PROJECT CLYDESDALE

SITE CIVIL PACKAGE

SPS ISSUE FOR CONSTRUCTION - ADDENDUM #1

04/09/26

TULSA COUNTY, OK

Project # 10434535

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416	1A-L-9602	IRRIGATION PLAN
417	1A-L-9603	IRRIGATION PLAN
418	1A-L-9604	IRRIGATION PLAN
419	1A-L-9605	IRRIGATION PLAN
420	1A-L-9606	IRRIGATION PLAN
421	1A-L-9610	IRRIGATION PLAN
422	1A-L-9611	IRRIGATION PLAN
423	1A-L-9612	IRRIGATION PLAN
424	1A-L-9613	IRRIGATION PLAN
425	1A-L-9614	IRRIGATION PLAN
426	1A-L-9617	IRRIGATION PLAN
427	1A-L-9618	IRRIGATION PLAN
428	1A-L-9619	IRRIGATION PLAN
429	1A-L-9620	IRRIGATION PLAN
430	1A-L-9621	IRRIGATION PLAN
431	1A-L-9622	IRRIGATION PLAN
432	1A-L-9625	IRRIGATION PLAN
433	1A-L-9626	IRRIGATION PLAN
434	1A-L-9627	IRRIGATION PLAN
435	1A-L-9628	IRRIGATION PLAN
436	1A-L-9629	IRRIGATION PLAN
437	1A-L-9630	IRRIGATION PLAN
438	1A-L-9633	IRRIGATION PLAN
439	1A-L-9634	IRRIGATION PLAN
440	1A-L-9635	IRRIGATION PLAN
441	1A-L-9636	IRRIGATION PLAN
442	1A-L-9637	IRRIGATION PLAN
443	1A-L-9643	IRRIGATION PLAN
444	1A-L-9644	IRRIGATION PLAN
445	1A-L-9658	IRRIGATION PLAN
446	1A-L-9666	IRRIGATION PLAN
447	1A-L-9667	IRRIGATION PLAN
448	1A-L-9668	IRRIGATION PLAN
449	1A-L-9670	IRRIGATION PLAN
450	1A-L-9700	IRRIGATION DETAILS
451	1A-L-9701	IRRIGATION DETAILS

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KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TITLE SHEET AND DRAWING INDEX

SCALE: N/A

SHEET NUMBER:
1A-C-0000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

KH GENERAL NOTES

OVERALL:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THESE PLANS, COUNTY STANDARD DETAILS AND SPECIFICATIONS, THE FINAL GEOTECHNICAL REPORT AND ALL ISSUED ADDENDA, AND COMMONLY ACCEPTED CONSTRUCTION STANDARDS. THE COUNTY SPECIFICATIONS SHALL GOVERN WHERE OTHER SPECIFICATIONS DO NOT EXIST. IN CASE OF CONFLICTING SPECIFICATIONS OR DETAILS, THE MORE RESTRICTIVE SPECIFICATION AND DETAIL SHALL BE FOLLOWED.
2. THE CONTRACTOR SHALL COMPLY WITH COUNTY "GENERAL NOTES" FOR CONSTRUCTION, IF EXISTING AND REQUIRED BY THE COUNTY. FOR INSTANCES WHERE THEY CONFLICT WITH THESE KH GENERAL NOTES, THEN THE MORE RESTRICTIVE SHALL APPLY.
3. THE CONTRACTOR SHALL FURNISH ALL MATERIAL AND LABOR TO CONSTRUCT THE FACILITY AS SHOWN AND DESCRIBED IN THE CONSTRUCTION DOCUMENTS IN ACCORDANCE WITH THE APPROPRIATE AUTHORITIES' SPECIFICATIONS AND REQUIREMENTS.
4. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.
5. THE EXISTING CONDITIONS SHOWN ON THESE PLANS WERE PROVIDED BY THE TOPOGRAPHIC SURVEY PREPARED BY THE PROJECT SURVEYOR, AND ARE BASED ON THE BENCHMARKS SHOWN. THE CONTRACTOR SHALL REFERENCE THE SAME BENCHMARKS.
6. THE CONTRACTOR SHALL REVIEW AND VERIFY THE EXISTING TOPOGRAPHIC SURVEY SHOWN ON THE PLANS REPRESENTS EXISTING FIELD CONDITIONS PRIOR TO CONSTRUCTION, AND SHALL REPORT ANY DISCREPANCIES FOUND TO THE OWNER AND ENGINEER IMMEDIATELY.
7. THE CONTRACTOR DOES NOT ACCEPT THE EXISTING TOPOGRAPHIC SURVEY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION. THEN THE CONTRACTOR SHALL SUPPLY AT THEIR OWN EXPENSE, A TOPOGRAPHIC SURVEY BY A REGISTERED PROFESSIONAL LAND SURVEYOR TO THE OWNER AND ENGINEER FOR REVIEW.
8. CONTRACTOR SHALL PROVIDE ALL CONSTRUCTION SURVEYING AND STAKING.
9. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL CONTROL, INCLUDING BENCHMARKS PRIOR TO COMMENCING CONSTRUCTION OR STAKING OF IMPROVEMENTS. PROPERTY LINES AND CORNERS SHALL BE HELD AS THE HORIZONTAL CONTROL.
10. THE CONTRACTOR SHALL REVIEW AND VERIFY ALL DIMENSIONS, ELEVATIONS, AND FIELD CONDITIONS THAT MAY AFFECT CONSTRUCTION. ANY DISCREPANCIES ON THE DRAWINGS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER BEFORE COMMENCING WORK. NO FIELD CHANGES OR DEVIATIONS FROM DESIGN ARE TO BE MADE WITHOUT PRIOR APPROVAL OF THE ARCHITECT, ENGINEER, AND IF APPLICABLE THE COUNTY AND OWNER. NO CONSIDERATION WILL BE GIVEN TO CHANGE ORDERS FOR WHICH THE COUNTY, ENGINEER, AND OWNER WERE NOT CONTACTED PRIOR TO CONSTRUCTION OF THE AFFECTED ITEM.
11. CONTRACTOR SHALL THOROUGHLY CHECK COORDINATION OF CIVIL, LANDSCAPE, MEP, ARCHITECTURAL, AND OTHER PLANS PRIOR TO COMMENCING CONSTRUCTION. OWNER/ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCY PRIOR TO COMMENCING WITH CONSTRUCTION.
12. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES WHICH MAY HAVE BURIED OR AERIAL UTILITIES WITHIN OR NEAR THE CONSTRUCTION AREA BEFORE COMMENCING WORK TO HAVE THEM LOCATE THEIR EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL PROVIDE AN ADEQUATE MINIMUM NOTICE TO ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION.
13. CONTRACTOR SHALL CALL OKLAHOMA 811 AN ADEQUATE AMOUNT OF TIME PRIOR TO COMMENCING CONSTRUCTION OR ANY EXCAVATION.
14. CONTRACTOR SHALL USE EXTREME CAUTION AS THE SITE CONTAINS VARIOUS KNOWN AND UNKNOWN PUBLIC AND PRIVATE UTILITIES.
15. THE LOCATIONS, ELEVATIONS, DEPTH, AND DIMENSIONS OF EXISTING UTILITIES SHOWN ON THE PLANS WERE OBTAINED FROM AVAILABLE UTILITY COMPANY MAPS AND PLANS, AND ARE CONSIDERED APPROXIMATE AND INCOMPLETE. IT SHALL BE THE CONTRACTORS' RESPONSIBILITY TO VERIFY THE PRESENCE, LOCATION, ELEVATION, DEPTH, AND DIMENSION OF EXISTING UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION SO THAT ADJUSTMENTS CAN BE MADE TO PROVIDE ADEQUATE CLEARANCES. THE ENGINEER SHALL BE NOTIFIED WHEN A PROPOSED IMPROVEMENT CONFLICTS WITH AN EXISTING UTILITY.
16. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING ANY ADJUSTMENTS AND RELOCATIONS OF EXISTING UTILITIES THAT CONFLICT WITH THE PROPOSED IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO, ADJUSTING EXISTING MANHOLES TO MATCH PROPOSED GRADE, RELOCATING EXISTING POLES AND GUY WIRES THAT ARE LOCATED IN PROPOSED DRIVEWAYS, ADJUSTING THE HORIZONTAL AND VERTICAL ALIGNMENT OF EXISTING UNDERGROUND UTILITIES TO ACCOMMODATE PROPOSED GRADE OR CROSSING WITH A PROPOSED UTILITY, AND ANY OTHERS THAT MAY BE ENCOUNTERED THAT ARE UNKNOWN AT THIS TIME AND NOT SHOWN ON THESE PLANS.
17. CONTRACTOR SHALL ARRANGE FOR OR PROVIDE, AT ITS EXPENSE, ALL GAS, TELECOMMUNICATIONS, CABLE, OVERHEAD AND UNDERGROUND POWER LINE, AND UTILITY POLE ADJUSTMENTS NEEDED.
18. CONTRACTOR IS RESPONSIBLE FOR COORDINATING INSTALLATION OF FRANCHISE UTILITIES THAT ARE NECESSARY FOR ON-SITE AND OFF-SITE CONSTRUCTION, AND SERVICE TO THE PROPOSED DEVELOPMENT.
19. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL DAMAGES DUE TO THE CONTRACTORS' FAILURE TO EXACTLY LOCATE AND PRESERVE ALL UTILITIES. THE OWNER OR ENGINEER WILL ASSUME NO LIABILITY FOR ANY DAMAGES SUSTAINED OR COST INCURRED BECAUSE OF THE INACCURACY OF EXISTING UTILITIES OR STRUCTURES. IF IT IS NECESSARY TO SHORE, BRACE, SWING OR RELOCATE A UTILITY, THE UTILITY COMPANY OR DEPARTMENT AFFECTED SHALL BE CONTACTED BY THE CONTRACTOR AND THEIR PERMISSION OBTAINED REGARDING THE METHOD TO USE FOR SUCH WORK.
20. BRACING OF UTILITY POLES MAY BE REQUIRED BY THE UTILITY COMPANIES WHEN TRENCHING OR EXCAVATING IN CLOSE PROXIMITY TO THE POLES. THE COST OF BRACING POLES WILL BE BORNE BY THE CONTRACTOR, WITH NO SEPARATE PAY ITEM FOR THIS WORK. THE COST IS INCIDENTAL TO THE PAY ITEM.
21. CONTRACTOR SHALL USE ALL NECESSARY CARE AND PRECAUTIONS TO AVOID CONTACT WITH OVERHEAD AND UNDERGROUND POWER LINES. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE LOCAL, STATE, FEDERAL AND UTILITY OWNER REGULATIONS PERTAINING TO WORK SETBACKS FROM POWER LINES.
22. THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED CONSTRUCTION PERMITS AND APPROVALS, PRIOR TO CONSTRUCTION.
23. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES A COPY OF THE CONTRACT DOCUMENTS INCLUDING PLANS, GEOTECHNICAL REPORT AND ADDENDA, PROJECT AND COUNTY SPECIFICATIONS, AND SPECIAL CONDITIONS, COPIES OF ANY REQUIRED CONSTRUCTION PERMITS, EROSION CONTROL PLANS, SWPPP AND INSPECTION REPORTS.
24. ALL SHOP DRAWINGS AND OTHER DOCUMENTS THAT REQUIRE ENGINEER REVIEW SHALL BE SUBMITTED BY THE CONTRACTOR SUFFICIENTLY IN ADVANCE OF CONSTRUCTION OF THAT ITEM, SO THAT NO LESS THAN 10 BUSINESS DAYS FOR REVIEW AND RESPONSE IS AVAILABLE.
25. ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY CODES, JURISDICTIONAL AGENCIES, AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO USE OF THE FACILITY AND THE FINAL CONNECTION OF SERVICES.
26. CONTRACTOR SHALL ARRANGE FOR REQUIRED COUNTY INSPECTIONS.
27. CONTRACTOR'S BID PRICE SHALL INCLUDE ALL INSPECTION FEES.
28. ALL SYMBOLS SHOWN ON THESE PLANS (I.E. FIRE HYDRANT, METERS, VALVES, INLETS, ETC...) ARE FOR PRESENTATION PURPOSES ONLY AND ARE NOT TO SCALE. CONTRACTOR SHALL COORDINATE FINAL SIZES AND LOCATIONS WITH APPROPRIATE COUNTY INSPECTOR.
29. THE SCOPE OF WORK FOR THE CIVIL IMPROVEMENTS SHOWN ON THESE PLANS TERMINATES 5-FEET FROM THE BUILDING. REFERENCE THE BUILDING PLANS (E.G. ARCHITECTURAL, STRUCTURAL, MEP) FOR AREAS WITHIN 5-FEET OF THE BUILDING AND WITHIN THE BUILDING FOOTPRINT.
30. REFER TO ARCHITECTURAL AND STRUCTURAL PLANS FOR ALL FINAL BUILDING DIMENSIONS.
31. THE PROPOSED BUILDING FOOTPRINT(S) SHOWN IN THESE PLANS WAS PROVIDED TO KIMLEY-HORN AND ASSOCIATES, INC. (KH) BY THE PROJECT ARCHITECT AT THE TIME THESE PLANS WERE PREPARED. IT MAY NOT BE THE FINAL CORRECT VERSION BECAUSE THE BUILDING DESIGN WAS ONGOING. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONFIRMING THE CORRECT VERSION OF THE BUILDING FOOTPRINT WITH THE ARCHITECT AND STRUCTURAL ENGINEER PRIOR TO LAYOUT. DIMENSIONS AND/OR COORDINATES SHOWN ON THESE PLANS WERE BASED ON THE ABOVE STATED ARCHITECTURAL BUILDING FOOTPRINT, AND ARE THEREFORE A PRELIMINARY LOCATION OF THE BUILDING. THE CONTRACTOR IS SOLELY RESPONSIBLE TO VERIFY WHAT PART OF THE BUILDING THE ARCHITECT'S FOOTPRINT REPRESENTS (E.G. SLAB, OUTSIDE WALL, MASONRY LEDGE, ETC.....) AND TO CONFIRM ITS FINAL POSITION ON THE SITE BASED ON THE FINAL ARCHITECTURAL FOOTPRINT CIVIL DIMENSION PLAN SURVEY BOUNDARY AND/OR PLAT. ANY DIFFERENCES FOUND SHALL BE REPORTED TO KH IMMEDIATELY.
32. ALL CONSTRUCTION SHALL COMPLY WITH THE PROJECT'S FINAL GEOTECHNICAL REPORT (OR LATEST EDITION), INCLUDING SUBSEQUENT ADDENDA.
33. CONTRACTOR IS RESPONSIBLE FOR ALL MATERIALS TESTING AND CERTIFICATION, UNLESS SPECIFIED OTHERWISE BY OWNER. ALL MATERIALS TESTING SHALL BE COORDINATED WITH THE APPROPRIATE COUNTY INSPECTOR AND COMPLY WITH COUNTY STANDARD SPECIFICATIONS AND GEOTECHNICAL REPORT. TESTING SHALL BE PERFORMED BY AN APPROVED INDEPENDENT AGENCY FOR TESTING MATERIALS. OWNER SHALL APPROVE THE AGENCY NOMINATED BY THE CONTRACTOR FOR MATERIALS TESTING.
34. ALL COPIES OF MATERIALS TEST RESULTS SHALL BE SENT TO THE OWNER, ENGINEER AND ARCHITECT DIRECTLY FROM THE TESTING AGENCY.
35. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO SHOW BY THE STANDARD TESTING PROCEDURES OF THE MATERIALS, THAT THE WORK CONSTRUCTED MEETS THE PROJECT REQUIREMENTS AND COUNTY SPECIFICATIONS.
36. DUE TO THE POTENTIAL FOR DIFFERENTIAL SOIL MOVEMENT ADJACENT TO THE BUILDING, THE CONTRACTOR SHALL ADHERE TO GEOTECHNICAL REPORT'S RECOMMENDATION FOR SUBGRADE PREPARATION SPECIFIC TO FLATWORK ADJACENT TO THE PROPOSED BUILDING. THE OWNER AND CONTRACTOR ARE ADVISED TO OBTAIN A GEOTECHNICAL ENGINEER RECOMMENDATION SPECIFIC TO FLATWORK ADJACENT TO THE BUILDING, IF NONE IS CURRENTLY EXISTING.
37. ALL CONTRACTORS MUST CONFINE THEIR ACTIVITIES TO THE WORK AREA. NO ENCROACHMENTS OUTSIDE OF THE WORK AREA WILL BE ALLOWED. ANY DAMAGE RESULTING THEREFROM SHALL BE CONTRACTOR'S SOLE RESPONSIBILITY TO REPAIR.
38. THE CONTRACTOR SHALL PROTECT ALL EXISTING STRUCTURES, UTILITIES, MANHOLES, LIDS, GUY WIRES, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, COMMUNICATION BOXES/PEDESTALS, AND OTHER FACILITIES TO REMAIN AND SHALL REPAIR ANY DAMAGES AT NO COST TO THE OWNER.
39. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY PHYSICAL DAMAGE TO PRIVATE PROPERTY OR PUBLIC IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO: FENCES, WALLS, SIGNS, PAVEMENT, CURBS, UTILITIES, SIDEWALKS, GRASS, TREES, LANDSCAPING, AND IRRIGATION SYSTEMS, ETC.... TO ORIGINAL CONDITION OR BETTER AT NO COST TO THE OWNER.
40. ALL AREAS IN EXISTING RIGHT-OF-WAY DISTURBED BY SITE CONSTRUCTION SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER, INCLUDING AS NECESSARY GRADING, LANDSCAPING, CULVERTS, AND PAVEMENT.
41. THE CONTRACTOR SHALL SALVAGE ALL EXISTING POWER POLES, SIGNS, WATER VALVES, FIRE HYDRANTS, METERS, ETC... THAT ARE TO BE RELOCATED DURING CONSTRUCTION.
42. CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION, INCLUDING MAINTAINING EXISTING DITCHES OR CULVERTS FREE OF OBSTRUCTIONS AT ALL TIMES.
43. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND SUBMITTING A TRENCH SAFETY PLAN, PREPARED BY A PROFESSIONAL ENGINEER IN THE STATE OF OKLAHOMA, TO THE COUNTY PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH COUNTY, STATE, AND FEDERAL REQUIREMENTS, INCLUDING OSHA FOR ALL TRENCHES. NO OPEN TRENCHES SHALL BE ALLOWED OVERNIGHT WITHOUT PRIOR WRITTEN APPROVAL OF THE COUNTY.
44. THE CONTRACTOR SHALL KEEP TRENCHES FREE FROM WATER.
45. SITE SAFETY IS SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
46. THESE PLANS DO NOT EXTEND TO OR INCLUDE DESIGNS OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE ENGINEER'S SEAL HEREON DOES NOT EXTEND TO SAFETY SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF ALL REQUIRED SAFETY PROCEDURES AND PROGRAMS.
47. SIGNS RELATED TO SITE OPERATION OR SAFETY ARE NOT INCLUDED IN THESE PLANS.
48. CONTRACTOR OFFICE AND STAGING AREA SHALL BE AGREED ON BY THE OWNER AND COUNTY PRIOR TO BEGINNING OF CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING REQUIREMENTS FOR THE CONSTRUCTION OFFICE, TRAILER, STORAGE, AND STAGING OPERATIONS AND LOCATIONS.
49. PER THE KH GENERAL NOTES, THESE PLANS SHALL NOT BE PLACED IN ACCESSIBLE ROUTES.
50. ALL SIGNS, PAVEMENT MARKINGS, AND OTHER TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MUTCD STANDARDS.
51. TOP RIM ELEVATIONS OF ALL EXISTING AND PROPOSED MANHOLES SHALL BE COORDINATED WITH TOP OF PAVEMENT OR FINISHED GRADE AND SHALL BE ADJUSTED TO BE FLUSH WITH THE ACTUAL FINISHED GRADE AT THE TIME OF PAVING.
52. CONTRACTOR SHALL ADJUST ALL EXISTING AND PROPOSED VALVES, FIRE HYDRANTS, AND OTHER UTILITY APPURTENANCES TO MATCH ACTUAL FINISHED GRADES AT THE TIME OF PAVING.
53. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SEQUENCING AND PHASING, AND SHALL CONTACT THE APPROPRIATE COUNTY OFFICIALS, INCLUDING BUILDING OFFICIAL, ENGINEERING INSPECTOR, AND FIRE MARSHALL TO LEARN OF ANY REQUIREMENTS.
54. CONTRACTOR IS RESPONSIBLE FOR PREPARATION, SUBMITTAL, AND APPROVAL BY THE COUNTY OF A TRAFFIC CONTROL PLAN PRIOR TO START OF CONSTRUCTION, AND THEN THE IMPLEMENTATION OF THE PLAN.
55. CONTRACTOR SHALL KEEP A NEAT AND ACCURATE RECORD OF CONSTRUCTION, INCLUDING ANY DEVIATIONS FROM THE PROJECT SHALL BE.
56. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AS-BUILT PLANS TO THE ENGINEER AND COUNTY IDENTIFYING ALL DEVIATIONS AND VARIATIONS FROM THESE PLANS MADE DURING CONSTRUCTION.

EROSION CONTROL

1. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL EROSION CONTROL AND WATER QUALITY REQUIREMENTS, LAWS, AND ORDINANCES THAT APPLY TO CONSTRUCTION ACTIVITIES ON THE SITE.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ODEQ FOR SITE DISCHARGE
3. THIS SITE IS CONSIDERED A HIGH PRIORITY SITE BY ODEQ AND THE CONTRACTOR SHALL IMPLEMENT ALL REQUIRED MEASURES REQUIRED FOR A HIGH PRIORITY SITE. EROSION CONTROL DEVICES SHOWN ON THE EROSION CONTROL PLAN FOR THE PROJECT SHALL BE INSTALLED BY THE START OF LAND DISTURBANCE. ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS FOR THE PROJECT.
4. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN, IMPLEMENTATION, MAINTENANCE, AND EFFECTIVENESS OF ALL EROSION CONTROL DEVICES, BEST MANAGEMENT PRACTICES (BMPS), AND FOR UPDATING THE EROSION CONTROL PLAN DURING CONSTRUCTION AS FIELD CONDITIONS CHANGE.
5. CONTRACTOR SHALL DOCUMENT THE DATES OF INSTALLATION, MAINTENANCE OR MODIFICATION, AND REMOVAL FOR EACH BMP IDENTIFIED IN THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE.
6. AS STORM SEWER INLETS ARE INSTALLED ON-SITE, TEMPORARY EROSION CONTROL DEVICES SHALL BE INSTALLED AT EACH INLET. REFER TO DETAILS.
7. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE AREA IT PROTECTS HAS BEEN PERMANENTLY STABILIZED.
8. CONTRACTOR SHALL INSPECT EROSION CONTROL DEVICES NEEDED DUE TO PROJECT PHASING.
9. CONTRACTOR SHALL OBSERVE THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES AND MAKE FIELD ADJUSTMENTS AND MODIFICATIONS AS NEEDED TO PREVENT SEDIMENT FROM LEAVING THE SITE. IF THE EROSION CONTROL DEVICES DO NOT EFFECTIVELY CONTROL EROSION, SEDIMENT, AND POLLUTANTS SUFFICIENTLY WASHING OFF THE SITE, THEN THE CONTRACTOR SHALL NOTIFY THE ENGINEER.
10. OFF-SITE SOIL BORROW, SPOIL, AND STORAGE AREAS (IF APPLICABLE) ARE CONSIDERED PART OF THE PROJECT SITE AND MUST COMPLY WITH THE EROSION CONTROL REQUIREMENTS FOR THIS PROJECT. THIS INCLUDES THE INSTALLATION OF BMP'S TO CONTROL EROSION AND SEDIMENTATION AND THE ESTABLISHMENT OF PERMANENT GROUND COVER ON DISTURBED AREAS PRIOR TO FINAL APPROVAL OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR MODIFYING THE SWPPP AND EROSION CONTROL PLAN TO INCLUDE BMPS FOR ANY OFF-SITE THAT ARE NOT ANTICIPATED AND SHOWN ON THE EROSION CONTROL PLAN.
11. ALL STAGING, STOCKPILES, SPOIL, AND STORAGE SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER RUNOFF. ADDITIONAL MEASURES SHALL BE PROVIDED IF NEEDED TO ACCOMPLISH THIS REQUIREMENT, SUCH AS COVERING OR ENCIRCLING THE AREA WITH AN APPROPRIATE BARRIER.
12. CONTRACTORS SHALL INSPECT ALL EROSION CONTROL DEVICES, BMPS, DISTURBED AREAS, AND VEHICLE ENTRY AND EXIT AREAS WEEKLY AND WITHIN 24 HOURS OF ALL RAINFALL EVENTS OF 0.5 INCHES OR GREATER, AND KEEP A RECORD OF THIS INSPECTION IN THE SWPPP BOOKLET IF APPLICABLE. TO VERIFY THE DEVICES AND EROSION CONTROL PLAN ARE FUNCTIONING PROPERLY.
13. CONTRACTOR SHALL CONSTRUCT A STABILIZED CONSTRUCTION ENTRANCE AT ALL 23. PRIMARY POINTS OF ACCESS IN ACCORDANCE WITH COUNTY SPECIFICATIONS. CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC USES THE STABILIZED ENTRANCE AT ALL INGRESS/EGRESS LOCATIONS.
14. SITE ENTRY AND EXITS SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT THE TRACKING AND FLOWING OF SEDIMENT AND DIRT ONTO OFF-SITE ROADWAYS. ALL SEDIMENT AND DIRT FROM THE SITE THAT IS DEPOSITED ONTO AN OFF-SITE ROADWAY SHALL BE REMOVED IMMEDIATELY.
15. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL SILT AND DEBRIS FROM THE AFFECTED OFF-SITE ROADWAYS THAT ARE A RESULT OF THIS CONSTRUCTION, AS REQUESTED BY OWNER AND COUNTY. AT A MINIMUM, THIS SHOULD OCCUR ONCE PER DAY FOR THE OFF-SITE ROADWAYS.
16. WHEN WASHING OF VEHICLES IS REQUIRED TO REMOVE SEDIMENT PRIOR TO EXITING THE SITE, IT SHALL BE DONE IN AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BMP.
17. CONTRACTOR SHALL INSTALL A TEMPORARY SEDIMENT BASIN FOR ANY ON-SITE DRAINAGE AREAS THAT ARE GREATER THAN 10 ACRES, PER ODEQ AND COUNTY STANDARDS. IF NO BASIN IS DESIGNED ON THE PROVIDED PLANS, A SEDIMENTATION BASIN ON THESE PLANS, THEN THE CONTRACTOR SHALL ARRANGE FOR AN APPROPRIATE DESIGN TO BE PROVIDED.
18. ALL FINES IMPOSED FOR SEDIMENT OR DIRT DISCHARGED FROM THE SITE SHALL BE PAID BY THE RESPONSIBLE CONTRACTOR.
19. WHEN SEDIMENT OR DIRT HAS CLOGGED THE CONSTRUCTION ENTRANCE VOID SPACES BETWEEN STONES OR DIRT IS BEING TRACKED ONTO A ROADWAY, THE AGGREGATE PAD MUST BE WASHED DOWN OR REPLACED. RUNOFF FROM THE WASH-DOWN OPERATION MUST BE ROUTED TO A SEDIMENT TRAP OR BASIN ON SITE WITHOUT FIRST FLOWING THROUGH ANOTHER BMP TO CONTROL SEDIMENTATION. PERIODIC RE-GRADING OR NEW STONE MAY BE REQUIRED TO MAINTAIN THE EFFECTIVENESS OF THE CONSTRUCTION ENTRANCE.
20. TEMPORARY SEEDING OR OTHER APPROVED STABILIZATION SHALL BE INITIATED WITHIN 14 DAYS OF THE LAST DISTURBANCE OF AREA. UNLESS ADDITIONAL CONSTRUCTION IN THE AREA IS EXPECTED WITHIN 21 DAYS OF THE LAST DISTURBANCE.
21. CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING CONSTRUCTION, ALWAYS CLEANING UP DIRT, LOOSE MATERIAL, AND TRASH AS CONSTRUCTION PROGRESSES.
22. UPON COMPLETION OF FINE GRADING, ALL SURFACES OF DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED. STABILIZATION IS ACHIEVED WHEN THE AREA IS EITHER COVERED BY PERMANENT IMPERVIOUS STRUCTURES, SUCH AS BUILDINGS, SIDEWALK, PAVEMENT, OR A UNIFORM PERENNIAL VEGETATIVE COVER.
23. AT THE CONCLUSION OF THE PROJECT, ALL INLETS, DRAIN PIPE, CHANNELS, DRAINAGEWAYS AND BORROW DITCHES AFFECTED BY THE CONSTRUCTION SHALL BE DREDGED, AND THE SEDIMENT GENERATED BY THE PROJECT SHALL BE REMOVED AND DISPOSED IN ACCORDANCE WITH APPLICABLE REGULATIONS.

STORM WATER DISCHARGE AUTHORIZATION:

1. CONTRACTOR SHALL COMPLY WITH ALL ODEQ AND EPA STORM WATER POLLUTION PREVENTION REQUIREMENTS.
2. CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE ODEQ GENERAL PERMIT TO DISCHARGE.
3. THE CONTRACTOR SHALL ENSURE THAT ALL PRIMARY OPERATORS SUBMIT A NOI TO ODEQ AT LEAST SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION (IF APPLICABLE), OR IF UTILIZING ELECTRONIC SUBMITTAL, PRIOR TO COMMENCING CONSTRUCTION. ALL PRIMARY OPERATORS SHALL PROVIDE A COPY OF THE SIGNED NOI TO THE OPERATOR OF ANY MS4 (TYPICALLY THE COUNTY) RECEIVING DISCHARGE FROM THE SITE.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE, INCLUDING POSTING THE SITE NOTICE, INSPECTIONS, DOCUMENTATION, AND SUBMISSION OF ANY INFORMATION REQUIRED BY THE ODEQ AND EPA (E.G. NOI).
5. ALL CONTRACTORS AND SUBCONTRACTORS PROVIDING SERVICES RELATED TO THE SWPPP SHALL SIGN THE CERTIFICATION STATEMENT CERTIFICATION AND ACKNOWLEDGING THEIR RESPONSIBILITIES AS SPECIFIED IN THE SWPPP.
6. A COPY OF THE SWPPP, INCLUDING NOI, SITE NOTICE, CONTRACTOR CERTIFICATIONS, AND ANY REVISIONS, SHALL BE SUBMITTED TO THE COUNTY BY THE CONTRACTOR AND SHALL BE RETAINED ON-SITE DURING CONSTRUCTION.
7. A NOTICE OF TERMINATION (NOT) SHALL BE SUBMITTED TO ODEQ BY ANY PRIMARY OPERATOR WITHIN 30 DAYS AFTER ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED AND A UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED ON ALL UNPAVED AREAS NOT COVERED BY PERMANENT STRUCTURES, A TRANSFER OF OPERATIONAL CONTROL HAS OCCURRED, OR THE OPERATOR HAS OBTAINED ALTERNATIVE AUTHORIZATION UNDER A DIFFERENT PERMIT. A COPY OF THE NOT SHALL BE PROVIDED TO THE OPERATOR OF ANY MS4 RECEIVING DISCHARGE FROM THE SITE.

DEMOLITION:

1. KH IS NOT RESPONSIBLE FOR THE MEANS AND METHODS EMPLOYED BY THE CONTRACTOR TO IMPLEMENT THIS DEMOLITION PLAN. THIS PRELIMINARY DEMOLITION PLAN SHOWS INDICATES THE KNOWN OBJECTS ON THE SUBJECT TRACT THAT ARE TO BE DEMOLISHED AND REMOVED FROM THE SITE.
2. KH DOES NOT WARRANT OR REPRESENT THAT THE PLAN, WHICH WAS PREPARED BASED ON SURVEY AND UTILITY INFORMATION PROVIDED BY OTHERS, SHOWS ALL IMPROVEMENTS AND UTILITIES, THAT THE IMPROVEMENTS AND UTILITIES ARE SHOWN ACCURATELY, OR THAT NO OTHER IMPROVEMENTS OR UTILITIES EXIST. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ITS OWN SITE RECONNAISSANCE TO SCOPE ITS WORK AND TO CONFIRM WITH THE OWNERS OF IMPROVEMENTS AND UTILITIES THE ABILITY AND PROCESS FOR THE REMOVAL OF THEIR FACILITIES.
3. THIS PLAN IS INTENDED TO GIVE A GENERAL GUIDE TO THE CONTRACTOR, NOTHING MORE. THE GOAL OF THE DEMOLITION IS TO LEAVE THE SITE IN A STATE SUITABLE FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS, AND TO PROVIDE PRESERVATION OF IMPROVEMENTS, UTILITIES, ETC. TO ACCOMPLISH THIS GOAL ARE THE RESPONSIBILITY OF THE CONTRACTOR.
4. CONTRACTOR IS STRONGLY CAUTIONED TO REVIEW THE FOLLOWING REPORTS DESCRIBING SITE CONDITIONS PRIOR TO BIDDING AND IMPLEMENTING THE DEMOLITION PLAN:
   a. ENVIRONMENTAL SITE ASSESSMENT PROVIDED BY THE OWNER.
   b. ASBESTOS BUILDING INSPECTION REPORT(S) PROVIDED BY THE OWNER,
   c. GEOTECHNICAL REPORT PROVIDED BY THE OWNER.
   d. OTHER REPORTS THAT ARE APPLICABLE AND AVAILABLE.
5. CONTRACTOR SHALL CONTACT THE OWNER TO VERIFY WHETHER ADDITIONAL REPORTS OR AMENDMENTS TO THE ABOVE CITED REPORTS HAVE BEEN PREPARED AND TO OBTAIN/REVIEW/AND COMPLY WITH THE RECOMMENDATION OF SUCH STUDIES PRIOR TO STARTING ANY WORK ON THE SITE.
6. CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS REGARDING THE DEMOLITION OF OBJECTS ON THE SITE AND THE DISPOSAL OF THE DEMOLISHED MATERIALS OFF-SITE. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO REVIEW THE SITE, DETERMINE THE APPLICABLE REGULATIONS, RECEIVE THE REQUIRED PERMITS AND AUTHORIZATIONS, AND COMPLY.
7. KH DOES NOT REPRESENT THAT THE REPORTS AND SURVEYS REFERENCED ABOVE ARE ACCURATE, COMPLETE, OR COMPREHENSIVE SHOWING ALL ITEMS THAT WILL NEED TO BE DEMOLISHED AND REMOVED.
8. CONTRACTOR SHALL NOT DEMOLISH ANY SUCH SURFACE OR STRUCTURE, AS ADDITIONAL LAYERS OF PAVEMENT, FOUNDATIONS OR WALLS, THAT ARE ALSO TO BE REMOVED.

GRADING:

1. THE CONTRACTOR AND GRADING SUBCONTRACTOR SHALL VERIFY THE SUITABILITY OF EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS BEFORE START OF CONSTRUCTION. THE CIVIL ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.
2. CONTRACTOR SHALL OBTAIN ALL GRADING PERMITS FROM THE COUNTY.
3. UNLESS OTHERWISE NOTED, PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN IN PAVED AREA REFLECT TOP OF PAVEMENT SURFACE. IN LOCATIONS ALONG A CURB LINE, ADD 6-INCHES (OR THE HEIGHT OF THE CURB) TO THE PAVING GRADE FOR TOP OF CURB ELEVATION.
4. PROPOSED SPOT ELEVATIONS AND CONTOURS OUTSIDE THE PAVEMENT ARE

ABBREVIATION — WORD

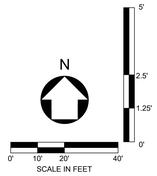
&	AND
@	AT
A	AREA
AGGR	AGGREGATE
APPD	APPROVED
APPROX	APPROXIMATE
ARV	AIR RELEASE VALVE
ASPH	ASPHALT
AUTH	AUTHORIZED
AVE	AVENUE
AVG	AVERAGE
AZ	AZIMUTH
B/	BOTTOM OF
BC	BOTTOM CHORD
BDY	BOUNDARY
BES	BEVELED END SECTION
BET.	BETWEEN
BFV	BUTTERFLY VALVE
BL	BASE LINE
BLDG	BUILDING
BM	BENCH MARK
BOT	BOTTOM
BP	BOOSTER PUMP
BPS	BOOSTER PUMP STATION
BPT	BOOSTER PUMP TANK
BRDG	BRIDGE
BRG	BEARING
BRK	BREAK
BS	BOTH SIDES
BV	BALL VALVE
BVC	BEGIN VERTICAL CURVE
C to C	CENTER TO CENTER
CALC	CALCULATE
CAT.	CATALOG
CB	CATCH BASIN
CC	CUBIC CENTIMETER
CD	CORD
CEM	CEMENT
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CG	CENTER OF GRAVITY
CHAM	CHAMFER
CHAN	CHANNEL
CHD	CHORD
CHK	CHECK
CI	CURB INLET
CIP	CAST-IN-PLACE
CIR	CIRCLE
CIR	CIRCULAR
CIRC	CIRCUMFERENCE
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
CO	CLEANOUT
CO	COMPANY
COL	COLUMN
COMB.	COMBINATION
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT
CONT	CONTINUOUS
CORP	CORPORATION
CR	CROSS
CTB	CHEMICAL TREATMENT BUILDING
CTD	COATED
CTR	CENTER
CU	CUBIC
CU FT	CUBIC FOOT
CU IN.	CUBIC INCH
CU M	CUBIC METER
CU YD	CUBIC YARD
CUR	CURRENT
CV	CHECK VALVE
CW	CLOCKWISE
XSECT	CROSS SECTION
DBC	DRAIN BASIN COVER
DBG	DRAIN BASIN GRATE
DEC	DECIMAL
DEG (OR °)	DEGREE
DEPT	DEPARTMENT
DET	DETAIL
DEV	DEVELOP
DFTG	DRAFTING
DI	DROP INLET
DI	DUCTILE IRON
DIA (OR ?)	DIAMETER
DIAG	DIAGONAL
DIM.	DIMENSION
DIP	DUCTILE IRON PIPE
DISCH	DISCHARGE
DIST	DISTANCE
DN	DOWN
DO	DITTO
DSGN	DESIGN
DWG	DRAWING
E	EAST
EA	EACH
EF	EACH FACE
EFF	EFFECTIVE
EJ	EXPANSION JOINT
ELEC	ELECTRIC
ELEV	ELEVATION
ELL	ELBOW
ENGR	ENGINEER
EPSC	EROSION PREVENTION AND SEDIMENT CONTROL
EQ	EQUAL
EQUIP. (OR EQ)	EQUIPMENT
EQUIV	EQUIVALENT
ES	EACH SIDE
EST	ESTIMATE
EW	EACH WAY
EX	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
F to F	FACE TO FACE
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FES	FLARED END SECTION
FF	FINISH FLOOR
FH	FIRE HYDRANT
FIG.	FIGURE
FIN.	FINISH
FL	FLOW LINE
FLD	FIELD
FLG	FLANGE
FLT	FILLET
FM	FORCE MAIN
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FR	FRONT
FREQ	FREQUENCY
FRP	FIBERGLASS REINFORCED PLASTIC
FT (OR ')	FEET
FWD	FORWARD
FWV	FIRE WATER VALVE
G	GRAVITY
GAL	GALLON
GALV	GALVANIZE
GEN	GENERATOR
GH	GROUND HYDRANT
GL	GRADE LINE
GPS	GENERATOR PARALLELING SYSTEM SWITCHGEAR
GR	GRADE
GRD	GROUND
HDPE	HIGH DENSITY POLYETHYLENE
HECP	HORIZONTAL ELLIPTICAL CONCRETE PIPE
HOR	HORIZONTAL
HP	HIGH POINT
HR	HOUR
HW	HEADWALL
HYD	HYDRAULIC
I	IRON
ID	INSIDE DIAMETER
IF	INSIDE FACE
IINT	INTERSECT
IN. (OR ")	INCH
INCL	INCLUDE
IND	INDUSTRIAL
INFO	INFORMATION
INV	INVERT
IPS	INCHES PER SECOND
JB	JUNCTION BOX
JCT	JUNCTION
LAT	LATITUDE
LB (OR #)	POUND
LT	LEFT
L.P.	LOW POINT
M	METER
MAN.	MANUAL
MATL	MATERIAL
MAX	MAXIMUM
MCP	MODULAR COOLING PLANT
MDA	MAIN DISTRIBUTION AREA
MDC	MAIN DISTRIBUTION - CRITICAL
MECH	MECHANICAL
MED	MEDIAN
MET.	METAL
MFR	MANUFACTURE
MH	MANHOLE
MI	MILES
MIN	MINIMUM
MIN (OR ')	MINUTE
MISC	MISCELLANEOUS
MOD	MODEL
MPH	MILE PER HOUR
MULT	MULTIPLE
MUWT	MAKE UP WATER TANK
N	NORTH
NEG	NEGATIVE
NIC	NOT IN CONTRACT
NO. (OR #)	NUMBER
NOM	NEUTRAL
NOR	NORMAL
NTS	NOT TO SCALE
O/C	ON CENTER
O/S	OFFSET
OA	OVERALL
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OHP	OVERHEAD POWER
OPNG	OPENING
OPP.	OPPOSITE
ORIG	ORIGINAL
OVF	OVERFLOW
PCO	PRESSURE CLEANOUT
PCW	PROCESS CHILLED WATER
PE	PIPE END
PERM	PERMANENT
PERP	PERPENDICULAR
PF	PROFILE
PFD	PREFERRED
PIV	POST-INDICATOR VALVE
PL	PROPERTY LINE
PMPT	PUMP HOUSE TURBO
PREP	PREPARE
PRESS.	PRESSURE
PROC	PROCESS
PROD	PRODUCTION
PROJ	PROJECT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PV	PLUG VALVE
PVI(E/S)	POINT OF VERTICAL INTERSECTION (ELVA. STA)
PWR	POWER
R	REDUCER
RR	RESTROOM
RECD	RECEIVED
REC	RECORD
REF	REFERENCE
REF L	REFERENCE LINE
RCP	REINFORCED CONCRETE PIPE
REINF	REINFORCING
REM	REMOVE
REQ	REQUIRE
REQD	REQUIRED
REV	REVISION(REVISED)
RJ	RESTRAINED JOINT
RRMP	RAILROAD MILE POST
RT	RIGHT
RH	RIGHT HAND
R/W	RIGHT OF WAY
S	SOUTH
SCH	SCHEDULE
SD	STORM DRAIN
SEC (OR ")	SECOND
SECT	SECTION
SHW	STRAIGHT HEADWALL
SIM	SIMILAR
SL	SEA LEVEL
SQ	SQUARE
SS	SANITARY SEWER
SSS	SECONDARY SUBSTATION SWITCHGEAR
STA	STATION
STD	STANDARD
SUR	SURFACE
SW	SIDEWALK
SY	SQUARE YARD
SYM	SYMBOL
T	
KIP	THOUSAND POUND
T/	TOP OF
TAN.	TANGENT
THK	THICK
TMH	TELECOMM MANHOLE
TOS	TOP OF STOOP/SLAB
TOT	TOTAL
TPR	TAPER
TYP	TYPICAL
U	UNIT
UNO	UNLESS NOTED OTHERWISE
UG	UNDERGROUND
USS	UNIT SUBSTATION
UTC	gCUB PIPE CORRIDOR
V	VALVE
VAR	VARIABLE
VERT	VERTICAL
VOL	VOLUME
W	WEST
W	WIDTH
W/	WITH
WT	WEIGHT
Y	YARD
YD	YARD HYDRANT
YH	YARD INLET
YI	YEAR
YR	

MECHANICAL YARD ABBREVIATIONS

BPS	BOOSTER PUMP STATION
CAS	COOLING TOWER ACCESS STAIR
CTP	CHEMICAL TREATMENT PLANT
CTR	COOLING TOWER
CTS	COOLING TOWER STRUCTURE
DC	DATA CENTER
GEN	GENERATOR
gRESTROOM	gCUB MECHANICAL YARD RESTROOM
gREFUGE ROOM	gCUB MECHANICAL YARD REFUGE ROOM
MCP	MODULAR COOLING PLANT
MUPT	MAKE-UP PUMPHOUSE TURBO
MWT	MAKE-UP WATER TANK
PCB	PIPE CONVEYANCE BRIDGE
PCS	PIPE CONVEYANCE STRUCTURE
PDC	POWER DISTRIBUTION CENTER
USS	UNIT SUBSTATION
WPT	MAKE-UP WATER PRE-TREATMENT

GENERAL SYMBOLOGY

NORTH ARROW & SCALE



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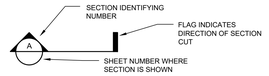

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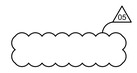

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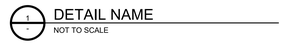
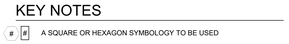
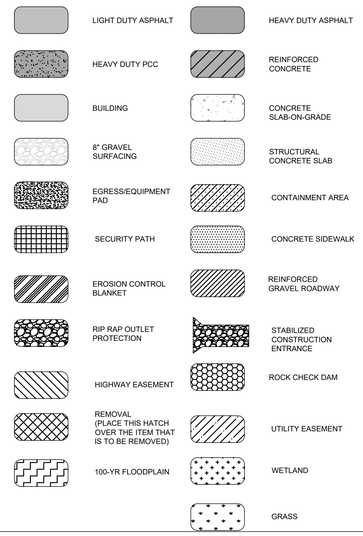


* EXCEPTIONS WHERE THE SHEET NUMBER IS REPLACED BY A DASH (-).
1) FOR COMMON DETAILS, SECTIONS, ELEVATIONS OR DETAILS THAT ARE CUT OR CALLED OUT ON MULTIPLE SHEETS.
2) SECTIONS, ELEVATIONS OR DETAILS THAT ARE LOCATED ON THE SAME SHEET WHERE THEY ARE CUT OR CALLED OUT ON.

KEY NOTES



HATCHES



STRUCTURE/FITTING/APPURTENANCES NAMING CONVENTIONS

PHASE - SYSTEM - TYPE - NUMBER (XX - XX - XXX - XXXX)

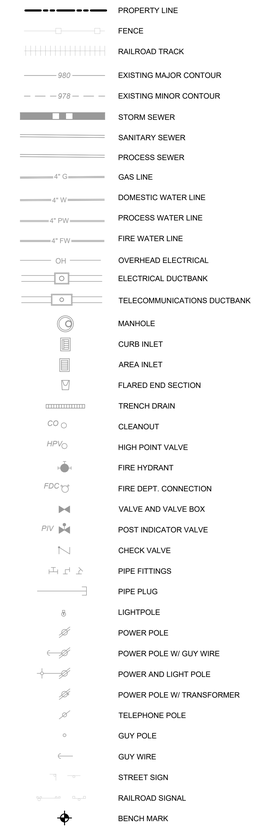
TYPE	DESCRIPTION
AI	AREA INLET
ARV	AIR RELEASE VALVE
BD	BEND
BX	DRAIN BOX
CB	CATCH BASIN
CC	CONCRETE COLLAR
CI	CURB INLET
CO	CLEANOUT
CR	CROSS
DI	DROP INLET
DR	DEWATERING RISER
EMH	ELECTRIC MANHOLE
FDC	FIRE DEPARTMENT CONNECTION
FES	FLARED END SECTION
FWV	FIRE WATER VALVE
GH	GROUND HYDRANT
GV	GAS VALVE
HH	HANDHOLE
HW	HEADWALL
HYD	HYDRANT
MH	MANHOLE
PIV	POST INDICATOR VALVE
PV	PLUG VALVE
PRV	PRESSURE RELEASE VALVE
R	REDUCER
SG	SLUICE GATE
ST	PIPE STUB
T	TEE
TD	TRENCH DRAIN
TMH	TELECOM MANHOLE
WV	WATER VALVE

PIPE/PRESSURE PIPE NAMING CONVENTIONS

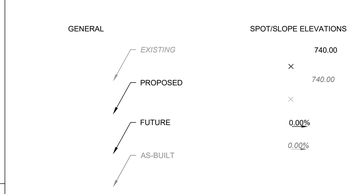
BUILDING CODE - SYSTEM - NUMBER (XX - XX - XXXX)

SYSTEM	DESCRIPTION
TC	TELECOMMUNICATIONS
FW	FIRE WATER
ST	STORM WATER
EL	ELECTRICAL
NG	NATURAL GAS
PS	PROCESS SEWER
SS	SANITARY SEWER
DW	DOMESTIC WATER
PW	PROCESS WATER

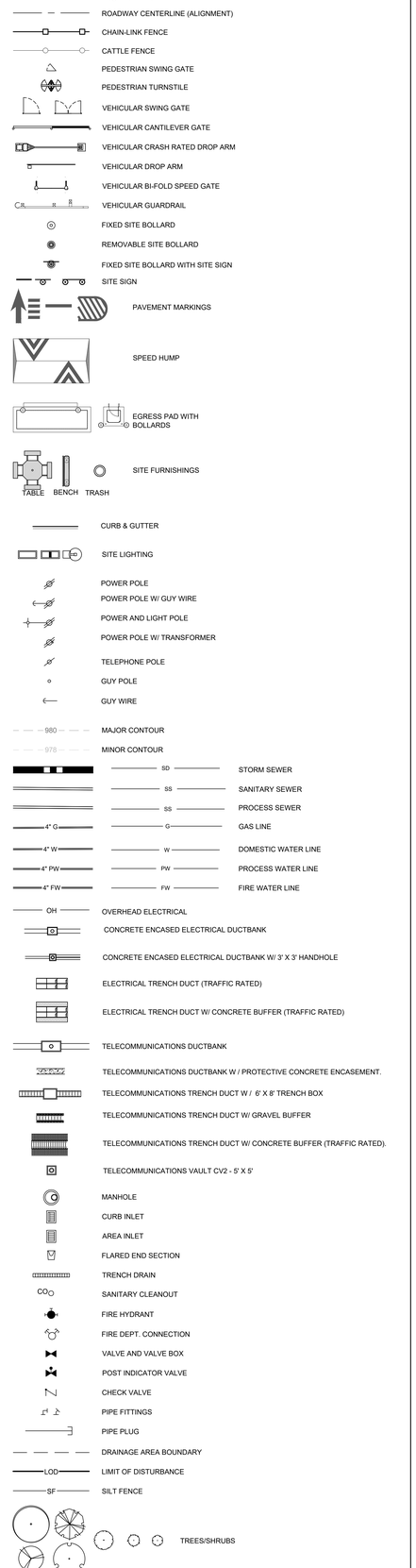
EXISTING LEGEND



PLAN LABELS



PROPOSED LEGEND



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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

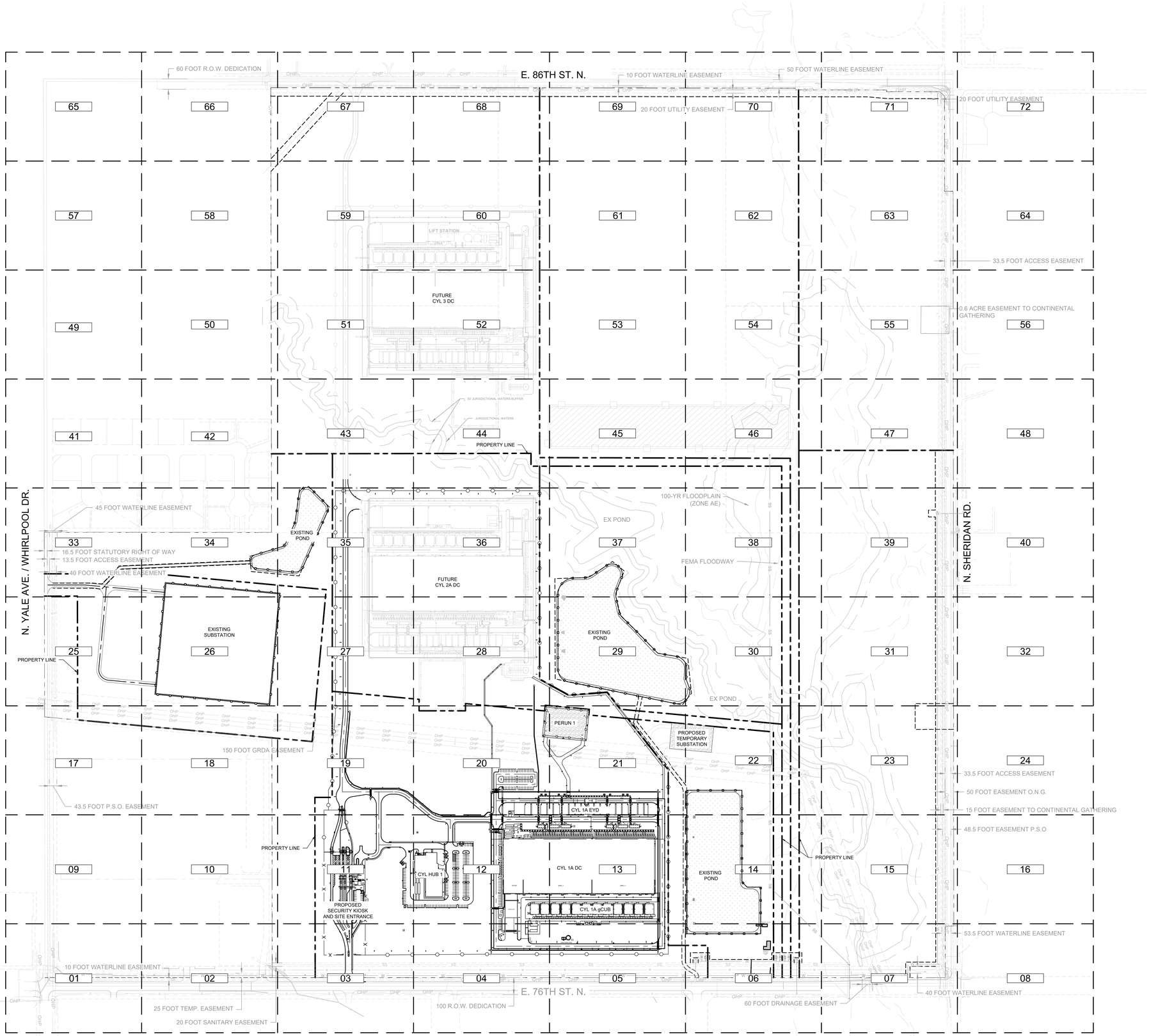
PROJ. NO.: 10434535

LEGEND AND ABBREVIATIONS

SCALE: N/A

SHEET NUMBER:
1A-C-0002

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

PROJECT PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-0003

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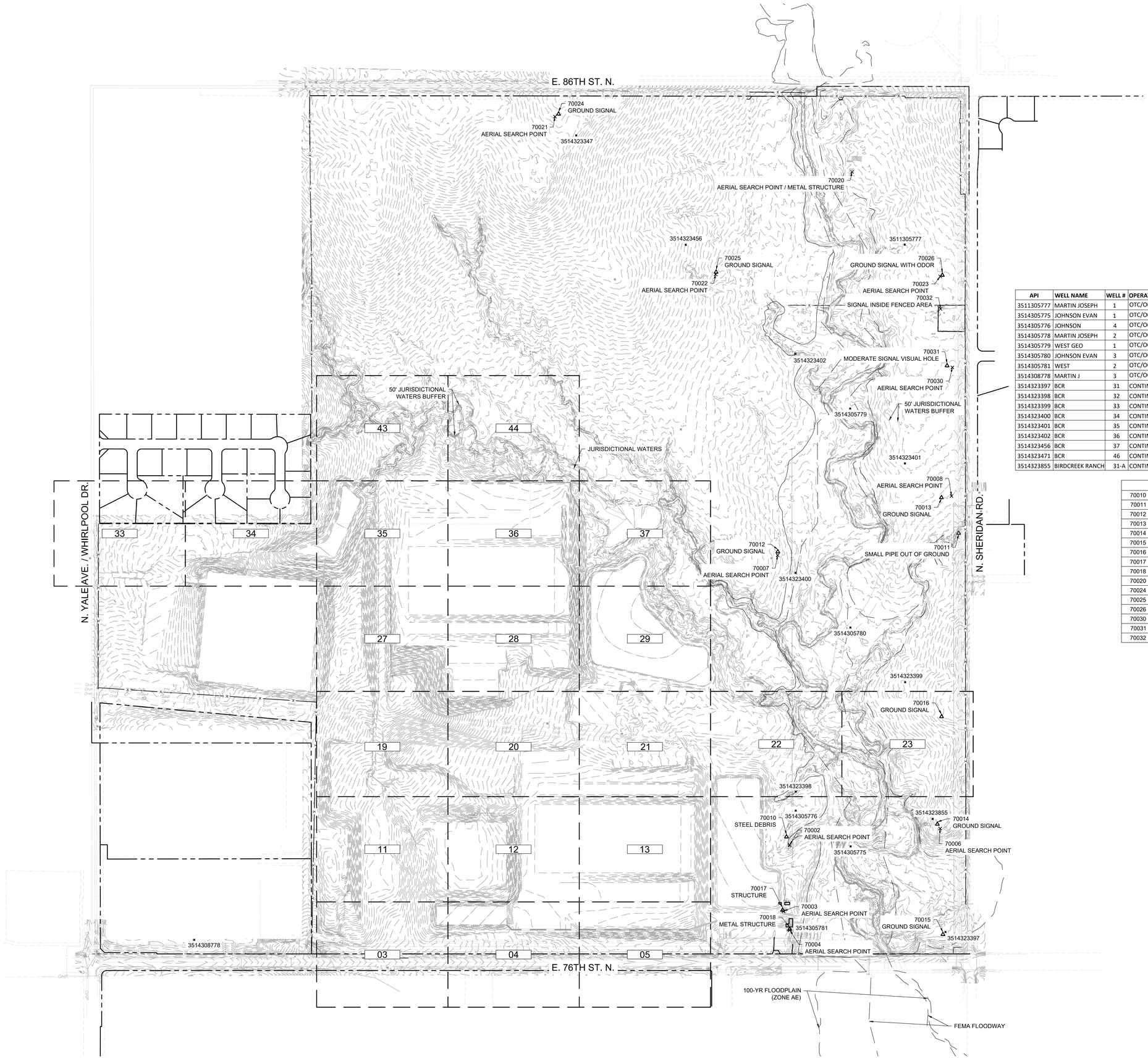

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (980)
- EXISTING MINOR CONTOUR (978)
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP

API	WELL NAME	WELL #	OPERATOR	LATTITUDE	LONGITUDE	SYMBOL - CLASS
3511305777	MARTIN JOSEPH	1	OTC/OCC NOT ASSIGNED	36.265988	-95.904409	PLUGGED
3514305775	JOHNSON EVAN	1	OTC/OCC NOT ASSIGNED	36.275958	-95.903290	PLUGGED
3514305776	JOHNSON	4	OTC/OCC NOT ASSIGNED	36.268707	-95.905530	GAS
3514305778	MARTIN JOSEPH	2	OTC/OCC NOT ASSIGNED	36.268706	-95.947731	PLUGGED
3514305779	WEST GEO	1	OTC/OCC NOT ASSIGNED	36.273239	-95.904409	GAS
3514305780	JOHNSON EVAN	3	OTC/OCC NOT ASSIGNED	36.269613	-95.904409	PLUGGED
3514305781	WEST	2	OTC/OCC NOT ASSIGNED	36.275958	-95.905529	PLUGGED
3514308778	MARTIN J	3	OTC/OCC NOT ASSIGNED	36.269612	-95.917841	OTHER
3514323397	BCR	31	CONTINENTAL ENERGY OPERATING LLC	36.264567	-95.902470	PLUGGED
3514323398	BCR	32	CONTINENTAL ENERGY OPERATING LLC	36.266894	-95.905530	PLUGGED
3514323399	BCR	33	CONTINENTAL ENERGY OPERATING LLC	36.268707	-95.903290	PLUGGED
3514323400	BCR	34	CONTINENTAL ENERGY OPERATING LLC	36.270520	-95.905530	PLUGGED
3514323401	BCR	35	CONTINENTAL ENERGY OPERATING LLC	36.272333	-95.903290	PLUGGED
3514323402	BCR	36	CONTINENTAL ENERGY OPERATING LLC	36.274145	-95.905530	PLUGGED
3514323456	BCR	37	CONTINENTAL ENERGY OPERATING LLC	36.275958	-95.907770	PLUGGED
3514323471	BCR	46	CONTINENTAL ENERGY OPERATING LLC	36.277771	-95.910010	PLUGGED
3514323855	BIRDCREEK RANCH	31-A	CONTINENTAL ENERGY OPERATING LLC	36.266441	-95.902730	PLUGGED

MAGNETOMETER SURVEY ANOMALY LOCATIONS

70010	467549.7877	2585853.7450	STEEL DEBRIS
70011	469402.7872	2586854.5940	SMALL PIPE OUT OF GROUND
70012	469267.8549	2585766.3220	GROUND SIGNAL
70013	469615.2765	2586746.2610	GROUND SIGNAL
70014	467645.4732	2586762.1650	GROUND SIGNAL
70015	466981.1843	2586809.5070	GROUND SIGNAL
70016	468294.1756	2586774.2090	GROUND SIGNAL
70017	467107.7209	2585839.5360	STRUCTURE
70018	466993.3865	2585884.1070	METAL STRUCTURE
70020	471567.8730	2586166.3100	AERIAL SEARCH POINT/METAL STRUCTURE
70024	471880.1644	2584389.5810	GROUND SIGNAL
70025	470946.5757	2585359.1930	GROUND SIGNAL
70026	470956.4115	2586723.8170	GROUND SIGNAL WITH ODOR
70030	470401.4279	2586795.9670	AERIAL SEARCH POINT
70031	470410.8087	2586763.7820	MODERATE SIGNAL VISUAL HOLE
70032	470752.5053	2586717.4890	SIGNAL INSIDE FENCED AREA

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1000 EXISTING CONDITIONS AND DEMOLITION PLAN - OVERALL 6/19/2025 4:58 PM

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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEMA RANDALL — 27621 — OKLAHOMA — 04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS AND DEMOLITION PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1111

MATCHLINE SEE SHEET 1A-C-1104

20.00 SANITARY SEWER EASEMENT

EX. SSMH
TR=665.42
SHELF=655.97
FL(E)=655.32
FL(W)=655.27

EXISTING RIPRAP

EXISTING STORM SEWER HEADWALL
TOP OF HEADWALL = 662.65
FL = 650.80

10.00 WATERLINE EASEMENT

EXISTING CURB

EXISTING GUTTER

EXISTING 48" RCP STORM SEWER PIPE

REMOVE CHECK DAM

EXISTING 12" SANITARY SEWER LINE

EXISTING 48" WATERLINE

EX. SSMH
TR=661.72
SHELF=654.48
FL(E,W)=653.97

REMOVE CHECK DAM

40.00 WATER EASEMENT

REMOVE BARBED WIRE FENCE

REMOVE CHECK DAM

25.00 TEMPORARY EASEMENT

EXISTING 15" CMP STORM SEWER PIPE

REMOVE CHECK DAM

RELOCATE EXISTING STORM SEWER INLET

SAWCUT AND REMOVE EXISTING CURBS AND ASPHALT FULL DEPTH

E. 76TH ST. N.

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

EXISTING UNDERGROUND TELECOM LINES

EXISTING UNKNOWN EMPTY MANHOLE

EXISTING WATER METER VAULT

EXISTING UNKNOWN EMPTY MANHOLE

REMOVE CHECK DAM

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

NOTES

1. CONTRACTOR TO INSTALL ALL REQUIRED INITIAL EPSC MEASURES PER PLANS PRIOR TO ANY DEMOLITION OR CLEARING AND GRUBBING
2. NO IMPACTS TO ANY IDENTIFIED JURISDICTIONAL ENVIRONMENTAL FEATURES OF ANY KIND IS PERMITTED UNTIL APPROVAL BY ODEQ AND USACE.
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4. FEATURES BEYOND THE LIMITS OF DISTURBANCE (LOD) AND WITHIN THE LOD, UNLESS IDENTIFIED FOR REMOVAL ON THE PLANS, SHALL BE PROTECTED IN PLACE (PIP) BY THE CONTRACTOR FOR THE DURATION OF THE WORK.
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6. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS AND GUIDELINES OF THE EROSION CONTROL PLAN AND SITE SWPPP.
7. WHERE EXISTING GRADE IS AT A SLOPE STEEPER THAN ONE UNIT VERTICAL IN FIVE UNITS HORIZONTAL (20-PERCENT SLOPE) AND THE DEPTH OF THE FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED.
8. CONTRACTOR TO SEE ABBREVIATIONS LIST (SEE SHEET 1A-C-0002), FOR CLARIFICATION.
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10. REFER TO THE TABLES ON OVERALL SHEET 1A-C-1000 FOR THE POTENTIAL LOCATIONS OF EXISTING WELLS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF EXISTING WELLS PRIOR TO CONSTRUCTION AND EXCAVATE WITH CAUTION IN THE AREA. ANY WELL CAPS THAT ARE DAMAGED OR REMOVED DUE TO EXCAVATION SHALL BE REPLACED PER STATE STANDARDS AND PERMITTED ACCORDINGLY.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\0600057900_CYL\Project Files\00_Civil\SPS\03_Production-DWG\SICYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1103

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1112

MATCHLINE SEE SHEET 1A-C-1103

MATCHLINE SEE SHEET 1A-C-1105

MG-ST-HW-001
RIM: 634.60
INV OUT: 629.68 (96" SE)

41 LF 8' X 4' RCB @ 0.80%

MG-ST-BD-001
RIM: 634.47
INV IN: 629.35 (96" NW)
INV OUT: 629.35 (96" E)

20.00 SANITARY SEWER EASEMENT

EX. SSMH
TR=648.47
SHELF=642.42
FL(E)=641.77
FL(W)=641.87

40.00 WATER EASEMENT

EXISTING FIREHYDRANT

EXISTING 12" SANITARY SEWER LINE

EX. SSMH
TR=637.58
SHELF=631.58
FL(E)=630.90
FL(W)=630.98

EXISTING 48" WATERLINE

EXISTING GATE TO BE REMOVED

EXISTING BARBED WIRE FENCE TO BE REMOVED

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING POWER POLE (TYP.)

EXISTING UNDERGROUND TELECOM LINES

10.00 WATERLINE EASEMENT

EXISTING 15" CMP STORM SEWER PIPE

EXISTING STORM SEWER INLET

EXISTING CURB

EXISTING GUTTER

EXISTING 15" CMP STORM SEWER PIPE

EXISTING STORM SEWER INLET

EXISTING 24" CMP STORM SEWER PIPE

E. 76TH ST. N.

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\9600579O0_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1104

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1113

MATCHLINE SEE SHEET 1A-C-1104

REMOVE EXISTING RIP RAP

REMOVE EXISTING RIP RAP

REMOVE CHECK DAM

EXISTING GRAVEL ROAD

REMOVE CHECK DAM

200 LF 8' X 4' RCB @ 0.80%

MG-ST-BD-002
RIM: 625.96
INV IN: 620.84 (96" W)
INV OUT: 620.84 (96" E)

635

635

640

1067 LF 8' X 4' RCB @ 0.80%

EXISTING 12" SANITARY SEWER LINE

625

625

EX. SSMH
TR=627.07
SHELF=620.42
FL(E)=620.67
FL(W)=620.77

20.00 SANITARY SEWER EASEMENT

40.00 WATER EASEMENT

EX. SSMH
TR=626.20
SHELF=618.40
FL(E)=617.70
FL(W)=617.80

EXISTING 48" WATERLINE

625

BARBED WIRE FENCE TO BE REMOVED

EXISTING TELECOM STRUCTURES

EXISTING UNDERGROUND TELECOM LINES

EXISTING UNDERGROUND TELECOM LINE

EXISTING POWER POLE (TYP.)

EXISTING TELECOM STRUCTURE

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING STORM SEWER LINE

10.00 WATERLINE EASEMENT

EXISTING TRAFFIC SIGNAL

EXISTING STORM SEWER LINE

EXISTING CURB

EXISTING GUTTER

EXISTING STORM SEWER INLET

EXISTING STORM SEWER INLET

E. 76TH ST. N.

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

EXISTING TELECOM STRUCTURES

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
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- OCC LOCATIONS
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

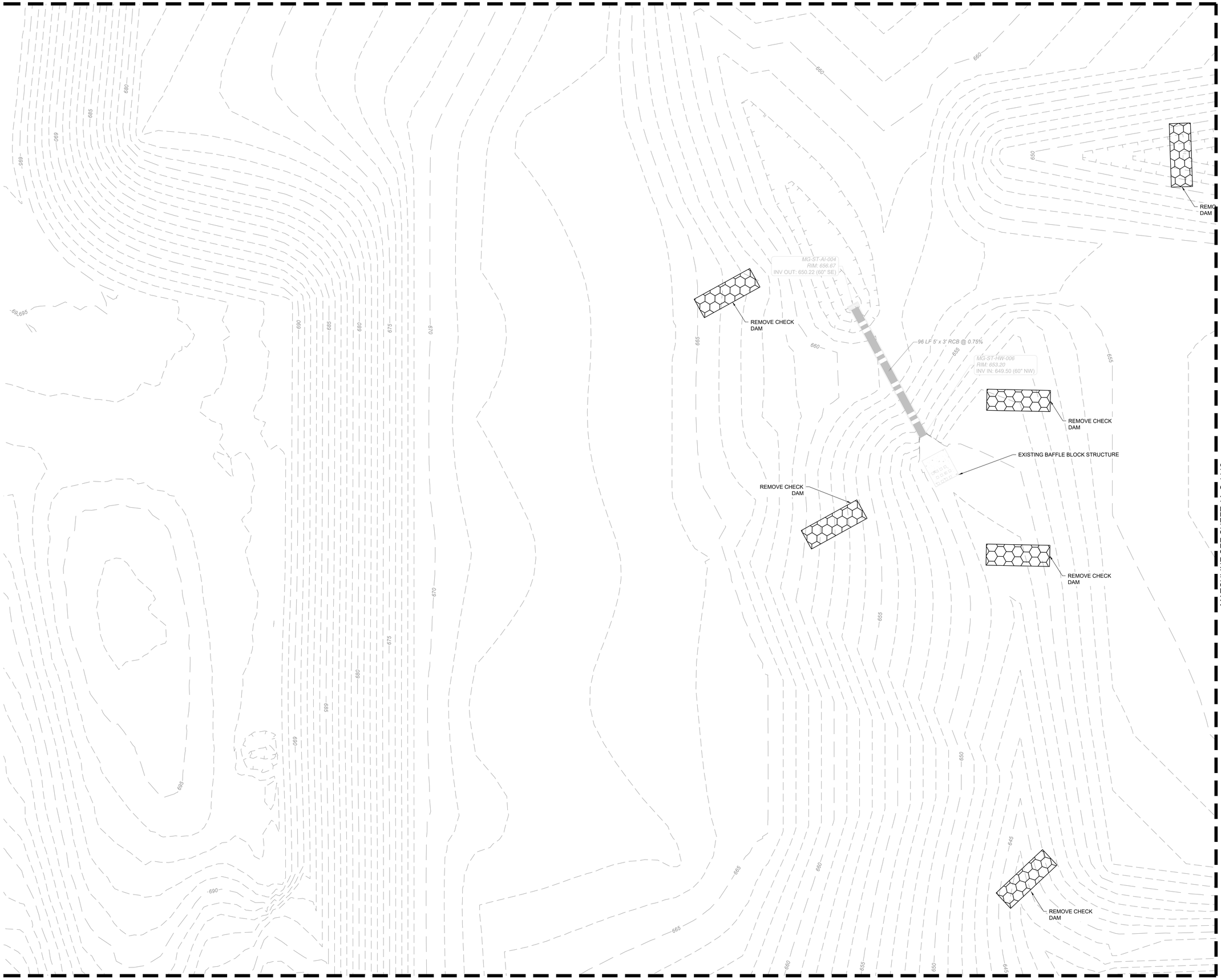
EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1105

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1119



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
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- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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MATCHLINE SEE SHEET 1A-C-1112

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

REGISTERED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1120

MATCHLINE SEE SHEET 1A-C-1111

MATCHLINE SEE SHEET 1A-C-1113

84 LF 5' x 3' RCB @ 2.04%

EXISTING BAFFLE BLOCK STRUCTURE

EXISTING BAFFLE BLOCK STRUCTURE

MG-ST-HW-004
RIM: 637.49

113 LF 24" CPP @ 3.11%

MG-ST-HW-005
RIM: 643.81
INV OUT: 641.25 (24" E)

MG-ST-PCES-002
RIM: 640.26
INV IN: 637.76 (24" W)

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

EXISTING CONCRETE SIDEWALK

EXISTING CONCRETE PILOT CHANNEL

655 650 645 640 635

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1112

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1121

MATCHLINE SEE SHEET 1A-C-1112

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 8/28/2025 9:55 AM

635

635

REMOVE CHECK DAM

635

REMOVE EXISTING RIP RAP

635

630

625

EXISTING GRAVEL ROAD

REMOVE EXISTING RIP RAP

REMOVE CHECK DAM

635

REMOVE CHECK DAM

635

635

630

625

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

NOTES

1. CONTRACTOR TO INSTALL ALL REQUIRED INITIAL EPSC MEASURES PER PLANS PRIOR TO ANY DEMOLITION OR CLEARING AND GRUBBING
2. NO IMPACTS TO ANY IDENTIFIED JURISDICTIONAL ENVIRONMENTAL FEATURES OF ANY KIND IS PERMITTED UNTIL APPROVAL BY ODEQ AND USACE.
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N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

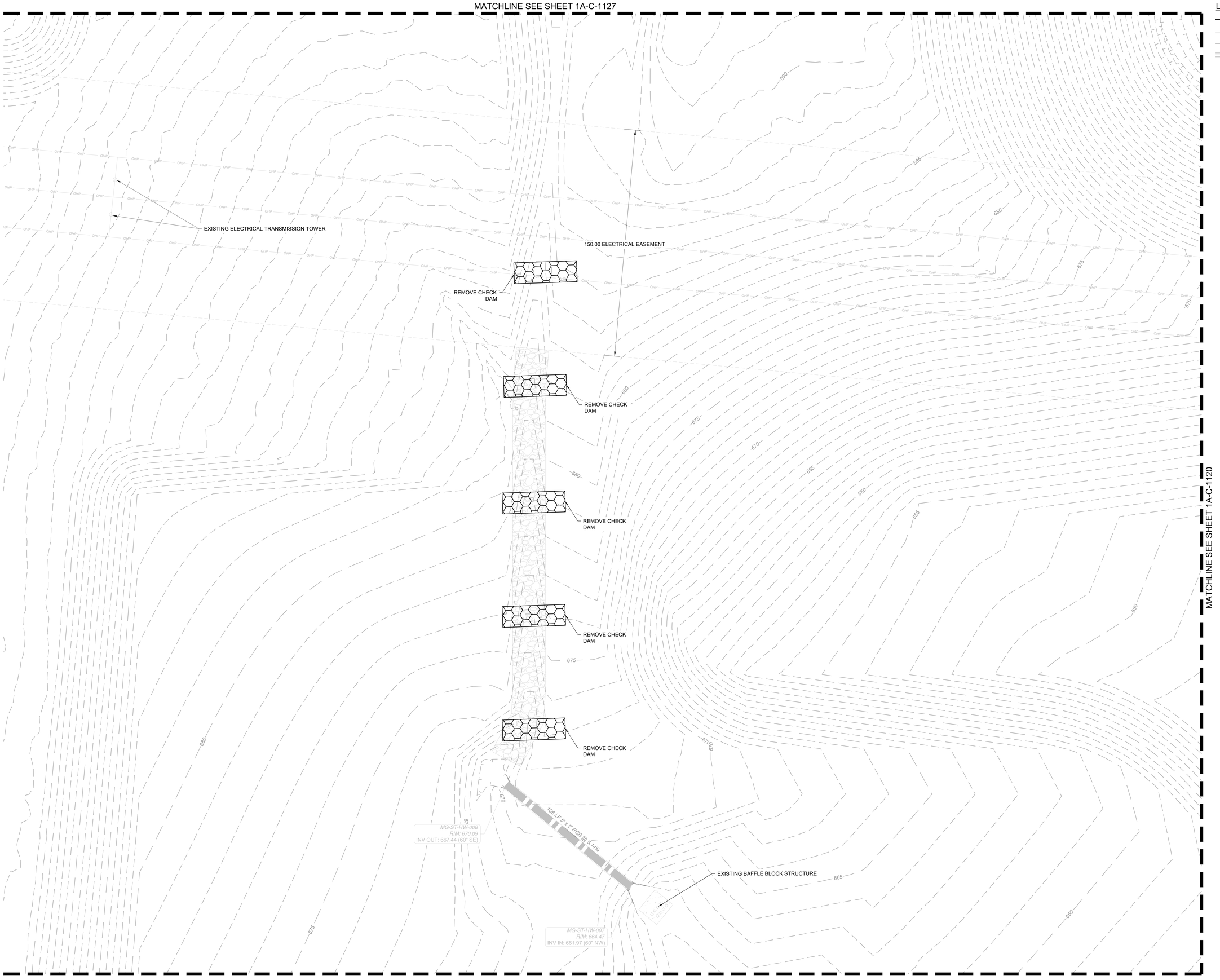
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32621
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1119

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1128

MATCHLINE SEE SHEET 1A-C-1119

MATCHLINE SEE SHEET 1A-C-1121

MG-ST-AI-001
RIM: 644.11
INV OUT: 635.56 (30" NE)

EXISTING ELECTRICAL TRANSMISSION TOWER

150.00 ELECTRICAL EASEMENT

REMOVE CHECK DAM

MG-ST-HW-003
RIM: 639.20
INV OUT: 635.50 (60" S)

LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\9600579\00_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

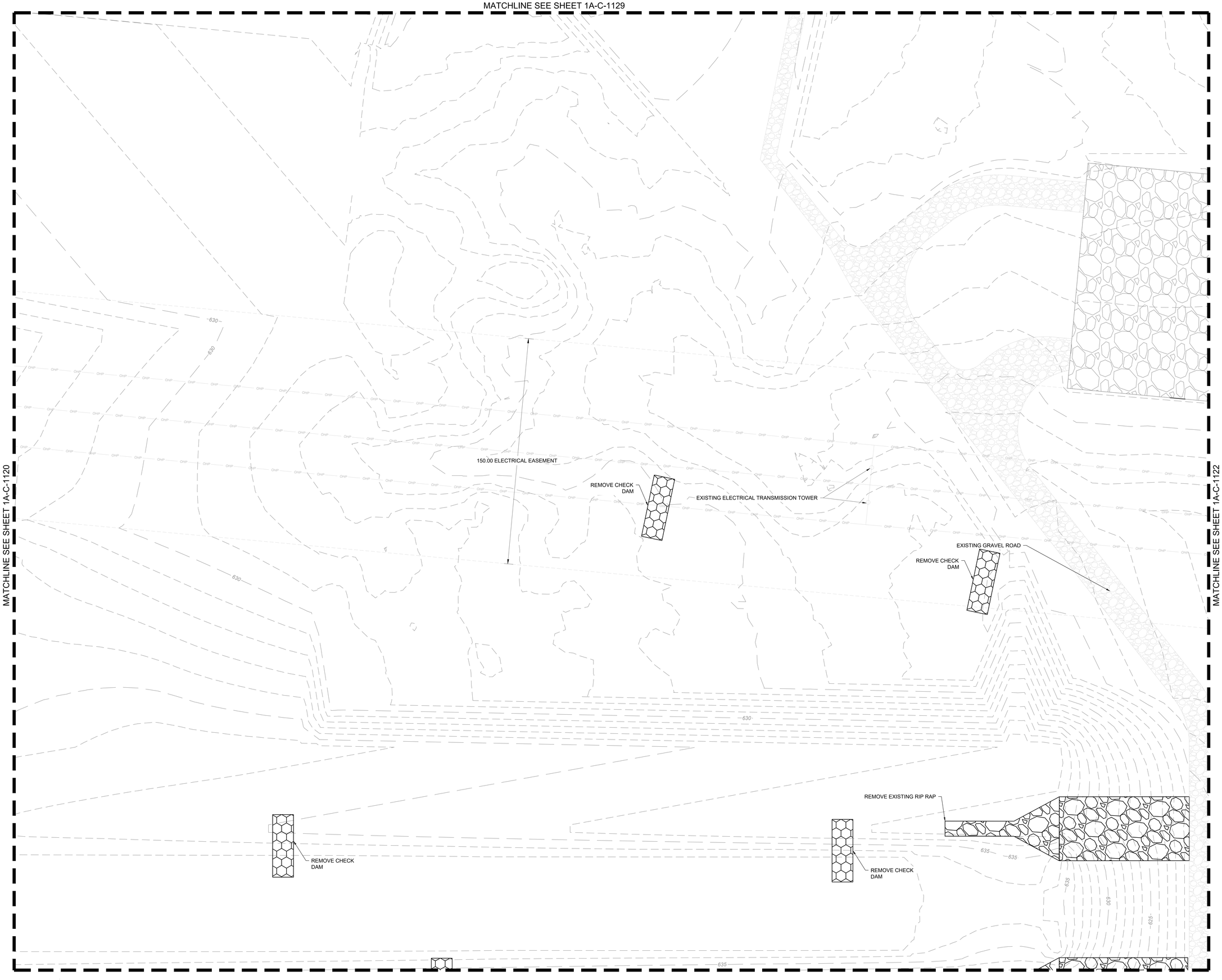
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
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C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1101 EXISTING AND DEMOLITION PLAN 6/26/2025 9:55 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

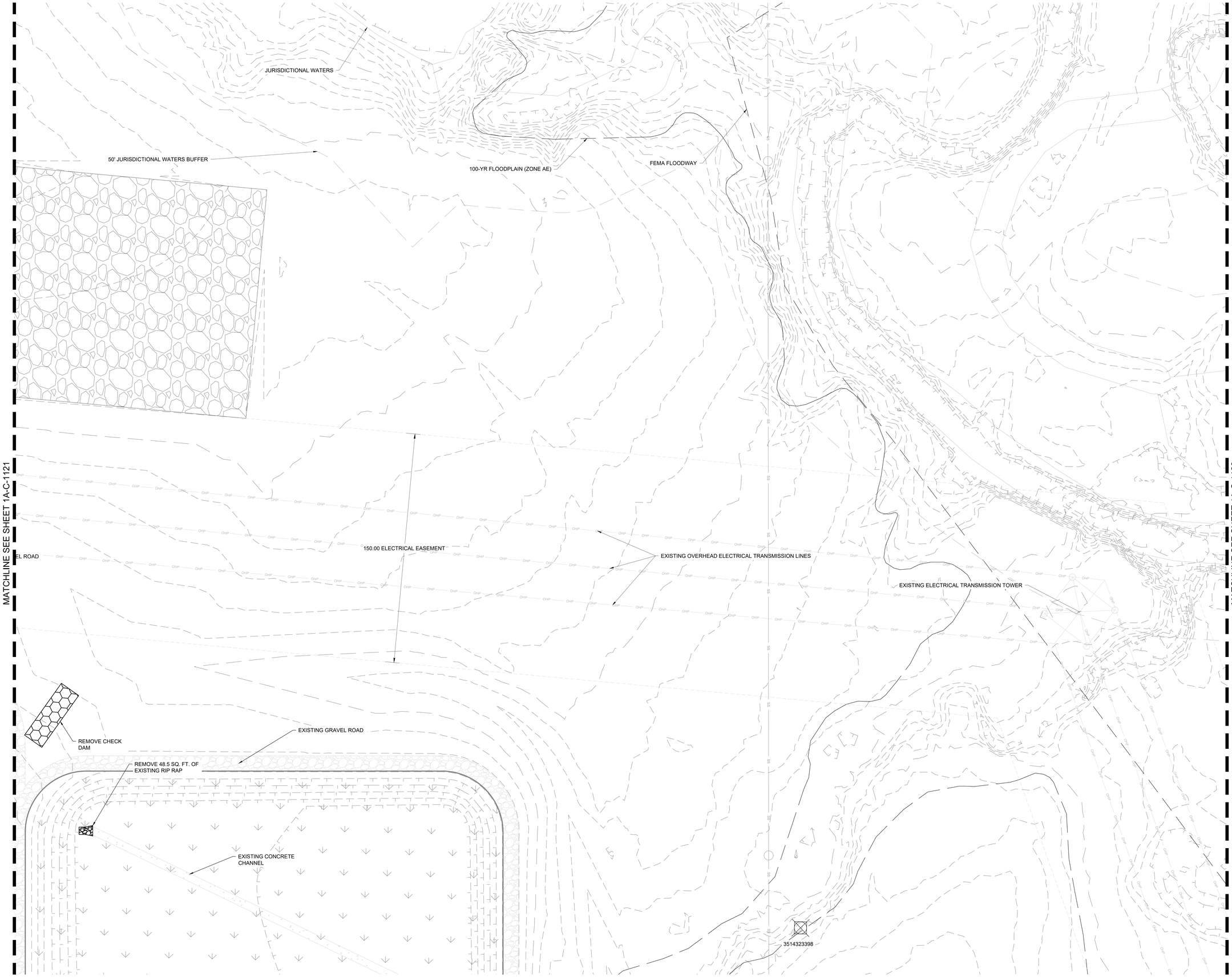
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1106 EXISTING AND DEMOLITION PLAN 6/18/2025 12:21 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1106 EXISTING AND DEMOLITION PLAN 6/18/2025 12:21 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
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04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1123
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1135

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

REMOVE CHECK DAM

EXISTING RETAINING WALL

MATCHLINE SEE SHEET 1A-C-1128

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1125 EXISTING AND DEMOLITION PLAN 6/18/2025 2:24 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1127

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1136

MATCHLINE SEE SHEET 1A-C-1127

MATCHLINE SEE SHEET 1A-C-1129

REMOVE CHECK DAM

REMOVE CHECK DAM

239 LF 30" CPP @ 2.66%

327 LF 30" CPP @ 2.82%

MG-ST-MH-001
RIM: 640.08
INV IN: 626.35 (30" SW)
INV OUT: 626.35 (30" NE)

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1125 EXISTING AND DEMOLITION PLAN 6/18/2025 2:24 PM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1128

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1137

MATCHLINE SEE SHEET 1A-C-1128

EXISTING GRAVEL ROAD

EXISTING CONCRETE PILOT CHANNEL

50' JURISDICTIONAL WATERS BUFFER

JURISDICTIONAL WATERS

EXISTING BAFFLE BLOCK STRUCTURE

50' JURISDICTIONAL WATERS BUFFER

86 LF 42" CPP @ 0.50%

MG-ST-PCES-007
RIM: 619.69
INV IN: 615.53 (42" SW)

23 LF 42" CPP @ 0.40%

MG-ST-MH-004
RIM: 622.60
INV IN: 615.96 (42" SW)
INV OUT: 615.96 (42" NE)

OS-002
RIM: 621.46
INV OUT: 616.05 (42" NE)

EXISTING RIP RAP

EXISTING CONCRETE PILOT CHANNEL

EXISTING CONCRETE PILOT CHANNEL

EXISTING RIP RAP

EXISTING DETENTION POND

EXISTING GRAVEL ROAD

EXISTING CONCRETE PILOT CHANNEL

MG-ST-PCES-001
RIM: 623.08
INV IN: 620.00 (30" SW)

EXISTING BAFFLE BLOCK STRUCTURE

EXISTING GRAVEL ROAD

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
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- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCADocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1106 EXISTING AND DEMOLITION PLAN 6/18/2025 12:21 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

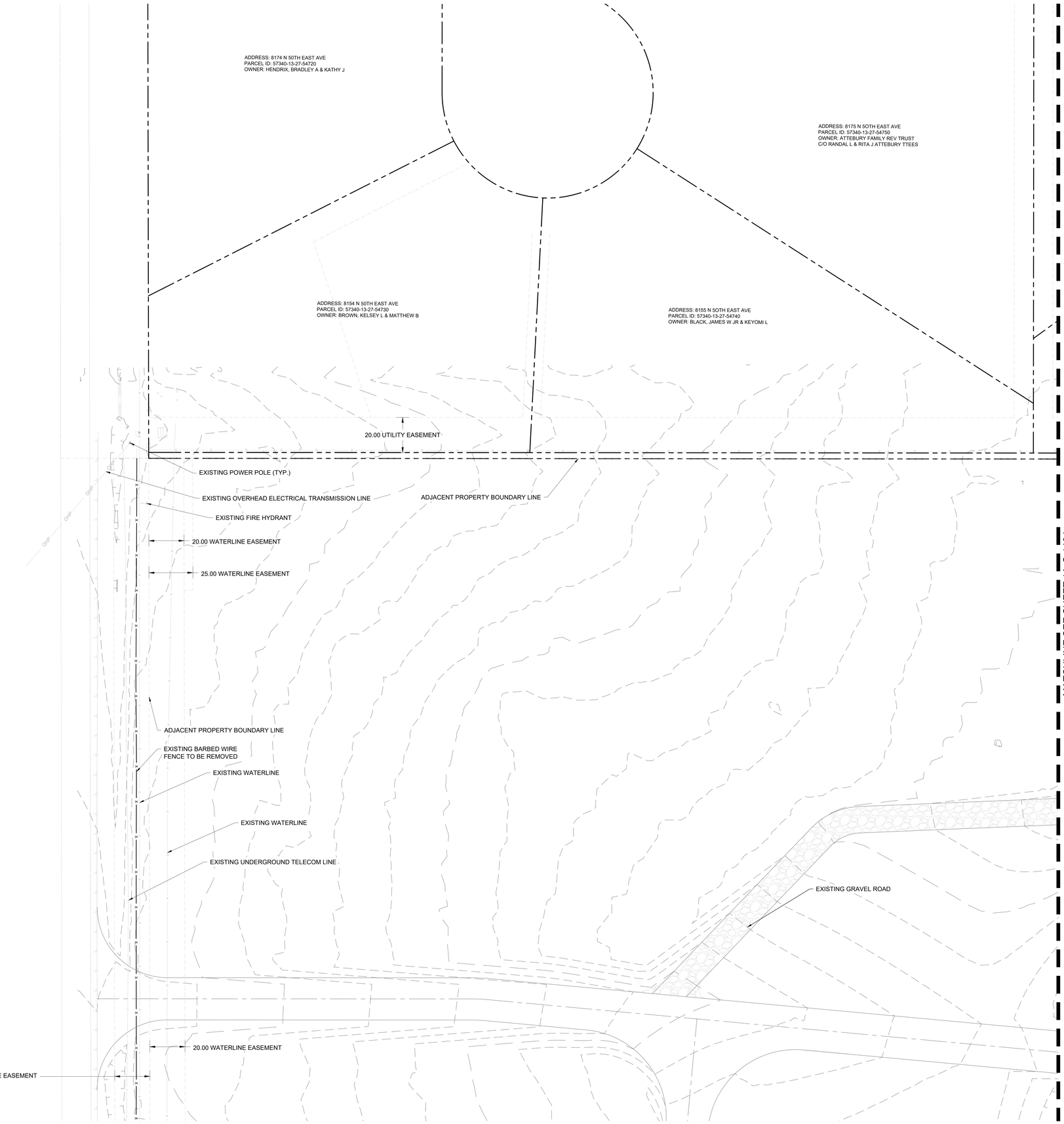
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1129

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\{60057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1125 EXISTING AND DEMOLITION PLAN 6/18/2025 2:24 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

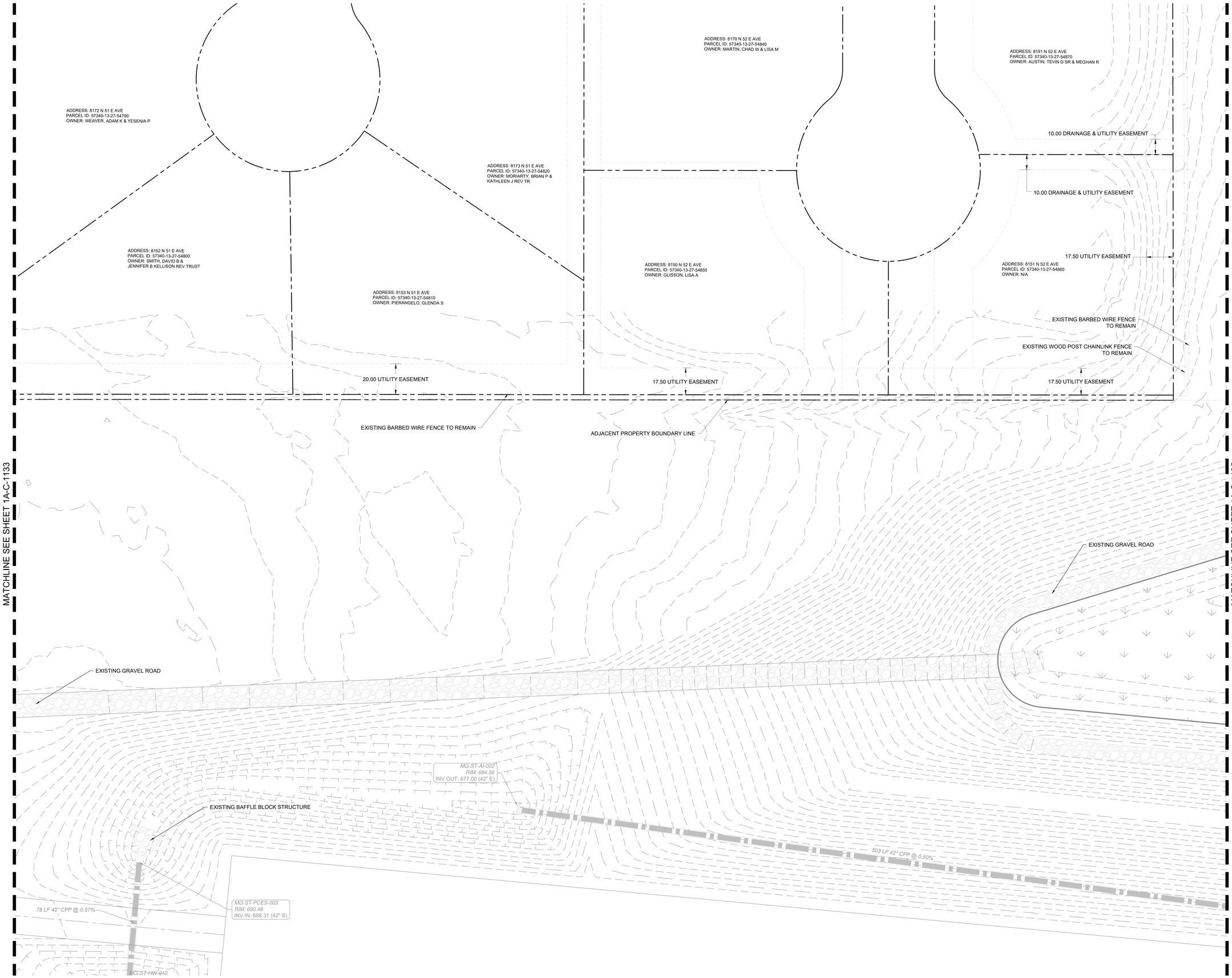
PROJ. NO.:10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1133

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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N

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SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-1125 EXISTING AND DEMOLITION PLAN 6/18/2025 2:24 PM

HDR, INC.
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

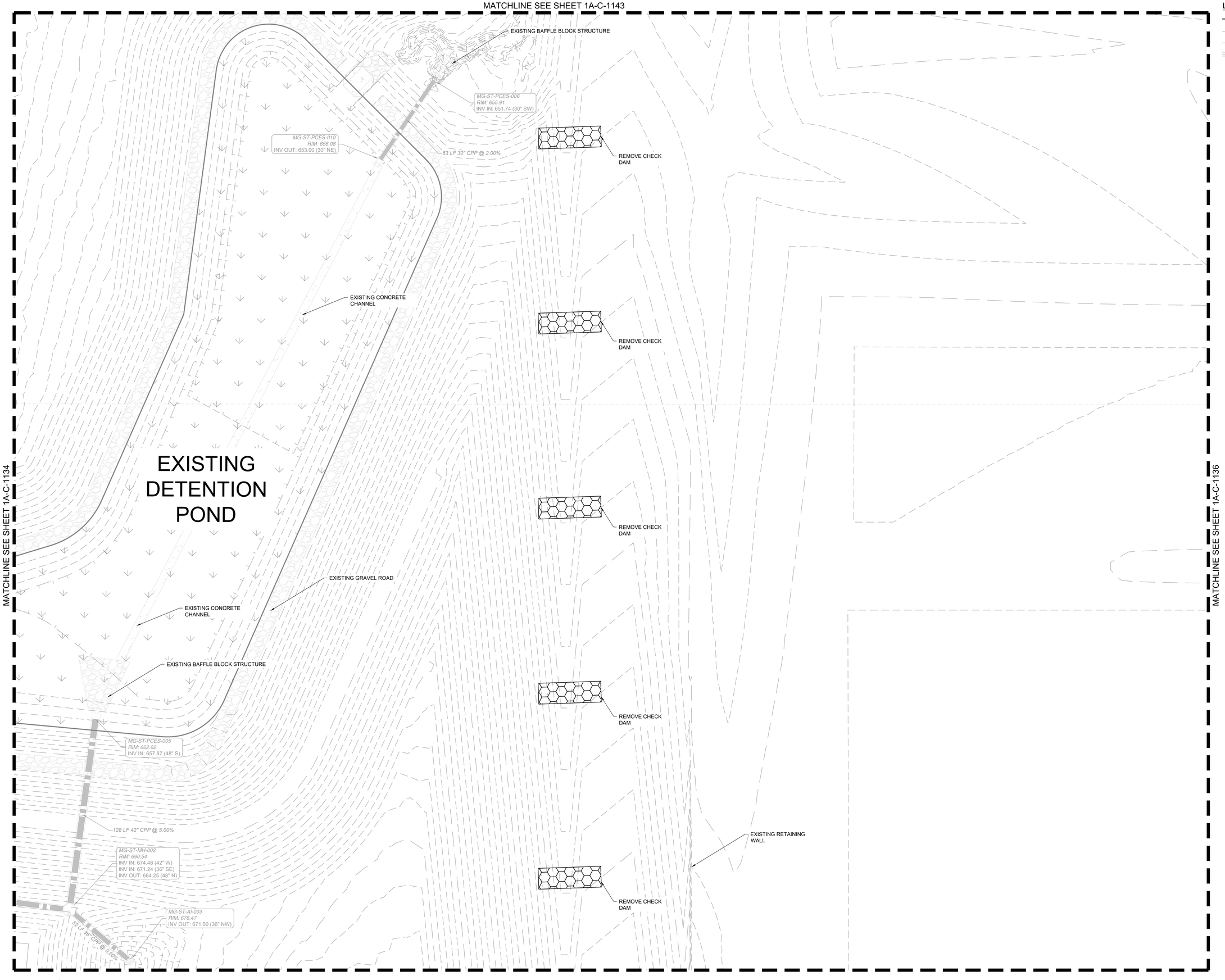
EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1134

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1143



MATCHLINE SEE SHEET 1A-C-1134

MATCHLINE SEE SHEET 1A-C-1136

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
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SCALE IN FEET

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HDR, INC.
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REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1135

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-1144

MATCHLINE SEE SHEET 1A-C-1135

MATCHLINE SEE SHEET 1A-C-1137

EXISTING RETAINING WALL

50' JURISDICTIONAL WATERS BUFFER

EXISTING RIP RAP

LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
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- CURB AND GUTTER REMOVAL

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5. ANY EXISTING STRUCTURE, IMPROVEMENT, OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
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7. WHERE EXISTING GRADE IS AT A SLOPE STEEPER THAN ONE UNIT VERTICAL IN FIVE UNITS HORIZONTAL (20-PERCENT SLOPE) AND THE DEPTH OF THE FILL EXCEEDS 5 FEET, BENCHING SHALL BE PROVIDED.
8. CONTRACTOR TO SEE ABBREVIATIONS LIST (SEE SHEET 1A-C-0002), FOR CLARIFICATION.
9. SAWCUT AND REMOVAL OF ASPHALT SHALL BE DONE IN A MANNER THAT DOES NOT LEAVE AREAS THAT ARE LESS THAN THREE FEET IN WIDTH REMAINING.
10. REFER TO THE TABLES ON OVERALL SHEET 1A-C-1000 FOR THE POTENTIAL LOCATIONS OF EXISTING WELLS. CONTRACTOR SHALL IDENTIFY THE LOCATION OF EXISTING WELLS PRIOR TO CONSTRUCTION AND EXCAVATE WITH CAUTION IN THE AREA. ANY WELL CAPS THAT ARE DAMAGED OR REMOVED DUE TO EXCAVATION SHALL BE REPLACED PER STATE STANDARDS AND PERMITTED ACCORDINGLY.

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

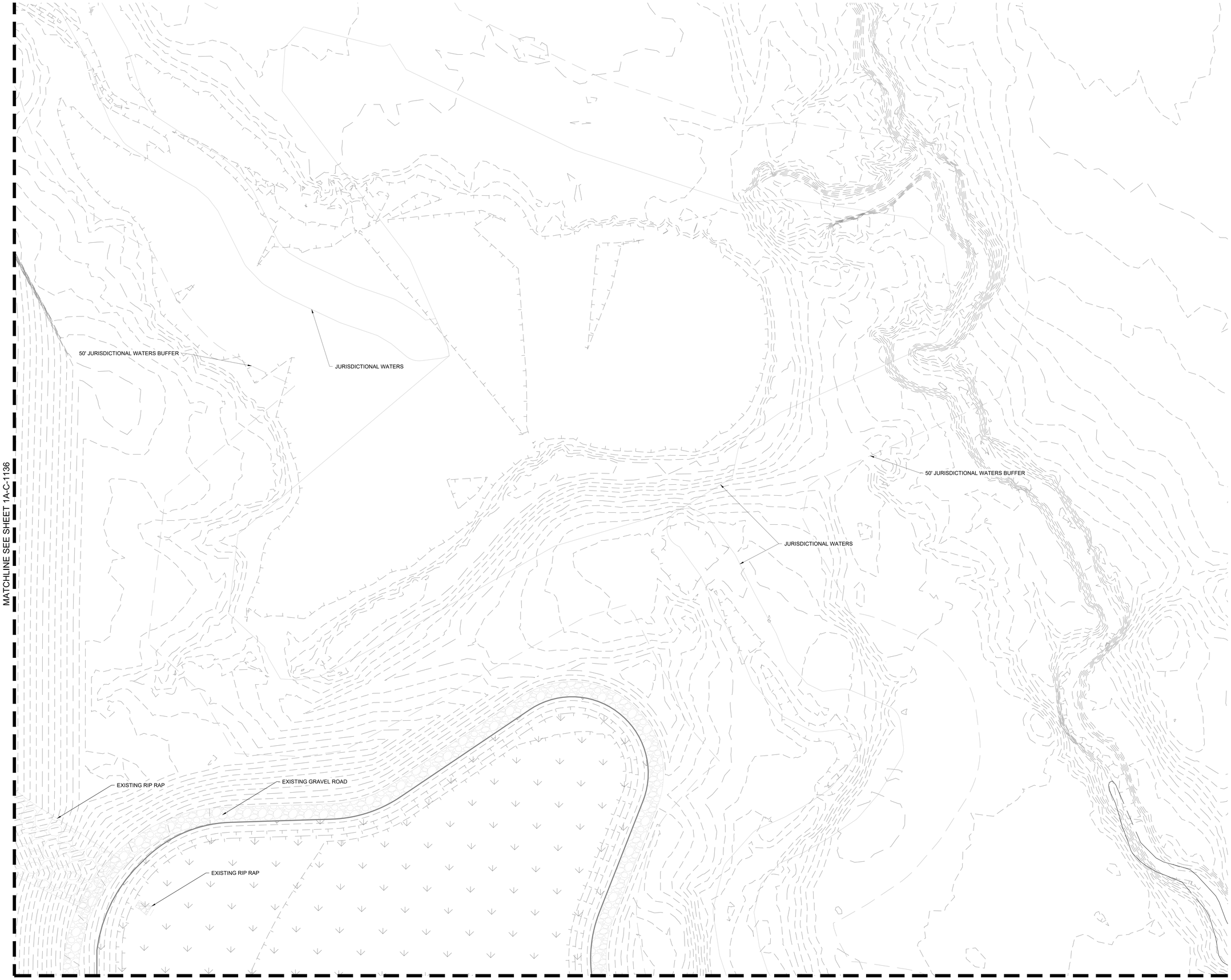
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1136

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- 980 EXISTING MAJOR CONTOUR
- 978 EXISTING MINOR CONTOUR
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
- FIELD LOCATED POSITION
- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
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	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

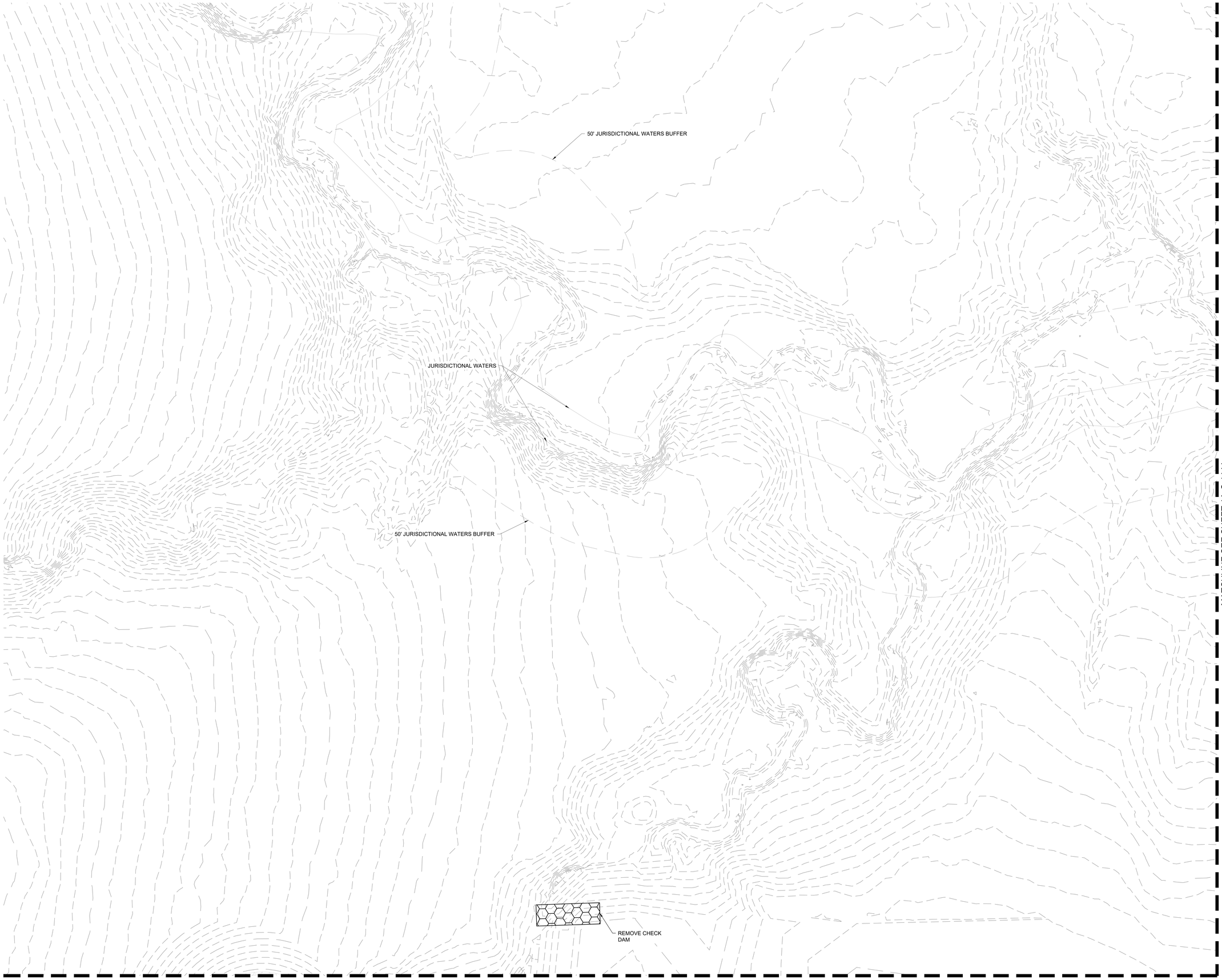
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1137

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (980)
- EXISTING MINOR CONTOUR (978)
- EXISTING STORM SEWER
- EXISTING MANHOLE
- EXISTING CURB INLET
- EXISTING AREA INLET
- EXISTING FLARED END SECTION
- EXISTING TRENCH DRAIN
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- MAGNETIC ANOMALY
- OCC LOCATIONS
- EXISTING RIP RAP
- CURB AND GUTTER REMOVAL

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N

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SCALE IN FEET

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OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

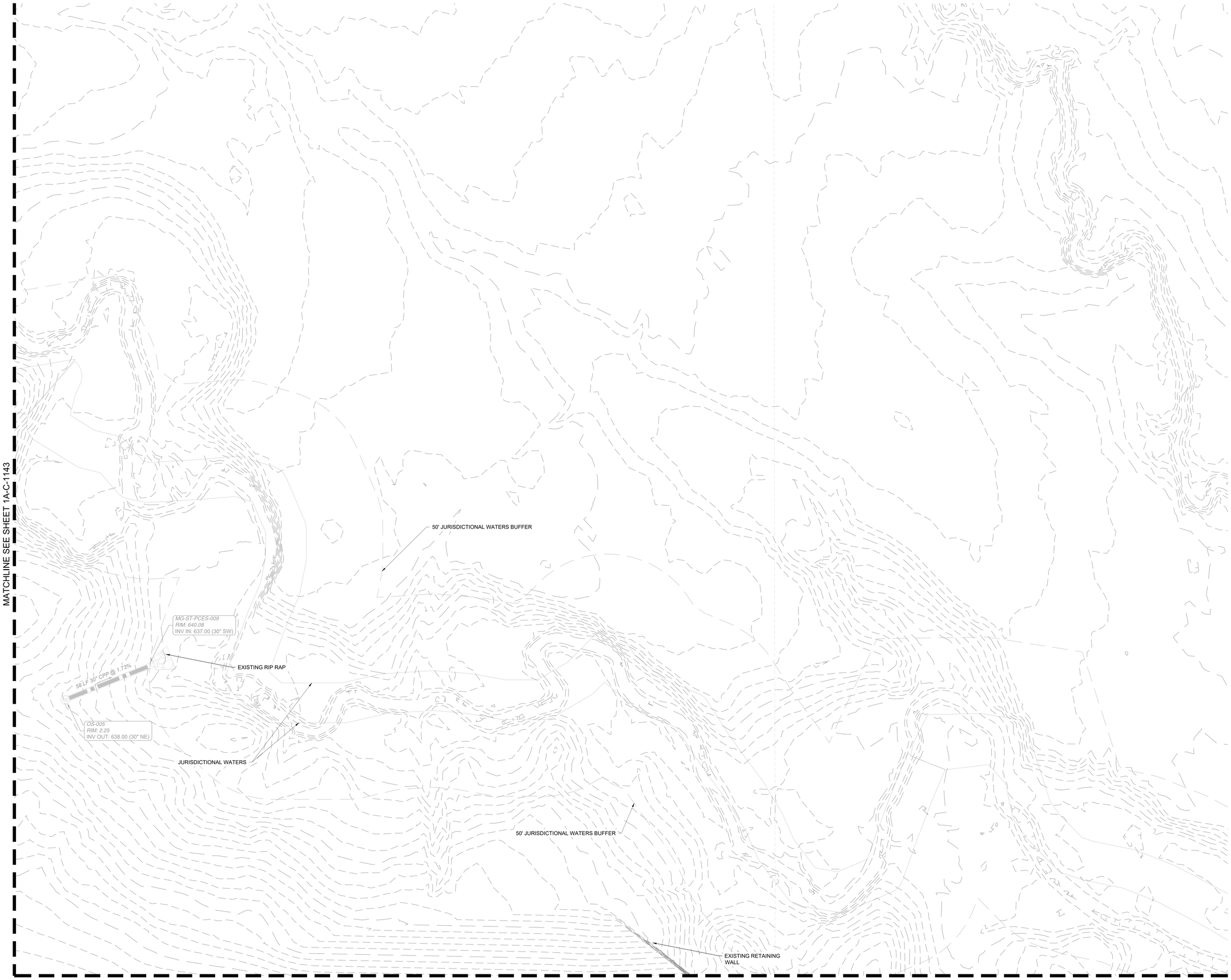
PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1143

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EXISTING CONDITIONS & DEMOLITION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-1144

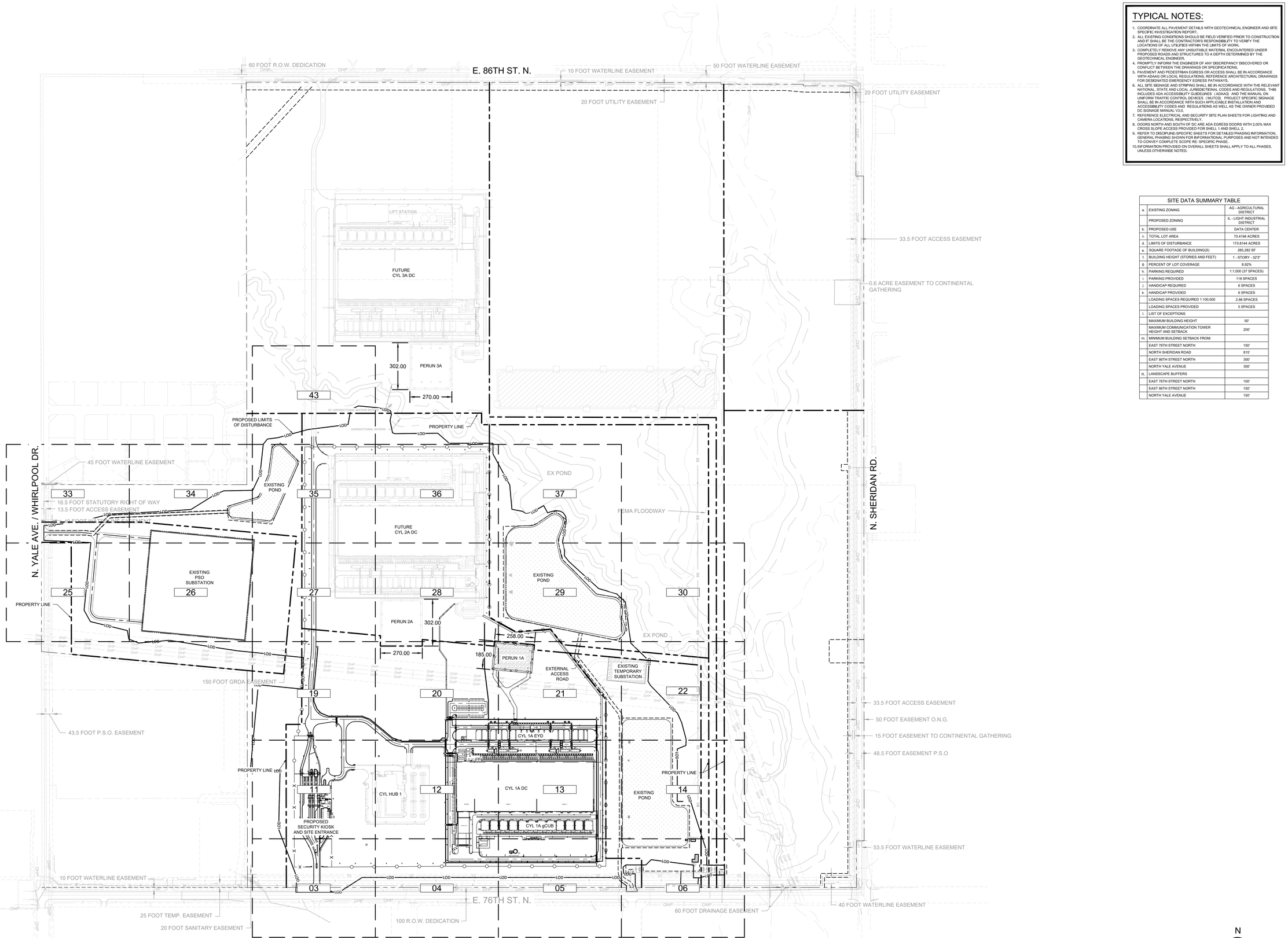
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

TYPICAL NOTES:

1. COORDINATE ALL PAVEMENT DETAILS WITH GEOTECHNICAL ENGINEER AND SITE SPECIFIC INVESTIGATION REPORT.
2. ALL EXISTING CONDITIONS SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE LOCATIONS OF ALL UTILITIES WITHIN THE LIMITS OF WORK.
3. COMPLETELY REMOVE ANY UNSUITABLE MATERIAL ENCOUNTERED UNDER PROPOSED ROADS AND STRUCTURES TO A DEPTH DETERMINED BY THE GEOTECHNICAL ENGINEER.
4. PROMPTLY INFORM THE ENGINEER OF ANY DISCREPANCY DISCOVERED OR CONFLICT BETWEEN THE DRAWINGS OR SPECIFICATIONS.
5. PAVEMENT AND PEDESTRIAN EGRESS OR ACCESS SHALL BE IN ACCORDANCE WITH ADAAG OR LOCAL REGULATIONS. REFERENCE ARCHITECTURAL DRAWINGS FOR DESIGNATED EMERGENCY EGRESS PATHWAYS.
6. ALL SITE SIGNAGE AND STRIPING SHALL BE IN ACCORDANCE WITH THE RELEVANT NATIONAL, STATE AND LOCAL JURISDICTIONAL CODES AND REGULATIONS. THIS INCLUDES ADA ACCESSIBILITY GUIDELINES (ADAAG) AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PROJECT SPECIFIC SIGNAGE SHALL BE IN ACCORDANCE WITH SUCH APPLICABLE INSTALLATION AND ACCESSIBILITY CODES AND REGULATIONS AS WELL AS THE OWNER PROVIDED DC SIGNAGE MANUAL V3.0.
7. REFERENCE ELECTRICAL AND SECURITY SITE PLAN SHEETS FOR LIGHTING AND CAMERA LOCATIONS, RESPECTIVELY.
8. DOORS NORTH AND SOUTH OF DC ARE ADA EGRESS DOORS WITH 2.00% MAX CROSS SLOPE ACCESS PROVIDED FOR SHELL 1 AND SHELL 2.
9. REFER TO DISCIPLINE-SPECIFIC SHEETS FOR DETAILED PHASING INFORMATION. GENERAL PHASING SHOWN FOR INFORMATIONAL PURPOSES AND NOT INTENDED TO CONVEY COMPLETE SCOPE RE: SPECIFIC PHASE.
10. INFORMATION PROVIDED ON OVERALL SHEETS SHALL APPLY TO ALL PHASES, UNLESS OTHERWISE NOTED.

SITE DATA SUMMARY TABLE

a.	EXISTING ZONING	AG - AGRICULTURAL DISTRICT
	PROPOSED ZONING	IL - LIGHT INDUSTRIAL DISTRICT
b.	PROPOSED USE	DATA CENTER
c.	TOTAL LOT AREA	73.4194 ACRES
d.	LIMITS OF DISTURBANCE	173.8144 ACRES
e.	SQUARE FOOTAGE OF BUILDING(S)	285,282 SF
f.	BUILDING HEIGHT (STORIES AND FEET)	1 - STORY - 32'3"
g.	PERCENT OF LOT COVERAGE	8.92%
h.	PARKING REQUIRED	1:1,000 (37 SPACES)
i.	PARKING PROVIDED	118 SPACES
j.	HANDICAP REQUIRED	6 SPACES
k.	HANDICAP PROVIDED	6 SPACES
	LOADING SPACES REQUIRED 1:100,000	2.86 SPACES
	LOADING SPACES PROVIDED	5 SPACES
l.	LIST OF EXCEPTIONS	
	MAXIMUM BUILDING HEIGHT	50'
	MAXIMUM COMMUNICATION TOWER HEIGHT AND SETBACK	200'
m.	MINIMUM BUILDING SETBACK FROM:	
	EAST 76TH STREET NORTH	150'
	NORTH SHERIDAN ROAD	815'
	EAST 86TH STREET NORTH	300'
	NORTH YALE AVENUE	300'
n.	LANDSCAPE BUFFERS	
	EAST 76TH STREET NORTH	100'
	EAST 86TH STREET NORTH	150'
	NORTH YALE AVENUE	150'



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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

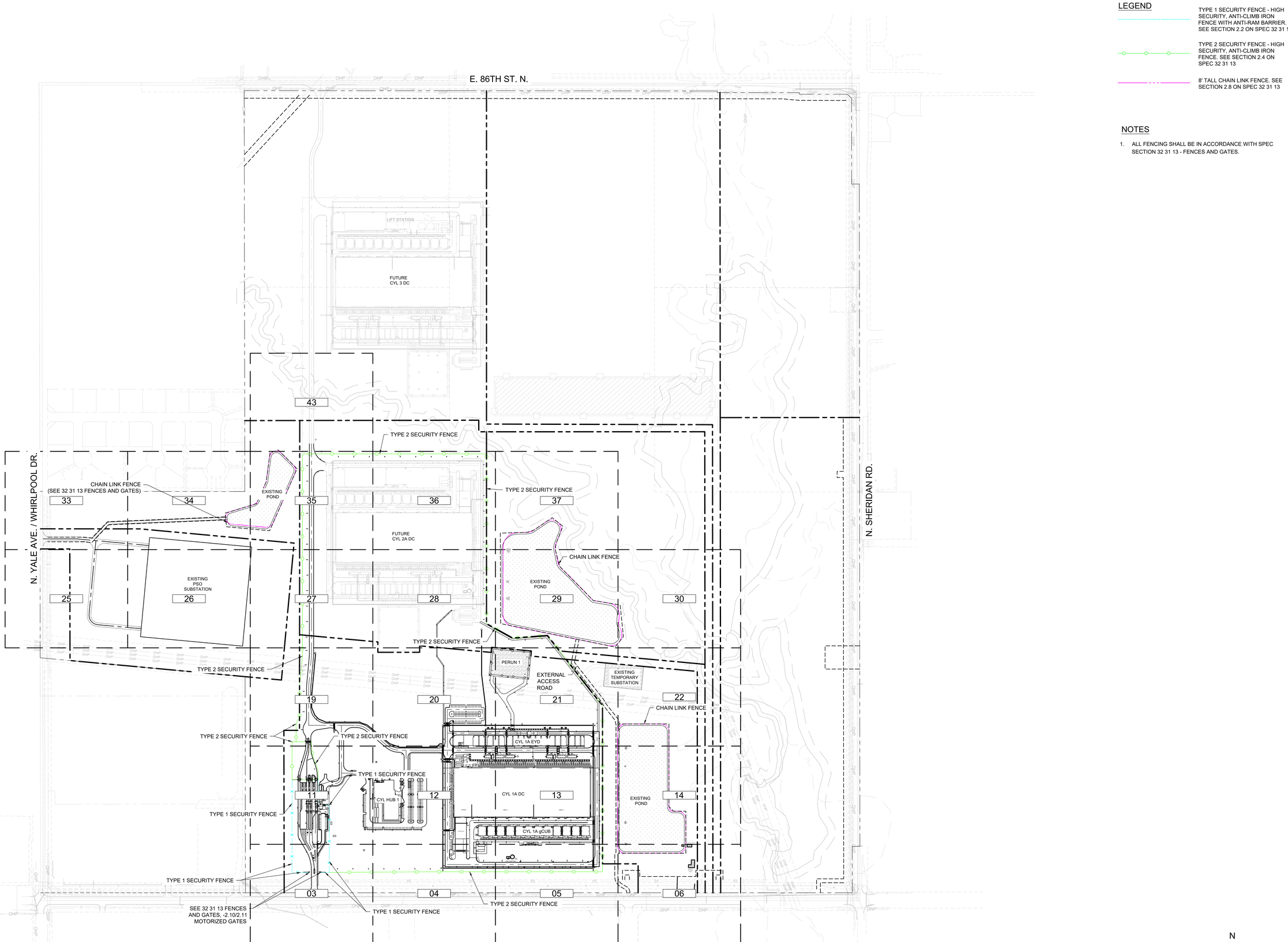
PROJ. NO.: 10434535

SITE PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE. SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13

NOTES

1. ALL FENCING SHALL BE IN ACCORDANCE WITH SPEC SECTION 32 31 13 - FENCES AND GATES.

N

0' 100' 200' 400'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2001 FENCING PLAN - OVERALL 8/18/2025 9:17 AM

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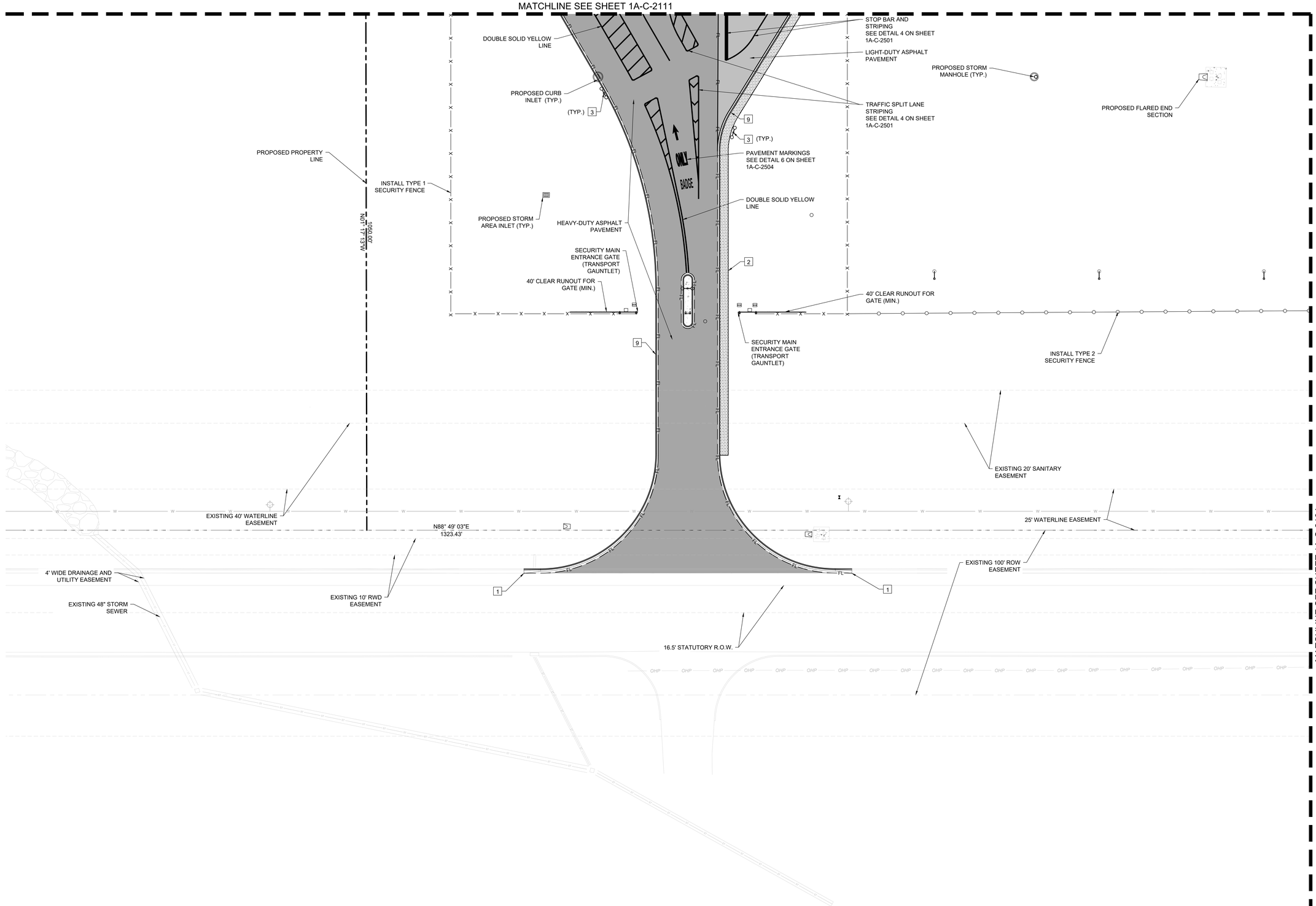
SITE FENCING PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2001

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
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- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
- AGGREGATE SURFACING - 12" PER DETAIL 3 SHEET 1A-C-2505
- HEAVY DUTY CONCRETE PAVING PER DETAIL 3 SHEET 1A-C-2502
- MEDIUM DUTY CONCRETE PAVING PER DETAIL 4 SHEET 1A-C-2502
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 1A-C-2502
- LIGHT DUTY ASPHALT PAVING PER DETAIL 6 SHEET 1A-C-2502
- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
- STRUCTURAL CONCRETE SLAB. REFERENCE STRUCTURAL PLANS.

NOTES

1. REFER TO SITE GEOMETRIC SHEETS 1A-C-2303 - 1A-C-2343 FOR SITE DIMENSIONS AND RADII.
2. REFER TO ARCHITECTURAL AND PLUMBING PLANS FOR ALL INFORMATION ON PROPOSED BUILDING INFRASTRUCTURE AND CONNECTIONS.
3. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
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2. 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
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20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL GRIFFIN OKLAHOMA
04/09/2026

TRADE SECRETS

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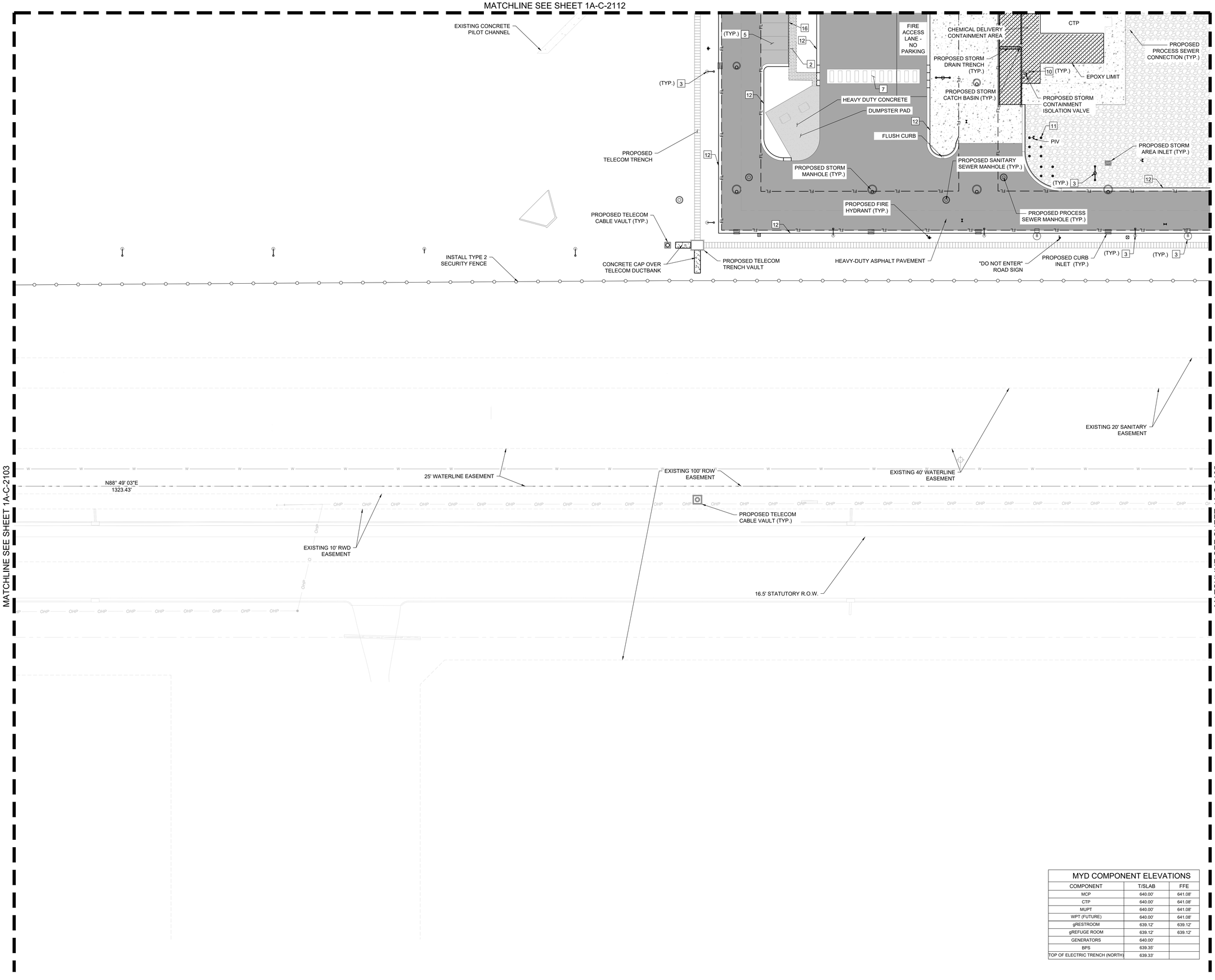
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434535

SITE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2103
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2112



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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CTP	640.00'	641.08'
MUPT	640.00'	641.08'
WPT (FUTURE)	640.00'	641.08'
gRESTROOM	639.12'	639.12'
gREFUGE ROOM	639.12'	639.12'
GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

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SCALE IN FEET

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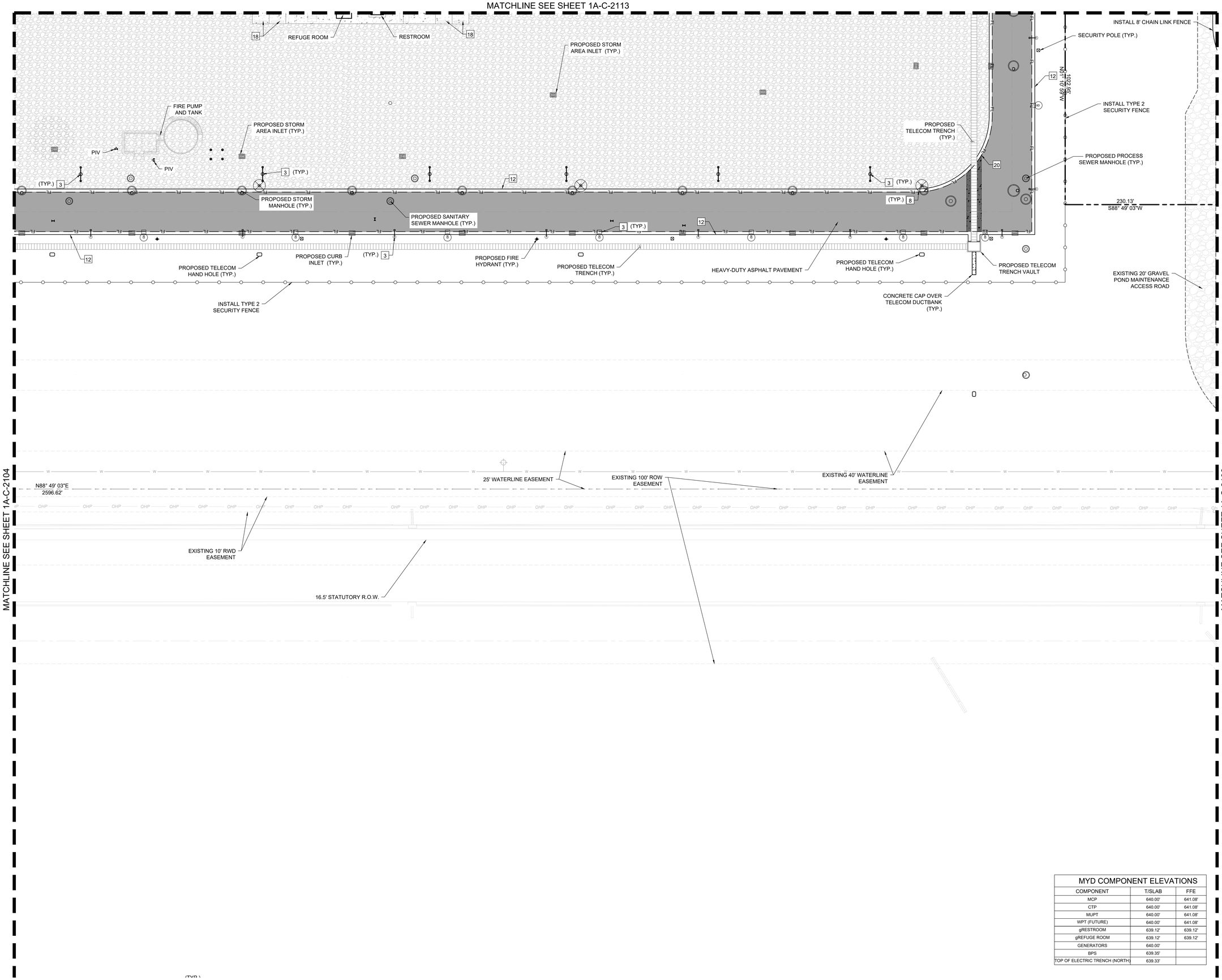
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2104
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2105
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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MATCHLINE SEE SHEET 1A-C-2114

MATCHLINE SEE SHEET 1A-C-2105

EXISTING DETENTION BASIN

20' POND MAINTENANCE ACCESS ROAD

EXISTING POND PERIMETER GRAVEL ROAD

INSTALL 8' CHAIN LINK FENCE

PROPOSED DETENTION EASEMENT

230.13'
S88° 49' 03"W

N01° 10' 57"W
187.24'

EXISTING RWD WATER EASEMENT

EXISTING RWD FIRE METER

EXISTING CITY OF TULSA WATER METER

EXISTING 16" WATERLINE

EXISTING RWD WATER METER

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING 40' WATERLINE EASEMENT

EXISTING 100' ROW EASEMENT

EXISTING 10' RWD EASEMENT

16.5' STATUTORY R.O.W.

N88° 49' 03"E
2596.62'

APPROXIMATE LOCATION OF COLLAPSED HOUSE

PROPOSED PROPERTY LINE

N01° 13' 59"W
1431.15'

S01° 13' 59"E
2360.23'

N01° 13' 59"W
3025.94'

S01° 13' 59"E
307.78'

EXISTING RWD FIRE METER

EXISTING RWD WATER EASEMENT

EXISTING CITY OF TULSA WATER METER

EXISTING RWD WATER METER

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING 20' SANITARY EASEMENT

GATE

EXISTING 40' WATERLINE EASEMENT

LEGEND

- PROPERTY LINE
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- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

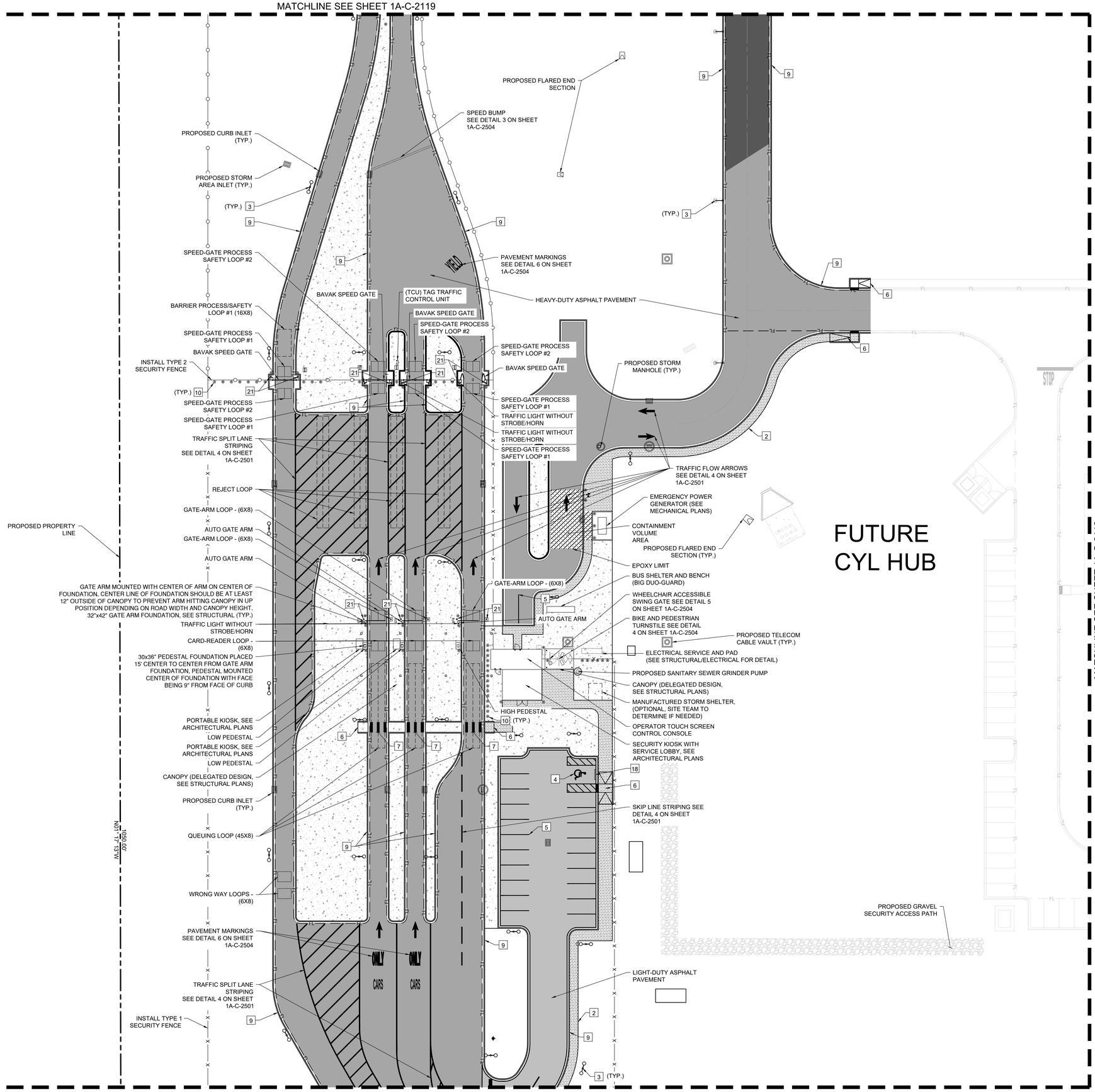
PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2106

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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5. 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6. ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7. STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
8. SECURITY CAMERA POLE (TYP.), SEE SECURITY PLANS.
9. STANDARD CURB AND GUTTER (SEE DETAIL 2 ON SHEET 1A-C-2504)
10. FIXED SITE BOLLARD (SEE DETAIL 5, SHEET 1A-C-2501)
11. REMOVABLE SITE BOLLARD (SEE DETAIL 3, 1A-C-2501)
12. MOUNTABLE CURB & GUTTER (SEE DETAIL 5 ON SHEET 1A-C-2503)
13. TRANSITION CURB TYPES OVER MIN. 5'
14. TAPER CURB TO FINISH GRADE WITH PAVEMENT
15. CONCRETE STOOP (SEE DETAIL 9, SHEET 1A-C-2502)
16. BARRIER CURB
17. LANDING (SEE DETAIL 8, SHEET 1A-C-2502)
18. CONCRETE WHEELSTOP (SEE DETAIL 6, SHEET 1A-C-2501)
19. 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2101 SITE PLAN 6/18/2025 5:21 PM

HDR, INC.
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OMAHA, NE 68106
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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

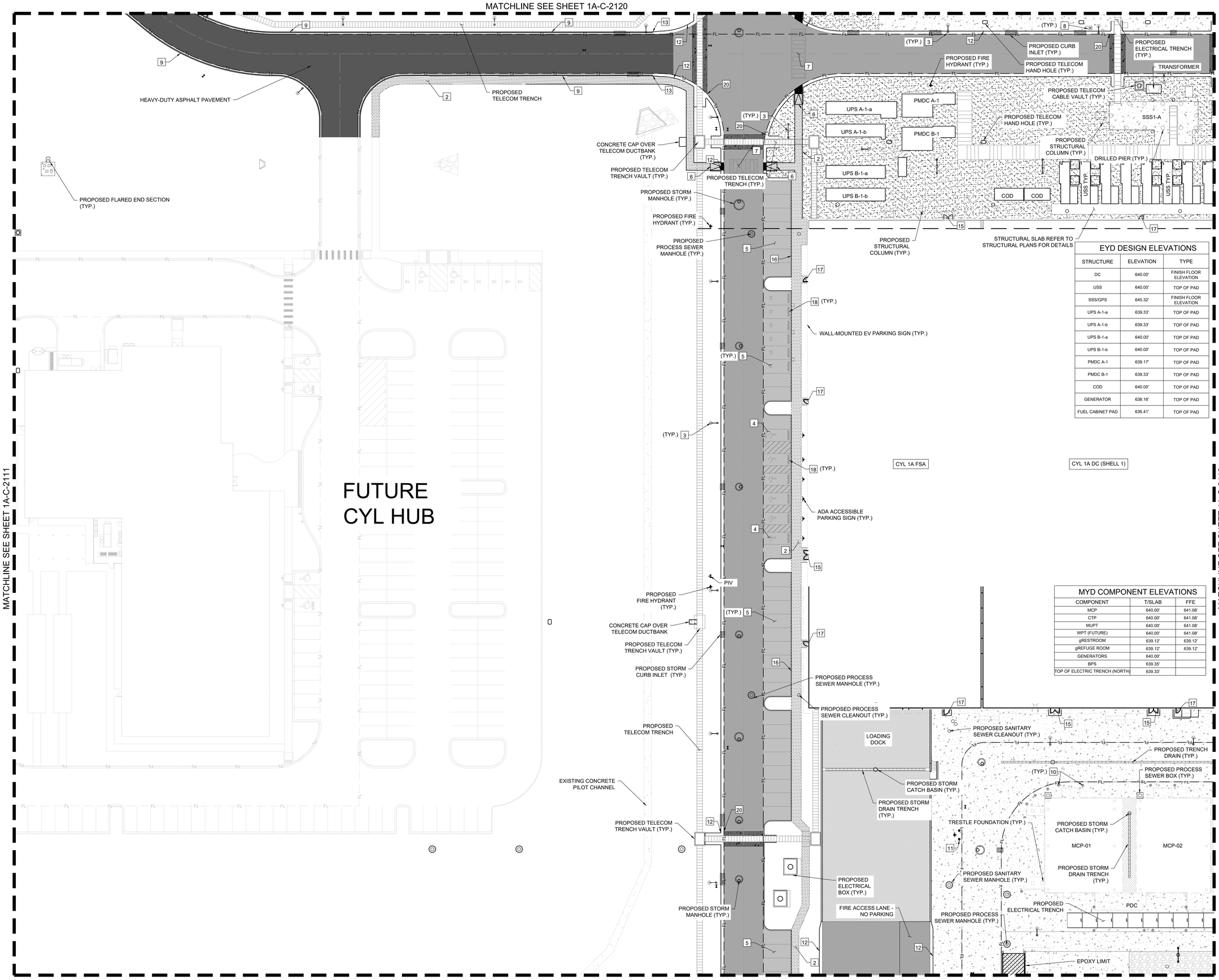
PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EYD DESIGN ELEVATIONS

STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
USS	640.00'	TOP OF PAD
SSS/GPS	645.32'	FINISH FLOOR ELEVATION
UPS A-1-a	639.33'	TOP OF PAD
UPS A-1-b	639.33'	TOP OF PAD
UPS B-1-a	640.00'	TOP OF PAD
UPS B-1-b	640.00'	TOP OF PAD
PMDC A-1	639.17'	TOP OF PAD
PMDC B-1	639.33'	TOP OF PAD
COD	640.00'	TOP OF PAD
GENERATOR	638.16'	TOP OF PAD
FUEL CABINET PAD	636.41'	TOP OF PAD

MYD COMPONENT ELEVATIONS

COMPONENT	T/SLAB	FFE
MCP	640.00'	641.08'
CTP	640.00'	641.08'
MUPT	640.00'	641.08'
WPT (FUTURE)	640.00'	641.08'
gRESTROOM	639.12'	639.12'
gREFUGE ROOM	639.12'	639.12'
GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
- AGGREGATE SURFACING - 12" PER DETAIL 3 SHEET 1A-C-2505
- HEAVY DUTY CONCRETE PAVING PER DETAIL 3 SHEET 1A-C-2502
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- LIGHT DUTY ASPHALT PAVING PER DETAIL 6 SHEET 1A-C-2502
- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
- STRUCTURAL CONCRETE SLAB. REFERENCE STRUCTURAL PLANS.

NOTES

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C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2101 SITE PLAN 6/18/2025 5:21 PM

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL FOLLETT OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2112

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2121

MATCHLINE SEE SHEET 1A-C-2112

MATCHLINE SEE SHEET 1A-C-2114

PROPOSED STRUCTURAL COLUMN (TYP.)

PROPOSED TELECOM HAND HOLE (TYP.)

PROPOSED TELECOM CABLE VAULT (TYP.)

PROPOSED CURB INLET (TYP.)

PROPOSED FIRE HYDRANT (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

TRANSFORMER

PROPOSED TELECOM HAND HOLE (TYP.)

PROPOSED FIRE HYDRANT (TYP.)

TRANSFORMER

PROPOSED TELECOM CABLE VAULT (TYP.)

PROPOSED STRUCTURAL COLUMN (TYP.)

GPS1

SSS1-B

SSS1-A

GPS1

SSS1-B

PROPOSED ELECTRICAL TRENCH

DRILLED PIER (TYP.)

PROPOSED ELECTRICAL TRENCH

USS TYP

STRUCTURAL SLAB REFER TO STRUCTURAL PLANS FOR DETAILS

CYL 1A DC (SHELL 1)

CYL 1A DC (SHELL 2)

EYD DESIGN ELEVATIONS

STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
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WPT (FUTURE)	640.00'	641.08'
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gREFUGE ROOM	639.12'	639.12'
GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED PROCESS SEWER MANHOLE (TYP.)

PROPOSED STORM MANHOLE (TYP.)

HEAVY-DUTY ASPHALT PAVEMENT

PROPOSED CURB INLET (TYP.)

PROPOSED FIRE HYDRANT (TYP.)

PROPOSED PROCESS SEWER CLEANOUT (TYP.)

PROPOSED TRENCH DRAIN (TYP.)

PROPOSED PROCESS SEWER BOX (TYP.)

PROPOSED FIRE HYDRANT (TYP.)

PROPOSED STORM MANHOLE (TYP.)

PROPOSED STORM CATCH BASIN (TYP.)

PROPOSED STORM DRAIN TRENCH (TYP.)

PROPOSED SANITARY SEWER CLEANOUT (TYP.)

PROPOSED SANITARY SEWER CLEANOUT (TYP.)

PROPOSED ELECTRICAL TRENCH

REFUGE ROOM

RESTROOM

MCP-03 MCP-04 MCP-05 MCP-06 MCP-07 MCP-08 MCP-09 MCP-10 MCP-11 MCP-12

PDC

USS TYP.

N01°10'10"W 1023.95'

PROPOSED ROAD SIGN (TYP.)

INSTALL TYPE 2 SECURITY FENCE

INSTALL 8' CHAIN LINK FENCE

EXISTING 20' GRAVEL POND MAINTENANCE ACCESS ROAD

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
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19 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20 TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21 TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL OKLAHOMA 04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER: 1A-C-2113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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MATCHLINE SEE SHEET 1A-C-2122

MATCHLINE SEE SHEET 1A-C-2113

EXISTING POND OUTLET STRUCTURE

PROPOSED BAFFLE BLOCK STRUCTURE SEE 1A-C-3504 FOR DETAIL

EXISTING SLIDE GATE VALVE CONTROL STRUCTURE

EXISTING CONCRETE

EXISTING 50' OVH POWER LINE EASEMENT

150' GRAND RIVER DAM AUTHORITY EASEMENT

PROPOSED PROPERTY LINE

EXISTING DETENTION BASIN

PROPOSED DETENTION EASEMENT

INSTALL 8' CHAIN LINK FENCE

EXISTING POND ACCESS GRAVEL ROAD

PROPOSED BAFFLE BLOCK STRUCTURE SEE 1A-C-3504 FOR DETAIL

EXISTING POND PERIMETER GRAVEL ROAD

PROPOSED BAFFLE BLOCK STRUCTURE SEE 1A-C-3504 FOR DETAIL

APPROXIMATE LOCATION OF OLD BARNS

1431.15' IN01°13'59"W

S01°13'59"E 2880.23'

3025.94' IN01°13'59"W

S01°13'59"E 3071.98'

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2106 SITE PLAN 6/18/2025 4:11 PM

HDR, INC.
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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2114

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2127



LEGEND

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- MEDIUM DUTY CONCRETE PAVING PER DETAIL 4 SHEET 1A-C-2502
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 1A-C-2502
- LIGHT DUTY ASPHALT PAVING PER DETAIL 6 SHEET 1A-C-2502
- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
- STRUCTURAL CONCRETE SLAB. REFERENCE STRUCTURAL PLANS.

NOTES

1. REFER TO SITE GEOMETRIC SHEETS 1A-C-2303 - 1A-C-2343 FOR SITE DIMENSIONS AND RADII.
2. REFER TO ARCHITECTURAL AND PLUMBING PLANS FOR ALL INFORMATION ON PROPOSED BUILDING INFRASTRUCTURE AND CONNECTIONS.
3. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
4. WHERE PAVEMENT IS PLACED AROUND EXISTING AND PROPOSED MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES, CONTRACTOR TO INSTALL PAVEMENT TO THE SAME ELEVATION AS STRUCTURE TOP AND ENSURE A SMOOTH TRANSITION FROM PROPOSED PAVEMENT TO TOP OF STRUCTURE.
5. ALL FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPEC. SECTION 32 31 13 - FENCES AND GATES.

KEY NOTES

1. CONNECT TO EXISTING CURB
2. 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
3. SITE LIGHTING (TYP.), SEE ELECTRICAL PLANS
4. ACCESSIBLE PARKING (SEE DETAIL ON 1A-C-2503)
5. 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6. ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7. STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
8. SECURITY CAMERA POLE (TYP.), SEE SECURITY PLANS.
9. STANDARD CURB AND GUTTER (SEE DETAIL 2 ON SHEET 1A-C-2504)
10. FIXED SITE BOLLARD (SEE DETAIL 5, SHEET 1A-C-2501)
11. REMOVABLE SITE BOLLARD (SEE DETAIL 3, 1A-C-2501)
12. MOUNTABLE CURB & GUTTER (SEE DETAIL 5 ON SHEET 1A-C-2503)
13. TRANSITION CURB TYPES OVER MIN. 5'
14. TAPER CURB TO FINISH GRADE WITH PAVEMENT
15. CONCRETE STOOP (SEE DETAIL 9, SHEET 1A-C-2502)
16. BARRIER CURB
17. LANDING (SEE DETAIL 8, SHEET 1A-C-2502)
18. CONCRETE WHEELSTOP (SEE DETAIL 6, SHEET 1A-C-2501)
19. 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

MATCHLINE SEE SHEET 1A-C-2120

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2101 SITE PLAN 6/18/2025 5:21 PM

HDR, INC.
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL LAMB
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2119

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2128

MATCHLINE SEE SHEET 1A-C-2119

MATCHLINE SEE SHEET 1A-C-2121

N01° 10' 57"W
66.79'

270.00'
S88° 49' 03"W

41.90'
S01° 10' 57"E

PROPOSED PROPERTY LINE

463.61'
N85° 55' 01"W

32.93'
S04° 04' 58"W

PERUN FENCE BY TENANT

(TYP.) 3

PROPOSED 12" AGGREGATE SURFACING

PROPOSED TELECOM HAND HOLE (TYP.)

(TYP.) 3

150' GRAND RIVER DAM AUTHORITY EASEMENT

19

19

19

2

19

LIGHT-DUTY ASPHALT PAVEMENT

PROPOSED TELECOM TRENCH

16

12

PROPOSED STORM AREA INLET (TYP.)

(TYP.) 5

16

3 (TYP.)

PROPOSED TELECOM HAND HOLE (TYP.)

CONCRETE CAP OVER TELECOM DUCTBANK

6

6

16

PROPOSED TELECOM TRENCH VAULT (TYP.)

20

2

PROPOSED TELECOM TRENCH

(TYP.) 3

PROPOSED CURB INLET (TYP.)

PROPOSED TELECOM TRENCH VAULT (TYP.)

8 (TYP.)

PROPOSED TELECOM HAND HOLE (TYP.)

12

3 (TYP.)

6

20

PROPOSED STORM MANHOLE (TYP.)

7

PROPOSED ELECTRICAL TRENCH

12

HEAVY-DUTY ASPHALT PAVEMENT

6

PROPOSED TELECOM TRENCH VAULT (TYP.)

12

2

6

STORM SHELTER

20

9

PROPOSED CURB INLET (TYP.)

PROPOSED TELECOM TRENCH

9

EYD DESIGN ELEVATIONS		
STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
USS	640.00'	TOP OF PAD
SSS/GPS	645.32'	FINISH FLOOR ELEVATION
UPS A-1-a	639.33'	TOP OF PAD
UPS A-1-b	639.33'	TOP OF PAD
UPS B-1-a	640.00'	TOP OF PAD
UPS B-1-b	640.00'	TOP OF PAD
PMDC A-1	639.17'	TOP OF PAD
PMDC B-1	639.33'	TOP OF PAD
COD	640.00'	TOP OF PAD
GENERATOR	638.16'	TOP OF PAD
FUEL CABINET PAD	636.41'	TOP OF PAD

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING (FL)
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
- AGGREGATE SURFACING - 12" PER DETAIL 3 SHEET 1A-C-2505
- HEAVY DUTY CONCRETE PAVING PER DETAIL 3 SHEET 1A-C-2502
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20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2101 SITE PLAN 4/1/2026 11:04 AM

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OKLAHOMA
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2129

MATCHLINE SEE SHEET 1A-C-2120

MATCHLINE SEE SHEET 1A-C-2122

258.00'
N85° 55' 02"W

N04° 04' 58"E
32.93'

229.34'
N85° 55' 01"W

PROPOSED SANITARY SEWER MANHOLE (TYP.)

127.17'
N39° 18' 10"W

943.03'
N85° 55' 01"W

TEMPORARY SUBSTATION

PERUN FENCE BY TENANT

PROPOSED 12" AGGREGATE SURFACING

PROPOSED TELECOM HAND HOLE (TYP.)

(TYP.) 3

PROPOSED ELECTRIC MANHOLE (TYP.)

INSTALL TYPE 2 SECURITY FENCE

10' WIDE POND MAINTENANCE ACCESS ROAD

PROPOSED 12" AGGREGATE SURFACING

PROPOSED 6" AGGREGATE SURFACING

PROPOSED 20' EASEMENT

10' WIDE GRAVEL PATROL PATH

380.03'
N39° 18' 10"W

TEMPORARY GRAVEL ROAD TO THE TEMPORARY SUBSTATION

150' GRAND RIVER DAM AUTHORITY EASEMENT

(TYP.) 3

LD CONCRETE ROAD TO PERUN 1

PROPOSED TELECOM HAND HOLE (TYP.)

CONCRETE CAP OVER TELECOM DUCTBANK (TYP.)

EYD DESIGN ELEVATIONS		
STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
USS	640.00'	TOP OF PAD
SSS/GPS	645.32'	FINISH FLOOR ELEVATION
UPS A-1-a	639.33'	TOP OF PAD
UPS A-1-b	639.33'	TOP OF PAD
UPS B-1-a	640.00'	TOP OF PAD
UPS B-1-b	640.00'	TOP OF PAD
PMDC A-1	639.17'	TOP OF PAD
PMDC B-1	639.33'	TOP OF PAD
COD	640.00'	TOP OF PAD
GENERATOR	638.16'	TOP OF PAD
FUEL CABINET PAD	636.41'	TOP OF PAD

PROPOSED TELECOM TRENCH

PROPOSED STORM CONTAINMENT ISOLATION VALVE

PROPOSED STORM CATCH BASIN (TYP.)

PROPOSED ELECTRICAL TRENCH

FUELING CONTAINMENT AREA

EPOXY LIMIT

PROPOSED ELECTRICAL TRENCH

PROPOSED ELECTRICAL TRENCH

PROPOSED ELECTRICAL TRENCH

(TYP.) 8

(TYP.) 3

PROPOSED CURB INLET (TYP.)

HEAVY-DUTY ASPHALT PAVEMENT

PROPOSED TELECOM CABLE VAULT (TYP.)

PROPOSED 6" AGGREGATE SURFACING

PROPOSED GRAVEL SECURITY ACCESS PATH

CONCRETE CAP OVER TELECOM DUCTBANK

PROPOSED TELECOM TRENCH VAULT (TYP.)

N10° 11' 10"W
102.95'

EXISTING 20' GRAVEL POND MAINTENANCE ACCESS ROAD

INSTALL 8' CHAIN LINK FENCE

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING (FL)
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
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2 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
3 SITE LIGHTING (TYP.), SEE ELECTRICAL PLANS
4 ACCESSIBLE PARKING (SEE DETAIL ON 1A-C-2503)
5 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6 ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7 STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
8 SECURITY CAMERA POLE (TYP.), SEE SECURITY PLANS.
9 STANDARD CURB AND GUTTER (SEE DETAIL 2 ON SHEET 1A-C-2504)
10 FIXED SITE BOLLARD (SEE DETAIL 5, SHEET 1A-C-2501)
11 REMOVABLE SITE BOLLARD (SEE DETAIL 3, 1A-C-2501)
12 MOUNTABLE CURB & GUTTER (SEE DETAIL 5 ON SHEET 1A-C-2503)
13 TRANSITION CURB TYPES OVER MIN. 5'
14 TAPER CURB TO FINISH GRADE WITH PAVEMENT
15 CONCRETE STOOP (SEE DETAIL 9, SHEET 1A-C-2502)
16 BARRIER CURB
17 LANDING (SEE DETAIL 8, SHEET 1A-C-2502)
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19 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20 TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21 TAILGATING SENSOR ARRAY

N
0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL_1A-C-2101 SITE PLAN 4/1/2026 11:04 AM

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER: 1A-C-2121

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2130

MATCHLINE SEE SHEET 1A-C-2121

PROPOSED TEMPORARY SUBSTATION

943.03'
N85° 55' 01"W

850.20'
N85° 55' 01"W

PROPOSED12" AGGREGATE SURFACING

PROPOSED PROPERTY LINE

150' GRAND RIVER DAM AUTHORITY EASEMENT

PROPOSED DETENTION EASEMENT

INSTALL 8' CHAIN LINK FENCE

EXISTING DETENTION BASIN

EXISTING POND PERIMETER GRAVEL ROAD

1431.15'
N01° 13' 56"W

S01° 13' 56"E
2882.23'

3025.94'
N01° 13' 56"W

S01° 13' 56"E
3071.06'

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2106 SITE PLAN 6/18/2025 4:11 PM

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2122

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2133

S01° 17' 30"E
1075.80'

EXISTING 20'
TEMPORARY EASEMENT
FOR WATERLINE

N. YALE AVE. / WHIRLPOOL DR.

EXISTING 20' WATERLINE
EASEMENT

S01° 17' 30"E
721.33'

PROPOSED PROPERTY
LINE

150' GRAND RIVER DAM
AUTHORITY EASEMENT

OHP

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FL — FIRE LANE STRIPING
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- X X X — TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
- AGGREGATE SURFACING - 12" PER DETAIL 3 SHEET 1A-C-2505
- HEAVY DUTY CONCRETE PAVING PER DETAIL 3 SHEET 1A-C-2502
- MEDIUM DUTY CONCRETE PAVING PER DETAIL 4 SHEET 1A-C-2502
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 1A-C-2502
- LIGHT DUTY ASPHALT PAVING PER DETAIL 6 SHEET 1A-C-2502
- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
- STRUCTURAL CONCRETE SLAB. REFERENCE STRUCTURAL PLANS.

NOTES

1. REFER TO SITE GEOMETRIC SHEETS 1A-C-2303 - 1A-C-2343 FOR SITE DIMENSIONS AND RADII.
2. REFER TO ARCHITECTURAL AND PLUMBING PLANS FOR ALL INFORMATION ON PROPOSED BUILDING INFRASTRUCTURE AND CONNECTIONS.
3. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
4. WHERE PAVEMENT IS PLACED AROUND EXISTING AND PROPOSED MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES, CONTRACTOR TO INSTALL PAVEMENT TO THE SAME ELEVATION AS STRUCTURE TOP AND ENSURE A SMOOTH TRANSITION FROM PROPOSED PAVEMENT TO TOP OF STRUCTURE.
5. ALL FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPEC. SECTION 32 31 13 - FENCES AND GATES.

MATCHLINE SEE SHEET 1A-C-2126

KEY NOTES

1. CONNECT TO EXISTING CURB
2. 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
3. SITE LIGHTING (TYP.), SEE ELECTRICAL PLANS
4. ACCESSIBLE PARKING (SEE DETAIL ON 1A-C-2503)
5. 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6. ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7. STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
8. SECURITY CAMERA POLE (TYP.), SEE SECURITY PLANS.
9. STANDARD CURB AND GUTTER (SEE DETAIL 2 ON SHEET 1A-C-2504)
10. FIXED SITE BOLLARD (SEE DETAIL 5, SHEET 1A-C-2501)
11. REMOVABLE SITE BOLLARD (SEE DETAIL 3, 1A-C-2501)
12. MOUNTABLE CURB & GUTTER (SEE DETAIL 5 ON SHEET 1A-C-2503)
13. TRANSITION CURB TYPES OVER MIN. 5'
14. TAPER CURB TO FINISH GRADE WITH PAVEMENT
15. CONCRETE STOOP (SEE DETAIL 9, SHEET 1A-C-2502)
16. BARRIER CURB
17. LANDING (SEE DETAIL 8, SHEET 1A-C-2502)
18. CONCRETE WHEELSTOP (SEE DETAIL 6, SHEET 1A-C-2501)
19. 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCIAACCDocs\Kimley-Horn\660057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2125

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2134

MATCHLINE SEE SHEET 1A-C-2125

MATCHLINE SEE SHEET 1A-C-2127

PSO SUBSTATION

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FIRE LANE STRIPING (FL)
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
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- FUEL DELIVERY AREA
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21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCA\CCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

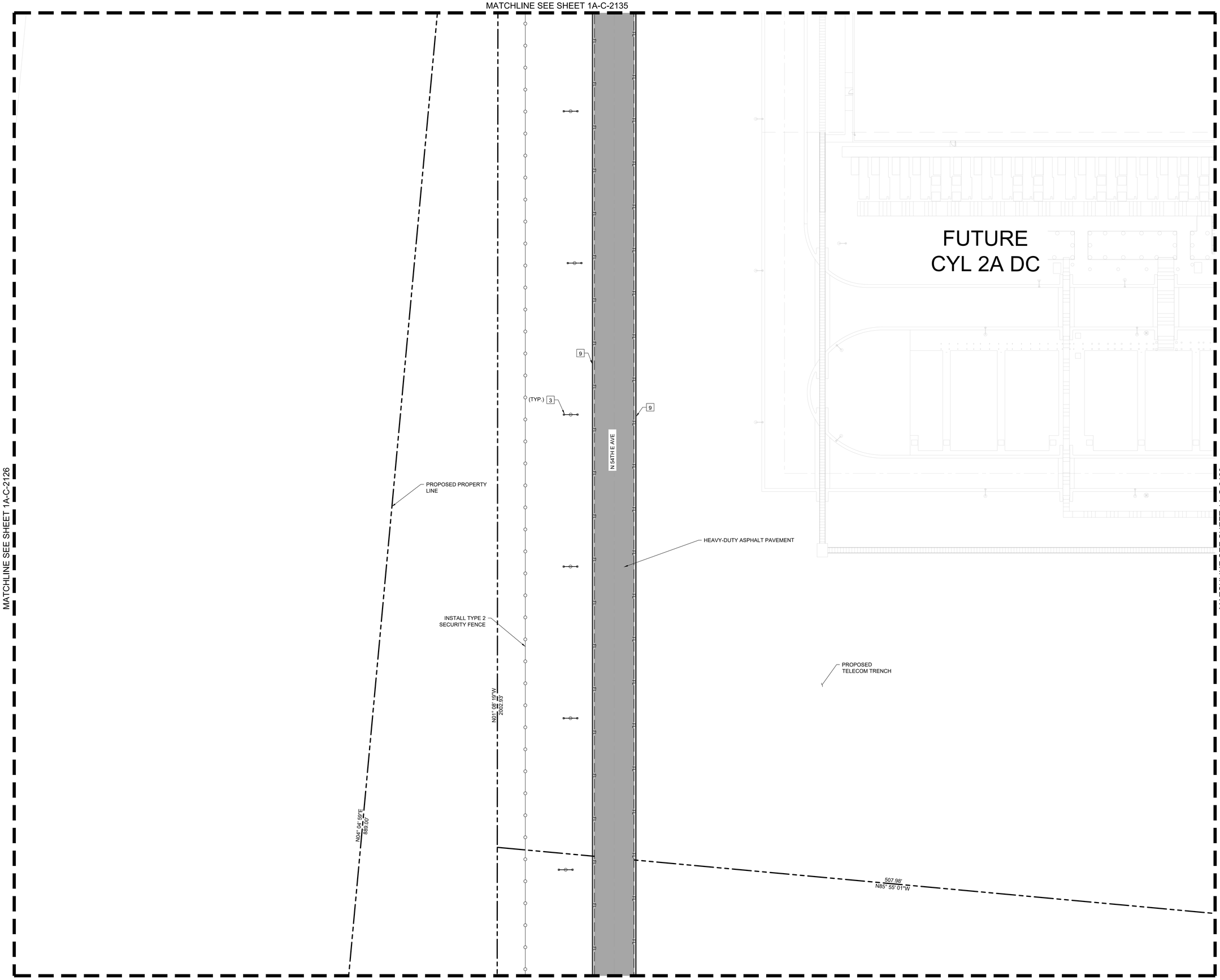
PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2126

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

HDR, INC.
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OMAHA, NE 68106
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2127

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2136

MATCHLINE SEE SHEET 1A-C-2127

MATCHLINE SEE SHEET 1A-C-2129

FUTURE
CYL 2A DC

(TYP.) 3

INSTALL TYPE 2 SECURITY FENCE

PROPOSED PROPERTY LINE

19

19

19

PROPOSED SECURITY ACCESS PATH

6" AGGREGATE SURFACING

2

PROPOSED TELECOM TRENCH

507.98'
N85° 55' 01"W

N01° 10' 57"W
66.79'

463.61'
N85° 55' 01"W

N

0' 10' 20' 40'
SCALE IN FEET

LEGEND

- PROPERTY LINE
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KEY NOTES

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C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

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ADDENDUM #1

KEYPLAN

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2128

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2137

MATCHLINE SEE SHEET 1A-C-2128

MATCHLINE SEE SHEET 1A-C-2130

PROPOSED DETENTION EASEMENT

EXISTING CONCRETE

INSTALL 8' CHAIN LINK FENCE

EXISTING SLIDE GATE VALVE CONTROL STRUCTURE

EXISTING POND OUTLET STRUCTURE

EXISTING DETENTION BASIN

PROPOSED DETENTION EASEMENT

EXISTING CONCRETE

INSTALL 8' CHAIN LINK FENCE

INSTALL 8' CHAIN LINK FENCE

PROPOSED DETENTION EASEMENT

192.99'
N62° 17' 21"W

INSTALL TYPE 2 SECURITY FENCE

225.62'
S84° 37' 46"W

(TYP.) 3

PROPOSED GRAVEL SECURITY ACCESS PATH

PROPOSED 6" AGGREGATE SURFACING

227.17'
N39° 18' 10"W

10' WIDE POND MAINTENANCE ACCESS ROAD

EXISTING POND PERIMETER GRAVEL ROAD

PROPOSED DETENTION EASEMENT

INSTALL 8' CHAIN LINK FENCE

LEGEND

- PROPERTY LINE
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- CURB AND GUTTER
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3. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
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KEY NOTES

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2. 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
3. SITE LIGHTING (TYP.), SEE ELECTRICAL PLANS
4. ACCESSIBLE PARKING (SEE DETAIL ON 1A-C-2503)
5. 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6. ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7. STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
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19. 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2106 SITE PLAN 6/18/2025 4:11 PM

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ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2129

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2129

PROPOSED DETENTION EASEMENT

INSTALL 8' CHAIN LINK FENCE

EXISTING POND PERIMETER GRAVEL ROAD

PROPOSED PROPERTY LINE

S01° 13' 59"E
2580.23'

N01° 13' 59"W
3025.94'

S01° 13' 59"E
3071.66'

LEGEND

- PROPERTY LINE
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- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
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- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
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SCALE IN FEET

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

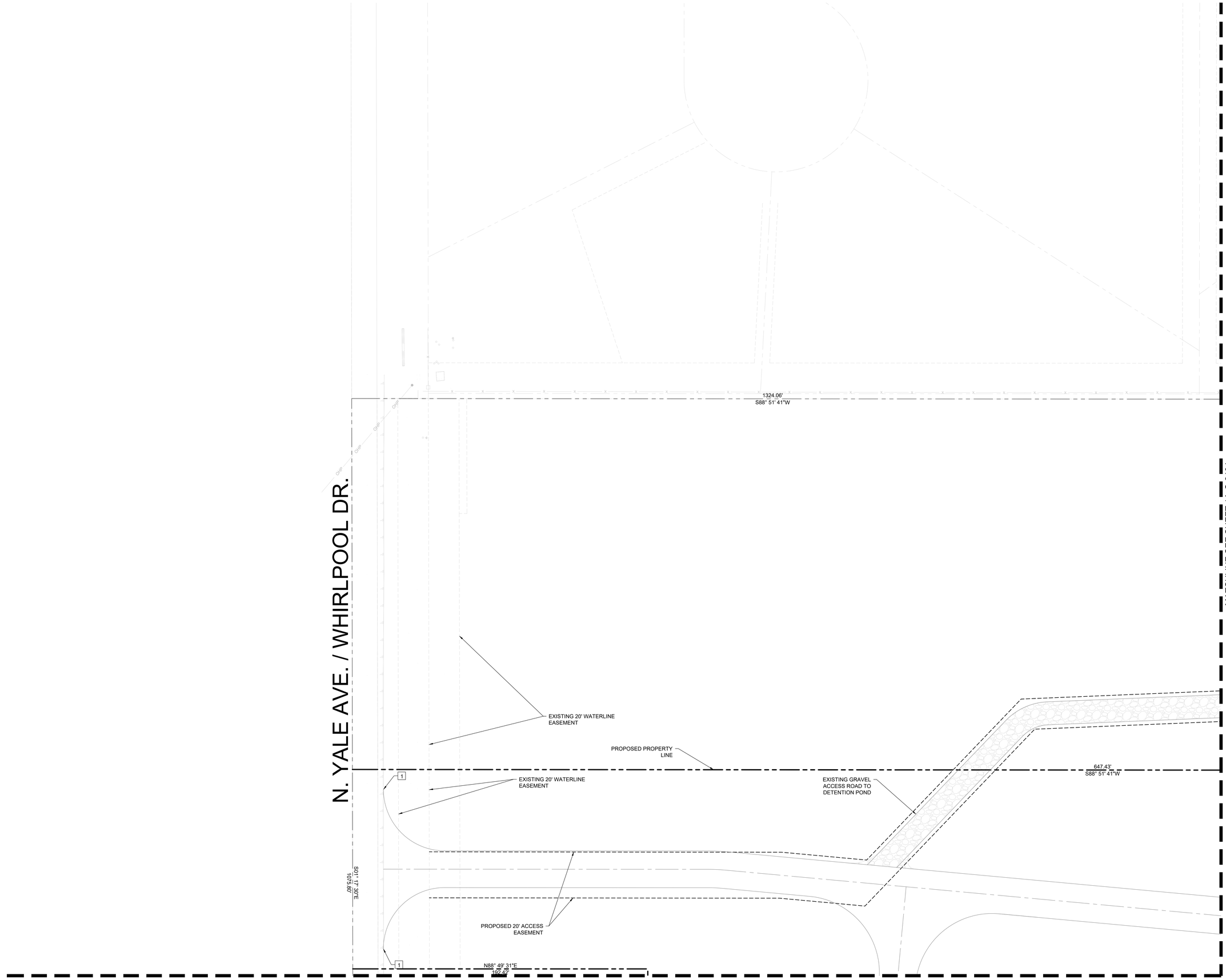
PROJ. NO.: 10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2130

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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MATCHLINE SEE SHEET 1A-C-2134

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N

0' 10' 20' 40'
SCALE IN FEET

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

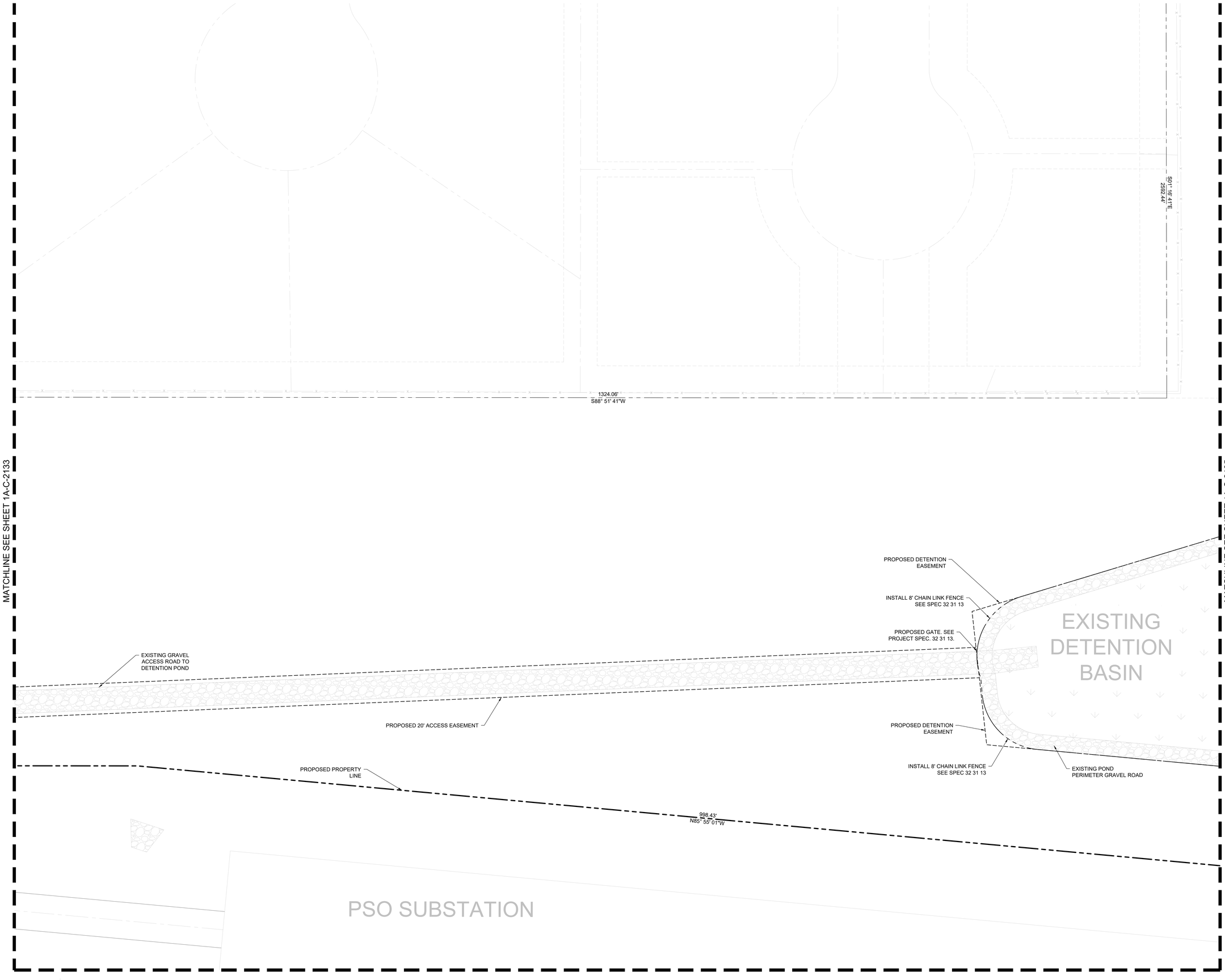
PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2133

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

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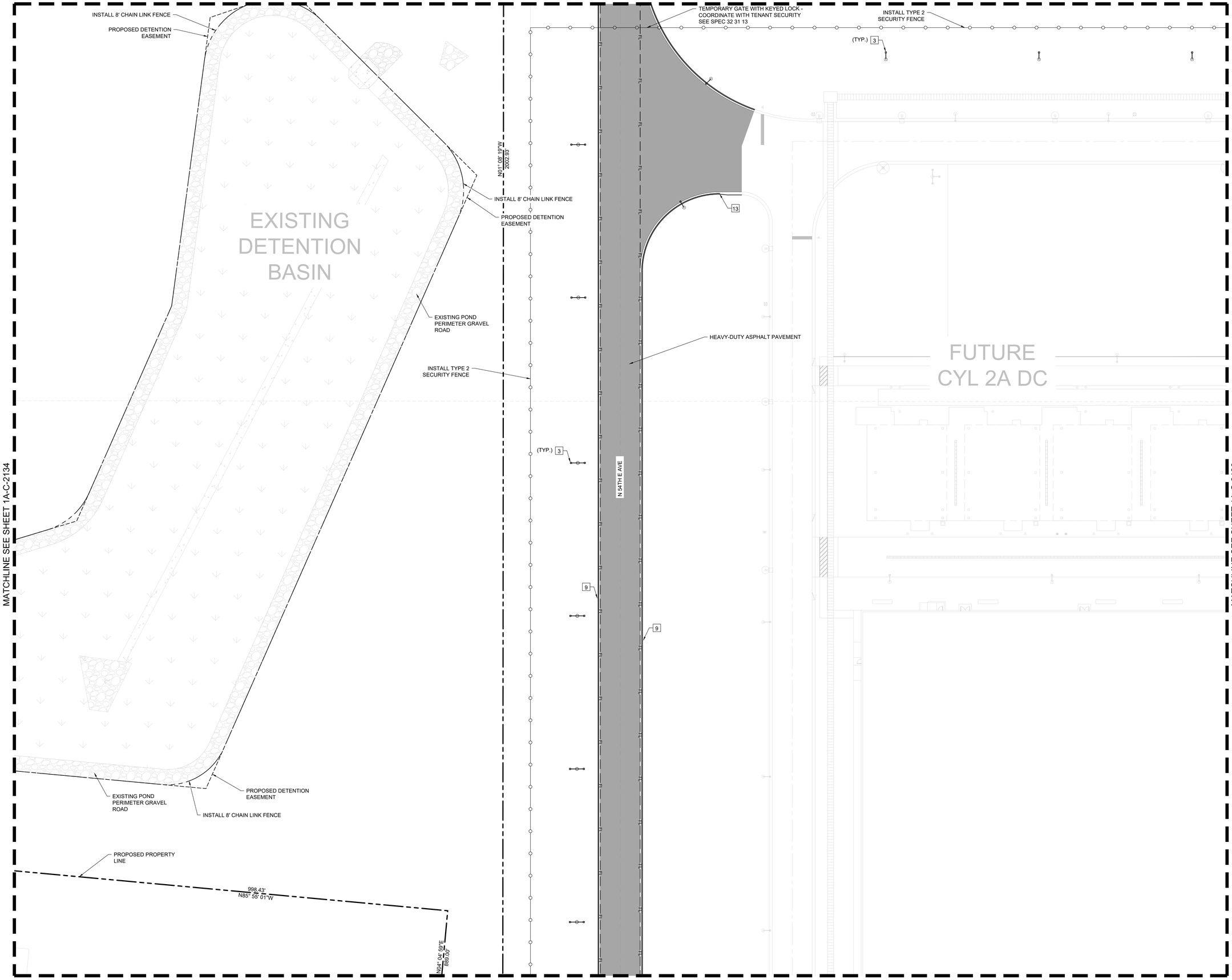

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OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

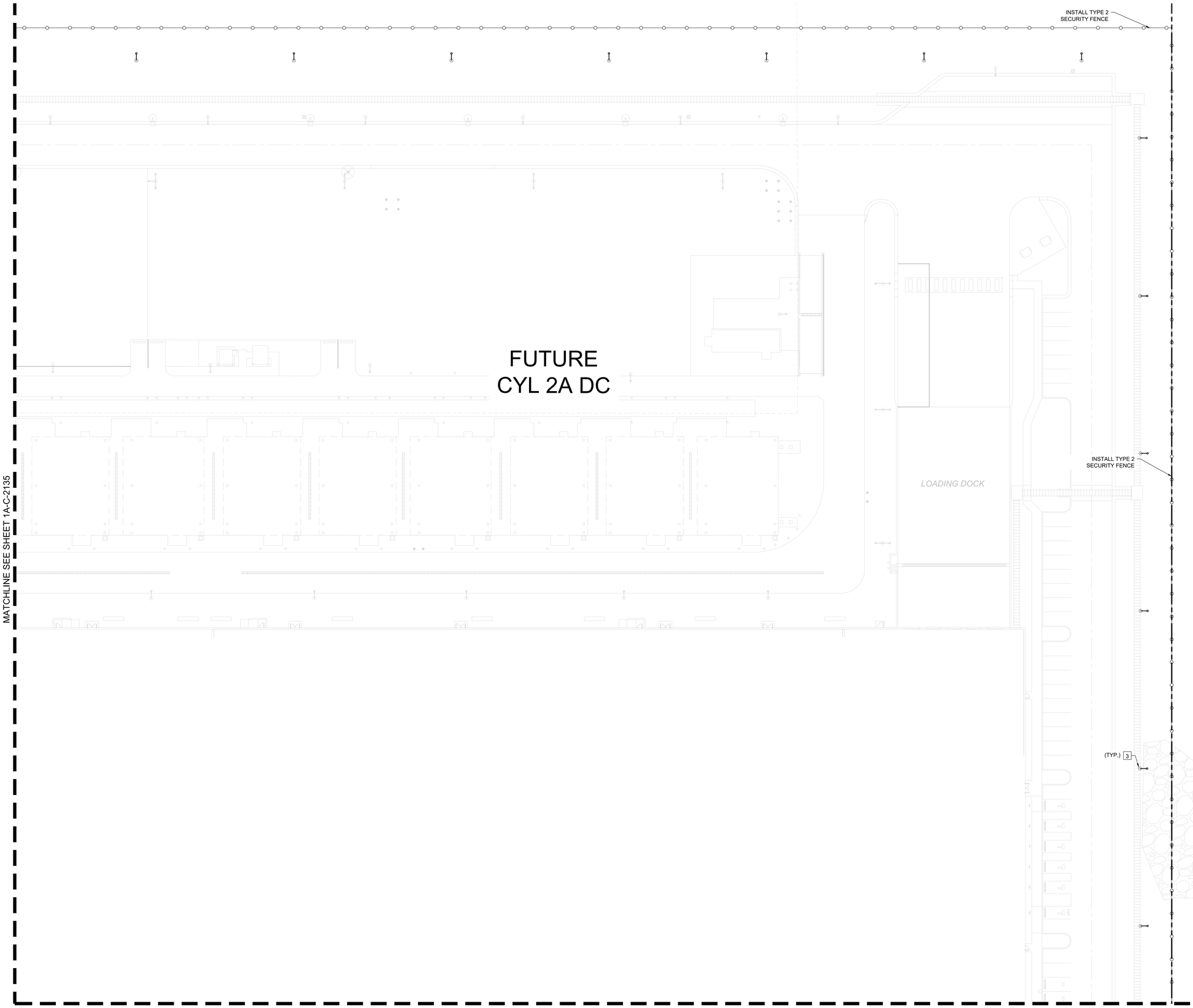
PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2135

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- FL — FIRE LANE STRIPING
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13
- CONCRETE SIDEWALK PER DETAIL 1 SHEET 1A-C-2502
- AGGREGATE SURFACING - 6" PER DETAIL 7 SHEET 1A-C-2502
- AGGREGATE SURFACING - 12" PER DETAIL 3 SHEET 1A-C-2505
- HEAVY DUTY CONCRETE PAVING PER DETAIL 3 SHEET 1A-C-2502
- MEDIUM DUTY CONCRETE PAVING PER DETAIL 4 SHEET 1A-C-2502
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 1A-C-2502
- LIGHT DUTY ASPHALT PAVING PER DETAIL 6 SHEET 1A-C-2502
- HEAVY DUTY ASPHALT PAVING PER DETAIL 5 SHEET 1A-C-2502
- FUEL DELIVERY AREA
- STRUCTURAL CONCRETE SLAB. REFERENCE STRUCTURAL PLANS.

NOTES

1. REFER TO SITE GEOMETRIC SHEETS 1A-C-2303 - 1A-C-2343 FOR SITE DIMENSIONS AND RADII.
2. REFER TO ARCHITECTURAL AND PLUMBING PLANS FOR ALL INFORMATION ON PROPOSED BUILDING INFRASTRUCTURE AND CONNECTIONS.
3. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
4. WHERE PAVEMENT IS PLACED AROUND EXISTING AND PROPOSED MANHOLES, VAULTS AND OTHER UNDERGROUND STRUCTURES, CONTRACTOR TO INSTALL PAVEMENT TO THE SAME ELEVATION AS STRUCTURE TOP AND ENSURE A SMOOTH TRANSITION FROM PROPOSED PAVEMENT TO TOP OF STRUCTURE.
5. ALL FENCING SHALL BE IN ACCORDANCE WITH PROJECT SPEC. SECTION 32 31 13 - FENCES AND GATES.

KEY NOTES

1. CONNECT TO EXISTING CURB
2. 5' CONCRETE SIDEWALK (UNLESS OTHERWISE NOTED) (SEE DETAIL 1, SHEET 1A-C-2502
3. SITE LIGHTING (TYP.), SEE ELECTRICAL PLANS
4. ACCESSIBLE PARKING (SEE DETAIL ON 1A-C-2503)
5. 9'X18' PARKING SPACES (SEE DETAIL ON SHEET 1A-C-2503)
6. ACCESSIBLE (ADA) COMPLIANT CURB RAMP (SEE DETAIL 9 ON SHEET 1A-C-2503)
7. STRIPED CROSS WALK (SEE DETAIL 4, SHEET 1A-C-2501)
8. SECURITY CAMERA POLE (TYP.), SEE SECURITY PLANS.
9. STANDARD CURB AND GUTTER (SEE DETAIL 2 ON SHEET 1A-C-2504)
10. FIXED SITE BOLLARD (SEE DETAIL 5, SHEET 1A-C-2501)
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19. 5' X 5' LANDING PAD (SEE DETAIL SHEET 1A-C-2500)
20. TRENCH GRADE CROSSING CONCRETE. REFERENCE TELECOM AND ELECTRIC DETAILS
21. TAILGATING SENSOR ARRAY

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2125 SITE PLAN 6/18/2025 5:40 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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TULSA COUNTY, OK

PROJ. NO.:10434535

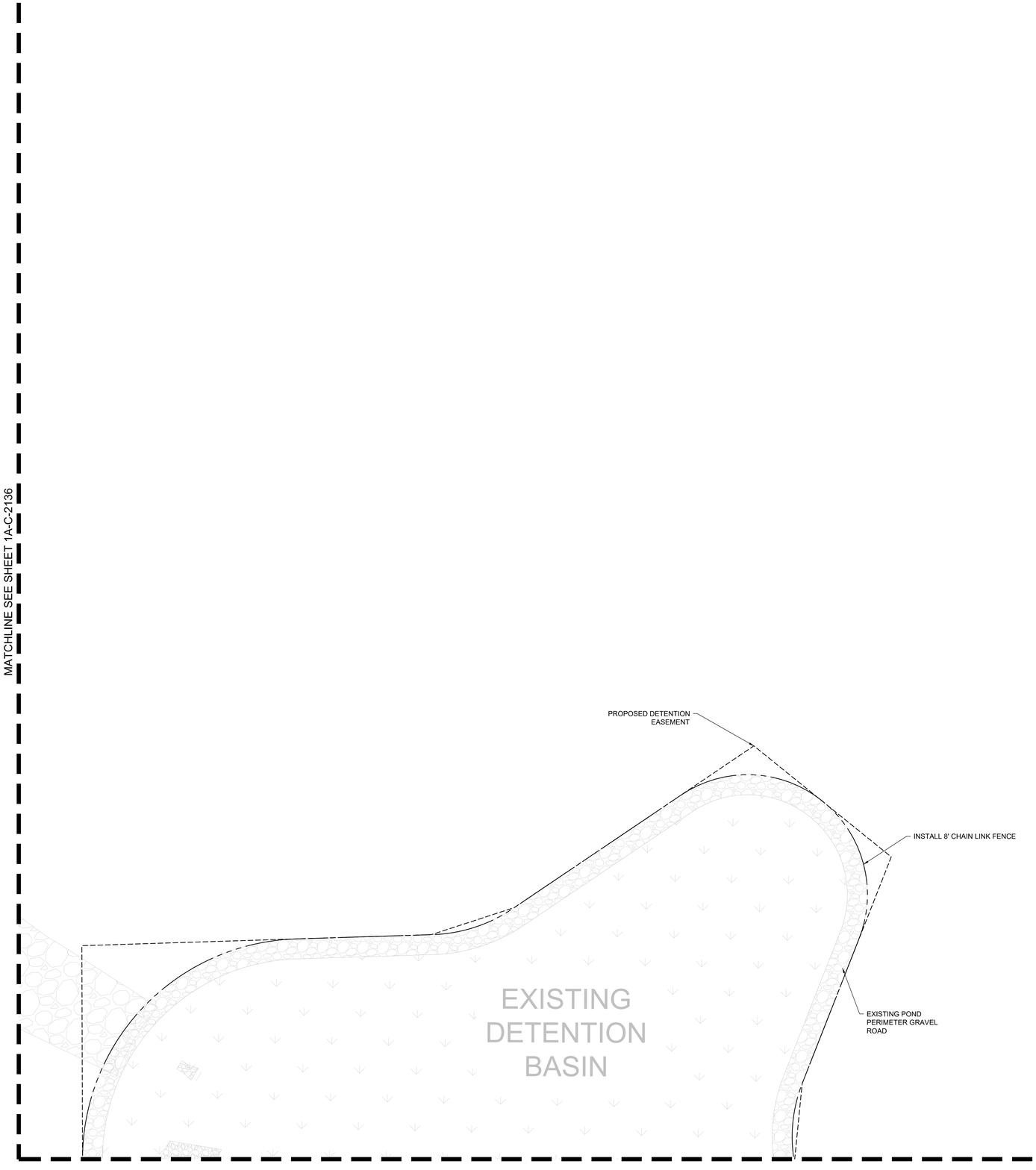
SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2136

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2136



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N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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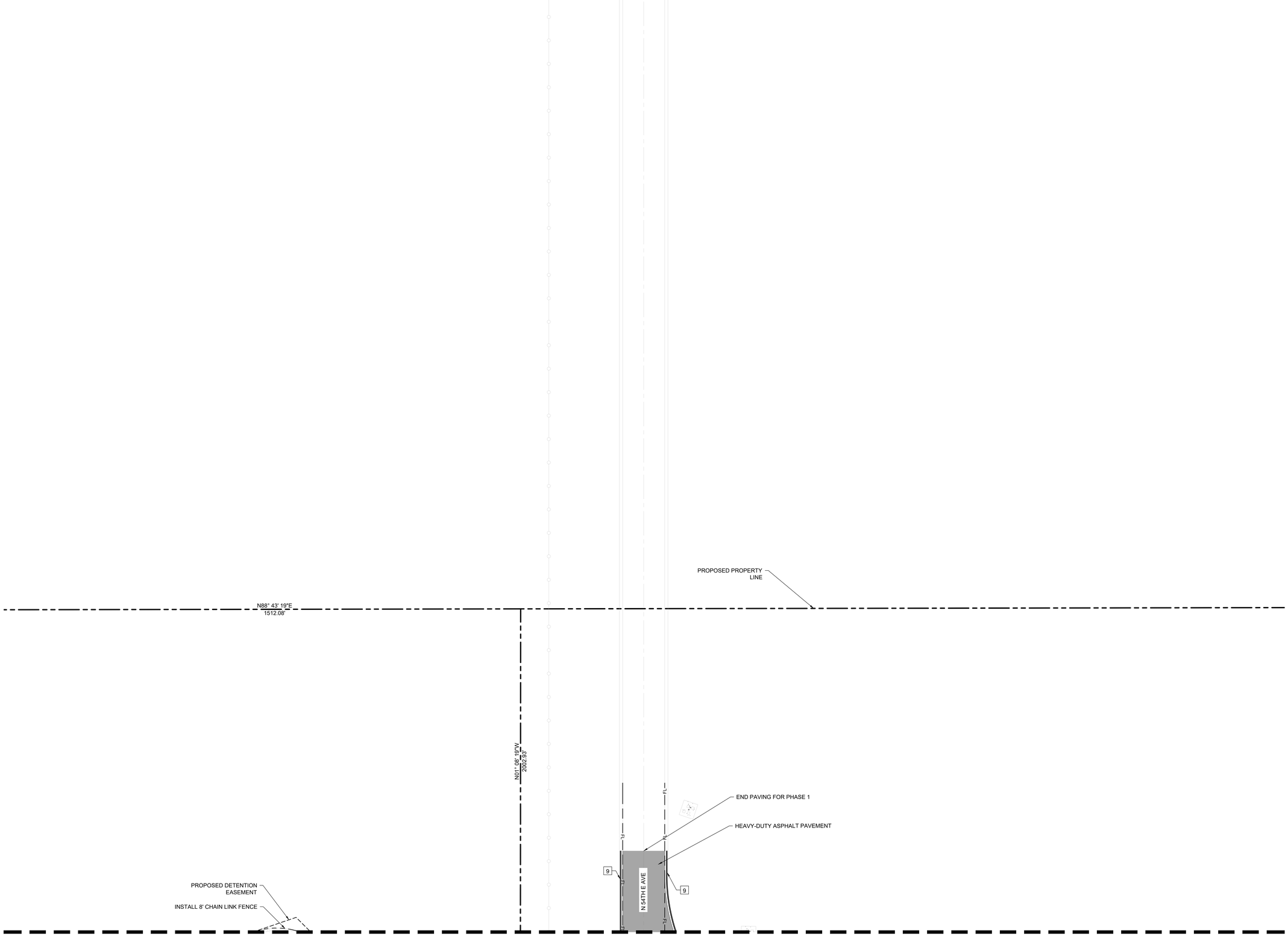
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2137
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

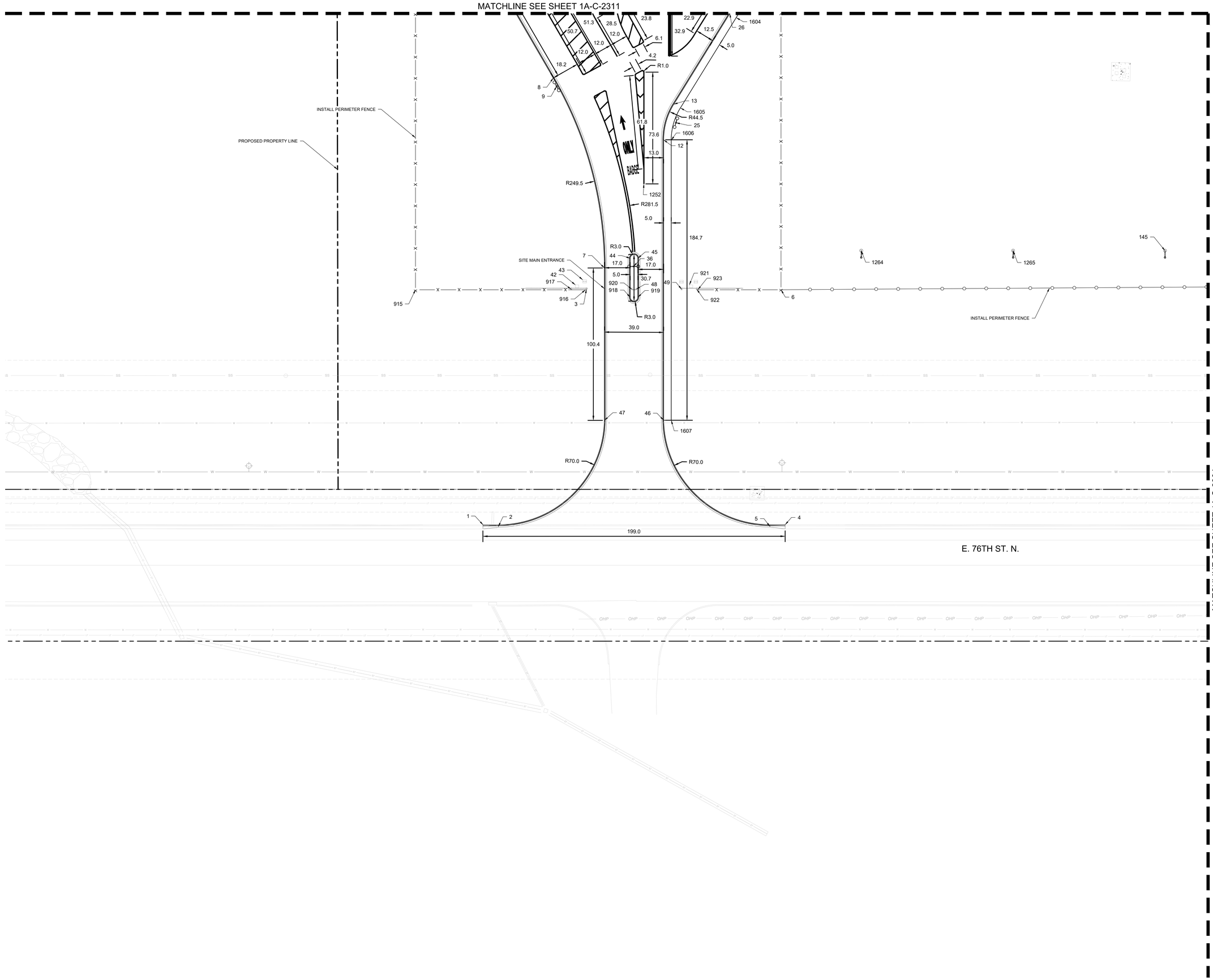
PROJ. NO.:10434535

SITE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2143

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

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- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13

NOTES

1. DIMENSIONS ARE TO BACK OF CURB UNLESS NOTED OTHERWISE.
2. CURB RADII ARE 3' UNLESS NOTED OTHERWISE.
3. REFER TO ARCHITECTURAL AND PLUMBING PLANS FOR ALL INFORMATION ON PROPOSED BUILDING INFRASTRUCTURE AND CONNECTIONS.
4. PAVEMENT JOINTS AS PER DETAIL 16 ON SHEET 1A-C-2501 AND GEOTECHNICAL RECOMMENDATIONS
5. PARKING STRIPS PER DETAIL 18 SHEET 1A-C-2501. LAYOUT PER PLAN
6. SEE SHEETS C-3200 - C-3321 FOR STORM DRAIN
7. SEE SHEETS C-5000 - C-5501 FOR SANITARY SEWER
8. SEE SHEETS C-8000 - C-8145 FOR COMPOSITE UTILITIES
9. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
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SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2303

PAPER SIZE: E (36"x48")
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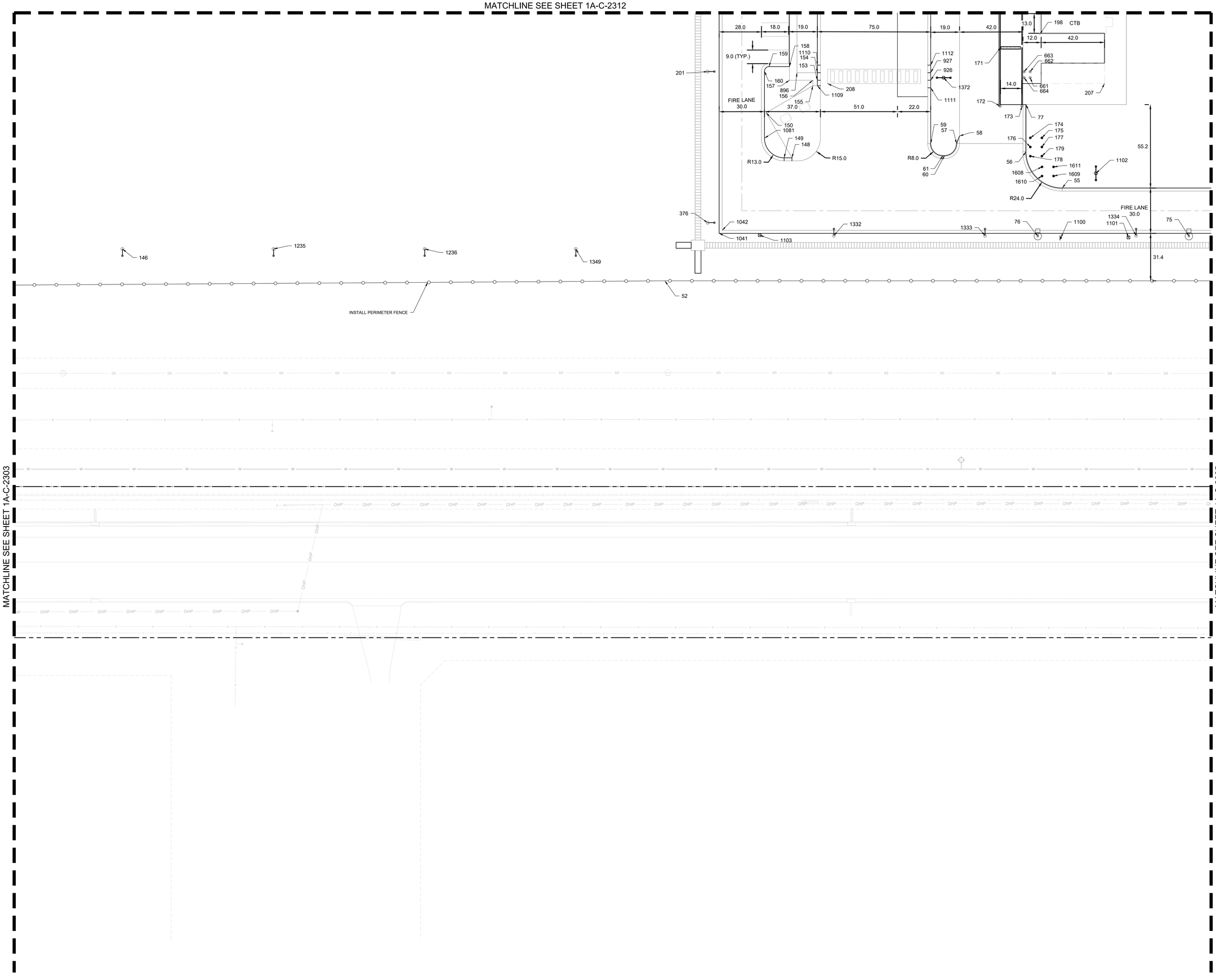
MATCHLINE SEE SHEET 1A-C-2312



MATCHLINE SEE SHEET 1A-C-2303

MATCHLINE SEE SHEET 1A-C-2305

LEGEND

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N

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HDR, INC.
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MATCHLINE SEE SHEET 1A-C-2313

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6. SEE SHEETS C-3200 - C-3321 FOR STORM DRAIN
7. SEE SHEETS C-5000 - C-5501 FOR SANITARY SEWER
8. SEE SHEETS C-8000 - C-8145 FOR COMPOSITE UTILITIES
9. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

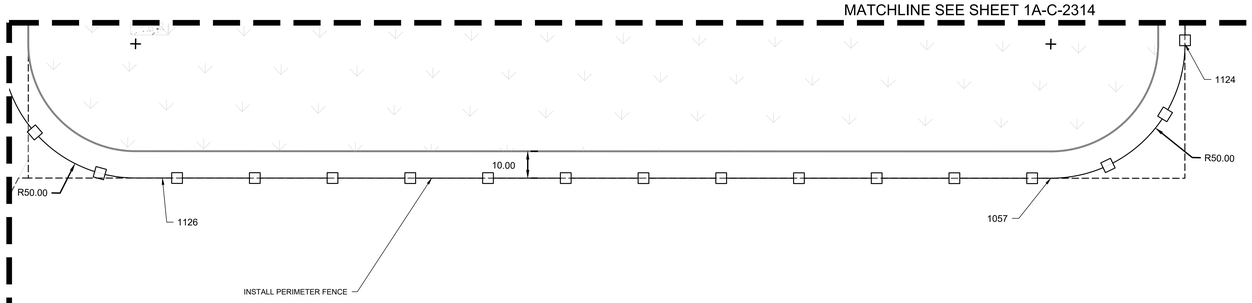
SITE GEOMETRIC PLAN

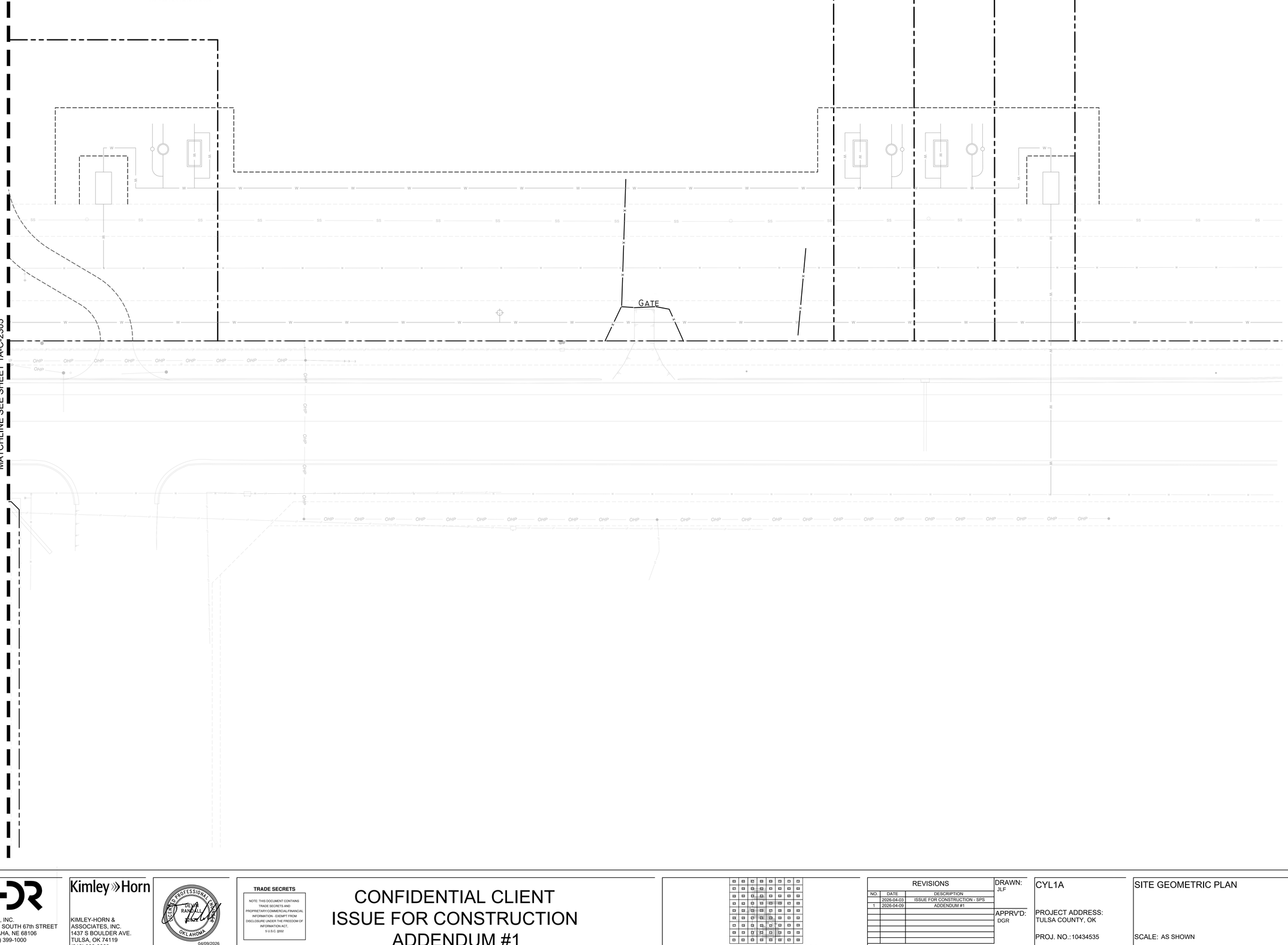
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2305

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2314





MATCHLINE SEE SHEET 1A-C-2305

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2306 SITE GEOMETRIC PLAN 6/30/2025 1:19 PM

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OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

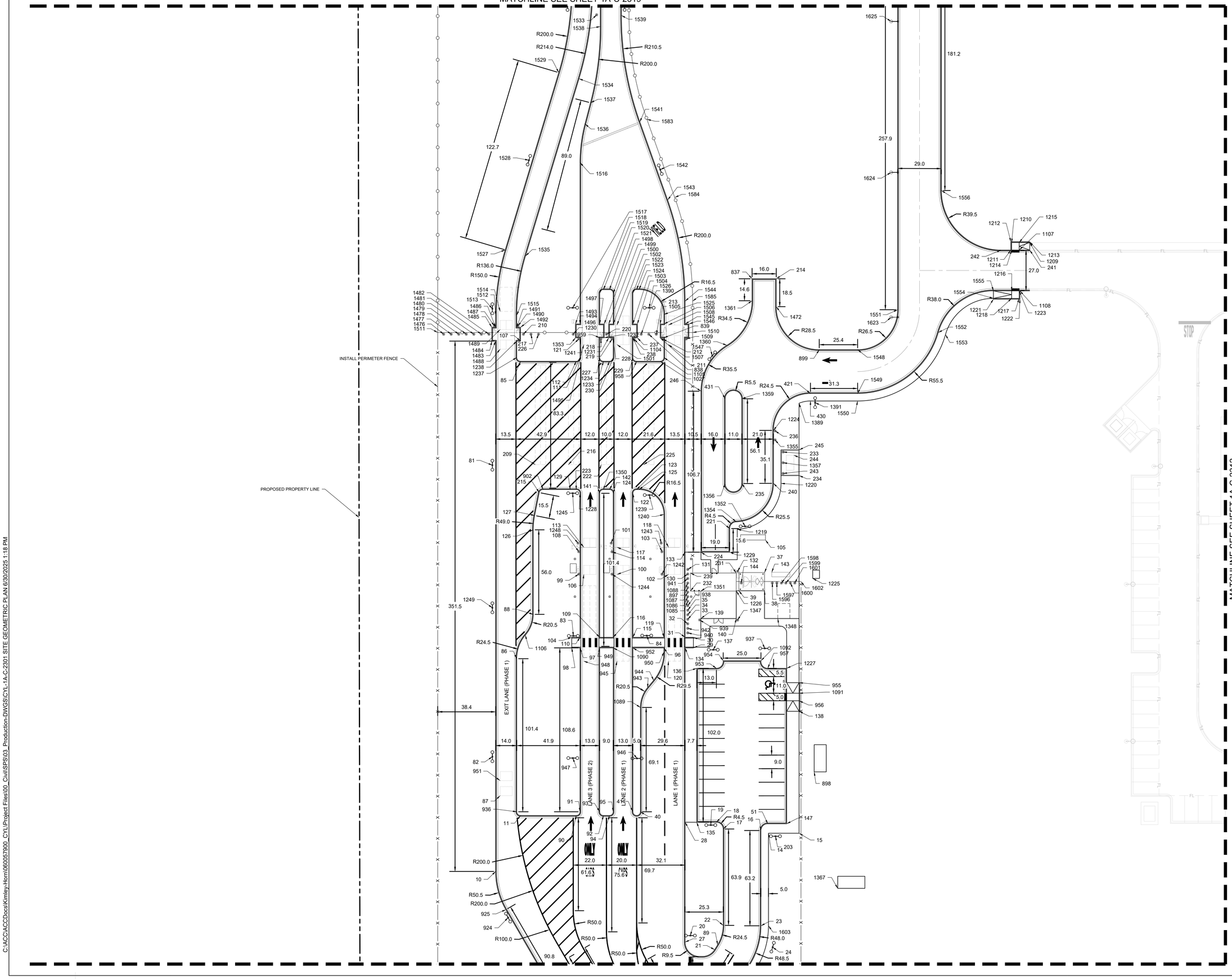
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2306
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2319



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWG\SICYL-1A-C-2301 SITE GEOMETRIC PLAN 6/30/2025 1:18 PM

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OMAHA, NE 68106
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

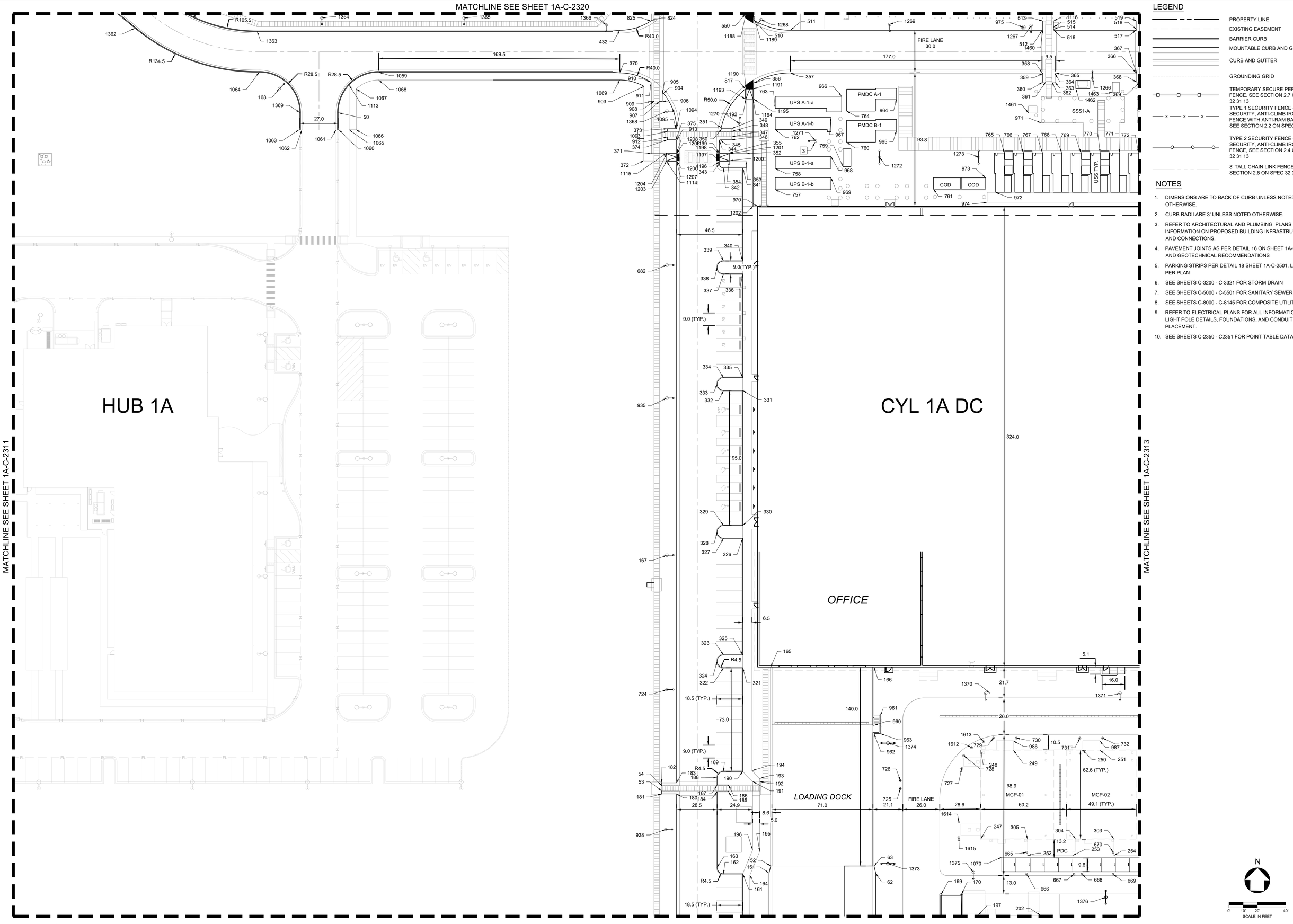
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2311

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
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10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2301 SITE GEOMETRIC PLAN 6/30/2025 1:18 PM

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OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN GRANT RANDALL — OKLAHOMA — 04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2312

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2321

MATCHLINE SEE SHEET 1A-C-2312

MATCHLINE SEE SHEET 1A-C-2314

CYL 1A DC

CYL 1A MYD

SHELL 1

SHELL 2

GPS1

SSS1-B

SSS1-A

GPS1

SSS1-B

FIRE LANE 30.0

FIRE LANE 26.0

FIRE LANE 30.0

USS TYP.

MCP-03 MCP-04 MCP-05 MCP-06 MCP-07 MCP-08 MCP-09 MCP-10 MCP-11 MCP-12

PDC

INSTALL PERIMETER FENCE

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2301 SITE GEOMETRIC PLAN 6/30/2025 1:18 PM

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OKLAHOMA
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	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2313

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2322

MATCHLINE SEE SHEET 1A-C-2313

EXISTING DETENTION BASIN

10.00

INSTALL PERIMETER FENCE

1054

R30.00

1055

1056

R50.00

1125

150' GRAND RIVER DAM AUTHORITY EASEMENT

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2306 SITE GEOMETRIC PLAN 6/30/2025 1:19 PM

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OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

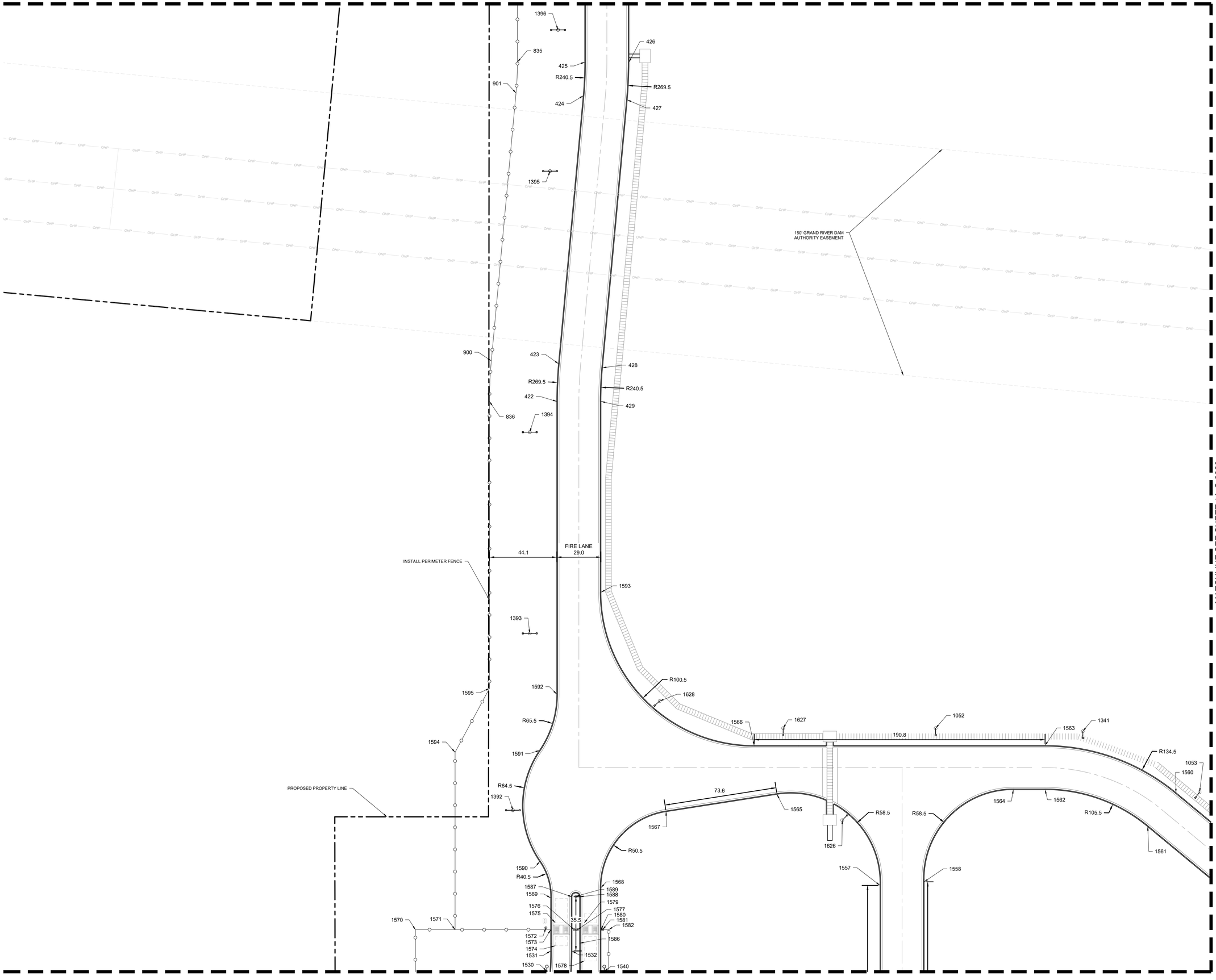
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2314

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2301 SITE GEOMETRIC PLAN 6/30/2025 1:18 PM

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OMAHA, NE 68106
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KIMLEY-HORN &
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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KEYPLAN

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2319

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2328

MATCHLINE SEE SHEET 1A-C-2319

MATCHLINE SEE SHEET 1A-C-2321

LEGEND

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150' GRAND RIVER DAM AUTHORITY EASEMENT

CYL 1A EYD

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2301 SITE GEOMETRIC PLAN 6/30/2025 1:18 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

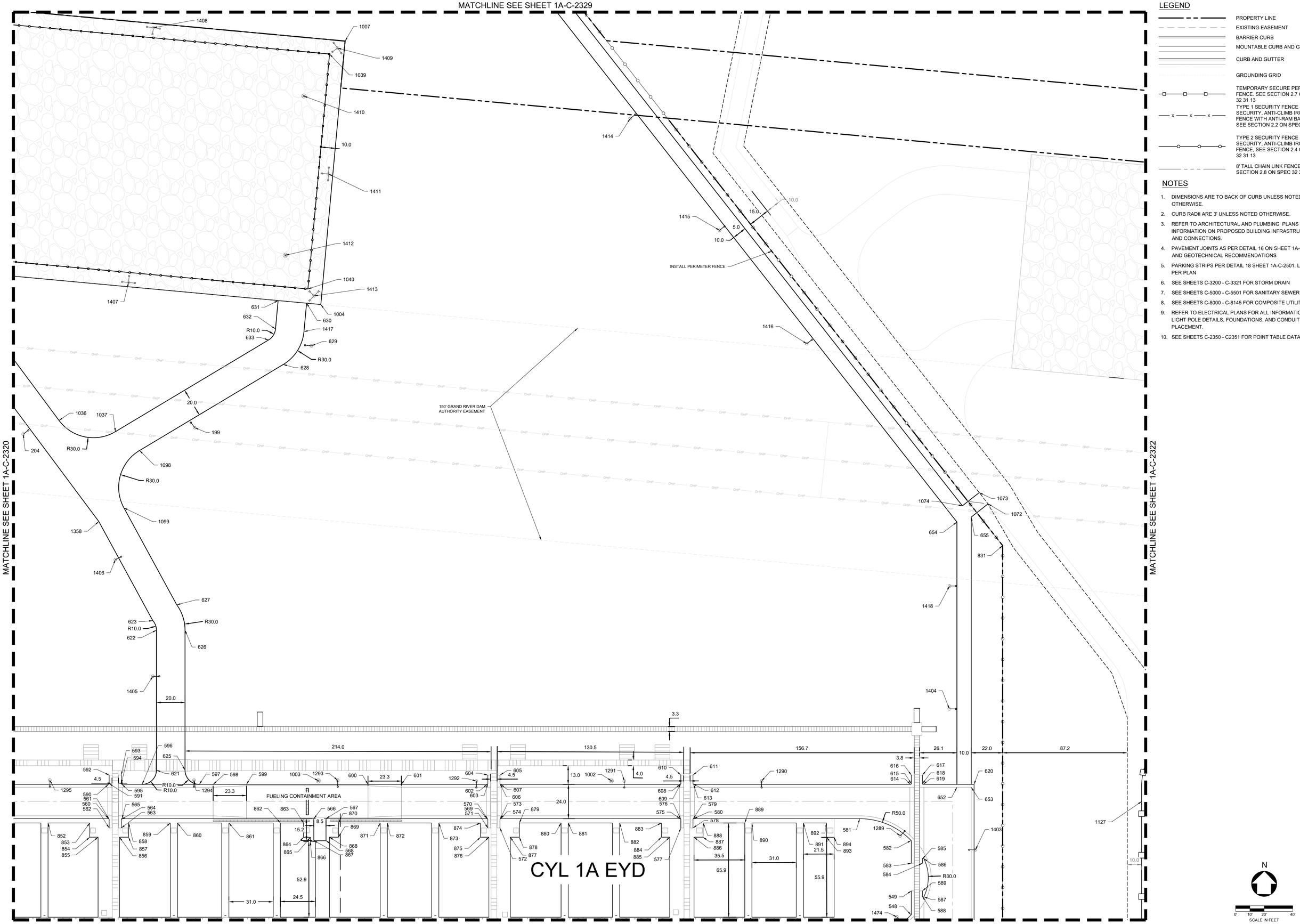
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2320

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13

NOTES

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7. SEE SHEETS C-5000 - C-5501 FOR SANITARY SEWER
8. SEE SHEETS C-8000 - C-8145 FOR COMPOSITE UTILITIES
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10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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KEYPLAN

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2321

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-C-2330

MATCHLINE SEE SHEET 1A-C-2321

R50.00

1031

1005

R50.00

1128

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
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N

0' 10' 20' 40'
SCALE IN FEET

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TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2322

PAPER SIZE: E (36"x48")
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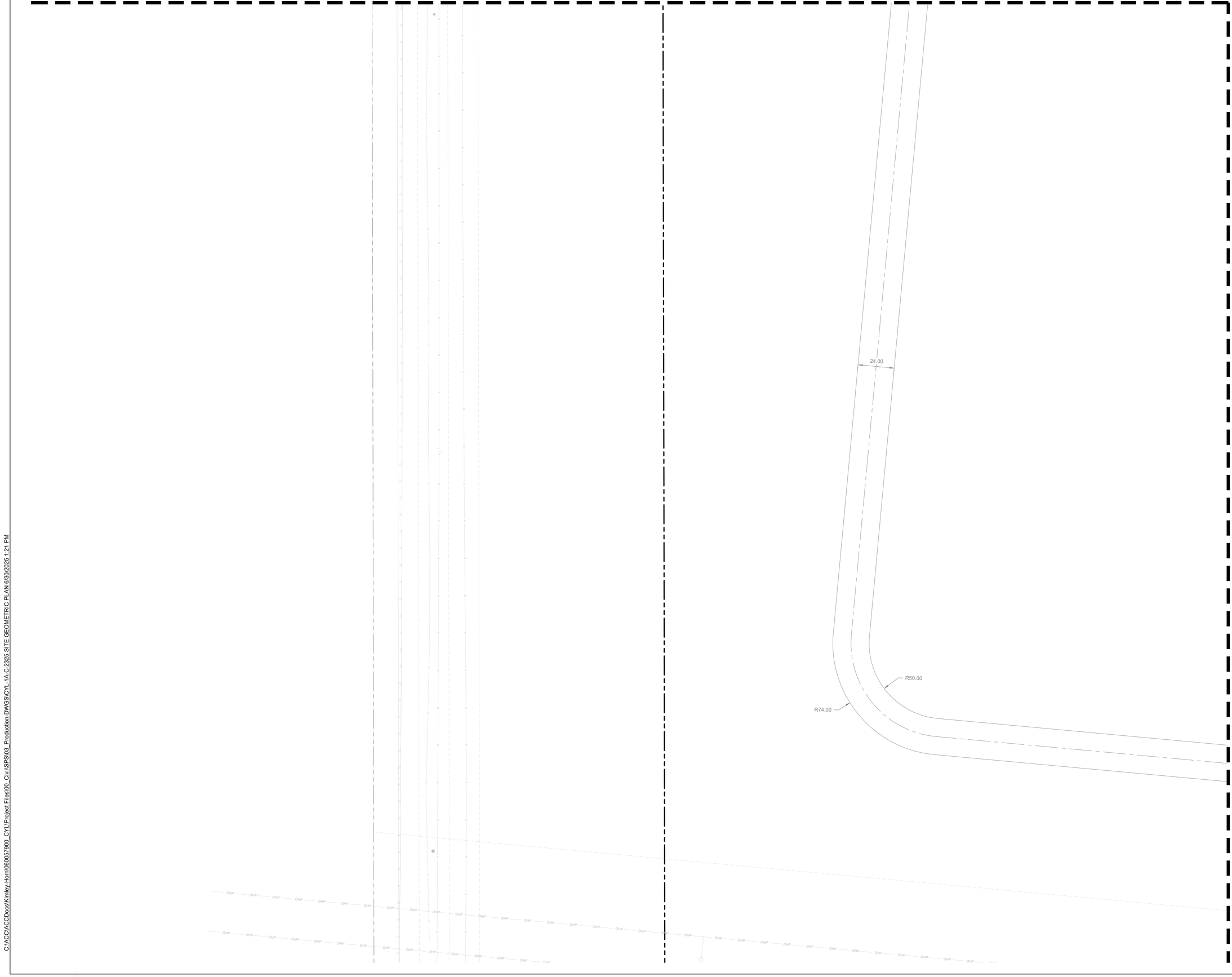
MATCHLINE SEE SHEET 1A-C-2333



LEGEND

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N

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SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2325

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-C-2325

MATCHLINE SEE SHEET 1A-C-2327

24.00

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LEGEND

- PROPERTY LINE
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N

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SCALE IN FEET

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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2326

PAPER SIZE: E (36"x48")
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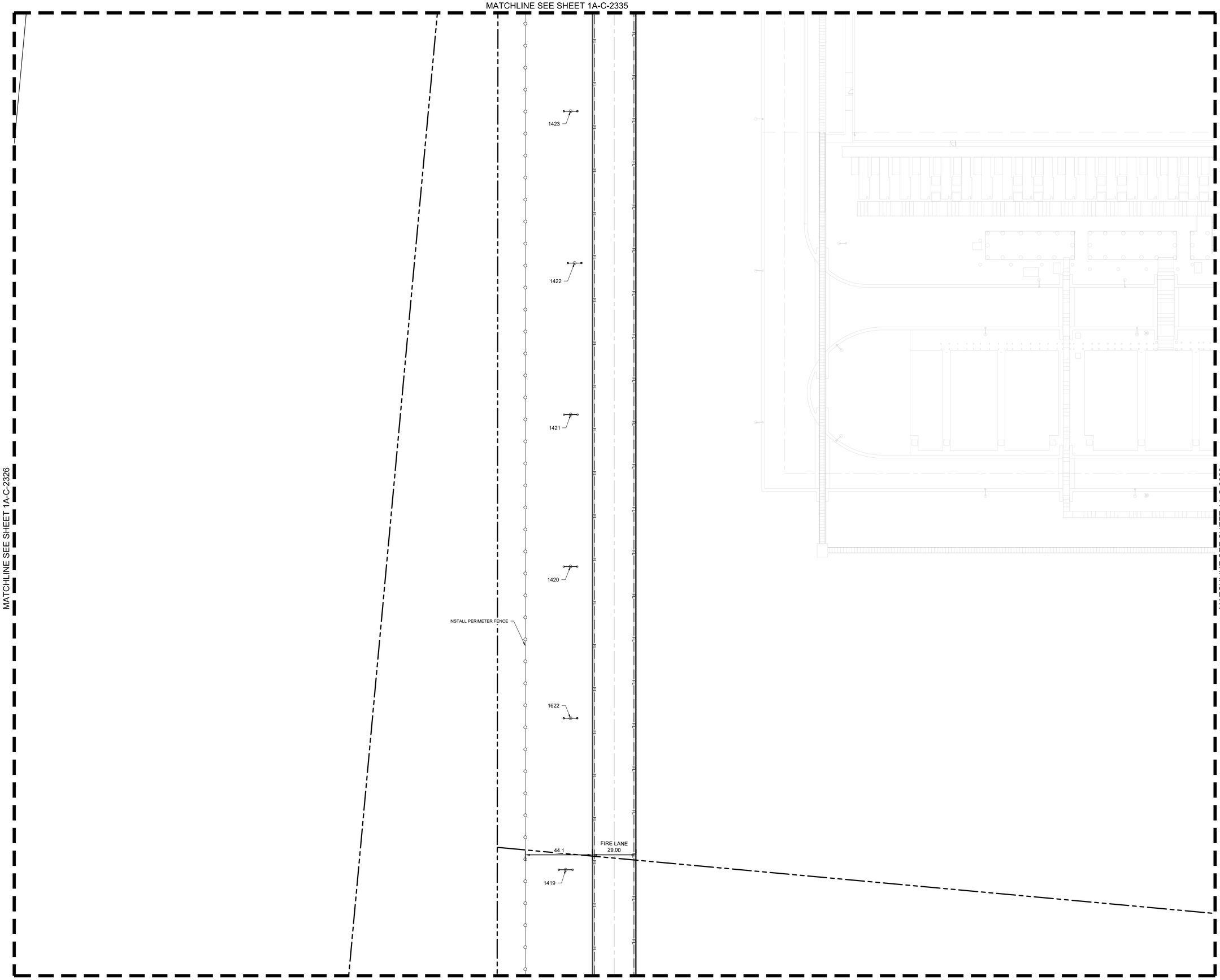

LEGEND

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(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32627
OKLAHOMA
04/09/2026

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CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2327

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

SCALE: AS SHOWN

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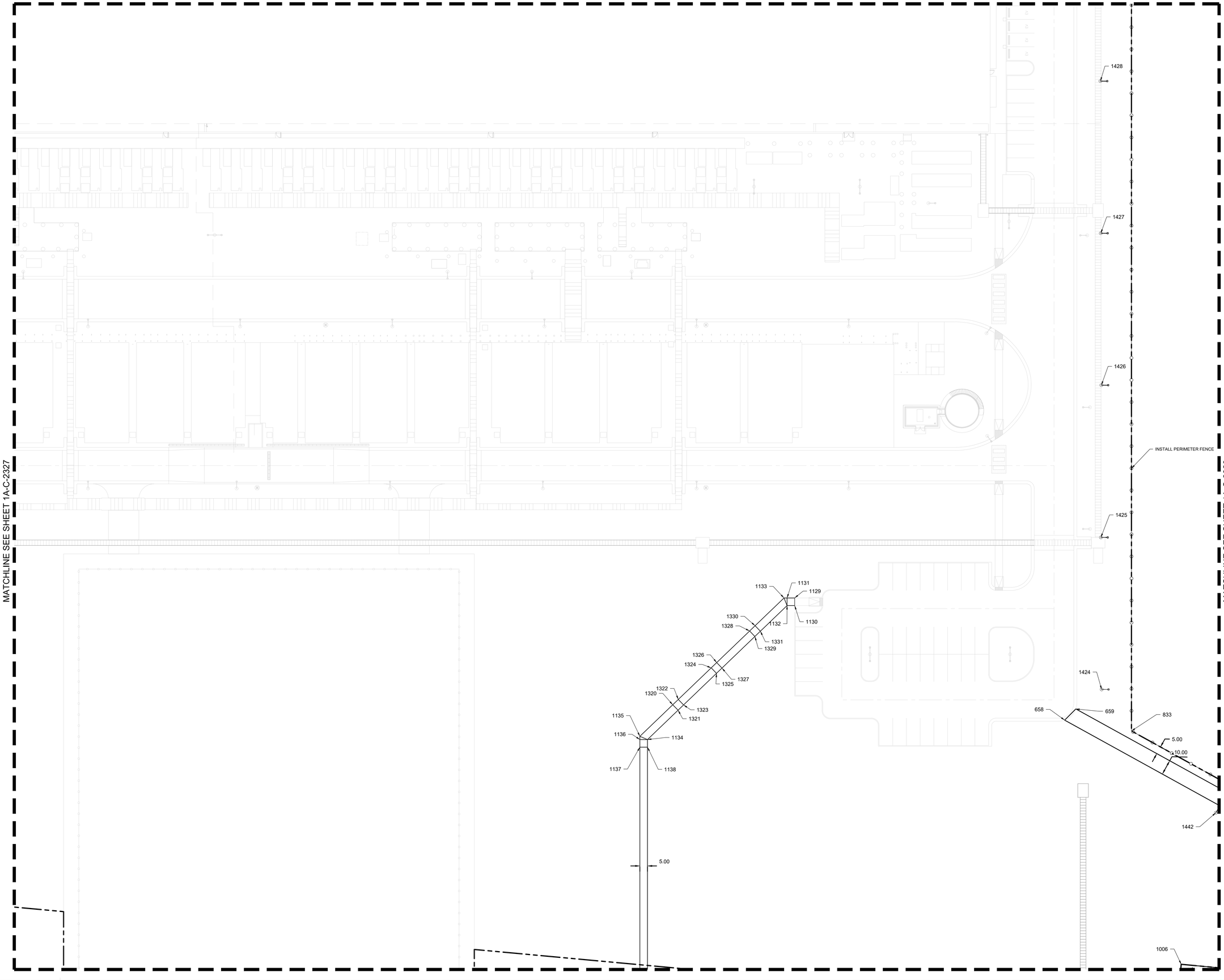

MATCHLINE SEE SHEET 1A-C-2327

MATCHLINE SEE SHEET 1A-C-2329

LEGEND

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2328

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8

MATCHLINE SEE SHEET 1A-C-2328

MATCHLINE SEE SHEET 1A-C-2330

EXISTING DETENTION BASIN

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1013
1012
R27.16
1011
1010
R72.00
1015
R90.00
1008
10.00
1429
INSTALL PERIMETER FENCE
832
1303
1250
5.00
657
10.00
656
1471
1251
1430
1432
1433
R69.32
1009

LEGEND

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N

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SCALE IN FEET

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CYL1A
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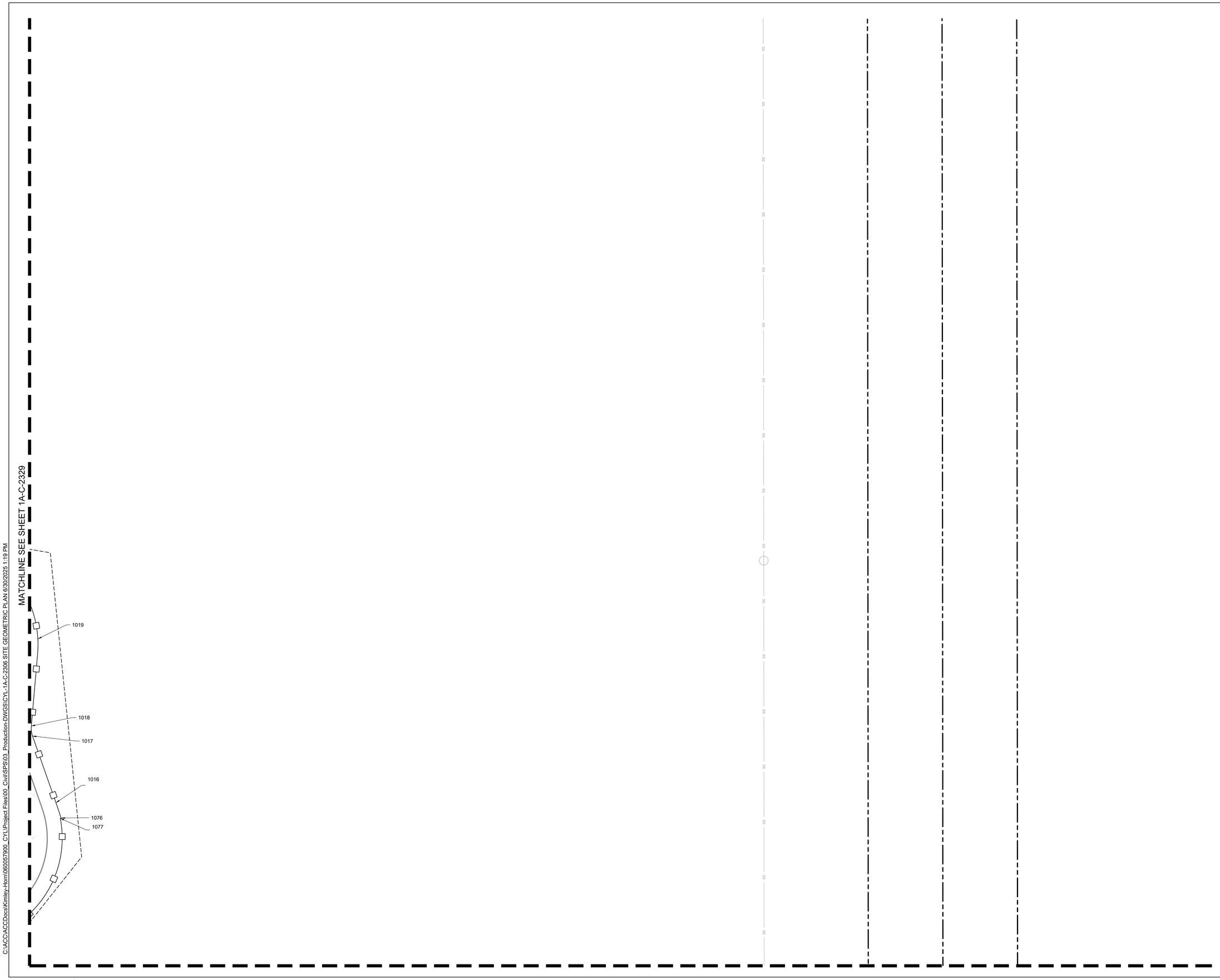
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2329
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32621
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

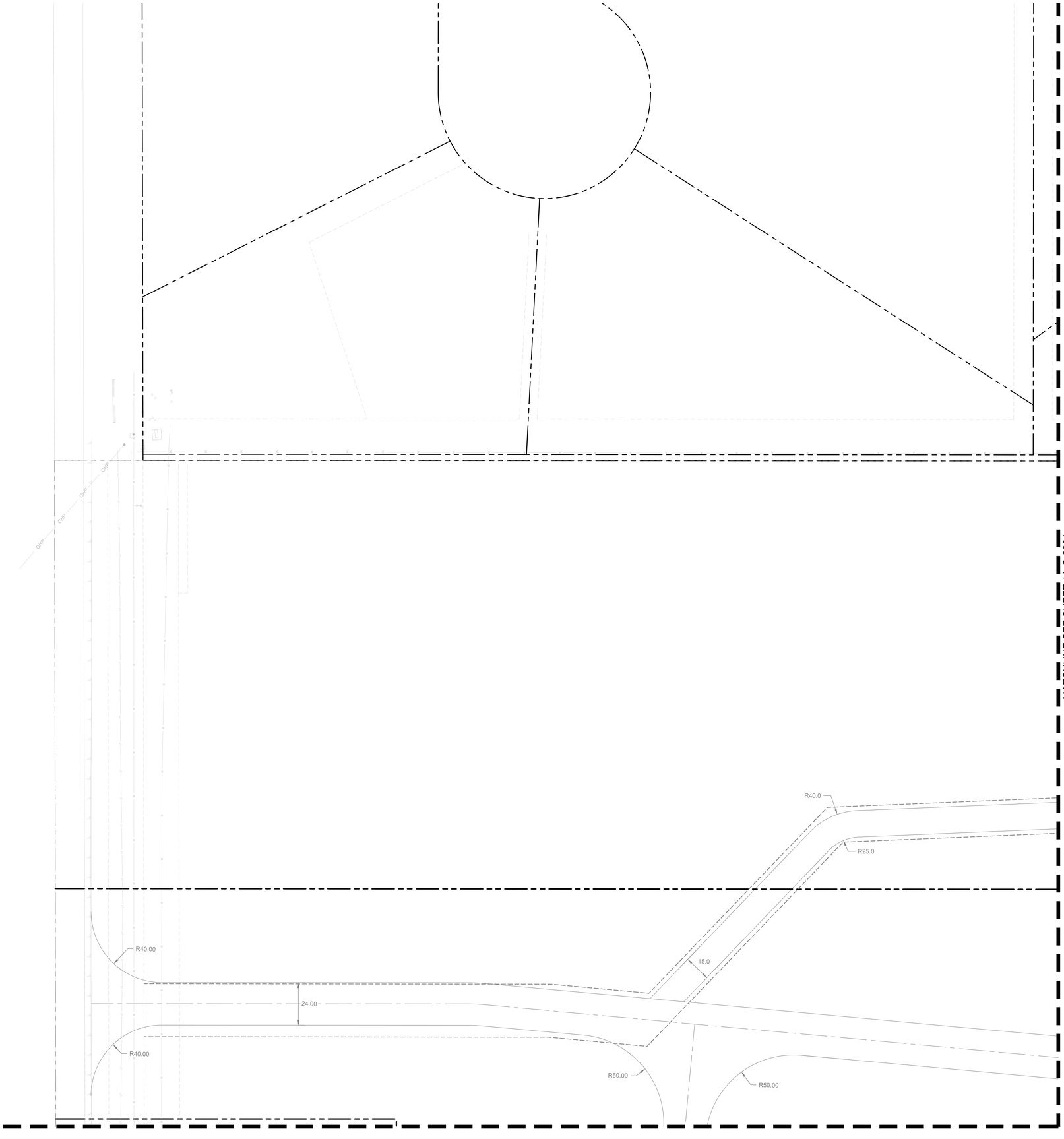
PROJ. NO.:10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2330

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
- CURB AND GUTTER
- GROUNDING GRID
- TEMPORARY SECURE PERIMETER FENCE. SEE SECTION 2.7 ON SPEC 32 31 13
- TYPE 1 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE WITH ANTI-RAM BARRIER. SEE SECTION 2.2 ON SPEC 32 31 13
- TYPE 2 SECURITY FENCE - HIGH SECURITY, ANTI-CLIMB IRON FENCE, SEE SECTION 2.4 ON SPEC 32 31 13
- 8' TALL CHAIN LINK FENCE. SEE SECTION 2.8 ON SPEC 32 31 13

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9. REFER TO ELECTRICAL PLANS FOR ALL INFORMATION ON LIGHT POLE DETAILS, FOUNDATIONS, AND CONDUIT PLACEMENT.
10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

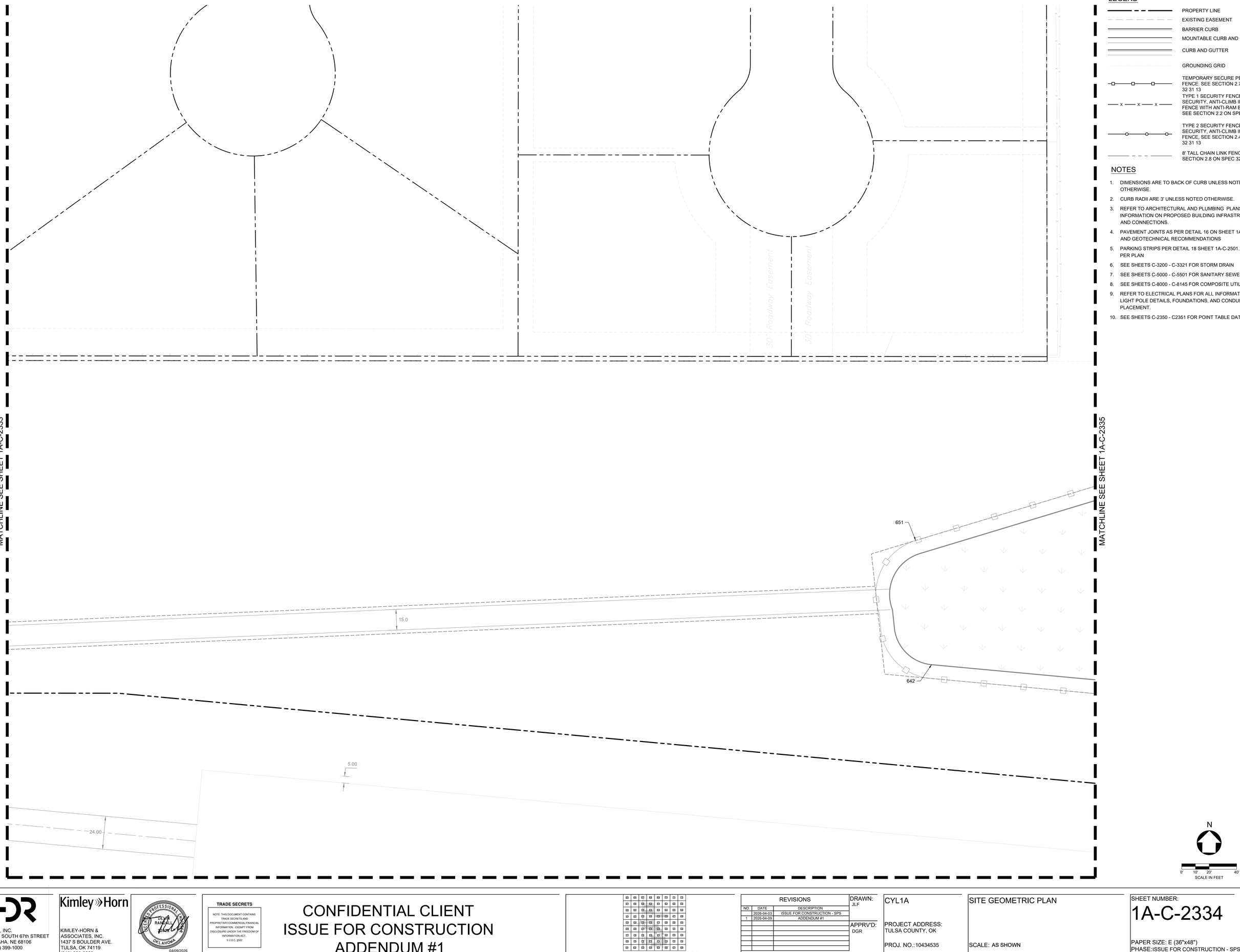
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2333

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

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10. SEE SHEETS C-2350 - C2351 FOR POINT TABLE DATA

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790O_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2325 SITE GEOMETRIC PLAN 6/30/2025 1:21 PM

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2334

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-2343

MATCHLINE SEE SHEET 1A-C-2334

MATCHLINE SEE SHEET 1A-C-2336

EXISTING DETENTION BASIN

INSTALL PERIMETER FENCE

INSTALL PERIMETER FENCE

R110.50

R50.50

59.30

44.1

29.00

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- BARRIER CURB
- MOUNTABLE CURB AND GUTTER
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N

0' 10' 20' 40'
SCALE IN FEET

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DEAN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

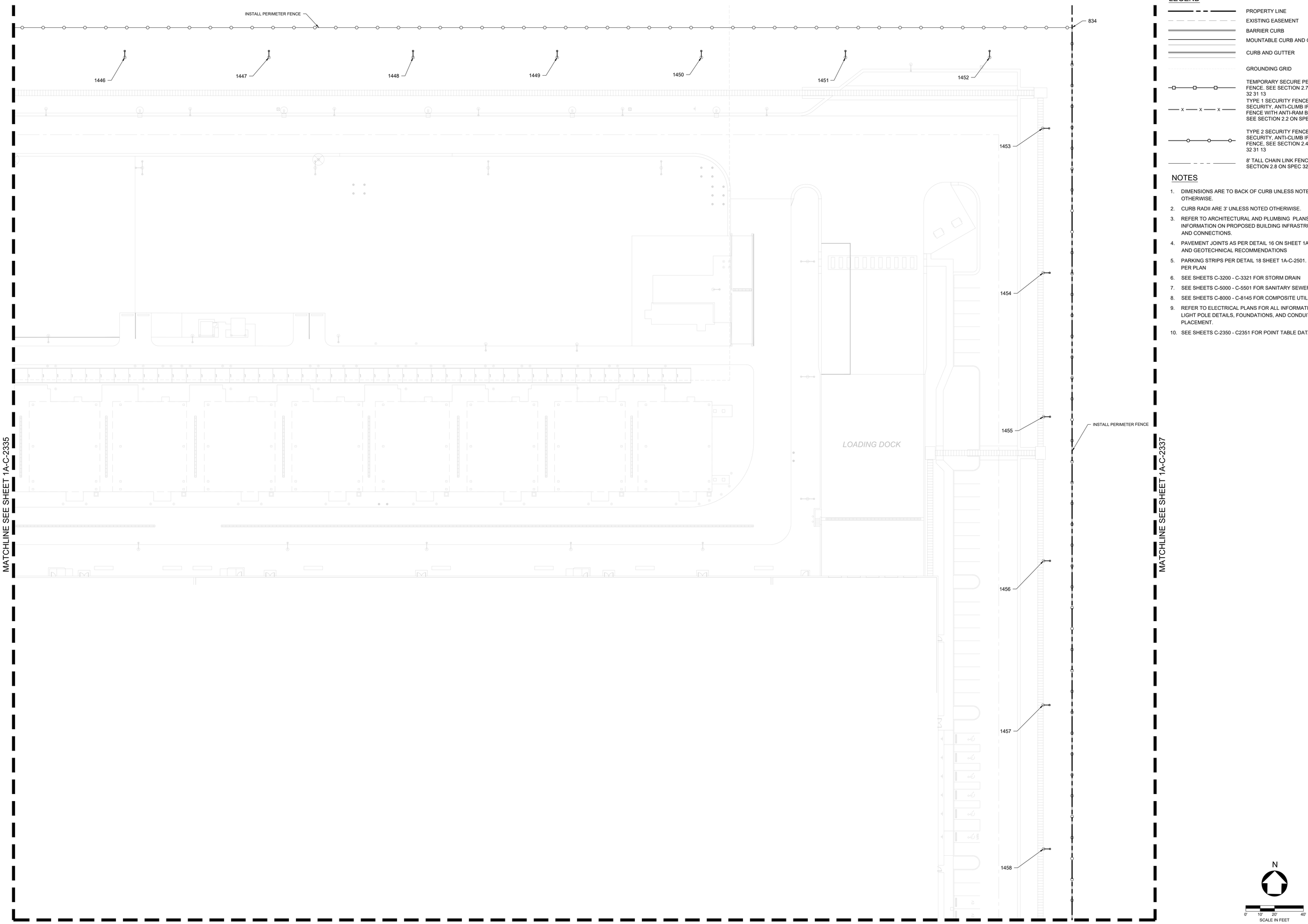
PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2335

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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N

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SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2336

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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MATCHLINE SEE SHEET 1A-C-2336

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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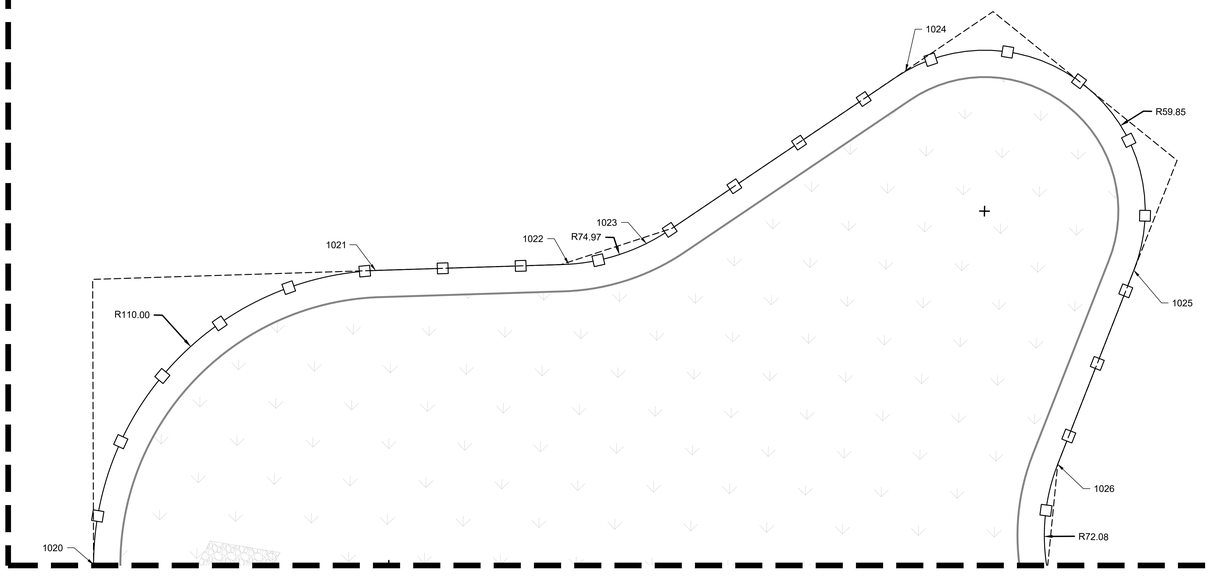

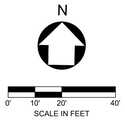

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2337

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
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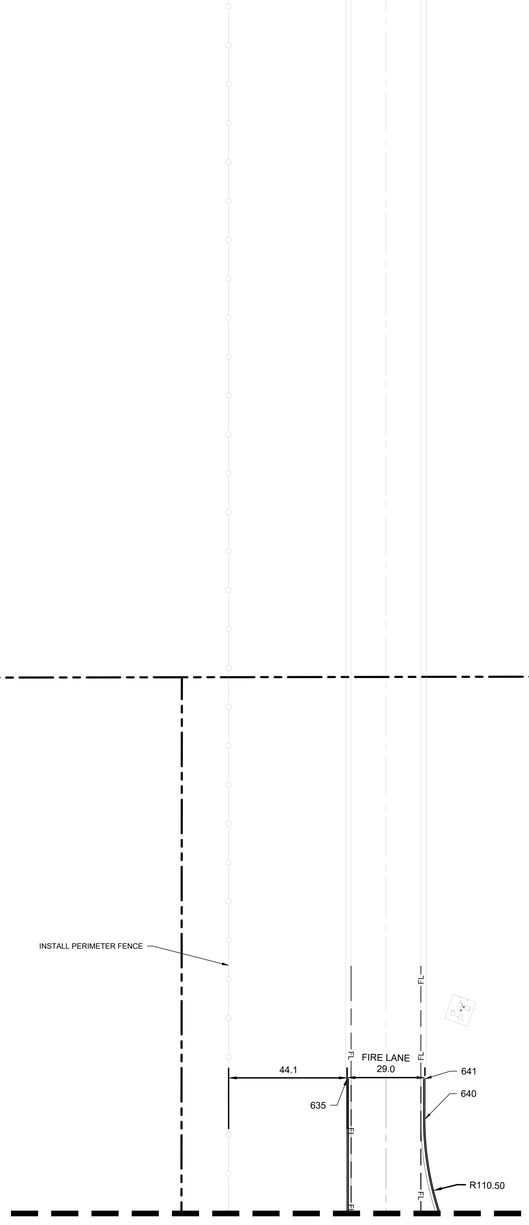

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SCALE IN FEET

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HDR, INC.
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SITE GEOMETRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2343

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE		
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3	466925.2213	2583415.1582	83	467323.8362	2583384.2306	163	467159.8890	2584314.7627	243	467434.3152	2583520.9253	323	467309.4528	2584316.1766	403	467726.4477	2584998.1798	483	467860.5197	2584537.8683	563	467832.3122	2584673.4794	643	469140.1137	2583084.1006	723	467189.2159	2585198.0959
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5	466771.4869	2583539.1783	85	467505.0749	2583345.4909	165	467301.6390	2584349.5116	245	467450.1524	2583531.2220	325	467309.7314	2584329.6737	405	467732.9360	2584997.5458	485	467950.1041	2584322.9577	565	467838.8211	2584673.8452	645	469503.9448	2583268.8455	725	467217.9438	2584442.3974
6	466927.5502	2583543.2502	86	467307.9397	2583347.0593	166	467303.1385	2584422.1624	246	467487.7277	2583465.4326	326	467391.7139	2584327.9816	406	467731.7683	2584940.9744	486	467954.6960	2584327.3639	566	467841.5896	2584807.9758	646	469553.6353	2583258.4137	726	467223.5995	2584442.2807
7	466939.4990	2583426.6961	87	467216.9720	2583337.9345	167	467378.7394	2584274.9572	247	467183.5966	2584499.7036	327	467391.4353	2584314.4845	407	467731.2581	2584940.4848	487	467980.6905	2584326.8273	567	467841.7650	2584816.4740	647	469635.6373	2583172.1779	727	467233.0669	2584485.2387
8	467063.9118	2583390.4723	88	467337.5596	2583357.3720	168	467701.2917	2583995.6688	248	467246.1854	2584498.4110	328	467395.8415	2584309.8926	408	467725.2594	2584940.6086	488	467985.0967	2584322.2354	568	467826.5182	2584816.7887	648	469632.9199	2583116.3980	728	467242.0947	2584486.4937
9	467058.4486	2583392.7606	89	467121.1284	2583484.0514	169	467144.0436	2584472.5430	249	467246.6587	2584521.3449	329	467400.4334	2584314.2987	409	467725.0840	2584932.1105	489	467984.8903	2584312.2376	569	467844.0907	2584929.1540	649	469319.8784	2583031.8787	729	467254.8680	2584507.1725
10	467166.7216	2583335.9711	90	467204.8525	2583388.6172	170	467144.3428	2584487.0399	250	467247.6647	2584570.0846	330	467400.7120	2584327.7959	410	467731.0827	2584931.9866	490	467970.0942	2584298.0399	570	467843.6012	2584929.6642	650	469294.8687	2583004.7939	730	467255.1982	2584523.1691
11	467204.0905	2583351.7033	91	467207.4035	2583391.0651	171	467106.0836	2584473.8422	251	467247.9123	2584582.0820	331	467495.6917	2584325.8355	411	467731.5723	2584931.4764	491	467964.0955	2584298.1637	571	467837.6024	2584929.7881	651	469245.7837	2582853.7270	731	467256.1216	2584567.9096
12	467024.7083	2583463.9457	92	467205.2239	2583406.6134	172	467067.0599	2584474.1263	252	467172.7390	2584532.7604	332	467495.4132	2584312.3383	412	467726.3026	2584676.1676	492	467949.8978	2584312.9598	572	467837.7778	2584938.2862	652	467872.8674	2585257.2505	732	467256.4518	2584583.9062
13	467048.2222	2583470.0997	93	467207.6717	2583404.0623	173	467067.3580	2584488.6247	253	467173.3954	2584564.5662	333	467499.8193	2584307.7464	413	467725.7924	2584675.6780	493	467956.4294	2584411.3460	573	467843.7766	2584938.1624	653	467873.0738	2585267.2483	733	467257.3753	2584628.6466
14	467195.7479	2583516.1730	94	467205.3064	2583410.6125	174	467046.4532	2584494.5451	254	467173.9926	2584593.4975	334	467504.4112	2584312.1526	414	467719.7937	2584675.8018	494	467962.4239	2584410.8094	574	467844.2868	2584938.6520	654	468058.2978	2585253.4231	734	467257.7054	2584644.6432
15	467196.1658	2583536.4229	95	467207.8575	2583413.0604	175	467046.6112	2584502.2003	255	467174.6491	2584625.3032	335	467504.6898	2584325.6497	415	467719.6183	2584667.3036	495	467986.8301	2584406.2175	575	467846.8766	2585064.1254	655	468061.9584	2585263.3497	735	467258.6289	2584689.3837
16	467197.4487	2583511.1368	96	467317.1209	2583444.3988	176	467040.4017	2584494.6700	256	467175.3072	2584657.1887	336	467577.6743	2584324.1433	416	467725.6170	2584667.1798	496	467986.7888	2584404.2180	576	467846.3870	2585064.6356	656	468472.5122	2584914.3606	736	467258.9591	2584705.3803
17	467197.9250	2583486.1217	97	467315.9738	2583388.8242	177	467040.5597	2584502.3252	257	467248.9183	2584630.8216	337	467577.3957	2584310.6462	417	467726.1066	2584666.6696	497	467982.1969	2584399.8118	577	467840.3883	2585064.7594	657	468482.9667	2584918.7259	737	467259.4270	2584723.5461
18	467202.3312	2583481.5298	98	467315.8603	2583383.3254	178	467034.3502	2584494.7949	258	467249.1660	2584642.8191	338	467581.8019	2584306.0543	418	467725.0146	2584613.7641	498	467956.2025	2584400.3483	578	467840.5637	2585073.2576	658	468563.0173	2584481.3654	738	467259.5437	2584729.2017
19	467200.3541	2583477.8519	99	467364.8639	2583387.0428	179	467034.5082	2584502.4501	259	467175.7816	2584680.1734	339	467586.3938	2584310.4605	419	467724.5044	2584613.2745	499	467951.7963	2584404.9402	579	467846.5624	2585073.1338	659	468570.5336	2584488.5605	739	467259.8825	2584750.1208
20	467126.8735	2583465.8293	100	467365.1582	2583412.3142	180	467211.0089	2584285.2015	260	467187.3166	2584679.9353	340	467586.6724	2584323.9576	420	467718.5057	2584613.3984	500	467953.6329	2584493.9213	580	467847.0726	2585073.6234	660	469629.4795	2583313.6989	740	467260.2127	2584766.1174
21	467117.8716	2583482.1318	101	467385.8254	2583408.0535	181	467210.7929	2584274.7372	261	467250.1720	2584691.5587	341	467652.1584	2584322.6060	421	467487.7221	2583537.9481	501	467958.2248	2584498.3274	581	467849.4689	2585189.7189	661	467086.2300	2584493.6376	741	467261.1361	2584810.8578
22	467134.0743	2583487.4396	102	467365.8618	2583446.4020	182	467218.5933	2584274.5762	262	467250.4196	2584703.5561	342	467651.8798	2584309.1088	422	468115.2490	2583370.7494	502	467984.2192	2584497.7909	582	467834.9558	2585225.9847	662	467090.2291	2584493.5550	742	467261.4663	2584826.8544
23	467134.3064	2583512.4401	103	467380.8212	2583441.7591	183	467218.8093	2584285.0405	263	467176.5608	2584717.9258	343	467654.8173	2584306.0476	423	468139.9995	2583371.3760	503	467988.6254	2584493.1990	583	467819.0390	2585226.4537	663	467090.1466	2584489.5559	743	467262.3898	2584871.5949
24	467120.2983	2583520.4792	104	467322.8588	2583383.1809	184	467213.0967	2584313.6644	264	467177.0352	2584740.9072	344	467671.1123	2584305.7720	424	468316.0466	2583383.9430	504	467988.5222	2584488.2001	584	467819.2000	2585234.2541	664	467086.1474	2584489.6384	744	467262.7199	2584887.5915
25	467036.1033	2583471.8061	105	467389.9781	2583510.1822	185	467213.2618	2584321.6628	265	467188.5702	2584740.6691	345	467671.5979	2584306.2615	425	468338.1338	2583384.5022	505	467983.9303	2584483.7939	585	467822.2622	2585234.1909	665	467175.0394	2584532.2405	745	467263.6434	2584932.3320
26	467108.6788	2583505.7329	106	467364.7042	2583390.3189	186	467218.0628	2584321.5637	266	467251.4256	2584752.2957	346	467671.7620	2584314.2146	426	468338.7322	2583413.4960	506	467957.9359	2584484.3304	586	467822.5028	2585235.1346	666	467159.6485	2584532.5581	746	467263.9736	2584948.3286
27	467122.4575	2583462.4197	107	467518.4547	2583345.2156	187	467217.8977	2584313.5654	267	467251.6732	2584764.2932	347	467673.7616	2584314.1733	427	468313.9818	2583412.8694	507	467953.5297	2584488.9223	587	467795.7611	2585235.6866	667	467160.3340	2584565.7326	747	467264.8970	2584993.0690
28	467201.9029	2583460.7799	108	467379.6963	2583386.6755	188	467222.8783	2584313.4626	268	467189.3065	2584776.3419	348	467677.5629	2584314.0949	428	468137.9346	2583400.3024	508	467832.1864	2584352.3973	588	467795.9625	2585234.7337	668	467160.4508	2584571.3882	748	467265.2272	2585009.0656
29	467317.5234	2583463.8947	109	467323.2406	2583401.6770	189	467227.4702	2584317.8687	269	467177.8144	2584778.6628	349	467679.5624	2584314.0536	429	468115.8475	2583399.7432	509	467824.5179	2584326.8031	589	467799.8842	2585234.6528	669	467160.9022	2584593.2952	749	467266.1506	2585053.8061
30	467324.5219	2583463.7502	110	467322.9723	2583388.6797	190	467227.7488	2584331.3659	270	467178.2889	2584801.6477	350	467679.4237	2584307.3336	430	467482.7231	2583538.0513	510	467756.2673	2584328.2118	590	467862.6200	2584663.8519	670	467176.2930	2584592.9775	750	467266.4808	2585069.8027
31	467324.4084	2583458.2514	111	467508.3879	2583384.8527	191	467220.9119	2584338.4493	271	467189.8239	2584801.4096	351	467680.0271	2584306.8341	431	467482.9804	2583481.5340	511	467749.6615	2584354.1006	591	467863.1302	2584664.3415	671	467161.5877	2584626.4697	751	467267.0005	2585087.9674
32	467333.3933	2583459.8448	112	467505.8368	2583382.4048	192	467221.0150	2584343.4482	272	467190.5601	2584837.0791	352	467662.2028	2584324.6522	432	467747.1852	2584234.1262	512	467753.3144	2584531.0791	592	467869.1289	2584664.2177	672	467161.7044	2584632.1253	752	467267.1172	2585093.6230
33	467336.3926	2583459.7829	113	467382.7004	2583389.9475	193	467223.0771	2584343.4056	273	467179.0681	2584839.3999	353	467657.2038	2584324.7554	433	467788.0021	2584273.2922	513	467759.8233	2584531.4449	593	467869.3043	2584672.7159	673	467177.9332	2584651.4624	753	467267.4043	2585114.5432
34	467339.3920	2583459.7210	114	467380.1005	2583408.6719	194	467228.4365	2584337.8531	274	467179.5425	2584862.3847	354	467656.4614	2584313.0151	434	467889.3045	2584271.2013	514	467753.9794	2584539.0671	594	467863.3056	2584672.8397	674	467162.1104	2584651.7890	754	467267.7344	2585130.5397
35	467342.3914	2583459.6591	115	467323.6946	2583423.6723	195	467171.7665	2584344.4647	275	467191.0775	2584862.1466	355	467662.4601	2584312.8913	435	467889.0879	2584260.7035	515	467755.6088	2584539.0578	595	467862.8160	2584673.3499	675	467162.2271	2584657.4446	755	467268.6579	2585175.2802
36	466940.8833	2583445.9294	116	467323.4263	2583410.6751	196	467172.6577	2584339.4452	276	467191.8137	2584897.8160	356	467711.9994	2584329.1255	436	467896.8883	2584260.5425	516	467753.4898	2584539.5773	596	467863.1063	2584687.4128	676	467162.8199	2584686.1658	756	467268.9881	2585191.2768
37	467368.4255	2583509.9897	117	467383.1543	2583411.9428	197	467129.9914	2584498.9945	277	467180.2787	2584898.0541	357	467719.6679	2584354.1197	437	467897.1050	2584271.0403	517	467754.6781	2584597.1485	597	467863.9317	2584727.4043	677	467162.9664	2584695.1506	757	467672.3145	2584345.7667
38	467356.3444	2583510.2238	118	467383.8579	2583446.0305	198	467114.9979	2584499.3039	278	467180.7961	2584923.1217	358	467723.3208	2584531.6982	438	467998.4999	2584268.9475	518	467755.1883	2584597.6380	598	467864.1312	2584737.0722	678	467163.3631	2584712.5261	758	467652.2280	2584345.4589
39	467355.9936	2583493.2275	119	467324.1195	2583444.2543	199	468113.2497	2584719.0949	279	467192.3311	2584922.8836	359	467722.8312	2584532.2084	439	468010.7450	2584280.6973	519	467761.1870	2584597.5142	599	467864.6127	2584760.3973	679	467163.4798	2584718.1817	759	467654.5227	2584393.0655
40	467208.2289	2583431.0566	120	467308.3740	2583447.5885	200	467033.0722	2584978.1207	280	467193.0674	2584958.5531	360	467716.8325	2584532.3322	440	468011.0339	2584294.6943	520	467761.4965	2584612.5110	600	467866.3667	2584845.3792	680	467179.1869	2584712.1994	760	467671.7344	2584395.2453
NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE		
NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:
41	467208.1258	2583426.0576	121	467520.6447	2583383.8140	201	467085.8857	2584280.1741	281	467181.5753	2584960.8740	361	467716.8737	2584534.3318	441	468014.0951	2584297.6318	521	467755.4978	2584612.6348	601	467866.8482	2584868.7072	681	467044.3363	2584751.3968	761	467640.0450	2584457.0006
42	466927.9751	2583407.7709	122	467419.1293	2583421.7025	202	467130.8976	2584542.9018	282	467182.0497	2584983.8587	362	467716.9666	2584538.8308	442	468027.5923	2584297.3532	522	467755.0082	2584613.1450	602	467868.0856	2584928.6588	682	467582.6955	2584270.7475	762	467679.5971	2584344.8940
43	466931.3967	2583412.5891	123	467421.6804	2583424.1504	203	467193.8440	2583520.8494	283	467193.5848	2584983.6206	363	467717.0079	2584540.8304	443	468029.6868	2584398.8316	523	467756.1002	2584666.0505	603	467868.5958	2584929.1483	683	467044.1783	2584743.7416	763	467694.5106	2584344.5862
44	466946.2162	2583443.5611	124	467418.8610	2583408.7053	204	468106.2526	2584599.1913	284	467194.3210	2585019.2901	364	467723.0066	2584540.7066	444	468016.1897	2584399.1102	524	467756.6104	2584666.5401	604	467874.5946	2584929.0245	684	467147.5982	2584705.7081	764	467693.6519	2584394.7929
45	466946.3194	2583448.5600	125	467421.7131	2583425.7365	205	466997.6136	2585265.7532	285	467182.8289	2585021.6111	365	467723.5168	2584541.1962	445	468011.7835	2584403.7021	525	467762.6091	2584666.4163	605	467874.7700	2584937.5227	685	467148.1769	2584733.7449	765	467666.4765	2584506.1913
46	466840.0300	2583467.7575	126	467393.5496	2583356.2164	206	467035.1357	2585078.0994	286	467183.3500	2585046.8557	366	467724.6844	2584597.7675	446	468011.8248	2584405.7016	526	467762.7846	2584674.9145	606	467868.7712	2584937.6465	686	467164.0331	2584746.8271	766	467666.7552	2584519.6930
47	466839.1321	2583428.7677	127	467403.0731	2583356.9510	207	467083.3837	2584542.8823	287	467194.8850	2585046.6176	367	467724.1949	2584598.2777	447	468016.4167	2584410.1078	527	467756.7858	2584675.0383	607	467868.2817	2584938.1567	687	467164.2568	2584755.8234	767	467667.0340	2584533.1991
48	466925.8926	2583447.8147	128	467418.2213	2583377.7119	208	467079.5488	2584359.6797	288	467195.5746	2585080.0272	368	467718.1962	2584598.4016	448	468029.9138	2584409.8292	528	467756.2963	2584675.5485	608	467870.8715	2585063.6302	688	467164.6167	2584773.2632	768	467667.3125	2584546.6908
49	466926.5116	2583477.8051	129	467420.7724	2583380.1597	209	467436.7898	2583356.6085	289	467184.0826	2585082.3482	369	467718.2374	2584600.4011	449	468031.7917	2584500.8099	529	467761.5659	2584930.8574	609	467871.3817	2585064.1197	689	467164.7335	2584778.9187	769	467667.5910	2584560.1879
50	467685.1117	2584037.3600	130	467366.3859	2583459.1639	210	467523.0278	2583347.0426	290	467184.5570	2585105.3329	370	467717.1916	2584234.7452	450	468018.2945	2584501.0884	530	467762.0761	2584931.3469	610	467877.3804	2585063.9959	690	467180.4405	2584772.9365	770	467667.8696	2584573.6851
51	467202.0406	2583515.5430	131	467369.3852	2583459.1019	211	467522.5541	2583437.6503	291	467196.0920	2585105.0948	371	467660.8273	2584258.0123	451	468013.8883	2584505.6803	531	467768.0748	2584931.2231	611	467877.5558	2585072.4941	691	467144.4616	2584824.3082	771	467668.1482	2584587.1822
52	466946.8735	2584254.7446	132	467368.8171	2583492.1562	212	467521.7921	2583439.3954	292	467196.8103	2585139.8930	372	467655.9288	2584253.1165	452	468014.1153	2584516.6780	532	467768.2502	2584939.7213	612	467871.5571	2585072.6179	692	467144.6628	2584834.0562	772	467668.4268	2584600.6793
53	467212.7925	2584274.6959	133	467380.8450	2583457.0865	213	467524.8445	2583435.0632	293	467185.3362	2585143.0852	373	467678.6379	2584269.0481	453	468008.7300	2584522.2903	533	467762.2515	2584939.8451	613	467871.0675	2585073.1281	693	467165.8704	2584834.0002	773	467668.7103	2584614.4133
54	467216.5937	2584274.6174	134	467317.4099	2583458.3958	214	467563.2384	2583513.7301	294	467185.8106	2585166.0699	374	467670.8374	2584269.2091	454	467934.7458	2584523.8174	534	467761.7619	2584940.3553	614	467874.1984	2585224.8151	694	467165.9871	2584839.6558	774	467668.9887	2584627.9051
55	467013.6878	2584516.3782	135	467202.0627	2583468.5229	215	467418.3335	2583359.6430	295	467197.3457	2585165.8318	375	467670.9613	2584275.2079	455	467929.1334	2584518.4321	535	467762.9296	2584996.9267	615	467874.7086	2585225.3046	695	467181.6941	2584833.6735	775	467669.2676	2584641.4168
56	467037.1874	2584491.8880	136	467304.0410	2583466.4180	216	467437.2438	2583378.6038	296	467198.0819	2585201.5013	376	466985.9071	2584282.2377	456	467928.9064	2584507.4344	536	467763.4398	2584997.4163	616	467880.6966	2585225.1810	696	467144.9201	2584846.5223	776	467669.5461	2584654.9064
57	467041.7070	2584445.7849	137	467316.5441	2583477.0894	217	467523.1306	2583352.0415	297	467186.5898	2585203.8223	377	467040.2985	2584685.4695	457	467924.3145	2584503.0282	537	467769.4385	2584997.2925	617	467880.8576	2585232.9815	697	467145.1162	2584856.0203	777	467669.8261	2584668.4719
58	467046.7472	2584447.6813	138	467276.9530	2583534.7555	218	467520.9347	2583398.3994	298	467187.0642	2585226.8070	378	467155.5821	2585254.0516	458	467910.8174	2584503.3068	538	467769.7480	2585012.2893	618	467874.8696	2585233.1051	698	467166.4529	2584862.2226	778	467670.1049	2584681.9836
59	467041.3550	2584428.7325	139	467337.0742	2583468.4280	219	467521.0975	2583405.8141	299	467198.5993	2585226.5689	379	467178.5772	2585253.5769	459	467908.9396	2584412.3262	539	467763.7493	2585012.4131	619	467874.3800	2585233.6153	699	467166.5696	2584867.8782	779	467670.3834	2584695.4754
60	467033.5436	2584437.9517	140	467337.5591	2583491.9220	220	467524.1624	2583402.0309	300	467198.4505	2585219.3587	380	467257.5021	2585251.9479	460	467922.4367	2584412.0476	540	467763.2597	2585012.9233	620	467875.1146	2585269.2066	700	467166.7261	2584875.4616	780	467670.6621	2584708.9770
61	467033.5218	2584436.8964	141	467418.6753	2583399.7072	221	467397.0768	2583486.3077	301	467186.7992	2584654.8677	381	467313.4902	2585250.7923	461	467926.8429	2584407.4557	541	467764.3517	2585065.8288	621	467873.3105	2584697.2043	701	467166.8429	2584881.1172	781	467670.9655	2584723.6773
62	467158.1935	2584426.3210	142	467421.3089	2583406.1542	222	467437.6919	2583400.3149	302	467186.2271	2584627.1480	382	467644.1697	2585243.9670	462	467926.8016	2584405.4561	542	467764.8619	2585066.3183	622	467971.1342	2584695.1852	702	467167.1240	2584894.7373	782	467671.2440	2584737.1691
63	467163.1683	2584425.0514	143	467368.6673	2583514.7774	223	467420.8549	2583384.1589	303	467185.5276	2584593.2594	383	467690.1994	2585236.5156	463	467922.2097	2584401.0499	543	467770.8607	2585066.1945	623	467977.7516	2584692.4974	703	467167.2407	2584900.3929	783	467671.5227	2584750.6708
64	466994.3281	2585245.4763	144	467361.1849	2583494.7273	224	467381.0627	2583467.6342	304	467184.9735	2584566.4110	384	467699.2480	2585242.8104	464	467908.7126	2584401.3285	544	467771.0361	2585074.6927	624	468218.8586	2584558.0777	704	467182.9477	2584894.4106	784	467671.8015	2584764.1824
65	466999.5929	2585287.2776	145	466958.5012	2583795.4752	225	467438.2707	2583428.3564	305	467184.2740	2584532.5223	385	467717.5375	2585237.2881	465	467907.1752	2584326.8444	545	467765.0373	2585074.8165	625	467873.7232	2584717.2001	705	467168.3776	2584955.4743	785	467672.0781	2584777.5829
66	467001.5512	2585285.2367	146	466960.5648	2583895.4540	226	467523.2337	2583357.0404	306	467261.0392	2585218.0669	386	467717.2725	2585236.3579	466	467920.6723	2584326.5658	546	467764.5478	2585075.3267	626	467971.5469	2584715.1810	706	467168.4944	2584961.1299	786	467672.3568	2584791.0847
67	466998.8480	2585251.1863	147	467202.3002	2583528.1200	227	467508.6561	2583397.8500	307	467260.4486	2585189.4526	387	467713.7660	2585236.4303	467	467923.5293	2584324.2594	547	467766.9440	2585191.4223	627	467989.1526	2584709.0172	707	467184.2014	2584955.1477	787	467672.6355	2584804.5863
68	466995.9468	2585200.6747	148	467029.9919	2584337.1112	228	467521.9128	2583406.5782	308	467260.2010	2585177.4552	388	467713.7248	2585234.4307	468	467923.4034	2584313.5067	548	467782.9411	2585227.0583	628	468158.7219	2584780.0609	708	467169.6312	2585016.2114	788	467672.9185	2584818.0879
69	466993.8832	2585100.6960	149	467029.8854	2584331.9491	229	467509.1098	2583419.8281	309	467259.1950	2585128.7156	389	467713.6463	2585230.6294	469	467895.7245	2584301.0752	549	467799.7232	2585226.8523	629	468172.1740	2584799.5137	709	467169.7480	2585021.8670	789	467673.1948	2584831.6846
70	466991.8196	2585000.7173	150	467059.4612	2584319.4173	230	467508.8419	2583406.8480	310	467258.9473	2585116.7181	390	467713.6050	2585228.6298	470	467891.9232	2584301.1536	550	467760.3758	2584322.1258	630	468201.9130	2584795.4737	710	467185.4550	2585015.8847	790	467673.4733	2584845.1763
71	466989.7560	2584900.7386	151	467156.6458	2584351.3369	231	467367.7148	2583491.2580	311	467257.9414	2585067.9785	391	467727.7797	2585228.3373	471	467858.1490	2584301.8508	551	467776.9052	2584308.5420	631	468203.3388	2584775.5245	711	467170.8849	2585076.9485	791	467673.9877	2584870.1020
72	467038.1268	2584743.8665	152	467161.6688	2584352.4006	232	467355.1422	2583461.1680	312	467257.6937	2585055.9811	392	467728.1568	2585228.1535	472	467855.2114	2584304.9120	552	467803.0860	2584308.

NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE		
NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:
801	467676.7777	2585005.2735	881	467842.2625	2584985.9492	961	467268.8205	2584427.2049	1041	466979.0087	2584289.9900	1121	467154.5204	2585251.0728	1201	467661.9603	2584312.9016	1281	467764.7852	2584923.6995	1361	467548.3538	2583498.0339	1441	469598.5483	2583432.2629	1521	467551.3384	2583405.9709	1601	467361.9169	2583530.1926
802	467677.0564	2585018.7752	882	467843.0056	2585021.9497	962	467256.3171	2584423.1288	1042	466981.0495	2584291.9483	1122	467638.6549	2585219.0755	1202	467625.3138	2584330.4146	1282	467728.6566	2584965.7876	1362	467741.6007	2583893.3091	1442	468504.2180	2584582.0207	1522	467551.6535	2583418.9500	1602	467362.9797	2583534.2628
803	467677.3377	2585032.4043	883	467843.6075	2585051.1102	963	467256.4066	2584427.4612	1043	466968.6115	2585307.9308	1123	467646.5551	2585220.9394	1203	467656.0533	2584269.0142	1283	467730.0122	2585031.6027	1363	467741.4227	2583979.1658	1443	469613.5640	2583546.1896	1523	467554.2046	2583421.3979	1603	467134.4095	2583517.4390
804	467677.6206	2585045.8959	884	467833.6549	2585051.3156	964	467702.8755	2584429.7629	1044	466994.4066	2585249.2776	1124	467149.0867	2585842.5586	1204	467661.0523	2584268.9110	1284	467765.3598	2585017.7513	1364	467751.5769	2584024.5318	1444	469615.6276	2583646.1683	1524	467554.2377	2583423.0011	1604	467106.1400	2583510.0404
805	467677.8948	2585059.3977	885	467833.7752	2585057.1477	965	467680.9580	2584430.2153	1045	466996.3086	2585258.6463	1125	467320.7919	2585839.0146	1205	467661.1967	2584275.9095	1285	467766.8454	2585023.5115	1365	467753.6405	2584124.5105	1445	469617.6912	2583746.1470	1525	467538.0817	2583439.8381	1605	467045.9279	2583474.5513
806	467678.1735	2585072.8994	886	467834.1259	2585074.1360	966	467703.9728	2584391.1158	1046	466994.2869	2585243.4767	1126	467091.3066	2585462.5733	1206	467656.1978	2584276.0127	1286	467731.8265	2585089.1716	1366	467750.7051	2584224.5924	1446	469619.7548	2583846.1257	1526	467542.2585	2583429.9589	1606	467024.5277	2583468.9505
807	467678.4769	2585087.5976	887	467834.2566	2585080.4680	967	467688.9036	2584383.8807	1047	466994.2745	2585242.8779	1127	467865.5349	2585386.5936	1207	467655.6979	2584276.0230	1287	467768.9189	2585123.9872	1367	467160.1669	2583562.7831	1447	469621.8184	2583946.1044	1527	467578.6668	2583333.8594	1607	466840.1331	2583472.7564
808	467678.7554	2585101.0894	888	467844.2092	2585080.2626	968	467661.5345	2584384.4456	1048	466987.2760	2585243.0223	1128	467882.3839	2585718.3165	1208	467661.6966	2584275.8992	1288	467710.4500	2585221.6623	1368	467691.0058	2584268.5132	1448	469623.8820	2584046.0831	1528	467638.3988	2583348.3196	1608	467027.4034	2584502.6675
809	467679.0340	2585114.5910	889	467844.8110	2585109.4230	969	467646.6210	2584384.7534	1049	466987.4617	2585252.0204	1129	468639.6582	2584302.2646	1209	467590.7015	2583681.1253	1289	467838.0525	2585218.3543	1369	467684.5542	2584010.3658	1449	469625.9455	2584146.0618	1529	467696.8634	2583366.8629	1609	467021.5100	2584510.4475
810	467679.3129	2585128.1027	890	467844.9142	2585114.4220	970	467625.3808	2584333.6609	1050	466994.4602	2585251.8760	1130	468634.6592	2584302.3678	1210	467590.4539	2583669.1278	1290	467874.3628	2585120.5607	1370	467286.3231	2584504.0272	1450	469628.0091	2584246.0405	1530	467741.5017	2583371.8830	1610	467021.3520	2584502.7924
811	467679.5900	2585141.5244	891	467845.6571	2585150.4143	971	467688.1471	2584531.7574	1051	466994.4479	2585251.2771	1131	468639.5550	2584297.2657	1211	467585.4447	2583668.7311	1291	467872.3818	2585024.5811	1371	467288.2112	2584595.5077	1451	469630.0727	2584346.0192	1531	467754.7781	2583374.1888	1611	467027.5614	2584510.3226
812	467679.8686	2585155.0261	892	467845.9907	2585166.5775	972	467638.6920	2584500.7635	1052	467906.0825	2583623.6193	1132	468634.5560	2584297.3689	1212	467590.9435	2583668.6176	1292	467870.2460	2584921.1032	1372	467085.0507	2584436.4102	1452	469632.1363	2584445.9980	1532	467755.0670	2583388.1858	1612	467247.8826	2584491.9205
813	467680.1473	2585168.5278	893	467835.9548	2585166.7847	973	467648.8100	2584493.5424	1053	467867.7038	2583797.5354	1133	468639.5135	2584295.2545	1213	467591.2014	2583681.1149	1293	467868.8275	2584824.1266	1373	467165.0337	2584434.7594	1453	469583.7192	2584483.7977	1533	467735.6609	2583391.1700	1613	467252.2597	2584500.1546
814	467680.4262	2585182.0394	894	467836.0649	2585172.1169	974	467631.5697	2584494.9092	1054	467398.5238	2585728.3035	1134	468544.6022	2584207.4587	1214	467585.4550	2583669.2310	1294	467866.7536	2584723.6480	1374	467249.7858	2584433.0473	1454	469483.4571	2584486.2450	1534	467693.0983	2583380.3471	1614	467195.3669	2584484.0164
815	467680.7067	2585195.6275	895	467821.3138	2584453.4047	975	467755.0419	2584517.8578	1055	467369.1493	2585758.9162	1135	468546.6297	2584202.4158	1215	467590.5571	2583674.1267	1295	467864.7729	2584622.7813	1375	467160.0983	2584494.9460	1455	469383.5872	2584488.5700	1535	467574.9017	2583347.3436	1615	467184.3693	2584484.2434
816	467680.9851	2585209.1192	896	467086.3794	2584339.2848	976	467696.3986	2584931.5357	1056	467369.7494	2585787.9935	1136	468544.4991	2584202.4598	1216	467558.4607	2583669.7882	1296	467862.7086	2584521.7607	1376	467144.5843	2584588.4531	1456	469283.6085	2584490.6336	1536	467663.2351	2583384.9455	1616	467717.5888	2584229.7610
817	467707.6433	2584323.2142	897	467357.3882	2583459.3496	977	467699.0022	2585057.6755	1057	467098.0654	2585793.5900	1137	468539.5001	2584202.5629	1217	467553.5650	2583674.8903	1297	467862.0615	2584515.6489	1377	467290.2748	2584695.4865	1457	469183.5181	2584492.3494	1537	467677.3178	2583388.3112	1617	467746.5826	2584229.1626
818	467762.2786	2584264.6071	898	467237.0372	2583545.5965	978	467700.3951	2585125.1612	1058	467150.0559	2585401.3612	1138	468539.6033	2584207.5619	1218	467553.4618	2583669.8913	1298	467860.6414	2584421.8104	1378	467292.2662	2584791.9659	1458	469083.6511	2584494.7438	1538	467727.9348	2583393.7469	1618	467719.0885	2584229.7301
819	467762.5795	2584263.7158	899	467516.8365	2583543.1939	979	467726.5045	2584965.2085	1059	467714.1936	2584065.2659	1139	468344.5417	2584206.5869	1219	467396.7003	2583491.3165	1299	467824.2006	2584331.4484	1379	467294.4020	2584895.4439	1459	467052.4193	2584723.8250	1539	467735.6148	2583407.5913	1619	467745.0830	2584229.1936
820	467769.2401	2584263.5784	900	468140.9713	2583327.2929	980	467729.8317	2585099.6582	1060	467673.1244	2584038.1076	1140	468344.6448	2584211.5859	1220	467427.7553	2583519.6817	1300	467967.7494	2584313.5231	1380	467296.5688	2585000.4215	1460	467753.8246	2584531.5687	1540	467742.2799	2583409.5909	1620	469525.0466	2583453.8133
821	467769.1988	2584261.5788	901	468317.0185	2583339.8598	981	467653.5536	2585220.7950	1061	467673.0832	2584036.1080	1141	468339.6459	2584211.6890	1221	467552.7130	2583657.8448	1301	467969.3329	2584405.7099	1381	467298.5498	2585096.4011	1461	467694.8877	2584522.7332	1541	467665.3168	2583421.2227	1621	469577.7254	2583460.7713
822	467769.1203	2584257.7775	902	467420.4009	2583362.1636	982	467653.4301	2585214.7962	1062	467672.5879	2584012.1131	1142	468339.5427	2584206.6901	1222	467553.0754	2583675.4005	1302	467971.9721	2584490.5209	1382	467300.7372	2585202.3785	1462	467712.7647	2584555.6248	1542	467633.9476	2583435.4024	1622	468545.8555	2583365.8606
823	467769.0791	2584255.7779	903	467708.0854	2584252.0358	983	467643.5507	2585213.9734	1063	467672.5466	2584010.1135	1143	468337.9492	2584206.7230	1223	467558.5639	2583674.7871	1303	468467.0767	2584696.2800	1383	467229.0581	2585283.5740	1463	467710.7208	2584581.3757	1543	467613.9388	2583440.7041	1623	467539.3302	2583590.3720
824	467754.5681	2584256.0774	904	467703.3688	2584265.8230	984	467269.7900	2585284.8419	1064	467712.4602	2583981.2837	1144	468272.9709	2584251.2798	1224	467462.7217	2583513.9589	1304	468077.6354	2584255.3116	1384	467328.5369	2585281.5207	1464	467711.7253	2584681.5520	1544	467547.1568	2583453.6538	1624	467635.3097	2583588.3909
825	467754.1449	2584255.8595	905	467703.0313	2584264.9449	985	467175.4483	2585212.4290	1065	467673.2723	2584045.2696	1145	468273.0740	2584256.2787	1225	467365.2169	2583541.9752	1305	468077.8085	2584260.3091	1385	467429.5154	2585279.4365	1465	467715.7282	2584698.9971	1545	467531.9985	2583453.9666	1625	467735.2882	2583586.3273
826	467188.0529	2584715.6048	906	467697.7917	2584265.0531	986	467253.1573	2584521.2108	1066	467673.3754	2584050.2686	1146	468278.0730	2584256.1756	1226	467355.7692	2583491.5462	1306	468082.6343	2584255.2084	1386	467529.9940	2585277.3626	1466	467699.6580	2584733.6586	1546	467532.0506	2583456.4918	1626	467844.4733	2583563.6332
827	467031.2149	2584888.1399	907	467697.7505	2584263.0535	987	467254.4110	2584581.9479	1067	467702.0369	2584049.6647	1147	468277.9698	2584251.1766	1227	467305.2783	2583525.9946	1307	468082.7375	2584260.2073	1387	467629.4728	2585275.3094	1467	467702.9683	2584922.7319	1547	467511.3276	2583472.3919	1627	467904.0189	2583523.6408
828	467084.6820	2585287.9433	908	467697.6720	2584259.2522	988	467255.6646	2584642.6849	1068	467708.6948	2584065.3793	1148	468279.6665	2584256.1427	1228	467418.4071	2583386.7099	1308	468112.6279	2584254.5893	1388	467729.4515	2585273.2458	1468	467718.0305	2584982.1827	1548	467517.3609	2583568.5989	1628	467920.1451	2583442.2768
829	467184.6607	2585285.8797	909	467697.6307	2584257.2526	989	467256.9182	2584703.4220	1069	467712.1927	2584234.8484	1149	467903.7724	2584258.9001	1229	467381.4548	2583486.6301	1309	468112.7311	2584259.5882	1389	467481.0505	2583530.5429	1469	467720.3943	2585080.0725	1549	467488.3671	2583569.1974			
830	467294.6370	2585283.5947	910	467711.1346	2584256.7473	990	467258.1718	2584764.1591	1070	467171.1983	2584514.6598	1150	467903.8756	2584263.8991	1230	467523.7084	2583380.0393	1310	468117.6268	2584254.4861	1390	467524.6378	2583425.0653	1470	467707.9095	2585133.4380	1550	467483.3681	2583569.3002			
831	468042.4790	2585285.7565	911	467710.7208	2584256.9825	991	467259.4255	2584824.8961	1071	467951.8375	2584406.9398	1151	467908.8745	2584263.7959	1231	467521.8509	2583403.5789	1311	468117.7300	2584259.4851	1391	467481.6855	2583541.1727	1471	468457.4630	2584671.0354	1551	467544.4021	2583594.5464			
832	468488.1940	2584920.9086	912	467672.8370	2584269.1679	992	467260.6791	2584885.6332	1072	468071.4597	2585274.9569	1152	467909.0190	2584270.7944	1232	467521.7890	2583400.5795	1312	468147.6205	2584253.8671	1392	467846.5374	2583347.5195	1472	467544.7423	2583514.1118	1552	467529.8257	2583621.7496			
833	468556.8176	2584525.4263	913	467670.4717	2584275.7181	993	467261.9327	2584946.3703	1073	468079.1978	2585268.6227	1153	467904.0200	2584270.8976	1233	467506.2908	2583404.4002	1313	468147.7236	2584258.8660	1393	467962.7404	2583356.1710	1473	467029.6006	2585287.6909	1553	467528.5618	2583626.5872			
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840	467821.4445	2584459.7367	920	466925.8403	2583445.1486	1000	467891.3454	2584273.1596	1080	469605.1721	2583101.4252	1160	467910.1379	2584300.7777	1240	467405.5571	2583442.5734	1320	468567.7863	2584223.5706	1400	468311.3118	2584557.6190	1480	467522.3496	2583314.2060	1560	467867.0573	2583782.0511			
NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE			NORTHING & EASTING TABLE		
NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:	NUMBER:	NORTHING:	EASTING:
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851	467834.0110	2584586.1709	931	466986.9407	2584804.7763	1011	468716.8899	2585217.8606	1091	467288.9505	2583534.5079	1171	467923.3615	2584324.7630	1251	468451.7256	2584693.2488	1331	468617.3592	2584280.1804	1411	468292.5981	2584808.9217	1491	467527.5068	2583342.5274	1571	467767.4140	2583311.2260			
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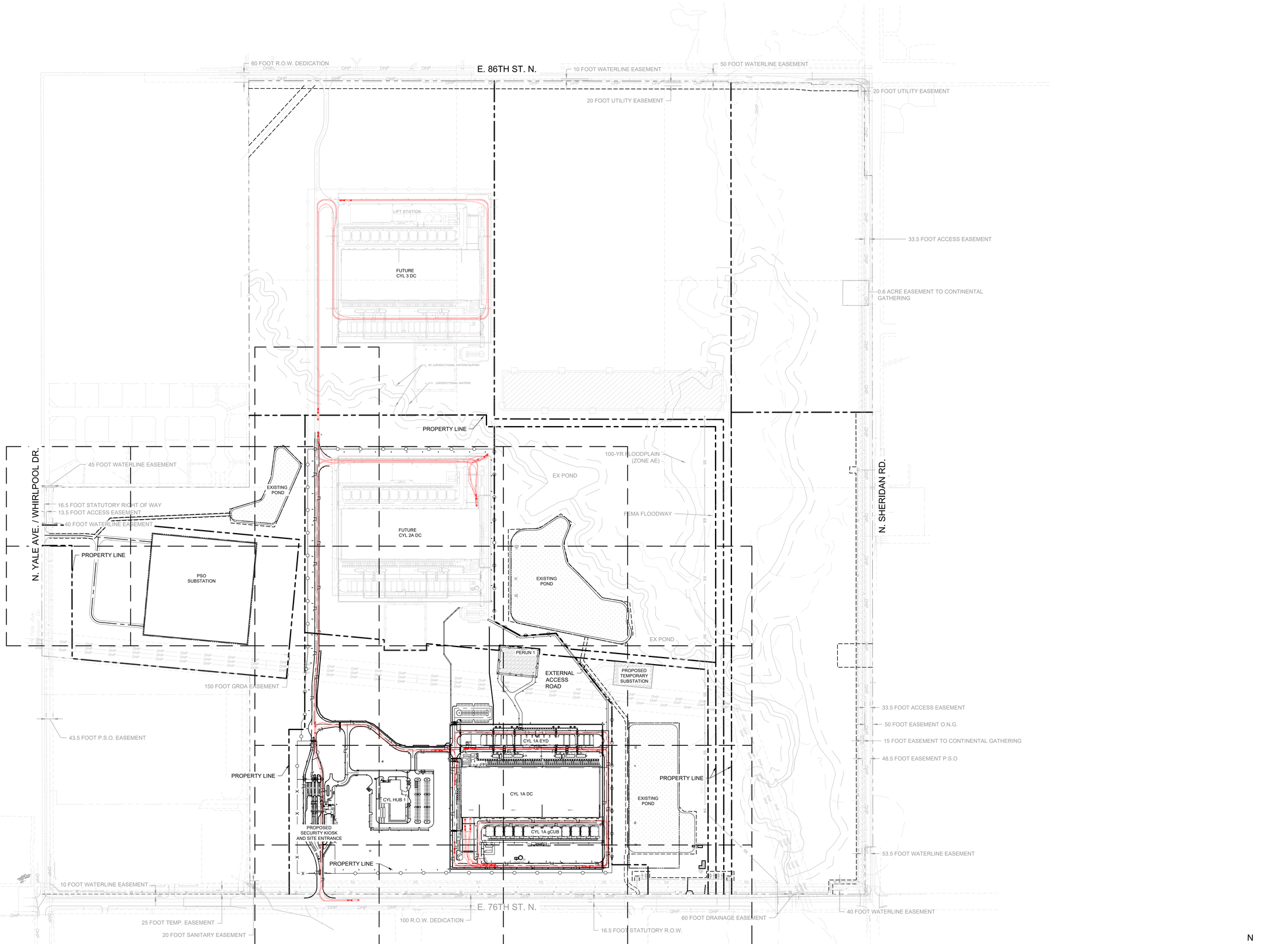

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

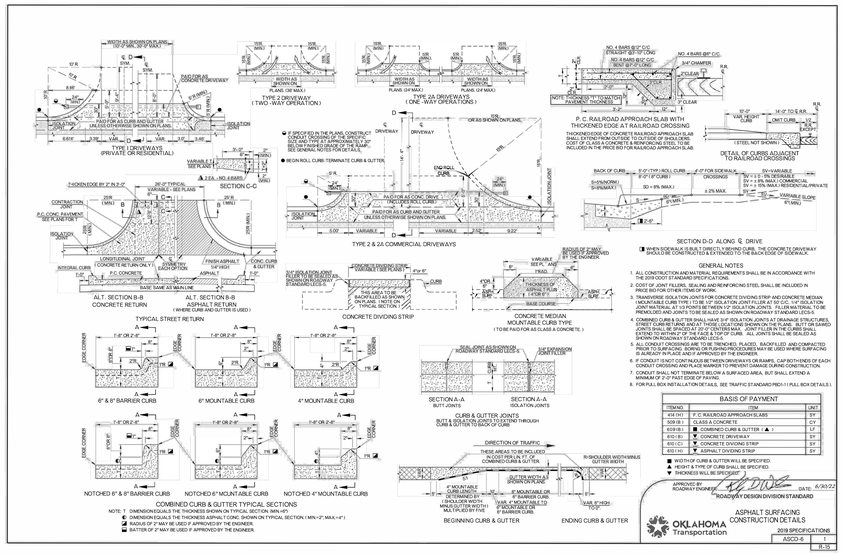
PROJ. NO.: 10434535

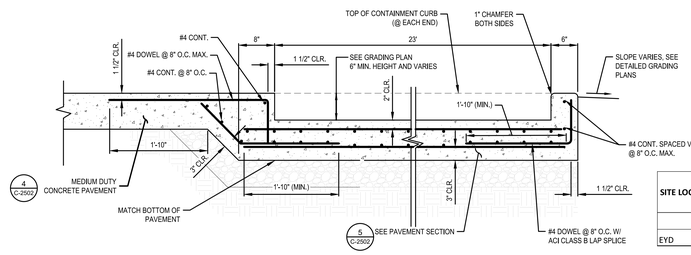
AUTOTURN EXHIBIT

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2400

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



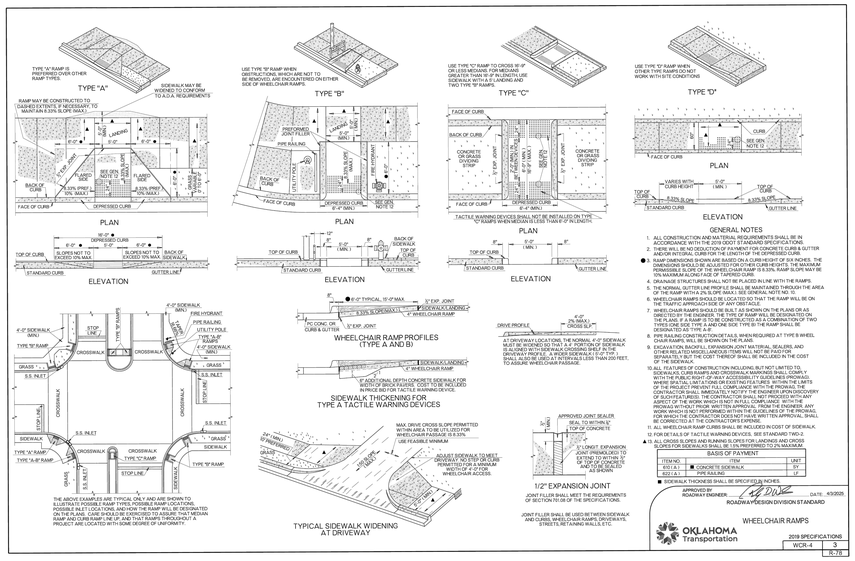


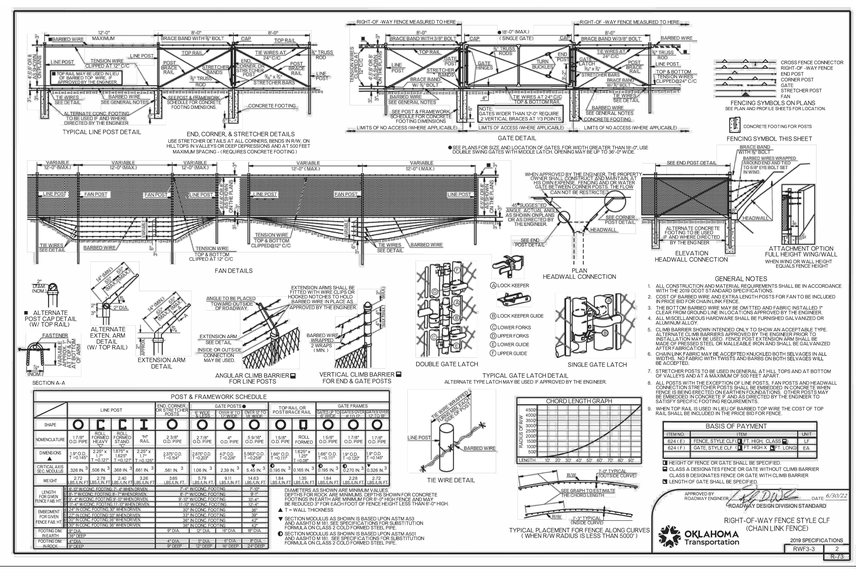
SITE LOCATION	AREA	RAINFALL VOLUME C	RAINFALL VOLUME RAINFALL DEPTH (100-yr, 6-hr)	RAINFALL VOLUME VOLUME	TANK VOLUME	TOTAL VOLUME REQUIRED	TOTAL VOLUME PROVIDED
	(ACRES)		(INCHES)	(GALLONS)	(GALLONS)	(GALLONS)	(GALLONS)
EYD	0.08	1	6.90	14988	3000	17988	34844

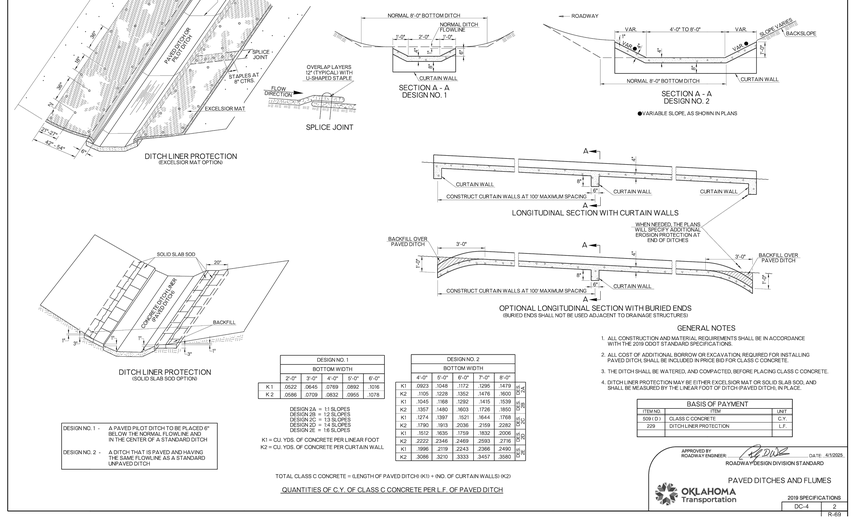
1 - FUEL DELIVERY AREA PAVEMENT SECTION
NTS

FUEL TRUCK CONTAINMENT AREA NOTES:

1. COORDINATE FUEL OIL PIPING AND FUEL OIL TANK FOUNDATIONS AND CONTAINMENT AREA DIMENSIONS WITH MECHANICAL AND STRUCTURAL PLANS.
2. PROVIDE CALCIUM CHLORIDE ACCELERATOR AND ANTI-GRAVITY SILICA STEEL REINFORCEMENT ADMIXTURES PER MANUFACTURER RECOMMENDATIONS.
3. FUEL-RESISTANT, POLYPROPYLENE WATERSTOPS (OR APPROVED EQUIVALENT) SHALL BE INSTALLED AT ALL EDGES OF CONTAINMENT AREAS, CONSTRUCTION/EXPANSION JOINTS AND STRUCTURES CAST INTO CONCRETE (I.E. TRENCH DRAINS). WATERSTOP INSTALLTION SHALL BE PER MANUFACTURER REQUIREMENTS.
4. VALVES TO REMAIN IN CLOSED POSITION UNLESS DRAINING AFTER INSPECTION.
5. DIKES ARE TO BE INSPECTED AFTER RAINFALL EVENTS TO ENSURE NO SPILLS FROM TANKS. VALVES CAN BE OPENED TO DRAIN STORMWATER IF NO SPILLS ARE PRESENT.
6. CONTRACTOR WILL ENSURE CONTAINMENT VESSEL WILL NOT LEAK AT ALL TIMES. CONTRACTOR WILL TAKE ALL PRACTICAL MEASURES TO AVOID SURFACE CRACKING, TO INCLUDE CONTROL JOINTS AS NECESSARY, AND WILL TEST THE VESSEL FOR LEAKS TO THE ENGINEER'S SATISFACTION.
7. SMOOTH SURFACES SUCH AS CAPS AROUND WIRING AND OR PVC CONDUITS, PVC PIPES OR OTHER PENETRATIONS OF THE DIKE WALL OR SLAB, SURFACES WILL BE ROUGHENED PRIOR TO THE APPLICATION OF THE PRIMER. SIKAFLEX 449 (OR APPROVED EQUAL) WILL BE USED AS A PRIMER. AFTER PRIMING IS COMPLETED, FILL GAPS WITH SIKAFLEX 2C NS (OR APPROVED EQUAL), MAINTAIN A MINIMUM DISTANCE OF 1/2" BETWEEN PVC CONDUIT AND THE CONCRETE.
8. PLEASE REFERENCE THE SPILL PREVENTION CONTROL AND COUNTERMEASURE PLAN FOR OPERATIONS.
9. INSTALL YELLOW/BLACK POST DELINEATOR AT EACH END OF FUEL OFFLOAD CONTAINMENT CURB SIMILAR TO WWW.MYPARKINGSIGN.COM/FLEX-POST-YELLOW-BLACK-DELINEATOR-PADDLE/SKU-KU-5318.
10. CONTAINMENT VOLUME TESTING SHALL BE PERFORMED TO ENSURE THE TOTAL DESIGN VOLUME DOES NOT LEAK PAST THE CONTAINMENT VALVE FOR 2 HOURS.
11. FUEL RESISTANT, BENTONITE WATER STOPS SHALL BE INSTALLED AT SLAB PENETRATIONS FOR PIPES, STRUCTURES, GRATES, ETC. THAT ARE NOT CAST AS PART OF THE PAVEMENT SECTION.
12. ALL JOINTS AND CRACKS SHALL BE FILLED WITH SEALANT.
13. REFERENCE SPEC SECTION 03 15 00.10 FOR WATERSTOPS, SEALANTS, PERFORMANCE COATINGS AND CONCRETE ADDITIVES.







DESIGN NO. 1 BOTTOM WIDTH	2'-0"	3'-0"	4'-0"	5'-0"	6'-0"
K 1	.0522	.0645	.0769	.0892	.1016
K 2	.0566	.0709	.0832	.0955	.1078

DESIGN NO. 2 BOTTOM WIDTH	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	
K1	.0923	.1048	.1172	.1296	.1479	6H:1V
K2	.1105	.1228	.1352	.1476	.1600	
K1	.1045	.1168	.1292	.1415	.1539	5H:1V
K2	.1257	.1480	.1603	.1726	.1850	
K1	.1274	.1397	.1521	.1644	.1768	4H:1V
K2	.1790	.1913	.2036	.2159	.2282	
K1	.1512	.1635	.1759	.1832	.2006	3H:1V
K2	.2222	.2346	.2469	.2593	.2716	
K1	.1996	.2119	.2243	.2366	.2490	2H:1V
K2	.3086	.3210	.3333	.3457	.3580	

DESIGN NO. 1 - A PAVED PILOT DITCH TO BE PLACED 6" BELOW THE NORMAL FLOWLINE AND IN THE CENTER OF A STANDARD DITCH

DESIGN NO. 2 - A DITCH THAT IS PAVED AND HAVING THE SAME FLOWLINE AS A STANDARD UNPAVED DITCH

DESIGN 2A = 11 SLOPES
DESIGN 2B = 12 SLOPES
DESIGN 2C = 13 SLOPES
DESIGN 2D = 14 SLOPES
DESIGN 2E = 16 SLOPES

K1 = CU. YDS. OF CONCRETE PER LINEAR FOOT
K2 = CU. YDS. OF CONCRETE PER CURTAIN WALL

TOTAL CLASS C CONCRETE = ℄LENGTH OF PAVED DITCH (K1) + (NO. OF CURTAIN WALLS) (K2)

QUANTITIES OF C.Y. OF CLASS C CONCRETE PER L.F. OF PAVED DITCH

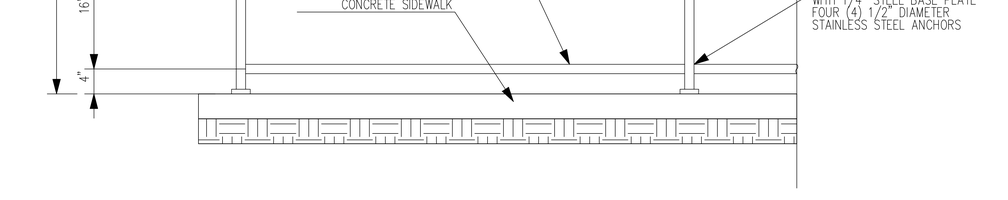
GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. ALL COST OF ADDITIONAL BORROW OR EXCAVATION, REQUIRED FOR INSTALLING PAVED DITCH, SHALL BE INCLUDED IN PRICE BID FOR CLASS C CONCRETE.
3. THE DITCH SHALL BE WATERED, AND COMPACTED, BEFORE PLACING CLASS C CONCRETE.
4. DITCH LINER PROTECTION MAY BE EITHER EXCELSIOR MAT OR SOLID SLAB SOD, AND SHALL BE MEASURED BY THE LINEAR FOOT OF DITCH DESIGNATED ON THE PLANS.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
509 (1)	CLASS C CONCRETE	C.Y.
229	DITCH LINER PROTECTION	L.F.

PAVED DITCHES AND FLUMES
2019 SPECIFICATIONS
DC-4
R-69



2 - HANDRAIL DETAIL - WHEELCHAIR RAMPS
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER: 1A-C-2500
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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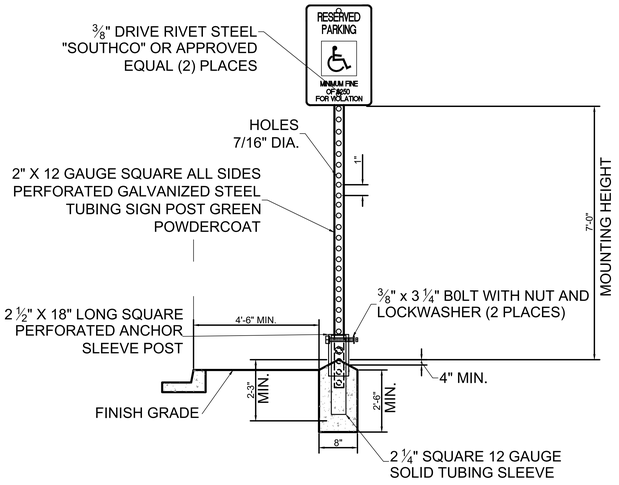
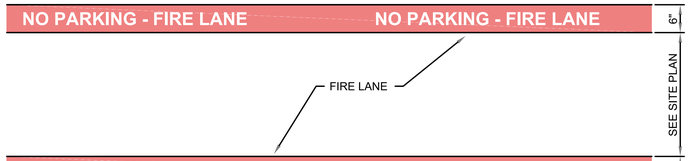


1 - "HANDICAPPED PARKING" SIGN POST DETAIL
NTS

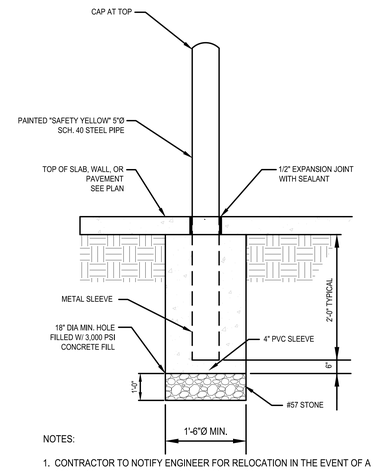


STRIPING DETAIL:

PAINT:
1. STRIPE SHALL BE SIX (6) INCHES WIDE PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT.
   - COLOR SHALL BE "TRAFFIC RED" GLIDDEN NO. 63251 OR EQUAL.
2. LETTERS SHALL BE FOUR (4) INCHES HIGH PAINTED WITH AN EXTERIOR ACRYLIC LATEX PAINT. LETTERS TO BE ONE (1) INCH STROKE.
   - COLOR SHALL BE "TRAFFIC WHITE" GLIDDEN NO. 563245 OR EQUAL.

APPLICATION:
1. STRIPE MAY BE BRUSHED OR SPRAYED, ONE COAT TO FINISH.
2. LETTERS SHALL BE STENCIL FORMED, BRUSH APPLIED AND SPACED AS DETAILED ON THIS SHEET.

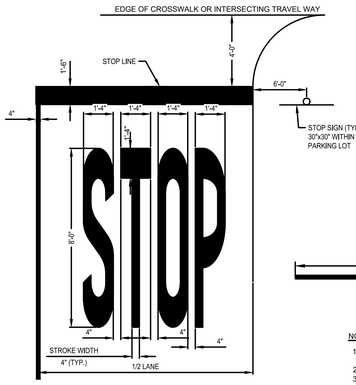
2 - PAINTED FIRE LANE STRIPING
NTS



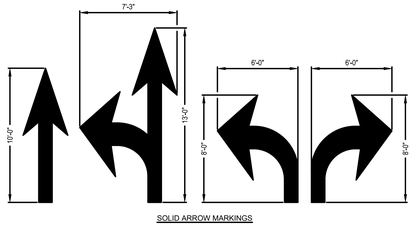
NOTES:
1. CONTRACTOR TO NOTIFY ENGINEER FOR RELOCATION IN THE EVENT OF A CONFLICT WITH UTILITIES, FOUNDATIONS, ETC.

3 - REMOVABLE PIPE BOLLARD
NTS

8 -

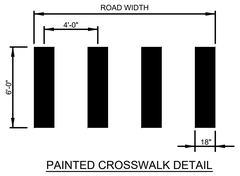


STOP BAR DETAIL



SOLID ARROW MARKINGS

TRAFFIC ARROWS DETAIL



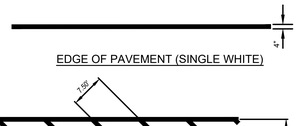
PAINTED CROSSWALK DETAIL



DOUBLE SOLID YELLOW (CENTER LINE)



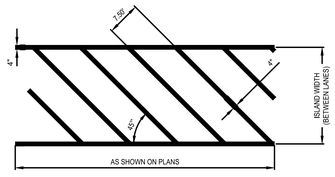
SKIP LINE STRIPING (SINGLE DASHED WHITE)



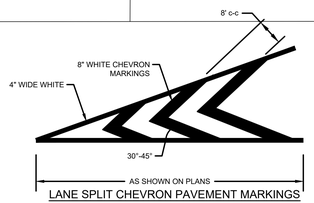
EDGE OF PAVEMENT (SINGLE WHITE)

NOTES:
1. PLACE PAVEMENT STRIPING WHERE INDICATED ON THE PLANS AND PER MUTCD OR AHJ REGULATION.
2. PLACE STOP BARS AND CROSSWALKS AS ILLUSTRATED ON PLANS.
3. LETTERS ARE TO BE 8" WIDE, LETTERS ARE TO BE PLACED 12" OFF OF STOP BAR (AS REQUIRED).
4. ALL PAVEMENT MARKINGS SHALL BE PAINTED RETROREFLECTIVE WHITE.

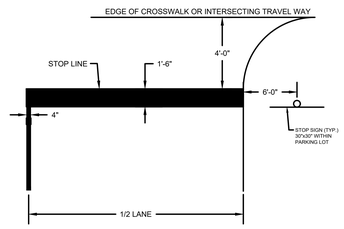
STRIPING: PRIOR TO APPLICATION OF STRIPING PAINT, SURFACES SHOULD BE CLEANED OF MATERIAL THAT WOULD PREVENT ADHERENCE OF PAINT. PAINT SHALL BE APPLIED ONLY TO A DRY SURFACE USING EITHER TEMPLATE OF STRIPING MACHINE; STRIPES SHALL BE 4" WIDE OF UNIFORM WEIGHT WITH NO "SKIPS" OR BARE SPOTS. FINISHED STRIPING SHALL BE APPROVED BY THE ARCHITECT.



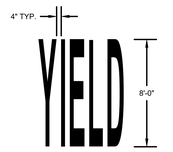
LANE SPLIT PAVEMENT MARKINGS



LANE SPLIT CHEVRON PAVEMENT MARKINGS

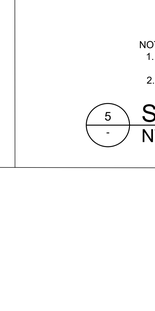


STOP BAR DETAIL



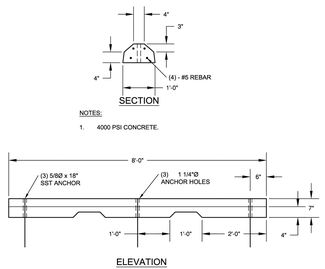
ELONGATED LETTERS FOR WORD "YIELD" PAVEMENT MARKING

4 - PARKING LOT PAINTING STANDARDS
NTS



NOTES:
1. CONTRACTOR TO NOTIFY ENGINEER FOR RELOCATION IN THE EVENT OF A CONFLICT WITH UTILITIES, FOUNDATIONS, ETC.
2. PROVIDE REFLECTIVE BOLLARD SLEEVE, ULINE MODEL H-6426 OR EQUAL.

5 - STANDARD PIPE BOLLARD
NTS

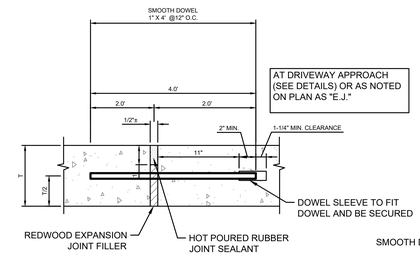


SECTION

NOTES:
1. 4000 PSI CONCRETE.

ELEVATION

6 - CONCRETE WHEELSTOP
NTS



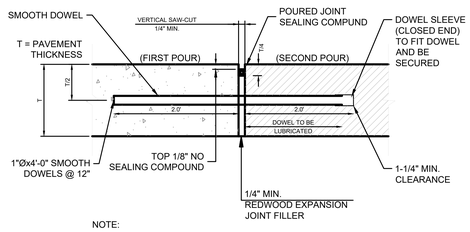
T=PAVEMENT THICKNESS

NOTE: DOWEL SUPPORT SHALL BE OF A METHOD APPROVED BY ENGINEER

NOTE: REFER TO GEOTECH REPORT FOR FURTHER INFORMATION.

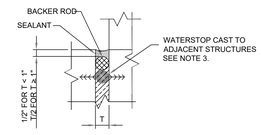
EXPANSION JOINT

CONSTRUCTION JOINT



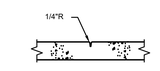
NOTE:
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TO BE USED BETWEEN NEW AND RECENTLY COMPLETED POURS.
3. SEE EXPANSION JOINT DETAIL FOR SMOOTH DOWEL SIZE AND LENGTH

7 - JOINTS
NTS

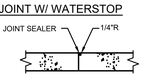


NOTES:
1. USE T=1" FOR NEW CONCRETE ADJACENT TO BUILDINGS OR EXISTING SAW-CUT PAVEMENT/CONCRETE.
2. PROVIDE 1/2" EXPANSION JOINT WHERE CONCRETE PAVING AND SIDEWALK ABUTS ADJACENT STRUCTURES AND DISSIMILAR SURFACES.
3. WATERSTOP TO BE USED AT ALL EXPANSION JOINTS IN THE LOADING DOCK PAVEMENT AREAS.
4. CONTRACTOR TO SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR REVIEW & APPROVAL.

EXPANSION JOINT W/ WATERSTOP

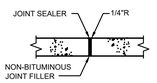


SIDEWALK CONTRACTION JOINT



USE ONLY WHERE CONTRACTION JOINTS WOULD OCCUR

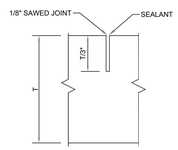
SIDEWALK CONSTRUCTION JOINT



MAXIMUM SPACING 40'. USE AT ABUTTING BUILDINGS, CURBS, WALLS AND OTHER STRUCTURES, AND AS SHOWN.

SIDEWALK EXPANSION JOINT

CONTROL JOINT



NOTES:
1. CONTROL JOINTS SHALL BE SPACED AT MAX. OF 15'-0" O/C EW UNLESS OTHERWISE NOTED ON PLANS.
2. JOINT DEPTH = 2 1/2" (MAX)
3. CONTRACTOR TO SUBMIT JOINT LAYOUT PLAN TO ENGINEER FOR REVIEW & APPROVAL.

C:\ACCVACCDocs\Kimley-Horn\8600057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2500-SITE DETAILS 7/14/2025 1:13 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

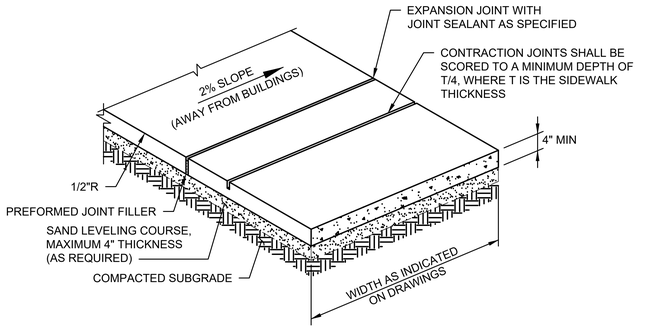
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE DETAILS
SCALE: AS SHOWN

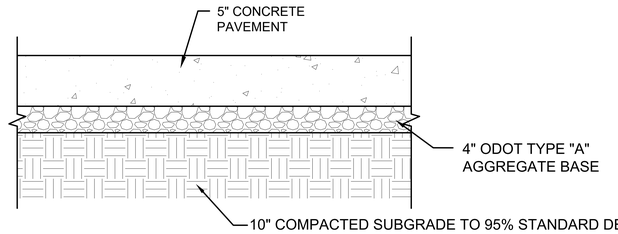
SHEET NUMBER:
1A-C-2501
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



NOTES:

1. REINFORCED CONCRETE SIDEWALKS SHALL BE 4,000 PSI WITH EPOXY COATED 6" X 6" WI 4 X WI 4 WELDED WIRE FABRIC, AT LOCATIONS INDICATED ON PLANS. REINFORCEMENT SHALL BE DISCONTINUED THROUGH ALL EXPANSION JOINTS.
2. JOINT SPACING SHALL BE EQUAL TO THE WIDTH OF THE SIDEWALK.

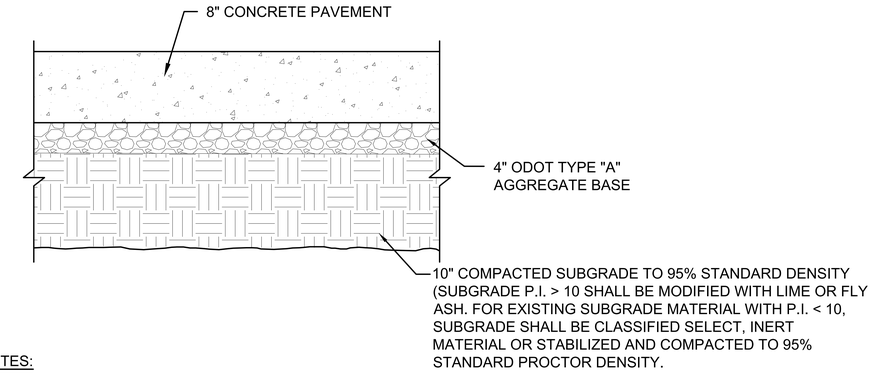
1 - CONCRETE SIDEWALK
NTS



NOTES:

1. PREPARE SUBGRADE IN ACCRDANCE WITH THE GEOTEHCNICAL REPORT, A MINIMUM OF 12 INCHES OF SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED, FOLLOWED BY THE PROOFROLLING.

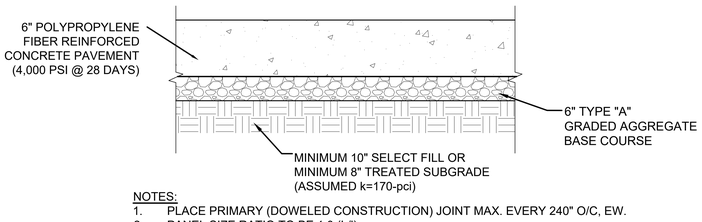
2 - LIGHT-DUTY CONCRETE
NTS



NOTES:

1. PREPARE SUBGRADE IN ACCRDANCE WITH THE GEOTEHCNICAL REPORT, A MINIMUM OF 12 INCHES OF SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED, FOLLOWED BY THE PROOFROLLING.

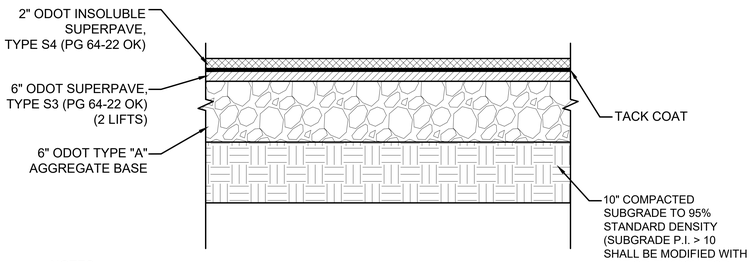
3 - HEAVY-DUTY CONCRETE
NTS



NOTES:

1. PLACE PRIMARY (DOWELED CONSTRUCTION) JOINT MAX. EVERY 240" O/C, EW.
2. PANEL SIZE RATIO TO BE 1.0 (L/I).
3. PLACE SECONDARY (SAW-CUT) JOINT TO MAINTAIN PANEL SIZE RATIO.
4. MEDIUM BROOM FINISH.
5. REFERENCE SPEC SECTION 031513 FOR APPLICATION OF WATERSTOPS.

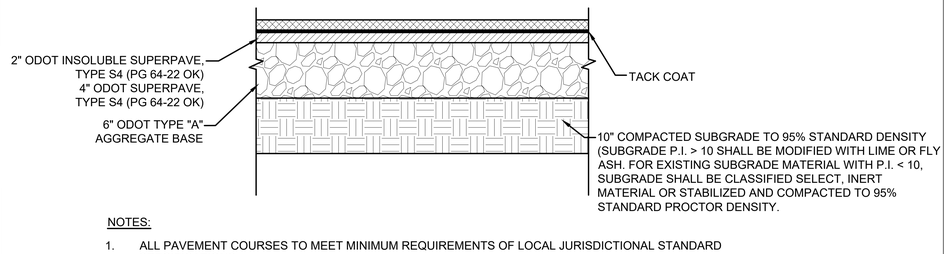
4 - CONCRETE SLAB-ON-GRADE (HARDSCAPING)
PAVEMENT SECTION
NTS



NOTES:

1. ALL PAVEMENT COURSES TO MEET MINIMUM REQUIREMENTS OF LOCAL JURISDICTIONAL STANDARD SPECIFICATIONS.
2. PAVEMENT SECTION PER THE GEOTECHNICAL ENGINEERING REPORT
3. THE FINAL PAVING SHALL BE EVEN WITH TOP OF GUTTER.

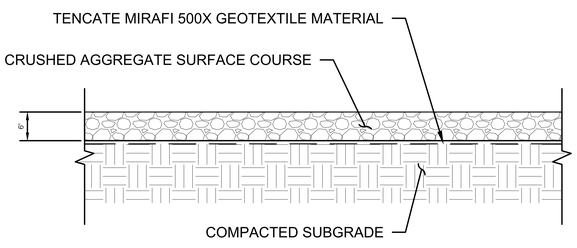
5 - HEAVY DUTY ASPHALT
NTS



NOTES:

1. ALL PAVEMENT COURSES TO MEET MINIMUM REQUIREMENTS OF LOCAL JURISDICTIONAL STANDARD SPECIFICATIONS.
2. PAVEMENT SECTION PER THE GEOTECHNICAL ENGINEERING REPORT
3. THE FINAL PAVING SHALL BE EVEN WITH TOP OF GUTTER.

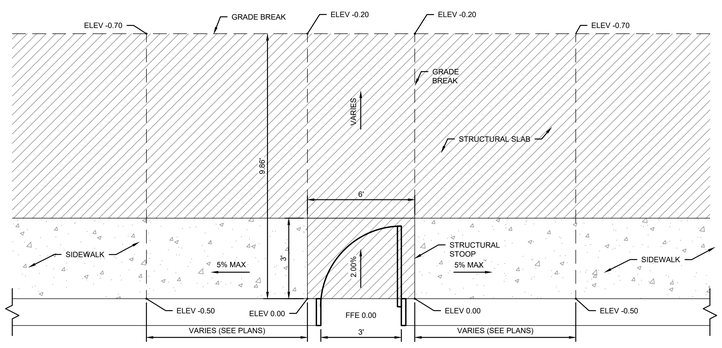
6 - LIGHT DUTY ASPHALT
NTS



NOTES:

1. PREPARE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, A MINIMUM OF 8 INCHES OF SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED, FOLLOWED BY PROOFROLLING.

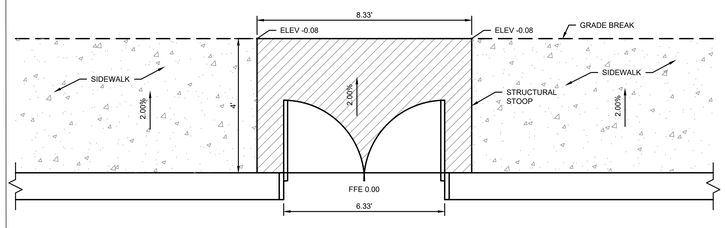
7 - AGGREGATE SURFACING SECTION - 6"
NTS



NOTE:

1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR STRUCTURAL STOOP AND RAMP DETAILED DESIGNS

8 - LANDING - SLOPED SURFACE AT BUILDING
NTS



NOTE:

1. SEE ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR STRUCTURAL STOOP AND RAMP DETAILED DESIGNS

9 - CONCRETE STOOP
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL GRAY
OKLAHOMA
04/09/2026

TRADE SECRETS
NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2502
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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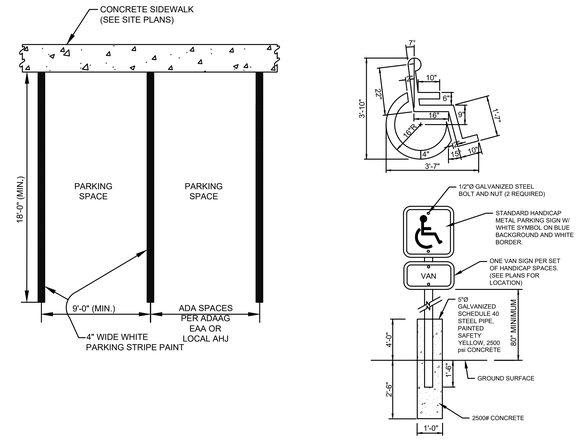
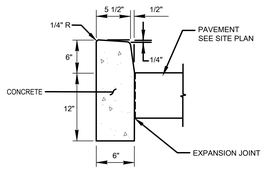


2 - VEHICLE SPACE MARKING
NTS

UNLOADING/LOADING AREA	WATERPROOFING ADMIXTURE	FIBER REINFORCING ADMIXTURE (EITHER ALTERNATIVE) (IN ADDITION TO REBAR)	JOINT SEALANT & CRACK REPAIR		PERFORMANCE EPOXY COATING
			SEALANT A	SEALANT B	
LOADING DOCKS	YES	NO	YES	YES	NO
FUEL DELIVERY AREA	YES	YES	YES	YES	NO
CHEMICAL DELIVERY AREA	YES	YES	NO	YES	YES
FUEL & CHEMICAL DELIVERY DRAIN INLETS	YES	NO	FUEL ONLY	YES	YES

NOTE: SEE SPECIFICATIONS FOR PRODUCT REFERENCES

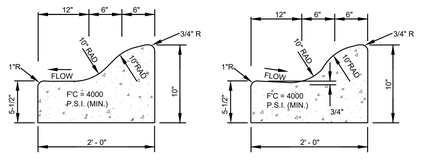
3 - LOADING AREA CONCRETE TREATMENTS
NTS



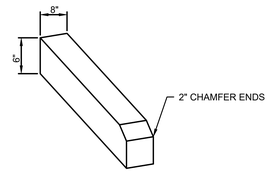
NOTE:

1. CONTROL JOINTS SHALL BE SPACED AT MAX. OF 15'-0" O.C. E.W.

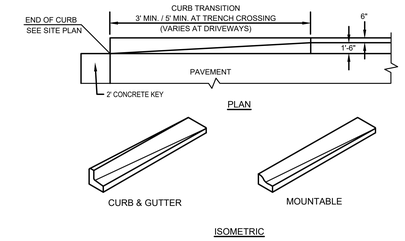
4 - BARRIER CURB
NTS



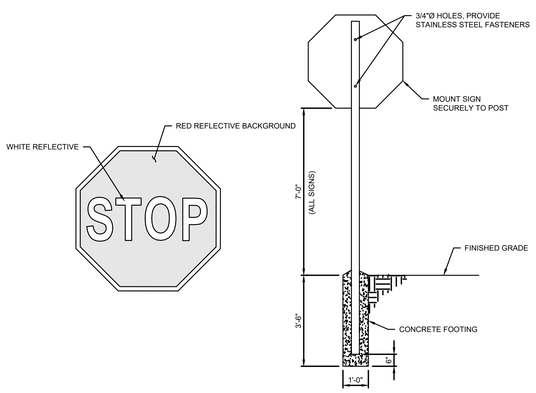
5 - MOUNTABLE CURB AND GUTTER
NTS



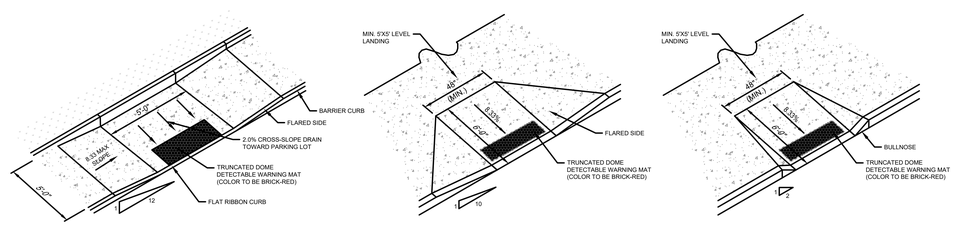
6 - 8" WIDE CURB WITH CHAMFER
NTS



7 - CURB TAPER
NTS



8 - TRAFFIC SIGN MOUNTING
NTS

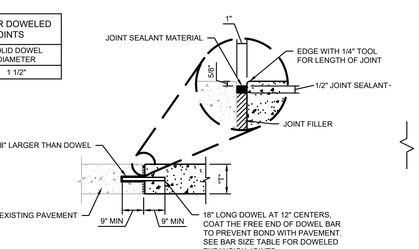


NOTES:

1. THE SLOPE OF THE RAMP SHALL NOT EXCEED 8.33%.
2. THE WIDTH OF THE RAMP SHALL MATCH THE EXISTING WIDTH OF THE SIDEWALK.
3. DETECTABLE WARNINGS SHALL CONFORM TO ADA STANDARDS FOR ACCESSIBLE DESIGN SECT. 4.29.2 OF THE CODE OF FEDERAL REGULATIONS.
4. A LEVEL LANDING (5'X5' MIN WITH MAX. SLOPE OF 2% IN ANY DIRECTION) SHALL BE CONSTRUCTED AT TOP OF EACH RAMP

9 - CURB RAMP
NTS

BAR SIZE TABLE FOR DOWELED EXPANSION JOINTS	
"T"	SOLID DOWEL DIAMETER
10"	1 1/2"



10 - DOWELED EXPANSION JOINT
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2503
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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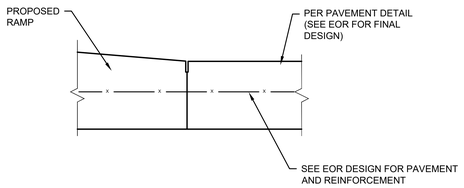
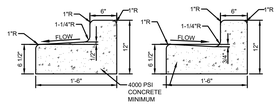


1 - RAMP CONSTRUCTION JOINT
NTS

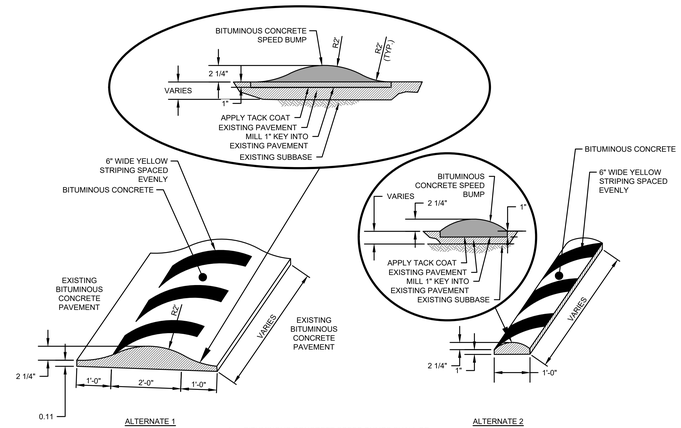


NOTE:

1. CONTROL JOINTS SHALL BE SPACED AT MAX. OF 15'-0" O.C. E.W.

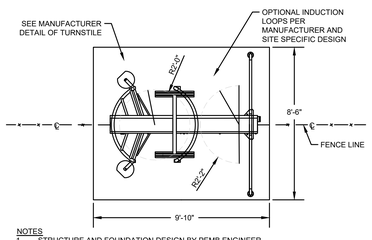
DESIGNER NOTE: ENGINEER OF RECORD TO COORDINATE SECTION WITH AHJ AND LOCAL AVAILABILITY

2 - STANDARD CURB AND GUTTER
NTS



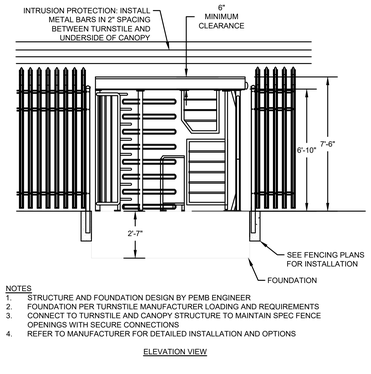
1. BITUMINOUS CONCRETE SPEED BUMPS SHALL BE USED IN LOCATIONS WHERE SNOW IS A CONCERN
2. INSTALL AT A DISTANCE OF 10 TO 20 FEET IN ADVANCE OF ALL STOP SIGNS AND CROSSWALKS IN DIRECTION OF TRAVEL

3 - CONCRETE SPEED BUMP
NTS



NOTES
1. STRUCTURE AND FOUNDATION DESIGN BY PEMB ENGINEER
2. EXTEND FENCE FABRIC AND CONNECT TO TURNSTILE FRAME PER SPECIFICATION
3. REFER TO MANUFACTURER FOR DETAILED INSTALLATION

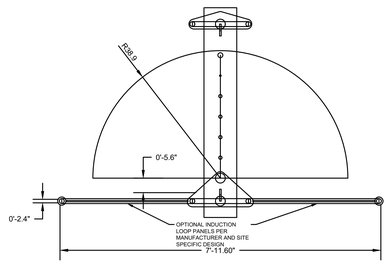
PLAN VIEW



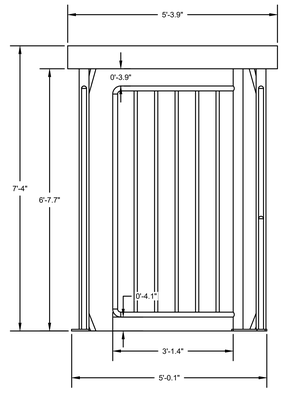
NOTES
1. STRUCTURE AND FOUNDATION DESIGN BY PEMB ENGINEER
2. FOUNDATION PER TURNSTILE MANUFACTURER LOADING AND REQUIREMENTS
3. CONNECT TO TURNSTILE AND CANOPY STRUCTURE TO MAINTAIN SPEC FENCE OPENINGS WITH SECURE CONNECTIONS
4. REFER TO MANUFACTURER FOR DETAILED INSTALLATION AND OPTIONS

ELEVATION VIEW

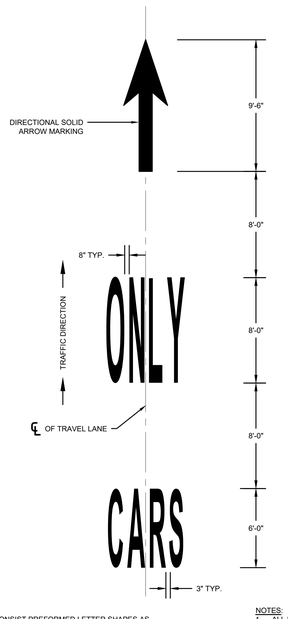
4 - BIKE & PEDESTRIAN COMBO TURNSTILE
NTS



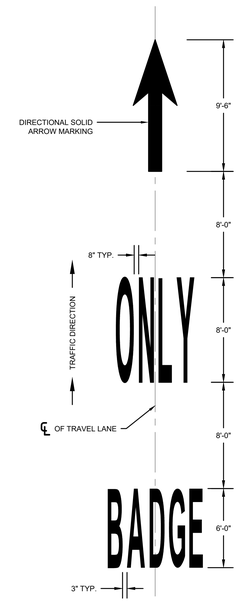
PLAN VIEW



5 - WHEELCHAIR - ACCESSIBLE SWING GATE
NTS



NOTES:
1. ALL MESSAGES SHALL CONSIST PREFORMED LETTER SHAPES AS SPECIFIED IN THE MUTCD 2004 STANDARD HIGHWAY SIGNS AND MARKINGS (SHSM) BOOK. PAVEMENT MARKING CHAPTER.
2. ALL MESSAGES SHALL BE OF 8' TEXT HEIGHT, UNLESS OTHERWISE SPECIFIED.
3. ALL MESSAGES CONSISTING OF TWO WORDS OR MORE SHALL HAVE 8' BETWEEN WORDS AND BE LAID OUT SUCH THAT THE FIRST WORD IS CLOSET TO AN APPROACHING VEHICLE.
4. SPACING BETWEEN EACH LETTER SHALL BE EQUAL FOR ANY WORD. LETTER SPACING SHALL BE 8" UNLESS OTHERWISE SPECIFIED OR AS LIMITED BY LANE WIDTH. ALL MESSAGES SHALL FIT WITHIN A SINGLE LANE AND NOT OVERLAP ANY STRIPING.
5. ALL MESSAGES SHALL BE ALIGNED ON CENTER WITH TRAVEL LANE, UNLESS OTHERWISE SPECIFIED.
6. ALL LETTERS SHALL BE SOLID WHITE.



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6. ALL LETTERS SHALL BE SOLID WHITE.

6 - PAVEMENT MARKINGS
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEMA RANDALL — OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

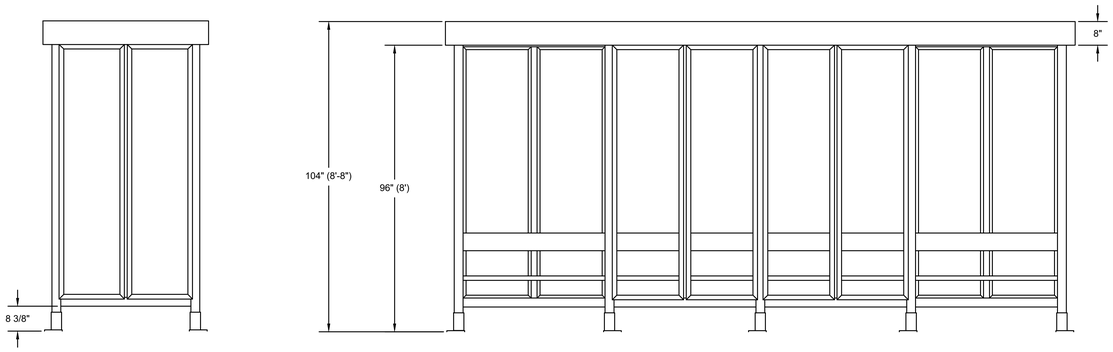
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SITE DETAILS
SCALE: AS SHOWN

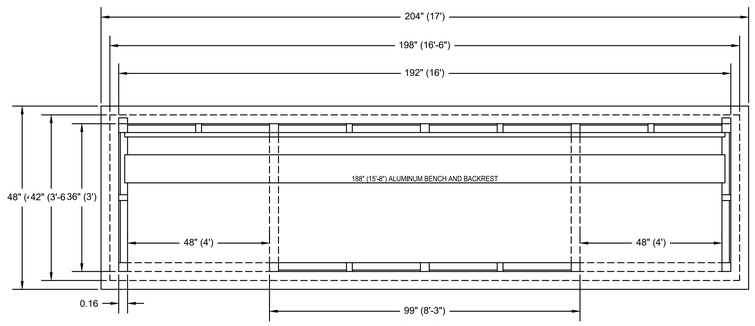
SHEET NUMBER:
1A-C-2504
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACCACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWG\SICYL-1A-C-2500-SITE DETAILS 7/14/2025 1:13 PM



SIDE VIEW

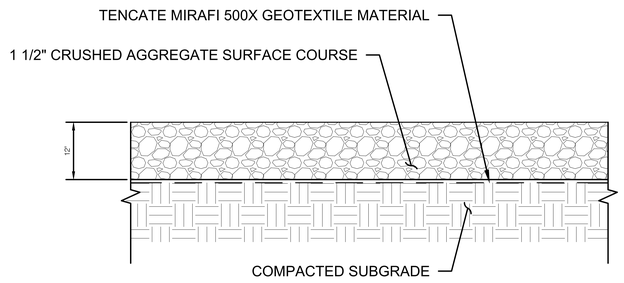
FRONT ELEVATION



PLAN VIEW

NOTES:
1. DUO-GARD BUS SHELTER HAS BEEN DETAILED AND MODELED ON THESE PLANS.
2. COORDINATE WITH STRUCTURAL PLANS FOR FOUNDATION DETAILS.

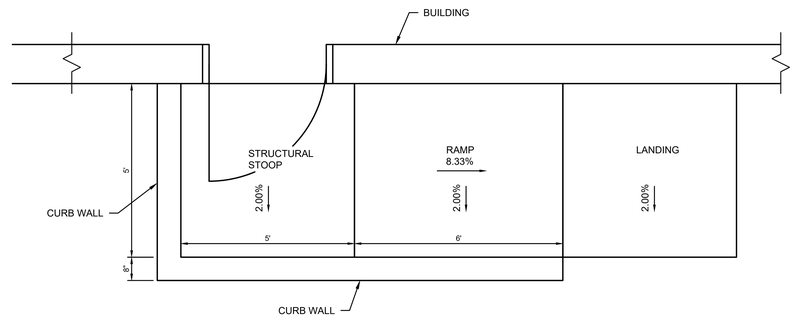
1 / - BUS SHELTER
NTS



NOTES:

1. PREPARE SUBGRADE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, A MINIMUM OF 8 INCHES OF SUBGRADE SHALL BE SCARIFIED AND RECOMPACTED, FOLLOWED BY PROOFROLLING.

3 / - AGGREGATE SURFACING SECTION - 12"
NTS



4 / - ACCESS RAMP TO BUILDING
NTS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-2500-SITE DETAILS 7/14/2025 1:13 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

SITE DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-2505
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3000 GRADING AND DRAINAGE PLAN - OVERALL 6/20/2025 7:37 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

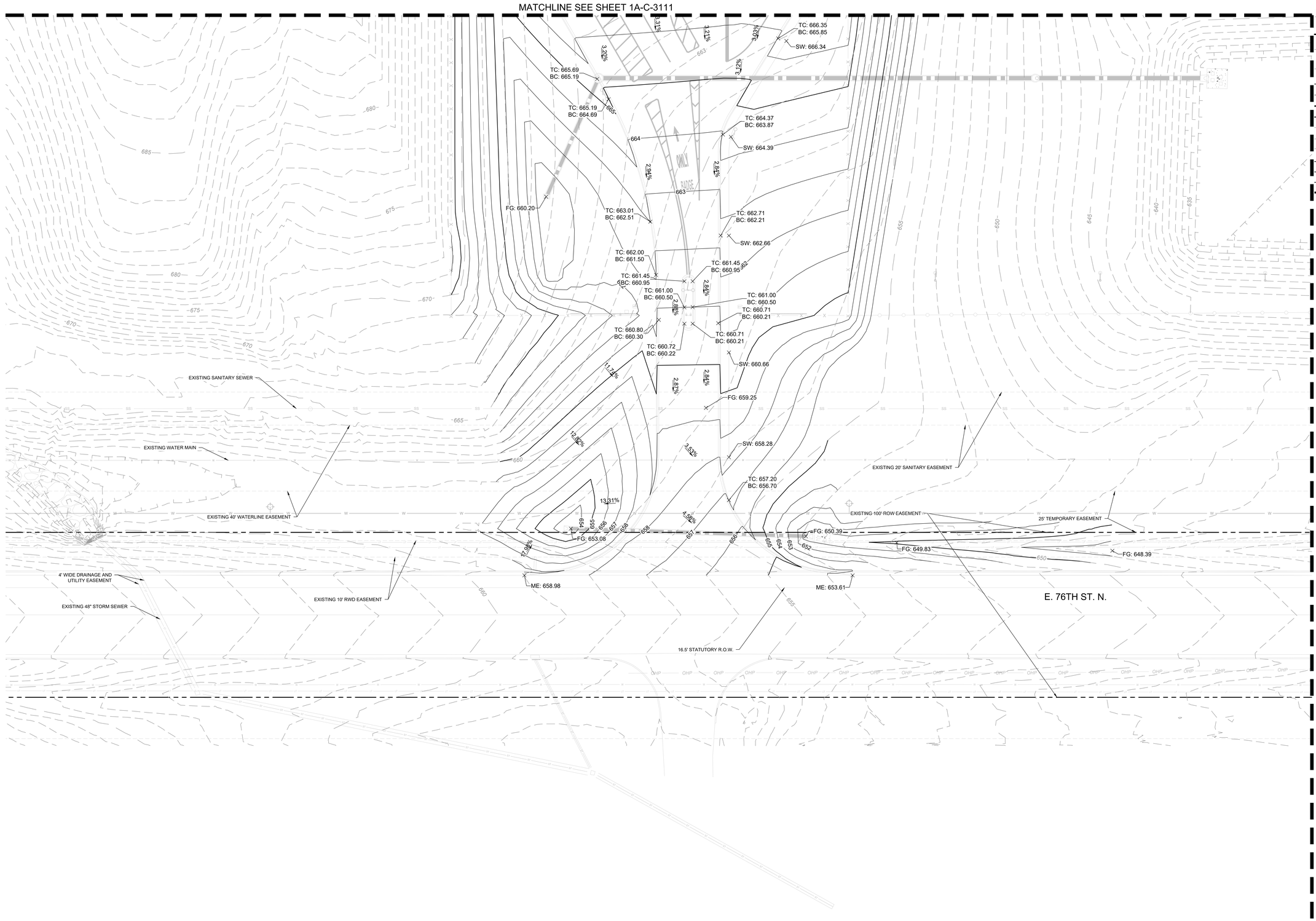
PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (1' INTERVAL)
- EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADE BREAK
- LOD — LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- G — EXISTING GAS LINE
- OHE — EXISTING OVERHEAD ELECTRIC
- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- (281.90) — SPOT ELEVATION
- HP — HIGH POINT
- LP — LOW POINT
- TC — TOP OF CURB
- BC — BOTTOM OF CURB / GUTTER LINE
- TW — TOP OF GRADE AT WALL
- BW — BOTTOM OF GRADE @ EXPOSED WALL
- INV — INVERT
- RIM — TOP OF GRATE / COVER

NOTES

1. CONTRACTOR TO INSTALL ALL REQUIRED INITIAL EPSC MEASURES PER PLANS PRIOR TO ANY DEMOLITION OR CLEARING AND GRUBBING
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12. ALL GRADING AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FINAL GEOTECHNICAL ENGINEERING REPORT.

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 4/1/2026 8:49 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

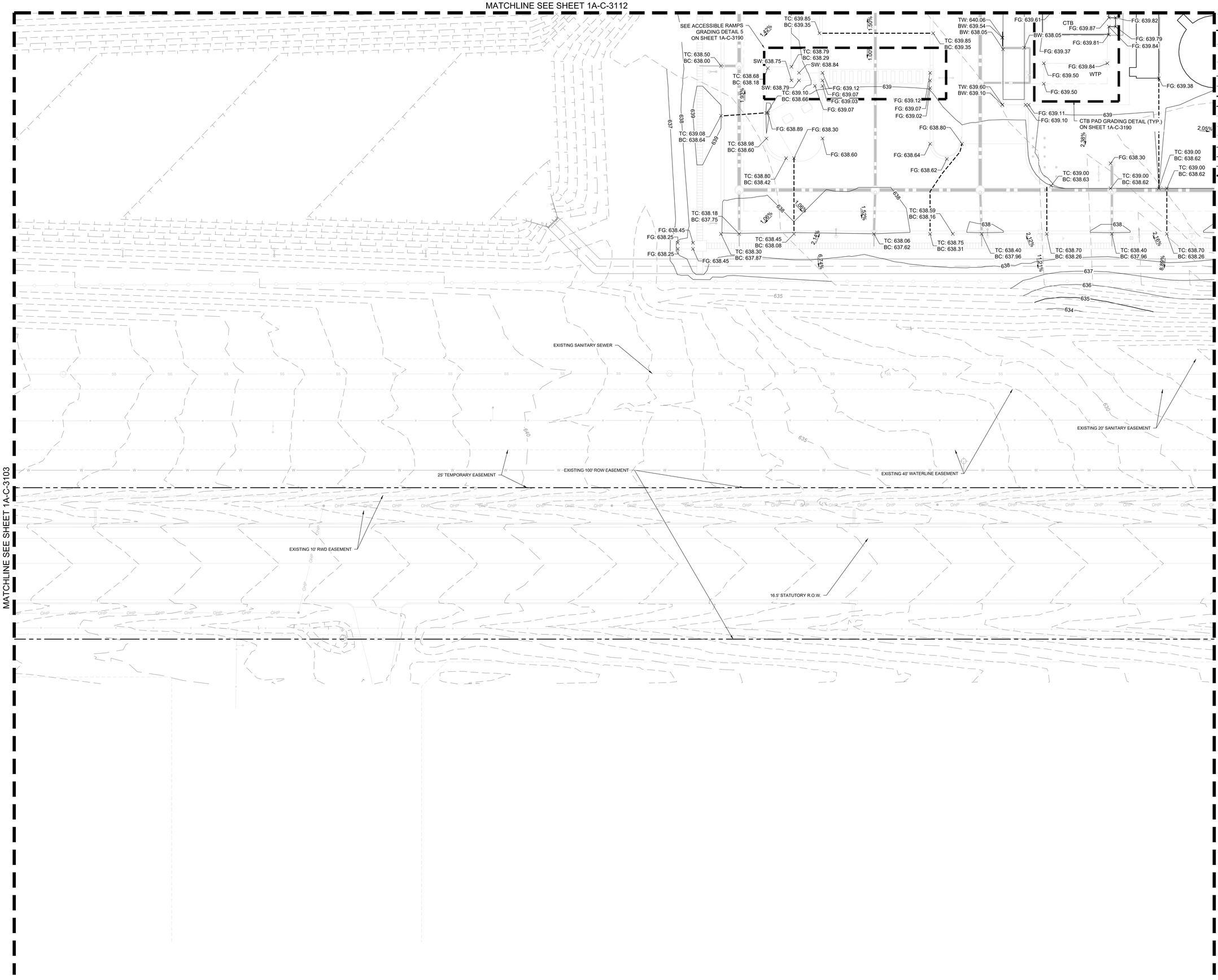
SHEET NUMBER:
1A-C-3103

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3112

MATCHLINE SEE SHEET 1A-C-3103

MATCHLINE SEE SHEET 1A-C-3105



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (1' INTERVAL)
- EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADE BREAK
- LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- SPOT ELEVATION

HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB / GUTTER LINE
TW	TOP OF GRADE AT WALL
BW	BOTTOM OF GRADE @ EXPOSED WALL
INV	INVERT
RIM	TOP OF GRATE / COVER

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MYD COMPONENT ELEVATIONS

COMPONENT	T/SLAB	FFE
MCP	640.00'	641.08'
CTP	640.00'	641.08'
MUPT	640.00'	641.08'
WPT (FUTURE)	640.00'	641.08'
MWT	640.00'	640.00'
gRESTROOM	639.12'	639.12'
gREFUGE ROOM	639.12'	639.12'
GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 4/1/2026 8:49 PM

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL GRAY — OKLAHOMA
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

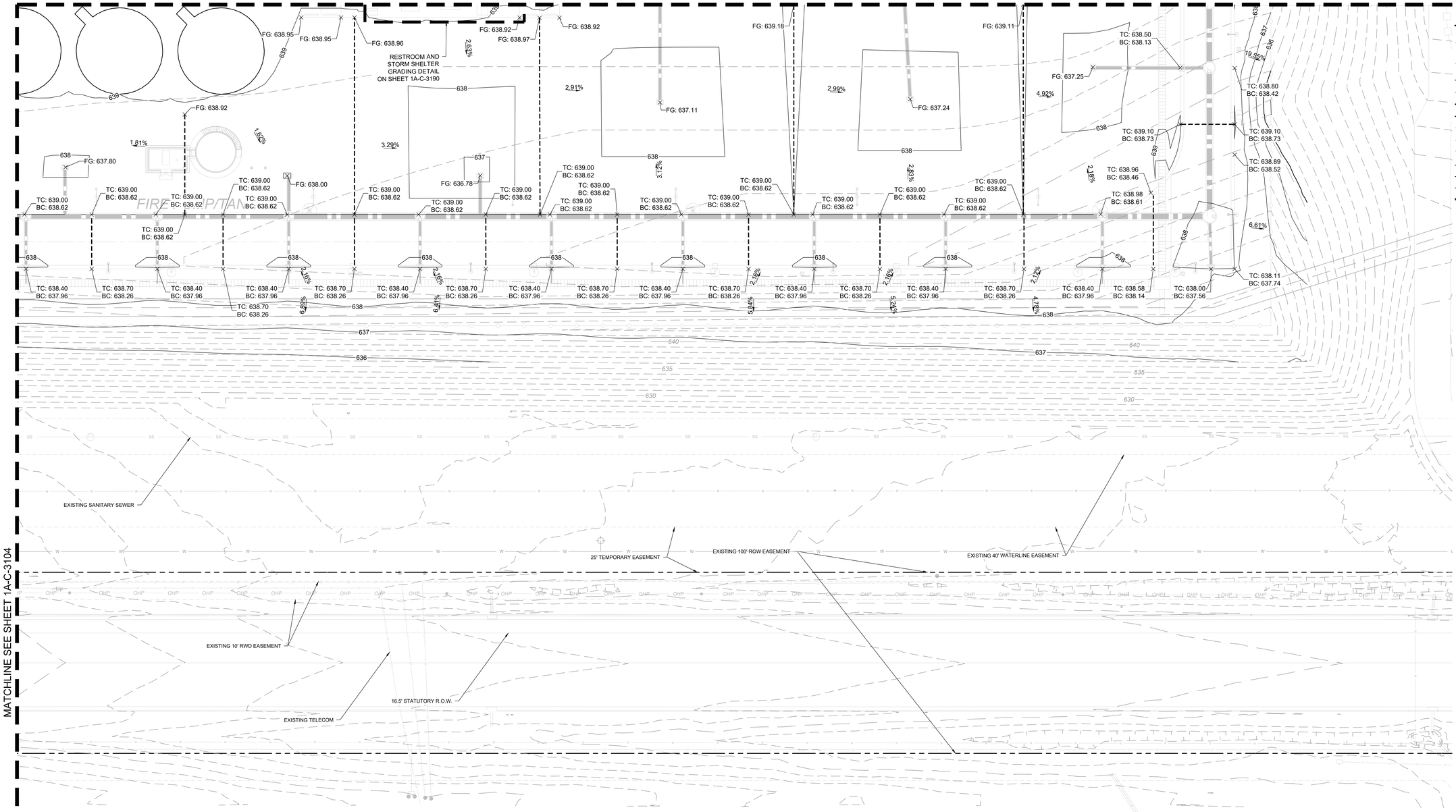
GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3104

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3113



MATCHLINE SEE SHEET 1A-C-3104

LEGEND

- PROPERTY LINE
- 200 EXISTING MAJOR CONTOUR (1' INTERVAL)
- 201 EXISTING MINOR CONTOUR (1' INTERVAL)
- 200 PROPOSED MAJOR CONTOUR
- 201 PROPOSED MINOR CONTOUR
- GRADE BREAK
- LOD LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- G EXISTING GAS LINE
- OHE EXISTING OVERHEAD ELECTRIC
- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- (281.90) SPOT ELEVATION
- HP HIGH POINT
- LP LOW POINT
- TC TOP OF CURB
- BC BOTTOM OF CURB / GUTTER LINE
- TW TOP OF GRADE AT WALL
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- INV INVERT
- RIM TOP OF GRATE / COVER

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SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL GREEN OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

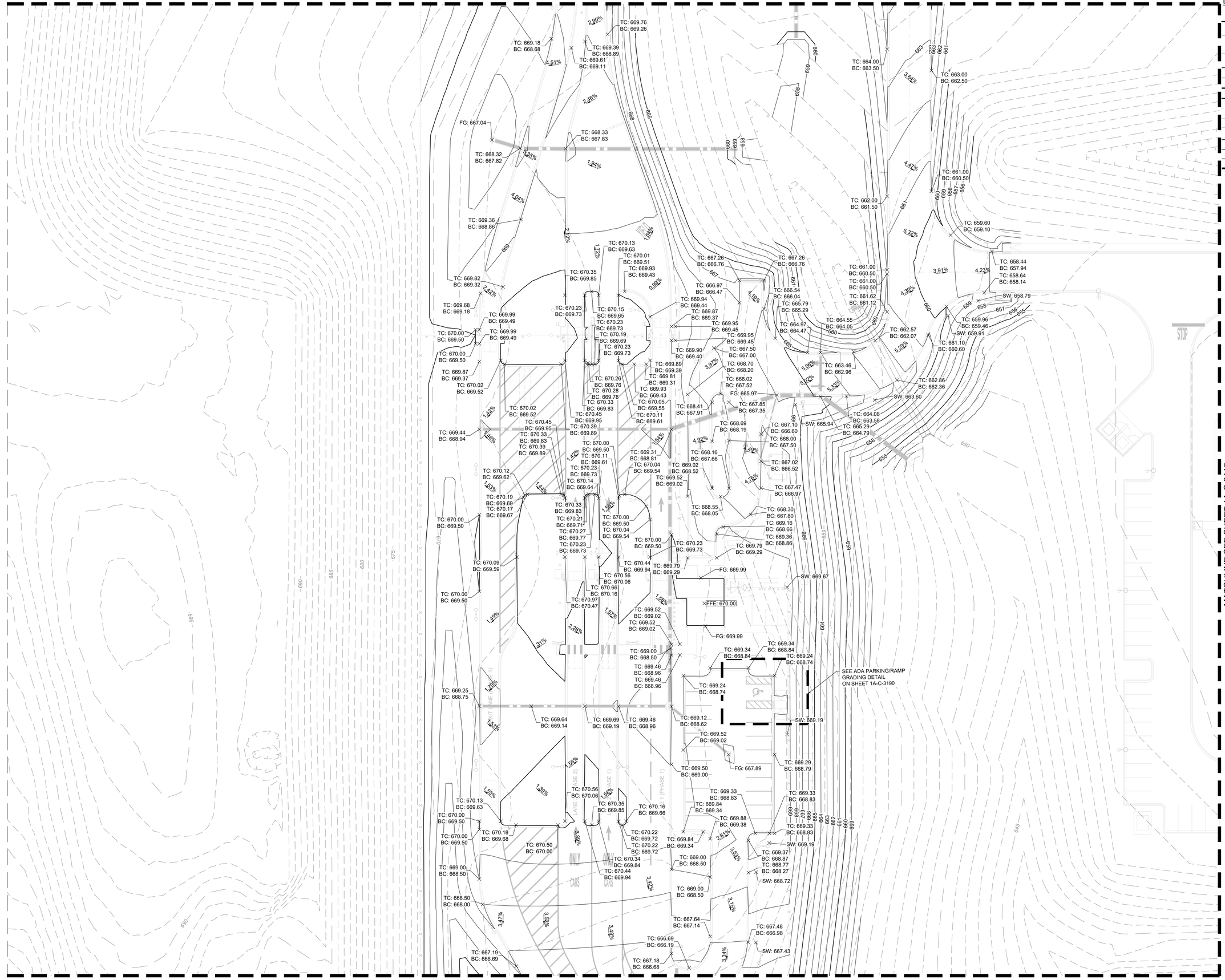
CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3105
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 4/1/2026 8:49 PM

MATCHLINE SEE SHEET 1A-C-3119



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- 200 — EXISTING MAJOR CONTOUR (1' INTERVAL)
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- 200 — PROPOSED MAJOR CONTOUR
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MATCHLINE SEE SHEET 1A-C-3112

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 4/1/2026 8:49 PM

HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3120

MATCHLINE SEE SHEET 1A-C-3111

MATCHLINE SEE SHEET 1A-C-3113

HUB 1A
FFE: 657.50

CYL 1A DC
FFE: 640.00

OFFICE

DRILLED PIER (TYP.)

TRESTLE FOUNDATION (TYP.)

SEE ACCESSIBLE RAMPS GRADING DETAIL 1 ON SHEET 1A-C-3190

SEE ACCESSIBLE RAMPS GRADING DETAIL 2 ON SHEET 1A-C-3190

SEE ADA PARKING/RAMP GRADING DETAIL ON SHEET 1A-C-3190

SEE USS PAD ADJACENT GRADING DETAIL 2 (TYP.) ON SHEET 1A-C-3190

SEE USS PAD ADJACENT GRADING DETAIL 1 (TYP.) ON SHEET 1A-C-3190

COD PAD DETAIL (TYP.) ON SHEET 1A-C-3190

1A-ROADWAY-02

UPS A-1-a

UPS A-1-b

UPS B-1-a

UPS B-1-b

PMDC A-1

PMDC B-1

COD

USS

FFE: 640.00

LEGEND

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GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

EYD DESIGN ELEVATIONS

STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
USS	640.00'	TOP OF PAD
SSS/GPS	645.32'	FINISH FLOOR ELEVATION
UPS A-1-a	639.33'	TOP OF PAD
UPS A-1-b	639.33'	TOP OF PAD
UPS B-1-a	640.00'	TOP OF PAD
UPS B-1-b	640.00'	TOP OF PAD
PMDC A-1	639.17'	TOP OF PAD
PMDC B-1	639.33'	TOP OF PAD
COD	640.00'	TOP OF PAD
GENERATOR	638.16'	TOP OF PAD
FUEL CABINET PAD	636.41'	TOP OF PAD

N

0' 10' 20' 40'
SCALE IN FEET

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SHEET NUMBER:
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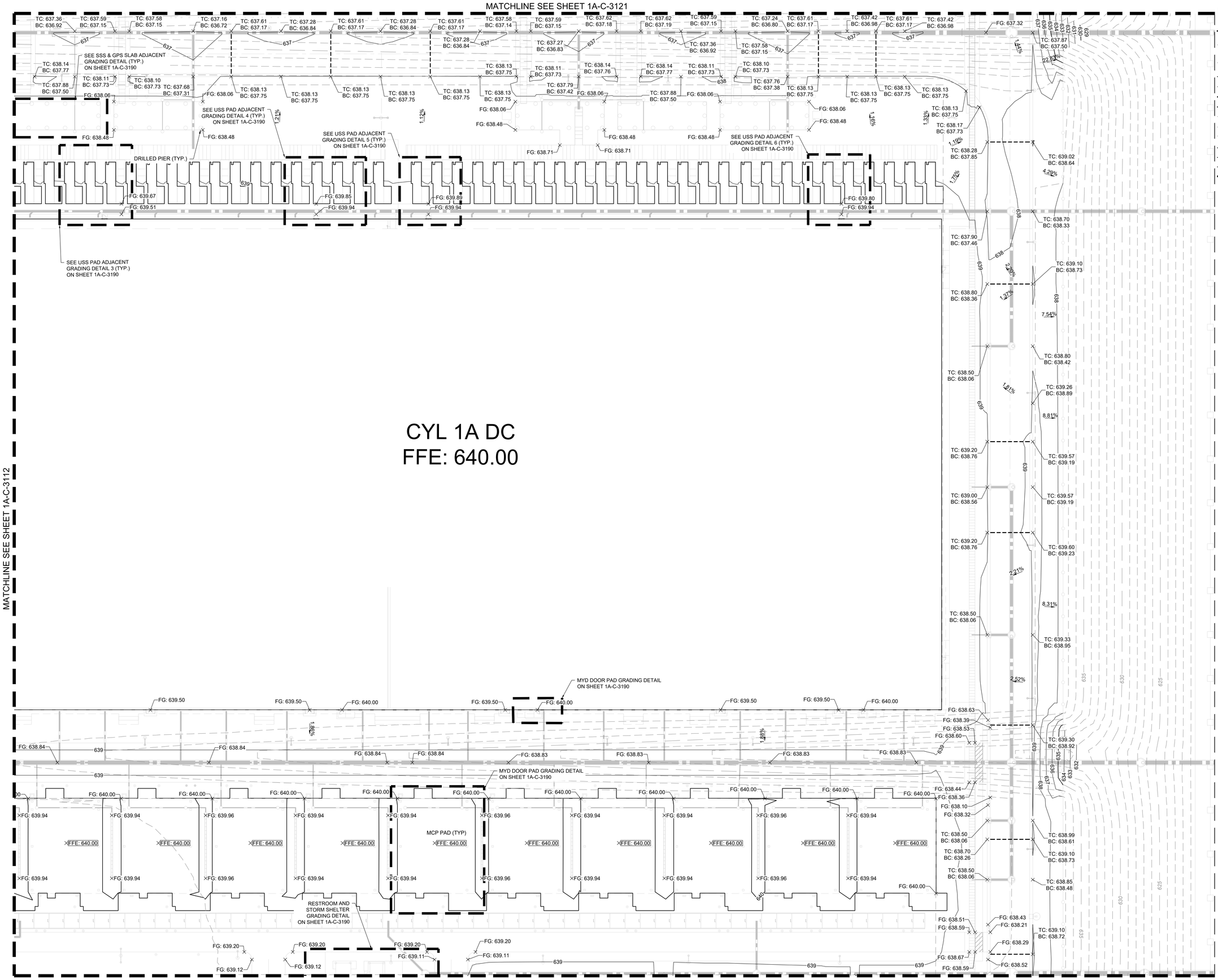
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (1' INTERVAL)
- EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADE BREAK
- LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- SPOT ELEVATION

HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
BC	BOTTOM OF CURB / GUTTER LINE
TW	TOP OF GRADE AT WALL
BW	BOTTOM OF GRADE @ EXPOSED WALL
INV	INVERT
RIM	TOP OF GRATE / COVER

NOTES

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12. ALL GRADING AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FINAL GEOTECHNICAL ENGINEERING REPORT.

MYD COMPONENT ELEVATIONS

COMPONENT	T/SLAB	FFE
MCP	640.00'	641.08'
CTP	640.00'	641.08'
MUPT	640.00'	641.08'
WPT (FUTURE)	640.00'	641.08'
MWT	640.00'	640.00'
gRESTROOM	639.12'	639.12'
gREFUGE ROOM	639.12'	639.12'
GENERATORS	640.00'	
BPS	639.35'	
TOP OF ELECTRIC TRENCH (NORTH)	639.33'	

EYD DESIGN ELEVATIONS

STRUCTURE	ELEVATION	TYPE
DC	640.00'	FINISH FLOOR ELEVATION
USS	640.00'	TOP OF PAD
SSS/GPS	645.32'	FINISH FLOOR ELEVATION
UPS A-1-a	639.33'	TOP OF PAD
UPS A-1-b	639.33'	TOP OF PAD
UPS B-1-a	640.00'	TOP OF PAD
UPS B-1-b	640.00'	TOP OF PAD
PMDC A-1	639.17'	TOP OF PAD
PMDC B-1	639.33'	TOP OF PAD
COD	640.00'	TOP OF PAD
GENERATOR	638.16'	TOP OF PAD
FUEL CABINET PAD	636.41'	TOP OF PAD

N

0' 10' 20' 40'
SCALE IN FEET

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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL OKLAHOMA 04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 4/1/2026 8:49 PM

MATCHLINE SEE SHEET 1A-C-3127

MATCHLINE SEE SHEET 1A-C-3120

EXISTING 50' OVH POWER LINE

150' GRAND RIVER DAM AUTHORITY EASEMENT

1A-ROADWAY-01

1A-ROADWAY-02

1A-ROADWAY-03

1A-ROADWAY-04

1A-ROADWAY-05

1A-ROADWAY-06

1A-ROADWAY-07

1A-ROADWAY-08

1A-ROADWAY-09

1A-ROADWAY-10

1A-ROADWAY-11

1A-ROADWAY-12

1A-ROADWAY-13

1A-ROADWAY-14

1A-ROADWAY-15

1A-ROADWAY-16

1A-ROADWAY-17

1A-ROADWAY-18

1A-ROADWAY-19

1A-ROADWAY-20

1A-ROADWAY-21

1A-ROADWAY-22

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1A-ROADWAY-24

1A-ROADWAY-25

1A-ROADWAY-26

1A-ROADWAY-27

1A-ROADWAY-28

1A-ROADWAY-29

1A-ROADWAY-30

1A-ROADWAY-31

1A-ROADWAY-32

1A-ROADWAY-33

1A-ROADWAY-34

1A-ROADWAY-35

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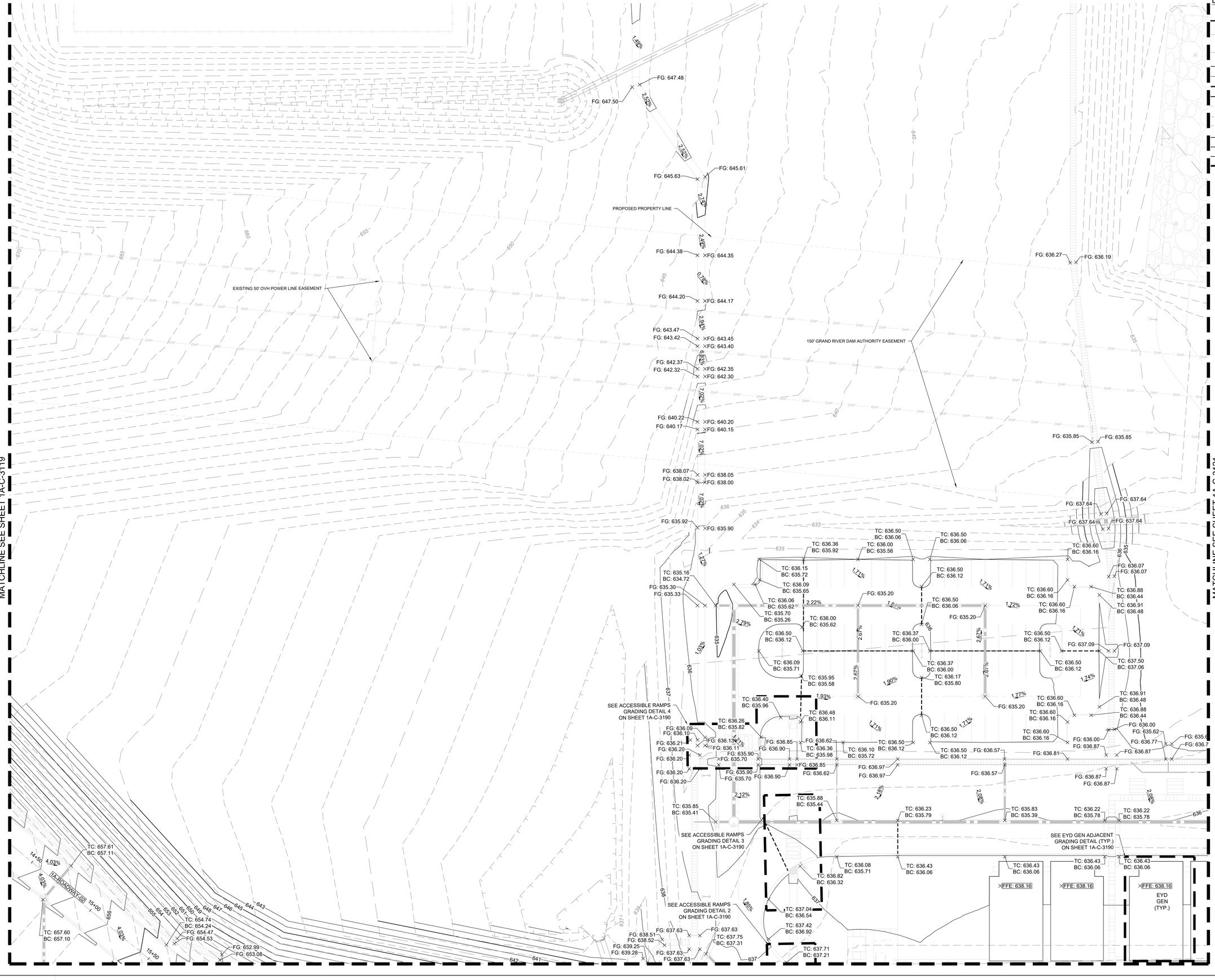
1A-ROADWAY-39

1A-ROADWAY-40



C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWG\SCYL-1A-C-3101 GRADING AND DRAINAGE PLAN 6/19/2025 10:18 AM

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- EXISTING MINOR CONTOUR (1' INTERVAL)
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- PROPOSED MINOR CONTOUR
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- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- SPOT ELEVATION (281.93)

HP	HIGH POINT
LP	LOW POINT
TC	TOP OF CURB
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LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3120

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3101 GRADING AND DRAINAGE PLAN 6/19/2025 10:18 AM

150' GRAND RIVER DAM AUTHORITY EASEMENT

EXISTING 50' OVH POWER LINE EASEMENT

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- GRADE BREAK
- LOD — LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- G — EXISTING GAS LINE
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- DETENTION POND BOTTOM
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- 281.93 — SPOT ELEVATION
- HP — HIGH POINT
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- TC — TOP OF CURB
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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

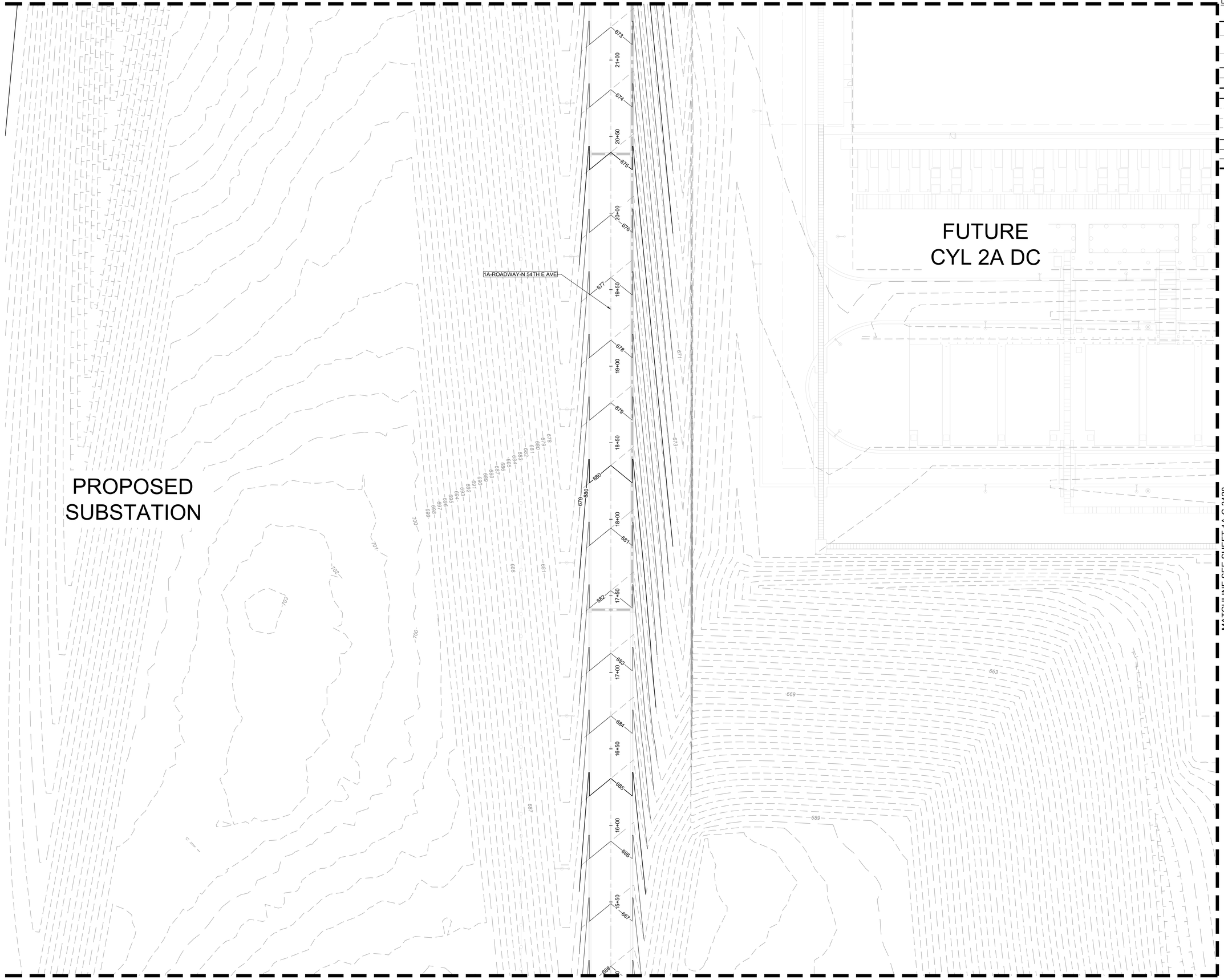
GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3135



LEGEND

- PROPERTY LINE
- 200 EXISTING MAJOR CONTOUR (1' INTERVAL)
- 201 EXISTING MINOR CONTOUR (1' INTERVAL)
- 200 PROPOSED MAJOR CONTOUR
- 201 PROPOSED MINOR CONTOUR
- GRADE BREAK
- LOD LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- G EXISTING GAS LINE
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MATCHLINE SEE SHEET 1A-C-3128

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3125 GRADING AND DRAINAGE PLAN 4/1/2026 9:50 PM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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PROJECT ADDRESS:
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GRADING AND DRAINAGE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3127
PAPER SIZE: E (36"x48")
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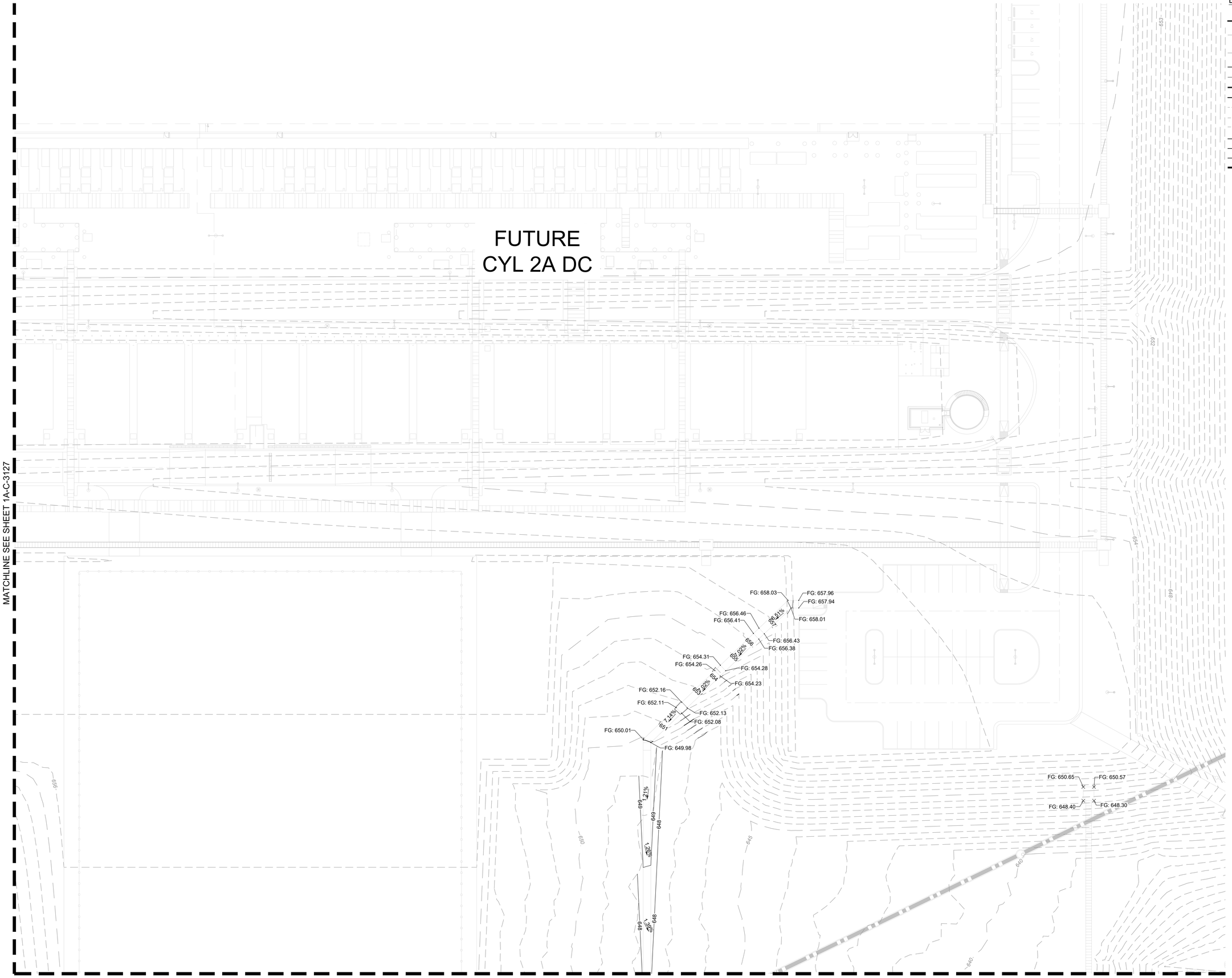

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12. ALL GRADING AND EARTHWORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FINAL GEOTECHNICAL ENGINEERING REPORT.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3125 GRADING AND DRAINAGE PLAN 4/1/2026 9:50 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

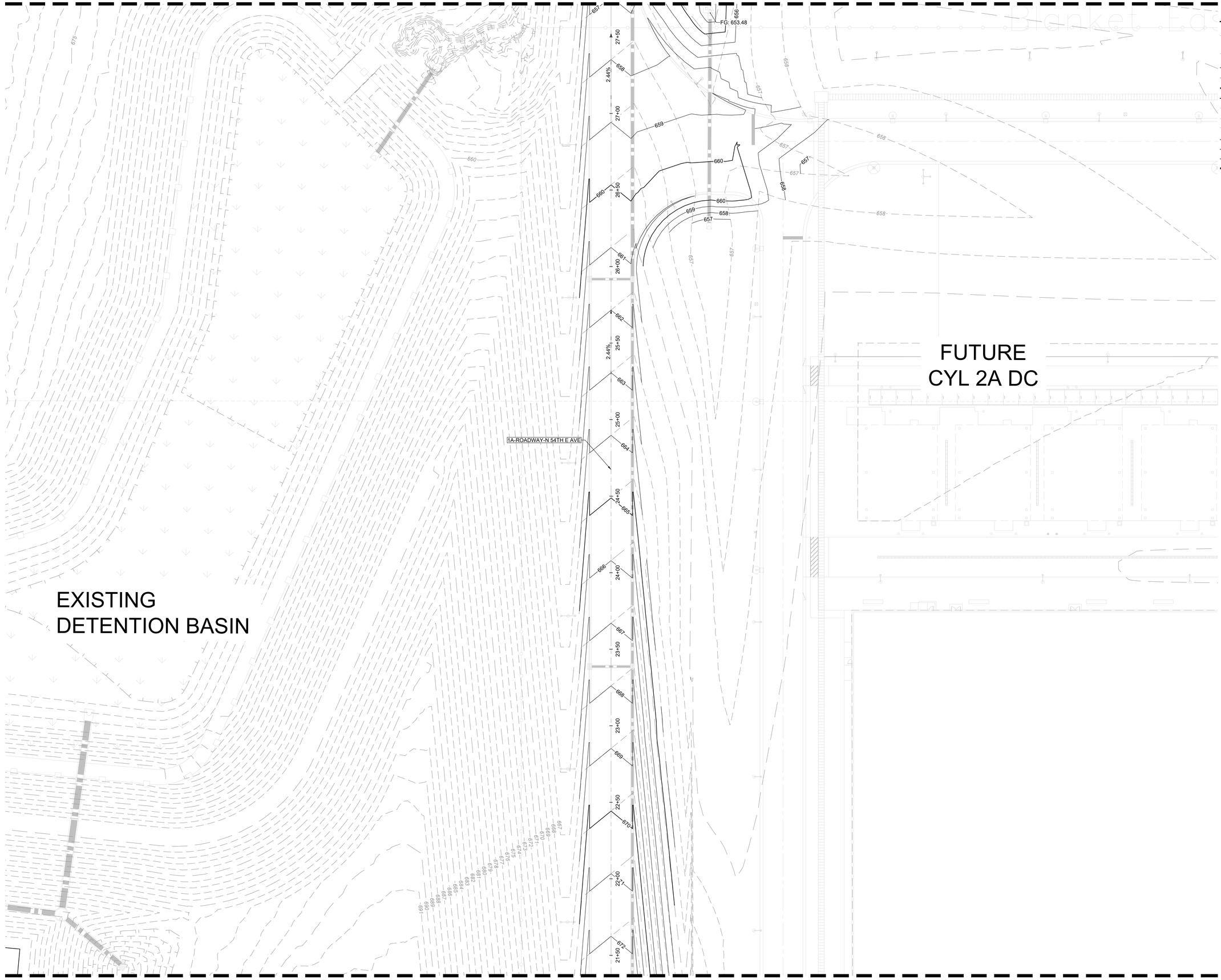
PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3128

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING MAJOR CONTOUR (1' INTERVAL)
- EXISTING MINOR CONTOUR (1' INTERVAL)
- PROPOSED MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- GRADE BREAK
- LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- EXISTING GAS LINE
- EXISTING OVERHEAD ELECTRIC
- DETENTION POND BOTTOM
- BUILDING PAD
- POND EXTENTS
- MATCHLINE
- SPOT ELEVATION
- HP HIGH POINT
- LP LOW POINT
- TC TOP OF CURB
- BC BOTTOM OF CURB / GUTTER LINE
- TW TOP OF GRADE AT WALL
- BW BOTTOM OF GRADE @ EXPOSED WALL
- INV INVERT
- RIM TOP OF GRATE / COVER

NOTES

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3. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS SHOWN ON PLAN AND IMMEDIATELY NOTIFY ENGINEER/OWNER OF ANY DISCREPANCIES.
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5. ANY EXISTING STRUCTURE, IMPROVEMENT, OR APPURTENANCE TO REMAIN THAT IS DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE IMMEDIATELY REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
6. CONTRACTOR SHALL FOLLOW ALL REQUIREMENTS AND GUIDELINES OF THE EROSION CONTROL PLAN AND SITE SWPPP.
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N

0' 10' 20' 40'
SCALE IN FEET

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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
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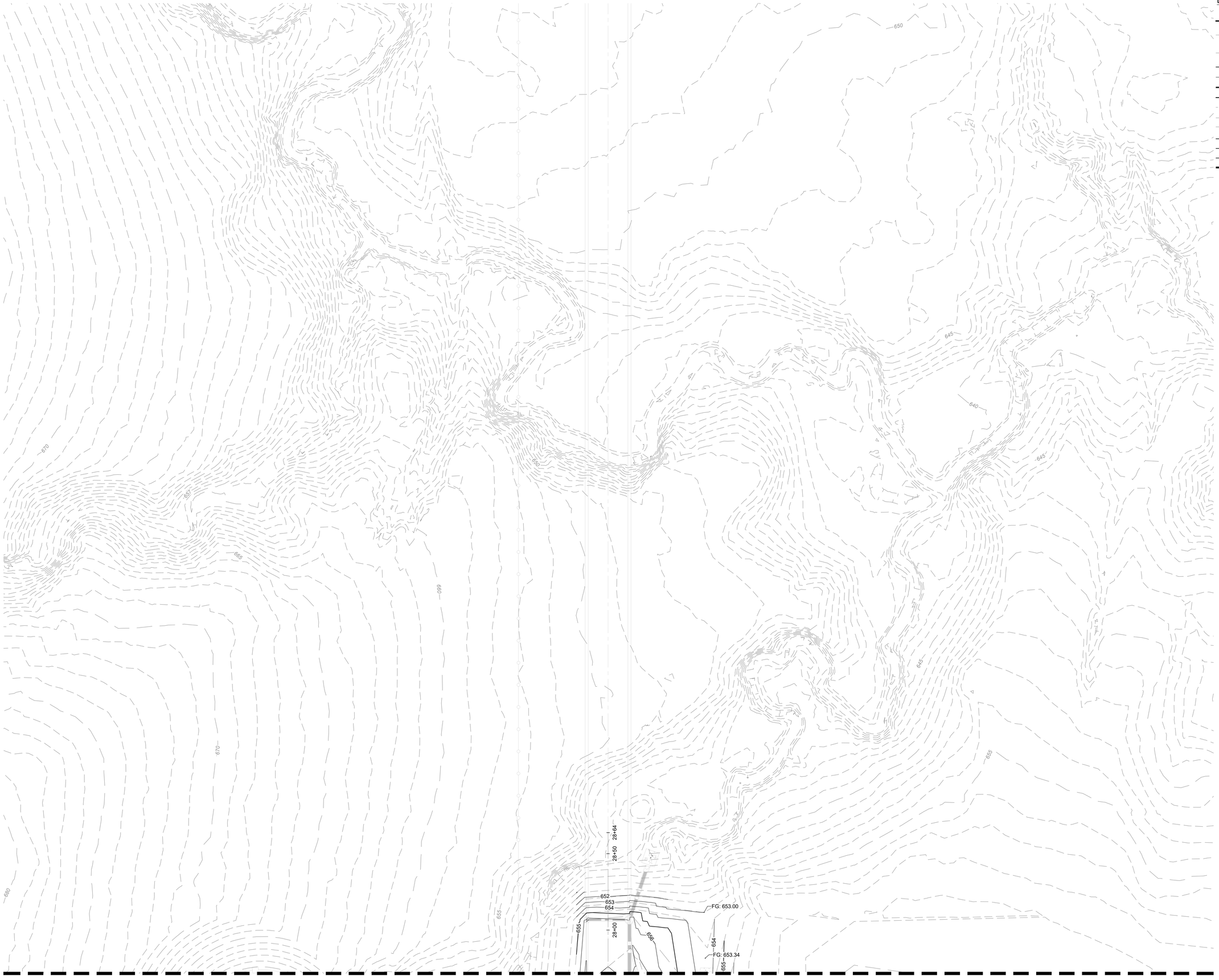

LEGEND

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- 200 — EXISTING MAJOR CONTOUR (1' INTERVAL)
- 201 — EXISTING MINOR CONTOUR (1' INTERVAL)
- 200 — PROPOSED MAJOR CONTOUR
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- GRADE BREAK
- LOD — LIMIT OF DISTURBANCE
- EXISTING EASEMENT
- G — EXISTING GAS LINE
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- DETENTION POND BOTTOM
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PROJ. NO.:10434535

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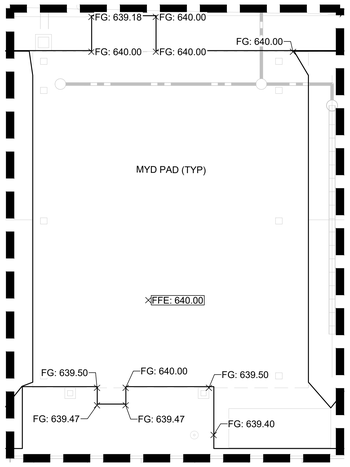

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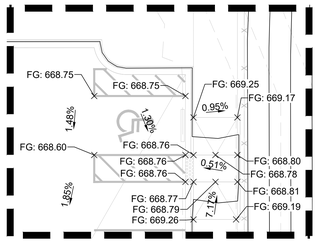

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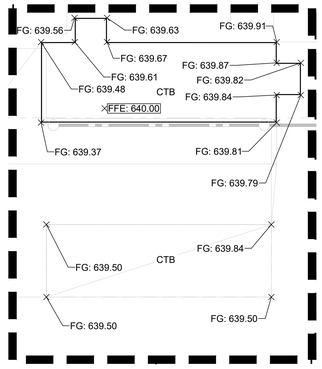

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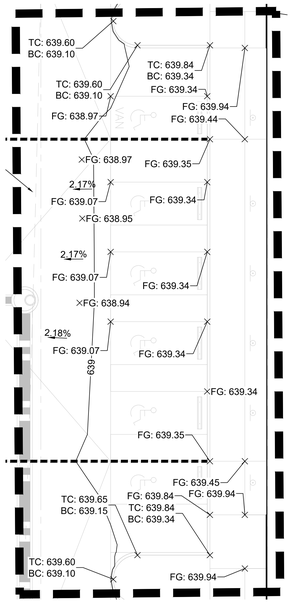

ADA PARKING/RAMP GRADING DETAIL
SCALE 1":10'

LEGEND

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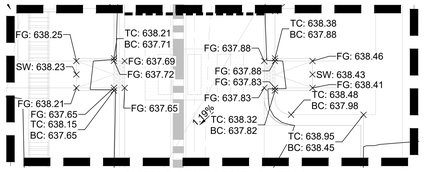

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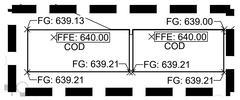

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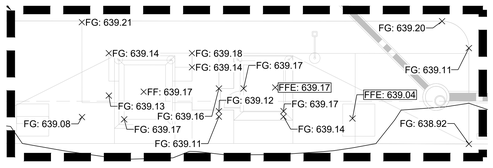

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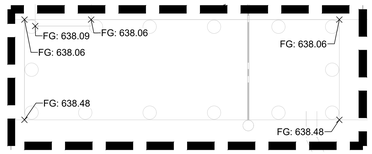

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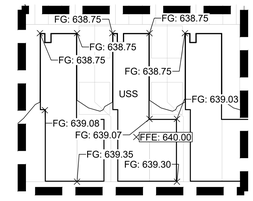

USS PAD ADJACENT GRADING DETAIL 1 (TYP.)
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ACCESSIBLE RAMPS GRADING DETAIL 2
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ACCESSIBLE RAMPS GRADING DETAIL 3
SCALE 1":10'

ACCESSIBLE RAMPS GRADING DETAIL 4
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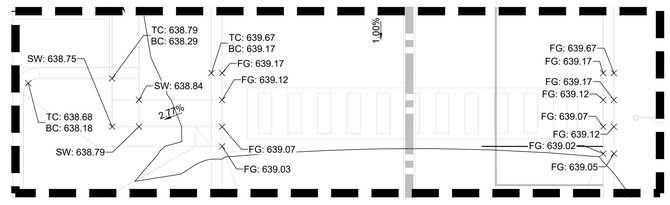

ACCESSIBLE RAMPS GRADING DETAIL 5
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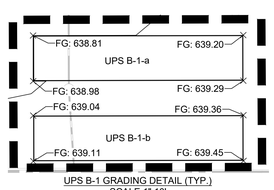

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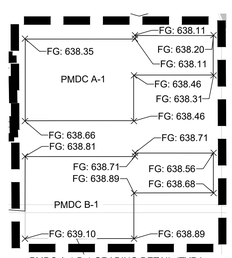

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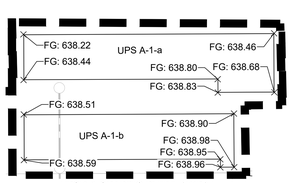

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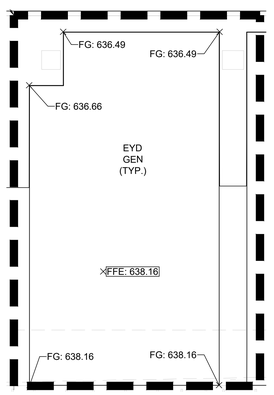

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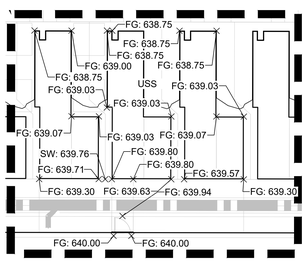

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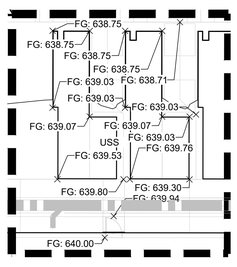

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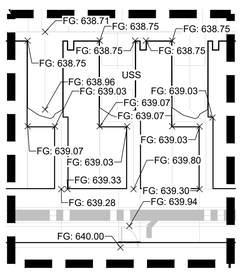

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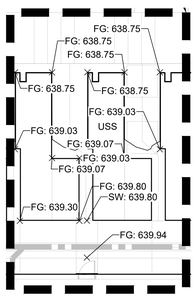

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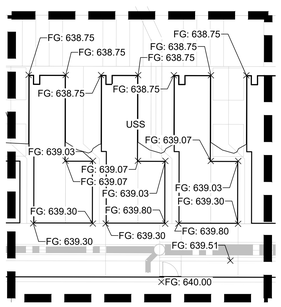

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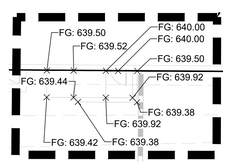

MYD DC DOOR PAD GRADING GRADING DETAIL (TYP.)
SCALE 1":10'

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3190 GRADING AND DRAINAGE PLAN 4/1/2026 10:05 PM

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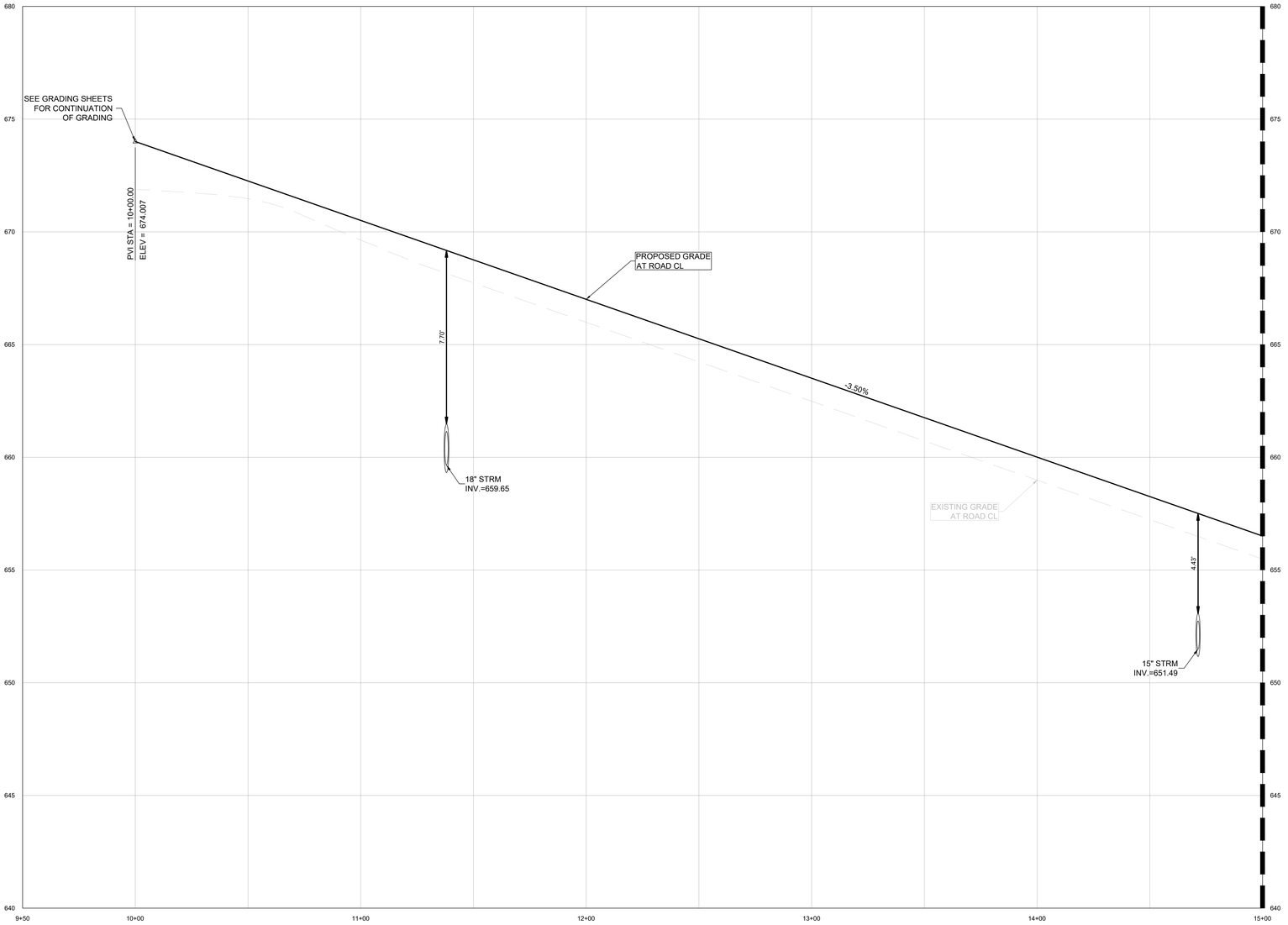
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

GRADING AND DRAINAGE PLAN DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3190
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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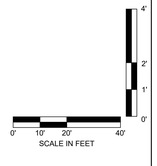

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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KEYPLAN

REVISIONS

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APPRV'D: DGR

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

ROADWAY PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3191

PAPER SIZE: E (36"x48")
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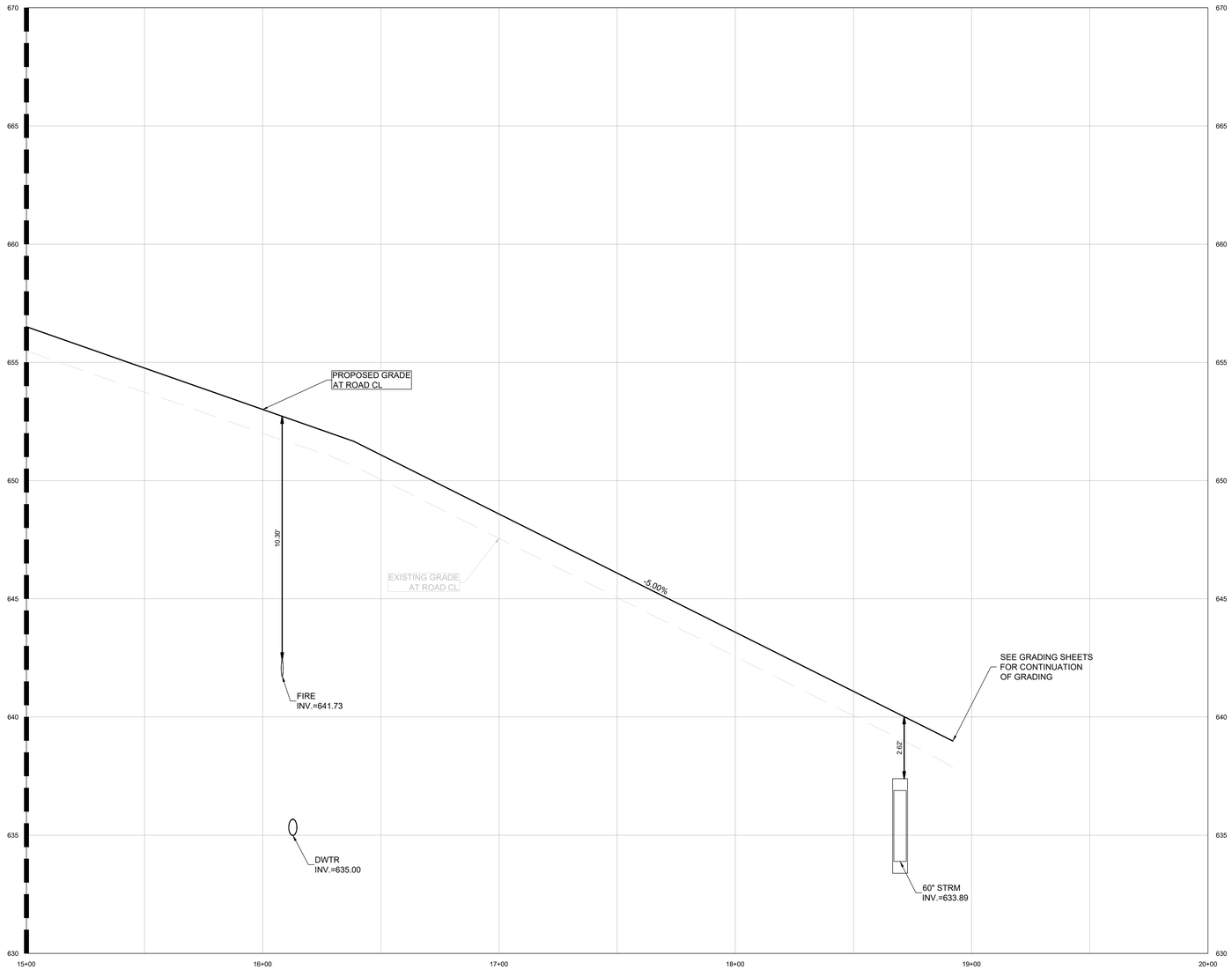

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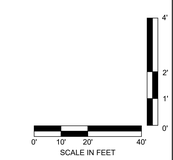

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32522
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

ROADWAY PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3192

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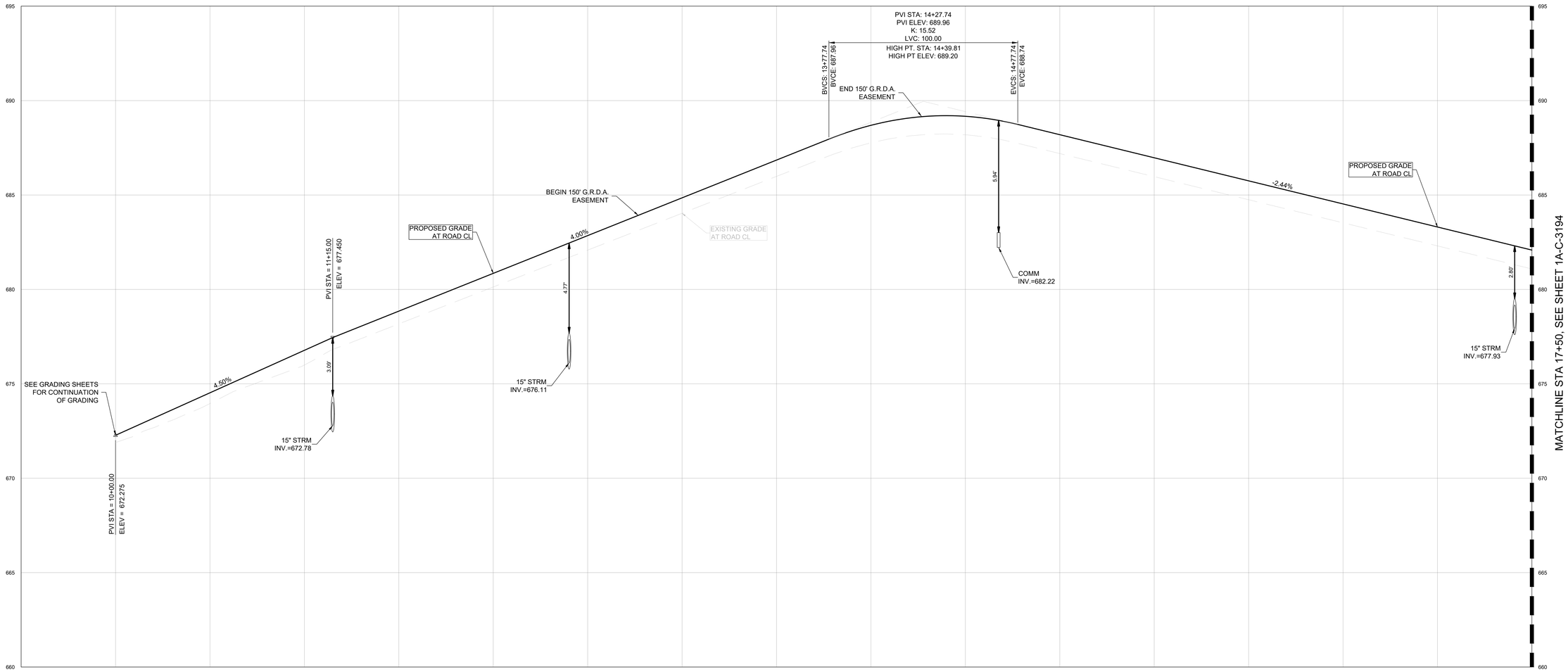
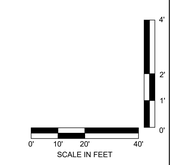


1A-ROADWAY-N 54TH E AVE PROFILE



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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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REVISIONS

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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

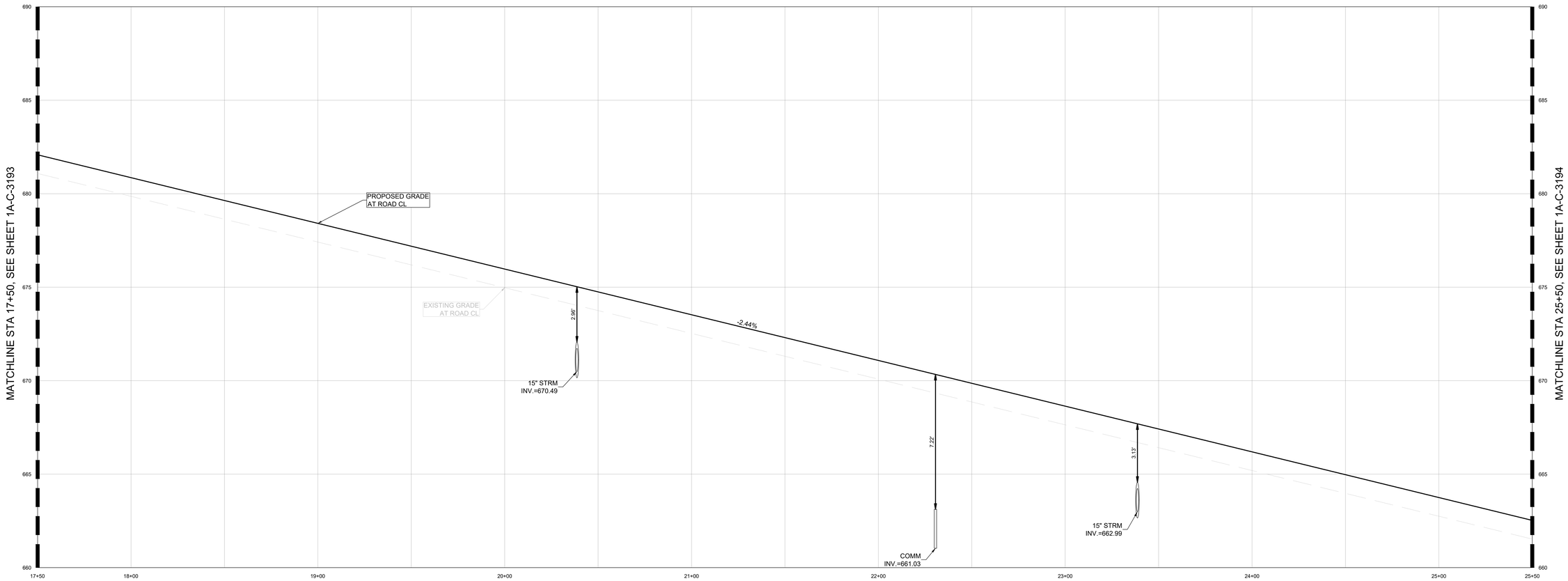
PROJ. NO.:10434535

ROADWAY PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3193

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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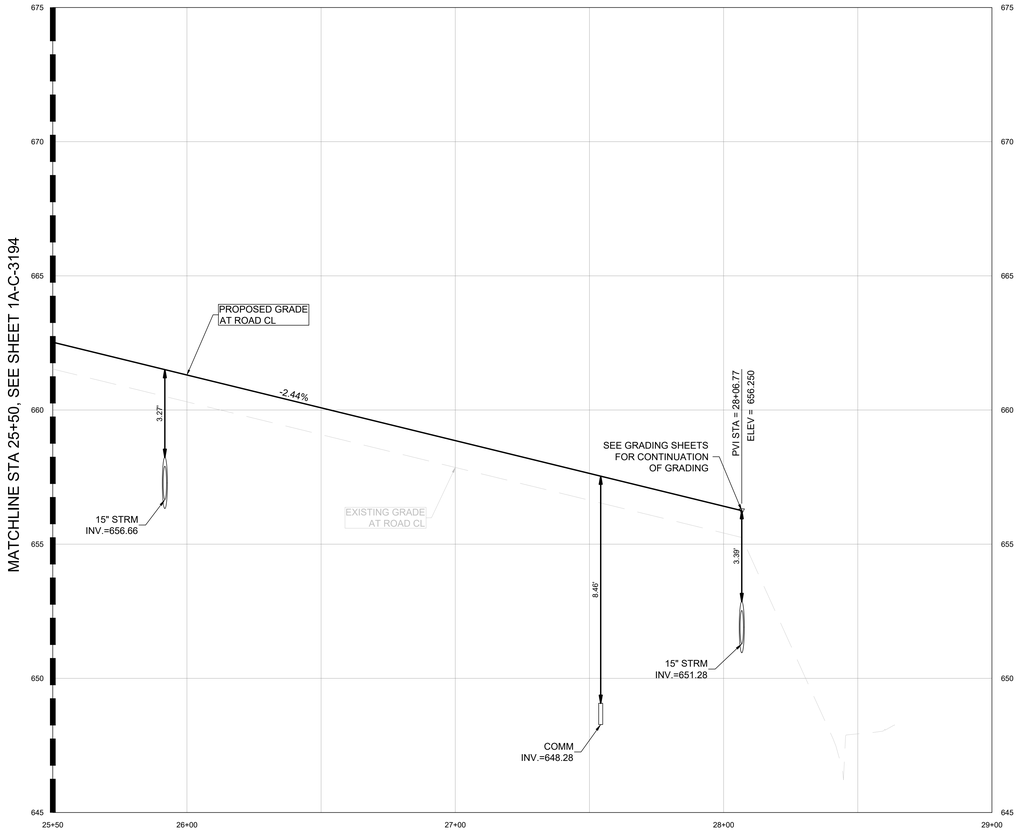

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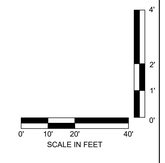

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DEVIN RANDALL
OKLAHOMA
04/09/2026

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ROADWAY PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3194

PAPER SIZE: E (36"x48")
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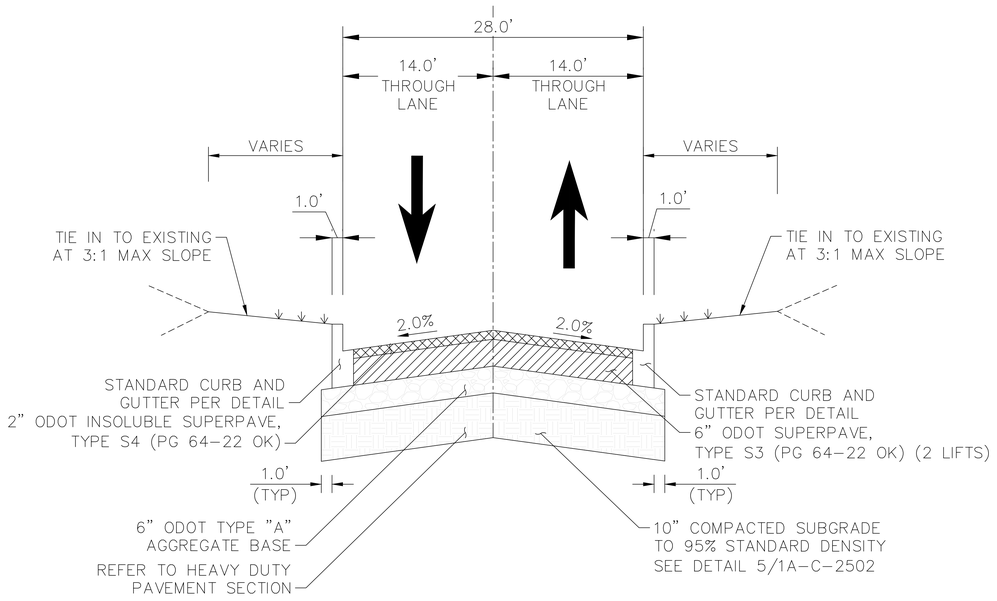

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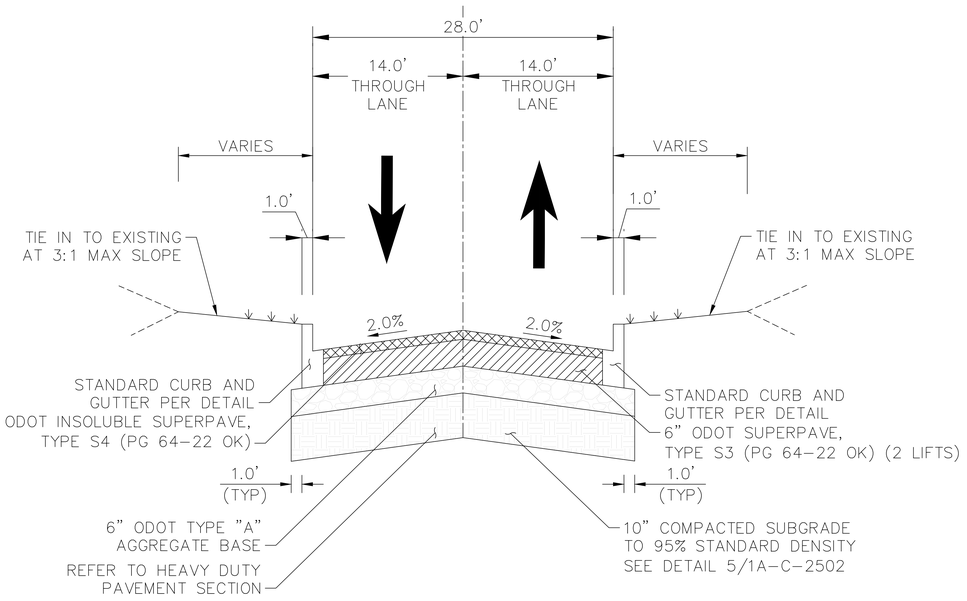

2 1A-ROADWAY-N 54TH E AVE PROPOSED TYPICAL SECTION

SCALE: H: 1"=10'
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04/09/2026

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CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

ROADWAY TYPICAL SECTIONS
SCALE: AS SHOWN

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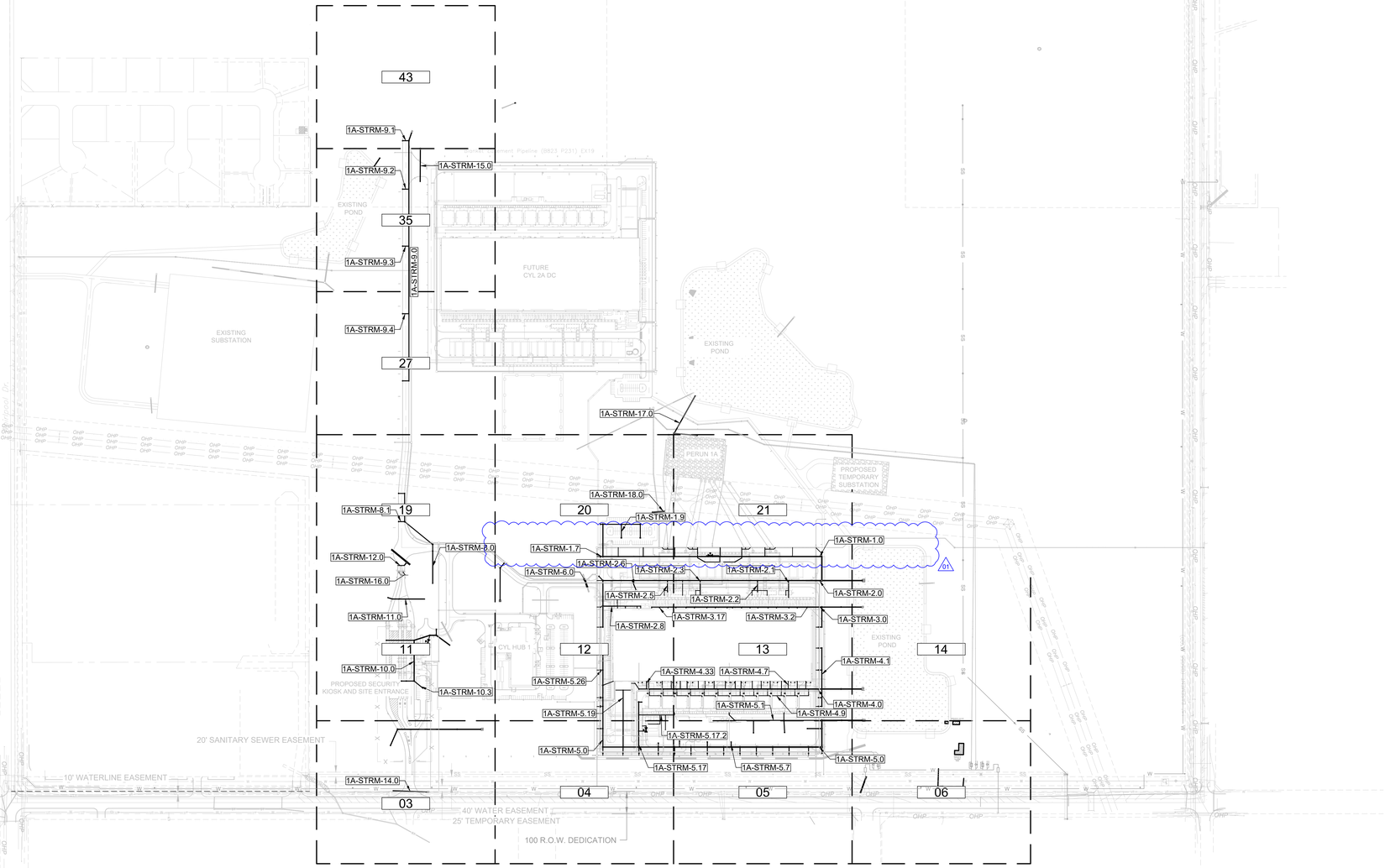

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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
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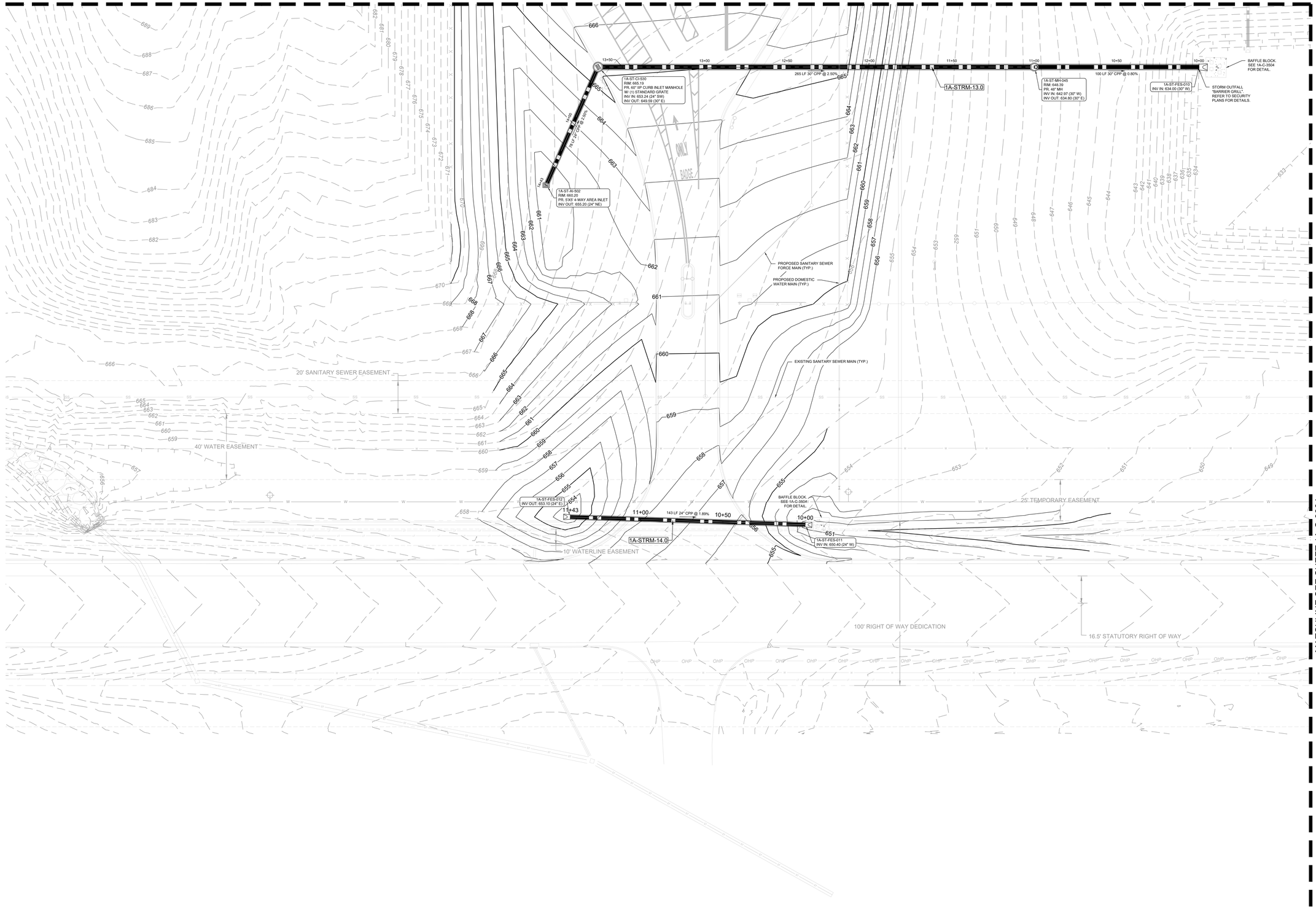

LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

1. INSTALL 12" ACO S300K POWEDRAIN PER DETAIL SHEET 1A-C-3502.
2. 43 LF 6" TRENCH DRAIN @ 0.50%.
3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
4. CONNECT TO ELECTRIC TRENCH PER DETAIL SHEET 1A-C-7510. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
5. ROOF DRAIN CONNECTION TO MAIN VIA WYE AND 1/8 BEND PER DETAIL SHEET 1A-C-3503.
6. CONNECT ACO POWER DRAIN TO NYLOPLAST CATCH BASIN.
7. CONTAINMENT ISOLATION VALVE WITH EXTENDED BONNET HANDWHEEL OPERATOR, PIPE UPSTREAM OF VALVE SHALL BE PVC AND SEALED AND TESTED TO FULLY CONTAIN A SPILL - SEE DETAIL SHEET 1A-C-3503.
8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

1. SEE SHEETS 1A-C-3500, 1A-C-3501, 1A-C-3502, AND 1A-C-3503 FOR STORM INLETS (AI) (CI), AND JUNCTION STRUCTURE (MH) (CB) DETAILS.
2. UNLESS OTHERWISE NOTED ALL CURB INLET OPENINGS WILL BE EITHER 3'X2' STANDARD CURB AND GUTTER INLET GRATES PER DETAIL 2/1A-C-3501 OR 3'X2' MOUNTABLE CURB AND GUTTER INLETS PER DETAIL 3/1A-C-3503.

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LICENSED PROFESSIONAL ENGINEER
DEREK RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3303

PAPER SIZE: E (36"x48")
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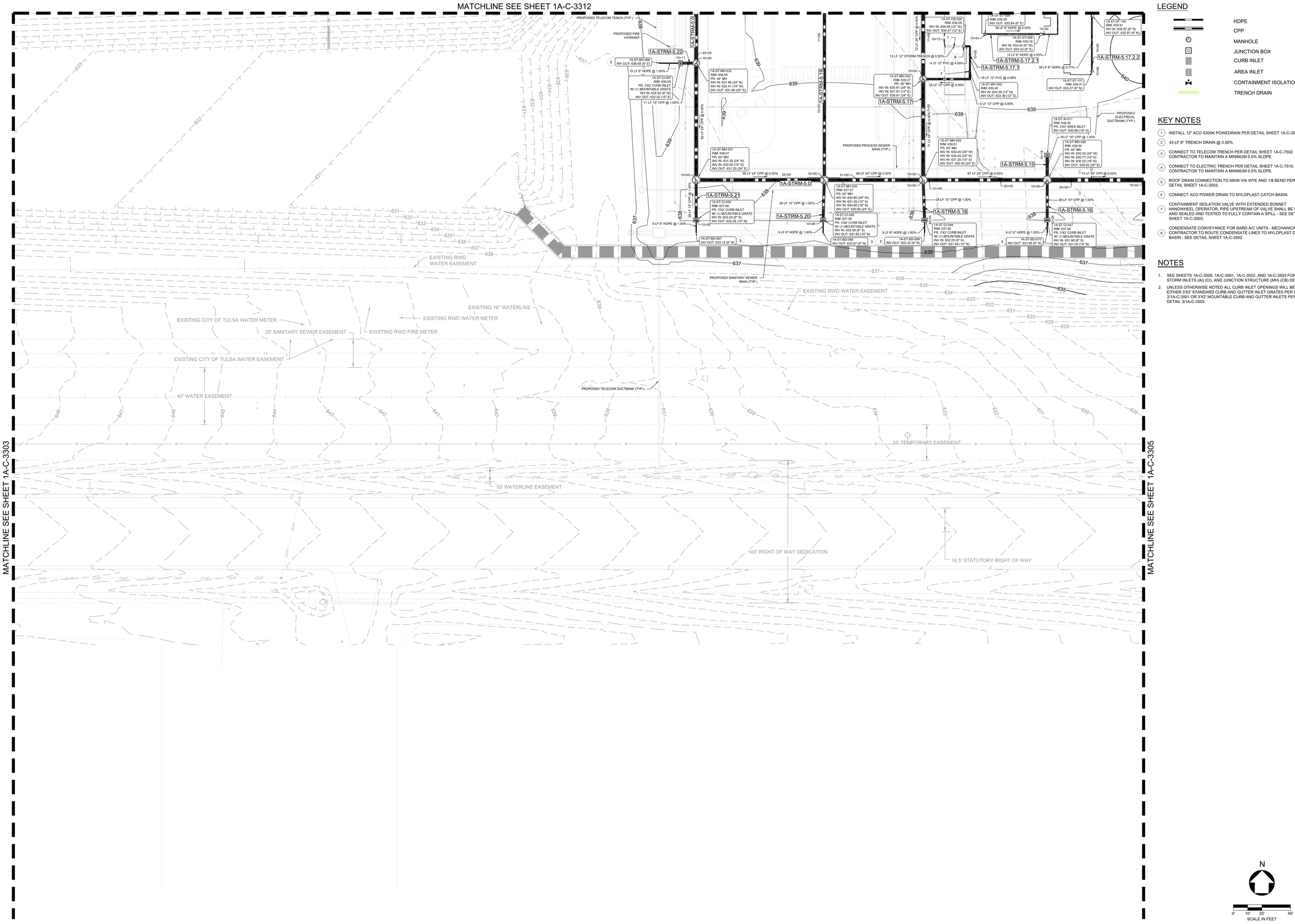

LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

1. INSTALL 12" ACO S300K POWEDRAIN PER DETAIL SHEET 1A-C-3502.
2. 43 LF 6" TRENCH DRAIN @ 0.50%.
3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
4. CONNECT TO ELECTRIC TRENCH PER DETAIL SHEET 1A-C-7510. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
5. ROOF DRAIN CONNECTION TO MAIN VIA WYE AND 1/8 BEND PER DETAIL SHEET 1A-C-3503.
6. CONNECT ACO POWER DRAIN TO NYLOPLAST CATCH BASIN.
7. CONTAINMENT ISOLATION VALVE WITH EXTENDED BONNET HANDWHEEL OPERATOR, PIPE UPSTREAM OF VALVE SHALL BE PVC AND SEALED AND TESTED TO FULLY CONTAIN A SPILL - SEE DETAIL SHEET 1A-C-3503.
8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

1. SEE SHEETS 1A-C-3500, 1A-C-3501, 1A-C-3502, AND 1A-C-3503 FOR STORM INLETS (AI) (CI), AND JUNCTION STRUCTURE (MH) (CB) DETAILS.
2. UNLESS OTHERWISE NOTED ALL CURB INLET OPENINGS WILL BE EITHER 3'X2' STANDARD CURB AND GUTTER INLET GRATES PER DETAIL 2/1A-C-3501 OR 3'X2' MOUNTABLE CURB AND GUTTER INLETS PER DETAIL 3/1A-C-3503.

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1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3304

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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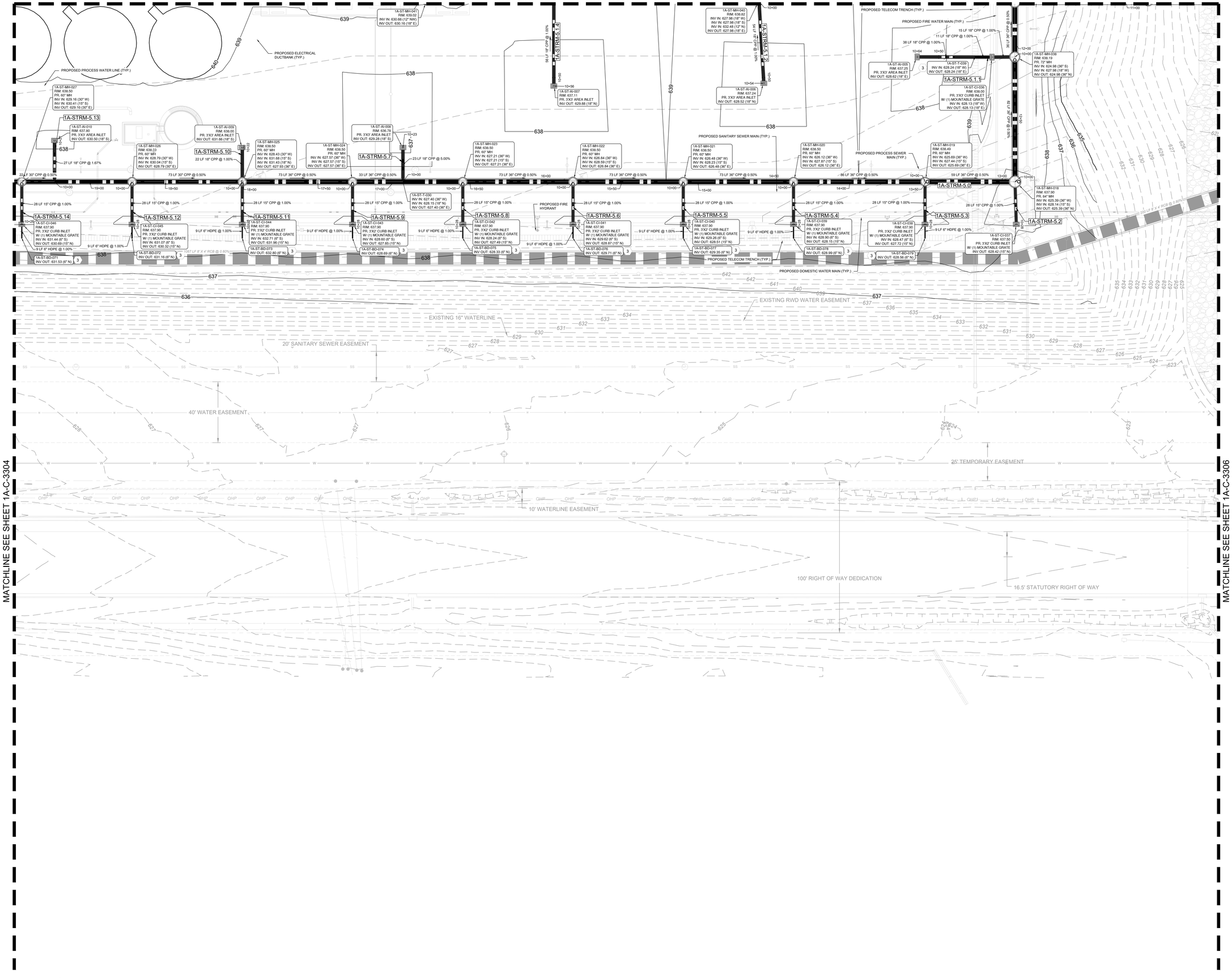

LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

1. INSTALL 12" ACO S300K POWEDRAIN PER DETAIL SHEET 1A-C-3502.
2. 43 LF 6" TRENCH DRAIN @ 0.50%.
3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
4. CONNECT TO ELECTRIC TRENCH PER DETAIL SHEET 1A-C-7510. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
5. ROOF DRAIN CONNECTION TO MAIN VIA WYE AND 1/8 BEND PER DETAIL SHEET 1A-C-3503.
6. CONNECT ACO POWER DRAIN TO NYLOPLAST CATCH BASIN.
7. CONTAINMENT ISOLATION VALVE WITH EXTENDED BONNET HANDWHEEL OPERATOR, PIPE UPSTREAM OF VALVE SHALL BE PVC AND SEALED AND TESTED TO FULLY CONTAIN A SPILL - SEE DETAIL SHEET 1A-C-3503.
8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

1. SEE SHEETS 1A-C-3500, 1A-C-3501, 1A-C-3502, AND 1A-C-3503 FOR STORM INLETS (AI) (CI), AND JUNCTION STRUCTURE (MH) (CB) DETAILS.
2. UNLESS OTHERWISE NOTED ALL CURB INLET OPENINGS WILL BE EITHER 3'X2' STANDARD CURB AND GUTTER INLET GRATES PER DETAIL 2/1A-C-3501 OR 3'X2' MOUNTABLE CURB AND GUTTER INLETS PER DETAIL 3/1A-C-3503.

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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3305

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3314

MATCHLINE SEE SHEET 1A-C-3305

BAFFLE BLOCK. SEE 1A-C-3504 FOR DETAIL.

STORM OUTFALL "BARRIER GRILL" REFER TO SECURITY PLANS FOR DETAILS.

INSTALL STORM OUTFALL "BARRIER GRILL" ON EXISTING HEADWALL REFER TO SECURITY PLANS FOR DETAILS.

200 LF 8'-0" X 4'-0" RCB @ 0.50%

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED FIRE WATER MAIN(TYP.)

APPROXIMATE LOCATION OF COLLAPSED HOUSE

EXISTING RWD WATER METER

EXISTING RWD FIRE WATER METER

EXISTING RWD IRRIGATION WATER METER

EXISTING RWD FIRE WATER METER

EXISTING RWD IRRIGATION WATER METER

EXISTING CITY OF TULSA WATER METER

EXISTING RWD WATER EASEMENT

EXISTING 16" WATERLINE

PROPOSED FIRE WATER MAIN (TYP.)

EXISTING RWD FIRE METER

PROPOSED DOMESTIC WATER MAIN (TYP.)

EXISTING RWD WATER METER

20' SANITARY SEWER EASEMENT

EXISTING CITY OF TULSA WATER METER

EXISTING CITY OF TULSA WATER EASEMENT

MG-ST-PCES-011
INV IN: 619.61 (S 42")

40' WATER EASEMENT

GATE

MG-ST-PCES-012
INV OUT: 620.44 (N 42")

25' TEMPORARY EASEMENT

10' WATERLINE EASEMENT

50' RIGHT OF WAY DEDICATION

16.5' STATUTORY RIGHT OF WAY

LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

1. INSTALL 12" ACO S300K POWEDRAIN PER DETAIL SHEET 1A-C-3502.
2. 43 LF 6" TRENCH DRAIN @ 0.50%.
3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
4. CONNECT TO ELECTRIC TRENCH PER DETAIL SHEET 1A-C-7510. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
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8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

1. SEE SHEETS 1A-C-3500, 1A-C-3501, 1A-C-3502, AND 1A-C-3503 FOR STORM INLETS (AI) (CI), AND JUNCTION STRUCTURE (MH) (CB) DETAILS.
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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3306 STORM SEWER PLAN 6/19/2025 11:53 AM

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KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

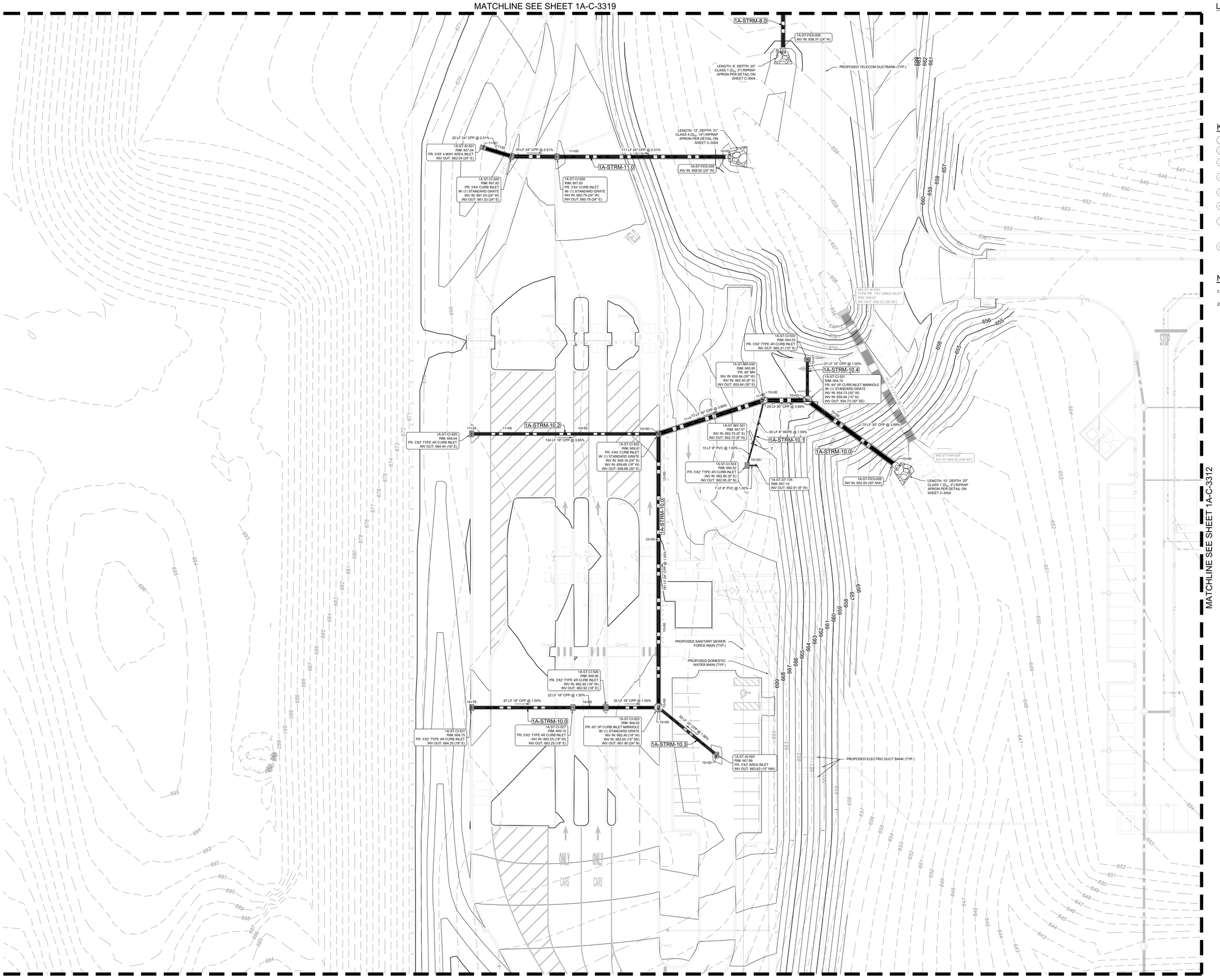
PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3306

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- HDPE
- CPP
- MANHOLE
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- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

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32521
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3311

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3320

MATCHLINE SEE SHEET 1A-C-3311

MATCHLINE SEE SHEET 1A-C-3313

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3301 STORM SEWER PLAN 7/24/2025 12:52 PM

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CYL 1A
FFE: 640.0'

N
0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL GRAY — OKLAHOMA
04/09/2026

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1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
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			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

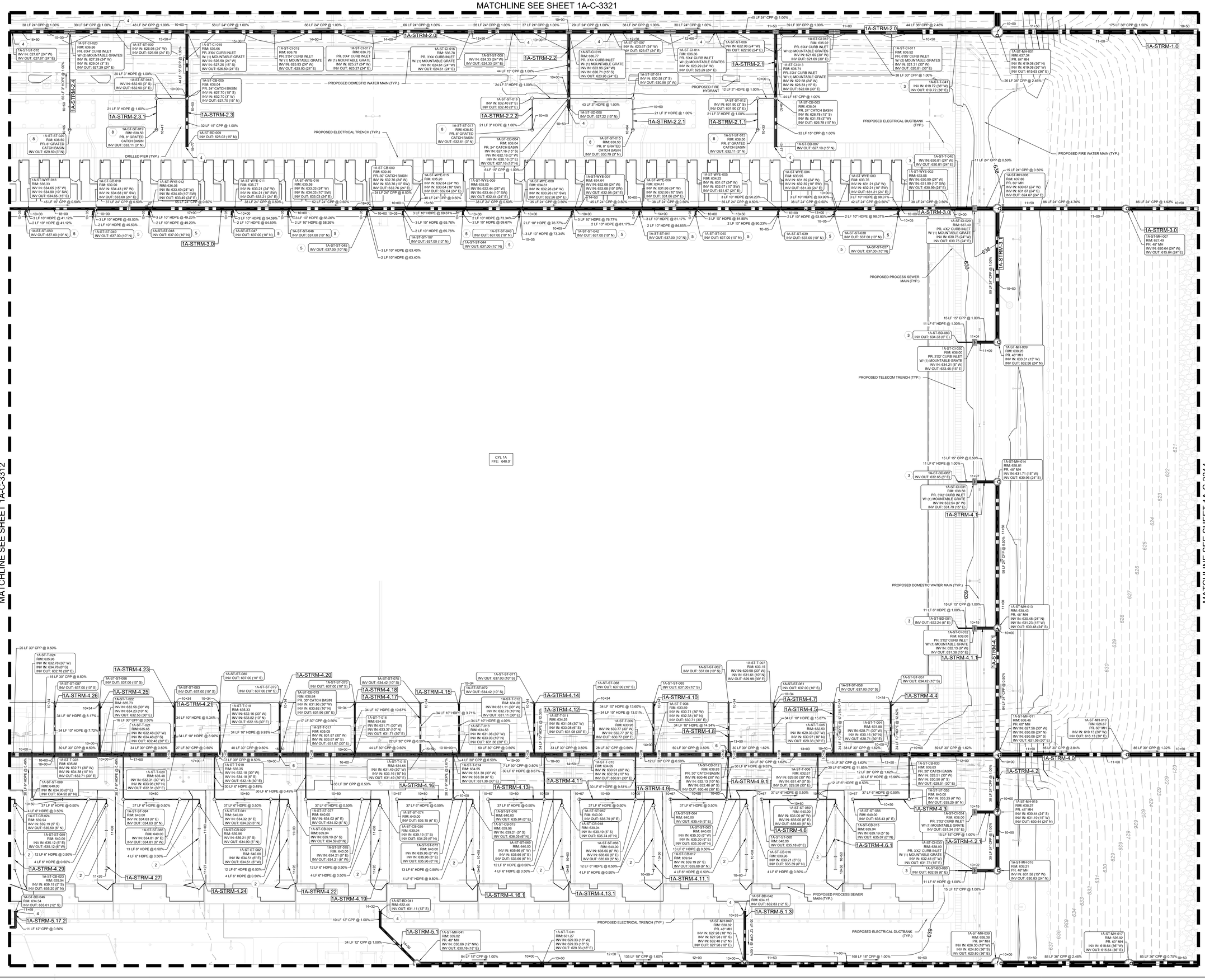
PROJ. NO.:10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3312

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

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			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3313

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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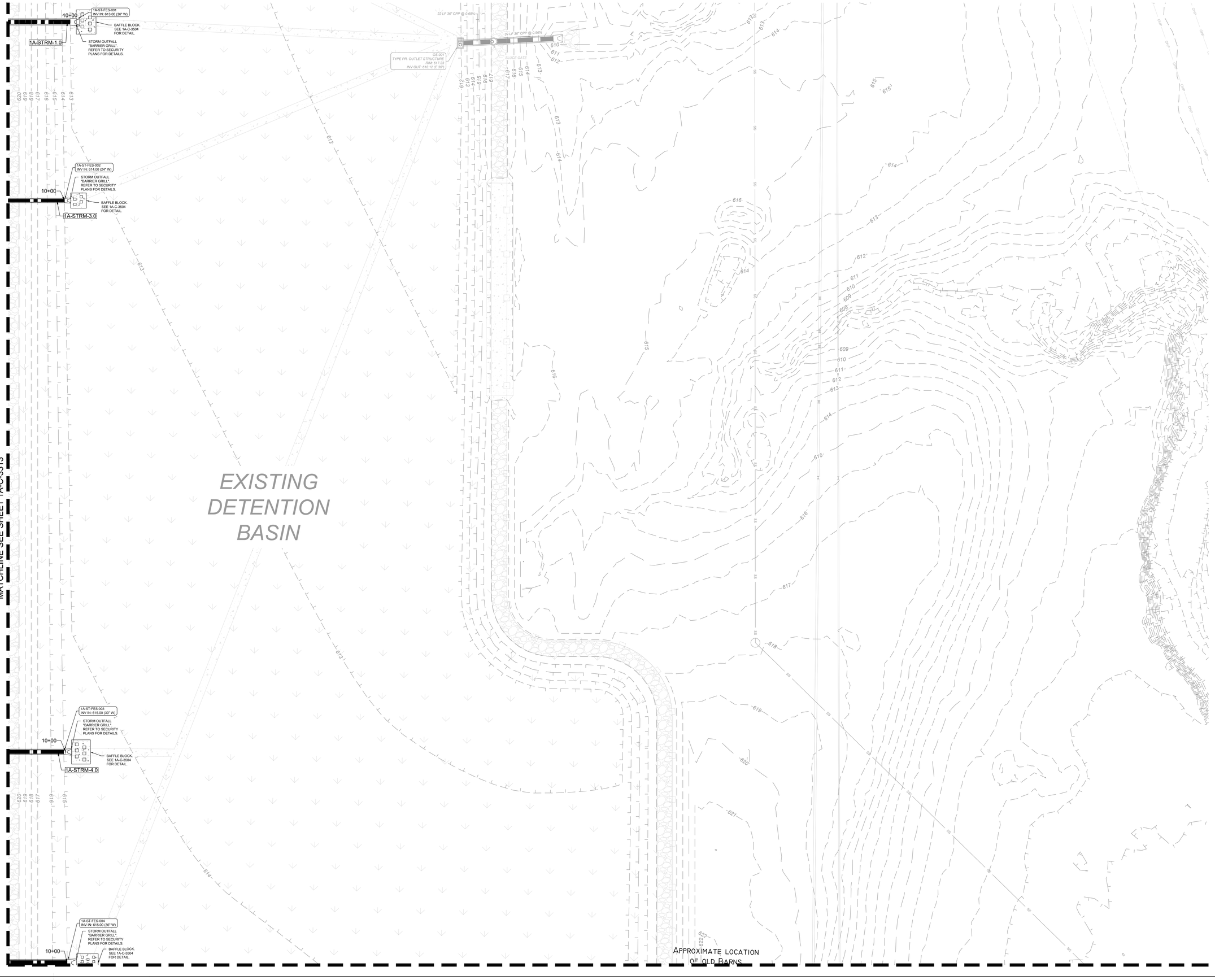

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3314

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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MATCHLINE SEE SHEET 1A-C-3327

MATCHLINE SEE SHEET 1A-C-3320

PROPOSED TELECOM DUCTBANK (TYP.)

1A-ST-CI-509
RIM: 682.19
PR. 3'X2' TYPE 4R CURB INLET
INV OUT: 676.25 (15" E)

27 LF 15" CPP @ 1.04%

1A-ST-CI-508
RIM: 682.19
PR. 3'X3' CURB INLET
W/ (1) STANDARD GRATE
INV IN: 675.97 (15" W)
INV OUT: 675.97 (15" S)

1A-STRM-8.1

1A-STRM-8.0

1A-ST-CI-510
RIM: 677.18
PR. 3'X2' TYPE 4R CURB INLET
INV OUT: 672.92 (15" E)

27 LF 15" CPP @ 1.04%

1A-ST-CC-507
RIM: 677.18
PRL 48" IIP CURB INLET MANHOLE
W: (1) STANDARD GRATE
INV IN: 672.64 (15" N)
INV IN: 672.64 (15" W)
INV OUT: 660.52 (18" SE)

491 LF 18" CPP @ 4.40%

1A-ST-CI-506
RIM: 668.01
PRL 48" IIP CURB INLET MANHOLE
W: (1) STANDARD GRATE
INV IN: 659.72 (18" NW)
INV OUT: 659.72 (18" S)

214 LF 18" CPP @ 0.50%

1A-ST-CI-505
RIM: 668.92
PR. 4'X2' CURB INLET
W: (1) STANDARD GRATE
INV IN: 659.57 (18" N)
INV OUT: 659.07 (24" S)

106 LF 5' x 2' RCB @ 5.14%

1A-ST-MH-044
RIM: 669.04
PRL 84" MH CONNECTION
TO EXISTING RCB
INV IN: 662.87 (24" SW)
INV IN: 662.87 (60" NW)
INV OUT: 662.87 (60" SE)

PROPOSED DROP
CONNECTION TO
EXISTING RCB
19 LF 24" CPP @ 0.50%

29 LF 24" STORM TRENCH @ 0.50%

1A-STRM-12.0

1A-ST-CB-034
RIM: 670.32
INV IN: 667.41 (24" W)
INV OUT: 662.96 (24" NE)

1A-ST-ST-104
RIM: 669.73
INV OUT: 666.73 (4" S)

1A-ST-ST-103
RIM: 669.56
INV OUT: 666.58 (4" S)

3 LF 4" PVC @ 0.50%
14 LF 4" PVC @ 0.50%

1A-ST-CB-028
RIM: 670.03
INV IN: 666.50 (4" NW)
INV OUT: 666.33 (6" E)
19 LF 6" HDPE @ 0.50%

3 LF 4" PVC @ 1.99%
14 LF 4" PVC @ 1.99%

1A-STRM-16.1

1A-ST-CB-029
RIM: 669.45
INV IN: 666.24 (6" W)
INV IN: 666.40 (4" NW)
INV OUT: 666.24 (6" E)

1A-ST-MES-001
RIM: 666.74
INV IN: 666.18 (6" W)

CONCRETE SLOPE
WALL PER DETAIL ON
SHEET 1A-C-3503

12 LF 6" HDPE @ 0.50%

1A-STRM-16.0

141 LF 24" CPP @ 0.50%

LEGEND

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KEY NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

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04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3319

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3328

MATCHLINE SEE SHEET 1A-C-3319

MATCHLINE SEE SHEET 1A-C-3321

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3301 STORM SEWER PLAN 4/9/2026 6:20 PM

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3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
4. CONNECT TO ELECTRIC TRENCH PER DETAIL SHEET 1A-C-7510. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
5. ROOF DRAIN CONNECTION TO MAIN VIA WYE AND 1/8 BEND PER DETAIL SHEET 1A-C-3503.
6. CONNECT ACO POWER DRAIN TO NYLOPLAST CATCH BASIN.
7. CONTAINMENT ISOLATION VALVE WITH EXTENDED BONNET HANDWHEEL OPERATOR, PIPE UPSTREAM OF VALVE SHALL BE PVC AND SEALED AND TESTED TO FULLY CONTAIN A SPILL - SEE DETAIL SHEET 1A-C-3503.
8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

1. SEE SHEETS 1A-C-3500, 1A-C-3501, 1A-C-3502, AND 1A-C-3503 FOR STORM INLETS (AI) (CI), AND JUNCTION STRUCTURE (MH) (CB) DETAILS.
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N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

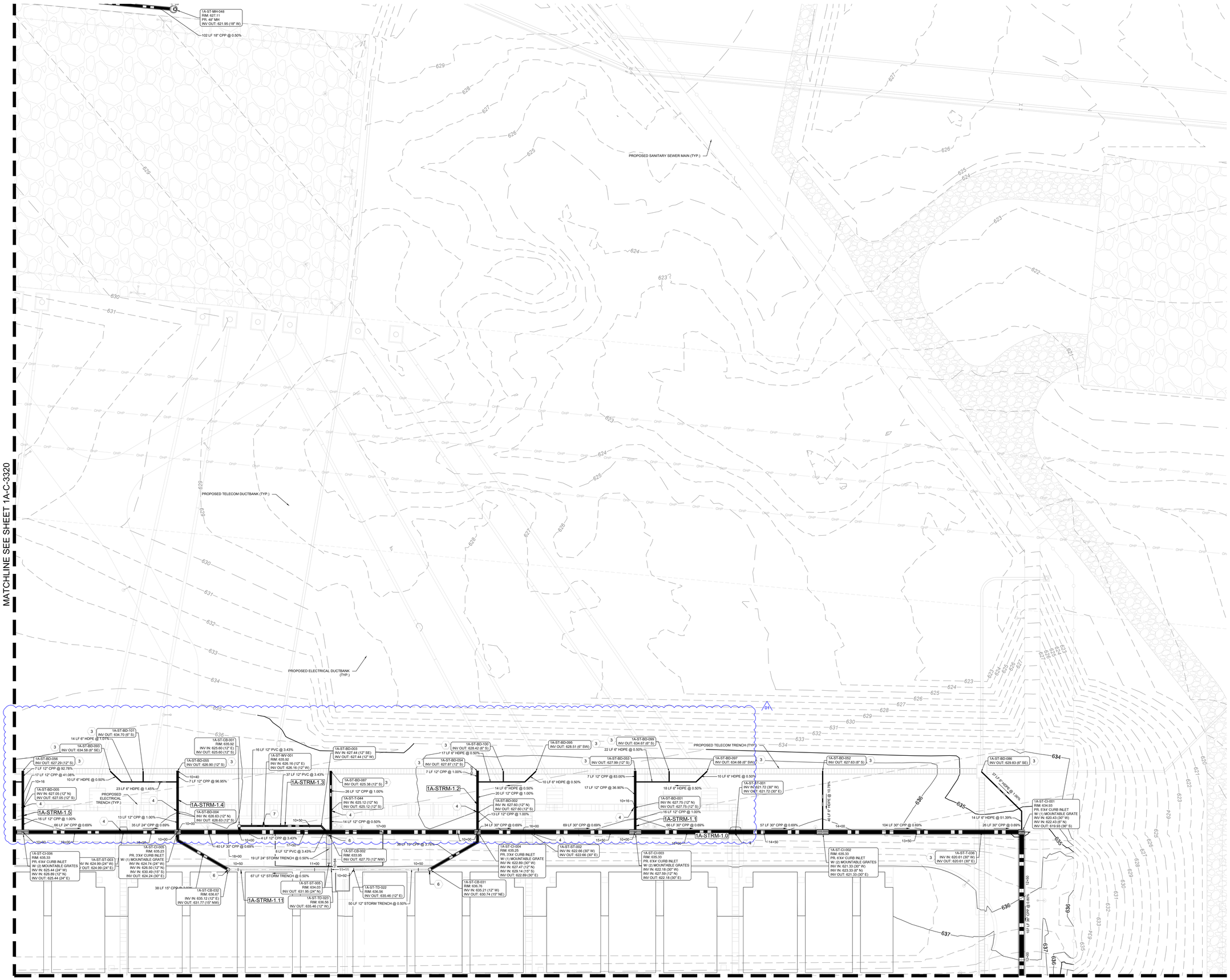
PROJ. NO.:10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3320

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

1. INSTALL 12" ACO S300K POWEDRAIN PER DETAIL SHEET 1A-C-3502.
2. 43 LF 6" TRENCH DRAIN @ 0.50%.
3. CONNECT TO TELECOM TRENCH PER DETAIL SHEET 1A-C-7502. CONTRACTOR TO MAINTAIN A MINIMUM 0.5% SLOPE.
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6. CONNECT ACO POWER DRAIN TO NYLOPLAST CATCH BASIN.
7. CONTAINMENT ISOLATION VALVE WITH EXTENDED BONNET HANDWHEEL OPERATOR, PIPE UPSTREAM OF VALVE SHALL BE PVC AND SEALED AND TESTED TO FULLY CONTAIN A SPILL - SEE DETAIL SHEET 1A-C-3503.
8. CONDENSATE CONVEYANCE FOR BARD A/C UNITS - MECHANICAL CONTRACTOR TO ROUTE CONDENSATE LINES TO NYLOPLAST DRAIN BASIN - SEE DETAIL SHEET 1A-C-3502

NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

REGISTERED PROFESSIONAL ENGINEER — DEVIN RANDALL LEWIS — OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

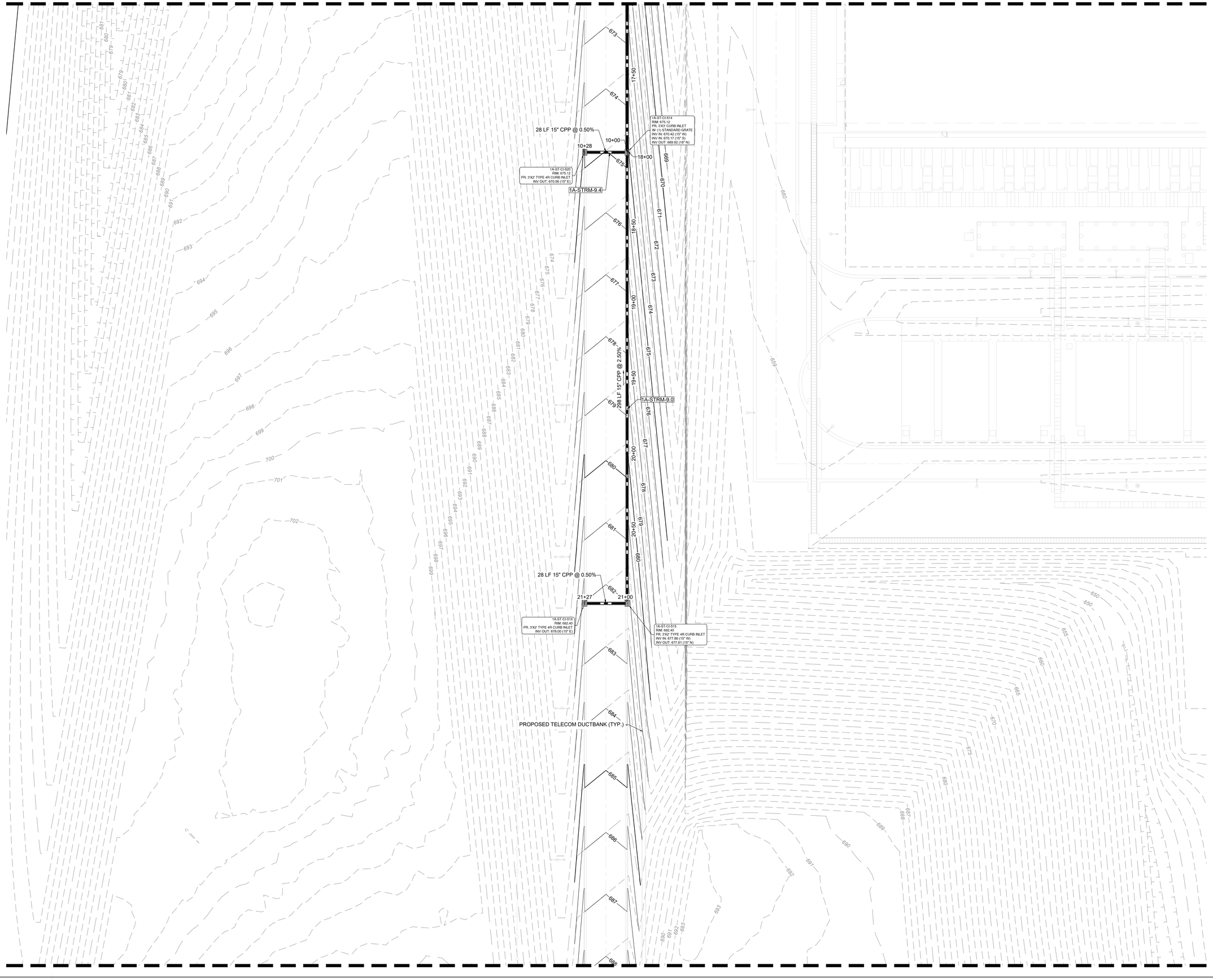
STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3321

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3335



LEGEND

- HDPE
- CPP
- MANHOLE
- JUNCTION BOX
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN

KEY NOTES

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NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

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OMAHA, NE 68106
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3327

PAPER SIZE: E (36"x48")
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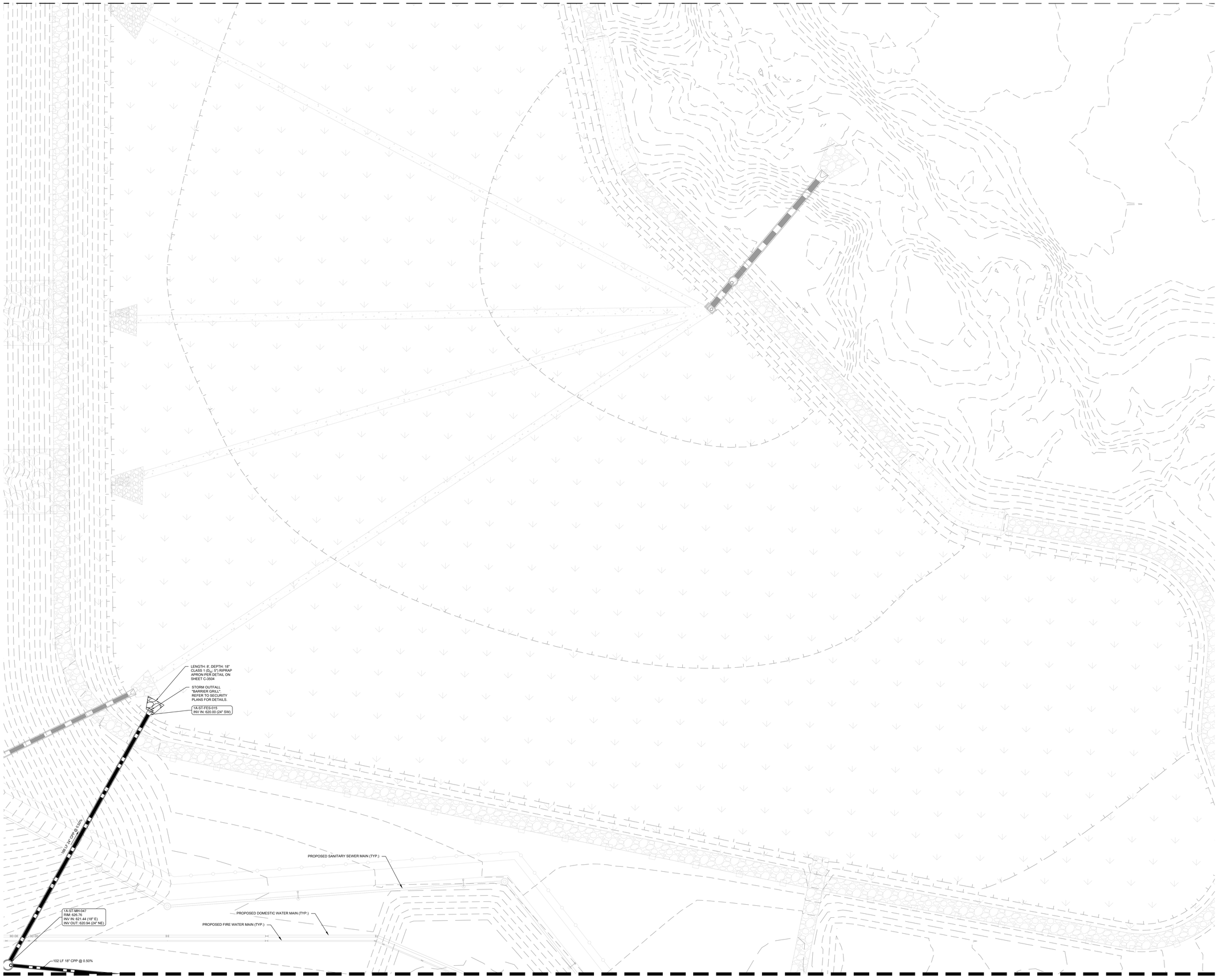

LEGEND

- HDPE
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- CONTAINMENT ISOLATION VALVE
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1917 SOUTH 67th STREET
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

REGISTERED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

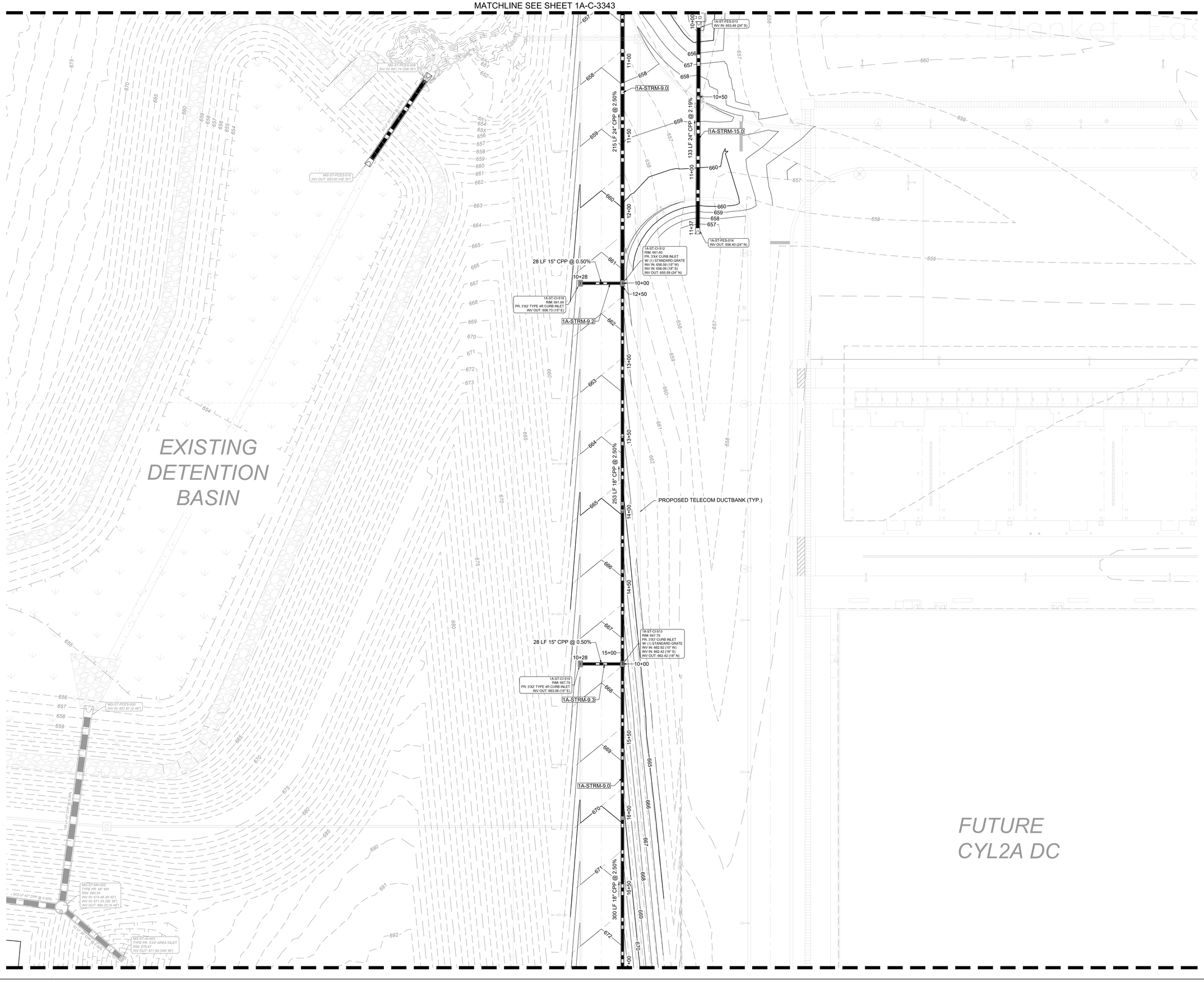
STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3329

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-3343



LEGEND

- HDPE
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NOTES

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1917 SOUTH 67th STREET
OMAHA, NE 68106
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

STORM SEWER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3335

PAPER SIZE: E (36"x48")
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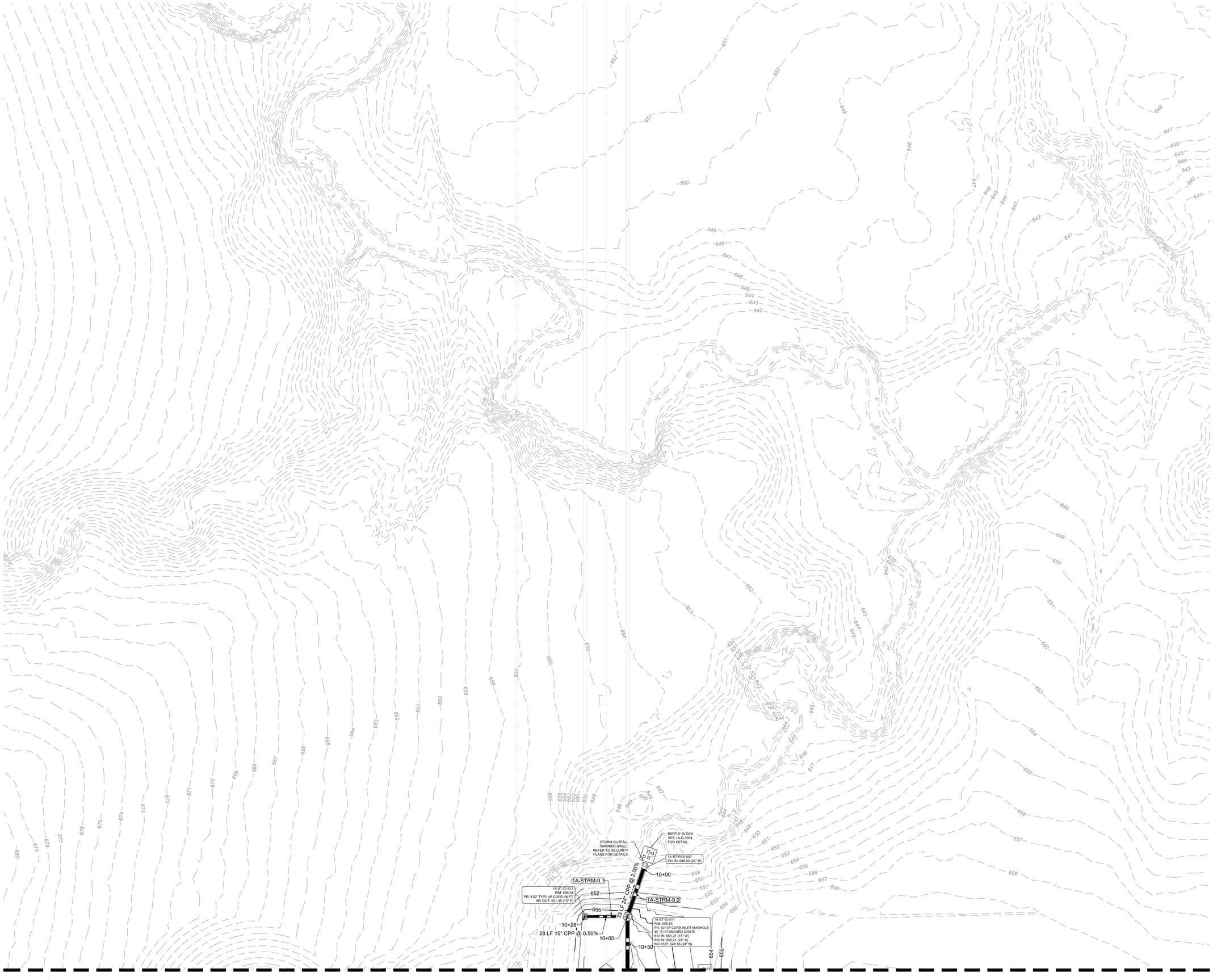

LEGEND

- HDPE
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- TRENCH DRAIN

KEY NOTES

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NOTES

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HDR, INC.
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

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NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3343

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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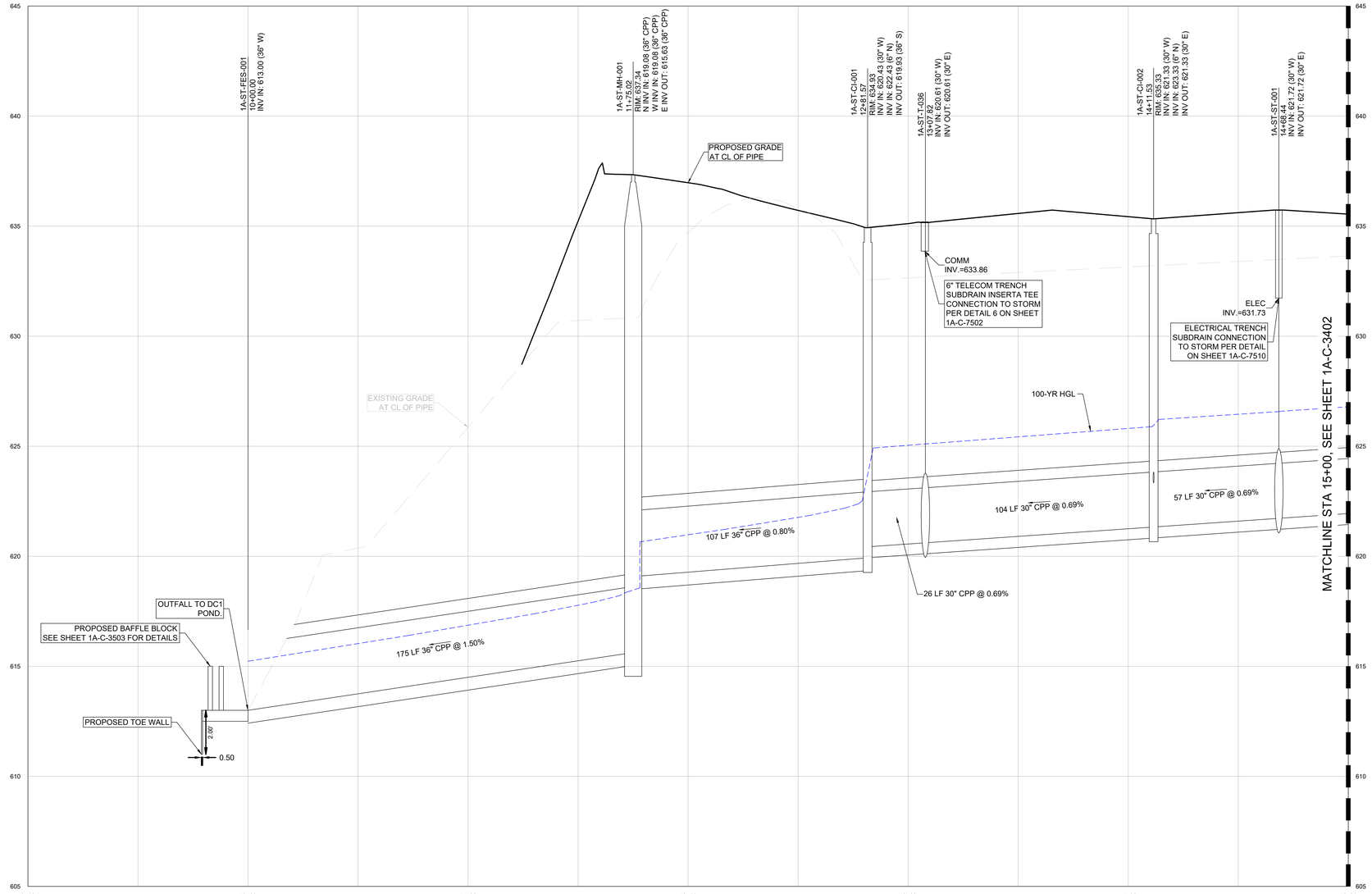

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4'
2'
1'
0'
0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

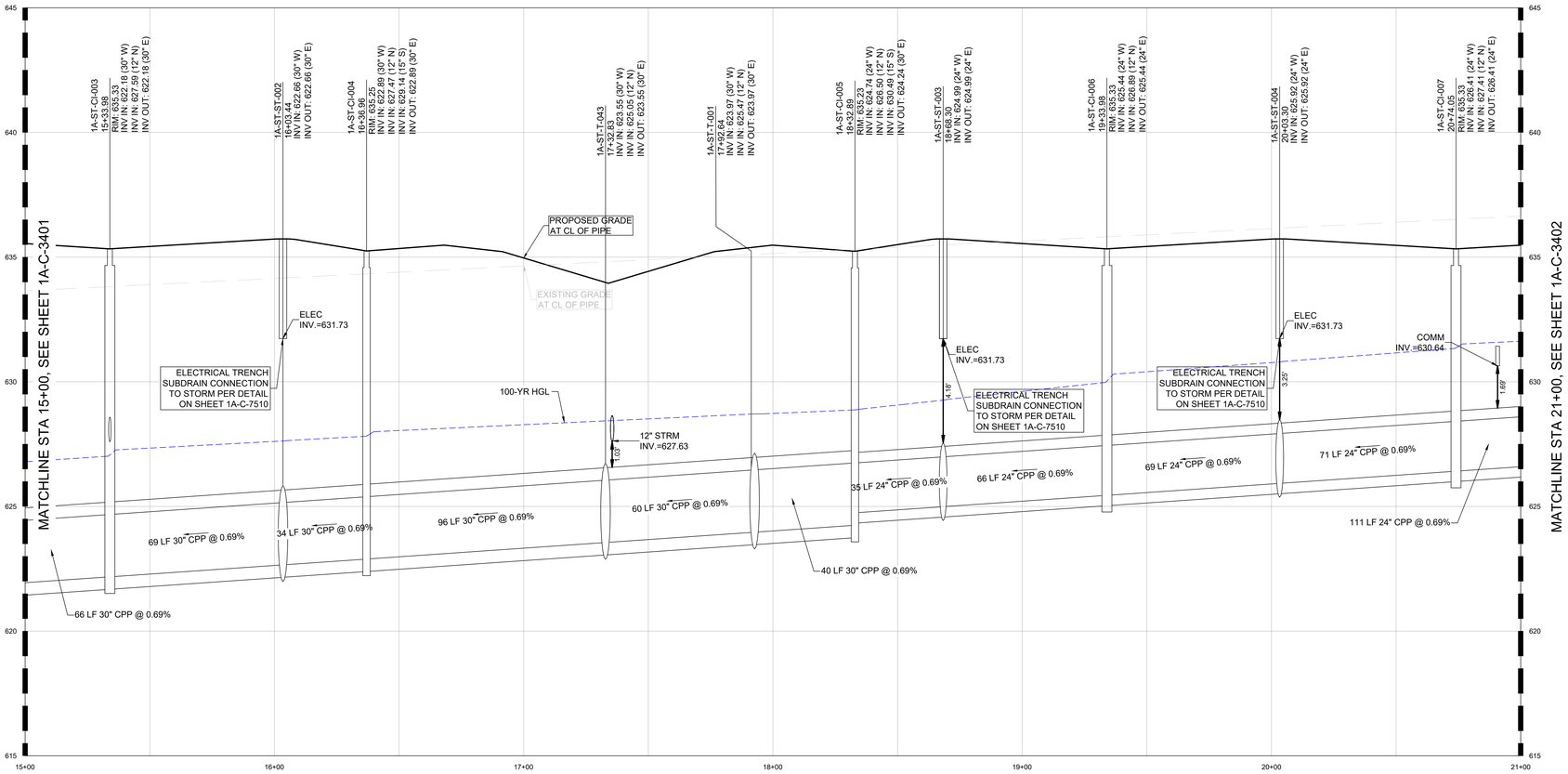
PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3401

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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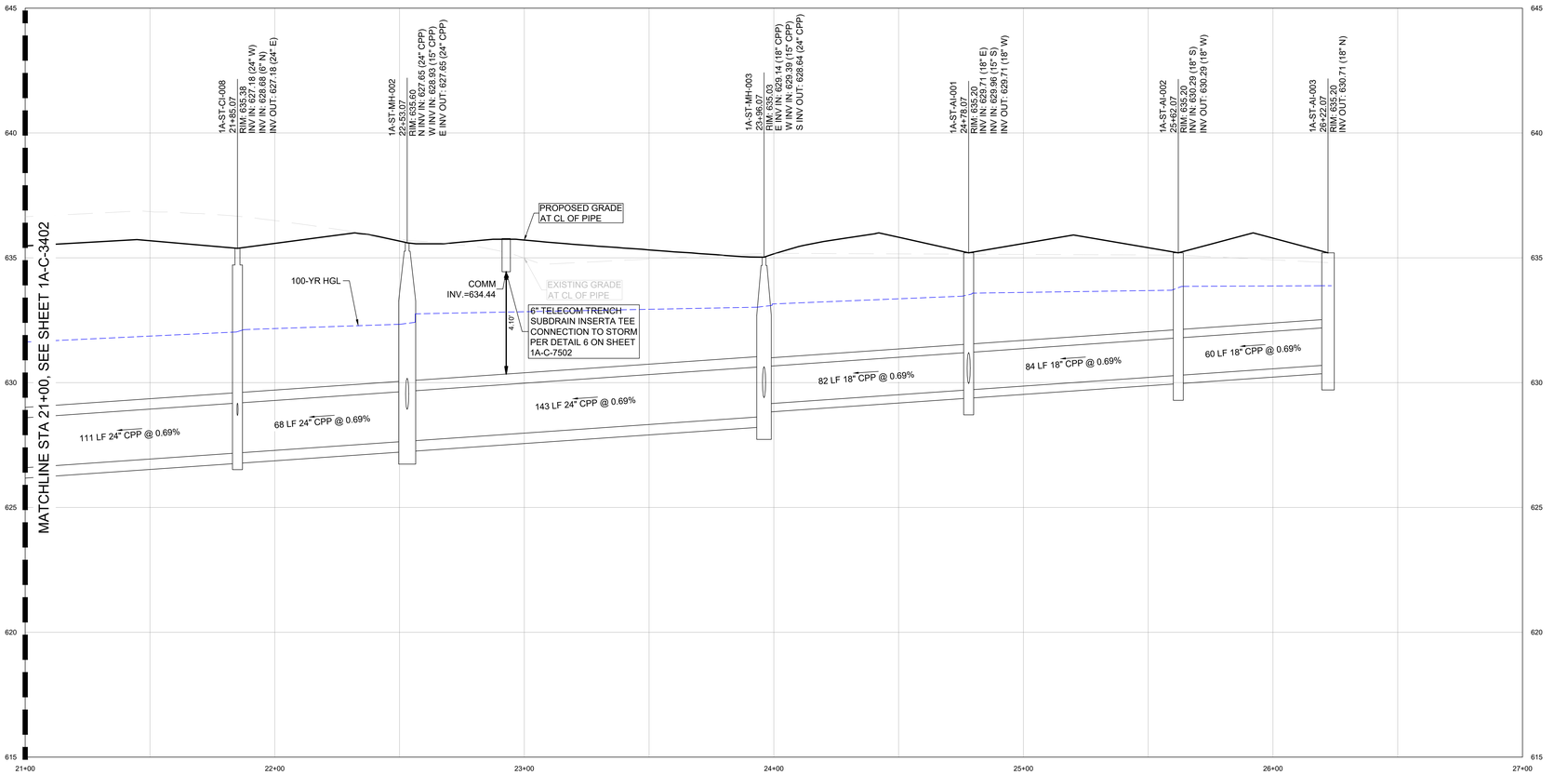

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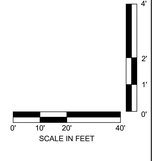

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3402

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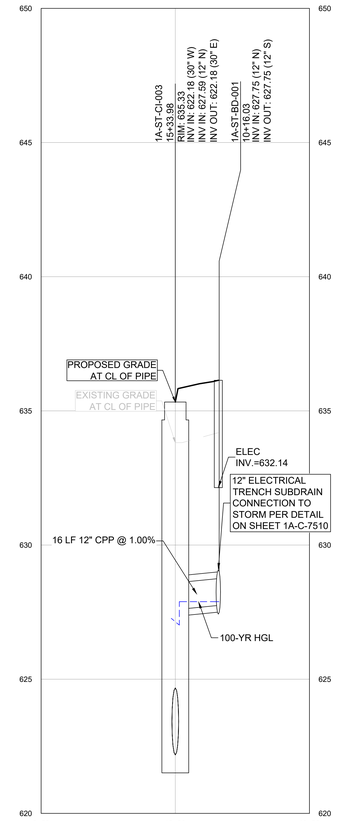

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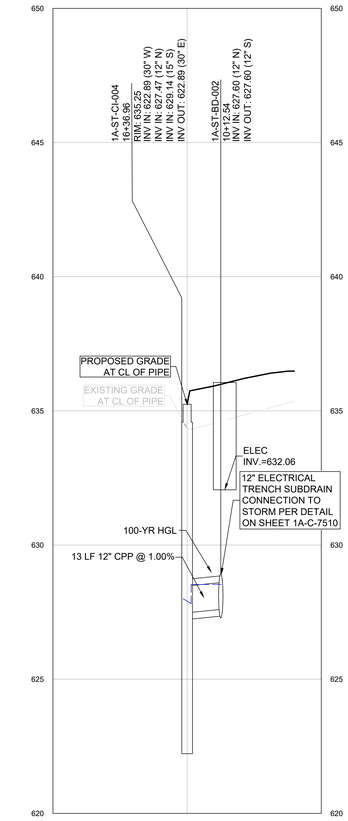

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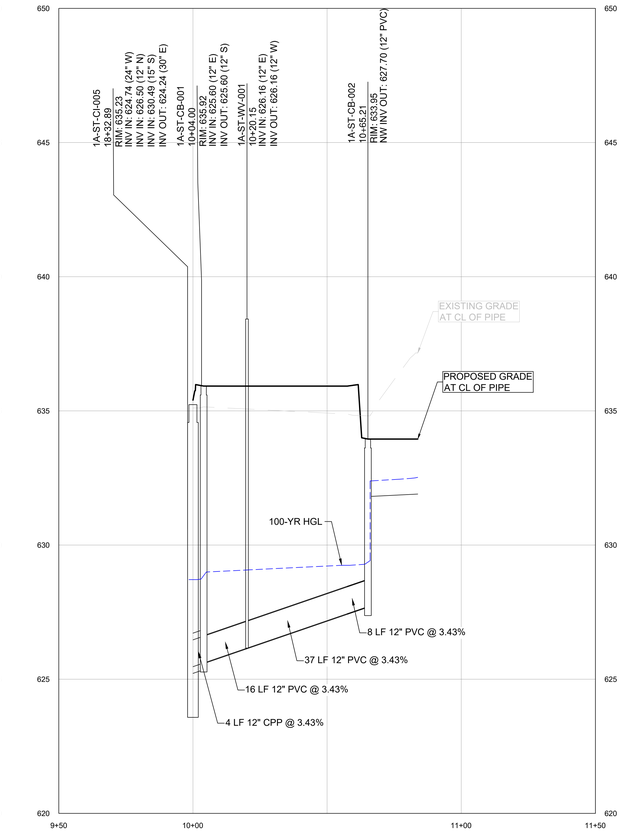

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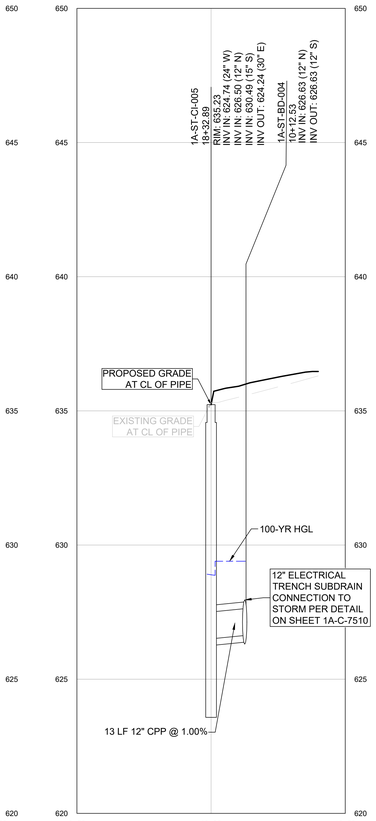

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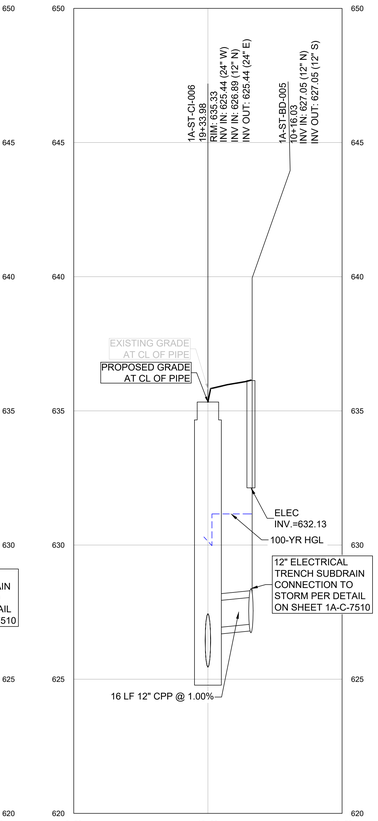

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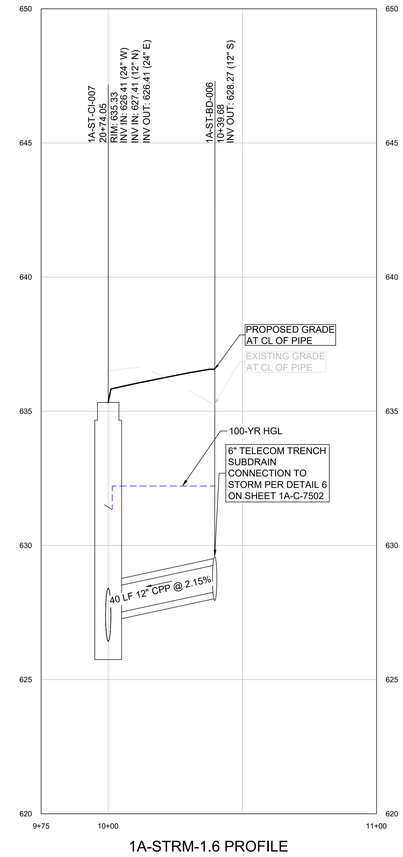

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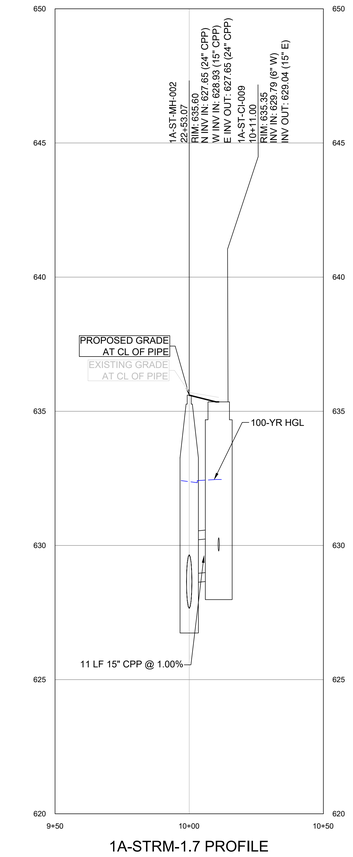

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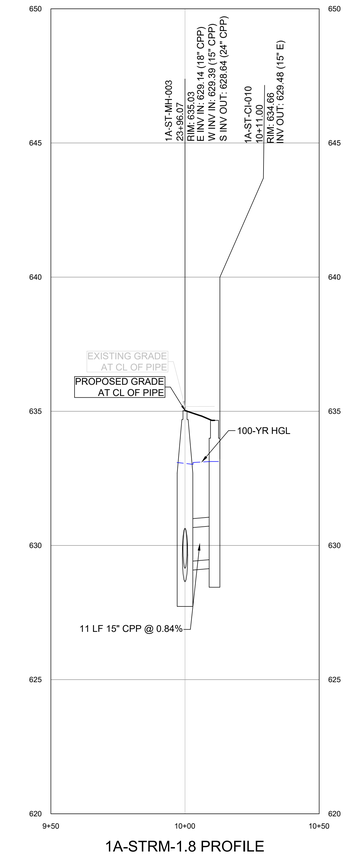

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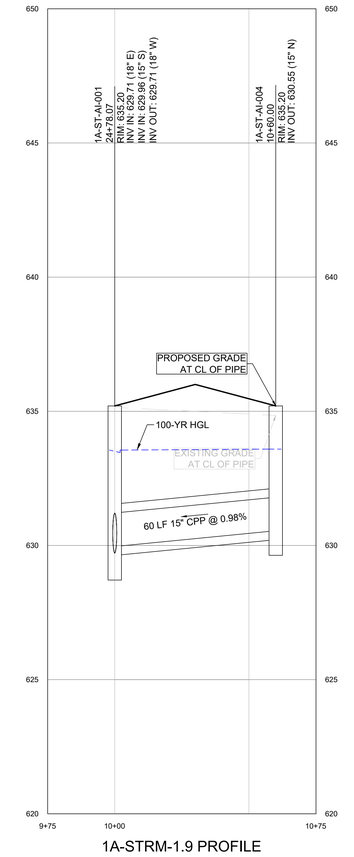

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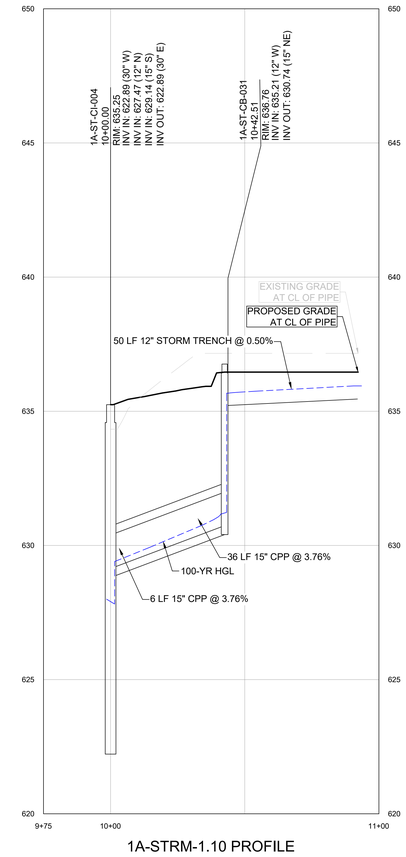

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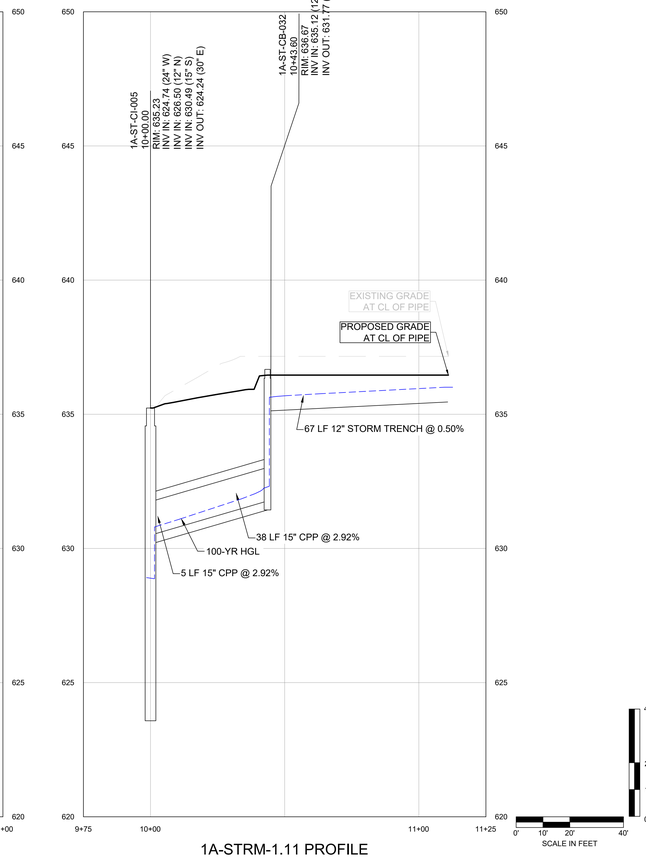

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LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3403

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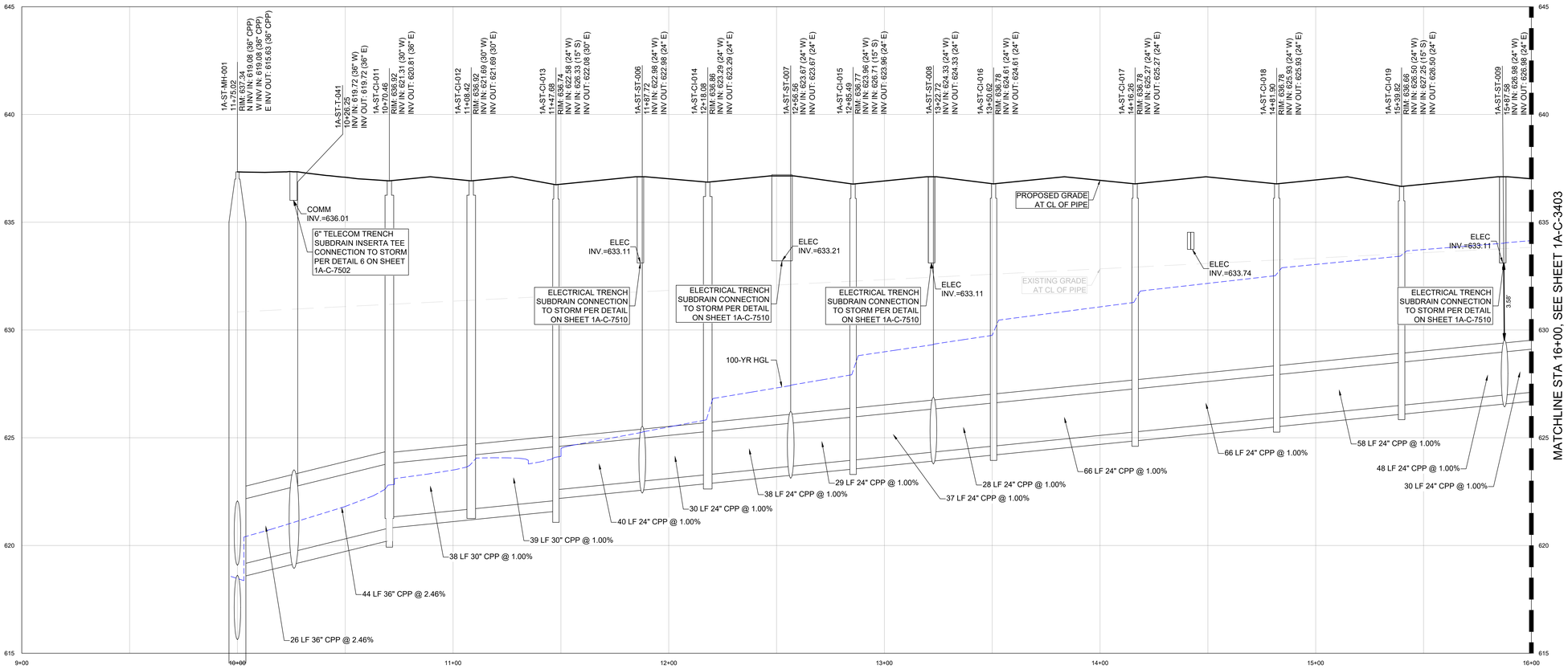

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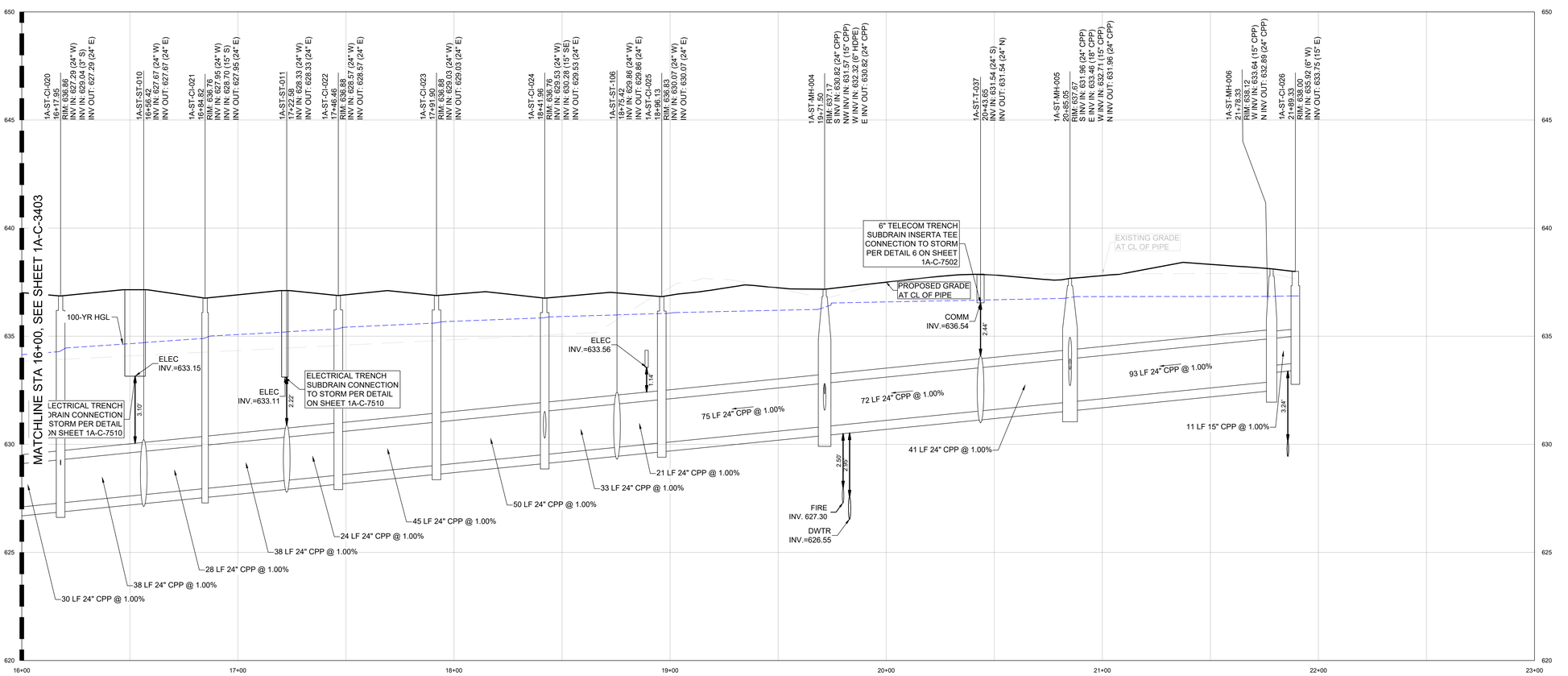

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DEVIN RANDALL HOLT
OKLAHOMA
04/09/2026

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DRAWN: JLF

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PROJECT ADDRESS:
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PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3404

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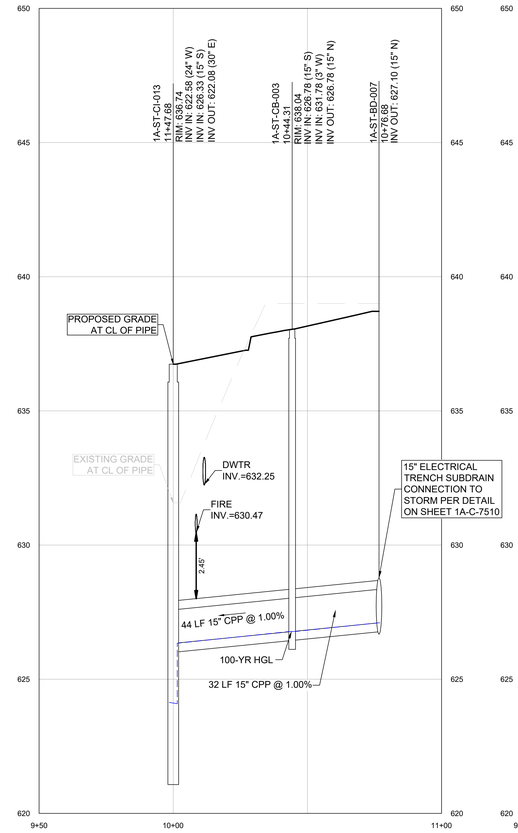

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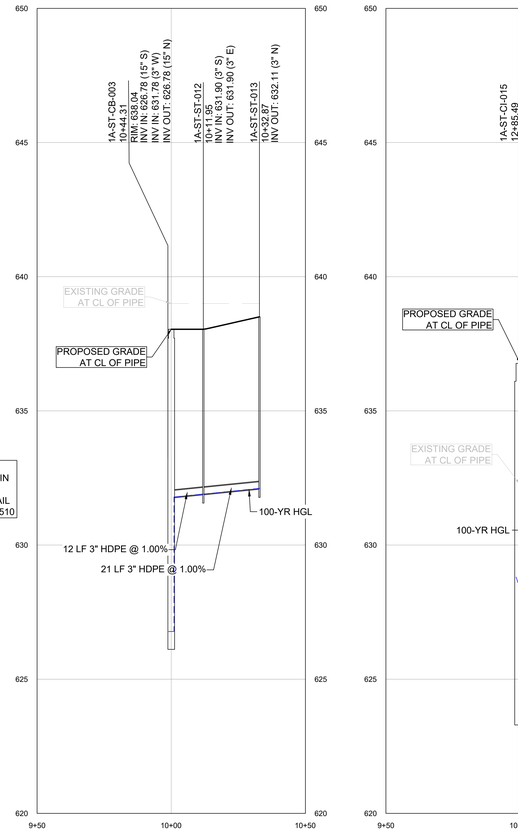

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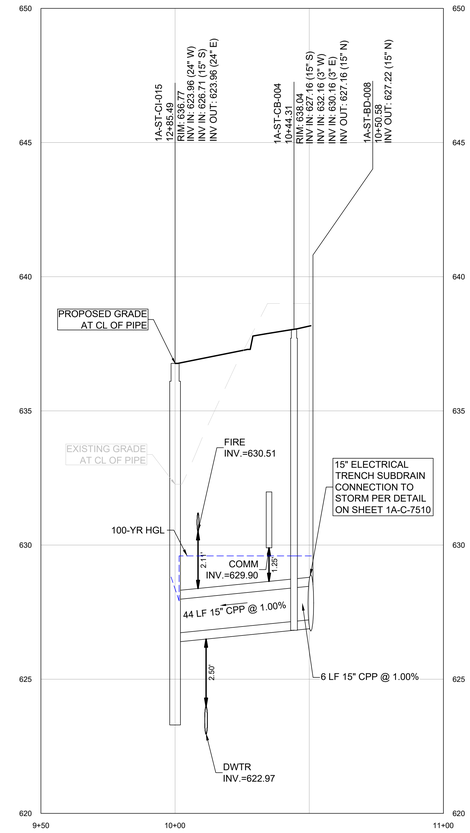

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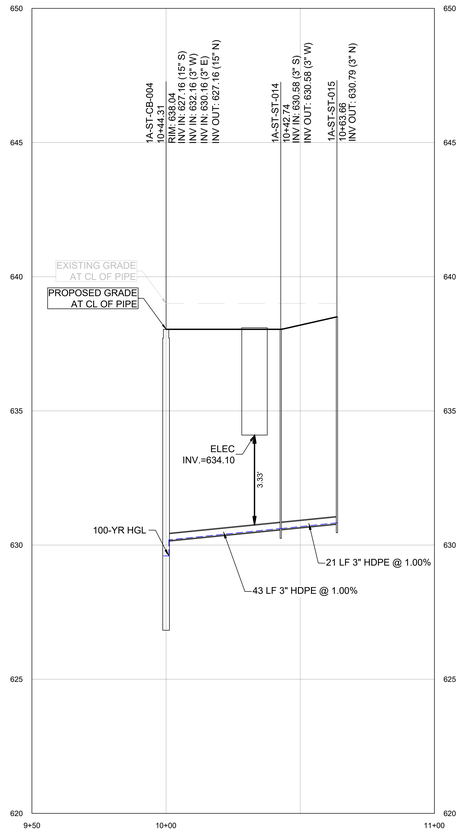

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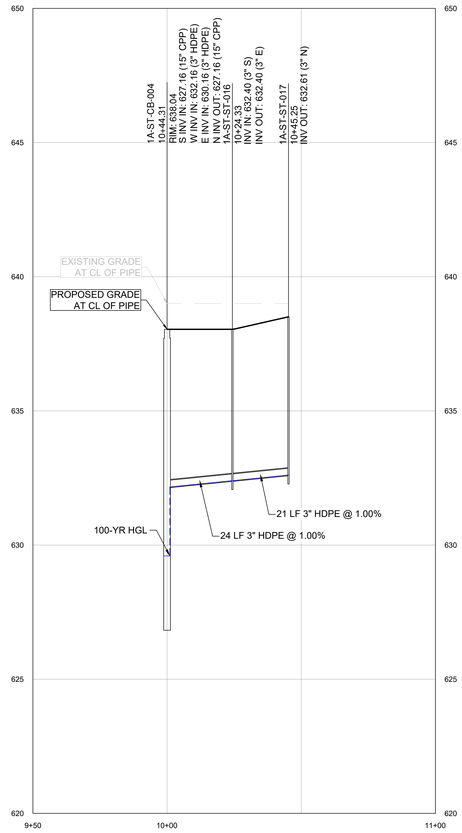

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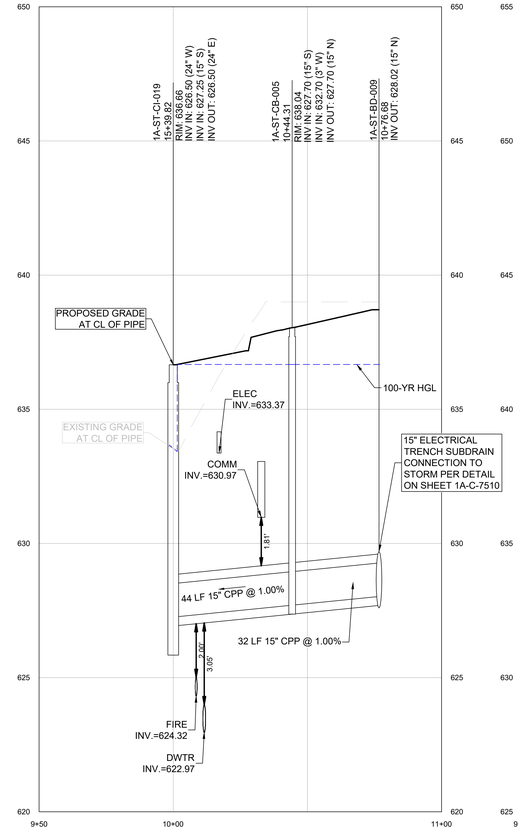

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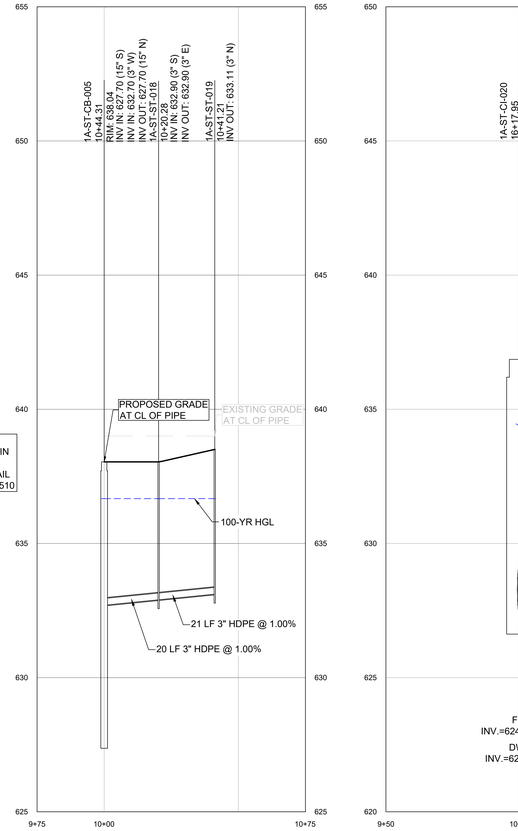

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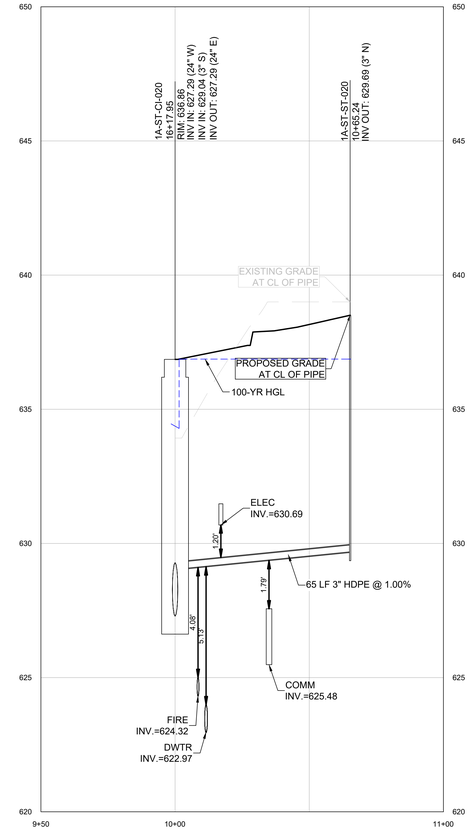

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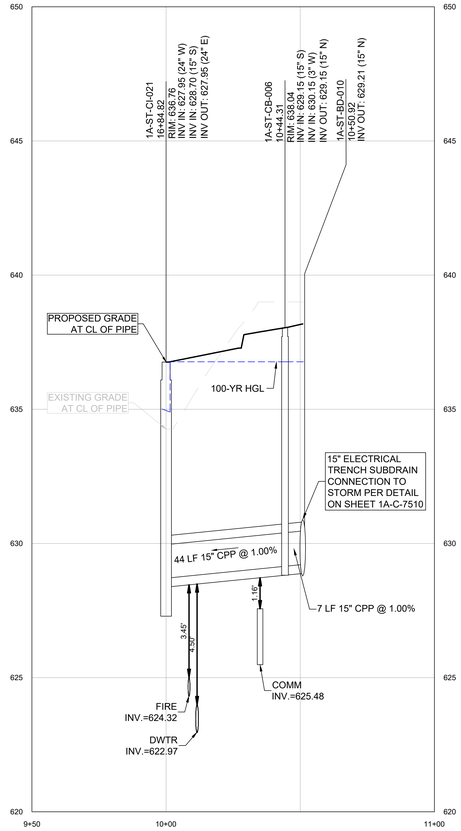

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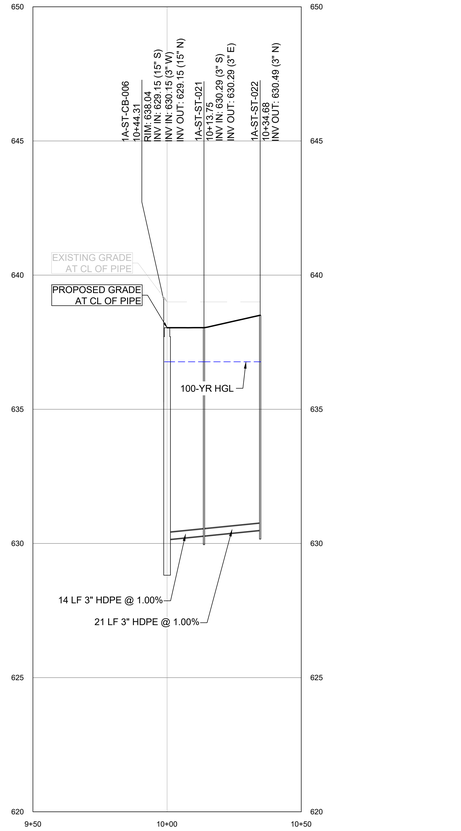

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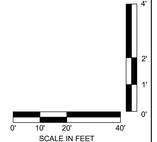

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434535

STORM SEWER PROFILES
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3405
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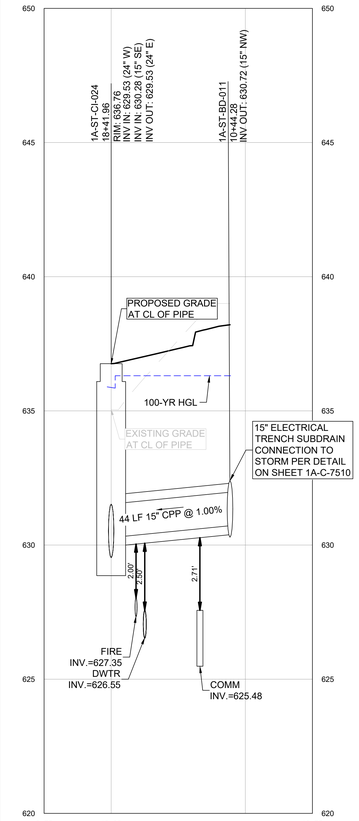

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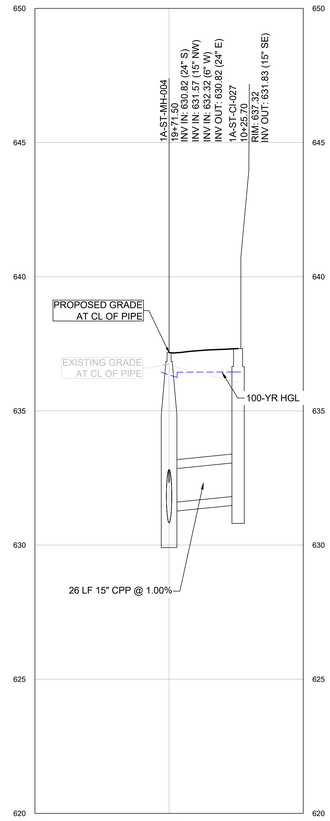

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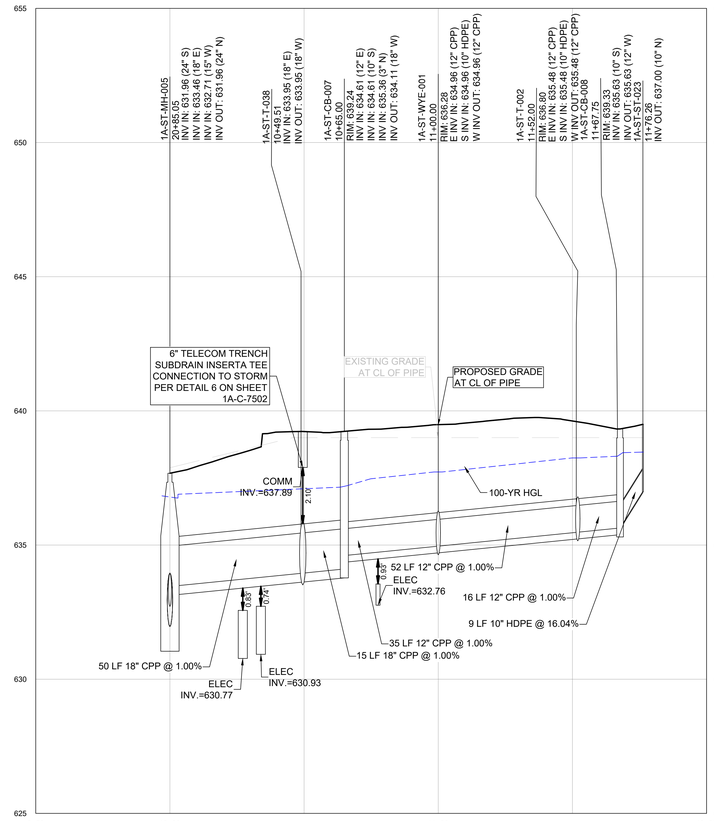

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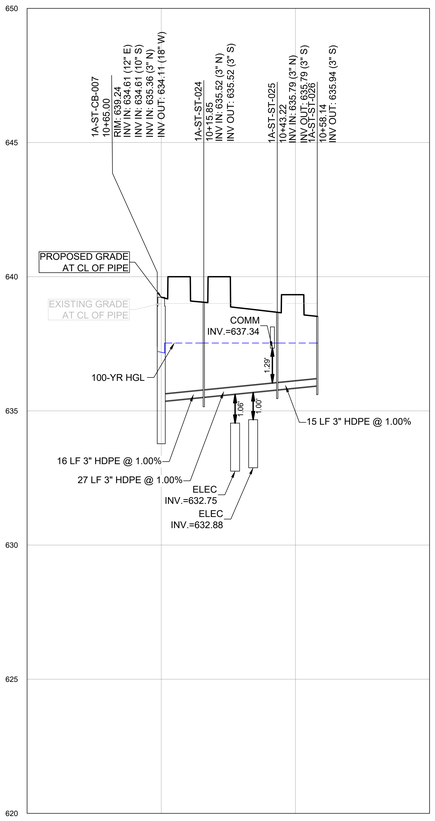

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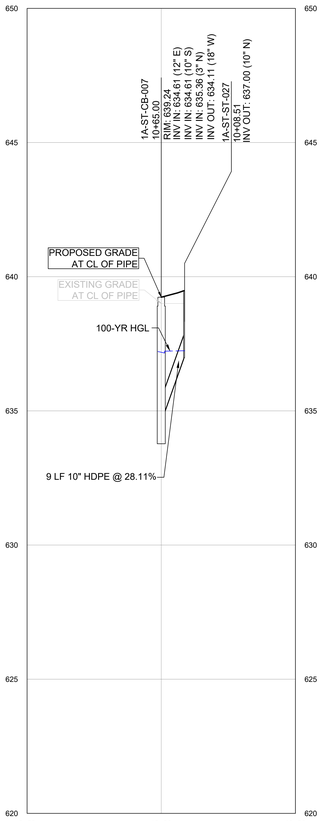

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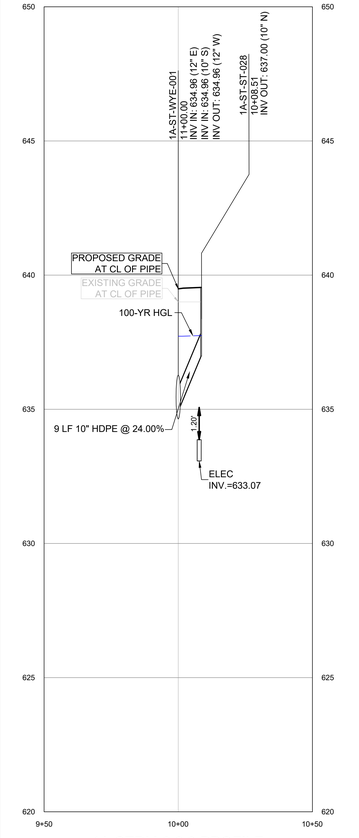

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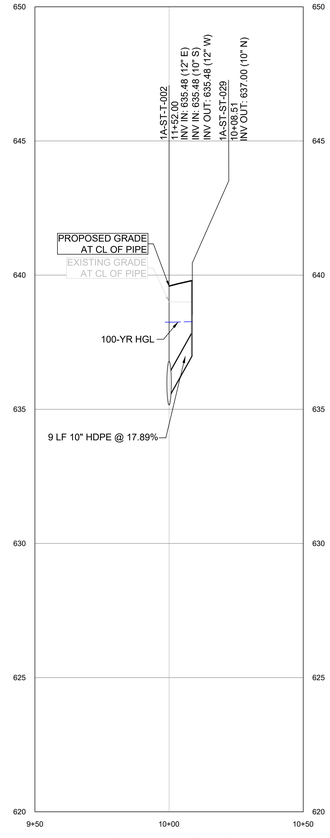

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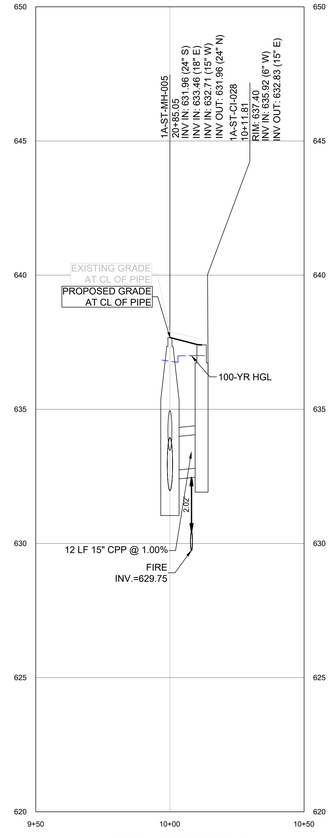

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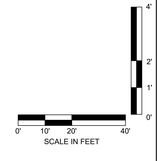

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL HOLT
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3406

PAPER SIZE: E (36"x48")
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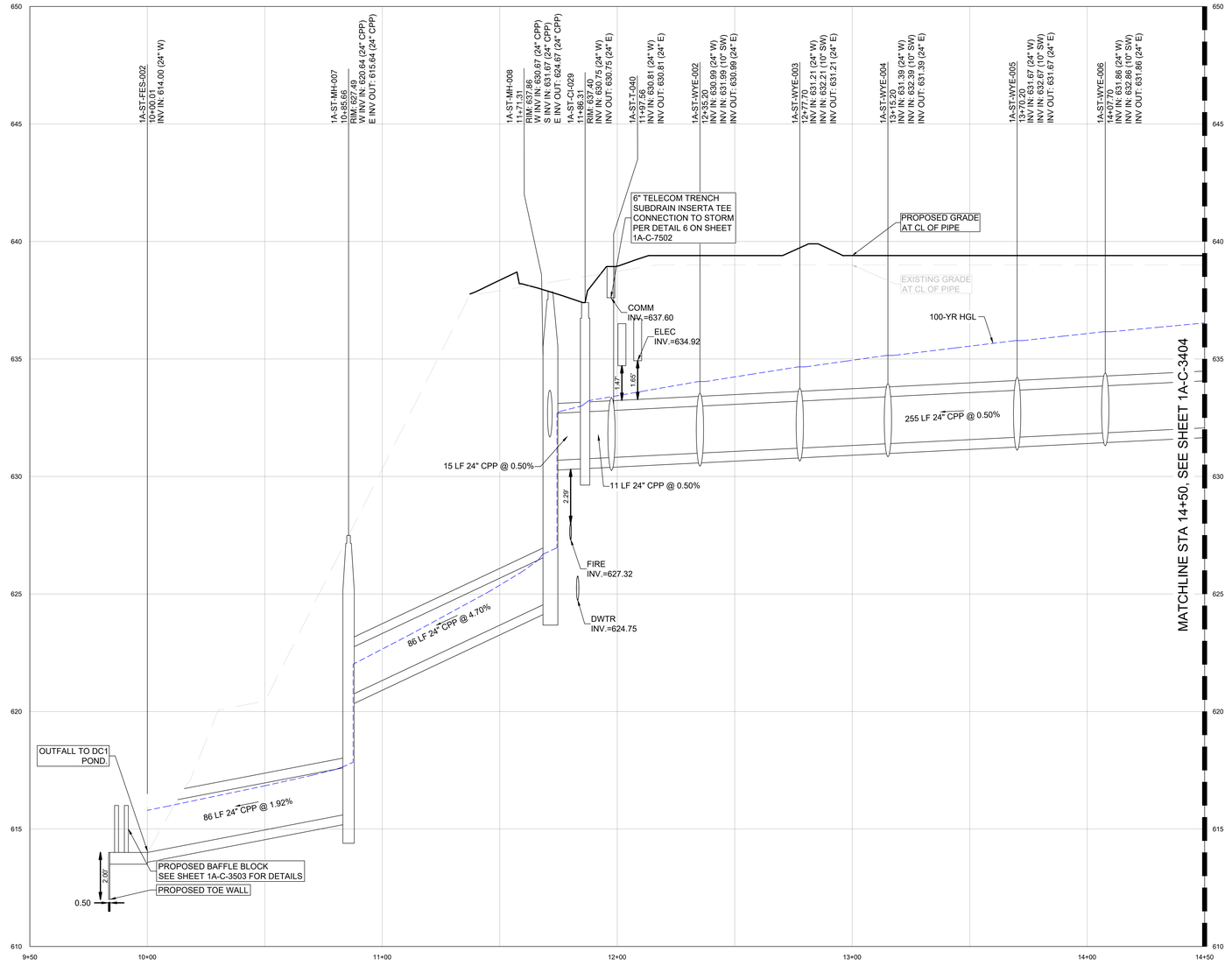

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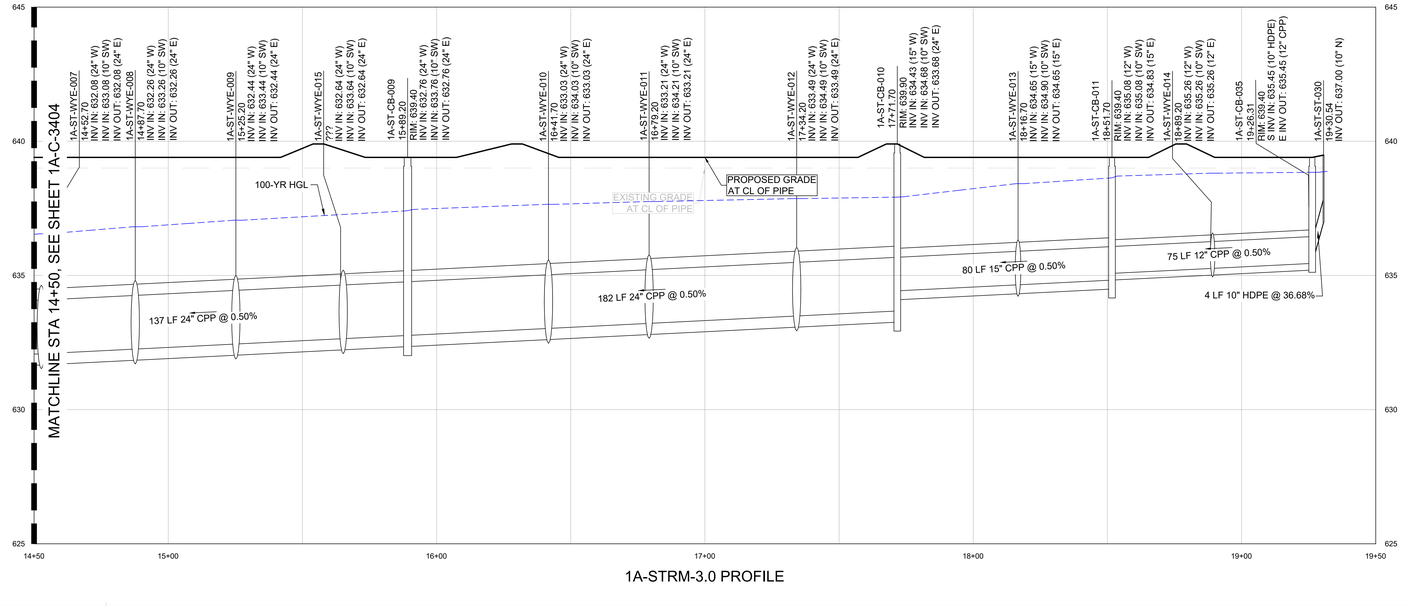

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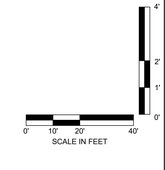

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04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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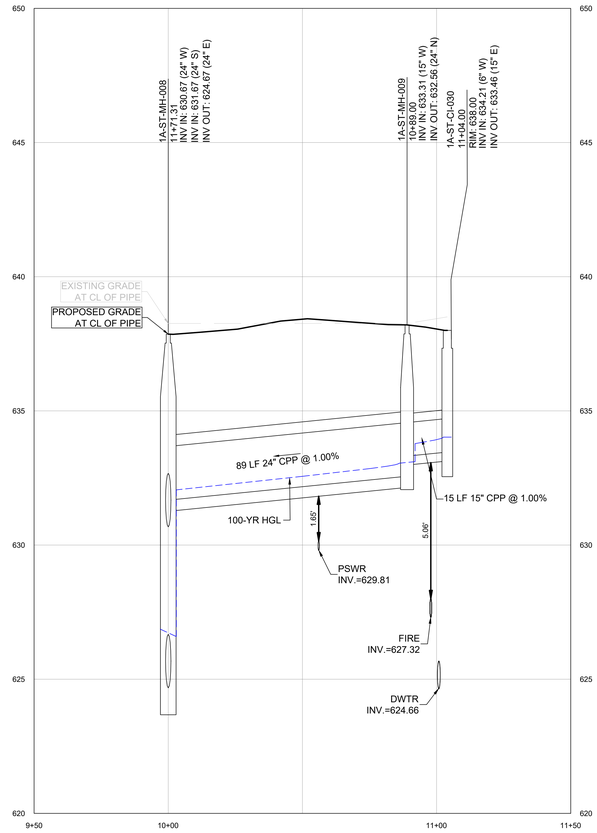

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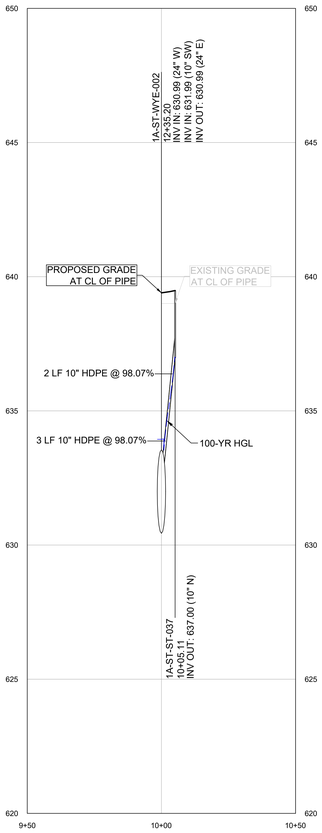

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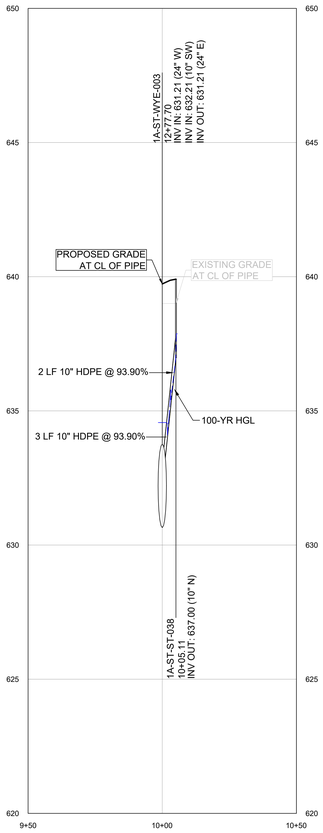

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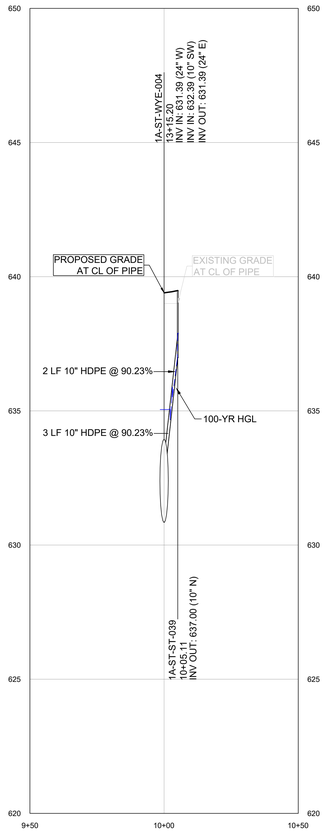

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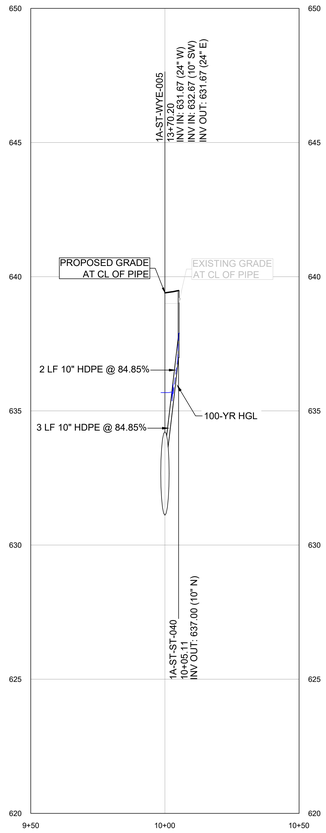

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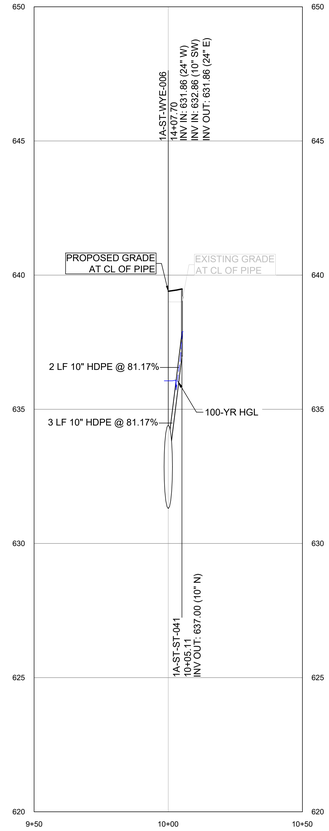

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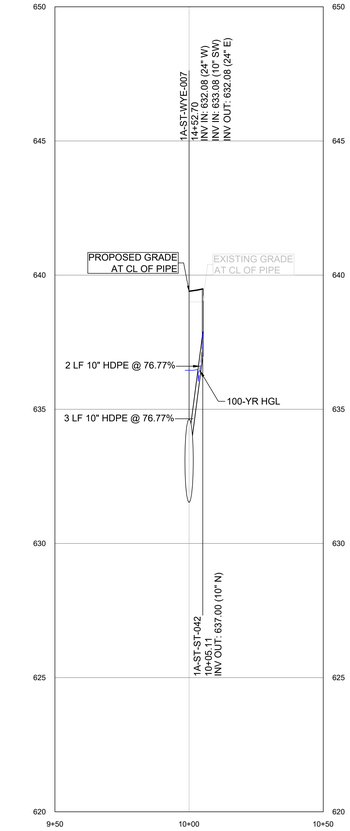

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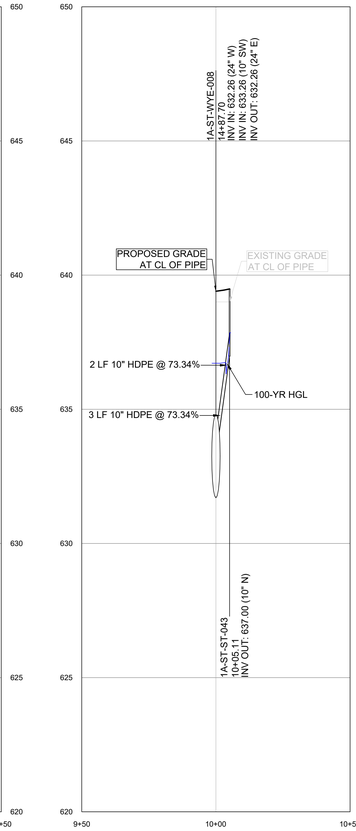

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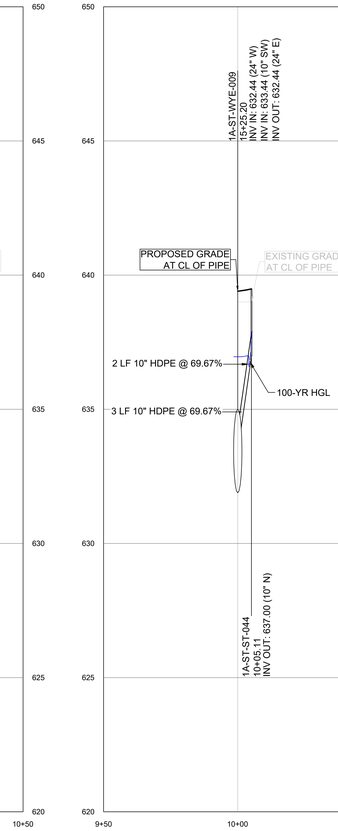

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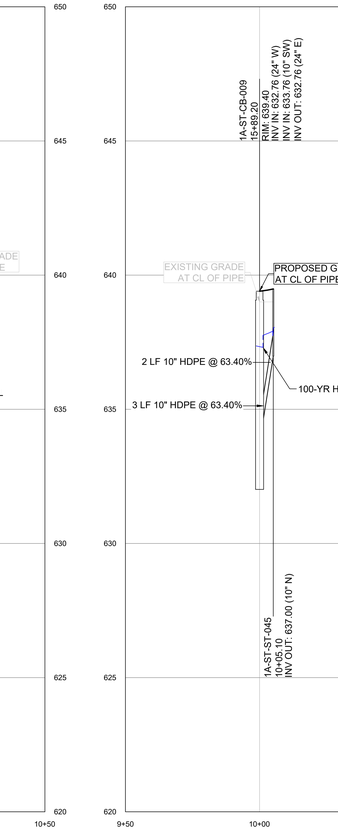

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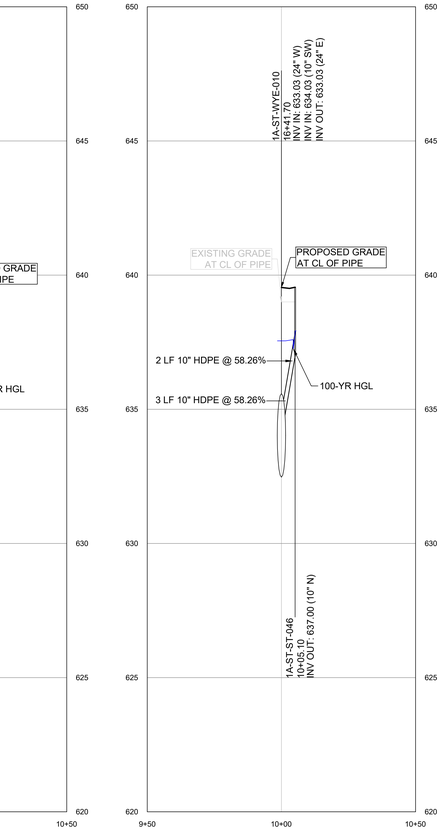

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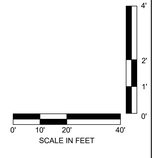

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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

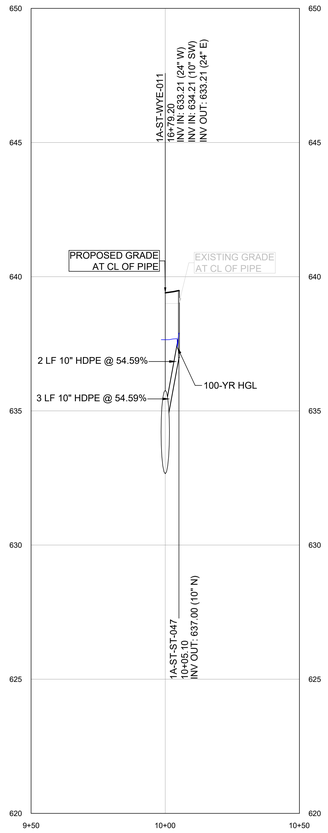
PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3408

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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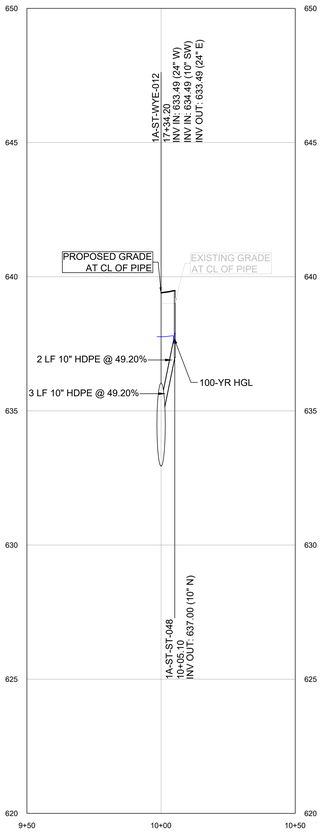

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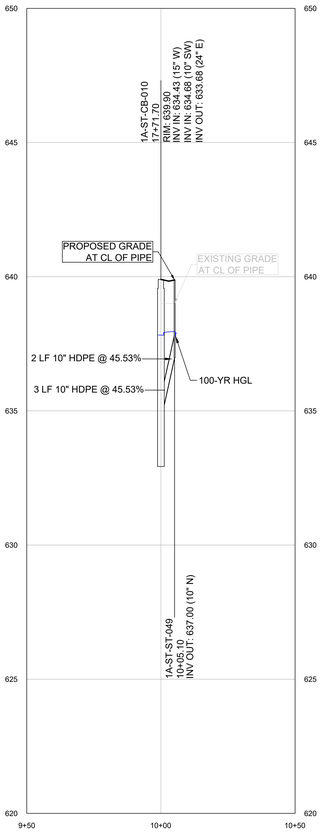

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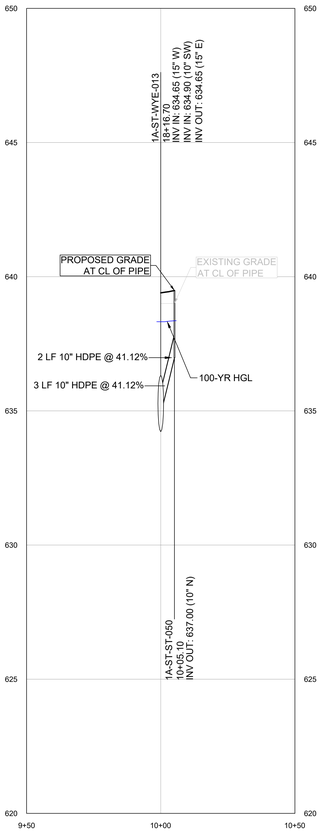

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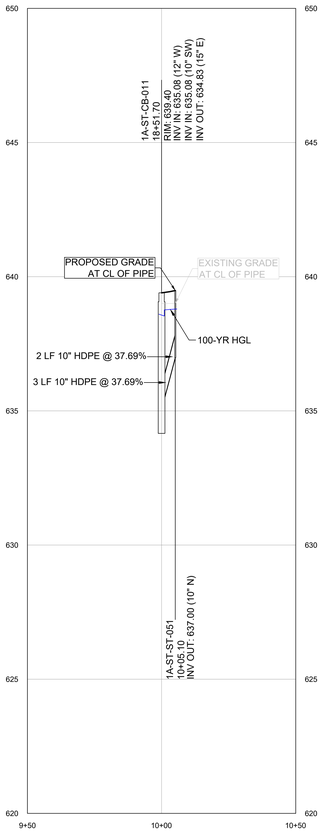

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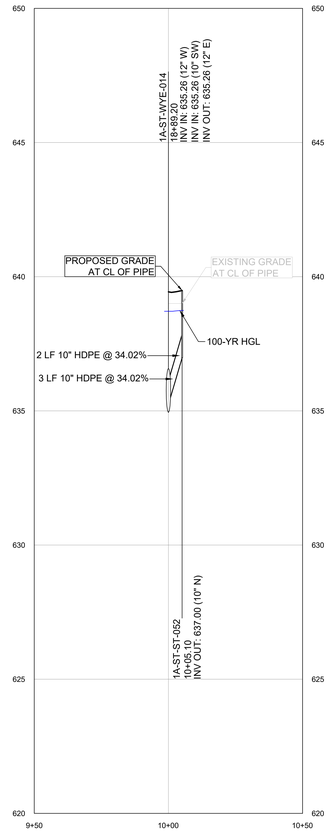

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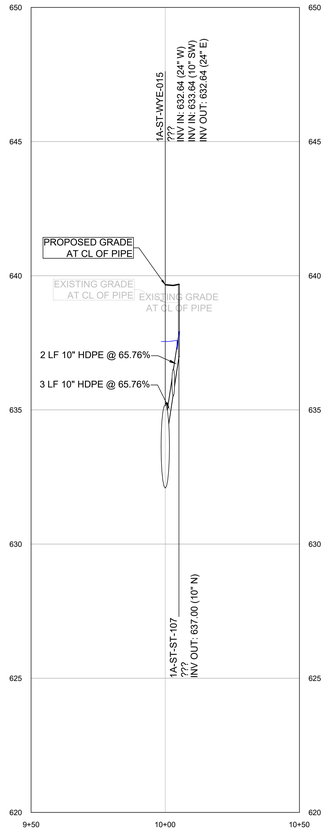

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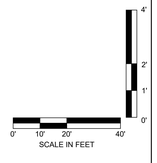

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04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

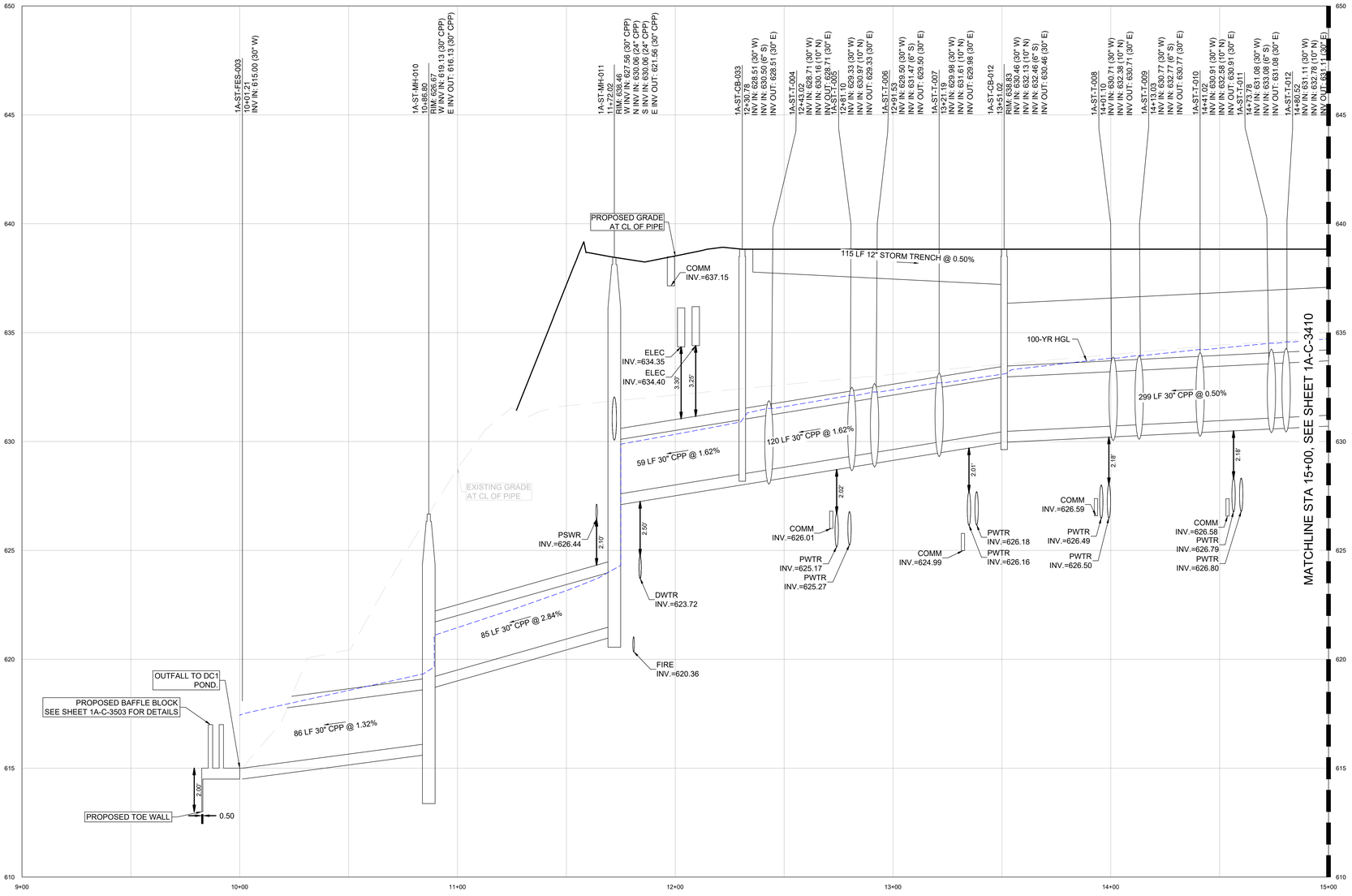
PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3409

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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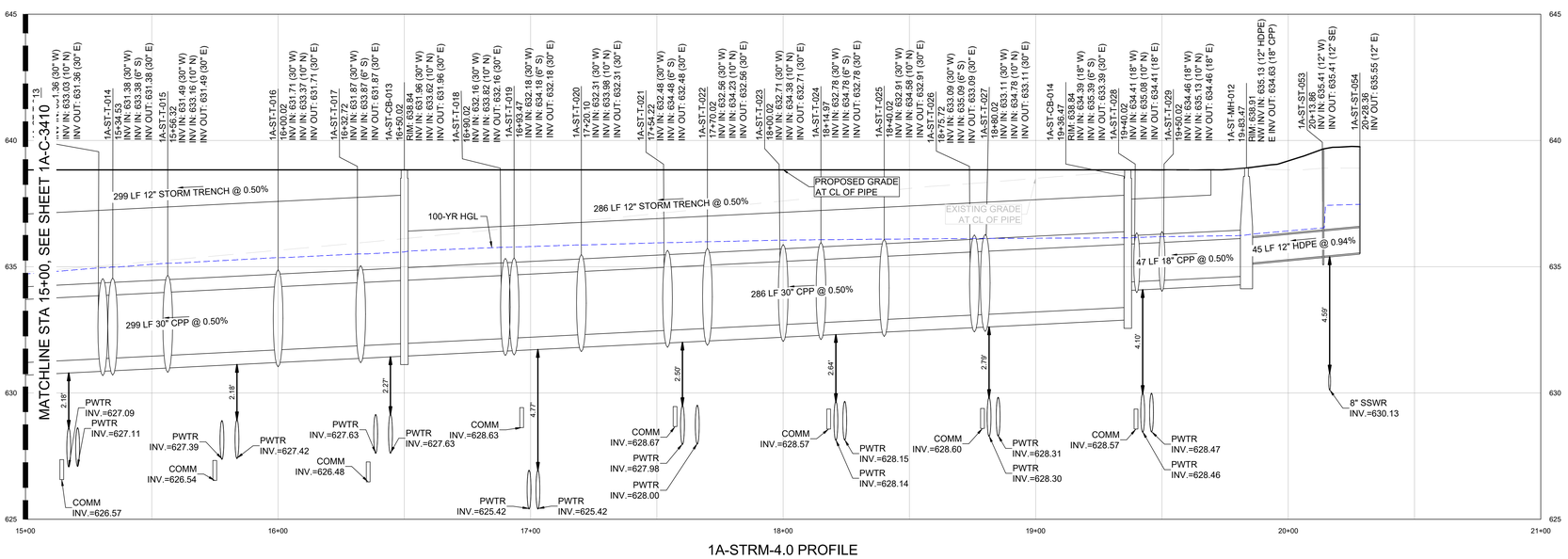

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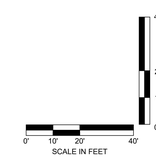

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

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REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3410

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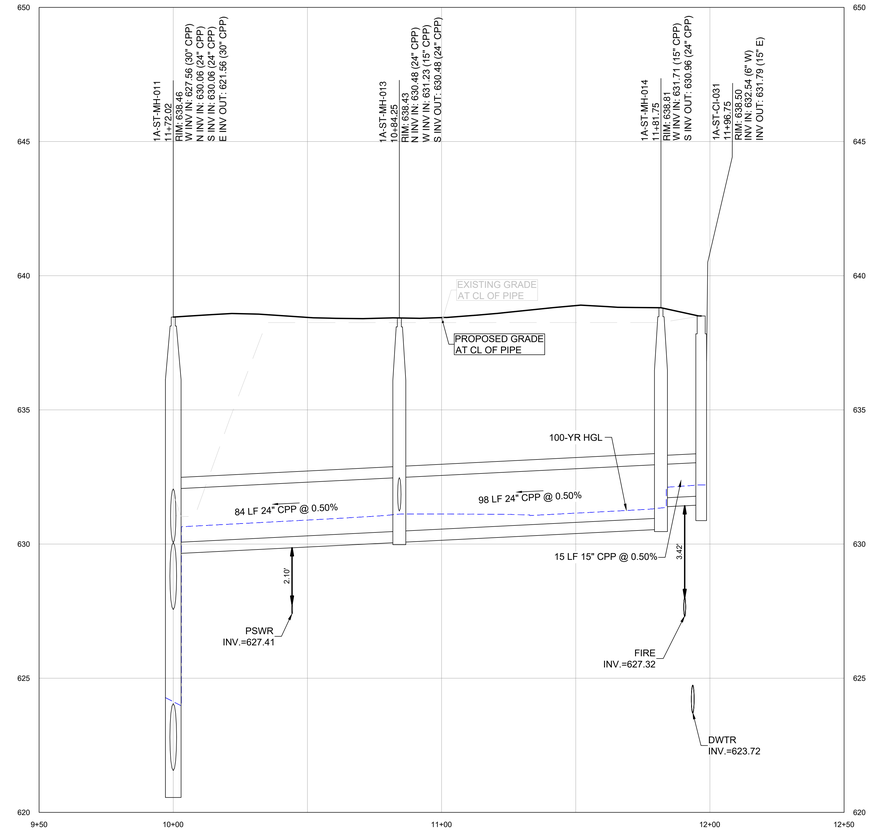

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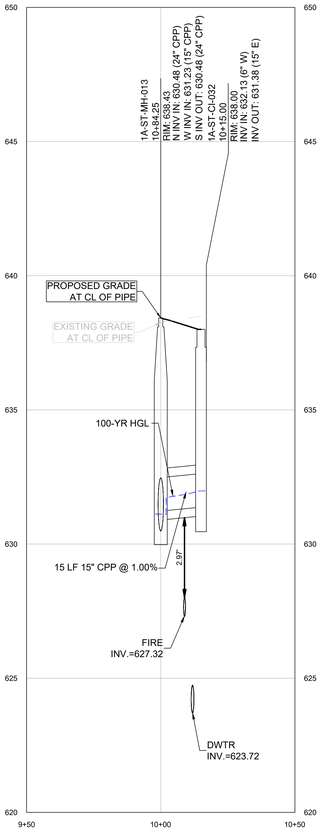

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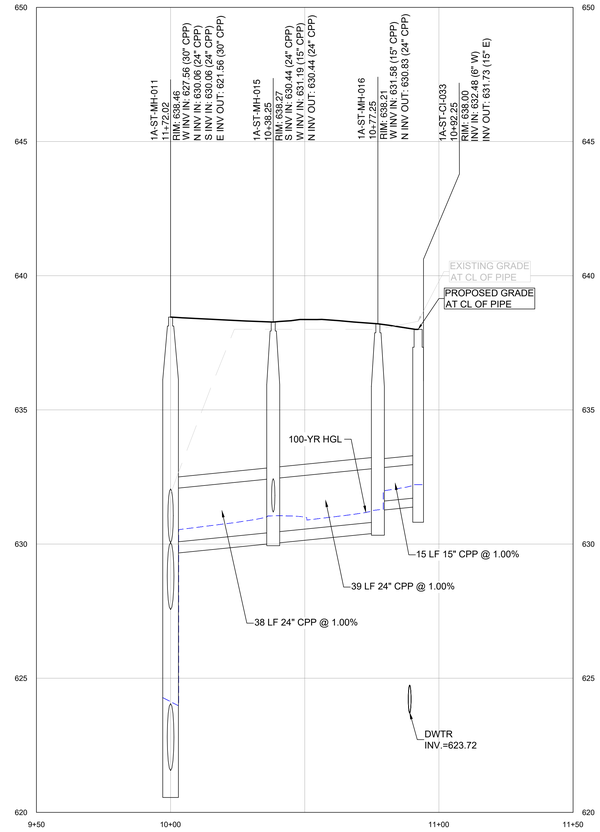

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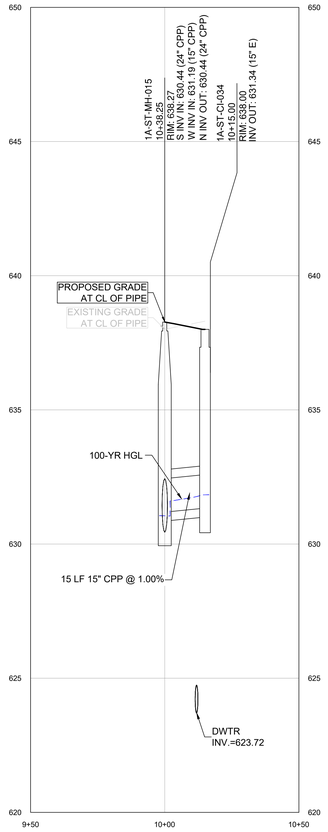

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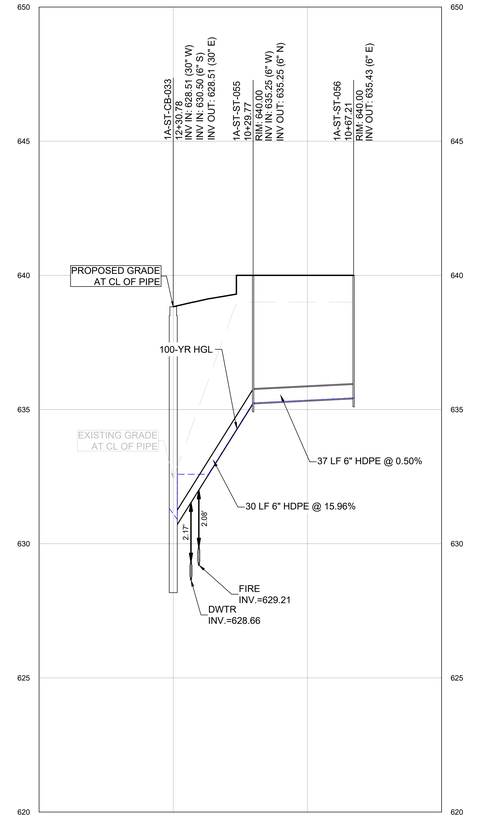

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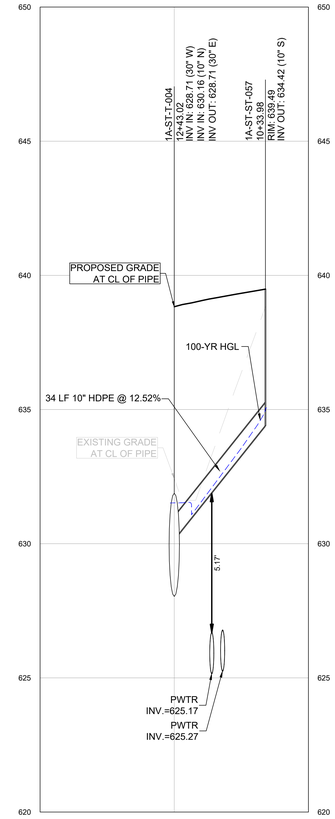

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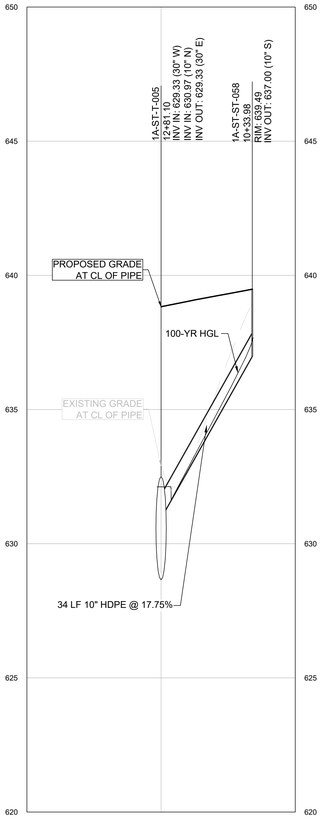

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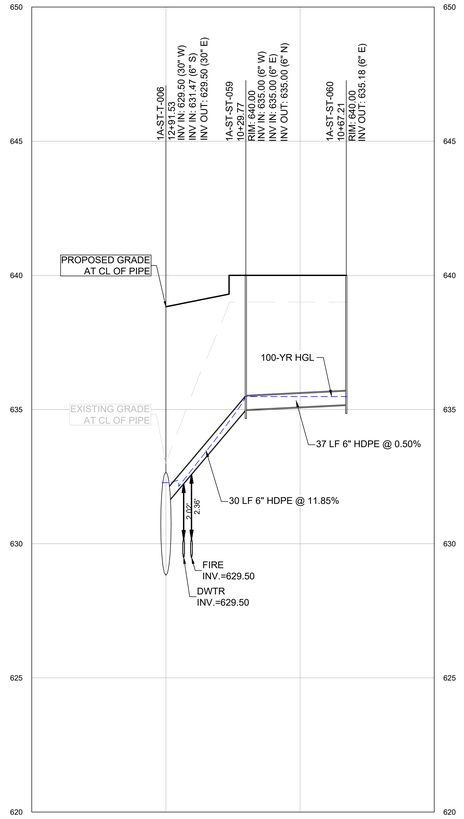

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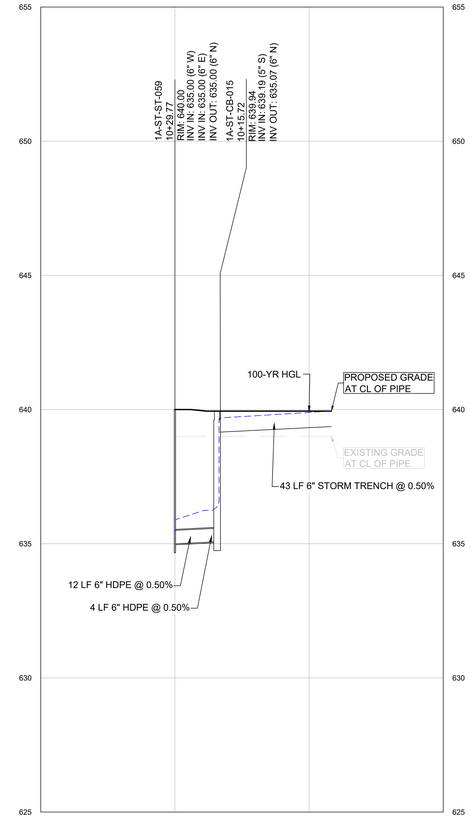

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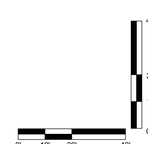

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04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

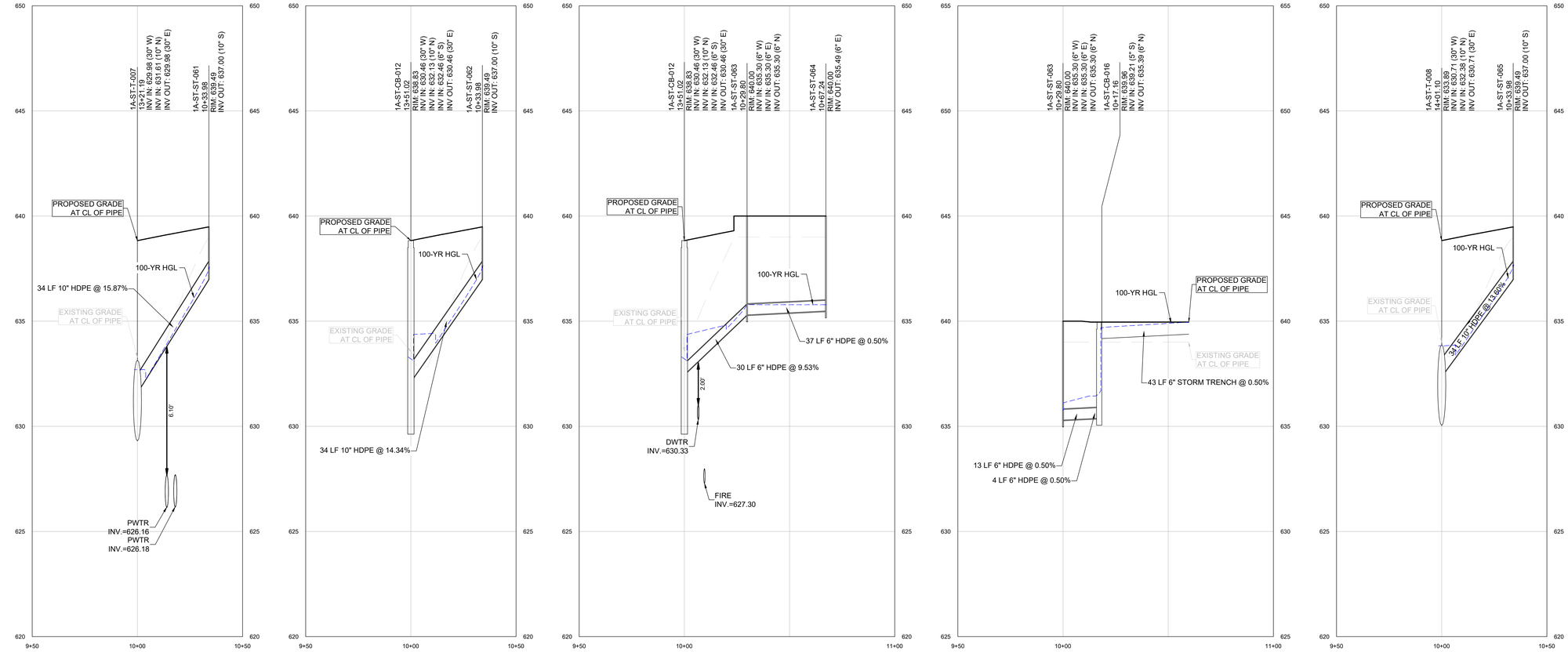
PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3411

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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1A-STRM-4.10 PROFILE

1A-STRM-4.11 PROFILE

1A-STRM-4.11.1 PROFILE

1A-STRM-4.12 PROFILE

1A-STRM-4.13 PROFILE

1A-STRM-4.13.1 PROFILE

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CONFIDENTIAL CLIENT
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ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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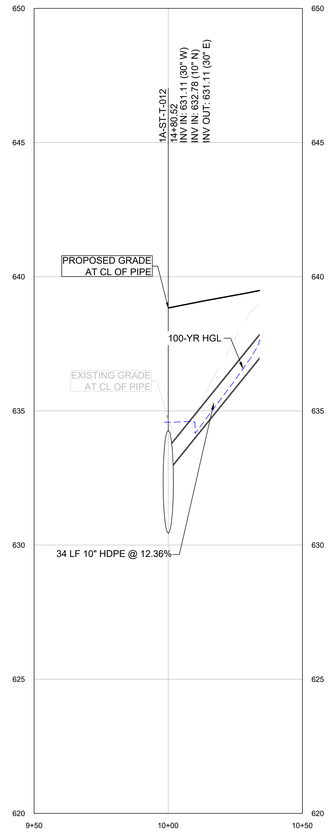

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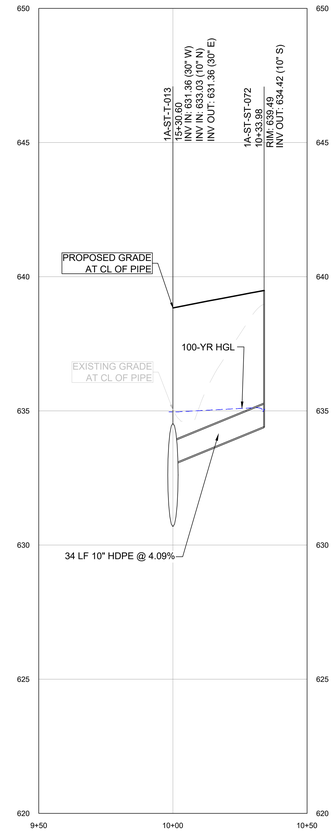

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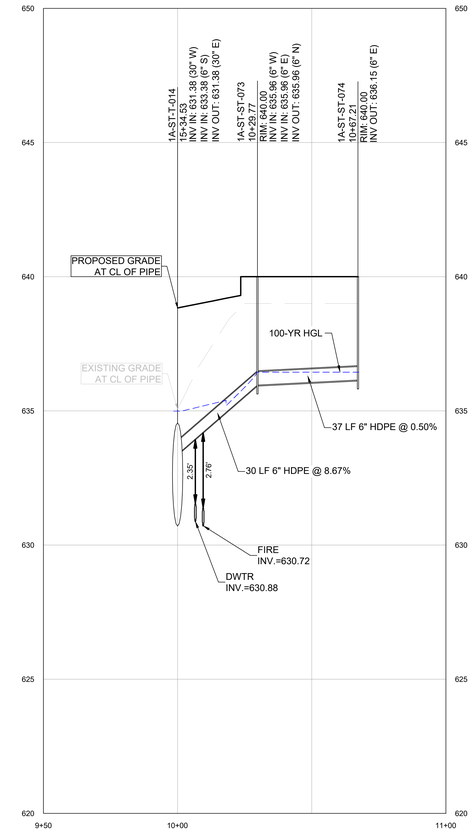

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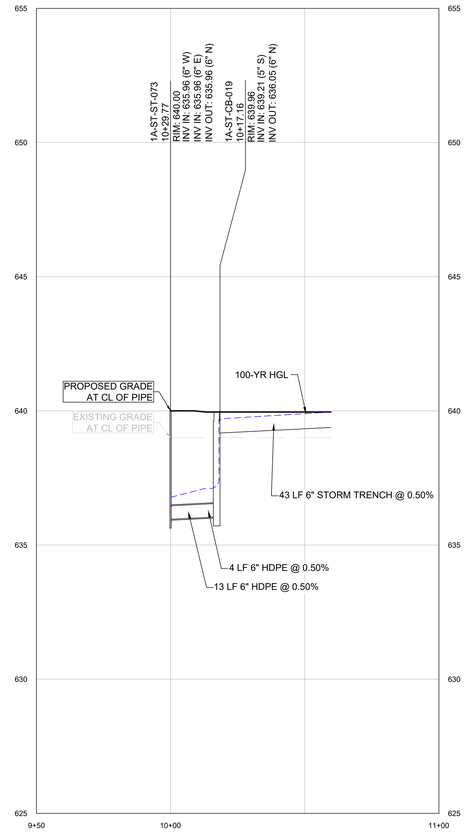

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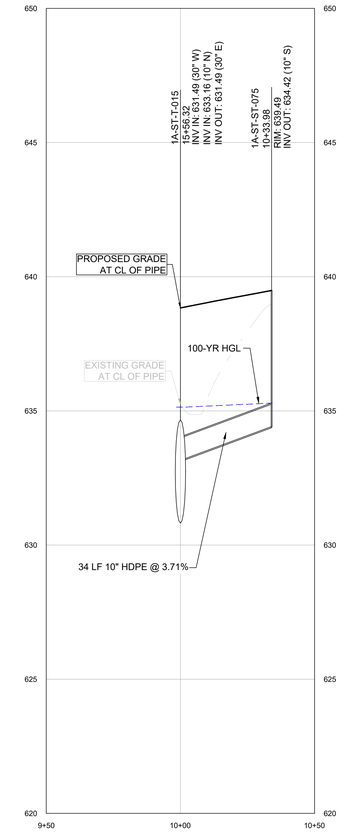

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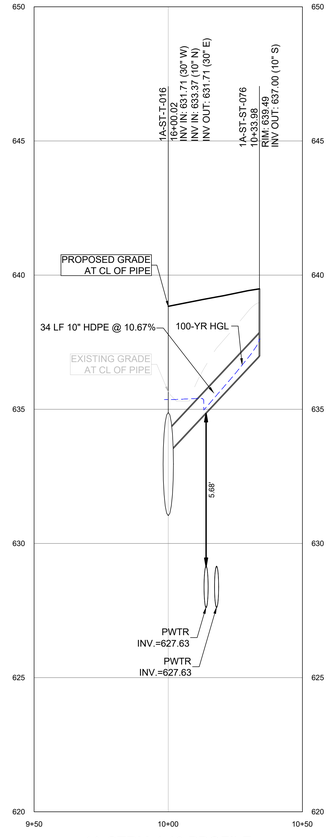

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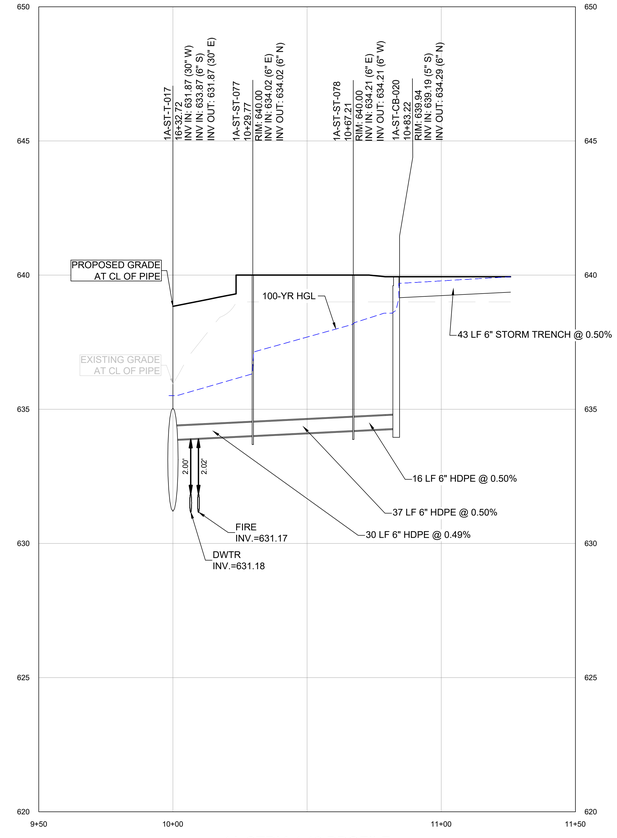

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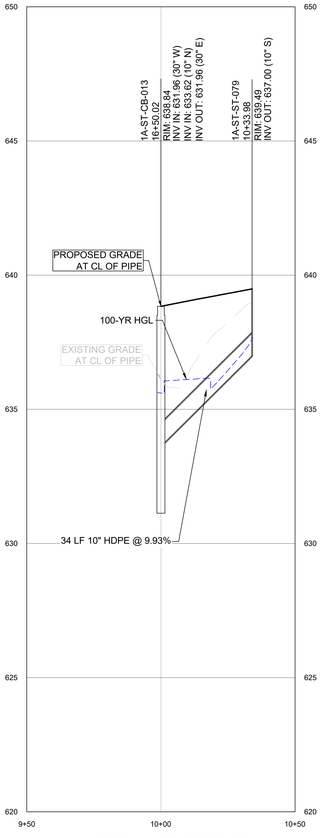

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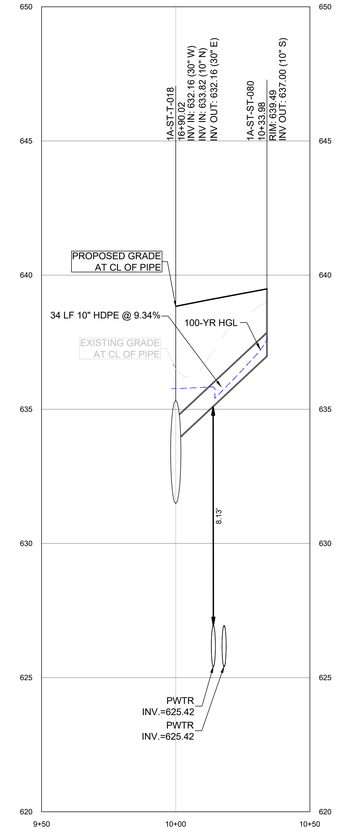

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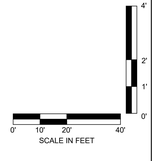

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

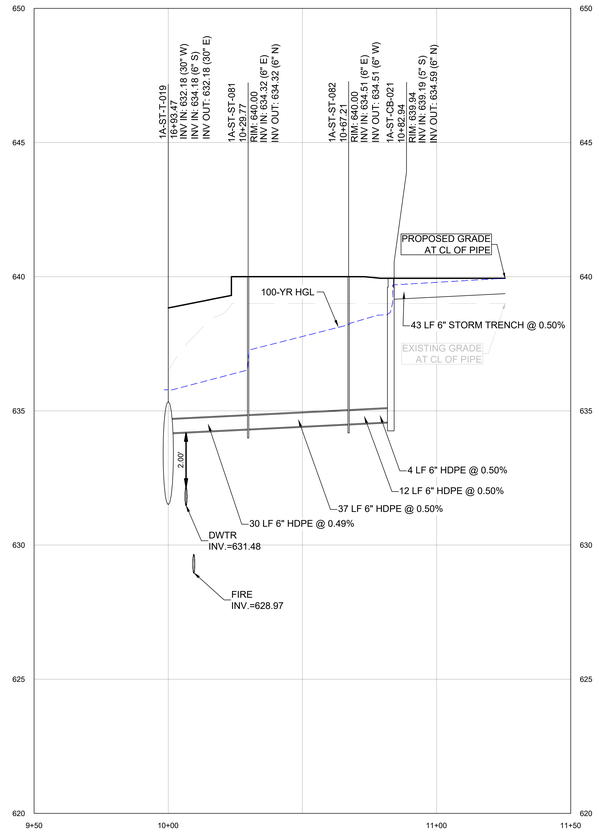
PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3413

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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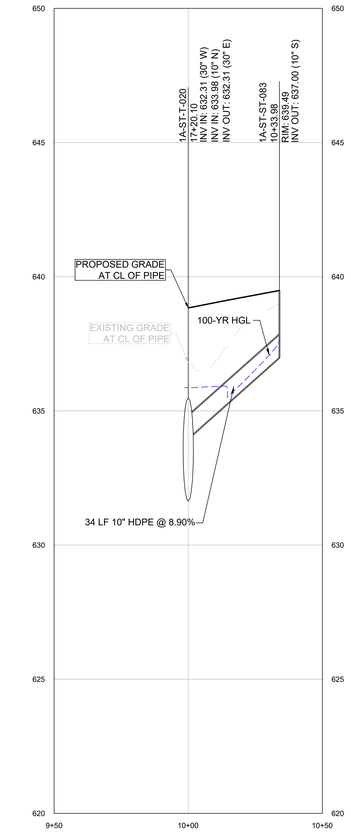

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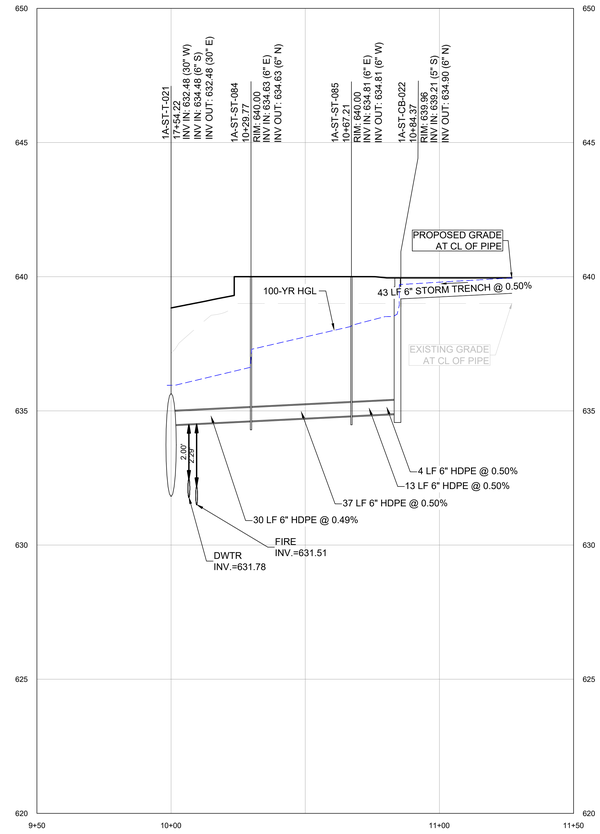

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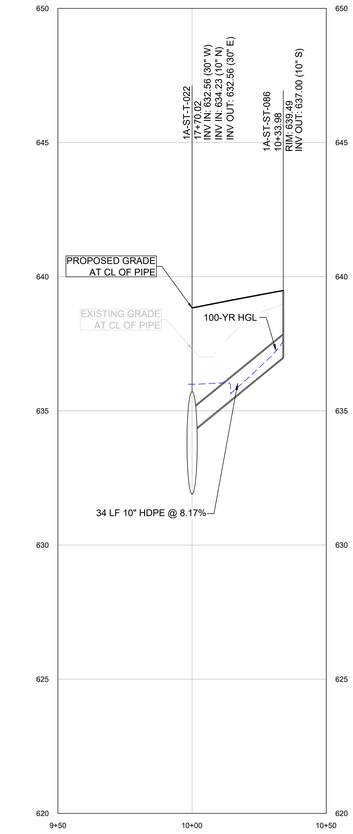

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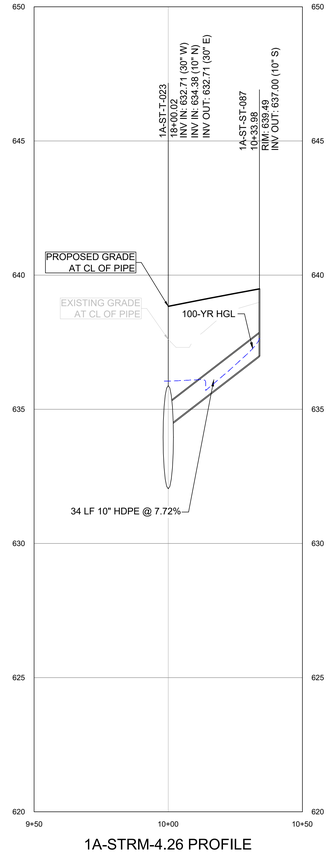

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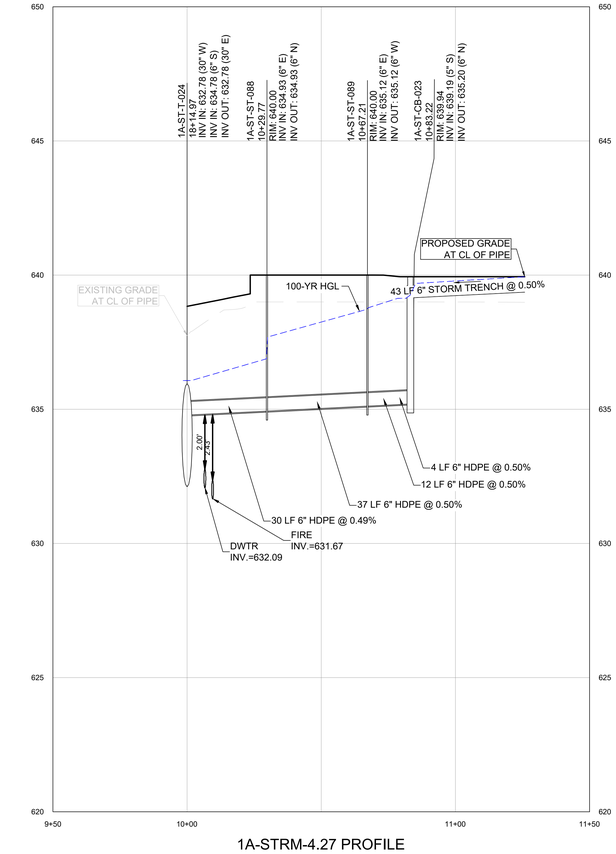

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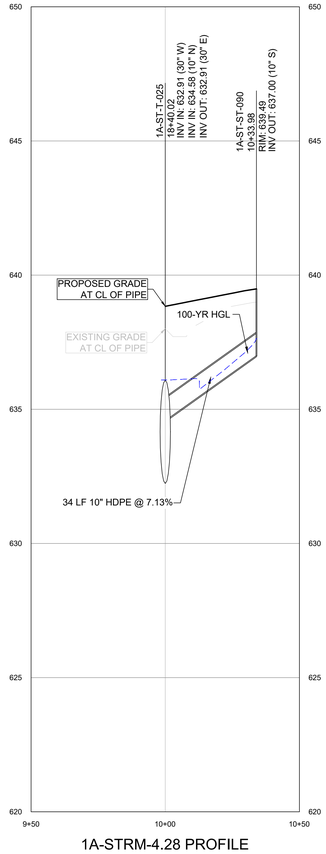

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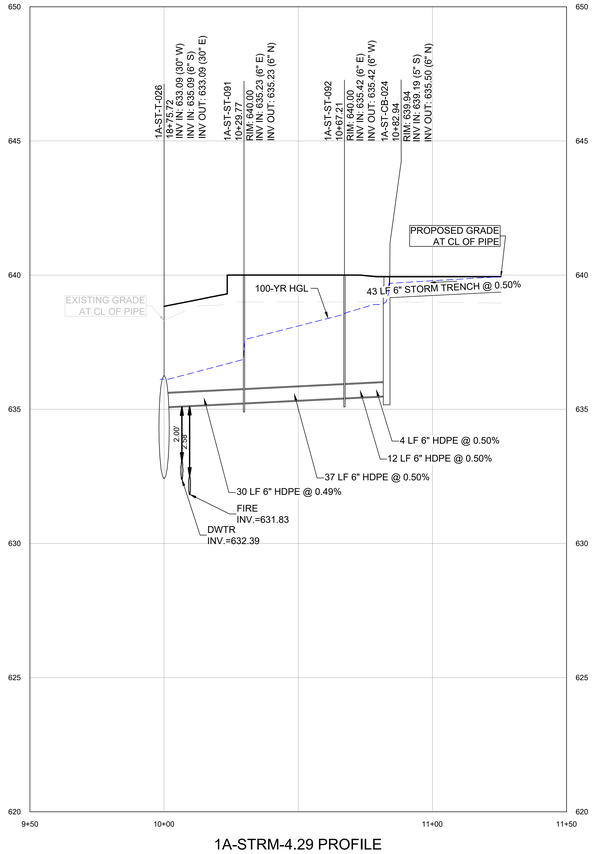

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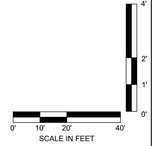

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DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

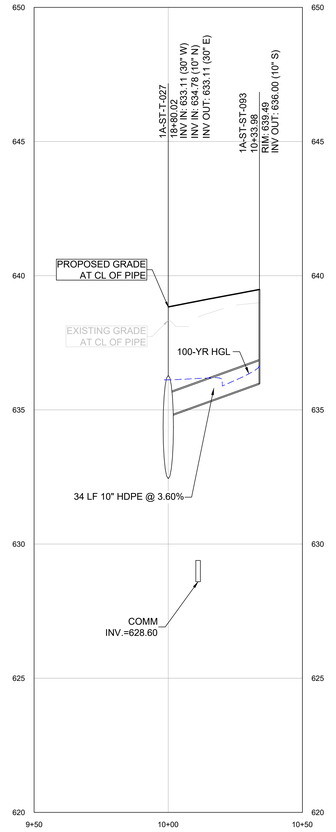
PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3414

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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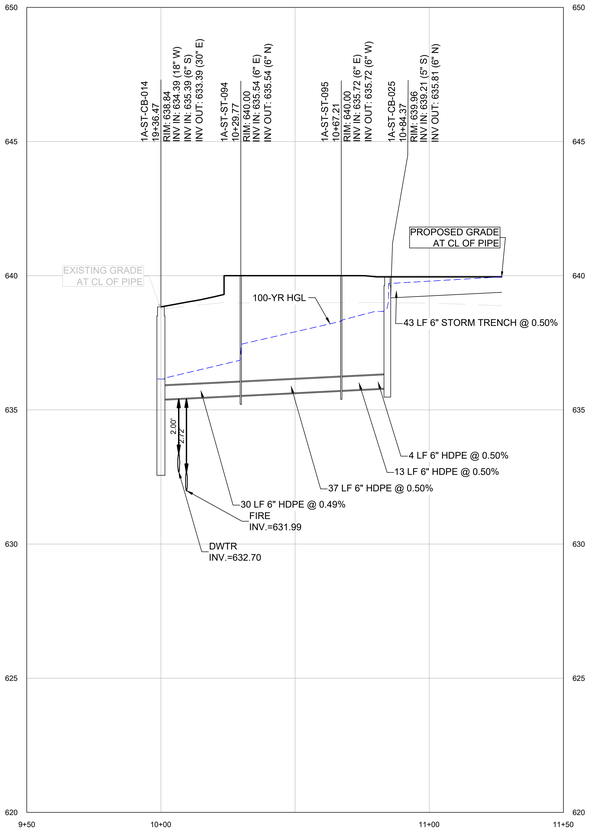

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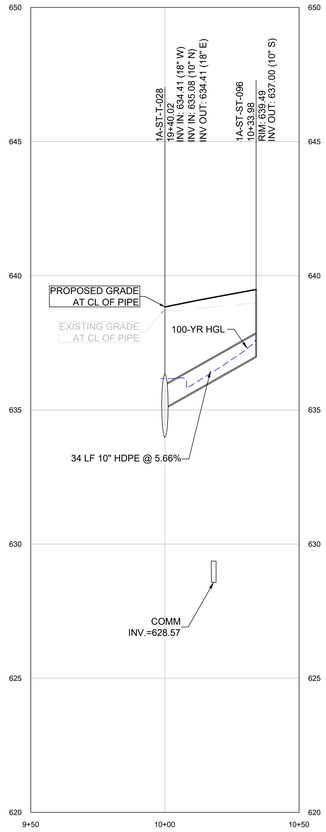

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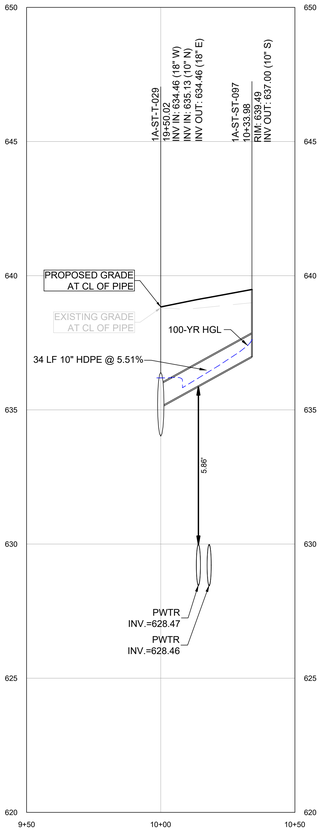

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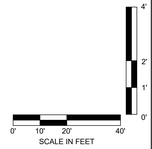

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DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3415

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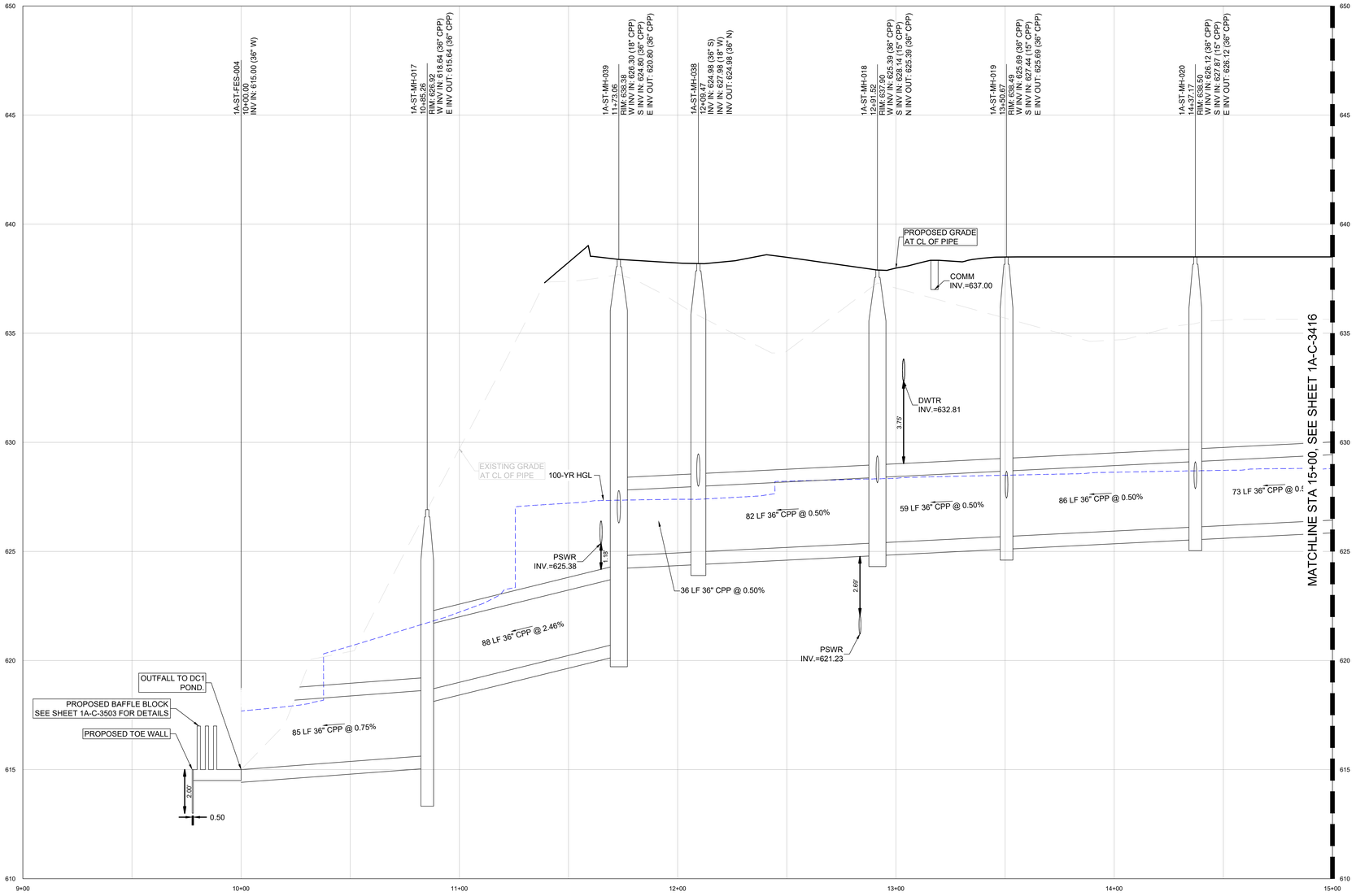

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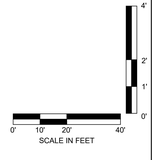

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DEAN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3416

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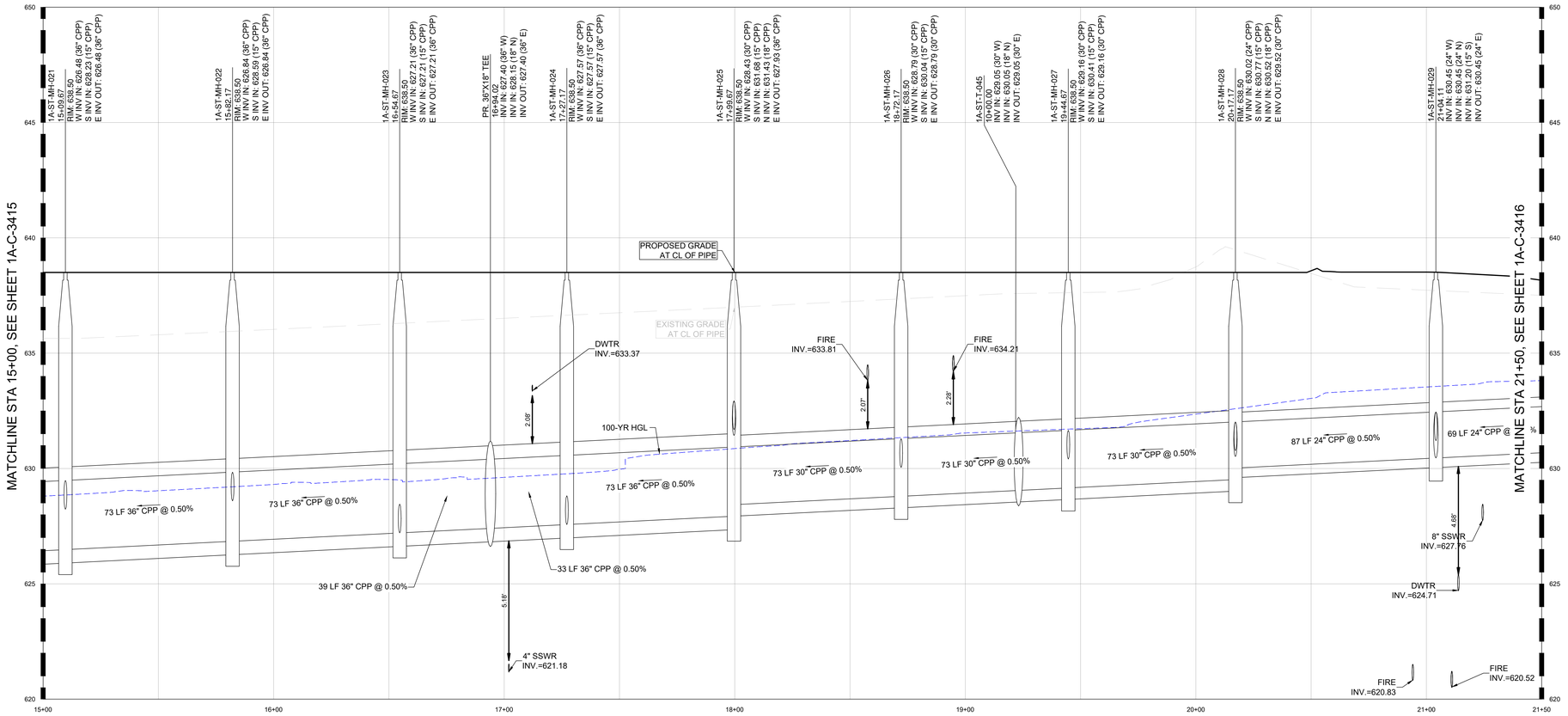

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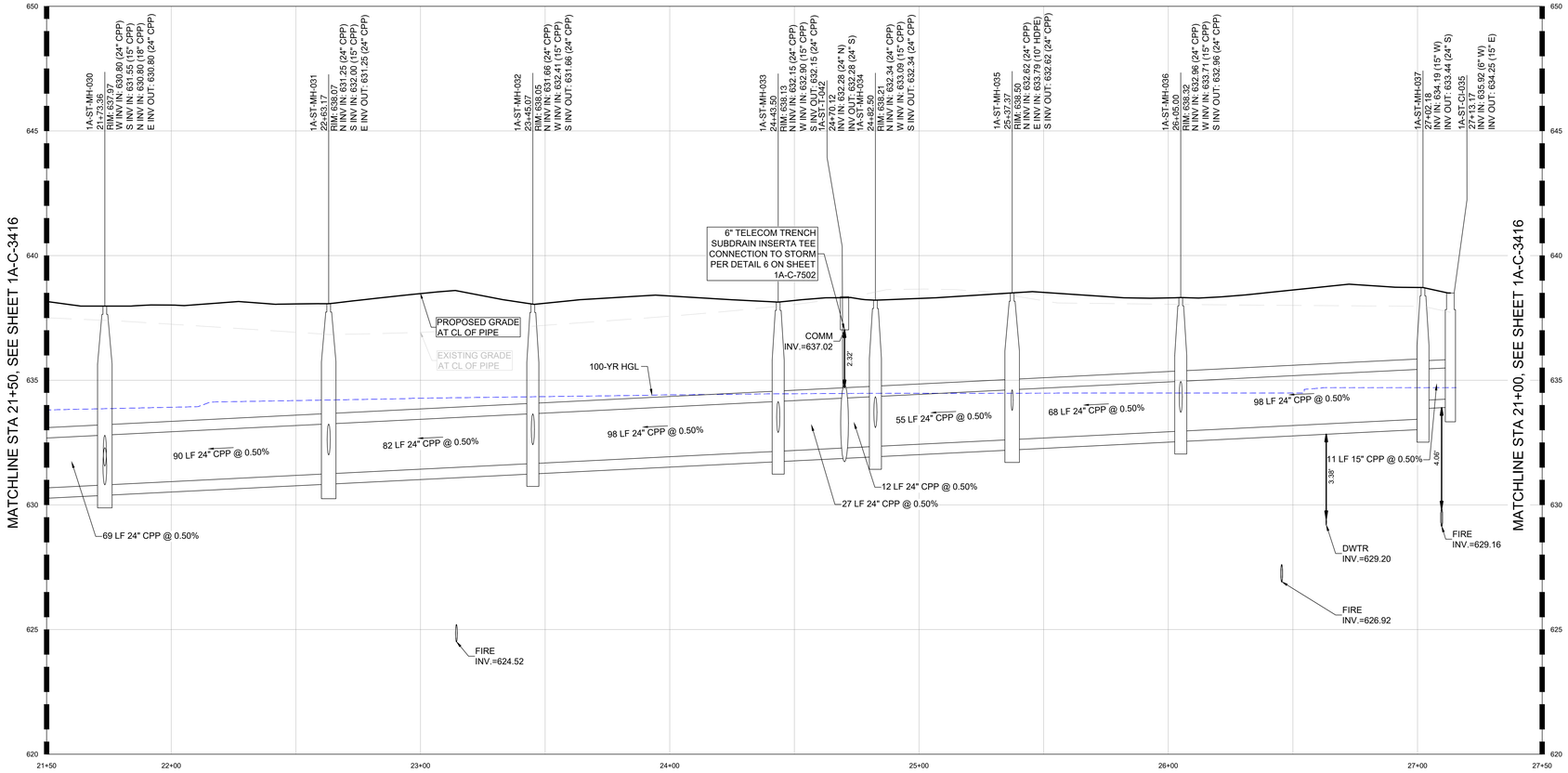

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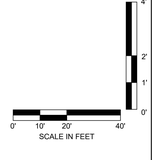

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DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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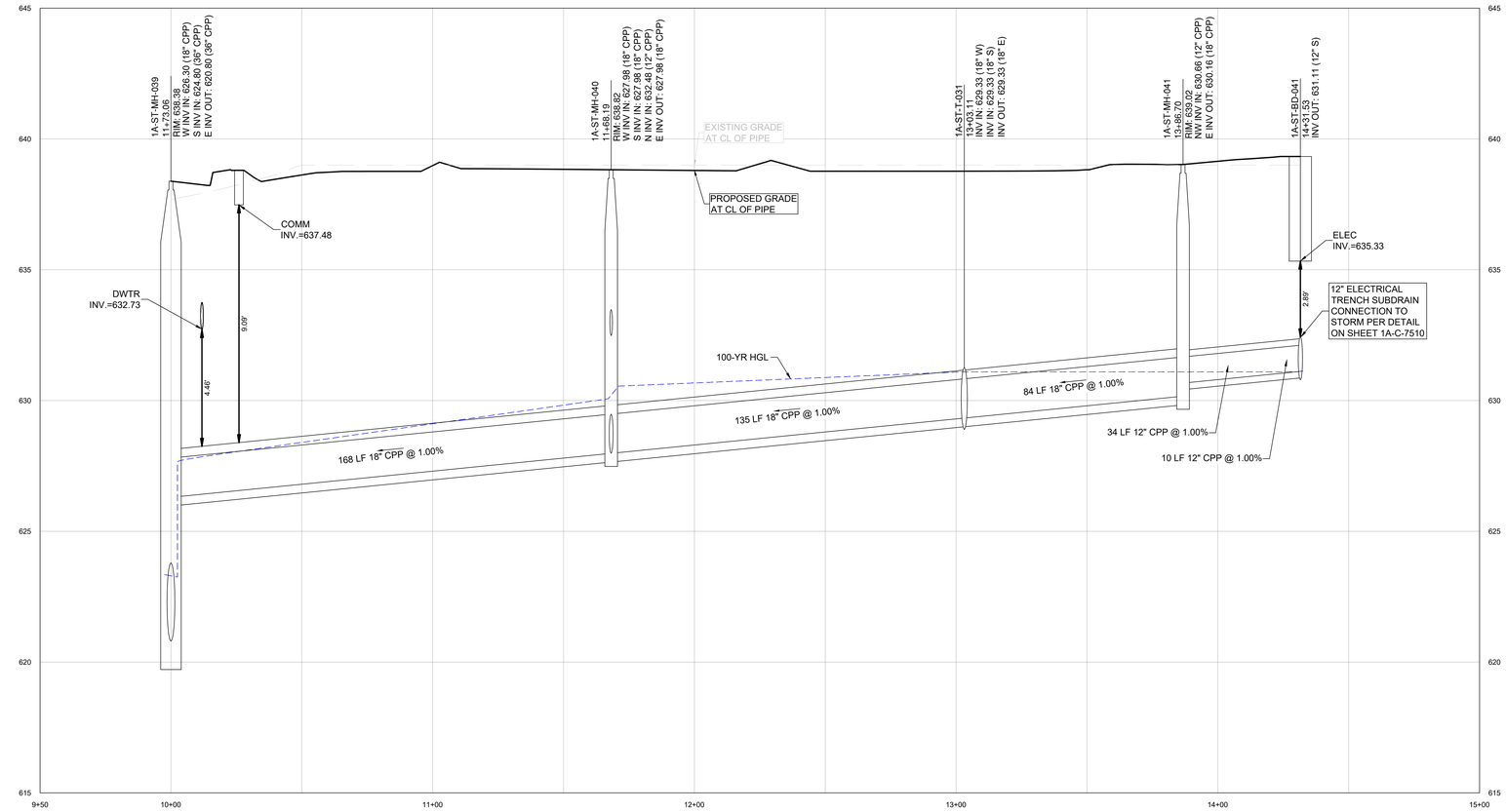

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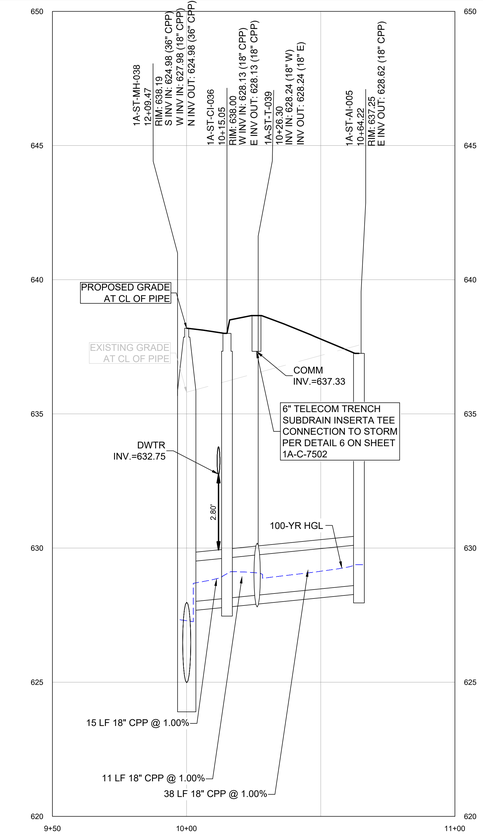

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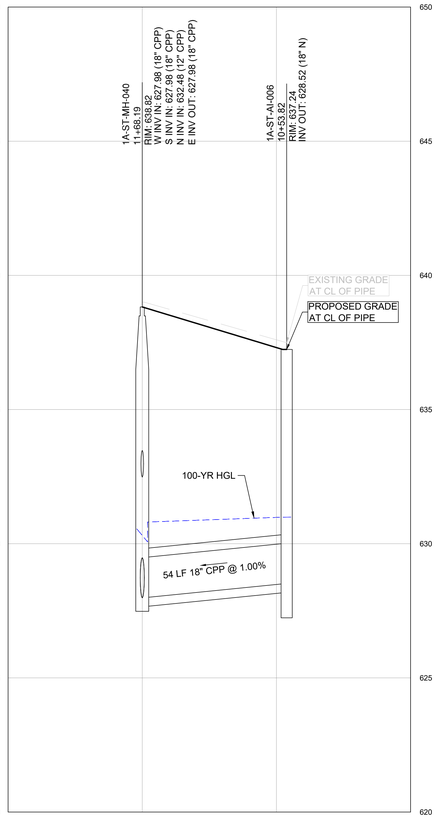

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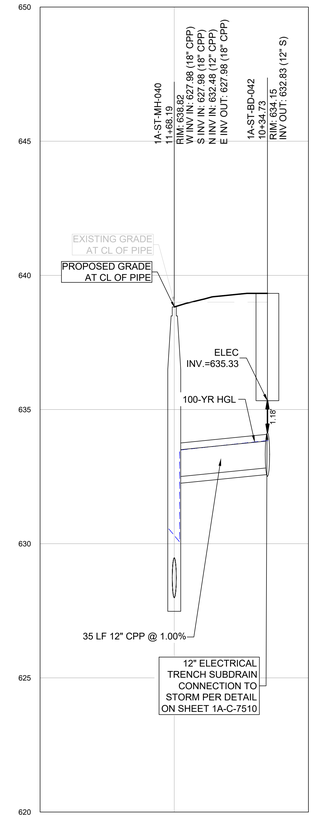

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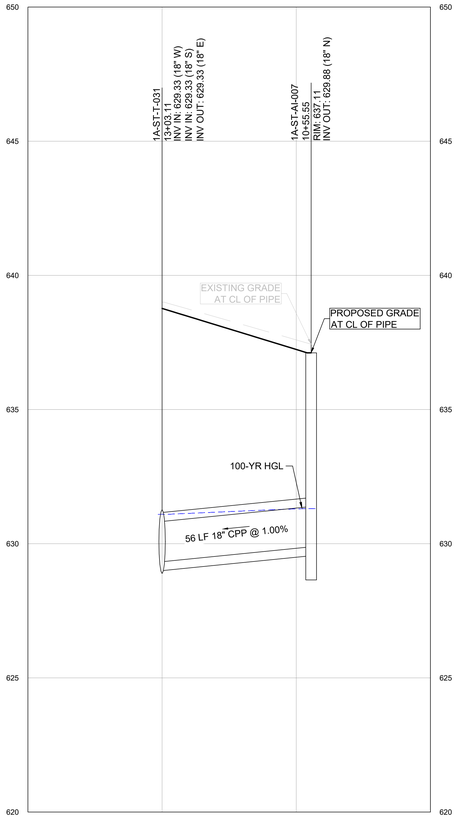

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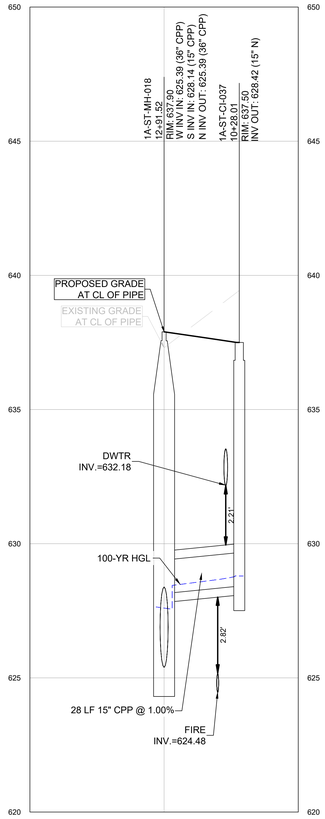

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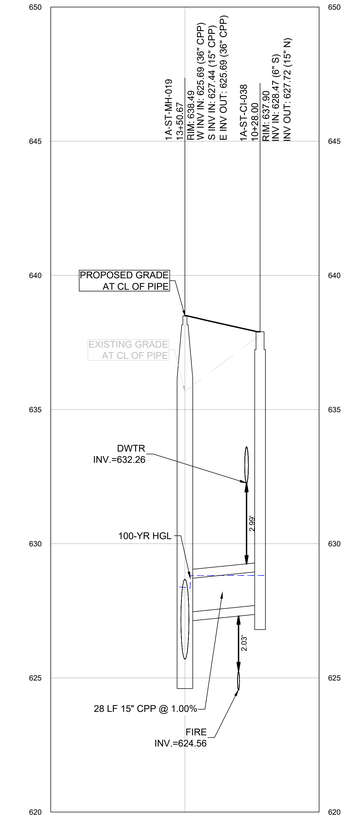

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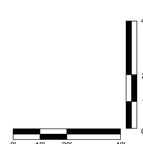

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

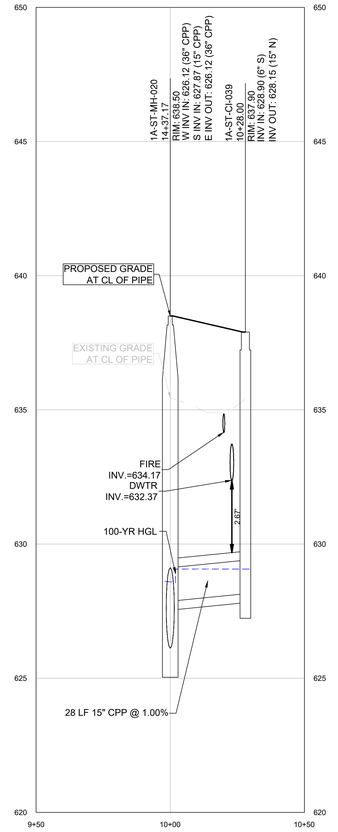
PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3418

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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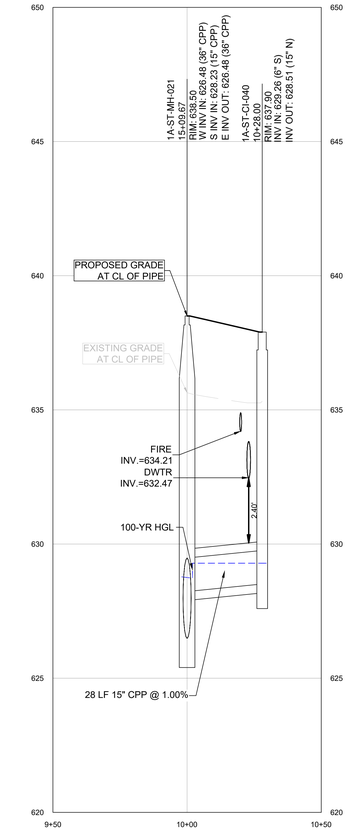

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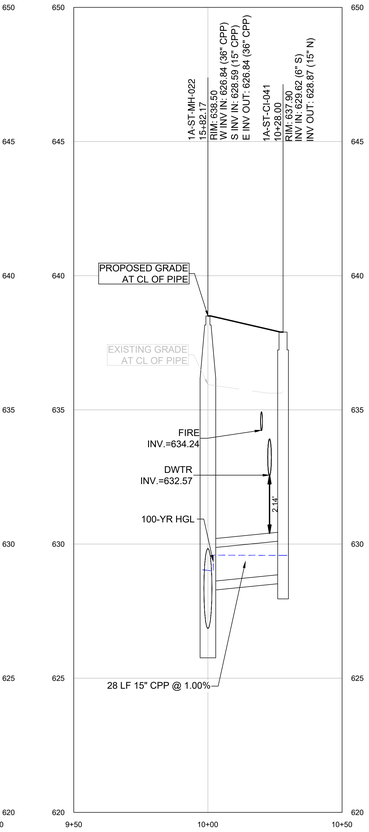

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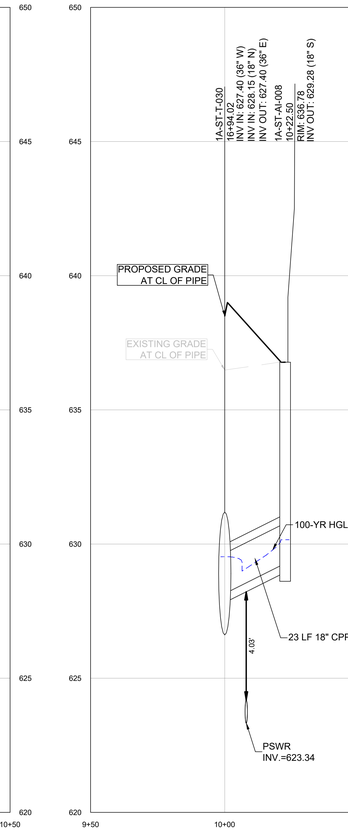

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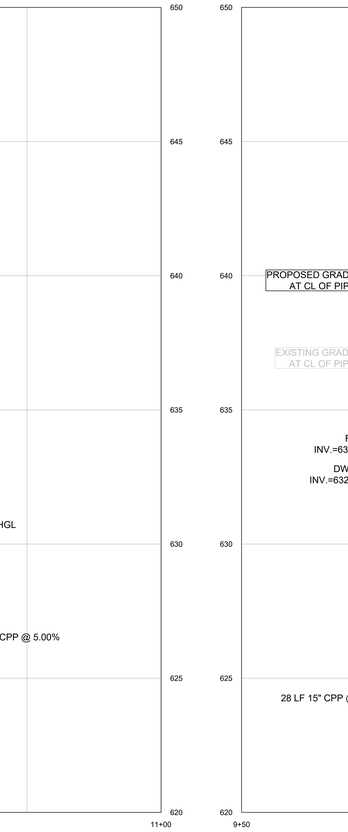

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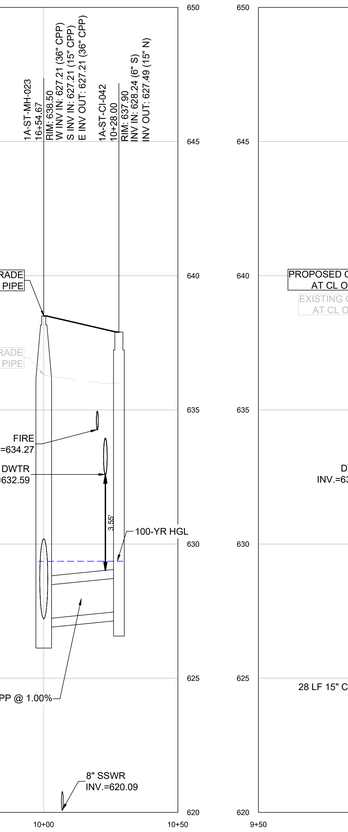

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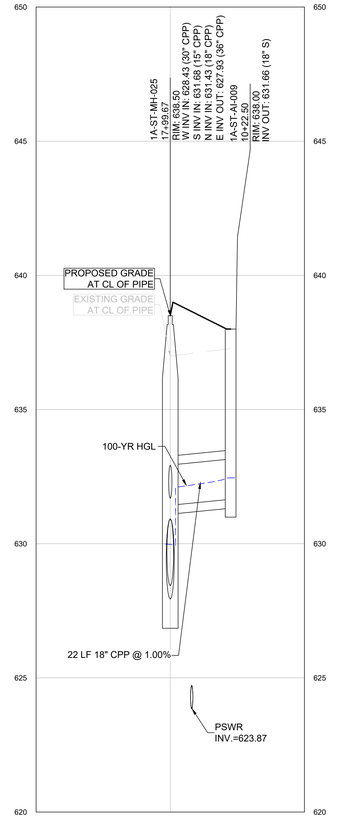

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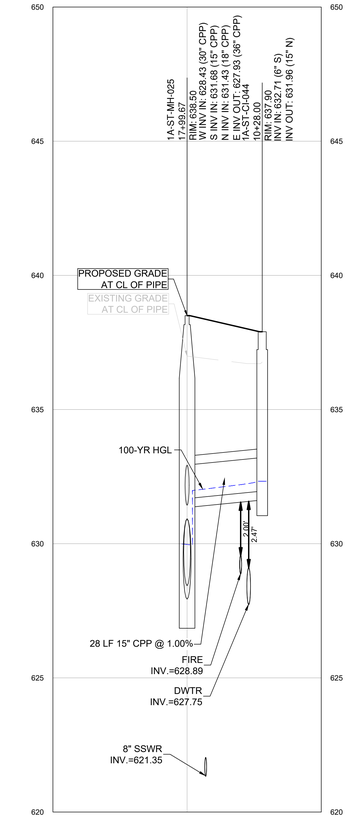

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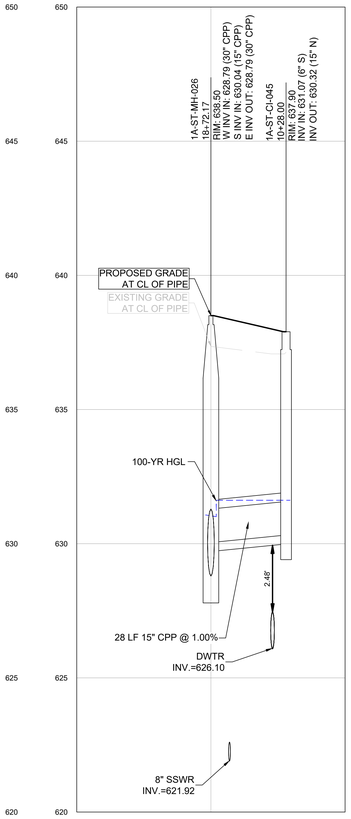

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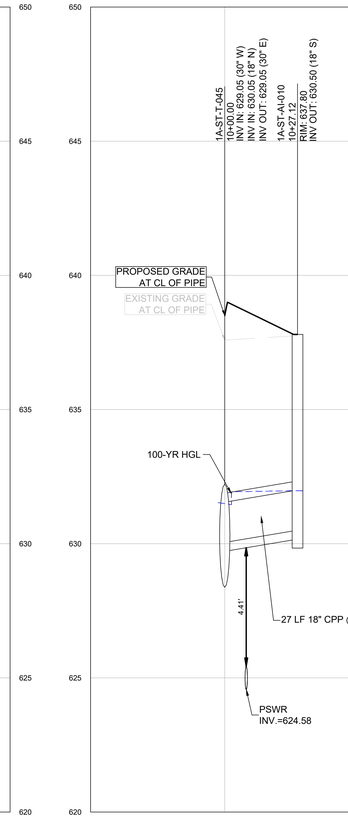

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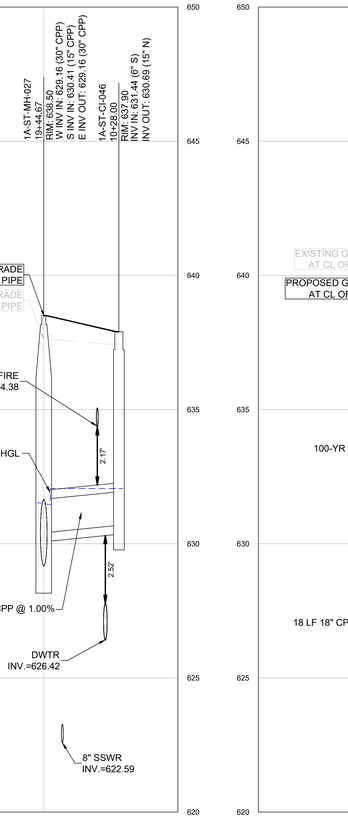

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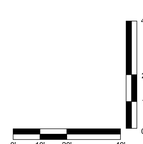

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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

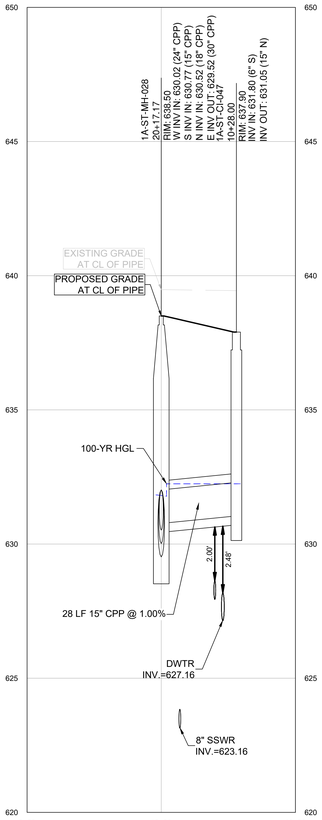
PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3419

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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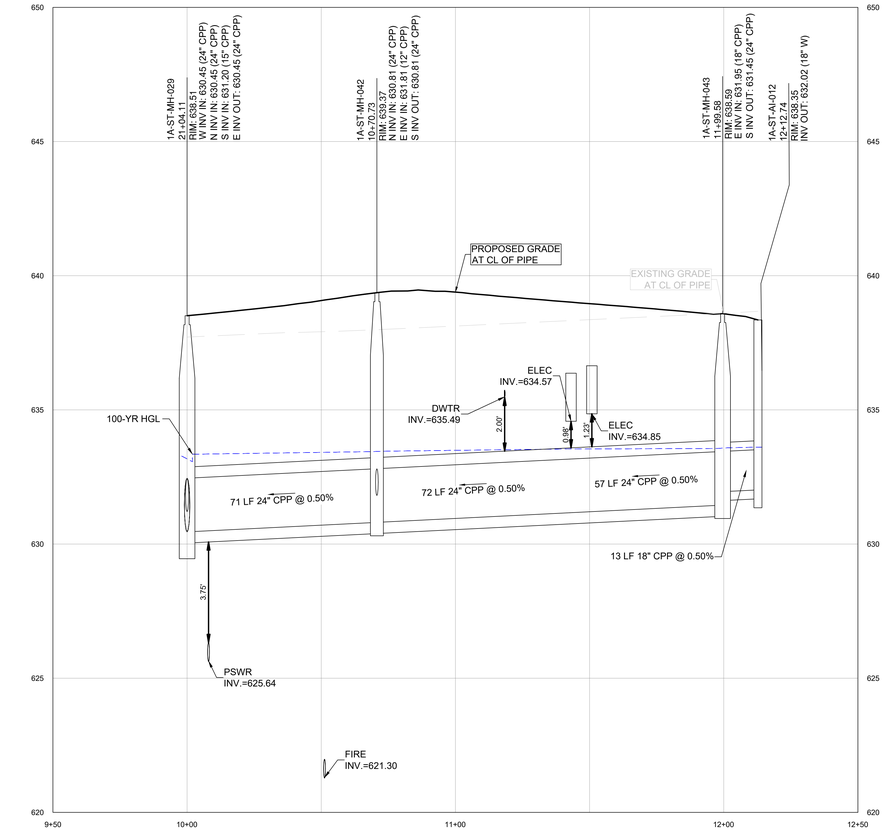

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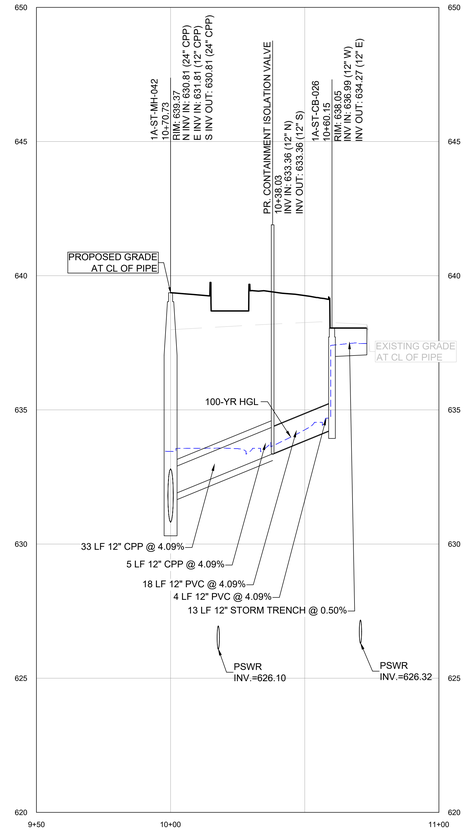

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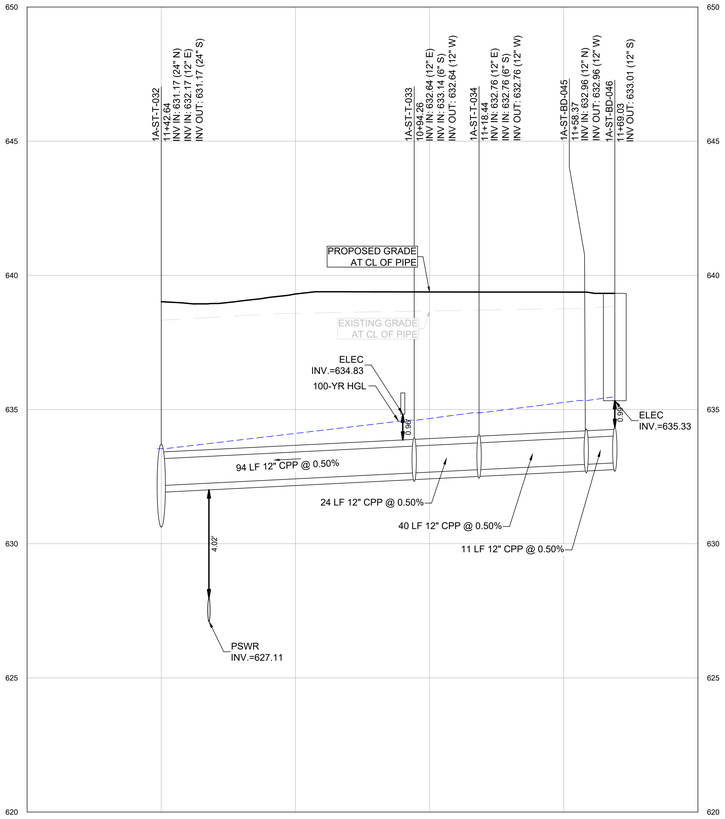

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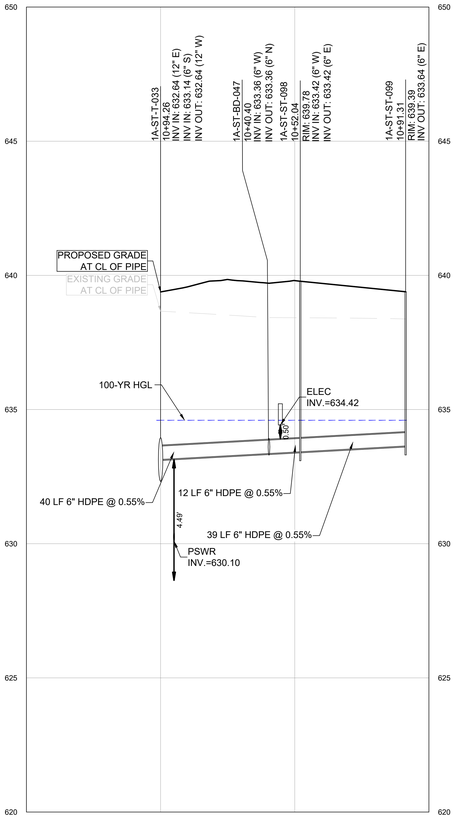

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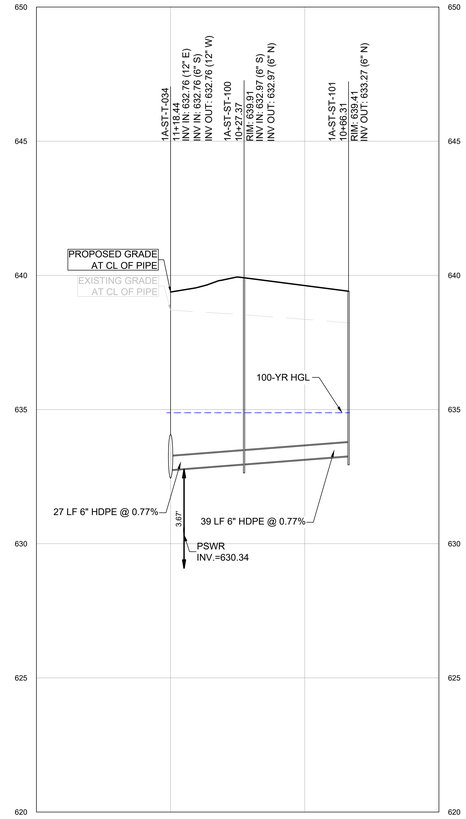

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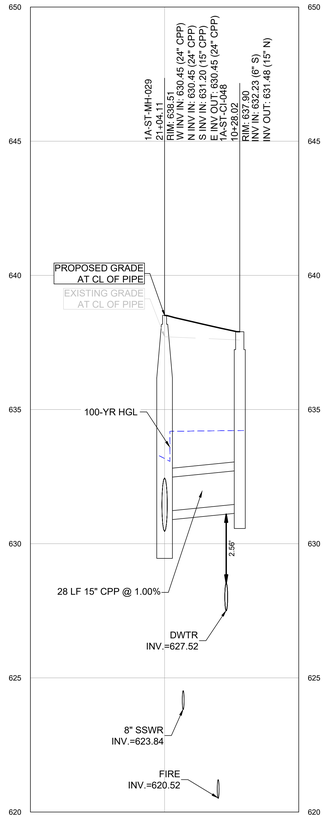

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OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3420

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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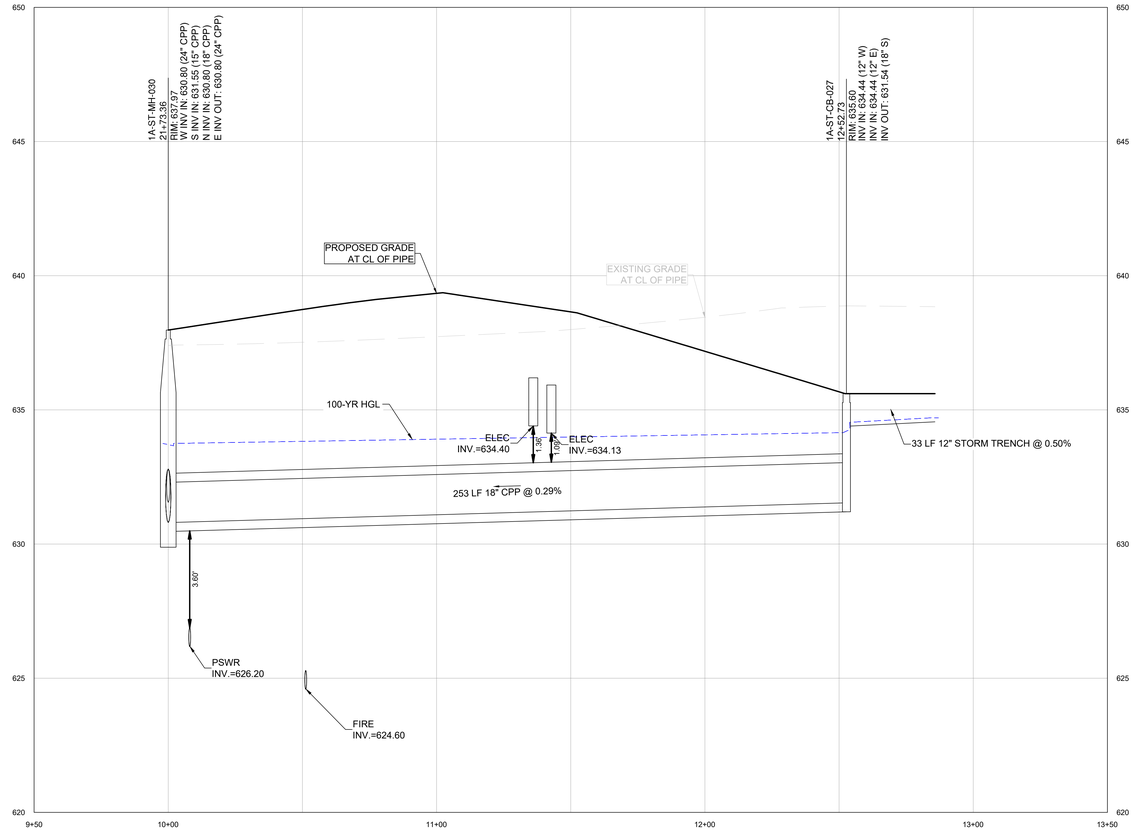

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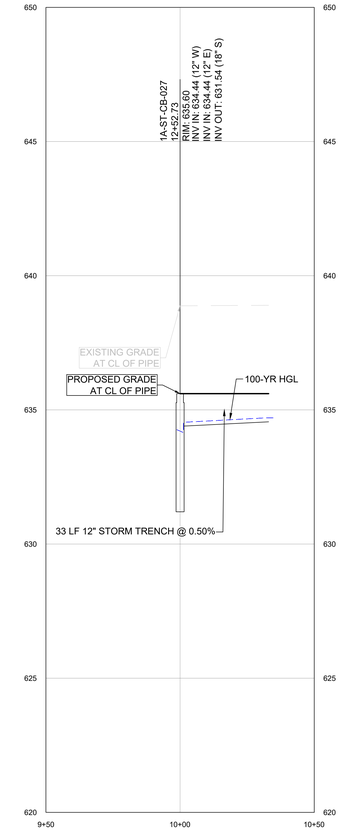

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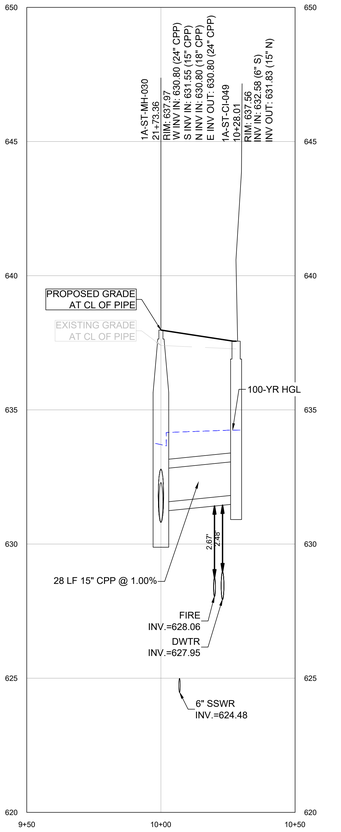

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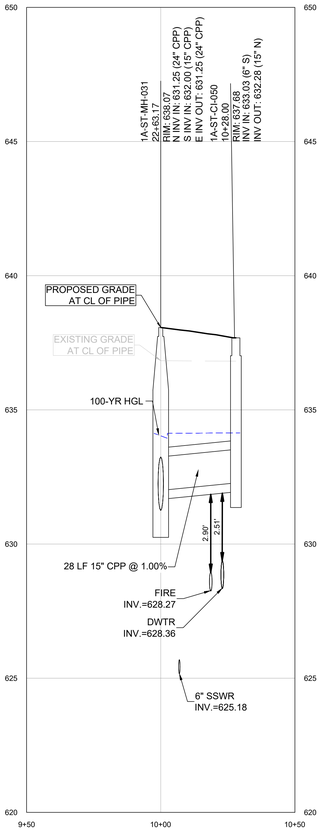

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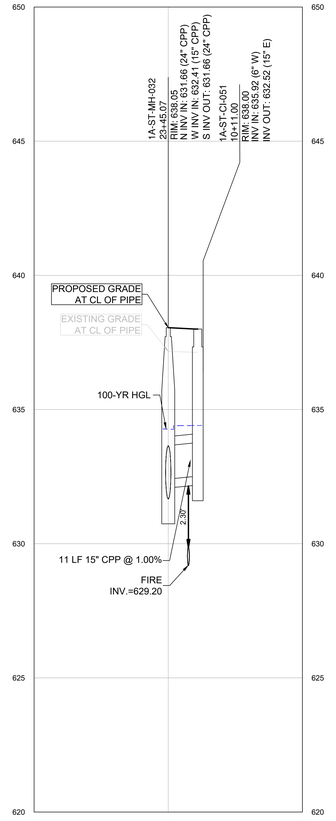

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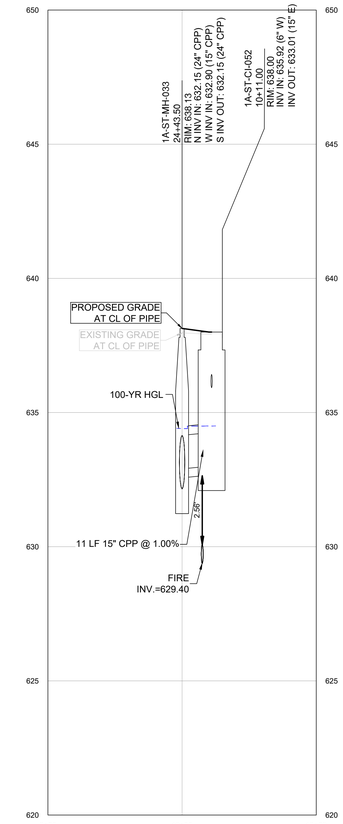

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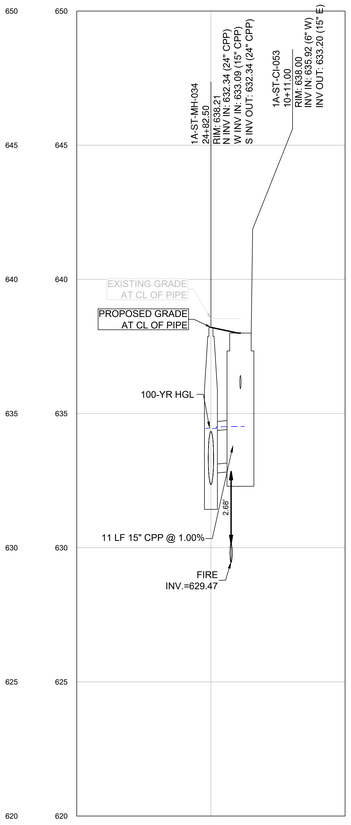

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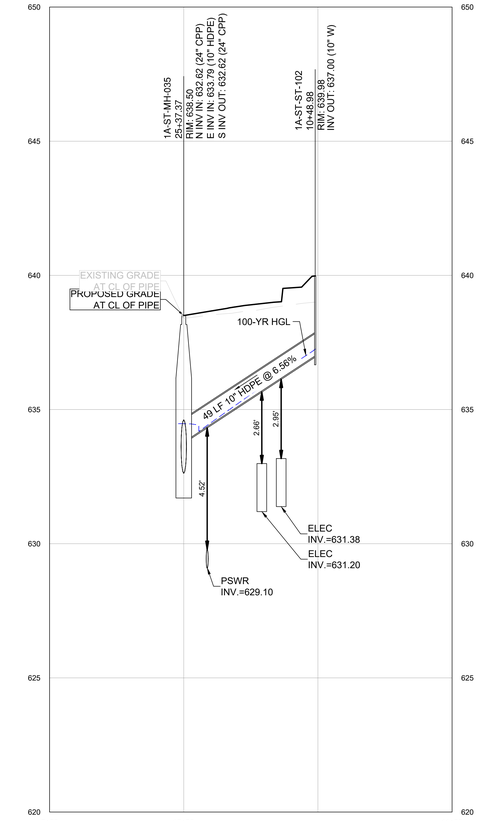

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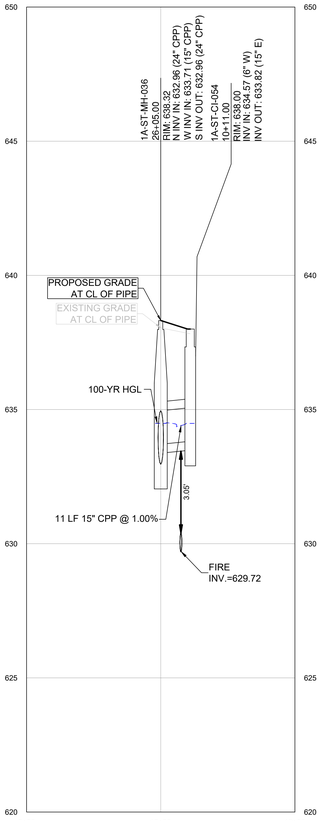

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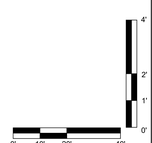

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3421

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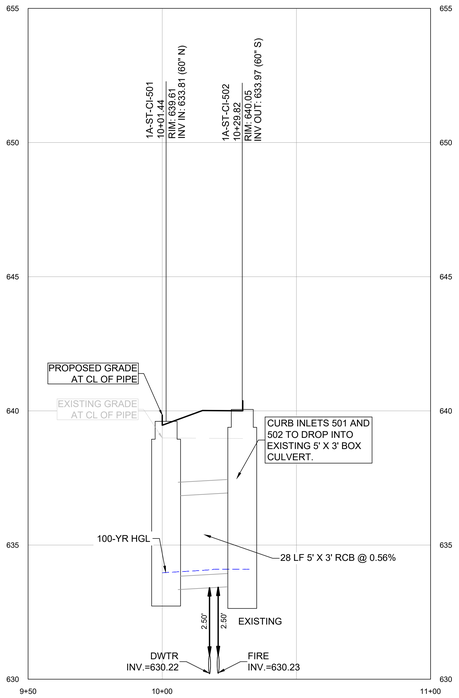

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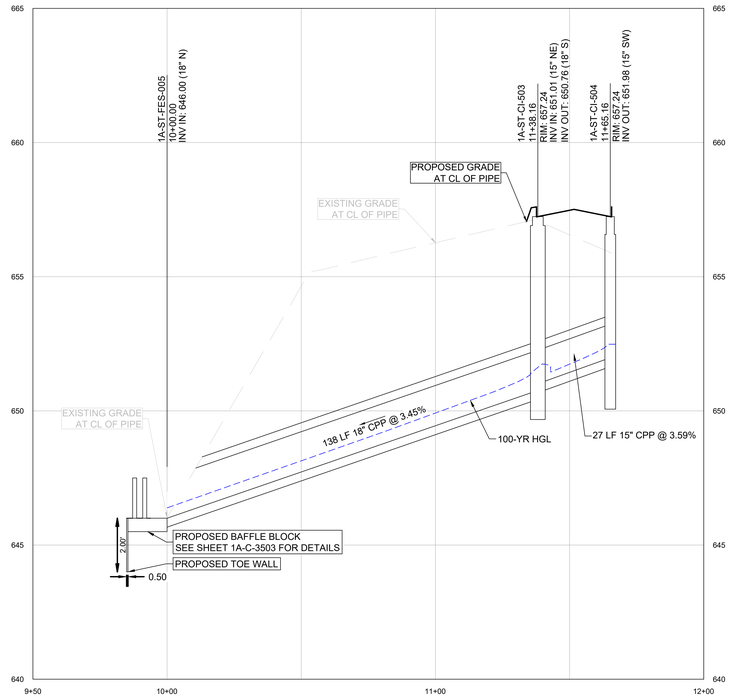

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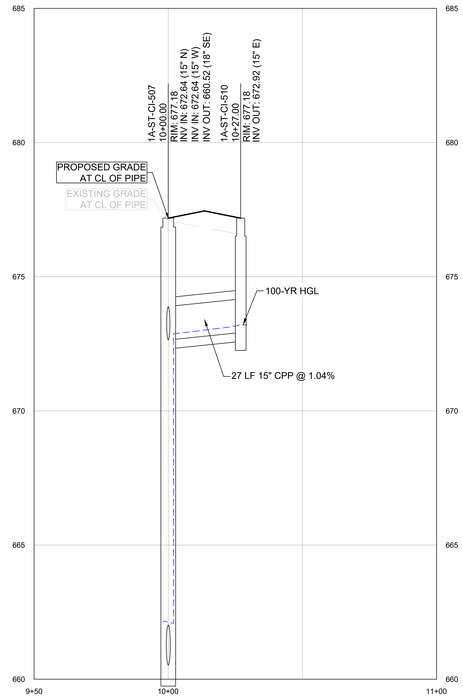

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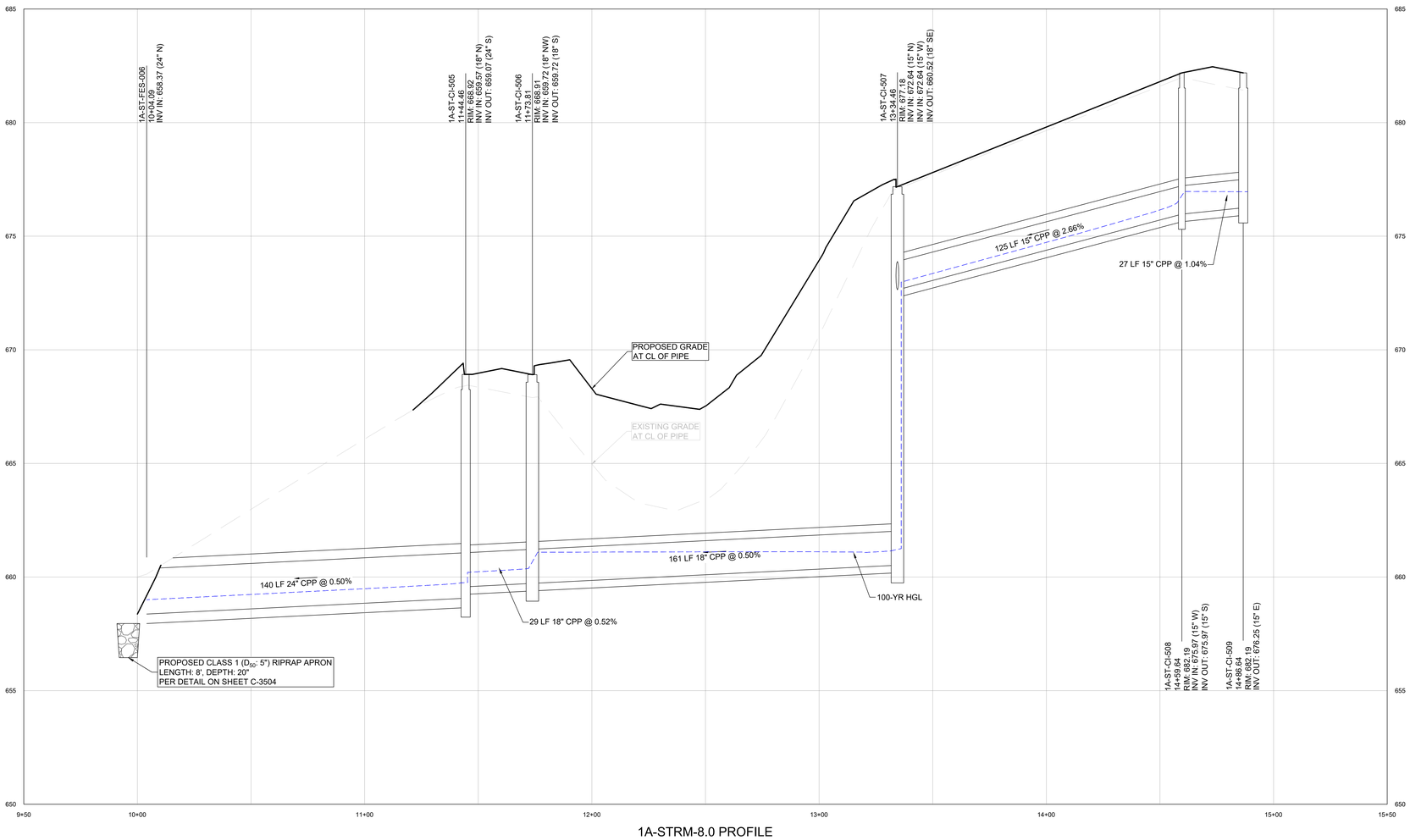

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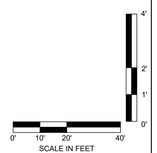

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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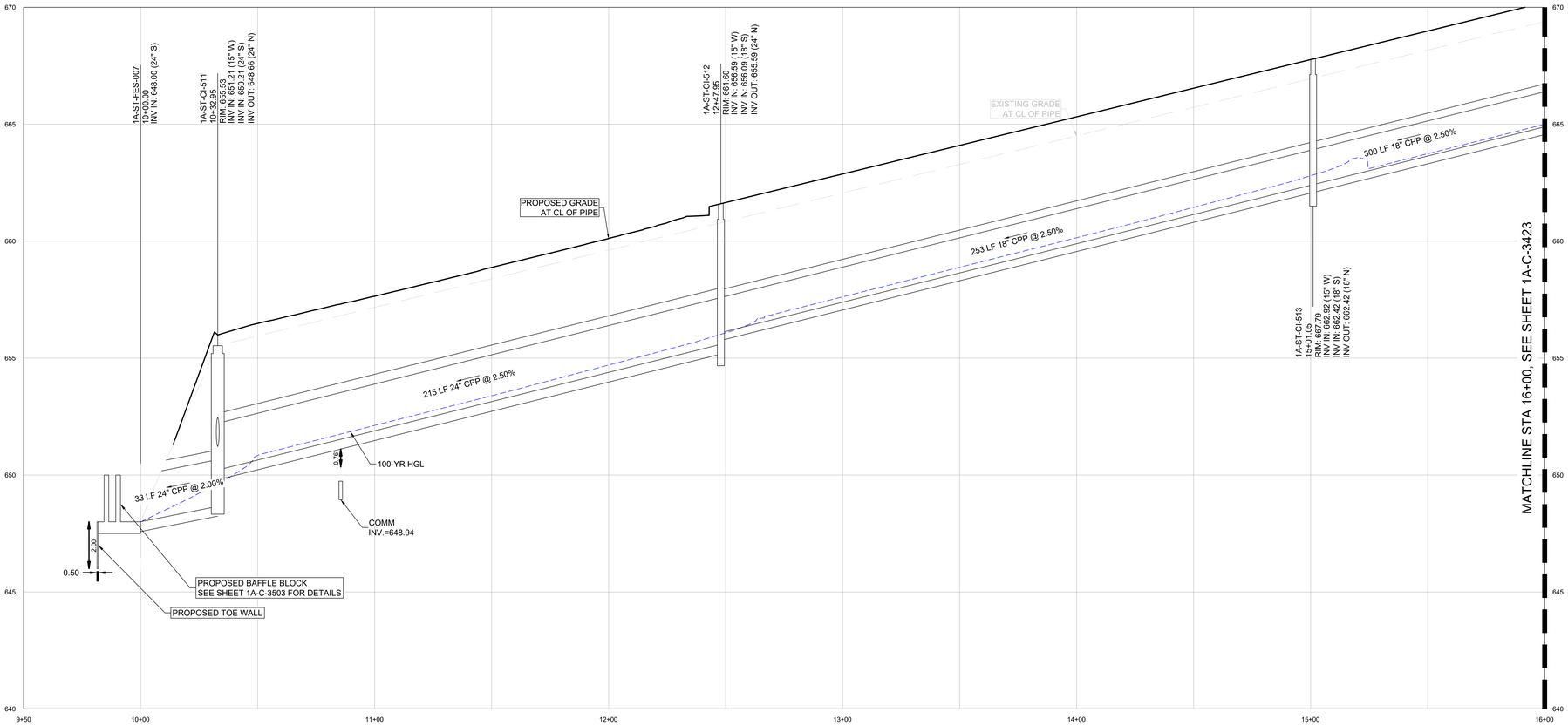

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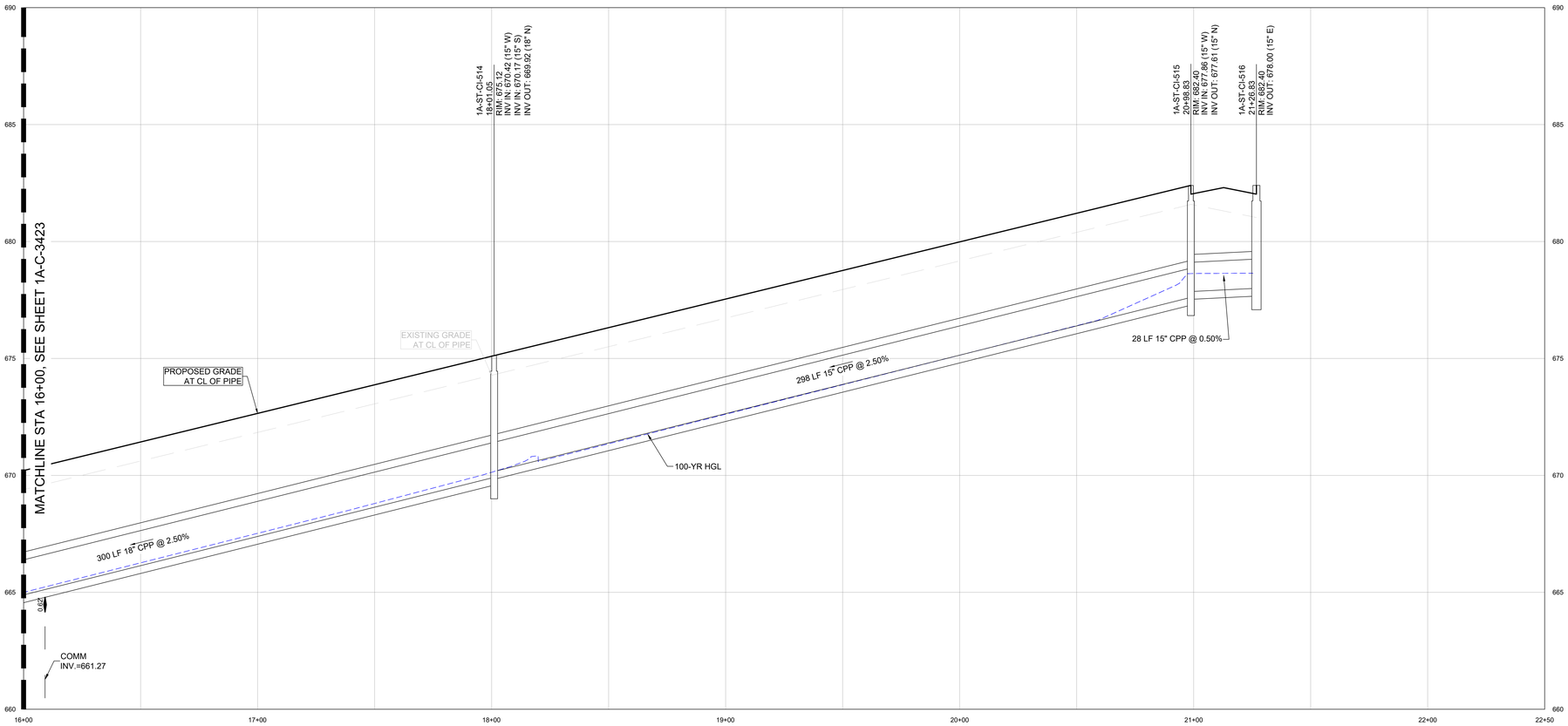

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PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3423

PAPER SIZE: E (36"x48")
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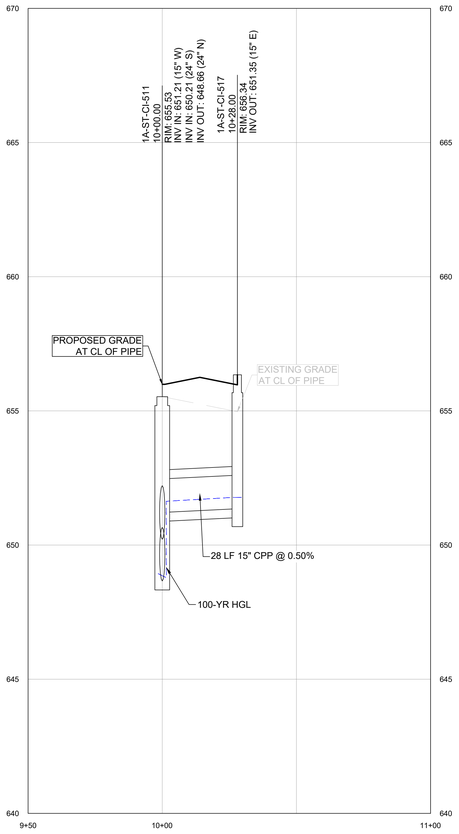

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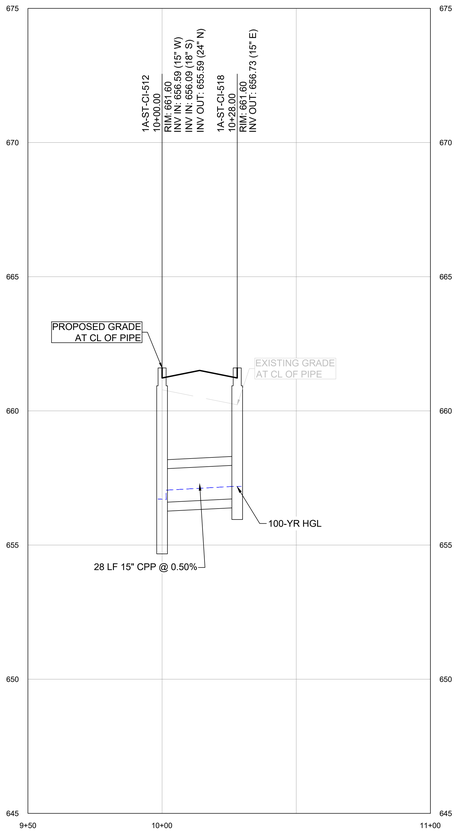

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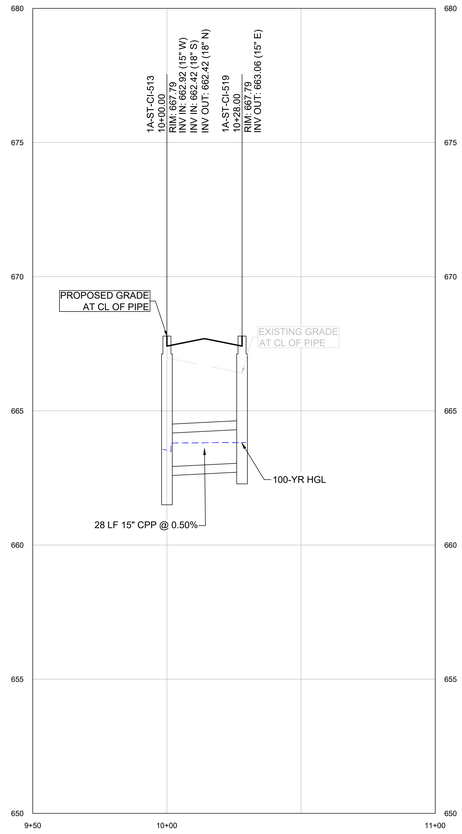

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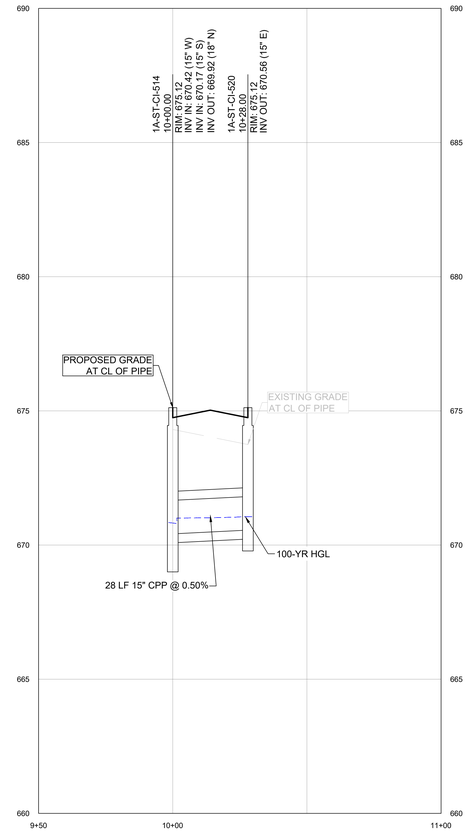

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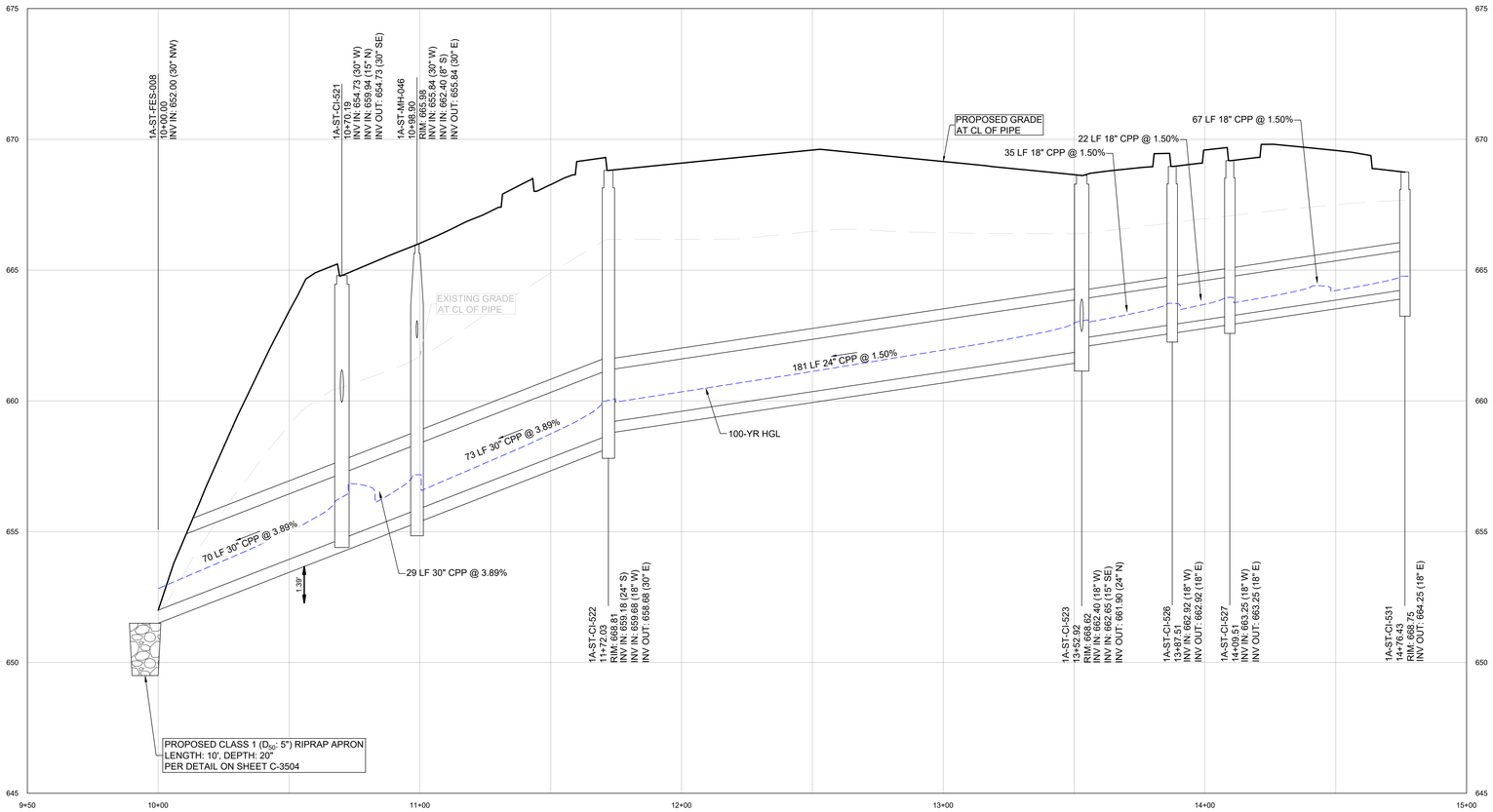

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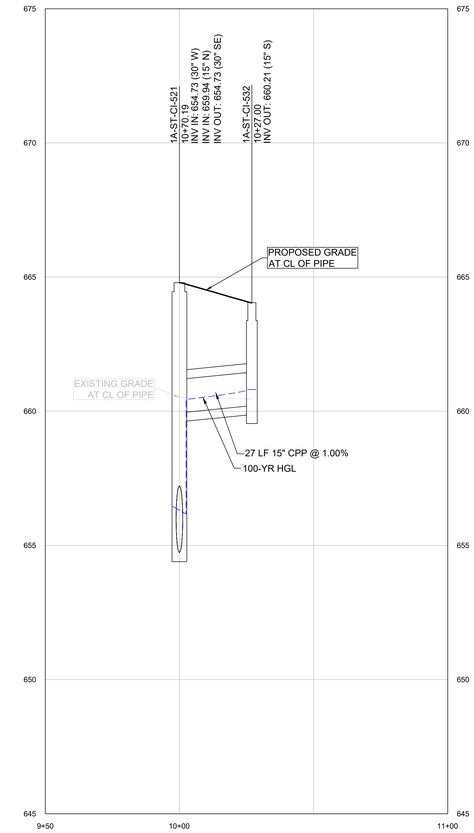

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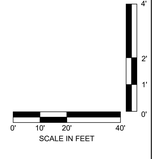

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04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3424

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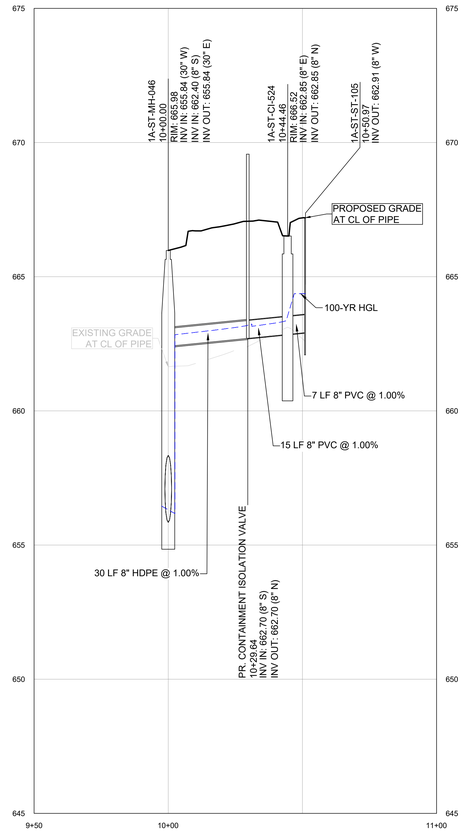

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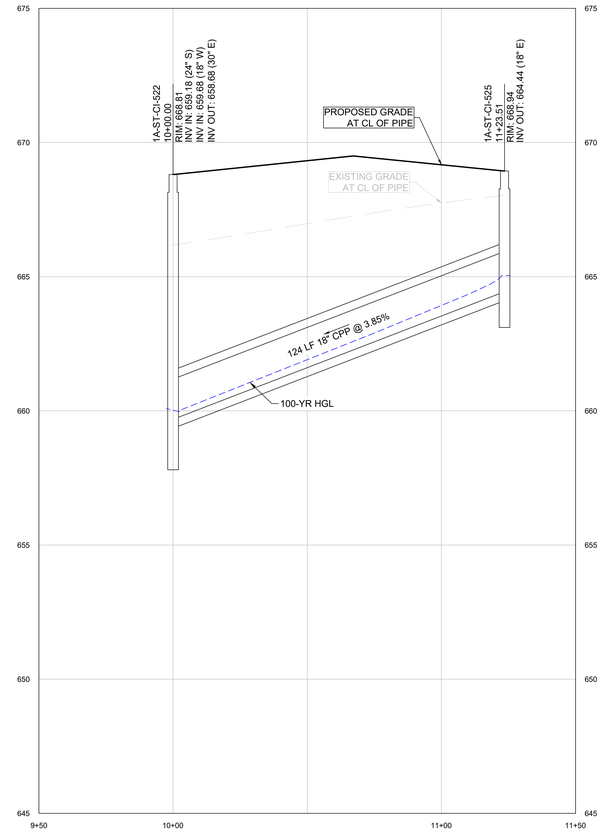

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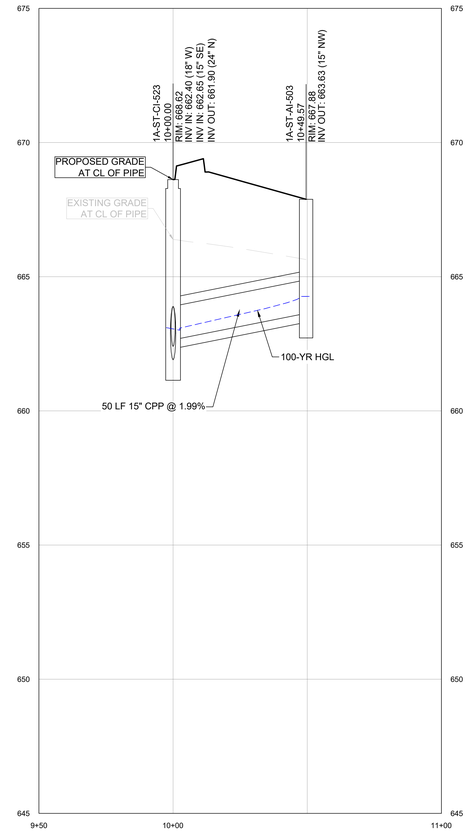

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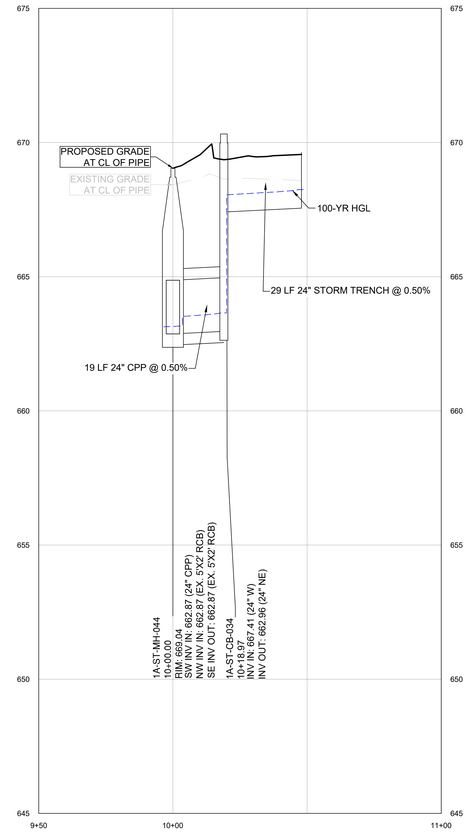

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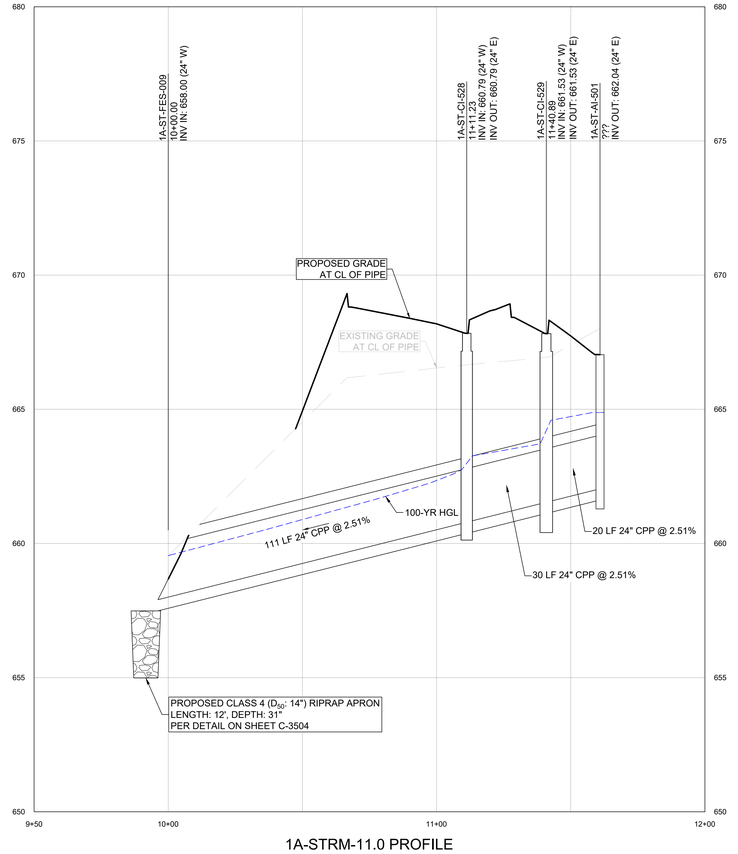

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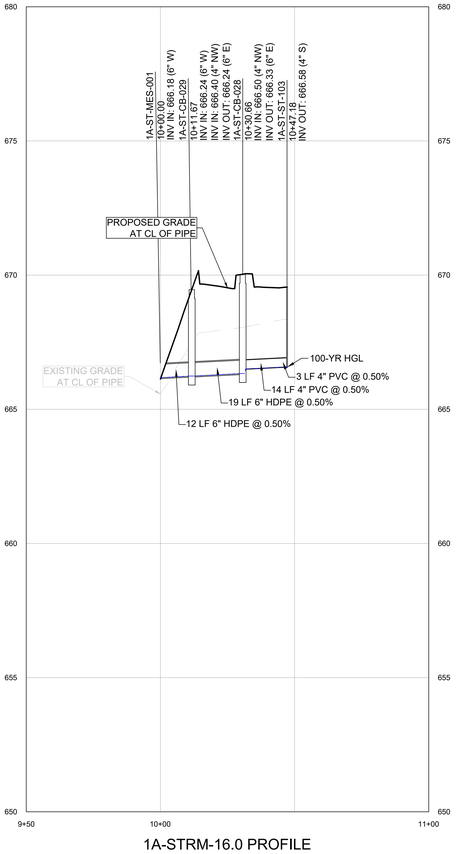

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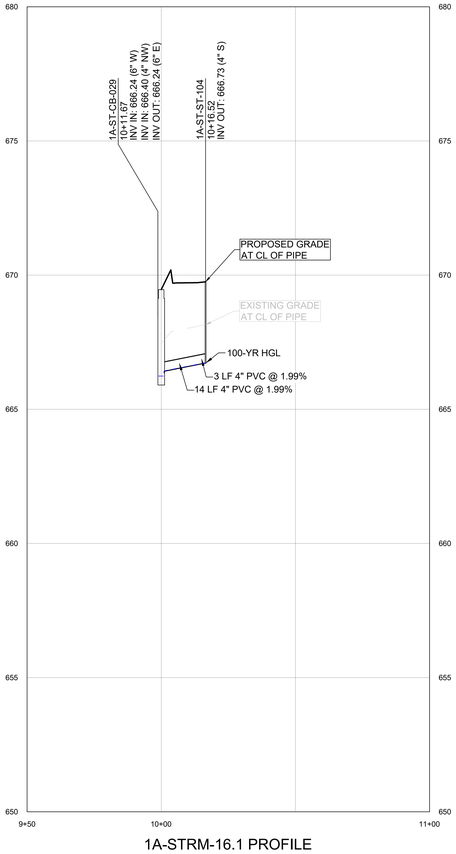

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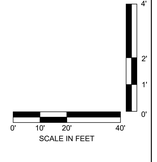

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DEVIN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

STORM SEWER PROFILES

SCALE: AS SHOWN

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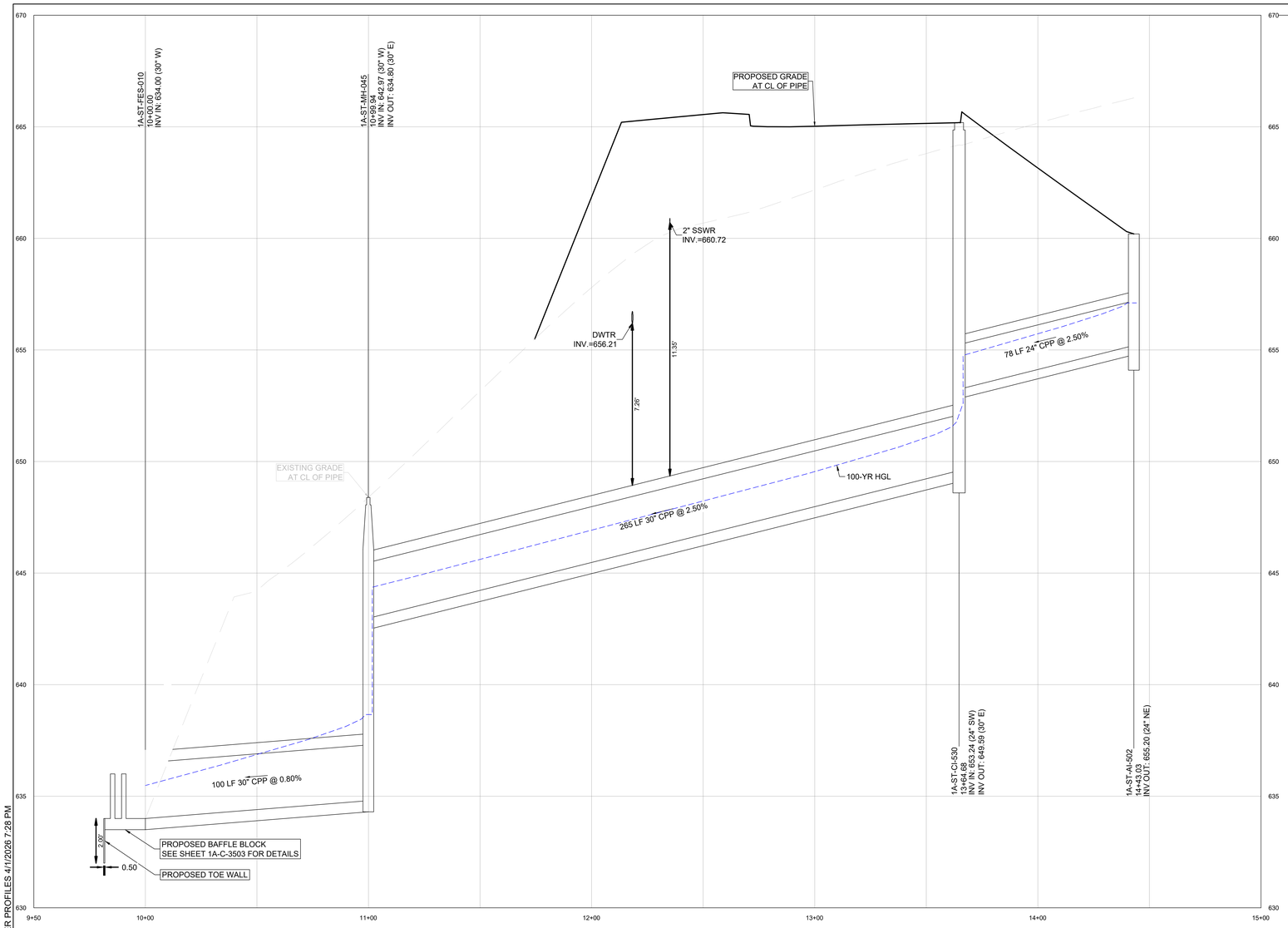

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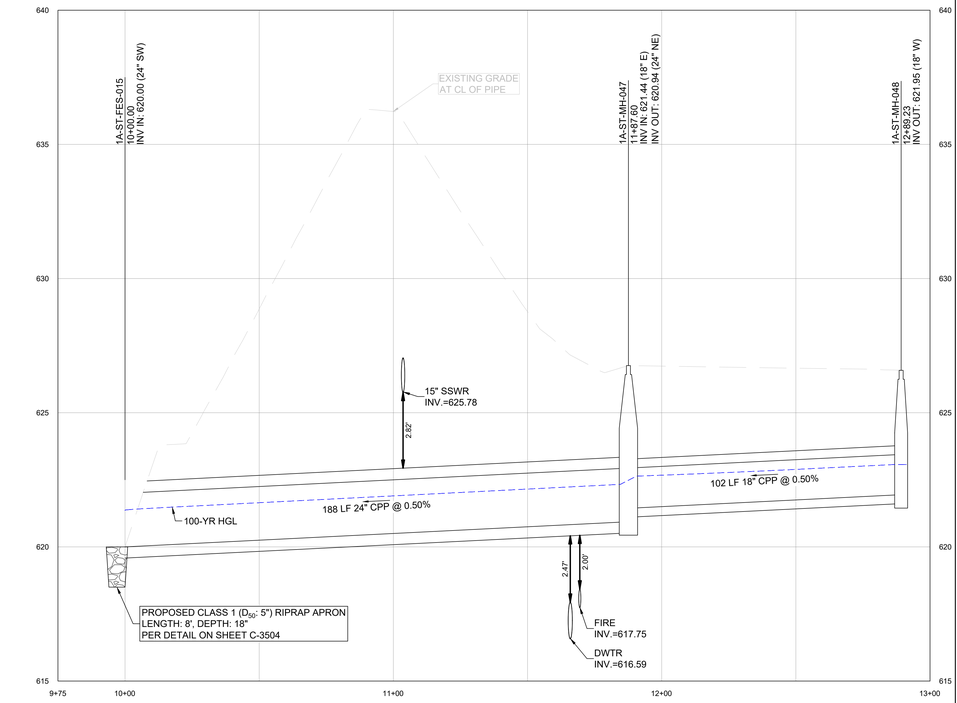

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1A-STRM-14.0 PROFILE

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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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PROJ. NO.: 10434535

STORM SEWER PROFILES
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3426
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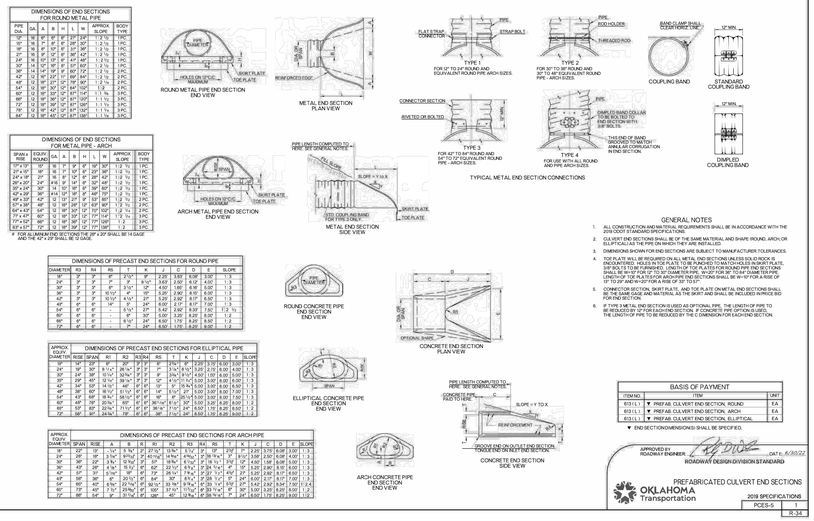


GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. CULVERT END SECTIONS SHALL BE OF THE SAME MATERIAL AND SHAPE ROUND, ARCH OR ELLIPTICAL AS THE PIPE ON WHICH THEY ARE INSTALLED.
3. DIMENSIONS SHOWN FOR END SECTIONS ARE SUBJECT TO MANUFACTURER TOLERANCES.
4. TOE PLATE WILL BE REQUIRED ON ALL METAL END SECTIONS UNLESS SOLID ROCK IS ENCOUNTERED. WHEN SOLID ROCK IS ENCOUNTERED, A SKIRT PLATE SHALL BE USED INSTEAD OF A TOE PLATE. SKIRT PLATES FOR ROUND PIPE END SECTIONS SHALL BE 14×3/8" FOR 12" TO 30" DIAMETER PIPE, 14×1/2" FOR 36" TO 54" DIAMETER PIPE AND 14×5/8" FOR 60" TO 72" DIAMETER PIPE. SKIRT PLATE SECTIONS SHALL BE 14×5" FOR A RISE OF 12" TO 22", AND 14×7" FOR A RISE OF 23" TO 51".
5. CONNECTOR SECTION, SKIRT PLATE, AND TOE PLATE ON METAL END SECTIONS SHALL BE THE SAME GAGE AND MATERIAL AS THE SHEET AND SHALL BE INCLUDED IN THE PRICE BID FOR PIPE.
6. IF PIPE IS METAL END SECTION ISUSED AS OPTIONAL PIPE, THE LENGTH OF PIPE TO BE INSTALLED SHALL BE 12" FOR EACH INCH OF DIAMETER. IF CONCRETE PIPE OPTION IS USED, THE LENGTH OF PIPE TO BE REDUCED BY THE C DIMENSION FOR EACH END SECTION.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
613 (L)	▼ PREFAB. CULVERT END SECTION, ROUND	EA
613 (L)	▼ PREFAB. CULVERT END SECTION, ARCH	EA
613 (L)	▼ PREFAB. CULVERT END SECTION, ELLIPTICAL	EA

▼ END SECTION DIMENSIONS(S) SHALL BE SPECIFIED.

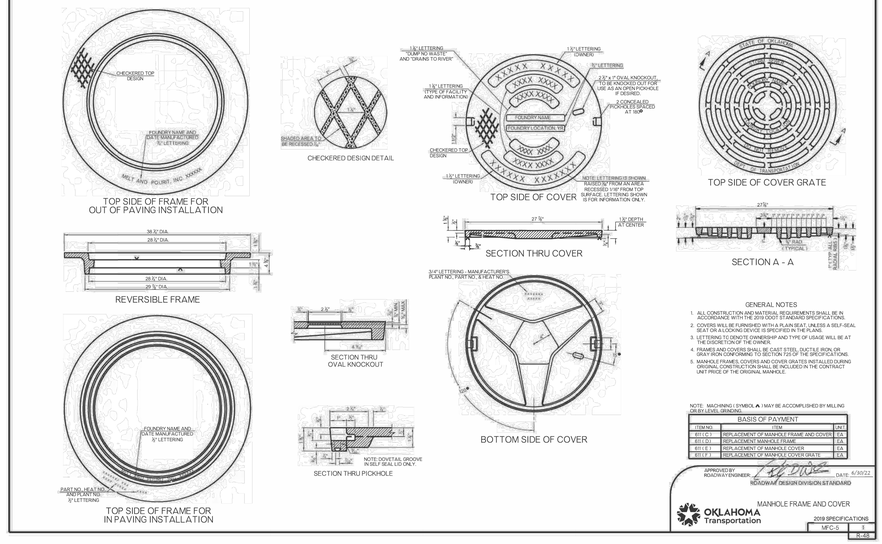
APPROVED BY ROADWAY ENGINEER: DATE: 6/30/22
ROADWAY DESIGN DIVISION STANDARD

OKLAHOMA Transportation

PREFABRICATED CULVERT END SECTIONS

2019 SPECIFICATIONS

PCES-1 | 1 | R-34



GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. COVERS WILL BE FURNISHED WITH A PLAIN SEAT, UNLESS A SELF-SEAL SEAT OR A LOCKING DEVICE IS SPECIFIED IN THE PLANS.
3. USE OF SELF-SEALING COVERS OR LOCKING DEVICES WILL BE AT THE DISCRETION OF THE OWNER.
4. FRAMES AND COVERS SHALL BE CAST STEEL, DUCTILE IRON, OR GRAY IRON CONFORMING TO SECTION 727 OF THE SPECIFICATIONS.
5. MANHOLE FRAMES, COVERS AND COVER GRATES INSTALLED DURING ORIGINAL CONSTRUCTION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE ORIGINAL MANHOLE.

NOTE: MACHINING (SYMBOL) MAY BE ACCOMPLISHED BY MILLING OR BY LEVEL GRINDING.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
611 (C)	REPLACEMENT OF MANHOLE FRAME AND COVER	EA
611 (D)	REPLACEMENT MISMATCH FRAME	EA
611 (E)	REPLACEMENT OF MANHOLE COVER	EA
611 (F)	REPLACEMENT OF MANHOLE COVER GRATE	EA

APPROVED BY ROADWAY ENGINEER: DATE: 6/30/22
ROADWAY DESIGN DIVISION STANDARD

OKLAHOMA Transportation

MANHOLE FRAME AND COVER

2019 SPECIFICATIONS

MFC-5 | 1 | R-45

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR DETAILS OF FRAME AND COVER, SEE THE CURRENT VERSION OF ROADWAY STANDARD(S) C, PRICE BID OF MANHOLE SHALL INCLUDE PAYMENT FOR THESE ITEMS AND ALL OTHER ITEMS AND LABOR NECESSARY TO COMPLETE THE MANHOLE. PRICE BID FOR ADDITIONAL DEPTH SHALL INCLUDE PAYMENT FOR ALL MATERIAL AND LABOR PERTAINING ONLY TO THE ADDITIONAL DEPTH, NECESSARY TO COMPLETE ITS INSTALLATION.
3. SQUARE MANHOLES MAY BE SUBSTITUTED PER THE MANUFACTURER'S RECOMMENDATION. SEE THE CURRENT VERSION OF ROADWAY STANDARD 709A-1 FOR MATERIAL AND INSTALLATION DETAILS.
4. PIPE OPENINGS SHALL NOT BE LOCATED IN A CONE SECTION.
5. THERE SHALL BE A MINIMUM DISTANCE OF 9" BETWEEN AN OPENING AND ANY JOINT.
6. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615 OR EQUIVALENT AREA OF WELDED WIRE REINFORCING CONFORMING TO ASTM A1064 OR EQUIVALENT AREA IN BASE, RISER, CONE, AND TOP SECTION WALLS OF BASE, RISER, AND CONE IN ACCORDANCE WITH ASTM C478.
8. PROVIDE A MINIMUM CLEAR COVER OF 1½" TO REINFORCING STEEL.
9. WALLS OR SLABS WITH A THICKNESS OF 9" OR GREATER REQUIRE A SECONDARY LAYER OF REINFORCING STEEL. PROVIDE AN AREA OF REINFORCING STEEL EQUAL TO 0.11 SQ. IN./ FT EACH WAY IN THE SECONDARY LAYER.
10. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON RISER SHOULDERS, CONICAL TOPS, AND FLAT SLABS. MINIMUM SPIGOT DEPTH IS ¾".
11. MAXIMUM OPENING SHALL BE 4"LARGER THAN OUTSIDE PIPE DIAMETER. REFER TO THE MOST CURRENT VERSION OF ROADWAY DESIGN STANDARD 1605 FOR PIPE CONNECTION MATERIAL.
12. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS SHALL BE SEALED WITH MASTIC ON BOTH INSIDE AND OUTSIDE SECTIONS OR by THE JOINT DEPTH, WHICHEVER IS GREATER. JOINT SEALING SHALL BE INCLUDED IN THE COST OF THE MANHOLE.
13. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
14. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH FIRM AND STABLE FOUNDATION MATERIAL, A MINIMUM 9" THICK LEVELING COURSE SHALL BE PROVIDED BELOW THE BASE AREA OF THE MANHOLE AND EXTEND 6" BEYOND THE BASE AREA. THE LEVELING COURSE SHALL BE CONSIDERED AS PART OF THE MANHOLE AND ANY COST ASSOCIATED WITH THE FOUNDATION AND LEVELING COURSES SHALL BE INCLUDED IN THE PRICE BID OF THE MANHOLE.
15. OPENINGS IN FLAT SLAB TOPS SHALL BE ADDITIONALLY REINFORCED WITH A MINIMUM OF 0.20 SQ. IN. OF REINFORCING STEEL AT 90 DEGREES.
16. REFER TO PROJECT PLAN SHEETS FOR NUMBER, LOCATION, AND SIZE OF PIPE.
17. FLEXURAL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 9" CENTER TO CENTER.
18. PRECAST CONCRETE GRADE RING WALL THICKNESS SHALL BE ½ OF INTERNAL DIAMETER OR 4", WHICHEVER IS GREATER.
19. THE ENGINEER MAY SPECIFY THE USE OF STEPS OR LADDERS AND SHALL CONFORM TO ASTM C478.
20. THE ORIENTATION OF THE SPIGOT IS SHOWN FOR INFORMATIONAL PURPOSES ONLY AND IS AT THE DISCRETION OF THE MANUFACTURER.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
611(A)	SPJ PRECAST CONC RND 4' DIA MANHOLE	EACH
611(A)	SPJ PRECAST CONC RND 5' DIA MANHOLE	EACH
611(A)	SPJ PRECAST CONC RND 6' DIA MANHOLE	EACH
611(B)	SPJ ADDL DEPTH PRECAST RND 4' MANHOLE	VF
611(B)	SPJ ADDL DEPTH PRECAST RND 5' MANHOLE	VF
611(B)	SPJ ADDL DEPTH PRECAST RND 6' MANHOLE	VF

APPROVED BY ROADWAY ENGINEER: DATE: 6/30/22
ROADWAY DESIGN DIVISION STANDARD

OKLAHOMA Transportation

PRECAST ROUND MANHOLE

2019 SPECIFICATIONS

PRM-1 | 1 | R-49

NOTE: ADDITIONAL REINFORCING SHOWN IS AT THE DISCRETION OF THE MANUFACTURER.

NOTE: HDPE PIPE SHOWN, RCP SIMILAR, ALTERNATIVELY, THE MANUFACTURER MAY PROVIDE SDC/TI MEETING ASTM D3350 AND ASTM C923 FOR HDPE OR PP PIPE.

MANHOLE STRUCTURE SIZE SCHEDULE

MANHOLE INSIDE DIAMETER	90° DEFLECTION	135° DEFLECTION	180° DEFLECTION
48"	18"	27"	30"
60"	27"	39"	42"
72"	33"	48"	48"

NOTE: DIAMETER SHOWN IN MANHOLE STRUCTURE SIZE SCHEDULE IS THE NOTIONAL PIPE DIAMETER. TABLE VALUES ARE DETERMINED BY ASSUMING ADJOINING PIPES ARE EQUAL IN DIAMETER AND ARE THE MAXIMUM SIZE ALLOWED FOR ADJOINING PIPES OF EQUAL DIAMETER. PIPES MAY HAVE SMALLER DIAMETERS THAN SHOWN IN THE TABLE AS LONG AS THEY PROVIDE A MINIMUM STRUCTURAL LEG OF 6 INCHES.

FOR STRUCTURES WITH DIFFERENT DEFLECTION ANGLES, PIPE DIAMETERS, OR COMBINATIONS REFER TO THE NATIONAL PRECAST CONCRETE ASSOCIATION MANHOLE SIZING RECOMMENDATIONS AT https://precast.org/wp-content/uploads/2014/05/Precast-concrete-manhole-sizing-recommendations.pdf

CORRUGATED POLYPROPYLENE AND HIGH DENSITY POLYETHYLENE PIPES

STANDARD BEDDING MATERIAL QUANTITIES

PIPE DIAM. (D)	TI STD BED MAT	SINGLE PIPE W WIDTH	STANDARD BEDDING MATERIAL	DOUBLE PIPE W WIDTH	STANDARD BEDDING MATERIAL	TRIPLE PIPE W WIDTH	STANDARD BEDDING MATERIAL	CLEAR SPACE BETWEEN PIPES	SPACE BETWEEN PIPE AND TRENCH WALL
IN.	FT	FT	CY/LF	FT	CY/LF	FT	CY/LF	FEET	FEET
12	2.33	2.50	0.19	5.00	0.37	7.50	0.52	1.00	1.00
15	2.58	2.88	0.23	5.50	0.44	7.75	0.61	1.00	1.00
18	2.83	3.25	0.28	6.00	0.50	8.50	0.70	1.00	1.00
24	3.33	4.00	0.38	7.00	0.63	10.00	0.89	1.00	1.00
30	3.83	4.75	0.49	8.25	0.81	12.00	1.16	1.25	1.00
36	4.33	5.50	0.62	9.50	1.00	14.00	1.46	1.50	1.00
42	4.83	6.25	0.76	10.75	1.21	16.00	1.80	1.75	1.00
48	5.33	7.00	0.92	12.00	1.44	18.00	2.16	2.00	1.00
60	6.33	8.50	1.27	15.00	2.06	22.50	3.10	2.50	1.25

▼ HEIGHT OF STD BEDDING MATERIAL INCLUDES THE BEDDING UNDER PIPE, THE NOMINAL DIAMETER OF THE PIPE, AND 12 INCHES ABOVE TOP OF PIPE.

■ FOR PIPES UNDER PAVEMENT, THE H DIMENSION AND THE STANDARD BEDDING MATERIAL QUANTITY SHALL BE INCREASED TO GO TO THE PAVEMENT. SEE ROADWAY STANDARD 606-1.

▲ SEE MULTIPLE INSTALLATIONS TABLE.

ALLOWABLE PIPE SIZES	
CORRUGATED HIGH DENSITY POLYETHYLENE PIPE, TYPE II (HDPE) ■	CORRUGATED POLYPROPYLENE PIPE, TYPE II (PP) ■
AASHTO M 294	AASHTO M 330
ASTM F2306	ASTM F2881
DIAMETER (INCHES)	DIAMETER (INCHES)
12	12
15	15
18	18
24	24
30	30
36	36
42	42
48	48
60	60

■ SEE "DUAL WALL" TYPE S CONFIGURATION DETAIL

MINIMUM AND MAXIMUM HEIGHT OF COVER FOR CORR. HIGH-DENSITY POLYETHYLENE (HDPE) AND CORR. POLYPROPYLENE (PP) PIPES ●				
PIPE DIAMETER	MIN. HT. OF COVER		MAX. HT. OF COVER	
	NOTE 1	NOTE 2	NOTE 1	NOTE 2
INCHES	FEET	FEET	FEET	FEET
12	1	2	29	50
15	1	2	26	30
18	1	2	26	25
24	1	2	24	25
30	1	2	24	24
36	1	2	24	24
42	1	2	23	23
48	1	2	23	21
60	1	2	23	21

● MINIMUM COVER DEPTH IS TAKEN FROM AASHTO LRFD BRIDGE DESIGN SPEC. 12.6.6.3, AND THE MAXIMUM COVER DEPTH IS TAKEN FROM PLASTIC PIPE INSTITUTE'S HANDBOOK, CHAPTER 7.

INSIDE PIPE DIAMETER	W SPACING
12" TO 42"	1/2 D
24" TO 60"	1/3 D

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. BOTH THE CORRUGATED POLYPROPYLENE (PP) AND CORRUGATED POLYETHYLENE HDPE) PIPES AND STRUCTURES VALUES ARE BASED ON A HL-93 LIVE LOADING NO HYDROSTATIC PRESSURE, AND 120 LBS/CF SOIL WEIGHT.
3. TRENCHING REQUIREMENTS FOR DEPTHS OVER 5 FEET SHALL BE IN ACCORDANCE WITH AND DEFINED BY, O.S.H.A. REGULATIONS, TITLE 29 CFR, PART 1926, SUBPART P - 'EXCAVATIONS', STANDARDS 1926. 650, 1926.651 AND 1926.652.
4. IN THE EVENT LOADS IN EXCESS OF HL-93 ARE TO BE OPERATED OVER OR ADJACENT TO THE PIPE INSTALLATION DURING THE CONSTRUCTION PHASE, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A MINIMUM OF 4 FEET OF COVER OVER THE PIPE AT WHEEL OR TRACK PATHS.
5. PROPER INSTALLATION PRACTICE MUST BE ADHERED TO AS SHOWN ON ROADWAY STANDARD R66-1 AND AS DESIGNATED IN ASTM D2321. THE PAY ITEMS OF TRENCH EXCAVATION AND STANDARD BEDDING WILL BE REQUIRED FOR THESE PIPES WHEN THEY ARE INSTALLED AS CROSS DRAINS.
6. IN NO CASE SHALL A PIPE INSTALLATION, SUBJECT TO SUDDEN FLOW DEVELOPMENT, BE LEFT WITHOUT SUFFICIENT BACKFILL TO RESTRAIN THE CONDUIT AND PREVENT JOINT SEPARATION AND/OR PIPING DUE TO PHYSICALLY RESTRAINING THE CONDUIT MAY BE USED TO AUGMENT OR REPLACE THIS IMMEDIATE BACKFILL REQUIREMENT.
7. ANY EXCESS EXCAVATION NOT USED FOR BACKFILL WILL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF IN A MANNER APPROVED BY THE ENGINEER.
8. JOINTS IN THERMOPLASTIC PIPES SHALL CONFORM TO THE REQUIREMENTS OF ASTM D3212. SPIGOTS SHALL HAVE WATER TIGHT GASKETS MEETING THE REQUIREMENTS OF ASTM F477.
9. FOUNDATION SHALL BE MADE OF STABLE IN-SITU SOIL. IF THE FOUNDATION AREA IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER.
10. CORRUGATED HIGH-DENSITY POLYETHYLENE PIPE (HDPE) SHALL HAVE A MINIMUM COVER OVER PIPE OF 1 FOOT. THE MINIMUM COVER OVER POLYPROPYLENE PIPE (PP) IS 2 FEET. SEE ROADWAY STANDARD R66-1 FOR MORE DETAILS OF BOTH PIPES.
11. SEGMENTS OF NON-FLAMMABLE PIPE ARE NO LONGER REQUIRED, HOWEVER, METAL OR CONCRETE END TREATMENTS SHALL BE PROVIDED AND PAID FOR AS A SEPARATE PAY ITEM.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
613 (E)	CORRUGATED POLYETHYLENE PIPE	LF
613 (EE)	CORRUGATED POLYPROPYLENE PIPE	LF
613 (S)	ST AND ARD BEDDING MATERIAL, CLASS S	CY
613 (T)	ST AND ARD BEDDING MATERIAL, CLASS C	CY
613 (V)	TRENCH EXCAVATION	CY

APPROVED BY ROADWAY ENGINEER: DATE: 12/20/2024
ROADWAY DESIGN DIVISION STANDARD

OKLAHOMA Transportation

THERMOPLASTIC CULVERT INSTALLATION

2019 SPECIFICATIONS

TCI-1 | 0

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. THE THICKNESS OF BEDDING MATERIAL BELOW PIPE CONDUIT VARIES ACCORDING TO THE TYPE OF PIPE BEING INSTALLED. SEE ROADWAY STANDARDS CC-1, TCI-1 AND MC-1.
3. NATIVE SOIL FOR BACKFILL, TO BE COMPACTED IN ACCORDANCE WITH SECTION 203.04 OF THE STANDARD SPECIFICATIONS.
4. A BETTER CLASS OF BEDDING MAY BY SUBSTITUTED FOR THE NEXT LOWER CLASS. EXAMPLE: CLASS B STANDARD BEDDING CAN BE USED IN LIEU OF CLASS B STANDARD BEDDING.
5. FOR TRENCH WIDTH, WIDTH, BEDDING HEIGHT, H, PIPE DATA, MULTIPLE PIPE SPACING & BEDDING DATA, SEE ROADWAY STANDARDS CC-1, TCI-1, MC-1, AND MC-3.
6. DESIGN TABLE WILL DISPLAY 'NA' WHEN THE TYPE OF PIPE IS NOT ALLOWED.
7. STANDARD BEDDING CLASS D MATERIAL(S) (ALTERNATE 1) WILL BE CONSIDERED AS INCIDENTAL AND NOT BE PAID FOR SEPARATELY. COST FOR BORROW OR FILL MATERIAL, NEEDED FOR ALTERNATE 2, WILL BE INCLUDED IN THE PRICE OF THE PIPE.
8. PIPE MATERIALS & VPRODUCT(S) NOT SHOWN IN THE DESIGN TABLE WILL BE EVALUATED AND APPROVED ON A CASE BY CASE BASIS.
9. ALL TEMPORARY PIPES SHALL HAVE CLASS D BEDDING UNLESS OTHERWISE SHOWN IN THE PLANS.
10. BEDDING MATERIAL CLASSES B, C AND D, SHALL BE PLACED IN 6" LAYERS. CLASSES C AND D BEDDING SHALL BE COMPACTED TO 95% MAXIMUM DENSITY, AND CLASS B SHALL BE COMPACTED TO 98% STANDARD DENSITY. ALL COMPACTION OF BEDDING MATERIAL SHALL BE DONE USING HAND-OPERATED EQUIPMENT ONLY.
11. ▼ WHEN DIRECTIONAL INSTALLATION IS UNDER PAVING, IN LIEU OF BACKFILLING WITH NATIVE SOIL, BACKFILL WITH BEDDING MATERIAL ALL THE WAY TO THE PAVEMENT FOR ALL PIPES EXCEPT REINFORCED CONCRETE PIPE. THE 5:1 SIDE SLOPE OF HEIGHT FOR REINFORCED CONCRETE PIPE SHALL GO TO THE SPRINGLINE OF PIPE. NO MATTER IF PIPE IS UNDER PAVEMENT OR NOT, SEE ROADWAY STANDARDS CC-1 FOR DETAILS.
12. THE USE OF AN ALTERNATE PIPE AND ITS CORRESPONDING BEDDING MATERIAL WILL BE ACCEPTABLE PROVIDED THE CRITERIA IN THE DESIGN TABLE IS MET.
13. CORRUGATED POLYPROPYLENE PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
613 (R)	STANDARD BEDDING MATERIAL, CLASS A	CY
613 (S)	STANDARD BEDDING MATERIAL, CLASS B	CY
613 (T)	STANDARD BEDDING MATERIAL, CLASS C	CY

PIPE BEDDING CLASS/DESIGN TABLE							
	■ UNDER PAVING			OUTSIDE PAVING			
TYPE OF PIPE	CROSS DRAIN (>48 OR ADT > 6000 VPD)	CROSS DRAIN (OTHER)	STORM SEWER (>48 OR ADT > 6000 VPD)	STORM SEWER (OTHER)	CROSS DRAIN	SIDE DRAIN	STORM SEWER
REINFORCED CONCRETE PIPE	B	C	B	C	C	D	C
CORRUGATED GALV. STEEL PIPE (CGSP)	NA	B	NA	B	C	D	C
MILL (POLYMER) PRECOATED CGSP	NA	B	NA	B	C	D	C
CORRUGATED GALV. STRUCT. PLATE	NA	B	NA	B	C	D	C
ALUMINIZED (ALUMINUM COATED) TYPE II CSP	NA	B	NA	B	C	D	C
CORRUGATED HIGH DENSITY POLYETHYLENE / PVC	NA	A	NA	A	B	B	B
POLYVINYL CHLORIDE (SC 40/80 PVC)	NA	NA	NA	NA	NA	NA	NA
CORRUGATED POLYPROPYLENE PIPE (PP) ▲	B	B	B	B	C	D	C

■ WHEN THERE IS ANY POSSIBILITY OF THE PAVEMENT BEING WIDENED DURING THE LIFE OF THE DRAINAGE STRUCTURE, THE BEDDING SHALL MEET THE 'UNDER PAVING' SECTION CRITERIA FOR THE FULL EXTENT OF ANY ANTICIPATED EXPANSION TO THE FACILITY.

▲ BACKFILL WITH A MINIMUM OF TWO (2) FEET OF APPROVED BACKFILL MATERIAL.

APPROVED BY ROADWAY ENGINEER: DATE: 12/20/2024
ROADWAY DESIGN DIVISION STANDARD

OKLAHOMA Transportation

PIPE BEDDING AND BACKFILL

2019 SPECIFICATIONS

PBB-1 | 3 | R-XX

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

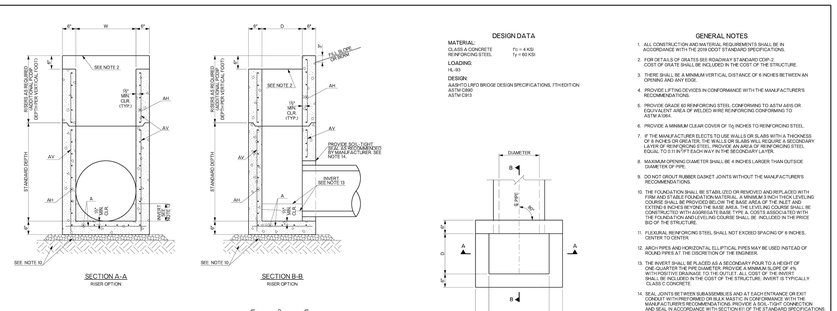
STORM SEWER DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3500

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACCADocs\Kimley-Horn\0600057900. CYL\Project Files\00. Civil\SPS\03. Production-DWGS\CYL-1A-C-3500-STORM SEWER DETAILS 7/14/2025 1:20 PM



REINFORCING STEEL VALUES LISTED IN "SCHEDULE OF DIMENSIONS AND REINFORCING STEEL" ARE MINIMUM VALUES. STRUCTURES THAT PROVIDE VALUES LARGER THAN THOSE SHOWN WILL BE CONSIDERED ACCEPTABLE.

DESIGN DATA

MATERIAL
CLASS A CONCRETE — f'_c = 4 KSI
REINFORCING STEEL — f_y = 60 KSI

LOADING
HL-93

DESIGN
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
ASTM C850
ASTM C913

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR DETAILS OF GRATES SEE ROADWAY STANDARD CDP-2. COST OF GRATE SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
3. THERE SHALL BE A MINIMUM VERTICAL DISTANCE OF 6 INCHES BETWEEN AN OPENING AND ANY EDGE.
4. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615 OR EQUIVALENT AREA OF WELDED WIRE REINFORCING CONFORMING TO ASTM A1064.
6. PROVIDE A MINIMUM CLEAR COVER OF 1½ INCHES TO REINFORCING STEEL.
7. IF THE MANUFACTURER ELECTS TO USE WALLS OR SLABS WITH A THICKNESS OF 8 INCHES OR GREATER, THE WALLS OR SLABS WILL REQUIRE A SECONDARY LAYER OF REINFORCEMENT. PROVIDE AN AREA OF REINFORCING STEEL EQUAL TO 0.11 IN²/FT EACH WAY IN THE SECONDARY LAYER.
8. MAXIMUM OPENING DIAMETER SHALL BE 4 INCHES LARGER THAN OUTSIDE DIAMETER OF PIPE.
9. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
10. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH FIRM AND STABLE FOUNDATION MATERIAL. A MINIMUM 3 INCH THICK LEVELING COURSE OF CLASS C CONCRETE SHALL BE PLACED AS A SECONDARY POUR TO EXTEND 6 INCHES BEYOND THE BASE AREA. THE LEVELING COURSE SHALL BE CONSTRUCTED WITH AGGREGATE BASE TYPE A. COSTS ASSOCIATED WITH THE FOUNDATION AND LEVELING COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE.
11. FLEXURAL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 6 INCHES, CENTER TO CENTER.
12. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES MAY BE USED INSTEAD OF ROUND PIPES AT THE DISCRETION OF THE ENGINEER.
13. THE INVERT SHALL BE FLARED AS A SECONDARY POUR TO A HEIGHT OF ONE-QUARTER THE PIPE DIAMETER. PROVIDE A MINIMUM SLOPE OF 4% WITH POSITIVE DRAINAGE TO THE OUTLET. ALL COST OF THE INVERT SHALL BE INCLUDED IN THE COST OF THE STRUCTURE. INVERT IS TYPICALLY CLASS C CONCRETE.
14. SEAL JOINTS BETWEEN SUBASSEMBLIES AND AT EACH ENTRANCE OR EXIT PIPE. SEALANT SHALL BE INSTALLED USING THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE A SOIL-TIGHT CONNECTION AND SEAL IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. JOINT SEALING SHALL BE INCLUDED IN THE COST OF THE INLET.
15. MAXIMUM DEPTH OF DROP INLETS IS 15 FEET. ANY DROP INLET WHICH IS GREATER THAN 15 FEET IN DEPTH SHALL BE A SPECIAL DESIGN AS SHOWN IN THE PLANS AND SHOULD NOT FOLLOW THIS STANDARD.
16. ALL MATERIALS AND LABOR INCLUDED IN COST OF PRECAST INLET.
17. EACH INLET DESIGN NUMBER HAS A STANDARD DEPTH, TO WHICH THEY SHOULD BE MADE. ANY ADDITIONAL DEPTH ABOVE THE STANDARD DEPTH SHALL BE PAID AS "ADDL DEPTH IN PRECAST INLET CCO ROP DES. ▲i".

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

DESIGN NO.	DIAMETER	STANDARD DEPTH	D	W	A BARS (IN²/FT) DEPTH													AV BARS (IN²/FT) DEPTH	
					3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	ALL DEPTHS
1A	18"	3'-10"	2'-0"	3'-0"	0.16	0.19	0.22	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.11
1B			3'-0"	3'-0"	0.17	0.20	0.25	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.11
2	24"	3'-10"	2'-0"	4'-0"	0.16	0.19	0.22	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.11
3	30"	4'-6"	2'-0"	5'-0"	0.19	0.23	0.30	0.12	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.11
4	36"	5'-0"	2'-0"	5'-0"	0.19	0.23	0.30	0.12	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.11

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
611(2)	PRECAST INLET (CDI ROP DES. ▲i)	EA.
611(4)	ADDL DEPTH IN PRECAST INLET (CDI ROP DES. ▲i)	VF

▲i SPECIFY INLET DESIGN NUMBER.

APPROVED BY ROADWAY ENGINEER — DATE: 4/1/2025

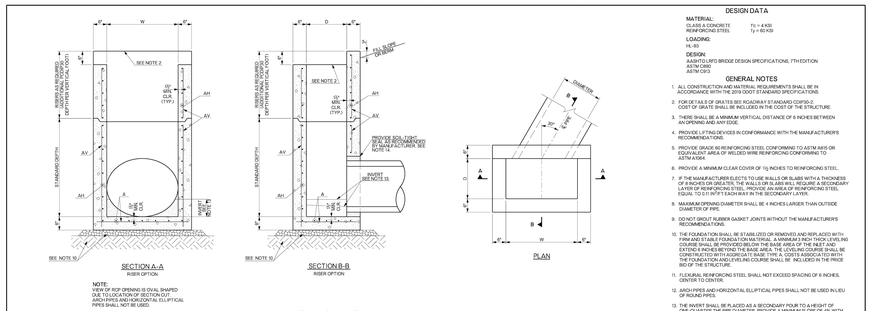
ROADWAY DESIGN DIVISION STANDARD

PRECAST CONCRETE DROP INLETS FOR 18" TO 36" R.C. PIPES

OKLAHOMA Transportation

2019 SPECIFICATIONS

PCDP	0
	R-55



NOTE:
VIEW OF BOP OPENING IS OVAL SHAPED DUE TO LOCATION OF SECTION CUT. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES SHALL NOT BE USED.

NOTE:
VIEW OF BOP OPENING IS OVAL SHAPED DUE TO LOCATION OF SECTION CUT. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES SHALL NOT BE USED.

REINFORCING STEEL VALUES LISTED IN "SCHEDULE OF DIMENSIONS AND REINFORCING STEEL" ARE MINIMUM VALUES. STRUCTURES THAT PROVIDE VALUES LARGER THAN THOSE SHOWN WILL BE CONSIDERED ACCEPTABLE.

DESIGN DATA

MATERIAL
CLASS A CONCRETE — f'_c = 4 KSI
REINFORCING STEEL — f_y = 60 KSI

LOADING
HL-93

DESIGN
AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION
ASTM C850
ASTM C913

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FOR DETAILS OF GRATES SEE ROADWAY STANDARD CDP2S-2. COST OF GRATE SHALL BE INCLUDED IN THE COST OF THE STRUCTURE.
3. THERE SHALL BE A MINIMUM VERTICAL DISTANCE OF 6 INCHES BETWEEN AN OPENING AND ANY EDGE.
4. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. PROVIDE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM A615 OR EQUIVALENT AREA OF WELDED WIRE REINFORCING CONFORMING TO ASTM A1064.
6. PROVIDE A MINIMUM CLEAR COVER OF 1½ INCHES TO REINFORCING STEEL.
7. IF THE MANUFACTURER ELECTS TO USE WALLS OR SLABS WITH A THICKNESS OF 8 INCHES OR GREATER, THE WALLS OR SLABS WILL REQUIRE A SECONDARY LAYER OF REINFORCEMENT. PROVIDE AN AREA OF REINFORCING STEEL EQUAL TO 0.11 IN²/FT EACH WAY IN THE SECONDARY LAYER.
8. MAXIMUM OPENING DIAMETER SHALL BE 4 INCHES LARGER THAN OUTSIDE DIAMETER OF PIPE.
9. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT THE MANUFACTURER'S RECOMMENDATIONS.
10. THE FOUNDATION SHALL BE STABILIZED OR REMOVED AND REPLACED WITH FIRM AND STABLE FOUNDATION MATERIAL. A MINIMUM 3 INCH THICK LEVELING COURSE OF CLASS C CONCRETE SHALL BE PLACED AS A SECONDARY POUR TO EXTEND 6 INCHES BEYOND THE BASE AREA. THE LEVELING COURSE SHALL BE CONSTRUCTED WITH AGGREGATE BASE TYPE A. COSTS ASSOCIATED WITH THE FOUNDATION AND LEVELING COURSE SHALL BE INCLUDED IN THE PRICE BID OF THE STRUCTURE.
11. FLEXURAL REINFORCING STEEL SHALL NOT EXCEED SPACING OF 6 INCHES, CENTER TO CENTER.
12. ARCH PIPES AND HORIZONTAL ELLIPTICAL PIPES SHALL NOT BE USED IN LIEU OF ROUND PIPES.
13. THE INVERT SHALL BE PLACED AS A SECONDARY POUR TO A HEIGHT OF ONE-QUARTER THE PIPE DIAMETER. PROVIDE A MINIMUM SLOPE OF 4% WITH POSITIVE DRAINAGE TO THE OUTLET. ALL COST OF THE INVERT SHALL BE INCLUDED IN THE COST OF THE STRUCTURE. INVERT IS TYPICALLY CLASS C CONCRETE.
14. SEAL JOINTS BETWEEN SUBASSEMBLIES AND AT EACH ENTRANCE OR EXIT PIPE. SEALANT SHALL BE INSTALLED USING THE MANUFACTURER'S RECOMMENDATIONS. PROVIDE A SOIL-TIGHT CONNECTION AND SEAL IN ACCORDANCE WITH SECTION 611 OF THE STANDARD SPECIFICATIONS. JOINT SEALING SHALL BE INCLUDED IN THE COST OF THE INLET.
15. MAXIMUM DEPTH OF DROP INLETS IS 15 FEET. ANY DROP INLET WHICH IS GREATER THAN 15 FEET IN DEPTH SHALL BE A SPECIAL DESIGN AS SHOWN IN THE PLANS AND SHOULD NOT FOLLOW THIS STANDARD.
16. ALL MATERIALS AND LABOR INCLUDED IN COST OF PRECAST INLET.

SCHEDULE OF DIMENSIONS AND REINFORCING STEEL

DESIGN NO.	DIAMETER	STANDARD DEPTH	D	W	A BARS (IN²/FT) DEPTH													AV BARS (IN²/FT) DEPTH	
					3'-0"	4'-0"	5'-0"	6'-0"	7'-0"	8'-0"	9'-0"	10'-0"	11'-0"	12'-0"	13'-0"	14'-0"	15'-0"	ALL DEPTHS
1A	18"	3'-10"	2'-0"	3'-0"	0.16	0.19	0.22	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.11
1B			3'-0"	3'-0"	0.17	0.20	0.25	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.13	0.11
2	24"	3'-10"	2'-0"	4'-0"	0.16	0.19	0.22	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.11
3	30"	4'-6"	2'-0"	5'-0"	0.19	0.23	0.28	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.11
4	36"	5'-0"	2'-0"	5'-0"	0.19	0.23	0.30	0.12	0.13	0.15	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.11

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
611(2)	PRECAST INLET (CDI 309K ROP DES. ▲i)	EA.
611(4)	ADDL DEPTH IN PRECAST INLET (CDI 309K ROP DES. ▲i)	VF

▲i SPECIFY INLET DESIGN NUMBER.

APPROVED BY ROADWAY ENGINEER — DATE: 4/1/2025

ROADWAY DESIGN DIVISION STANDARD

PRECAST CONCRETE DROP INLETS FOR 30 DEG. SKEW 18" TO 36" R.C. PIPES

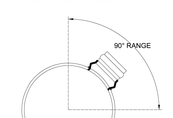
OKLAHOMA Transportation

2019 SPECIFICATIONS

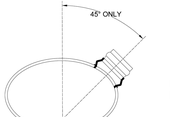
PCDP30	0
	R-56

INSERTA TEE® INTO CONCRETE PIPE APPLICATIONS

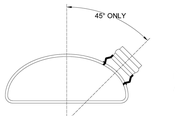
INSERTA TEE INTO CIRCULAR CONCRETE PIPE



For circular pipe, installation angle of Inserta Tee can range anywhere between 0° and 90°, with typical installations at a 45° angle as seen in detail above.



INSERTA TEE INTO ELLIPTICAL CONCRETE PIPE



INSERTA TEE INTO ARCHED CONCRETE PIPE

For elliptical and arched pipe, installation angle must be at 45° as seen in details above.

LATERAL SIZING FROM 2" THROUGH 24" (REFERENCE STD-1104 THROUGH STD-1110 FOR HUB TYPES). INSERTA TEE FITTING SHALL BE INSTALLED USING THE RECOMMENDED INSERTA TEE HOLE SAW. REFERENCE STD-1102 FOR MORE INFORMATION.

NOTE: FOR INSTALLATION INSTRUCTIONS, REFER TO DETAIL STD-1100. FOR PROTRUSION INFORMATION, REFER TO DETAIL STD-1101. FOR HOLE SAW INFORMATION, REFER TO DETAIL STD-1102.

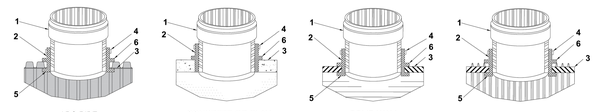
ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS OF ADS PRODUCTS AND INSTALLATION OF THOSE PRODUCTS ONLY. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

DRAWING NUMBER	STD-1114

4640 TRUEMAN BLVD HILLIARD, OH 43026

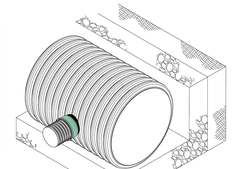
NAME OF:	HMC
DATE:	07/19/23
CHK:	ENG
SCALE:	NTS
REV:	1

INSERTA TEE® CONNECTION DETAILS



ADS PIPE | CONCRETE OR CLAY | SOLID WALL | PROFILE WALL

PART #	DESCRIPTION
1	PVC hub adapter which is driven into the center of the rubber sleeve after the rubber sleeve is in the hole.
2	Complete rubber sleeve consisting of ASTM F 477 specifications.
3	Mainline pipe wall where branch line is connected.
4	Stainless steel band, put on above rubber segment as an added precaution.
5	Rubber segment which is molded into the rubber sleeve. This prevents snap out on the inside of the drilled hole (plastic pipe only) and helps hold the fitting in place, not creating the seal.
6	Rubber segment which is molded into the rubber sleeve. This prevents the rubber sleeve from going through the drilled hole when PVC hub is being driven into the rubber sleeve.



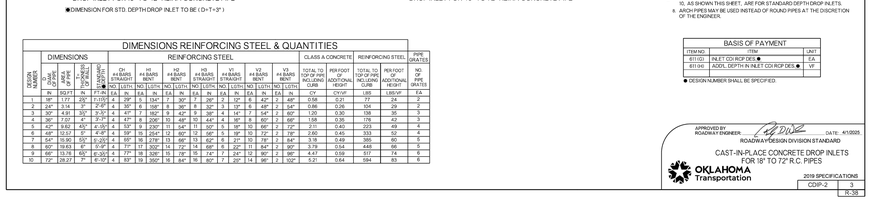
Note: Watertight seal is accomplished when PVC hub is driven into rubber sleeve causing the rubber sleeve to compress between pipe wall and PVC hub.

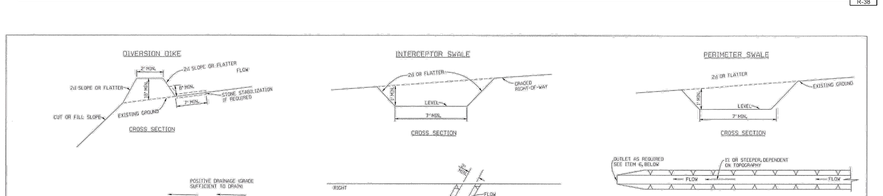
ADVANCED DRAINAGE SYSTEMS, INC ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS OF ADS PRODUCTS AND INSTALLATION OF THOSE PRODUCTS ONLY. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

DRAWING NUMBER	STD-1123

4640 TRUEMAN BLVD HILLIARD, OH 43026

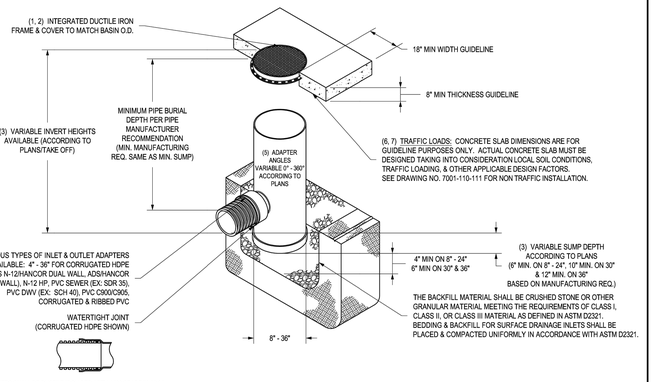
NAME OF:	HMC
DATE:	07/4/23
CHK:	ENG
SCALE:	NTS
REV:	1





| DIMENSIONS REINFORCING STEEL & QUANTITIES | | | | | | | | | | | | |

NYLOPLAST DRAIN BASIN WITH SOLID COVER



1 - 8" - 30" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" SOLID COVERS FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" SOLID COVERS SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" SOLID COVERS ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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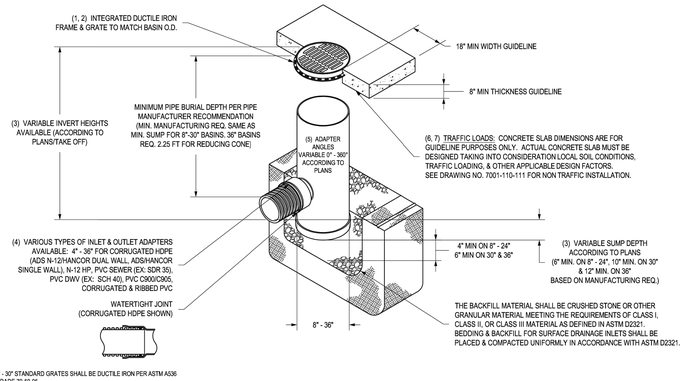
DRAWN BY	EBC	MATERIAL	
DATE	09-14-07		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1
DWG NO.	7001-110-256		REV E

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH SOLID COVER
QUICK SPEC INSTALLATION DETAIL

NYLOPLAST DRAIN BASIN WITH STANDARD GRATE



1 - 8" - 30" STANDARD GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05. 8" & 10" STANDARD GRATES FIT DIRECTLY ONTO DRAIN BASINS WITH THE USE OF A PVC BODY TOP. SEE DRAWING NO. 7001-110-045.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 36").
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - 12" - 30" STANDARD GRATES SHALL MEET H-20 LOAD RATING.
7 - 8" & 10" STANDARD GRATES ARE RATED FOR LIGHT DUTY APPLICATIONS ONLY; NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATING.

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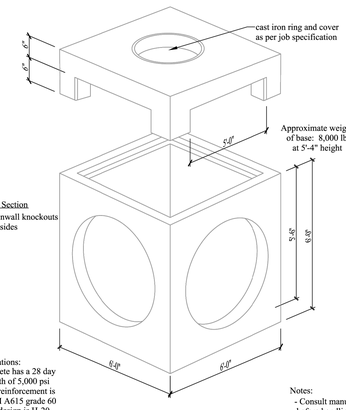
DRAWN BY	EBC	MATERIAL	
DATE	1-23-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	06-12-18		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1
DWG NO.	7001-110-144		REV J

ADS Nyloplast
3130 VERONA AVE
BUFORD, GA 30518
PHN (770) 932-2443
FAX (770) 932-2490
www.nyloplast-us.com

TITLE: DRAIN BASIN WITH STANDARD GRATE
QUICK SPEC INSTALLATION DETAIL

5' x 5' x var 4-Way Inlet



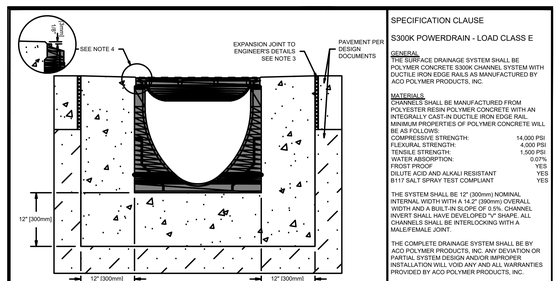
Specifications:
- Concrete has a 28 day strength of 5,000 psi
- Steel reinforcement is ASTM A615 grade 60
- Load design is H-20

Notes:
- Consult manufacturer before handling

Capital Precast

CAPITAL PRECAST, INC.
6905 SOUTH OLD BASTROP HWY
SAN MARCOS, TEXAS 78666
PH. (830) 606-6200

FOR	5' x 5' x var 4-Way Inlet
JOB	
DRAWN	RW
DATE	12/1/2015
Rev. No.	
SHEET	1 OF 1
FILE	catalog/areasinlets/5x5 area inlet



NOTES:
1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. ENGINEERING ADVICE MAY BE REQUIRED.
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE THE TOP OF THE CHANNEL EDGE.
5. CONCRETE BASE THICKNESS SHOULD MATCH SLAB THICKNESS. ENGINEERING ADVICE MAY BE REQUIRED TO DETERMINE PROPER LOAD CLASS.
6. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

SPECIFICATION CLAUSE

S300K POWERDRAIN - LOAD CLASS E

GENERAL
THE SURFACE DRAINAGE SYSTEM SHALL BE POLYMER CONCRETE S300K CHANNEL SYSTEM WITH DUCTILE IRON EDGE RAILS AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE WITH AN INTEGRALLY CAST-IN DUCTILE IRON EDGE RAIL. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:

COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B117 SALT SPRAY TEST COMPLIANT	YES

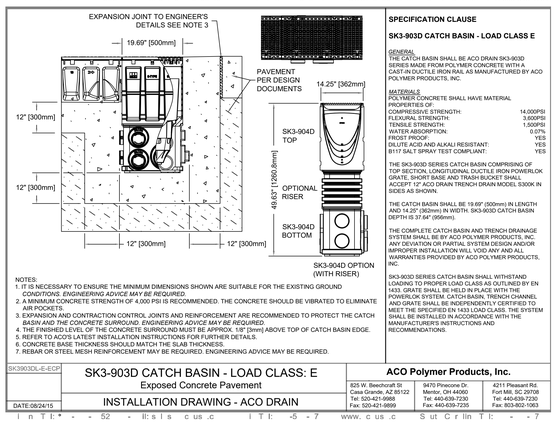
THE SYSTEM SHALL BE 12" (300mm) NOMINAL INTERNAL WIDTH WITH A 14.2" (390mm) OVERALL WIDTH AND A BUILT-IN SLOPE OF 0.5%. CHANNEL INVERT SHALL HAVE DEVELOPED "V" SHAPE. ALL CHANNELS SHALL BE INTERLOCKING WITH A MALE/FEMALE JOINT.

THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE TYPE SHALL BE APPROPRIATE TO MEET THE SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SHALL BE SECURED USING 'POWERLOK' BOLTLESS LOCKING SYSTEM. CHANNEL AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

S03-E-ECP	S300K - POWERDRAIN - LOAD CLASS: E Exposed Concrete Pavement	ACO Polymer Products, Inc.
DATE: 08/25/15	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcroft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899 9470 Pinecone Dr Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235 4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

In TI: - - 552 - II:sis cus.c ITI: -5 3- 7 www.cus.cm St Crlin Tf: 800-543-4764



NOTES:
1. IT IS NECESSARY TO ENSURE THE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR THE EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. A MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. THE CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT THE CATCH *BASIN AND THE CONCRETE SURROUND. ENGINEERING ADVICE MAY BE REQUIRED.*
4. THE FINISHED LEVEL OF THE CONCRETE SURROUND MUST BE APPROX. 1/8" [3mm] ABOVE TOP OF CATCH BASIN EDGE.
5. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.
6. CONCRETE BASE THICKNESS SHOULD MATCH THE SLAB THICKNESS.
7. REBAR OR STEEL MESH REINFORCEMENT MAY BE REQUIRED. ENGINEERING ADVICE MAY BE REQUIRED.

SPECIFICATION CLAUSE

SK3-903D CATCH BASIN - LOAD CLASS E

GENERAL
THE CATCH BASIN SHALL BE ACO DRAIN SK3-903D SERIES MADE FROM POLYMER CONCRETE WITH A CAST-IN DUCTILE IRON RAIL AS MANUFACTURED BY ACO POLYMER PRODUCTS, INC.

MATERIALS
POLYMER CONCRETE SHALL HAVE MATERIAL PROPERTIES OF:

COMPRESSIVE STRENGTH:	14,000PSI
FLEXURAL STRENGTH:	3,600PSI
TENSILE STRENGTH:	1,500PSI
WATER ABSORPTION:	0.07%
FROST PROOF:	YES
DILUTE ACID AND ALKALI RESISTANT:	YES
B117 SALT SPRAY TEST COMPLIANT:	YES

THE SK3-903D SERIES CATCH BASIN COMPRISING OF TOP SECTION, LONGITUDINAL DUCTILE IRON POWERLOK GRATE, SHORT BASE AND TRASH BUCKET SHALL ACCEPT 12" ACO DRAIN TRENCH DRAIN MODEL S300K IN SIDES AS SHOWN.

THE CATCH BASIN SHALL BE 19.69" (500mm) IN LENGTH AND 14.25" (362mm) IN WIDTH. SK3-903D CATCH BASIN DEPTH IS 37.64" (956mm).

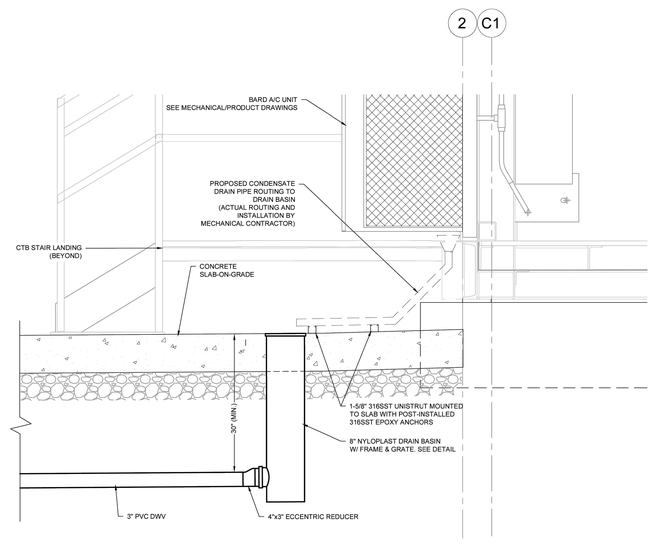
THE COMPLETE CATCH BASIN AND TRENCH DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

SK3-903D SERIES CATCH BASIN SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUTLINED BY EN 1433. GRATE SHALL BE HELD IN PLACE WITH THE POWERLOK SYSTEM. CATCH BASIN, TRENCH CHANNEL AND GRATE SHALL BE INDEPENDENTLY CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD CLASS. THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.

SK3903DL-E-ECP	SK3-903D CATCH BASIN - LOAD CLASS: E Exposed Concrete Pavement	ACO Polymer Products, Inc.
DATE: 08/24/15	INSTALLATION DRAWING - ACO DRAIN	825 W. Beechcroft St Casa Grande, AZ 85122 Tel: 520-421-9988 Fax: 520-421-9899 9470 Pinecone Dr. Mentor, OH 44060 Tel: 440-639-7230 Fax: 440-639-7235 4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 440-639-7230 Fax: 803-802-1063

In TI:* - - 52 - II:sis cus.c ITI: -5 - 7 www.cus.c Sut Crlin T I: - - 7

1 / - ACO SK3-903D CATCH BASIN - LOAD CLASS E
NTS



2 / - DRAIN BASIN AT BARD A/C UNIT DISCHARGE
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEAN RANDALL OKLAHOMA
04/09/2026

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NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

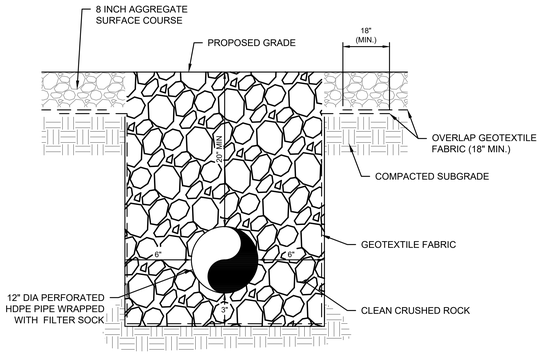
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

STORM SEWER DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3502
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

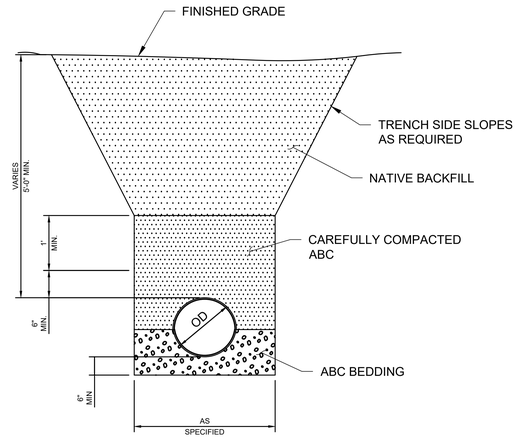


PROFILE

NOTES:

1. TIE ALL UNDERDRAINS INTO INLETS AND INSTALL RODENT GUARDS. RODENT GUARDS SUBSIDIARY TO UNDERDRAINS.

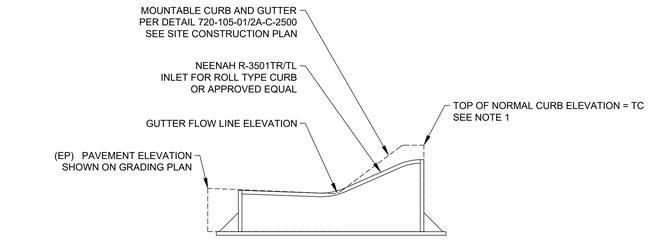
1 - PERFORATED UNDERDRAIN LAYOUT
NTS



NOTES:

1. OD = OUTSIDE DIAMETER OF PIPE

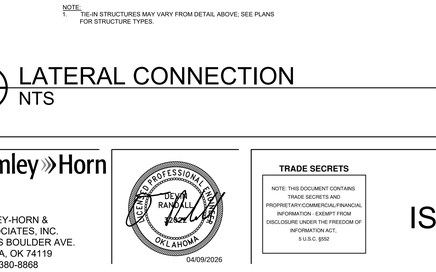
2 - FLEXIBLE PIPE BEDDING
NTS



NOTES:

1. TRANSITION CURB FROM STANDARD MOUNTABLE CURB AND GUTTER SECTION TO MATCH CASTING OVER A DISTANCE OF FOUR FEET (4') IN EITHER DIRECTION.

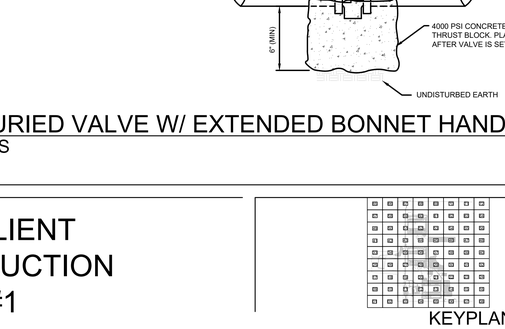
3 - MOUNTABLE CURB AND GUTTER INLET
NTS



NOTES:

1. TIE ALL UNDERDRAINS INTO INLETS AND INSTALL RODENT GUARDS. RODENT GUARDS SUBSIDIARY TO UNDERDRAINS.
2. THE UNDERDRAIN TRENCH SHALL NOT BE CONSTRUCTED BEFORE PLACEMENT OF THE BASE (SUBBASE) COURSE.
3. WHERE USING OPEN-GRADED MATERIAL (CLASS I WITH LITTLE FINES FOR EXAMPLE) IN ANY FILL ZONE, ADDITIONAL PRECAUTION MUST BE TAKEN TO REDUCE OR ELIMINATE THE RISK OF MIGRATION OF FINES FROM ADJACENT MATERIAL. PRECAUTIONARY STEPS COULD INCLUDE THE USE OF GEOTEXTILE BETWEEN THE VARYING FILL MATERIALS, GRADATION SELECTION TO PREVENT THE MIGRATION OF FINES, OR OTHER PRECAUTIONARY MEASURES.

4 - MOUNTABLE CURB & GUTTER W/ PERFORATED UNDERDRAIN
NTS



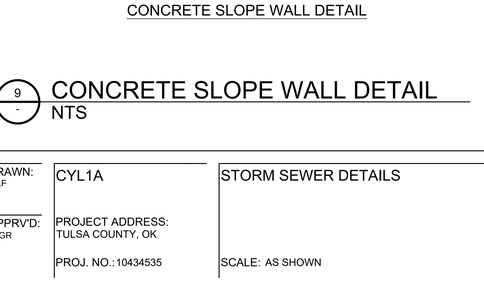
BELOW

ABOVE

NOTES:

1. WHEN DISTANCE OF 18" OR MORE IS NOT POSSIBLE, USE MIN. CLEARANCE PIPE CROSSING DETAIL.
2. WHEN WATER LINE IS NEW, PROVIDE A FULL JOINT OF PIPE FOR BOTH LINES CENTERED AT CROSSING.
3. LOCATE SEWER BELOW WATER LINE.

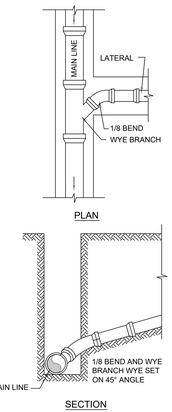
5 - UTILITY CROSSING
NTS



NOTES:

1. DETAIL IS SIMILAR FOR ALL PIPE CROSSINGS WHERE CLEARANCE BETWEEN PIPES IS LESS THAN 1'-6".
2. PROVIDE DOUBLE POLYETHYLENE WRAP AROUND ALL DUCTILE IRON PIPE. WRAP TO EXTEND 5'-0" PAST EACH SIDE OF THE FLOWABLE FILL.

6 - MIN. CLEARANCE PIPE CROSSING
NTS

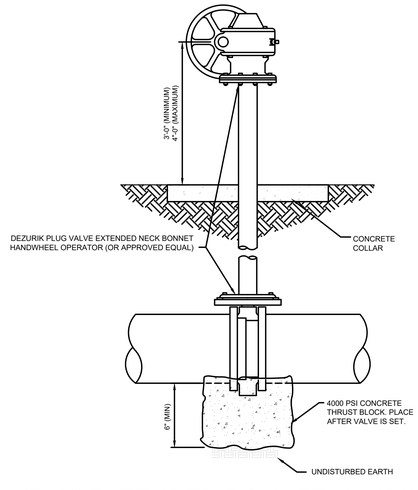


PLAN

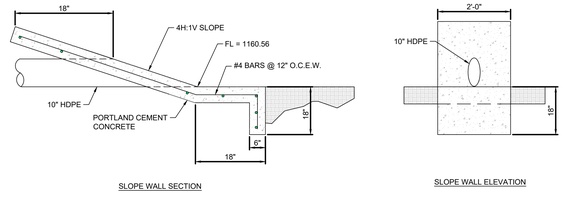
SECTION

NOTE:
1. TIE-IN STRUCTURES MAY VARY FROM DETAIL ABOVE; SEE PLANS FOR STRUCTURE TYPES.

7 - LATERAL CONNECTION
NTS



8 - BURIED VALVE W/ EXTENDED BONNET HANDWHEEL OPERATOR
NTS



SLOPE WALL SECTION

SLOPE WALL ELEVATION

CONCRETE SLOPE WALL DETAIL

9 - CONCRETE SLOPE WALL DETAIL
NTS

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3500-STORM SEWER DETAILS 7/14/2025 1:20 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

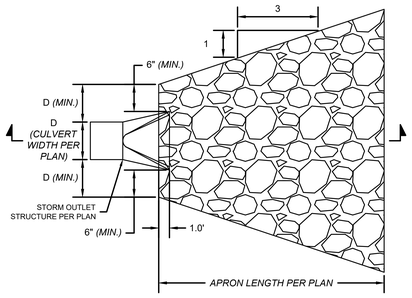
STORM SEWER DETAILS

SCALE: AS SHOWN

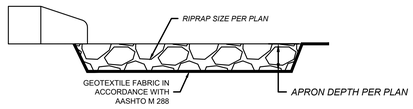
SHEET NUMBER:
1A-C-3503

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

RIPRAP APRON DETAIL



RIPRAP APRON PLAN
NOT TO SCALE



RIPRAP APRON PROFILE
NOT TO SCALE

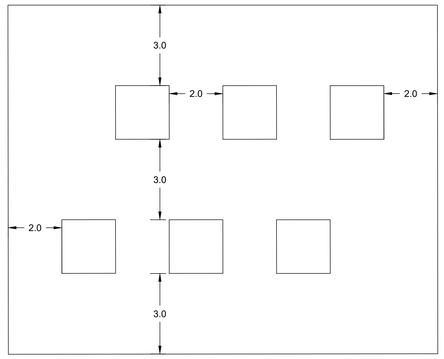
FES-001 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

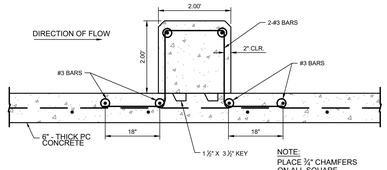
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 76.67$ CFS
$V_1 = 13.74$ FPS
$Y_C = 2.0$ FT
B (WIDTH OF OUTFALL) = 12.0 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 2.0 FT
WIDTH (W) = 2.0 FT
LATERAL SPACING H = 2.0 FT
LONGITUDINAL SPACING = 1.5H = 3.0 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 3.19$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

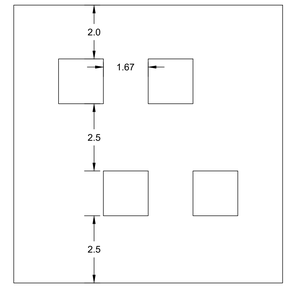
FES-002 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

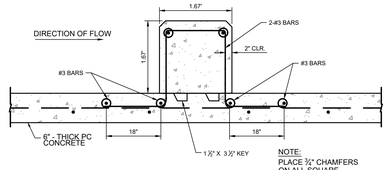
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 33.79$ CFS
$V_1 = 12.02$ FPS
$Y_C = 1.67$ FT
B (WIDTH OF OUTFALL) = 6.67 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 1.67 FT
WIDTH (W) = 1.67 FT
LATERAL SPACING H = 1.67 FT
LONGITUDINAL SPACING = 1.5H = 2.5 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 3.03$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

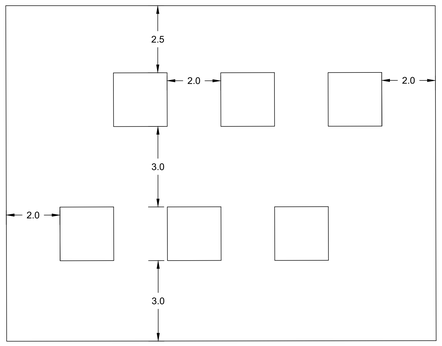
FES-003 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

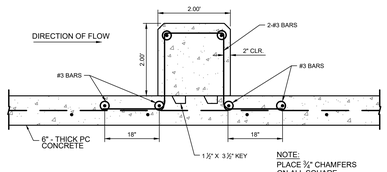
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 62.52$ CFS
$V_1 = 12.97$ FPS
$Y_C = 2.0$ FT
B (WIDTH OF OUTFALL) = 12.0 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 2.0 FT
WIDTH (W) = 2.0 FT
LATERAL SPACING H = 2.0 FT
LONG/TUDINAL SPACING = 1.5H = 3.0 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 2.81$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

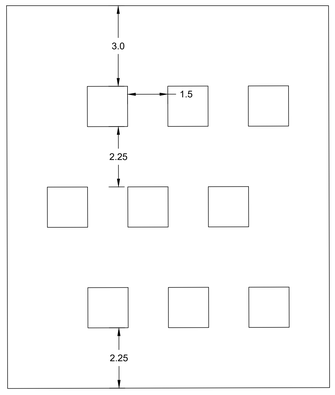
FES-004 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

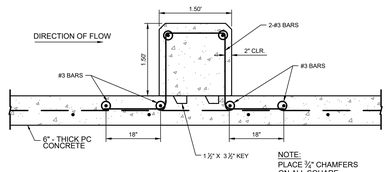
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 56.47$ CFS
$V_1 = 9.94$ FPS
$Y_C = 1.5$ FT
B (WIDTH OF OUTFALL) = 13.5 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 1.5 FT
WIDTH (W) = 1.5 FT
LATERAL SPACING H = 1.5 FT
LONG/TUDINAL SPACING = 1.5H = 2.25 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 2.79$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

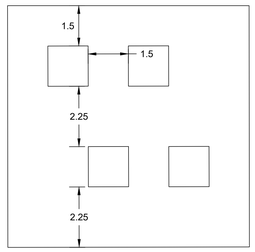
FES-005 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

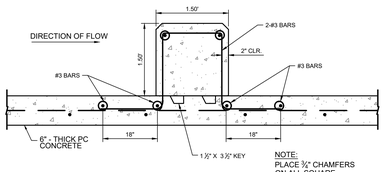
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 2.73$ CFS
$V_1 = 9.32$ FPS
$Y_C = 1.5$ FT
B (WIDTH OF OUTFALL) = 6.0 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 1.5 FT
WIDTH (W) = 1.5 FT
LATERAL SPACING H = 1.5 FT
LONG/TUDINAL SPACING = 1.5H = 2.25 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 0.30$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

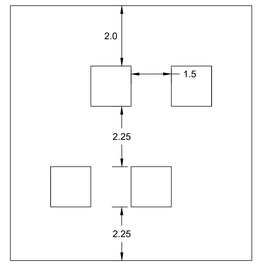
FES-007 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

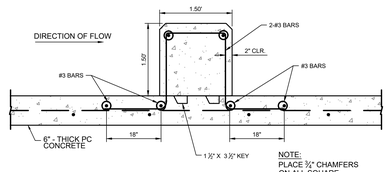
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 13.1$ CFS
$V_1 = 8.93$ FPS
$Y_C = 1.5$ FT
B (WIDTH OF OUTFALL) = 6.0 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 1.5 FT
WIDTH (W) = 1.5 FT
LATERAL SPACING H = 1.5 FT
LONG/TUDINAL SPACING = 1.5H = 2.25 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 1.46$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

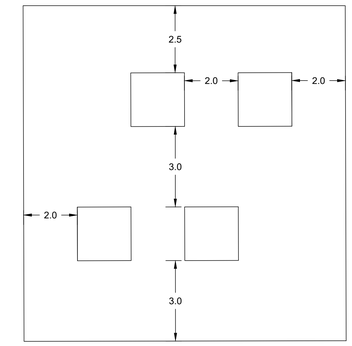
FES-010 BAFFLE BLOCK:

BAFFLE BLOCK CALCULATIONS:

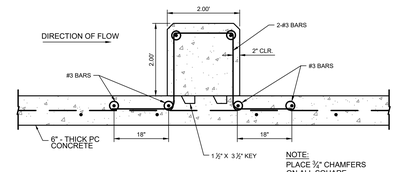
CRITICAL DEPTH:
$Y_C = (V_1^2/g)^{1/3}$
$V_1 = Q/A$
$g = 32.2\ ft/s^2$

OUTFALL
$Q_{100} = 26.78$ CFS
$V_1 = 12.74$ FPS
$Y_C = 2.0$ FT
B (WIDTH OF OUTFALL) = 8.0 FT

BAFFLE BLOCK SIZING
HEIGHT (H) = 2.0 FT
WIDTH (W) = 2.0 FT
LATERAL SPACING H = 2.0 FT
LONG/TUDINAL SPACING = 1.5H = 3.0 FT
V_2 (POST-BAFFLE) = $Q_{100}/(Yc*B) = 1.67$ FPS < 6 FPS



OUTFALL STRUCTURE PLAN
NOT TO SCALE



BAFFLE BLOCK DETAIL
NOT TO SCALE

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3500-STORM SEWER DETAILS 7/14/2025 1:20 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL GREEN
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

STORM SEWER DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3504

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-AI-001	1A-STRM-1.0 STA: 24+78.07 OFFSET: 0.00	635.20	16" INV IN (E) = 629.71 15" INV IN (S) = 629.96 18" INV OUT (W) = 629.709	N: 467998.4401 E: 2584362.9687
1A-ST-AI-002	1A-STRM-1.0 STA: 25+62.07 OFFSET: 0.00	635.20	18" INV IN (S) = 630.29 18" INV OUT (W) = 630.291	N: 468000.1735 E: 2584446.9509
1A-ST-AI-003	1A-STRM-1.0 STA: 26+22.07 OFFSET: 0.00	635.20	18" INV OUT (N) = 630.706	N: 467940.1863 E: 2584448.1890
1A-ST-AI-004	1A-STRM-1.9 STA: 10+60.00 OFFSET: 0.00	635.20	15" INV OUT (N) = 630.548	N: 467938.4529 E: 2584364.2069
1A-ST-AI-005	1A-STRM-5.1.1 STA: 10+64.22 OFFSET: 0.00	637.25	18" INV OUT (E) = 628.622	N: 467108.9974 E: 2585206.8308
1A-ST-AI-006	1A-STRM-5.1.2 STA: 10+53.82 OFFSET: 0.00	637.24	18" INV OUT (N) = 628.518	N: 467089.6163 E: 2585106.3527
1A-ST-AI-007	1A-STRM-5.1.4 STA: 10+55.55 OFFSET: 0.00	637.11	18" INV OUT (N) = 629.884	N: 467084.9419 E: 2584968.3408
1A-ST-AI-008	1A-STRM-5.7 STA: 10+22.50 OFFSET: 0.00	636.78	18" INV OUT (S) = 629.278	N: 467042.4907 E: 2584869.9560
1A-ST-AI-009	1A-STRM-5.10 STA: 10+22.50 OFFSET: 0.00	638.00	18" INV OUT (S) = 631.656	N: 467040.3101 E: 2584764.3269
1A-ST-AI-010	1A-STRM-5.13 STA: 10+27.12 OFFSET: 0.00	637.80	18" INV OUT (S) = 630.502	N: 467042.3772 E: 2584640.7992
1A-ST-AI-011	1A-STRM-5.15 STA: 10+17.50 OFFSET: 0.00	638.30	18" INV OUT (S) = 630.693	N: 467030.8228 E: 2584546.9761
1A-ST-AI-012	1A-STRM-5.17 STA: 12+12.74 OFFSET: 0.00	638.35	18" INV OUT (W) = 632.017	N: 467211.3451 E: 2584469.4425
1A-ST-AI-501	??? STA: ??? OFFSET: ??? ???	667.04	24" INV OUT (E) = 662.036	N: 467651.5347 E: 2583334.4792
1A-ST-AI-502	1A-STRM-13.0 STA: 14+43.03 OFFSET: 0.00	660.20	24" INV OUT (NE) = 655.199	N: 466995.8608 E: 2583359.0087
1A-ST-AI-503	1A-STRM-10.3 STA: 10+49.57 OFFSET: 0.00	667.88	15" INV OUT (NW) = 663.634	N: 467253.4189 E: 2583497.1217
1A-ST-BD-001	1A-STRM-1.1 STA: 10+16.03 OFFSET: 0.00	629.07	12" INV IN (N) = 627.75 12" INV OUT (S) = 627.749	N: 467884.6410 E: 2585002.5325
1A-ST-BD-002	1A-STRM-1.2 STA: 10+12.54 OFFSET: 0.00	628.93	12" INV IN (N) = 627.60 12" INV OUT (S) = 627.600	N: 467879.0338 E: 2584899.6529
1A-ST-BD-003	1A-STRM-1.3 STA: 10+57.58 OFFSET: 0.00	628.52	12" INV IN (SE) = 627.44 12" INV OUT (W) = 627.442	N: 467868.3844 E: 2584797.7573
1A-ST-BD-004	1A-STRM-1.4 STA: 10+12.53 OFFSET: 0.00	627.95	12" INV IN (N) = 626.63 12" INV OUT (S) = 626.629	N: 467874.9737 E: 2584703.7651
1A-ST-BD-005	1A-STRM-1.5 STA: 10+16.03 OFFSET: 0.00	628.37	12" INV IN (N) = 627.05 12" INV OUT (S) = 627.050	N: 467876.3867 E: 2584602.6162
1A-ST-BD-006	1A-STRM-1.6 STA: 10+39.68 OFFSET: 0.00	629.59	12" INV OUT (S) = 628.267	N: 467897.1424 E: 2584462.0969
1A-ST-BD-007	1A-STRM-2.1 STA: 10+76.68 OFFSET: 0.00	628.78	15" INV OUT (N) = 627.101	N: 467687.5989 E: 2585111.3668
1A-ST-BD-008	1A-STRM-2.2 STA: 10+50.58 OFFSET: 0.00	628.90	15" INV OUT (N) = 627.218	N: 467710.8416 E: 2584973.0461
1A-ST-BD-009	1A-STRM-2.3 STA: 10+76.68 OFFSET: 0.00	629.70	15" INV OUT (N) = 628.022	N: 467679.5066 E: 2584719.3044
1A-ST-BD-010	1A-STRM-2.5 STA: 10+50.92 OFFSET: 0.00	630.89	15" INV OUT (N) = 629.214	N: 467702.2677 E: 2584573.8036
1A-ST-BD-011	1A-STRM-2.6 STA: 10+44.28 OFFSET: 0.00	632.40	15" INV OUT (NW) = 630.719	N: 467709.4563 E: 2584433.6089
1A-ST-BD-013	1A-STRM-3.2 STA: 10+02.99 OFFSET: 0.00	636.25	10" INV IN (S) = 634.93 10" INV OUT (NE) = 634.926	N: 467646.0229 E: 2585193.9181
1A-ST-BD-014	1A-STRM-3.3 STA: 10+02.99 OFFSET: 0.00	636.34	10" INV IN (S) = 635.01 10" INV OUT (NE) = 635.014	N: 467645.1459 E: 2585151.4272
1A-ST-BD-015	1A-STRM-3.4 STA: 10+02.99 OFFSET: 0.00	636.42	10" INV IN (S) = 635.09 10" INV OUT (NE) = 635.092	N: 467644.3721 E: 2585113.9351
1A-ST-BD-016	1A-STRM-3.5 STA: 10+02.99 OFFSET: 0.00	636.53	10" INV IN (S) = 635.21 10" INV OUT (NE) = 635.206	N: 467643.2371 E: 2585058.9468
1A-ST-BD-017	1A-STRM-3.6 STA: 10+02.99 OFFSET: 0.00	636.61	10" INV IN (S) = 635.28 10" INV OUT (NE) = 635.283	N: 467642.4633 E: 2585021.4548
1A-ST-BD-018	1A-STRM-3.7 STA: 10+02.99 OFFSET: 0.00	636.70	10" INV IN (S) = 635.38 10" INV OUT (NE) = 635.377	N: 467641.5347 E: 2584976.4644
1A-ST-BD-019	1A-STRM-3.8 STA: 10+02.99 OFFSET: 0.00	636.77	10" INV IN (S) = 635.45 10" INV OUT (NE) = 635.449	N: 467640.8124 E: 2584941.4719
1A-ST-BD-020	1A-STRM-3.9 STA: 10+02.99 OFFSET: 0.00	636.85	10" INV IN (S) = 635.53 10" INV OUT (NE) = 635.527	N: 467640.0386 E: 2584903.9799
1A-ST-BD-021	1A-STRM-3.10 STA: 10+02.99 OFFSET: 0.00	636.98	10" INV IN (S) = 635.66 10" INV OUT (NE) = 635.659	N: 467638.7179 E: 2584839.9935
1A-ST-BD-022	1A-STRM-3.11 STA: 10+02.99 OFFSET: 0.00	637.09	10" INV IN (S) = 635.77 10" INV OUT (NE) = 635.768	N: 467637.6345 E: 2584787.5047
1A-ST-BD-023	1A-STRM-3.12 STA: 10+02.99 OFFSET: 0.00	637.17	10" INV IN (S) = 635.85 10" INV OUT (NE) = 635.846	N: 467636.8606 E: 2584750.0126
1A-ST-BD-024	1A-STRM-3.13 STA: 10+02.99 OFFSET: 0.00	637.28	10" INV IN (S) = 635.96 10" INV OUT (NE) = 635.959	N: 467635.7257 E: 2584695.0244
1A-ST-BD-025	1A-STRM-3.14 STA: 10+02.99 OFFSET: 0.00	637.36	10" INV IN (S) = 636.04 10" INV OUT (NE) = 636.037	N: 467634.9518 E: 2584657.5323
1A-ST-BD-026	1A-STRM-3.15 STA: 10+02.99 OFFSET: 0.00	637.46	10" INV IN (S) = 636.13 10" INV OUT (NE) = 636.130	N: 467634.0232 E: 2584612.5419
1A-ST-BD-027	1A-STRM-3.16 STA: 10+02.99 OFFSET: 0.00	637.53	10" INV IN (S) = 636.20 10" INV OUT (NE) = 636.203	N: 467633.3010 E: 2584577.5494

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-BD-028	1A-STRM-3.17 STA: 10+02.99 OFFSET: 0.00	637.61	10" INV IN (S) = 636.28 10" INV OUT (NE) = 636.281	N: 467632.5271 E: 2584540.0574
1A-ST-BD-029	1A-STRM-4.6.1 STA: 10+11.73 OFFSET: 0.00	635.62	6" INV IN (S) = 635.05 6" INV OUT (W) = 635.054	N: 467253.8354 E: 2585160.2261
1A-ST-BD-030	1A-STRM-4.9.1 STA: 10+13.17 OFFSET: 0.00	635.93	6" INV IN (S) = 635.37 6" INV OUT (W) = 635.366	N: 467252.6114 E: 2585100.9266
1A-ST-BD-031	1A-STRM-4.11.1 STA: 10+12.02 OFFSET: 0.00	636.23	6" INV IN (S) = 635.66 6" INV OUT (W) = 635.663	N: 467251.3340 E: 2585039.0384
1A-ST-BD-032	1A-STRM-4.13.1 STA: 10+11.73 OFFSET: 0.00	636.28	6" INV IN (S) = 635.72 6" INV OUT (W) = 635.715	N: 467250.0745 E: 2584978.0149
1A-ST-BD-033	1A-STRM-4.16.1 STA: 10+13.17 OFFSET: 0.00	636.59	6" INV IN (S) = 636.03 6" INV OUT (W) = 636.027	N: 467248.8505 E: 2584918.7154
1A-ST-BD-034	1A-STRM-4.19 STA: 10+79.23 OFFSET: 0.00	634.83	6" INV IN (S) = 634.27 6" INV OUT (W) = 634.265	N: 467247.5731 E: 2584856.8272
1A-ST-BD-035	1A-STRM-4.22 STA: 10+78.95 OFFSET: 0.00	635.13	6" INV IN (S) = 634.57 6" INV OUT (W) = 634.568	N: 467246.3136 E: 2584795.8037
1A-ST-BD-036	1A-STRM-4.24 STA: 10+80.38 OFFSET: 0.00	635.44	6" INV IN (S) = 634.88 6" INV OUT (W) = 634.879	N: 467245.0896 E: 2584736.5042
1A-ST-BD-037	1A-STRM-4.27 STA: 10+79.23 OFFSET: 0.00	635.74	6" INV IN (S) = 635.18 6" INV OUT (W) = 635.177	N: 467243.8123 E: 2584674.6160
1A-ST-BD-038	1A-STRM-4.29 STA: 10+78.95 OFFSET: 0.00	636.05	6" INV IN (S) = 635.48 6" INV OUT (W) = 635.479	N: 467242.5527 E: 2584613.5925
1A-ST-BD-039	1A-STRM-4.31 STA: 10+80.38 OFFSET: 0.00	636.36	6" INV IN (S) = 635.79 6" INV OUT (W) = 635.790	N: 467241.3288 E: 2584554.2930
1A-ST-BD-040	1A-STRM-5.1 STA: 14+21.19 OFFSET: 0.00	632.33	12" INV IN (N) = 631.01 12" INV OUT (SE) = 631.010	N: 467162.6313 E: 2584858.7353
1A-ST-BD-041	1A-STRM-5.1 STA: 14+31.53 OFFSET: 0.00	632.44	12" INV OUT (S) = 631.113	N: 467172.9701 E: 2584858.5219
1A-ST-BD-042	1A-STRM-5.1.3 STA: 10+34.73 OFFSET: 0.00	634.15	12" INV OUT (S) = 632.827	N: 467177.9815 E: 2585101.3594
1A-ST-BD-043	1A-STRM-5.17.1 STA: 10+32.76 OFFSET: 0.00	634.47	12" INV IN (N) = 633.15 12" INV OUT (W) = 633.147	N: 467082.9207 E: 2584491.7054
1A-ST-BD-044	1A-STRM-5.17.1 STA: 10+55.77 OFFSET: 0.00	635.16	12" INV IN (W) = 634.09 12" INV OUT (S) = 634.088	N: 467105.9208 E: 2584491.2307
1A-ST-BD-045	1A-STRM-5.17.2 STA: 11+58.37 OFFSET: 0.00	634.28	12" INV IN (N) = 632.96 12" INV OUT (W) = 632.958	N: 467157.3074 E: 2584615.8095
1A-ST-BD-046	1A-STRM-5.17.2 STA: 11+69.03 OFFSET: 0.00	634.34	12" INV OUT (S) = 633.011	N: 467167.9566 E: 2584615.5845
1A-ST-BD-047	1A-STRM-5.17.2.1 STA: 10+40.40 OFFSET: 0.00	633.93	6" INV IN (W) = 633.36 6" INV OUT (N) = 633.360	N: 467115.5966 E: 2584552.5415
1A-ST-BD-049	1A-STRM-16.0 STA: 10+44.23 OFFSET: 0.00 L	666.93	4" INV IN (N) = 666.57 4" INV OUT (SE) = 666.565	N: 467762.7257 E: 2583381.0182
1A-ST-BD-050	1A-STRM-16.1 STA: 10+13.57 OFFSET: 0.00	667.04	4" INV IN (N) = 666.67 4" INV OUT (SE) = 666.672	N: 467763.1064 E: 2583400.0028
1A-ST-BD-052		628.20	6" INV OUT (S) = 627.631	N: 467911.0645 E: 2585124.4749
1A-ST-BD-053		629.31	12" INV OUT (S) = 627.988	N: 467908.5380 E: 2585002.0432
1A-ST-BD-054		629.20	12" INV OUT (S) = 627.874	N: 467906.4134 E: 2584899.0879
1A-ST-BD-055		628.23	12" INV OUT (S) = 626.903	N: 467902.3711 E: 2584703.1997
1A-ST-BD-056		628.61	12" INV OUT (S) = 627.289	N: 467900.2853 E: 2584602.1230
1A-ST-BD-057		630.11	6" INV OUT (S) = 629.546	N: 467895.1052 E: 2584351.0998
1A-ST-BD-058		630.51	6" INV OUT (E) = 629.941	N: 467853.2365 E: 2584257.6927
1A-ST-BD-059		633.15	6" INV OUT (E) = 632.584	N: 467746.7168 E: 2584259.8913
1A-ST-BD-060		636.64	6" INV OUT (E) = 636.075	N: 467628.9096 E: 2584262.3229
1A-ST-BD-061		636.64	6" INV OUT (E) = 636.075	N: 467539.9286 E: 2584264.1595
1A-ST-BD-062		636.64	6" INV OUT (E) = 636.075	N: 467446.9485 E: 2584266.0786
1A-ST-BD-063		635.29	6" INV OUT (E) = 634.720	N: 467349.4683 E: 2584268.0906
1A-ST-BD-064		636.64	6" INV OUT (E) = 636.075	N: 467226.9951 E: 2584270.6185
1A-ST-BD-065		636.64	6" INV OUT (E) = 636.075	N: 467188.0007 E: 2584271.4233
1A-ST-BD-066		636.64	6" INV OUT (E) = 636.075	N: 467089.5927 E: 2584273.4545
1A-ST-BD-067		633.69	6" INV OUT (N) = 633.120	N: 466971.1070 E: 2584302.1557
1A-ST-BD-068		633.24	6" INV OUT (N) = 632.671	N: 466972.9429 E: 2584391.1031
1A-ST-BD-069		632.89	6" INV OUT (N) = 632.325	N: 466974.4099 E: 2584462.1778
1A-ST-BD-070		632.46	6" INV OUT (N) = 631.890	N: 466976.1834 E: 2584548.1039

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-BD-071		632.09	6" INV OUT (N) = 631.527	N: 466977.6795 E: 2584620.5885
1A-ST-BD-072		631.73	6" INV OUT (N) = 631.165	N: 466979.1756 E: 2584693.0732
1A-ST-BD-073		633.37	6" INV OUT (N) = 632.803	N: 466980.6717 E: 2584765.5578
1A-ST-BD-074		629.26	6" INV OUT (N) = 628.690	N: 466982.1678 E: 2584838.0424
1A-ST-BD-075		628.89	6" INV OUT (N) = 628.328	N: 466983.6639 E: 2584910.5270
1A-ST-BD-076		630.28	6" INV OUT (N) = 629.715	N: 466985.1600 E: 2584983.0117
1A-ST-BD-077		629.92	6" INV OUT (N) = 629.352	N: 466986.6561 E: 2585055.4963
1A-ST-BD-078		629.56	6" INV OUT (N) = 628.990	N: 466988.1522 E: 2585127.9810
1A-ST-BD-079		629.12	6" INV OUT (N) = 628.557	N: 466989.9372 E: 2585214.4620
1A-ST-BD-080		633.16	6" INV OUT (E) = 632.590	N: 467208.0484 E: 2585242.7165
1A-ST-BD-081		632.81	6" INV OUT (E) = 632.239	N: 467369.5167 E: 2585239.3837
1A-ST-BD-082		633.22	6" INV OUT (E) = 632.651	N: 467466.9962 E: 2585237.3717
1A-ST-BD-083		634.89	6" INV OUT (E) = 634.326	N: 467559.9761 E: 2585235.4526
1A-ST-BD-085		630.03	6" INV IN (NW) = 629.46 6" INV OUT (S) = 629.459	N: 467887.5015 E: 2585254.9480
1A-ST-BD-086		630.39	6" INV OUT (SE) = 629.826	N: 467912.7043 E: 2585228.1722
1A-ST-BD-087		626.71	12" INV OUT (S) = 625.380	N: 467904.4355 E: 2584803.2387
1A-ST-BD-088		632.33	15" INV IN (SE) = 630.65 15" INV OUT (N) = 630.652	N: 467857.0469 E: 2584704.1351
1A-ST-BD-089		631.06	15" INV IN (SW) = 629.38 15" INV OUT (N) = 629.383	N: 467860.0013 E: 2584900.0457
1A-ST-BD-090		636.53	10" INV IN (S) = 635.61 10" INV OUT (NE) = 635.609	N: 467639.2131 E: 2584863.9877
1A-ST-CB-001	1A-STRM-1.3 STA: 10+04.00 OFFSET: 0.00	635.92	12" INV IN (E) = 625.60 12" INV OUT (S) = 625.603	N: 467867.2788 E: 2584744.1886
1A-ST-CB-002	1A-STRM-1.3 STA: 10+65.21 OFFSET: 0.00	633.95	12" INV OUT (NW) = 627.704	N: 467862.7815 E: 2584802.9435
1A-ST-CB-003	1A-STRM-2.1 STA: 10+44.31 OFFSET: 0.00 L	638.04	15" INV IN (S) = 626.78 3" INV IN (W) = 631.78 15" INV OUT (N) = 626.777	N: 467719.9545 E: 2585110.6989
1A-ST-CB-004	1A-STRM-2.2 STA: 10+44.31 OFFSET: 0.00	638.04	15" INV IN (S) = 627.16 3" INV IN (W) = 632.16 3" INV IN (E) = 630.16 15" INV OUT (N) = 627.155	N: 467717.1107 E: 2584972.9167
1A-ST-CB-005	1A-STRM-2.3 STA: 10+44.31 OFFSET: 0.00	638.04	15" INV IN (S) = 627.70 3" INV IN (W) = 632.70 15" INV OUT (N) = 627.698	N: 467711.8623 E: 2584718.6366
1A-ST-CB-006	1A-STRM-2.5 STA: 10+44.31 OFFSET: 0.00	638.04	15" INV IN (S) = 629.15 3" INV IN (W) = 630.15 15" INV OUT (N) = 629.148	N: 467708.8701 E: 2584573.6673
1A-ST-CB-007	1A-STRM-2.8 STA: 10+65.00 OFFSET: 0.00	639.24	12" INV IN (E) = 634.61 10" INV IN (S) = 634.61 3" INV IN (N) = 635.36 18" INV OUT (W) = 634.107	N: 467635.0748 E: 2584353.4651
1A-ST-CB-008	1A-STRM-2.8 STA: 11+67.75 OFFSET: 0.00	639.33	10" INV IN (S) = 635.63 12" INV OUT (W) = 635.634	N: 467637.1951 E: 2584456.1932
1A-ST-CB-009	1A-STRM-3.0 STA: 15+89.20 OFFSET: 0.00	639.40	24" INV IN (W) = 632.76 10" INV IN (SW) = 633.76 24" INV OUT (E) = 632.763	N: 467640.8754 E: 2584842.0638
1A-ST-CB-010	1A-STRM-3.0 STA: 17+71.70 OFFSET: 0.00	639.90	15" INV IN (W) = 634.43 15" INV IN (SW) = 634.68 24" INV OUT (E) = 633.676	N: 467637.1094 E: 2584659.6027
1A-ST-CB-011	1A-STRM-3.0 STA: 18+51.70 OFFSET: 0.00	639.40	12" INV IN (W) = 635.08 10" INV IN (SW) = 635.08 15" INV OUT (E) = 634.826	N: 467635.4585 E: 2584579.6197
1A-ST-CB-012	1A-STRM-4.0 STA: 13+51.02 OFFSET: 0.00	638.83	30" INV IN (W) = 630.46 10" INV IN (N) = 632.13 6" INV IN (S) = 632.46 30" INV OUT (E) = 630.461	N: 467282.1325 E: 2585088.4036
1A-ST-CB-013	1A-STRM-4.0 STA: 16+50.02 OFFSET: 0.00	638.84	30" INV IN (W) = 631.96 10" INV IN (N) = 633.62 30" INV OUT (E) = 631.958	N: 467275.9624 E: 2584789.4685
1A-ST-CB-014	1A-STRM-4.0 STA: 19+36.47 OFFSET: 0.00	638.84	18" INV IN (W) = 634.39 6" INV IN (S) = 635.39 30" INV OUT (E) = 633.392	N: 467270.0513 E: 2584503.0797
1A-ST-CB-015	1A-STRM-4.6.1 STA: 10+15.72 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 635.074	N: 467249.8449 E: 2585160.3085
1A-ST-CB-016	1A-STRM-4.9.1 STA: 10+17.16 OFFSET: 0.00	639.96	5" INV IN (S) = 639.21 6" INV OUT (N) = 635.386	N: 467248.6210 E: 2585101.0089
1A-ST-CB-017	1A-STRM-4.11.1 STA: 10+16.01 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 635.683	N: 467247.3436 E: 2585039.1207
1A-ST-CB-018	1A-STRM-4.13.1 STA: 10+15.72 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 635.735	N: 467246.0841 E: 2584978.0973
1A-ST-CB-019	1A-STRM-4.16.1 STA: 10+17.16 OFFSET: 0.00	639.96	5" INV IN (S) = 639.21 6" INV OUT (N) = 636.047	N: 467244.8601 E: 2584918.7977
1A-ST-CB-020	1A-STRM-4.19 STA: 10+83.22 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 634.285	N: 467243.5827 E: 2584856.9096
1A-ST-CB-021	1A-STRM-4.22 STA: 10+82.94 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 634.588	N: 467242.3232 E: 2584795.8861
1A-ST-CB-022	1A-STRM-4.24 STA: 10+84.37 OFFSET: 0.00	639.96	5" INV IN (S) = 639.21 6" INV OUT (N) = 634.899	N: 467241.0992 E: 2584736.5866

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-CB-023	1A-STRM-4.27 STA: 10+83.22 OFFSET: 0.00	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 635.197	N: 467239.8218 E: 2584674.6984
1A-ST-CB-024	1A-STRM-4.29 STA: 10+82.94 OFFSET: 0.00 L	639.94	5" INV IN (S) = 639.19 6" INV OUT (N) = 635.499	N: 467238.5623 E: 2584613.6749
1A-ST-CB-025	1A-STRM-4.31 STA: 10+84.37 OFFSET: 0.00	639.96	5" INV IN (S) = 639.21 6" INV OUT (N) = 635.810	N: 467237.3383 E: 2584554.3754
1A-ST-CB-026	1A-STRM-5.17.1 STA: 10+60.15 OFFSET: 0.00 L	638.05	12" INV IN (W) = 636.99 12" INV OUT (E) = 634.267	N: 467105.8304 E: 2584486.8502
1A-ST-CB-027	1A-STRM-5.19 STA: 12+52.73 OFFSET: 0.00	635.60	12" INV IN (W) = 634.44 12" INV IN (E) = 634.44 18" INV OUT (S) = 631.535	N: 467262.7879 E: 2584386.1540
1A-ST-CB-028	1A-STRM-16.0 STA: 10+30.66 OFFSET: 0.00	670.03	4" INV IN (NW) = 666.50 6" INV OUT (E) = 666.331	N: 467753.2638 E: 2583390.7351
1A-ST-CB-029	1A-STRM-16.0 STA: 10+11.67 OFFSET: 0.00	669.46	6" INV IN (W) = 666.24 4" INV IN (NW) = 666.40 6" INV OUT (E) = 666.236	N: 467753.6387 E: 2583409.7198
1A-ST-CB-031	1A-STRM-1.10 STA: 10+42.51 OFFSET: 0.00	636.76	12" INV IN (W) = 635.21 15" INV OUT (NE) = 630.738	N: 467841.3536 E: 2584869.2334
1A-ST-CB-032	1A-STRM-1.11 STA: 10+43.60 OFFSET: 0.00	636.67	12" INV IN (E) = 635.12 15" INV OUT (NW) = 631.767	N: 467838.6367 E: 2584737.5985
1A-ST-CB-033	1A-STRM-4.0 STA: 12+30.78 OFFSET: 0.00	638.83	30" INV IN (W) = 628.51 6" INV IN (S) = 630.50 30" INV OUT (E) = 628.509	N: 467284.6138 E: 2585208.6209
1A-ST-CB-034	1A-STRM-12.0 STA: 10+18.97 OFFSET: 0.00	670.32	24" INV IN (W) = 667.41 24" INV OUT (NE) = 662.963	N: 467795.9155 E: 2583403.5961
1A-ST-CB-035	1A-STRM-3.0 STA: 10+26.31 OFFSET: 0.00	639.40	10" INV IN (S) = 635.45 12" INV OUT (E) = 635.449	N: 467633.9192 E: 2584505.0212
1A-ST-CI-001	1A-STRM-1.0 STA: 12+81.57 OFFSET: 0.00	634.93	30" INV IN (W) = 620.43 6" INV IN (N) = 622.43 36" INV OUT (S) = 619.929	N: 467873.8259 E: 2585255.2303
1A-ST-CI-002	1A-STRM-1.0 STA: 14+11.53 OFFSET: 0.00 R	635.33	30" INV IN (W) = 621.33 6" INV IN (S) = 623.33 30" INV OUT (E) = 621.328	N: 467871.1441 E: 2585125.2986
1A-ST-CI-003	1A-STRM-1.0 STA: 15+33.98 OFFSET: 0.00 R	635.33	30" INV IN (W) = 622.18 12" INV IN (N) = 627.59 30" INV OUT (E) = 622.176	N: 467868.6171 E: 2585002.8671
1A-ST-CI-004	1A-STRM-1.0 STA: 16+36.96 OFFSET: 0.00 R	635.25	30" INV IN (W) = 622.89 12" INV IN (N) = 627.47 15" INV IN (S) = 629.14 30" INV OUT (E) = 622.889	N: 467866.4921 E: 2584899.9117
1A-ST-CI-005	1A-STRM-1.0 STA: 18+32.89 OFFSET: 0.00	635.23	24" INV IN (W) = 624.74 12" INV IN (N) = 626.50 15" INV IN (S) = 630.49 30" INV OUT (E) = 624.244	N: 467862.4489 E: 2584704.0236
1A-ST-CI-006	1A-STRM-1.0 STA: 19+33.98 OFFSET: 0.00	635.33	24" INV IN (W) = 625.44 12" INV IN (N) = 626.89 24" INV OUT (E) = 625.444	N: 467860.3628 E: 2584602.9520
1A-ST-CI-007	1A-STRM-1.0 STA: 20+74.05 OFFSET: 0.00	635.33	24" INV IN (W) = 626.41 12" INV IN (N) = 627.41 24" INV OUT (E) = 626.413	N: 467857.4724 E: 2584462.9157
1A-ST-CI-008	1A-STRM-1.0 STA: 21+85.07 OFFSET: 0.00 R	635.38	24" INV IN (W) = 627.18 6" INV IN (N) = 628.68 24" INV OUT (E) = 627.182	N: 467855.1815 E: 2584351.9236
1A-ST-CI-009	1A-STRM-1.7 STA: 10+11.00 OFFSET: 0.00	635.35	6" INV IN (W) = 629.79 15" INV OUT (E) = 629.038	N: 467853.5512 E: 2584272.9395
1A-ST-CI-010	1A-STRM-1.7 STA: 10+11.00 OFFSET: 0.00	634.66	15" INV OUT (E) = 629.484	N: 467996.5210 E: 2584269.9886
1A-ST-CI-011	1A-STRM-2.0 STA: 10+70.46 OFFSET: 0.00 L	636.92	30" INV IN (W) = 621.31 36" INV OUT (E) = 620.811	N: 467765.8514 E: 2585186.9878
1A-ST-CI-012	1A-STRM-2.0 STA: 11+08.42 OFFSET: 0.00 L	636.92	30" INV IN (W) = 621.69 30" INV OUT (E) = 621.691	N: 467765.0687 E: 2585149.0359
1A-ST-CI-013	1A-STRM-2.0 STA: 11+47.68 OFFSET: 0.00 L	636.74	24" INV IN (W) = 622.58 15" INV IN (S) = 626.33 30" INV OUT (E) = 622.084	N: 467764.2579 E: 2585109.7845
1A-ST-CI-014	1A-STRM-2.0 STA: 12+18.08 OFFSET: 0.00 R	636.86	24" INV IN (W) = 623.29 24" INV OUT (E) = 623.288	N: 467762.8049 E: 2585039.3909
1A-ST-CI-015	1A-STRM-2.0 STA: 12+85.49 OFFSET: 0.00 L	636.77	24" INV IN (W) = 623.96 15" INV IN (S) = 626.71 24" INV OUT (E) = 623.962	N: 467761.4140 E: 2584972.0023
1A-ST-CI-016	1A-STRM-2.0 STA: 13+50.62 OFFSET: 0.00 L	636.78	24" INV IN (W) = 624.61 24" INV OUT (E) = 624

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-MH-008	1A-STRM-3.0 STA: 11+71.31 OFFSET: 0.00	637.86	24" INV IN (W) = 630.67 24" INV IN (S) = 631.67 24" INV OUT (E) = 624.674	N: 467649.4988 E: 2585259.8604
1A-ST-MH-009	1A-STRM-3.1 STA: 10+89.00 OFFSET: 0.00	638.20	15" INV IN (W) = 633.31 24" INV OUT (N) = 632.564	N: 467560.5181 E: 2585261.6970
1A-ST-MH-010	1A-STRM-4.0 STA: 10+86.80 OFFSET: 0.00	626.67	30" INV IN (W) = 619.13 30" INV OUT (E) = 616.134	N: 467287.5849 E: 2585352.5657
1A-ST-MH-011	1A-STRM-4.0 STA: 11+72.02 OFFSET: 0.00	638.46	30" INV IN (W) = 627.56 24" INV IN (N) = 630.06 24" INV IN (S) = 630.06 30" INV OUT (E) = 621.555	N: 467285.8264 E: 2585267.3667
1A-ST-MH-012	1A-STRM-4.0 STA: 19+83.47 OFFSET: 0.00	638.91	12" INV IN (NW) = 635.13 18" INV OUT (E) = 634.627	N: 467269.0815 E: 2584456.0951
1A-ST-MH-013	1A-STRM-4.1 STA: 10+84.25 OFFSET: 0.00	638.43	24" INV IN (N) = 630.48 15" INV IN (W) = 631.23 24" INV OUT (S) = 630.477	N: 467370.0584 E: 2585265.6281
1A-ST-MH-014	1A-STRM-4.1 STA: 11+81.75 OFFSET: 0.00	638.81	15" INV IN (W) = 631.71 24" INV OUT (S) = 630.964	N: 467467.5379 E: 2585263.6161
1A-ST-MH-015	1A-STRM-4.2 STA: 10+38.25 OFFSET: 0.00	638.27	24" INV IN (S) = 630.44 15" INV IN (W) = 631.19 24" INV OUT (N) = 630.438	N: 467247.5833 E: 2585268.1560
1A-ST-MH-016	1A-STRM-4.2 STA: 10+77.25 OFFSET: 0.00	638.21	15" INV IN (W) = 631.58 24" INV OUT (N) = 630.828	N: 467208.5901 E: 2585268.9609
1A-ST-MH-017	1A-STRM-5.0 STA: 10+85.26 OFFSET: 0.00	626.92	36" INV IN (W) = 618.64 36" INV OUT (E) = 615.638	N: 467148.5447 E: 2585358.0136
1A-ST-MH-018	1A-STRM-5.0 STA: 12+91.52 OFFSET: 0.00	637.90	36" INV IN (W) = 625.39 15" INV IN (S) = 628.14 36" INV OUT (N) = 625.390	N: 467028.3010 E: 2585272.8353
1A-ST-MH-019	1A-STRM-5.0 STA: 13+50.67 OFFSET: 0.00	638.49	36" INV IN (W) = 625.69 15" INV IN (S) = 627.44 36" INV OUT (E) = 625.686	N: 467027.0803 E: 2585213.6953
1A-ST-MH-020	1A-STRM-5.0 STA: 14+37.17 OFFSET: 0.00	638.50	36" INV IN (W) = 626.12 15" INV IN (S) = 627.87 36" INV OUT (E) = 626.118	N: 467025.2953 E: 2585127.2143
1A-ST-MH-021	1A-STRM-5.0 STA: 15+09.67 OFFSET: 0.00	638.50	36" INV IN (W) = 626.48 15" INV IN (S) = 628.23 36" INV OUT (E) = 626.481	N: 467023.7992 E: 2585054.7297
1A-ST-MH-022	1A-STRM-5.0 STA: 15+82.17 OFFSET: 0.00	638.50	36" INV IN (W) = 626.84 15" INV IN (S) = 628.59 36" INV OUT (E) = 626.843	N: 467022.3031 E: 2584982.2451
1A-ST-MH-023	1A-STRM-5.0 STA: 16+54.67 OFFSET: 0.00	638.50	36" INV IN (W) = 627.21 15" INV IN (S) = 627.21 36" INV OUT (E) = 627.206	N: 467020.8070 E: 2584909.7604
1A-ST-MH-024	1A-STRM-5.0 STA: 17+27.17 OFFSET: 0.00	638.50	36" INV IN (W) = 627.57 15" INV IN (S) = 627.57 36" INV OUT (E) = 627.568	N: 467019.3109 E: 2584837.2758
1A-ST-MH-025	1A-STRM-5.0 STA: 17+99.67 OFFSET: 0.00	638.50	30" INV IN (W) = 628.43 15" INV IN (S) = 631.68 18" INV IN (N) = 631.43 30" INV OUT (E) = 627.931	N: 467017.8148 E: 2584764.7912
1A-ST-MH-026	1A-STRM-5.0 STA: 18+72.17 OFFSET: 0.00	638.50	30" INV IN (W) = 628.79 15" INV IN (S) = 630.04 30" INV OUT (E) = 628.793	N: 467016.3187 E: 2584692.3065
1A-ST-MH-027	1A-STRM-5.0 STA: 19+44.67 OFFSET: 0.00	638.50	30" INV IN (W) = 629.16 15" INV IN (S) = 630.41 30" INV OUT (E) = 629.156	N: 467014.8226 E: 2584619.8219
1A-ST-MH-028	1A-STRM-5.0 STA: 20+17.17 OFFSET: 0.00	638.50	24" INV IN (W) = 630.02 15" INV IN (S) = 630.77 18" INV IN (N) = 630.52 30" INV OUT (E) = 629.518	N: 467013.3265 E: 2584547.3373
1A-ST-MH-029	1A-STRM-5.0 STA: 21+04.11 OFFSET: 0.00	638.51	24" INV IN (W) = 630.45 24" INV IN (N) = 630.45 15" INV IN (S) = 631.20 24" INV OUT (E) = 630.453	N: 467011.5324 E: 2584460.4107
1A-ST-MH-030	1A-STRM-5.0 STA: 21+73.36 OFFSET: 0.00	637.97	24" INV IN (W) = 630.80 15" INV IN (S) = 631.55 18" INV IN (N) = 630.80 24" INV OUT (E) = 630.799	N: 467010.1035 E: 2584391.1831
1A-ST-MH-031	1A-STRM-5.0 STA: 22+63.17 OFFSET: 0.00	638.07	24" INV IN (W) = 631.25 15" INV IN (S) = 632.00 24" INV OUT (E) = 631.248	N: 467008.2501 E: 2584301.3890
1A-ST-MH-032	1A-STRM-5.0 STA: 23+45.07 OFFSET: 0.00	638.05	24" INV IN (N) = 631.66 15" INV IN (W) = 632.41 24" INV OUT (S) = 631.658	N: 467090.1344 E: 2584299.6989
1A-ST-MH-033	1A-STRM-5.0 STA: 24+43.50 OFFSET: 0.00	638.13	24" INV IN (N) = 632.15 15" INV IN (W) = 632.90 24" INV OUT (S) = 632.150	N: 467188.5424 E: 2584297.6677
1A-ST-MH-034	1A-STRM-5.0 STA: 24+82.50 OFFSET: 0.00	638.21	24" INV IN (W) = 632.34 15" INV IN (W) = 633.09 24" INV OUT (S) = 632.345	N: 467227.5368 E: 2584296.8629
1A-ST-MH-035	1A-STRM-5.0 STA: 25+37.37 OFFSET: 0.00	638.50	24" INV IN (N) = 632.62 10" INV IN (E) = 633.79 24" INV OUT (S) = 632.619	N: 467282.3929 E: 2584295.7307
1A-ST-MH-036	1A-STRM-5.0 STA: 26+05.00 OFFSET: 0.00	638.32	24" INV IN (N) = 632.96 15" INV IN (W) = 633.71 24" INV OUT (S) = 632.957	N: 467350.0100 E: 2584294.3350
1A-ST-MH-037	1A-STRM-5.0 STA: 27+02.18 OFFSET: 0.33 R	638.72	15" INV IN (W) = 634.19 24" INV OUT (S) = 633.445	N: 467447.4902 E: 2584292.3230
1A-ST-MH-038	1A-STRM-5.0 STA: 12+09.47 OFFSET: 0.05 R	638.19	36" INV IN (S) = 624.98 18" INV IN (W) = 627.98 36" INV OUT (N) = 624.980	N: 467110.3221 E: 2585270.9891
1A-ST-MH-039	1A-STRM-5.0 STA: 11+73.06 OFFSET: 0.00	638.38	18" INV IN (W) = 626.30 36" INV IN (S) = 624.80 36" INV OUT (E) = 620.798	N: 467146.7330 E: 2585270.2376
1A-ST-MH-040	1A-STRM-5.1 STA: 11+68.19 OFFSET: 0.00	638.82	18" INV IN (W) = 627.98 18" INV IN (S) = 627.98 12" INV IN (N) = 632.48 18" INV OUT (E) = 627.980	N: 467143.2622 E: 2585102.0811
1A-ST-MH-041	1A-STRM-5.1 STA: 13+86.70 OFFSET: 0.00	639.02	12" INV IN (NW) = 630.66 18" INV OUT (E) = 630.165	N: 467138.7531 E: 2584883.6199
1A-ST-MH-042	1A-STRM-5.17 STA: 10+70.73 OFFSET: 0.00	639.37	24" INV IN (N) = 630.81 12" INV IN (E) = 631.81 24" INV OUT (S) = 630.807	N: 467082.2447 E: 2584458.9512
1A-ST-MH-043	1A-STRM-5.17 STA: 11+99.58 OFFSET: 0.00	638.59	18" INV IN (E) = 631.95 24" INV OUT (S) = 631.451	N: 467211.0732 E: 2584456.2922
1A-ST-MH-044	1A-STRM-12.0 STA: 10+00.00 OFFSET: 0.00	669.04	24" INV IN (SW) = 662.87 60" INV IN (NW) = 662.87 60" INV OUT (SE) = 662.868	N: 467810.8330 E: 2583415.3207
1A-ST-MH-045	1A-STRM-13.0 STA: 10+99.94 OFFSET: 0.00	648.39	30" INV IN (W) = 642.97 30" INV OUT (E) = 634.800	N: 467073.7017 E: 2583653.6986
1A-ST-MH-046	1A-STRM-10.0 STA: 10+98.90 OFFSET: 0.00	665.98	30" INV IN (W) = 655.84 8" INV IN (S) = 662.40 30" INV OUT (E) = 655.843	N: 467488.4255 E: 2583523.5707
1A-ST-MH-047	1A-STRM-17.0 STA: 11+87.60 OFFSET: 0.00	626.76	18" INV IN (E) = 621.44 24" INV OUT (NE) = 620.938	N: 468407.1397 E: 2584588.9315
1A-ST-MH-048	1A-STRM-17.0 STA: 12+89.23 OFFSET: 0.00	626.58	18" INV OUT (W) = 621.946	N: 468399.9037 E: 2584690.3039

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-ST-001	1A-STRM-1.0 STA: 14+68.44 OFFSET: 0.00 L	624.90	30" INV IN (W) = 621.72 30" INV OUT (E) = 621.722	N: 467869.9686 E: 2585068.3998
1A-ST-ST-002	1A-STRM-1.0 STA: 16+03.44 OFFSET: 0.00 L	625.83	30" INV IN (W) = 622.66 30" INV OUT (E) = 622.657	N: 467867.1835 E: 2584933.4284
1A-ST-ST-003	1A-STRM-1.0 STA: 18+68.30 OFFSET: 0.00 L	627.55	24" INV IN (W) = 624.99 24" INV OUT (E) = 624.989	N: 467861.7182 E: 2584668.6215
1A-ST-ST-004	1A-STRM-1.0 STA: 20+03.30 OFFSET: 0.00	628.48	24" INV IN (W) = 625.92 24" INV OUT (E) = 625.924	N: 467858.9323 E: 2584533.6502
1A-ST-ST-005	1A-STRM-1.3 STA: 10+83.80 OFFSET: 0.00	634.03	24" INV OUT (N) = 631.950	N: 467844.2030 E: 2584803.3269
1A-ST-ST-006	1A-STRM-2.0 STA: 11+87.72 OFFSET: 0.00	625.54	24" INV IN (W) = 622.98 24" INV OUT (E) = 622.984	N: 467763.4305 E: 2585069.7518
1A-ST-ST-007	1A-STRM-2.0 STA: 12+56.56 OFFSET: 0.00 R	626.23	24" INV IN (W) = 623.67 24" INV OUT (E) = 623.672	N: 467762.0116 E: 2585000.9284
1A-ST-ST-008	1A-STRM-2.0 STA: 13+22.72 OFFSET: 0.00 L	626.89	24" INV IN (W) = 624.33 24" INV OUT (E) = 624.334	N: 467760.6458 E: 2584934.7804
1A-ST-ST-009	1A-STRM-2.0 STA: 15+87.58 OFFSET: 0.00 L	629.54	24" INV IN (W) = 626.98 24" INV OUT (E) = 626.983	N: 467755.1804 E: 2584669.9735
1A-ST-ST-010	1A-STRM-2.0 STA: 16+56.42 OFFSET: 0.00 L	630.23	24" INV IN (W) = 627.67 24" INV OUT (E) = 627.671	N: 467753.7596 E: 2584601.1501
1A-ST-ST-011	1A-STRM-2.0 STA: 17+22.58 OFFSET: -0.01 L	630.89	24" INV IN (W) = 628.33 24" INV OUT (E) = 628.333	N: 467752.3895 E: 2584535.0022
1A-ST-ST-012	1A-STRM-2.1.1 STA: 10+11.95 OFFSET: 0.00	638.04	3" INV IN (S) = 631.90 3" INV OUT (E) = 631.896	N: 467719.7080 E: 2585098.7559
1A-ST-ST-013	1A-STRM-2.1.1 STA: 10+32.87 OFFSET: 0.00	638.50	3" INV OUT (N) = 632.106	N: 467698.7877 E: 2585099.1877
1A-ST-ST-014	1A-STRM-2.2.1 STA: 10+42.74 OFFSET: 0.00	638.04	3" INV IN (S) = 630.58 3" INV OUT (W) = 630.582	N: 467717.9926 E: 2585015.6444
1A-ST-ST-015	1A-STRM-2.2.1 STA: 10+63.66 OFFSET: 0.00	638.50	3" INV OUT (N) = 630.792	N: 467697.0722 E: 2585016.0762
1A-ST-ST-016	1A-STRM-2.2.2 STA: 10+24.33 OFFSET: 0.00	638.04	3" INV IN (S) = 632.40 3" INV OUT (E) = 632.398	N: 467716.6087 E: 2584948.5964
1A-ST-ST-017	1A-STRM-2.2.2 STA: 10+45.25 OFFSET: 0.00	638.50	3" INV OUT (N) = 632.608	N: 467695.6884 E: 2584949.0283
1A-ST-ST-018	1A-STRM-2.3.1 STA: 10+20.28 OFFSET: 0.00	638.04	3" INV IN (S) = 632.90 3" INV OUT (E) = 632.901	N: 467711.4437 E: 2584698.3572
1A-ST-ST-019	1A-STRM-2.3.1 STA: 10+41.21 OFFSET: 0.00	638.50	3" INV OUT (N) = 633.110	N: 467690.5234 E: 2584698.7890
1A-ST-ST-020	1A-STRM-2.4 STA: 10+65.24 OFFSET: 0.00	638.50	3" INV OUT (N) = 629.689	N: 467689.3297 E: 2584640.9595
1A-ST-ST-021	1A-STRM-2.5.1 STA: 10+13.75 OFFSET: 0.00	638.04	3" INV IN (S) = 630.29 3" INV OUT (E) = 630.286	N: 467708.5863 E: 2584559.9168
1A-ST-ST-022	1A-STRM-2.5.1 STA: 10+34.68 OFFSET: 0.00	638.50	3" INV OUT (N) = 630.495	N: 467687.6659 E: 2584560.3486
1A-ST-ST-023	1A-STRM-2.8 STA: 11+76.26 OFFSET: 0.00	639.50	10" INV OUT (N) = 637.000	N: 467628.6845 E: 2584456.3688
1A-ST-ST-024	1A-STRM-2.8.1 STA: 10+15.85 OFFSET: 0.00	639.05	3" INV IN (N) = 635.52 3" INV OUT (S) = 635.515	N: 467650.8655 E: 2584352.1389
1A-ST-ST-025	1A-STRM-2.8.1 STA: 10+43.22 OFFSET: 0.00	638.67	3" INV IN (N) = 635.79 3" INV OUT (S) = 635.789	N: 467678.2347 E: 2584351.5740
1A-ST-ST-026	1A-STRM-2.8.1 STA: 10+58.14 OFFSET: 0.00	638.52	3" INV OUT (S) = 635.938	N: 467693.1482 E: 2584351.2662
1A-ST-ST-027	1A-STRM-2.8.2 STA: 10+08.51 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467626.5642 E: 2584353.6407
1A-ST-ST-028	1A-STRM-2.8.3 STA: 10+08.51 OFFSET: 0.00	639.54	10" INV OUT (N) = 637.000	N: 467627.2865 E: 2584388.6333
1A-ST-ST-029	1A-STRM-2.8.4 STA: 10+08.51 OFFSET: 0.00	639.80	10" INV OUT (N) = 637.000	N: 467628.3595 E: 2584440.6222
1A-ST-ST-030	1A-STRM-3.0 STA: 19+30.54 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467629.6909 E: 2584505.1085
1A-ST-ST-037	1A-STRM-3.2 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467643.9086 E: 2585193.9617
1A-ST-ST-038	1A-STRM-3.3 STA: 10+05.11 OFFSET: 0.00	639.91	10" INV OUT (N) = 637.000	N: 467643.0316 E: 2585151.4708
1A-ST-ST-039	1A-STRM-3.4 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467642.2578 E: 2585113.9788
1A-ST-ST-040	1A-STRM-3.5 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467641.1228 E: 2585058.9905
1A-ST-ST-041	1A-STRM-3.6 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467640.3489 E: 2585021.4985
1A-ST-ST-042	1A-STRM-3.7 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467639.4203 E: 2584976.5081
1A-ST-ST-043	1A-STRM-3.8 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467638.6981 E: 2584941.5155
1A-ST-ST-044	1A-STRM-3.9 STA: 10+05.11 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467637.9242 E: 2584904.0235
1A-ST-ST-045	1A-STRM-3.10 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467636.6035 E: 2584840.0371
1A-ST-ST-046	1A-STRM-3.11 STA: 10+05.10 OFFSET: 0.00	639.55	10" INV OUT (N) = 637.000	N: 467635.5202 E: 2584787.5483
1A-ST-ST-047	1A-STRM-3.12 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467634.7463 E: 2584750.0563

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-ST-048	1A-STRM-3.13 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467633.6113 E: 2584695.0680
1A-ST-ST-049	1A-STRM-3.14 STA: 10+05.10 OFFSET: 0.00	639.88	10" INV OUT (N) = 637.000	N: 467632.8375 E: 2584657.5760
1A-ST-ST-050	1A-STRM-3.15 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467631.9089 E: 2584612.5856
1A-ST-ST-051	1A-STRM-3.16 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467631.1866 E: 2584577.5930
1A-ST-ST-052	1A-STRM-3.17 STA: 10+05.10 OFFSET: 0.00	639.48	10" INV OUT (N) = 637.000	N: 467630.4128 E: 2584540.1010
1A-ST-ST-053	1A-STRM-4.0 STA: 20+13.86 OFFSET: 0.00	639.67	12" INV IN (W) = 635.41 12" INV OUT (SE) = 635.413	N: 467293.8650 E: 2584438.4941
1A-ST-ST-054	1A-STRM-4.0 STA: 20+28.36 OFFSET: 0.00	639.75	12" INV OUT (E) = 635.550	N: 467293.5658 E: 2584423.9972
1A-ST-ST-055	1A-STRM-4.3 STA: 10+29.77 OFFSET: 0.00 L	640.00	6" INV IN (W) = 635.25 6" INV OUT (N) = 635.246	N: 467254.8469 E: 2585209.2353
1A-ST-ST-056	1A-STRM-4.3 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV OUT (E) = 635.433	N: 467254.0743 E: 2585171.8018
1A-ST-ST-057	1A-STRM-4.4 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 634.417	N: 467318.3331 E: 2585195.6806
1A-ST-ST-058	1A-STRM-4.5 STA: 10+33.98 OFFSET: 0.08 R	639.49	10" INV OUT (S) = 637.000	N: 467317.5489 E: 2585157.6874
1A-ST-ST-059	1A-STRM-4.6 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (W) = 635.00 6" INV IN (E) = 635.00 6" INV OUT (N) = 634.996	N: 467253.5933 E: 2585148.4982
1A-ST-ST-060	1A-STRM-4.6 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV OUT (E) = 635.183	N: 467252.8207 E: 2585111.0647
1A-ST-ST-061	1A-STRM-4.7 STA: 10+33.98 OFFSET: 0.17 R	639.49	10" INV OUT (S) = 637.000	N: 467316.7235 E: 2585117.6960
1A-ST-ST-062	1A-STRM-4.8 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467316.1044 E: 2585087.7024
1A-ST-ST-063	1A-STRM-4.9 STA: 10+29.80 OFFSET: 0.00	640.00	6" INV IN (W) = 635.30 6" INV IN (E) = 635.30 6" INV OUT (N) = 635.300	N: 467252.3397 E: 2585087.7612
1A-ST-ST-064	1A-STRM-4.9 STA: 10+67.24 OFFSET: 0.00	640.00	6" INV OUT (E) = 635.487	N: 467251.5670 E: 2585050.3276
1A-ST-ST-065	1A-STRM-4.10 STA: 10+33.98 OFFSET: 0.08 R	639.49	10" INV OUT (S) = 637.000	N: 467315.0726 E: 2585037.7132
1A-ST-ST-066	1A-STRM-4.11 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (W) = 635.60 6" INV IN (E) = 635.60 6" INV OUT (N) = 635.603	N: 467251.0860 E: 2585027.0241
1A-ST-ST-067	1A-STRM-4.11 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV OUT (E) = 635.790	N: 467250.3134 E: 2584989.5906
1A-ST-ST-068	1A-STRM-4.12 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467314.2472 E: 2584997.7218
1A-ST-ST-069	1A-STRM-4.13 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (W) = 635.66 6" INV IN (E) = 635.66 6" INV OUT (N) = 635.657	N: 467249.8324 E: 2584966.2870
1A-ST-ST-070	1A-STRM-4.13 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV OUT (E) = 635.844	N: 467249.0598 E: 2584928.8535
1A-ST-ST-071	1A-STRM-4.14 STA: ??? OFFSET: ??? ???	639.49	10" INV OUT (S) = 637.000	N: 467313.6183 E: 2584958.2264
1A-ST-ST-072	1A-STRM-4.15 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 634.417	N: 467312.3986 E: 2584908.1585
1A-ST-ST-073	1A-STRM-4.16 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (W) = 635.96 6" INV IN (E) = 635.96 6" INV OUT (N) = 635.961	N: 467248.5788 E: 2584905.5500
1A-ST-ST-074	1A-STRM-4.16 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV OUT (E) = 636.148	N: 467247.8062 E: 2584868.1165
1A-ST-ST-075	1A-STRM-4.17 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 634.417	N: 467311.8679 E: 2584882.4486
1A-ST-ST-076	1A-STRM-4.18 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467310.9661 E: 2584838.7566
1A-ST-ST-077	1A-STRM-4.19 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 634.02 6" INV OUT (N) = 634.018	N: 467246.5525 E: 2584807.3794
1A-ST-ST-078	1A-STRM-4.19 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 634.21 6" INV OUT (W) = 634.205	N: 467247.3252 E: 2584844.8129
1A-ST-ST-079	1A-STRM-4.20 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467309.9343 E: 2584788.7673
1A-ST-ST-080	1A-STRM-4.21 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467309.1089 E: 2584748.7758
1A-ST-ST-081	1A-STRM-4.22 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 634.32 6" INV OUT (N) = 634.322	N: 467245.2989 E: 2584746.6423
1A-ST-ST-082	1A-STRM-4.22 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 634.51 6" INV OUT (W) = 634.509	N: 467246.0715 E: 2584784.0759
1A-ST-ST-083	1A-STRM-4.23 STA: 10+33.98 OFFSET: 0.08 R	639.49	10" INV OUT (S) = 637.000	N: 467308.4898 E: 2584718.7817
1A-ST-ST-084	1A-STRM-4.24 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 634.63 6" INV OUT (N) = 634.626	N: 467244.0453 E: 2584685.9053
1A-ST-ST-085	1A-STRM-4.24 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 634.81 6" INV OUT (W) = 634.813	N: 467244.8179 E: 2584723.3388
1A-ST-ST-086	1A-STRM-4.25 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467307.4580 E: 2584668.7928
1A-ST-ST-087	1A-STRM-4.26 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467306.8389 E: 2584638.7992
1A-ST-ST-088	1A-STRM-4.27 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 634.93 6" INV OUT (N) = 634.929	N: 467242.7917 E: 2584625.1682

STRUCTURE TABLE

STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-ST-ST-089	1A-STRM-4.27 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 635.12 6" INV OUT (W) = 635.117	N: 467243.5643 E: 2584662.6017
1A-ST-ST-090	1A-STRM-4.28 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467306.0135 E: 2584598.8078
1A-ST-ST-091	1A-STRM-4.29 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 635.23 6" INV OUT (W) = 635.233	N: 467241.5380 E: 2584564.4311
1A-ST-ST-092	1A-STRM-4.29 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 635.42 6" INV OUT (W) = 635.420	N: 467242.3107 E: 2584601.8647
1A-ST-ST-093	1A-STRM-4.30 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 636.000	N: 467305.1881 E: 2584558.8163
1A-ST-ST-094	1A-STRM-4.31 STA: 10+29.77 OFFSET: 0.00	640.00	6" INV IN (E) = 635.54 6" INV OUT (N) = 635.537	N: 467240.2844 E: 2584503.6941
1A-ST-ST-095	1A-STRM-4.31 STA: 10+67.21 OFFSET: 0.00	640.00	6" INV IN (E) = 635.72 6" INV OUT (W) = 635.724	N: 467241.0570 E: 2584541.1276
1A-ST-ST-096	1A-STRM-4.32 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467303.9499 E: 2584498.8290
1A-ST-ST-097	1A-STRM-4.33 STA: 10+33.98 OFFSET: 0.00	639.49	10" INV OUT (S) = 637.000	N: 467303.7436 E: 2584488.8312
1A-ST-ST-098	1A-STRM-5.17.2.1 STA: 10+52.04 OFFSET: 0.00	639.78	6" INV IN (W) = 633.42 6" INV OUT (E) = 633.424	N: 467115.3564 E: 2584540.9006
1A-ST-ST-099	1A-STRM-5.17.2.1 STA: 10+91.31 OFFSET: 0.00	639.39	6" INV OUT (E) = 633.640	N: 467114.5460 E: 2584501.6398
1A-ST-ST-100	1A-STRM-5.17.2.2 STA: 10+27.37 OFFSET: 0.00	639.91	6" INV IN (S) = 632.97 6" INV OUT (N) = 632.970	N: 467129.1144 E: 2584576.4465
1A-ST-ST-101	1A-STRM-5.17.2.2 STA: 10+66.31 OFFSET: 0.00	639.41	6" INV OUT (N) = 633.271	N: 467090.1852 E: 2584577.2500
1A-ST-ST-102	1A-STRM-5.25 STA: 10+88.98 OFFSET: 0.00	639.98	10" INV OUT (W) = 637.000	N: 467300.8855 E: 2584341.0852
1A-ST-ST-103	1A-STRM-16.0 STA: 10+47.18 OFFSET: 0.00



C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-3700 PROPOSED DAM 8/25/2025 11:04 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

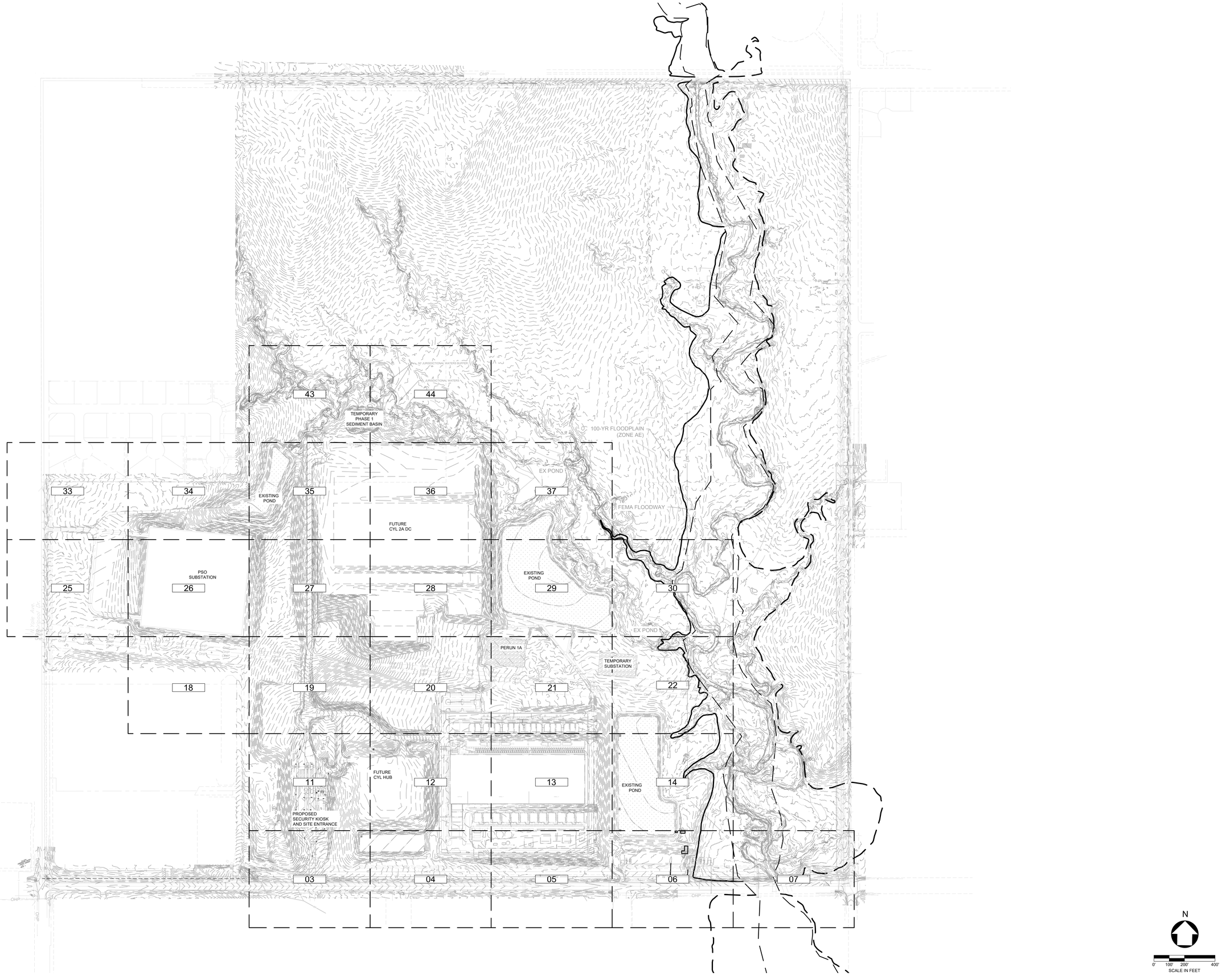
PROJ. NO.: 10434535

PROPOSED DAM

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-3700

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4100

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4111

MATCHLINE SEE SHEET 1A-C-4102

MATCHLINE SEE SHEET 1A-C-4104

LIMITS OF DISTURBANCE

EXISTING RIPRAP

SECURITY ENTRANCE PAD

EXISTING 20' SANITARY EASEMENT

25' TEMPORARY EASEMENT

EXISTING 40' WATERLINE EASEMENT

EXISTING 10' RWD EASEMENT

16.5' STATUTORY R.O.W.

E. 76TH ST. N.

LIMITS OF DISTURBANCE

EXISTING 100' ROW EASEMENT

FL SB DD CW JB CD CD WW CD CE SF CD FO

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
2. INSTALL CONSTRUCTION EXITS, TIRE WASH DOWN & FUEL STORAGE AREAS.
3. INSTALL PERIMETER EROSION CONTROL DEVICES AND INLET PROTECTION BMPS.
4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMPS.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\660057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL OKLAHOMA 04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

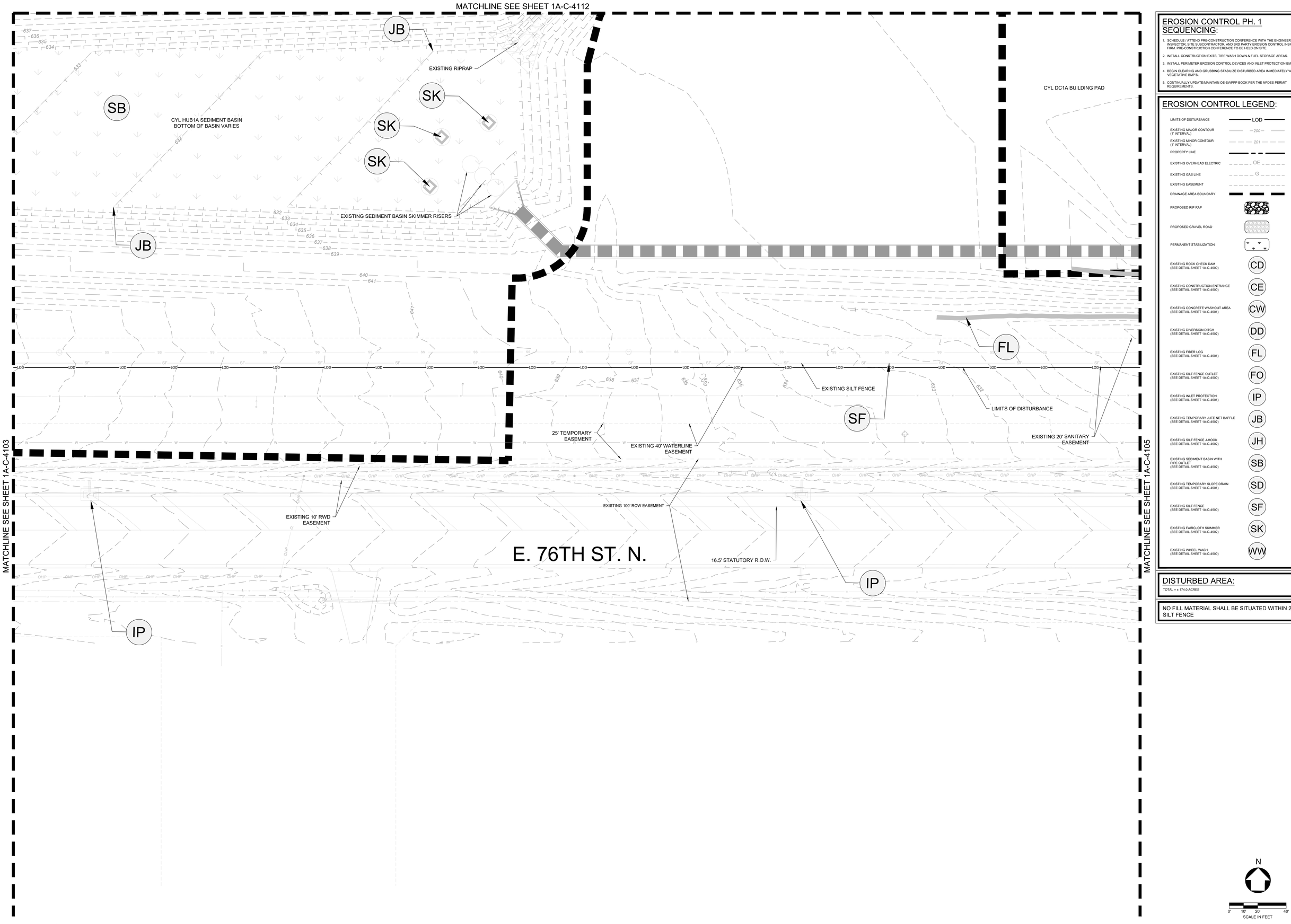
PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4103

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
2. INSTALL CONSTRUCTION EXITS, TIRE WASH DOWN & FUEL STORAGE AREAS.
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4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMP'S.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
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KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

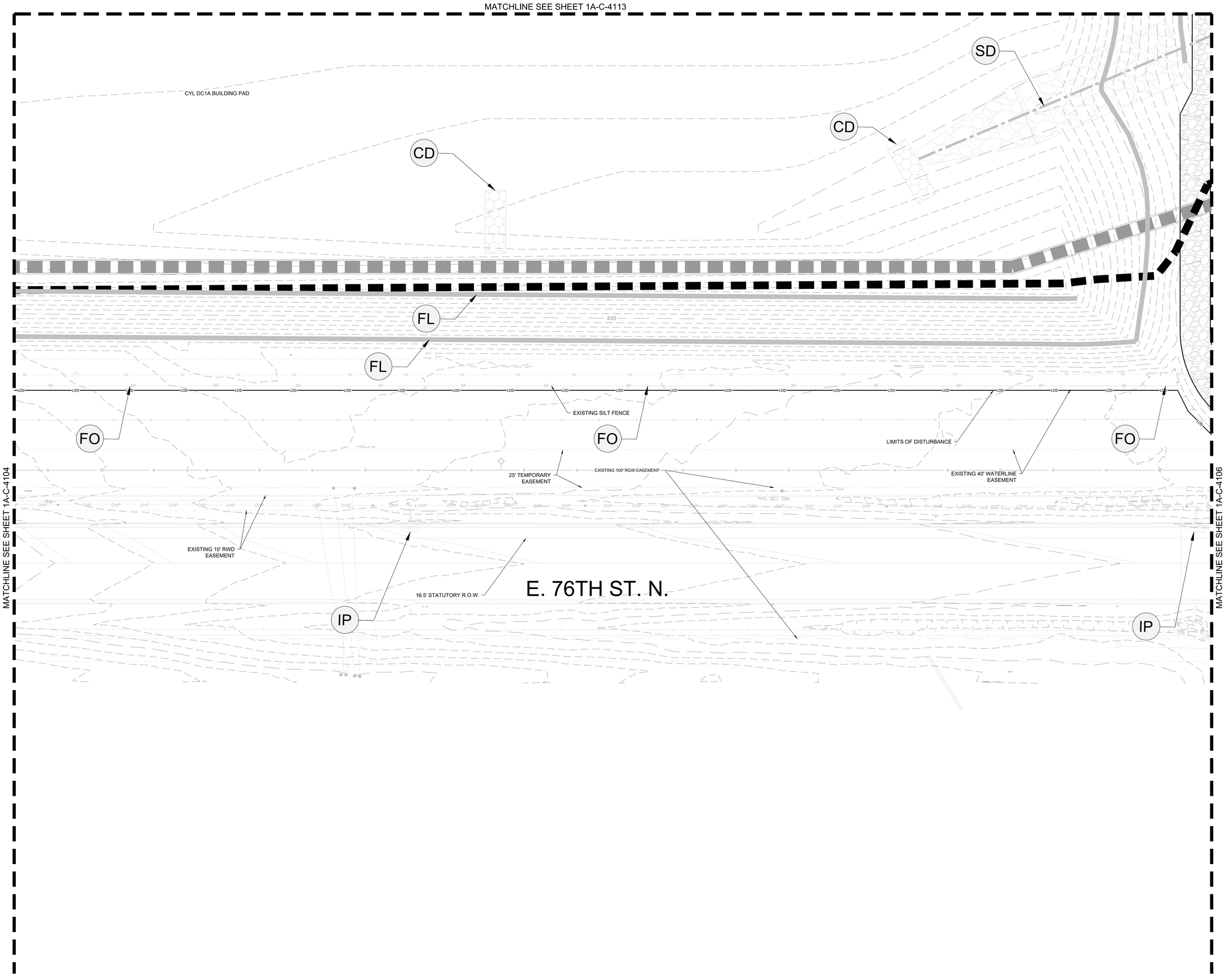
EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4104

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4114

MATCHLINE SEE SHEET 1A-C-4105

MATCHLINE SEE SHEET 1A-C-4107

SD

CD

CD

JH

SF

FO

EXISTING SILT FENCE

FEMA FLOODWAY

EXISTING CONCRETE SWALE

LIMITS OF DISTURBANCE

100-YR FLOODPLAIN
(ZONE AE)

EXISTING RIPRAP
APRON TO REMAIN

EXISTING 40' WATERLINE
EASEMENT

EXISTING 20' SANITARY
EASEMENT

25' TEMPORARY
EASEMENT

EXISTING 40' WATERLINE
EASEMENT

EXISTING 10' RWD
EASEMENT

EXISTING INLET PROTECTION

EXISTING 100' ROW EASEMENT

16.5' STATUTORY R.O.W.

E. 76TH ST. N.

EROSION CONTROL PH. 1 SEQUENCING:

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EXISTING MINOR CONTOUR (1' INTERVAL)	201
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EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
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EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4106 EROSION CONTROL PLAN 6/19/2025 6:16 PM

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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN D. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4106

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4115

MATCHLINE SEE SHEET 1A-C-4106

MATCHLINE SEE SHEET 1A-C-4108

FEMA FLOODWAY

20 FOOT SANITARY EASEMENT

FEMA FLOODWAY

JURISDICTIONAL WATERS.
NO IMPACT ZONE.

50' JURISDICTIONAL WATERS BUFFER

100-YR FLOODPLAIN
(ZONE AE)

EXISTING 20' SANITARY
EASEMENT

EXISTING SANITARY
SEWER

EXISTING 40' WATERLINE
EASEMENT

25' TEMPORARY
EASEMENT

EXISTING 100' ROW EASEMENT

60 FOOT DRAINAGE EASEMENT

EXISTING 10' RWD
EASEMENT

E. 76TH ST. N.

16.5' STATUTORY R.O.W.

16.5 FOOT STATUTORY R.O.W.

15' Utility Easement

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
2. INSTALL CONSTRUCTION EXITS, TIRE WASH DOWN & FUEL STORAGE AREAS.
3. INSTALL PERIMETER EROSION CONTROL DEVICES AND INLET PROTECTION BMP'S.
4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMP'S.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4106 EROSION CONTROL PLAN 6/19/2025 6:16 PM

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LICENSED PROFESSIONAL ENGINEER
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

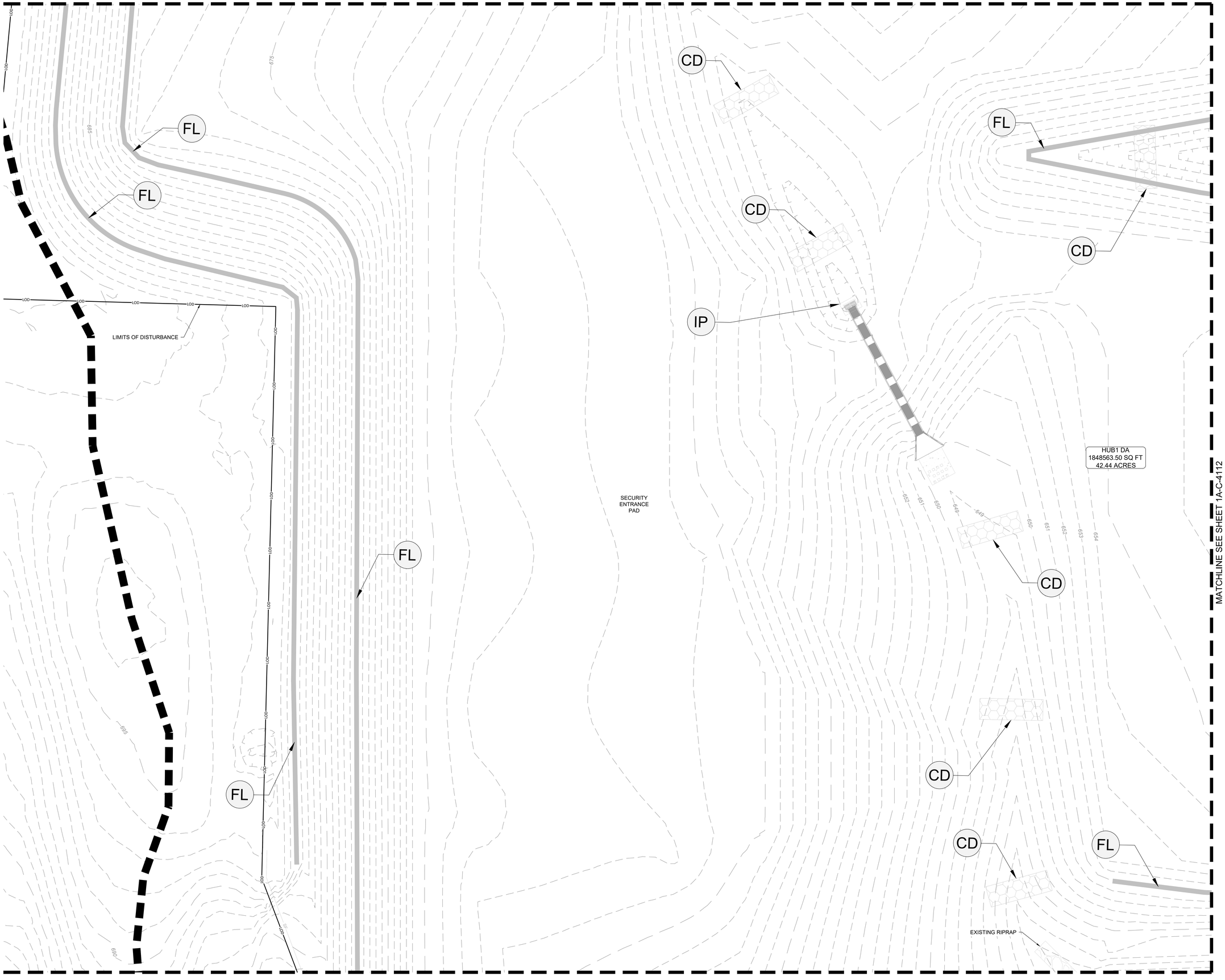
EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4107

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4119



MATCHLINE SEE SHEET 1A-C-4112

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

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OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

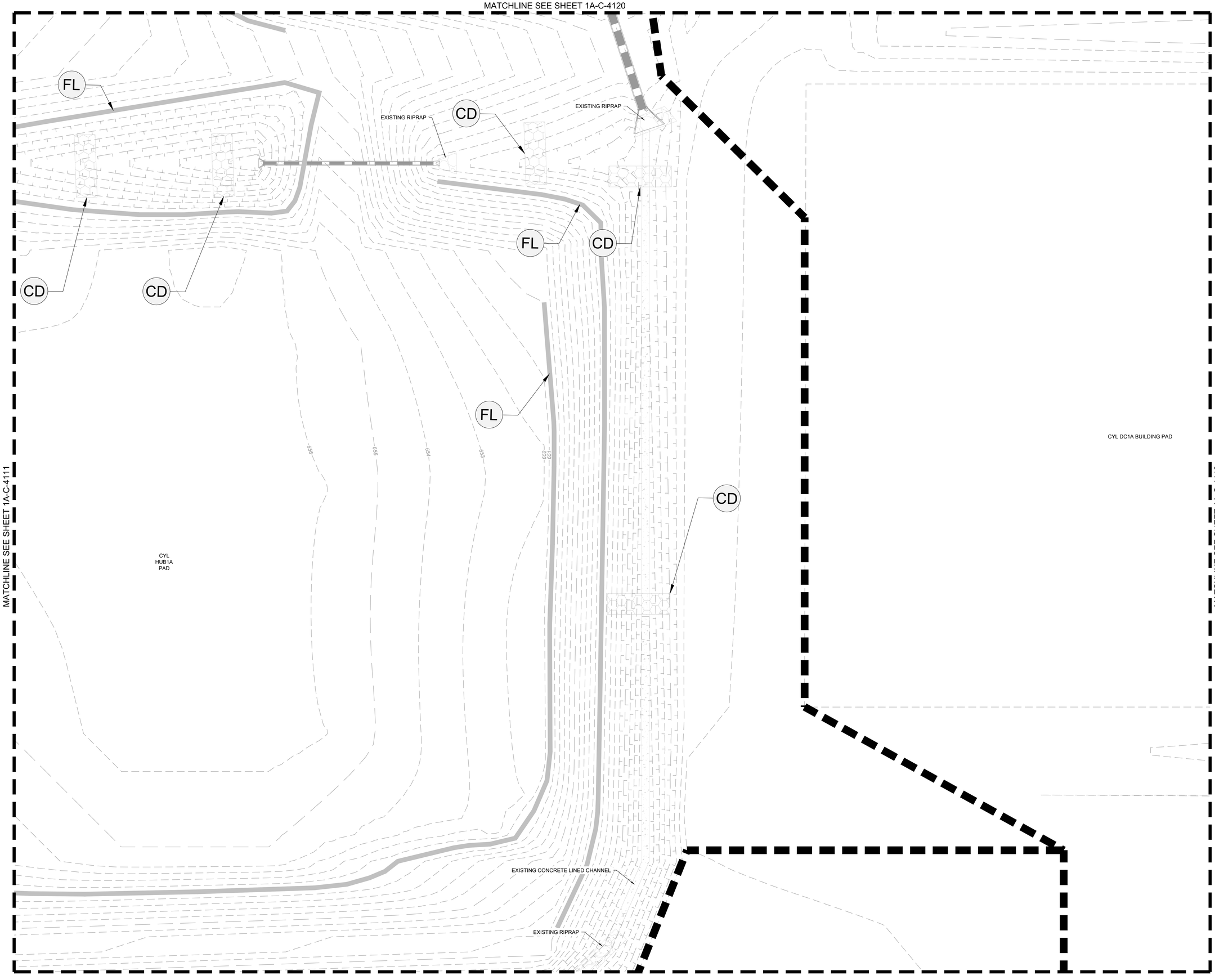
EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4120



MATCHLINE SEE SHEET 1A-C-4111

MATCHLINE SEE SHEET 1A-C-4113

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
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DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4112

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4121

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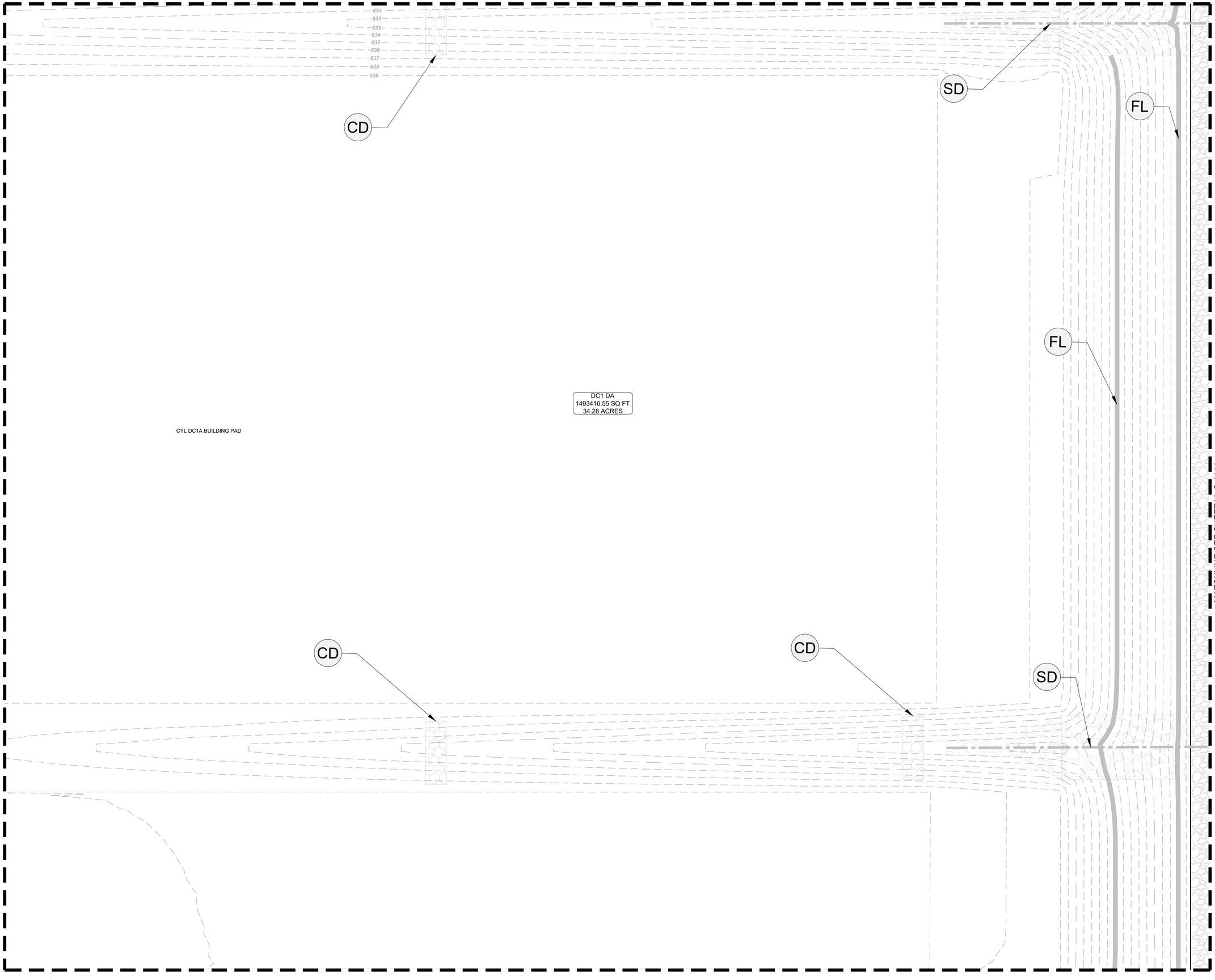

EROSION CONTROL PH. 1 SEQUENCING:

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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
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DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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N

0' 10' 20' 40'

SCALE IN FEET

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4122

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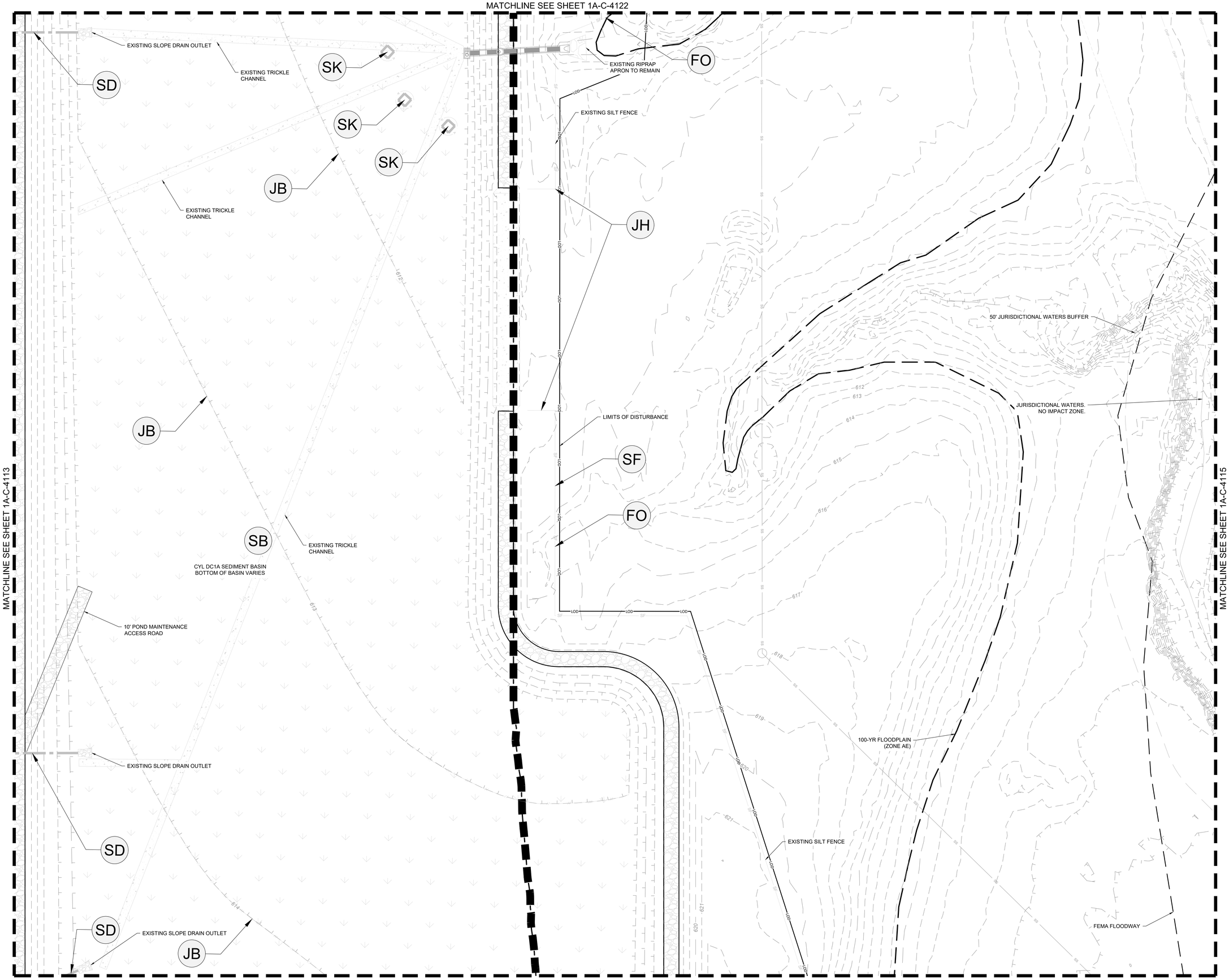
MATCHLINE SEE SHEET 1A-C-4115



EROSION CONTROL PH. 1 SEQUENCING:

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EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4114

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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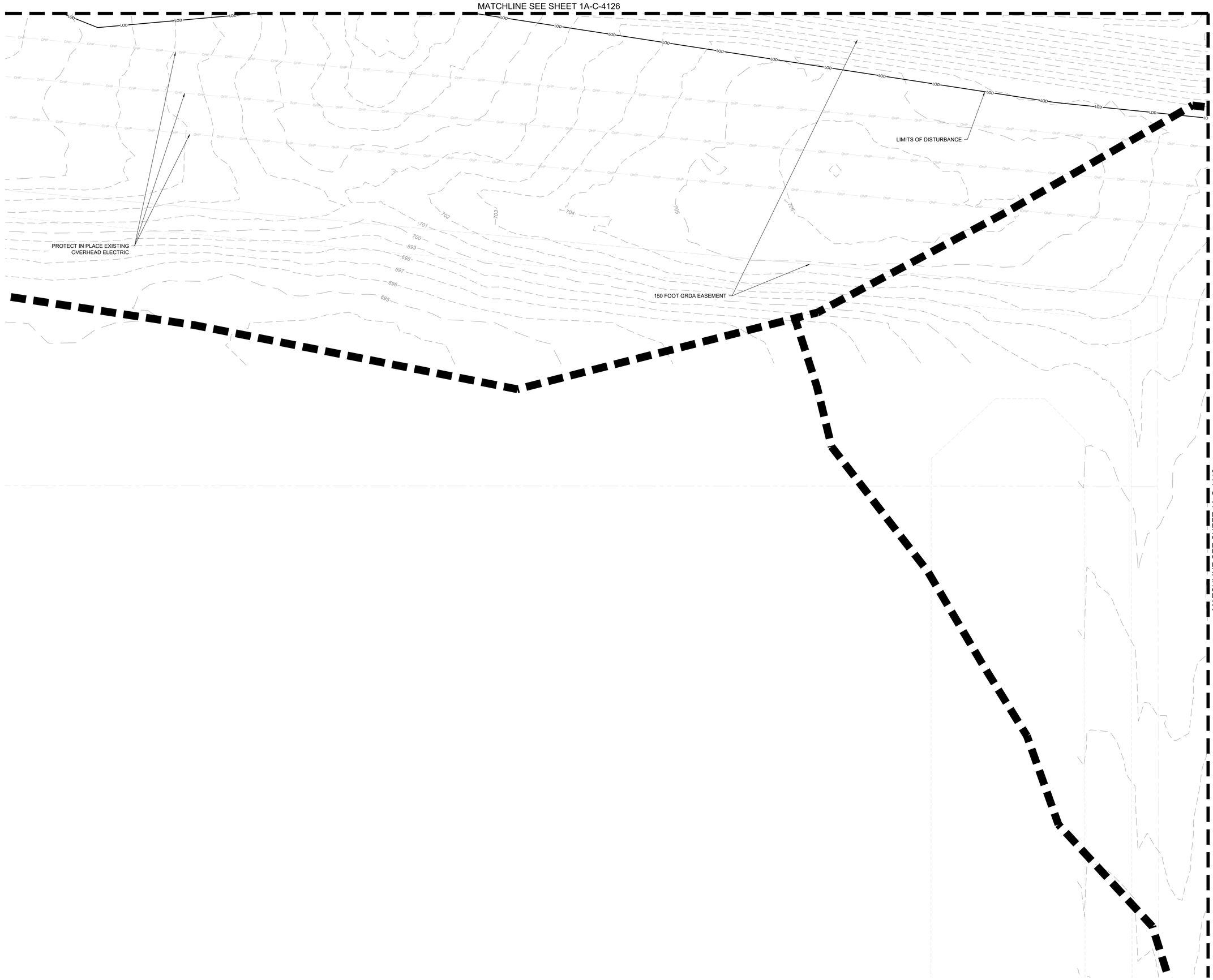

EROSION CONTROL PH. 1 SEQUENCING:

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EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCAACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

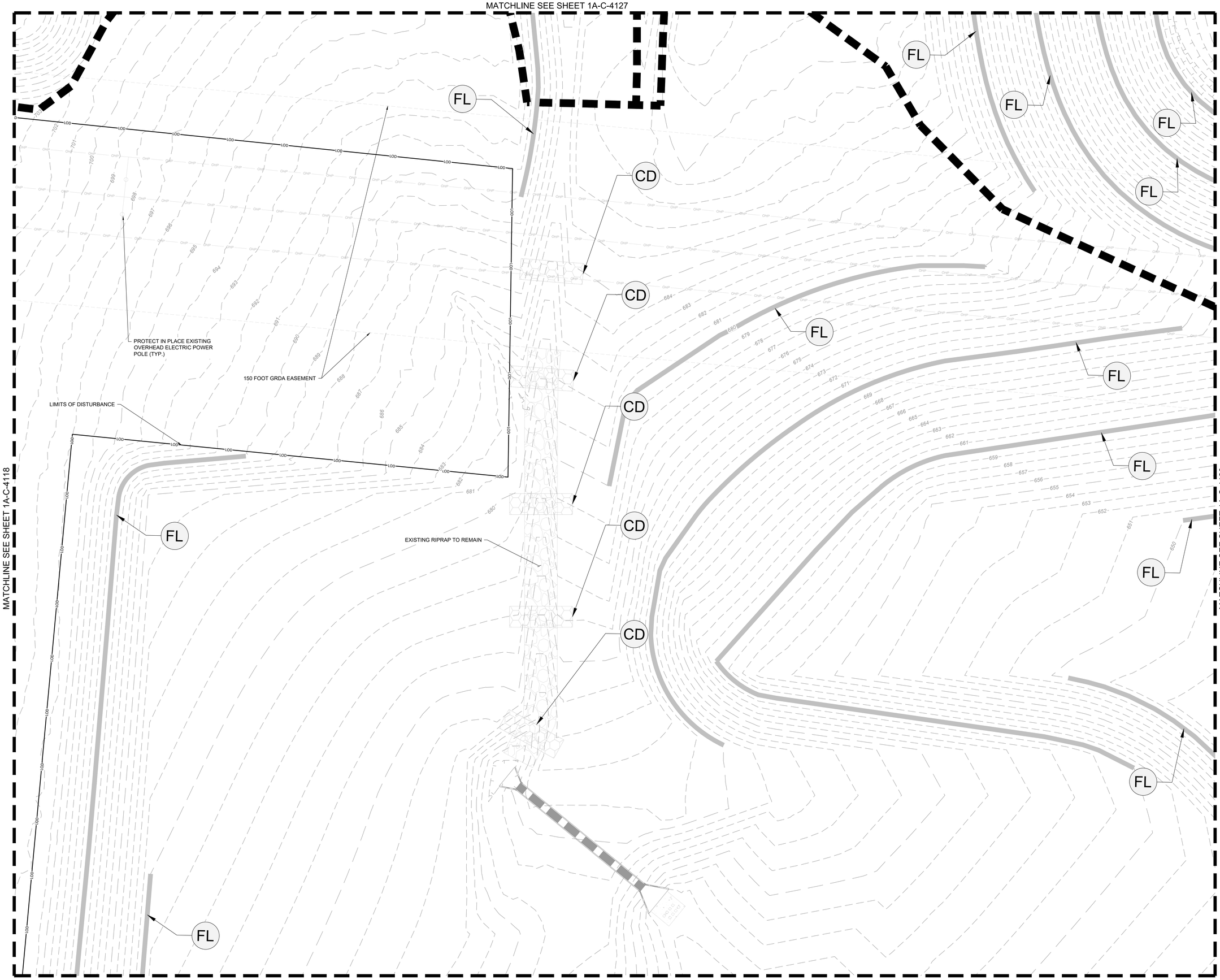
PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4118

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
2. INSTALL CONSTRUCTION EXITS, TIRE WASH DOWN & FUEL STORAGE AREAS.
3. INSTALL PERIMETER EROSION CONTROL DEVICES AND INLET PROTECTION BMP'S.
4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMP'S.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

Name
HDR, INC.
Address Line 1
4317 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

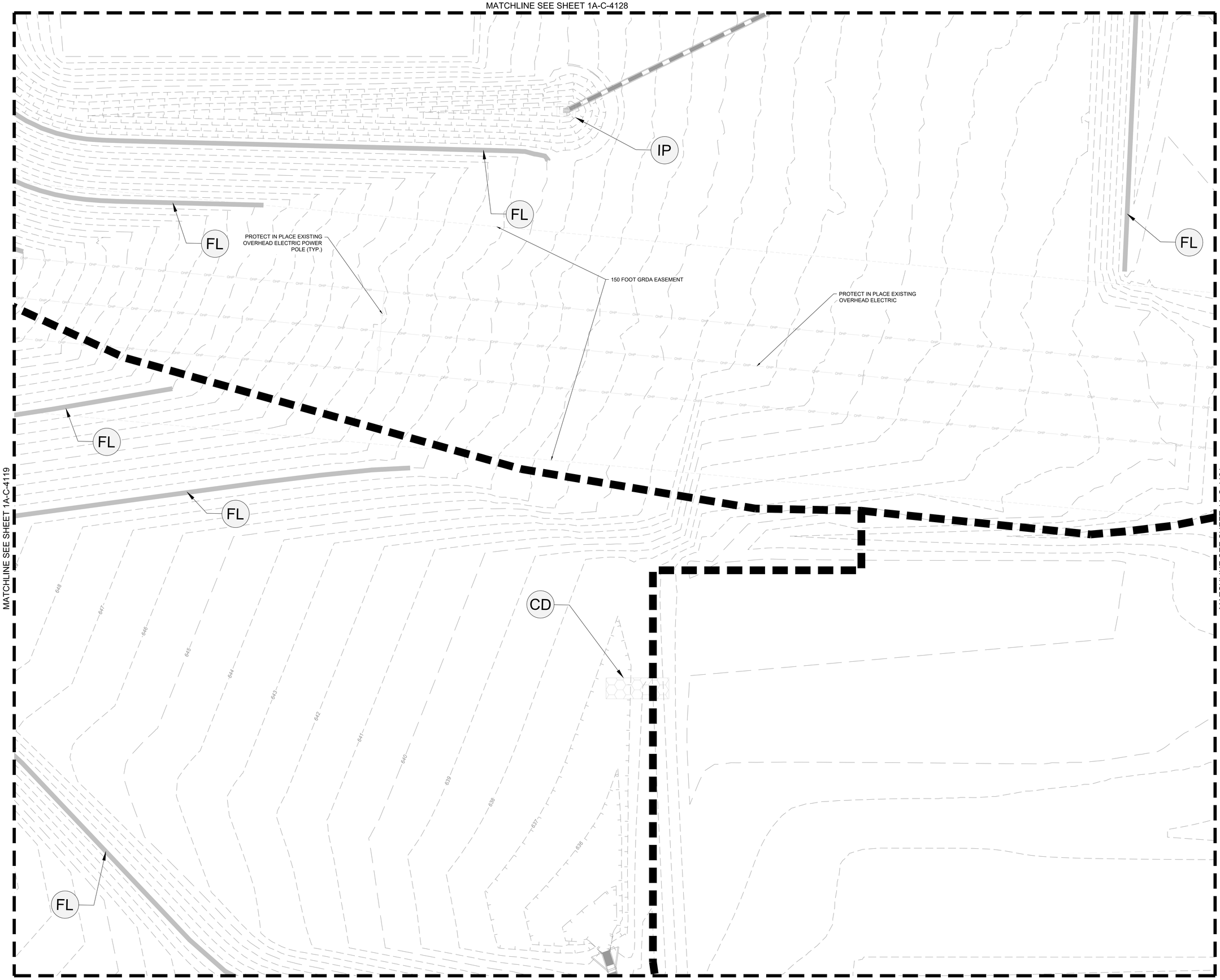
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4119
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4128



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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3. INSTALL PERIMETER EROSION CONTROL DEVICES AND INLET PROTECTION BMPS.
4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMPS.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
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EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCAACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

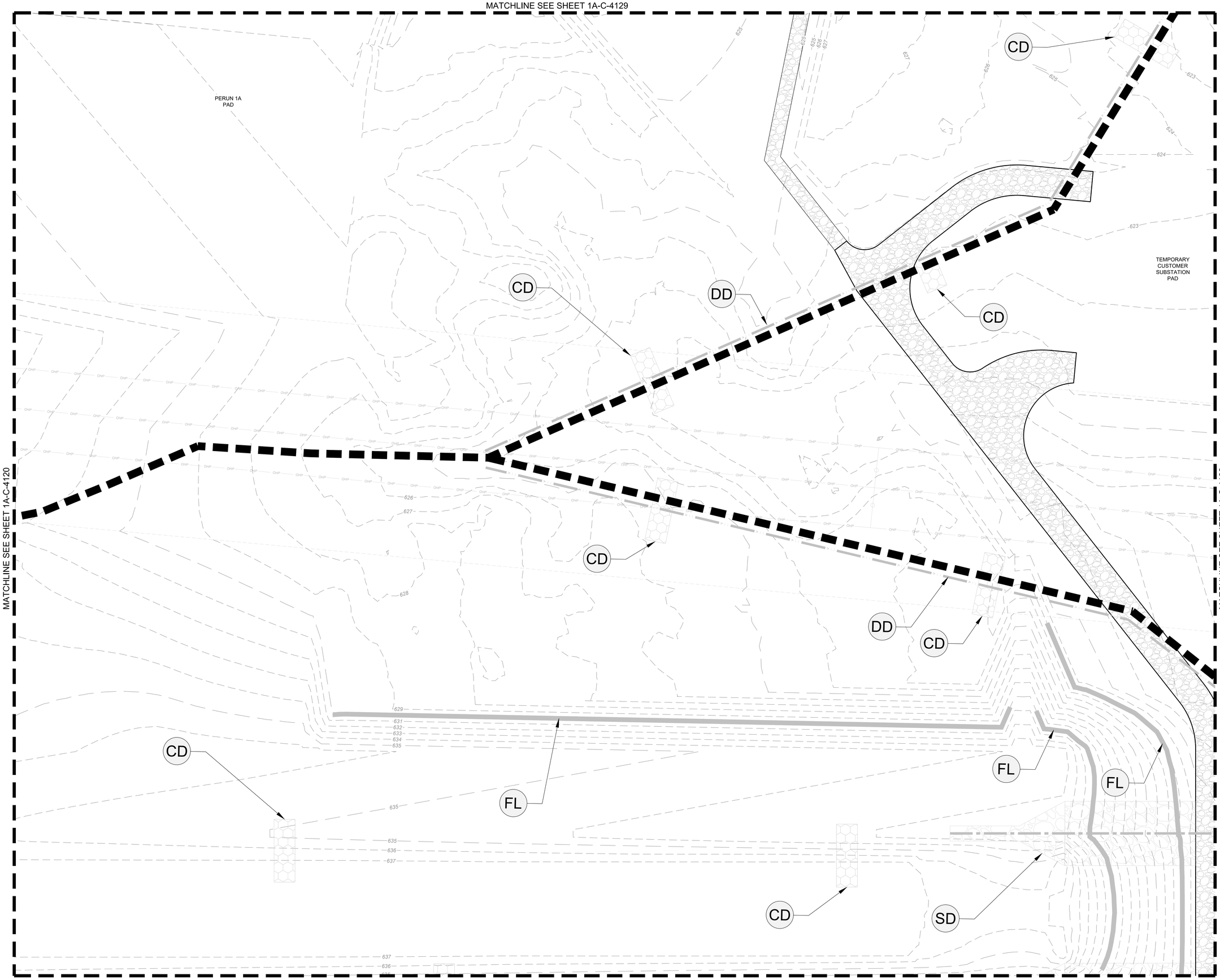
SHEET NUMBER:
1A-C-4120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4129

MATCHLINE SEE SHEET 1A-C-4120

MATCHLINE SEE SHEET 1A-C-4122



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4101 EROSION CONTROL PLAN 6/19/2025 6:08 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4130

MATCHLINE SEE SHEET 1A-C-4121

MATCHLINE SEE SHEET 1A-C-4123

EX. POND

LIMITS OF DISTURBANCE

50' JURISDICTIONAL WATERS BUFFER

JURISDICTIONAL WATERS.
NO IMPACT ZONE.

FEMA FLOODWAY

100-YR FLOODPLAIN
(ZONE AE)

EXISTING RIPRAP

EXISTING SLOPE DRAIN OUTLET

EXISTING TRICKLE
CHANNEL

SF

CD

DD

SD

SB

SK

SK

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
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EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4106 EROSION CONTROL PLAN 6/19/2025 6:16 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4133



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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LIMITS OF DISTURBANCE	LOD
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EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
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EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4125 EROSION CONTROL PLAN 6/19/2025 6:28 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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ADDENDUM #1

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

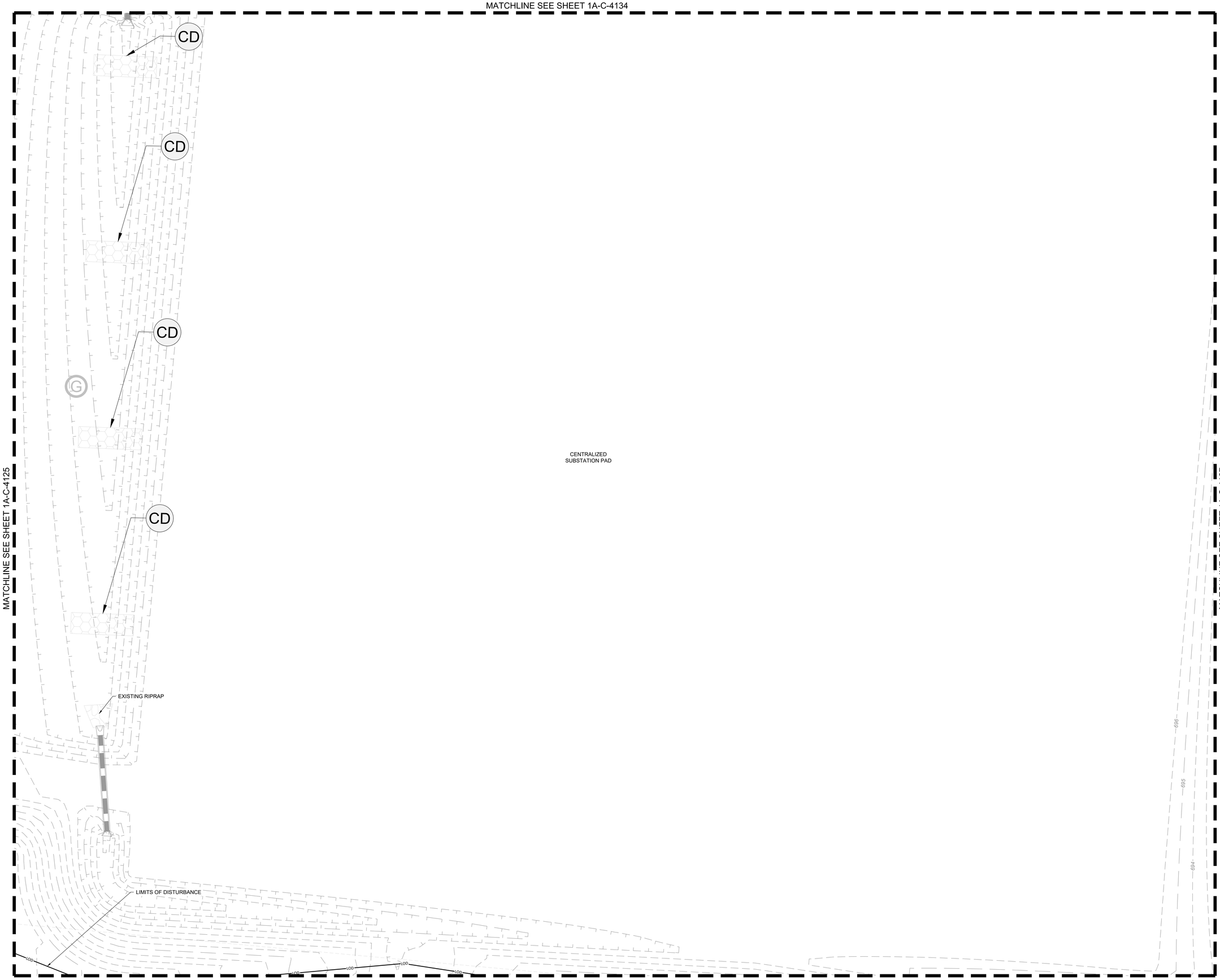
EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4125

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4134



MATCHLINE SEE SHEET 1A-C-4125

MATCHLINE SEE SHEET 1A-C-4127

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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EROSION CONTROL LEGEND:

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PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCA\CCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4125 EROSION CONTROL PLAN 6/19/2025 6:26 PM

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KIMLEY-HORN &
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

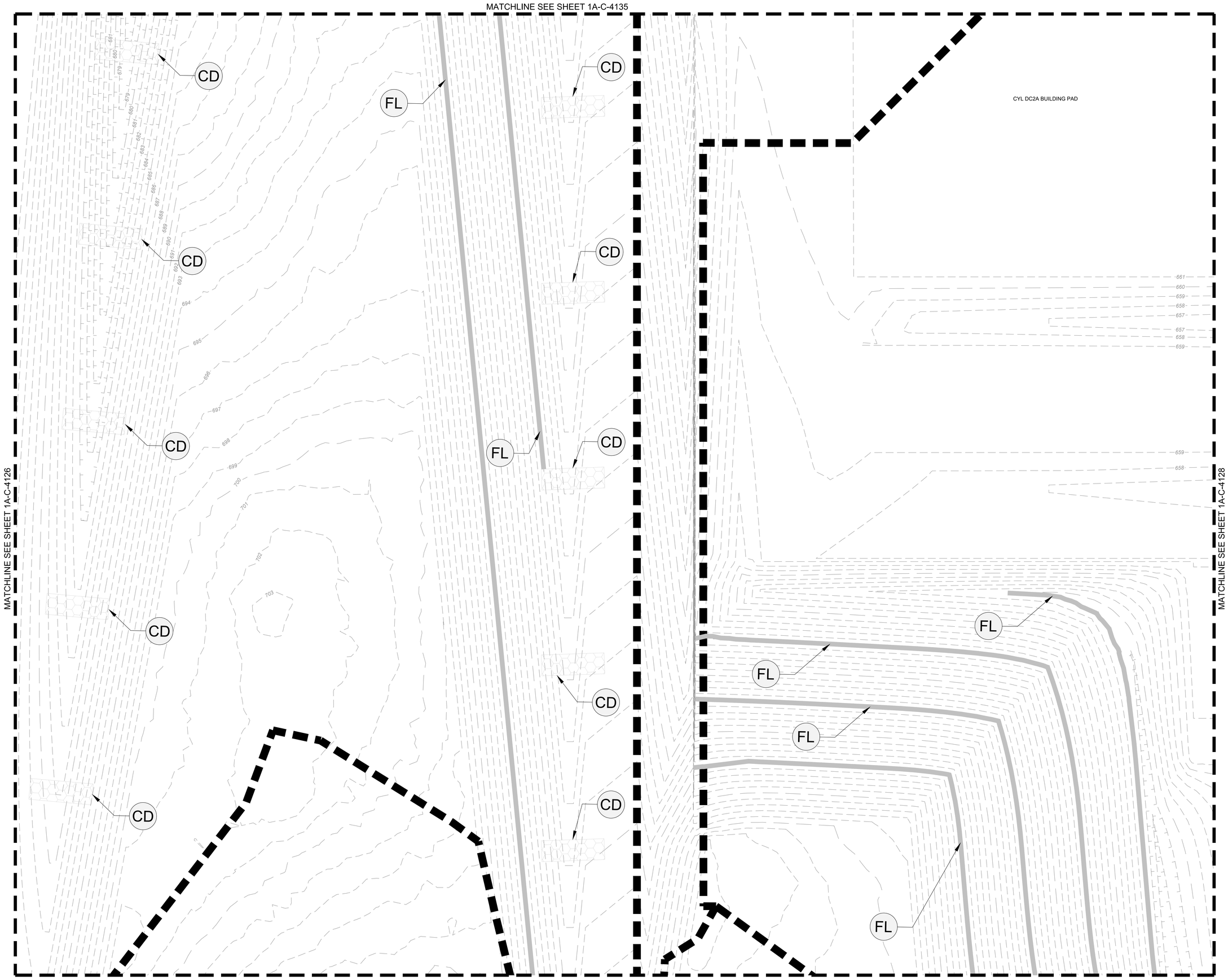
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4126

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4125 EROSION CONTROL PLAN 6/19/2025 6:26 PM

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL 32522 OKLAHOMA
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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

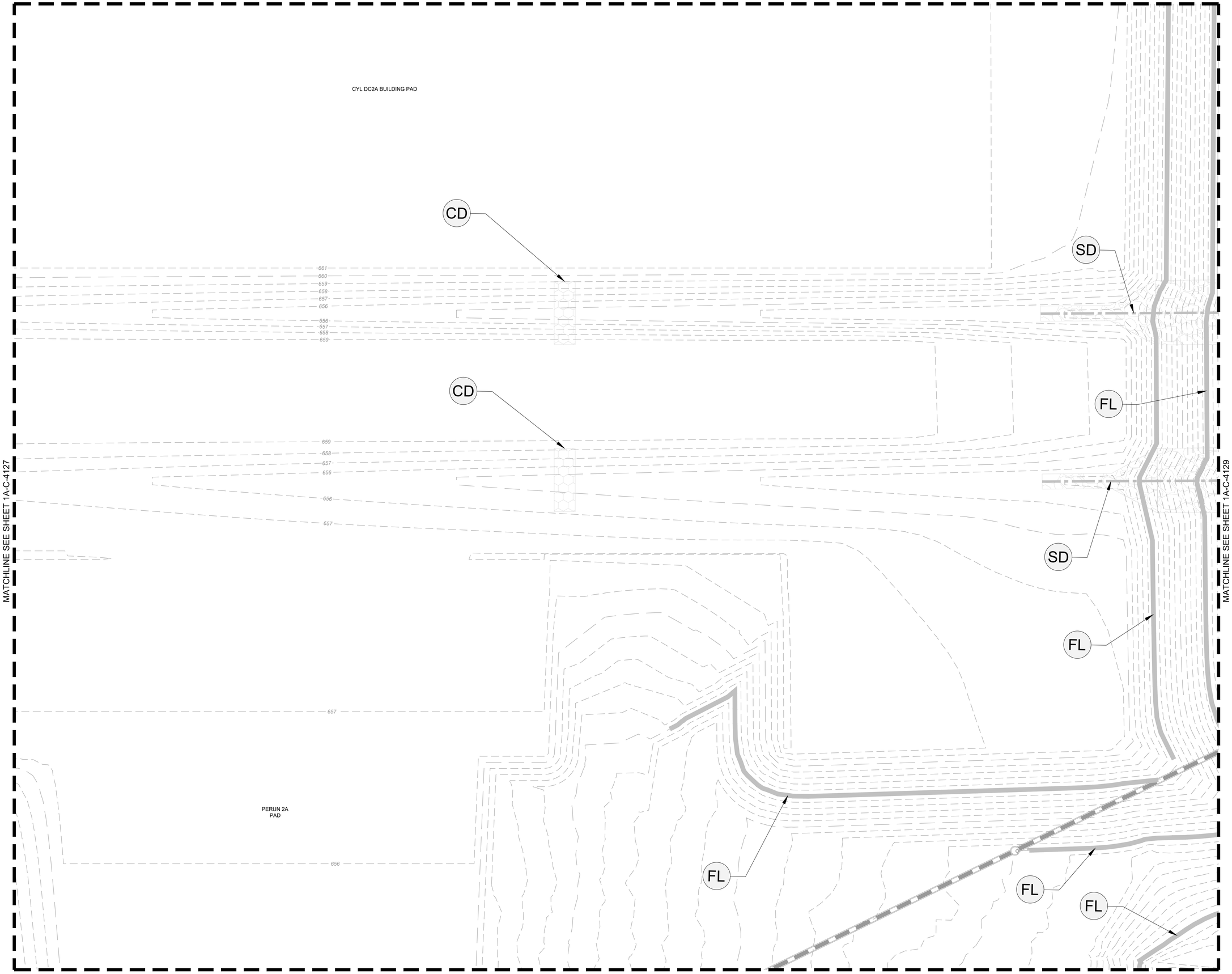
EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4127

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4136



MATCHLINE SEE SHEET 1A-C-4127

MATCHLINE SEE SHEET 1A-C-4129

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
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EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
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EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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N

0' 10' 20' 40'

SCALE IN FEET

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OKLAHOMA
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REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4128

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4137

MATCHLINE SEE SHEET 1A-C-4128

MATCHLINE SEE SHEET 1A-C-4130

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EXISTING TRICKLE CHANNEL

EXISTING RIPRAP APRON TO REMAIN

LIMITS OF DISTURBANCE

EXISTING TRICKLE CHANNEL

EXISTING TRICKLE CHANNEL

CYL DC2A SEDIMENT BASIN
BOTTOM OF BASIN VARIES

EXISTING SILT FENCE

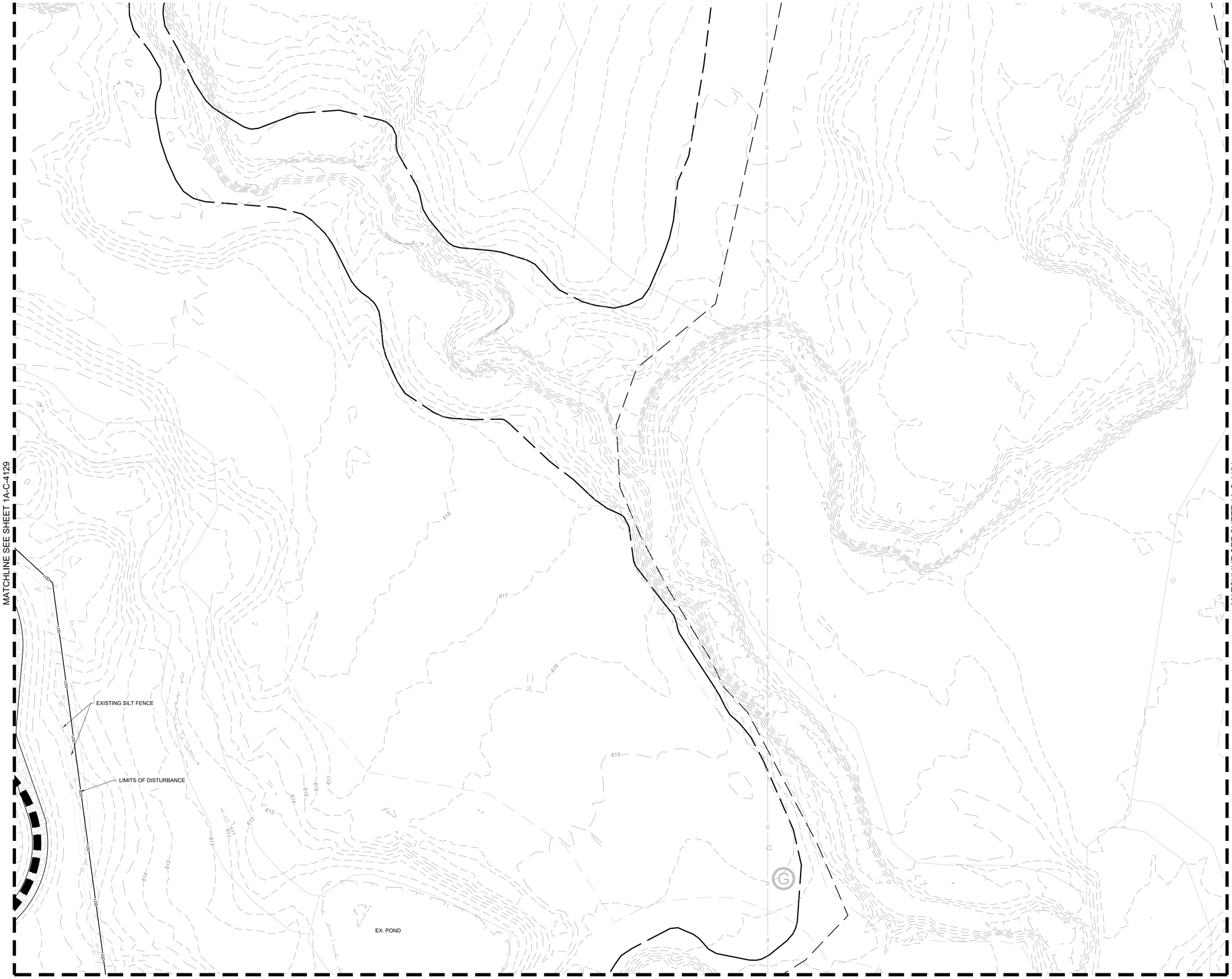
EXISTING TRICKLE CHANNEL

EXISTING RIPRAP APRON TO REMAIN

10' POND MAINTENANCE ACCESS ROAD

SK SK SK SK JB JB SD SD FL FL FL DD

100 100 100



EROSION CONTROL PH. 1 SEQUENCING:

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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING SILT FENCE OUTLET (SEE DETAIL SHEET 1A-C-4500)	FO
EXISTING INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SILT FENCE J-HOOK (SEE DETAIL SHEET 1A-C-4502)	JH
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'

SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

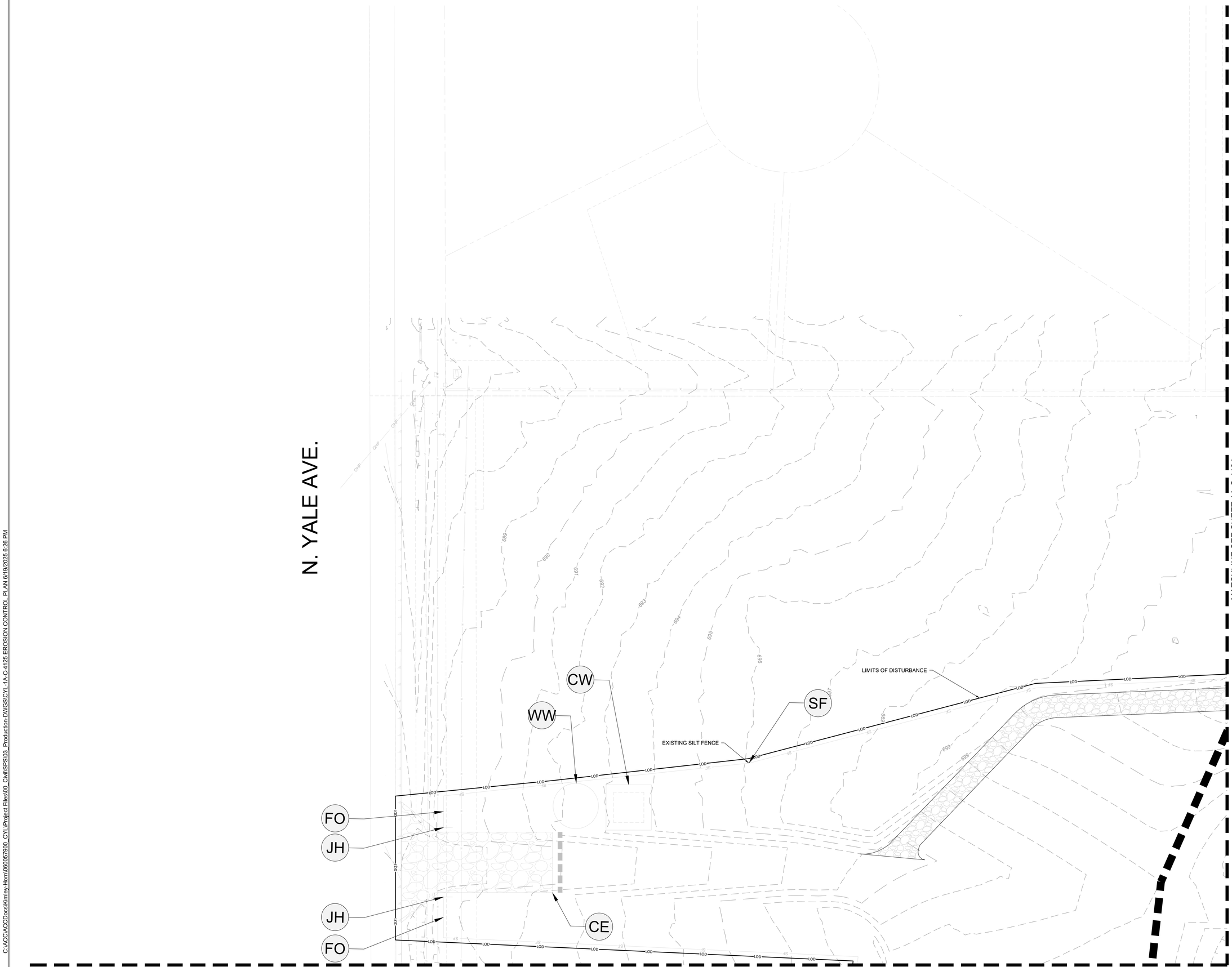
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4130

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 1 SEQUENCING:

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EROSION CONTROL LEGEND:

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EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
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DISTURBED AREA:

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

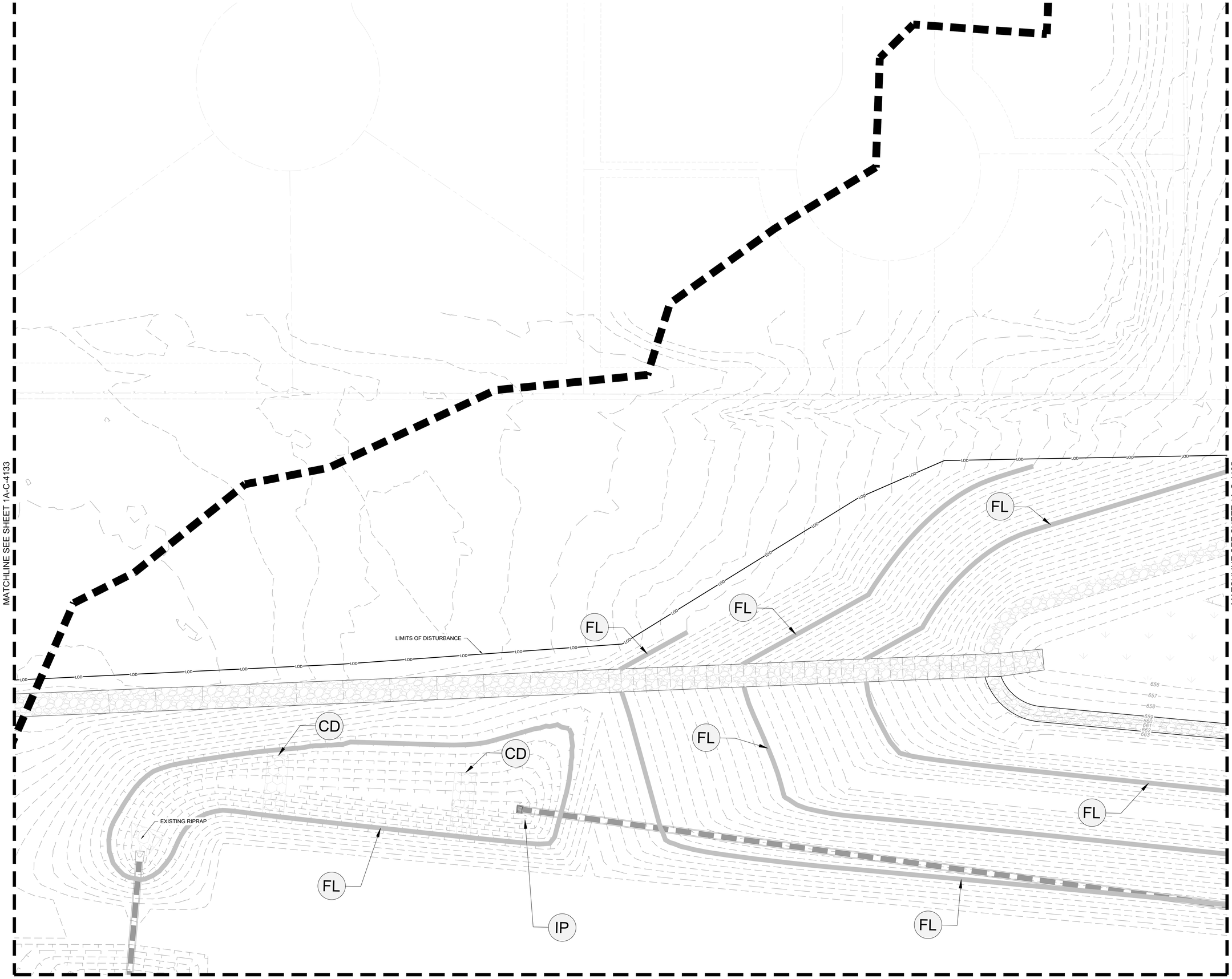
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4133

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 1 SEQUENCING:

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PROPOSED RIP RAP	
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PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
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HDR, INC.
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04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4134

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4143

MATCHLINE SEE SHEET 1A-C-4134

MATCHLINE SEE SHEET 1A-C-4136

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EXISTING EMERGENCY SPILLWAY

EXISTING RIPRAP

LIMITS OF DISTURBANCE

EXISTING TRICKLE CHANNEL

PSO SEDIMENT BASIN
BOTTOM OF BASIN VARIES

10' POND MAINTENANCE ACCESS ROAD

EXISTING RIPRAP

CYL DC2A BUILDING PAD

JH SF CD DD SK SB FL JB IP

EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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4. BEGIN CLEARING AND GRUBBING STABILIZE DISTURBED AREA IMMEDIATELY WITH VEGETATIVE BMP'S.
5. CONTINUALLY UPDATE/MAINTAIN OS-SWPPP BOOK PER THE NPDES PERMIT REQUIREMENTS.

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS
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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

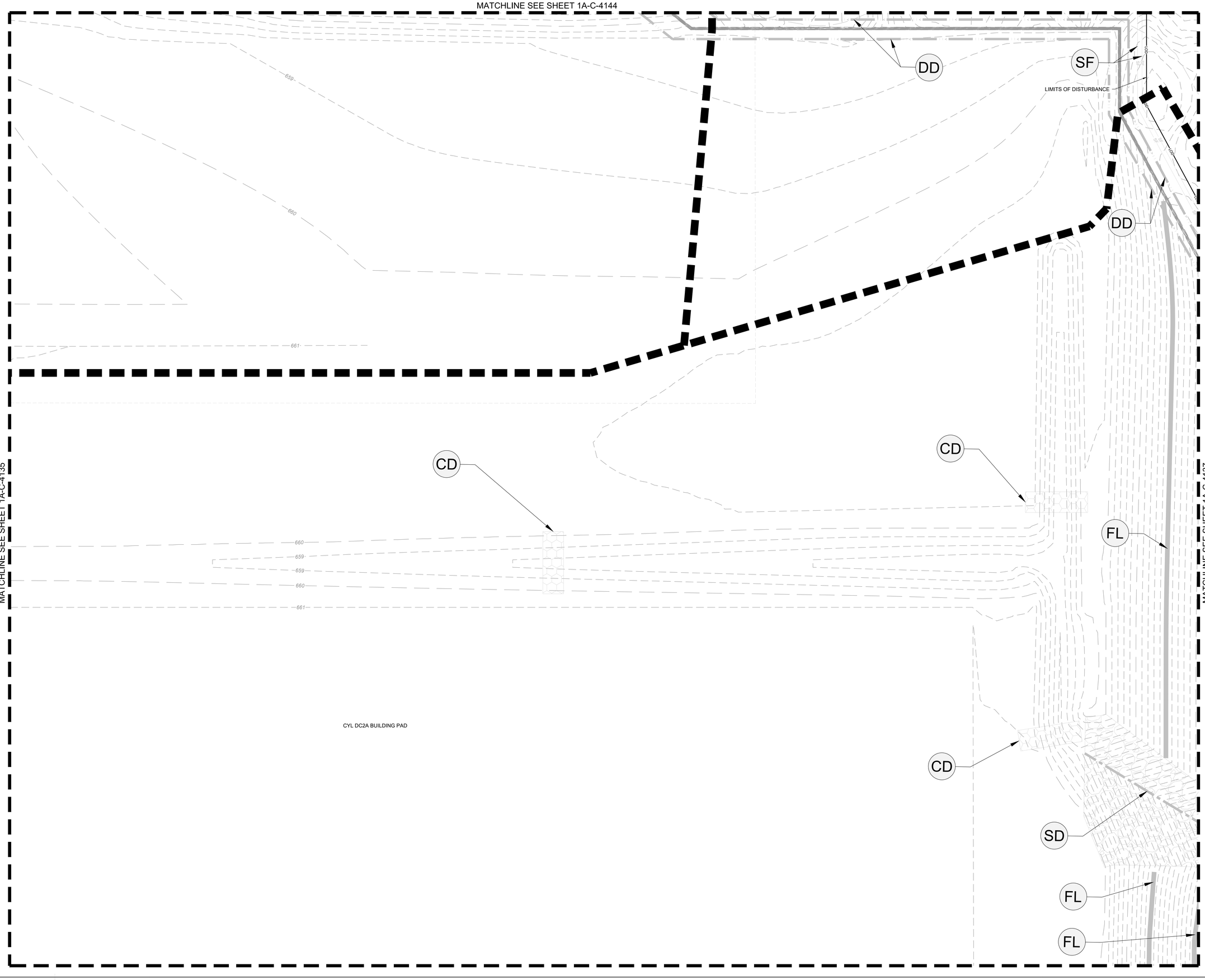
SHEET NUMBER:
1A-C-4135

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4144

MATCHLINE SEE SHEET 1A-C-4135

MATCHLINE SEE SHEET 1A-C-4137



EROSION CONTROL PH. 1 SEQUENCING:

1. SCHEDULE / ATTEND PRE-CONSTRUCTION CONFERENCE WITH THE ENGINEER, COUNTY INSPECTOR, SITE SUBCONTRACTOR, AND 3RD PARTY EROSION CONTROL INSPECTION FIRM. PRE-CONSTRUCTION CONFERENCE TO BE HELD ON SITE.
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PROPERTY LINE	
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EXISTING GAS LINE	G
EXISTING EASEMENT	
DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790O_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4125 EROSION CONTROL PLAN 6/19/2025 6:26 PM

HDR, INC.
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OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4136

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4145

MATCHLINE SEE SHEET 1A-C-4137

EX POND

CD

EXISTING SILT FENCE

FL

CD

DD

FL

LIMITS OF DISTURBANCE

EXISTING SILT FENCE

SD

100-YR FLOODPLAIN
(ZONE AE)

N

0' 10' 20' 40'
SCALE IN FEET

EROSION CONTROL PH. 1 SEQUENCING:

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DEVIN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4137

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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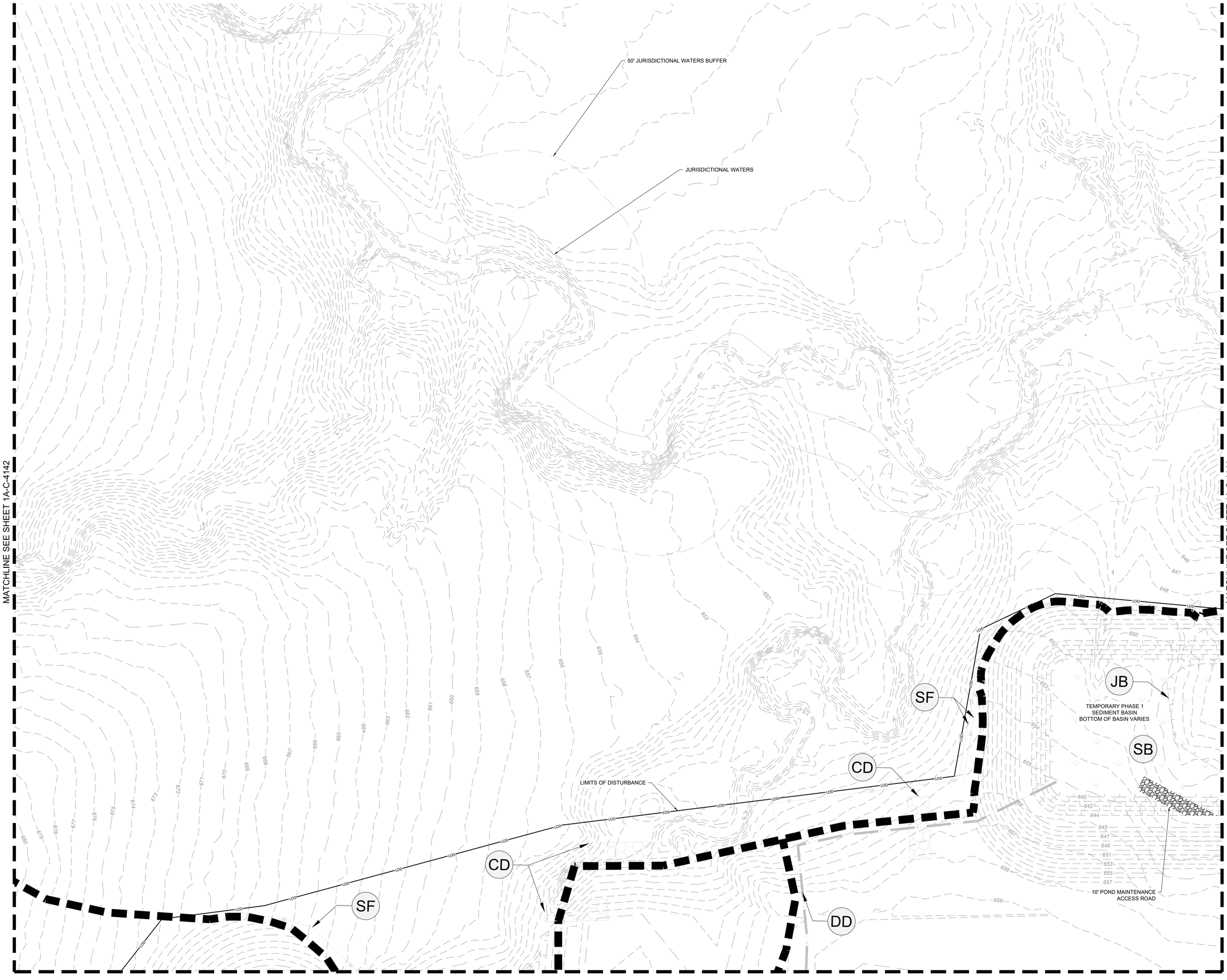

EROSION CONTROL PH. 1 SEQUENCING:

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PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
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SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4125 EROSION CONTROL PLAN 6/19/2025 6:26 PM

HDR, INC.
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OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 1

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4143

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4143

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50' JURISDICTIONAL WATERS BUFFER

JURISDICTIONAL WATERS

EXISTING RIPRAP

LIMITS OF DISTURBANCE

LOD

SK

SF

CD

DD

FL

EROSION CONTROL PH. 1 SEQUENCING:

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DRAINAGE AREA BOUNDARY	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
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DEAN RANDALL HALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA

04/09/2026

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DRAWN: JLF

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

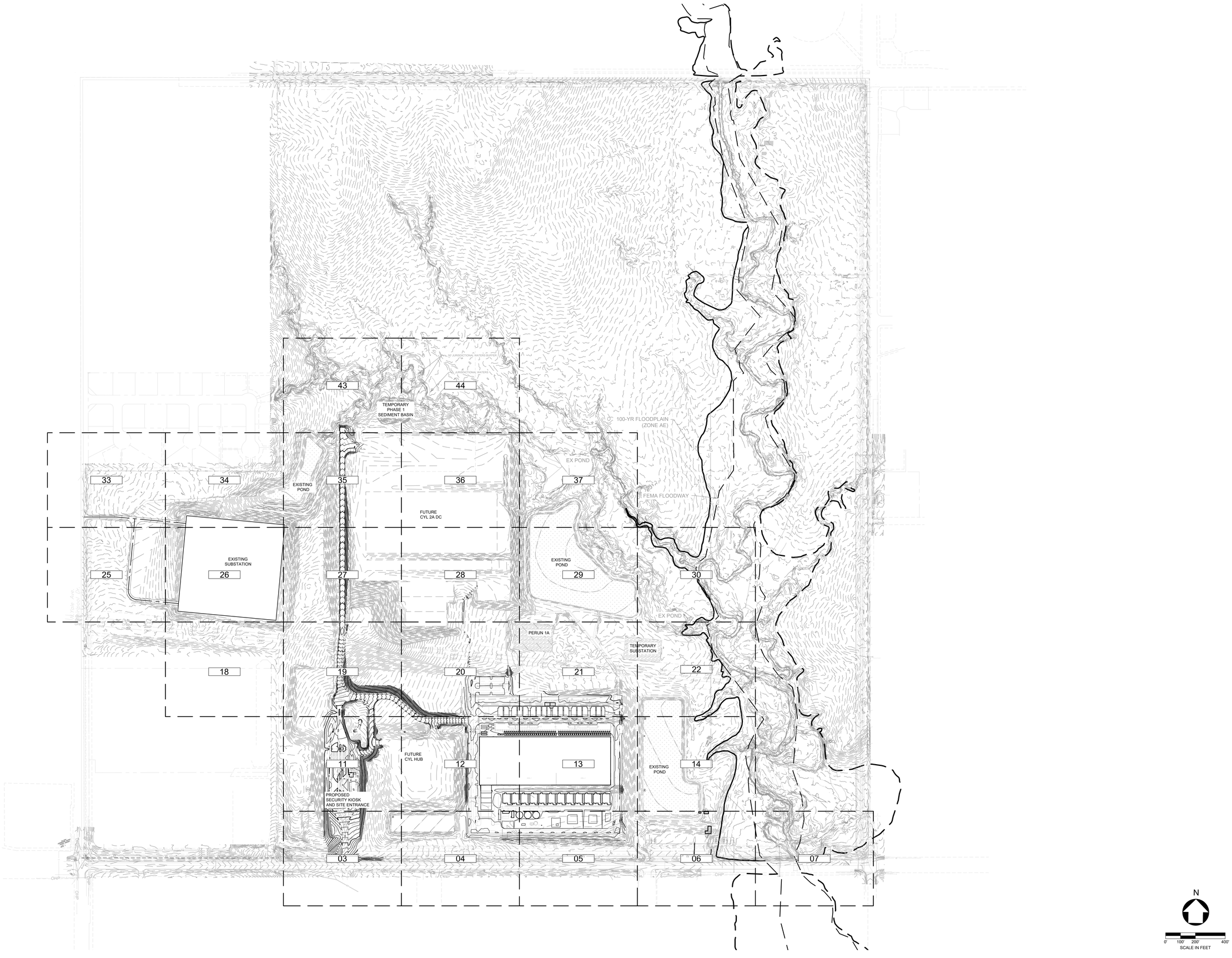
PROJ. NO.: 10434535

SCALE: AS SHOWN

EROSION CONTROL PLAN PHASE 1

SHEET NUMBER:
1A-C-4144

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
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DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2 - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4200

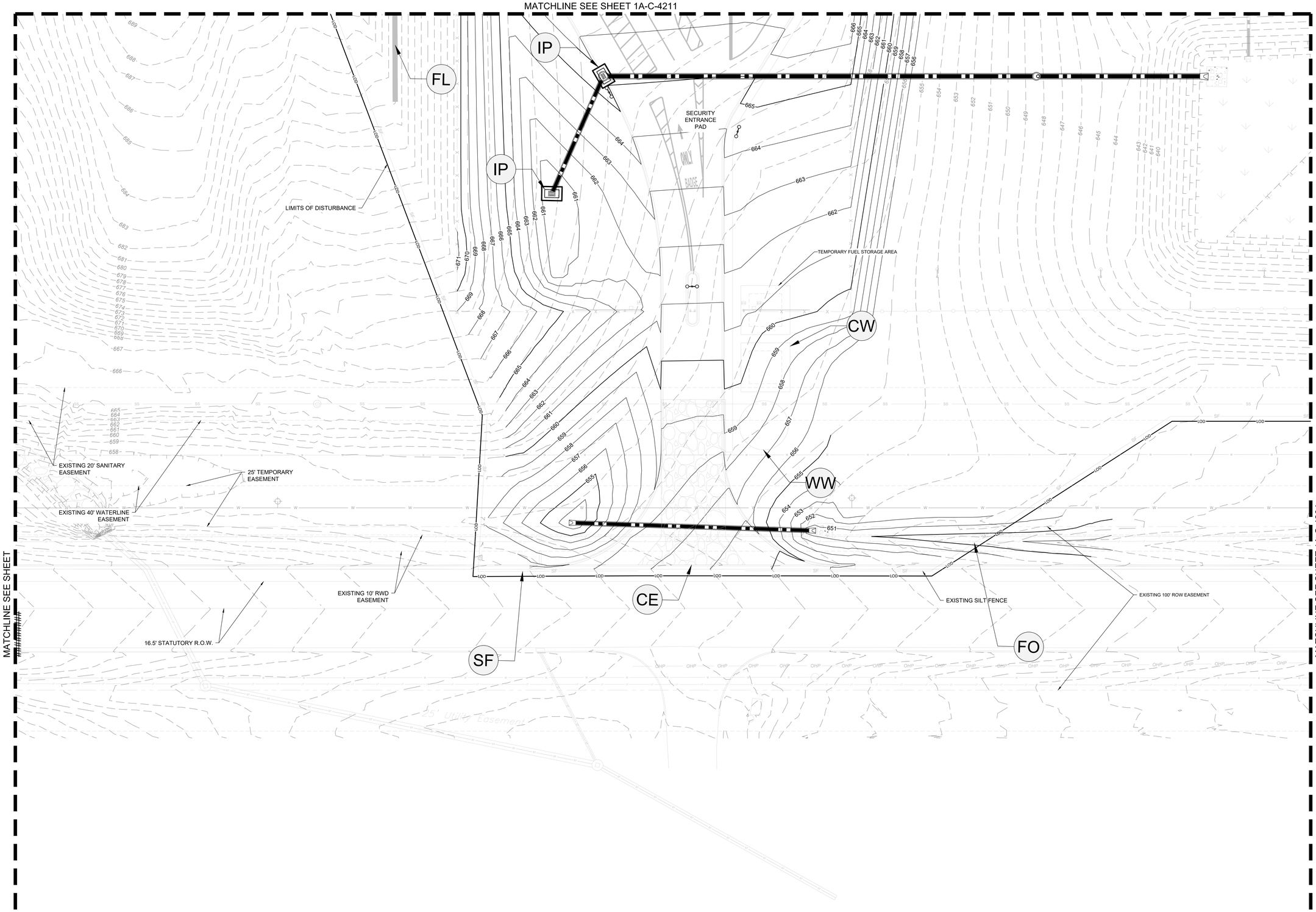
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4211

MATCHLINE SEE SHEET 1A-C-4204

MATCHLINE SEE SHEET ###-#####-##

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:13 AM



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
2. AS EARTHWORK ALLOWS, BEGIN INSTALLING STORMWATER PIPING AND INLETS.
3. INSTALL SITE UTILITIES. CONTRACTOR MAKE SURE TO LEAVE WATER AND SANITARY SEWER LINES EXPOSED AS NECESSARY UNTIL IT HAS BEEN APPROVED BY THE INSPECTOR.
4. AS CONSTRUCTION PROGRESSES AND SITE IS BROUGHT TO FINAL GRADES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATERS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
6. MAINTAIN DEVICES AS NEEDED. INLET PROTECTION SHALL REMAIN UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA IS STABILIZED. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 2" OR GREATER OR EVERY 7 CALENDAR DAYS. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
7. CONSTRUCT ROAD BASE COURSE AND INSTALL CURB AND GUTTER.
8. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS
9. CONTINUE TO MAINTAIN TEMPORARY EROSION CONTROL MEASURES PER OSEO.
10. INSTALL FINAL SLOPE STABILIZATION AS GRADES ARE FINALIZED.
11. INSTALL ASPHALT AND CONCRETE DRIVE AISLES AND ROADWAYS. MAKING SURE TO INSTALL AND MAINTAIN STORM INLET PROTECTION.
12. THE CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE PIPING AND FULLY STABILIZE.
13. CONTRACTOR SHALL REMOVE INLET PROTECTION FROM PROPOSED STORMWATER CONVEYANCE STRUCTURES ONCE PERMANENT STABILIZATION IS ACHIEVED.
14. AFTER ALL UPSTREAM DRAINAGE AREAS HAVE BEEN STABILIZED OR DIVERTED INTO ANOTHER SEDIMENT BASIN AND FINAL VEGETATION HAS BEEN ESTABLISHED ON THE SLOPES OF THE POND, REMOVE AND LEGALLY DISPOSE OF ALL SEDIMENT IN THE BASIN, AND ESTABLISH FINAL GROUND COVER AND CONVERT THE BASINS TO PERMANENT DETENTION PONDS (REFER TO DETENTION POND SHEETS).

EROSION CONTROL LEGEND:

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OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

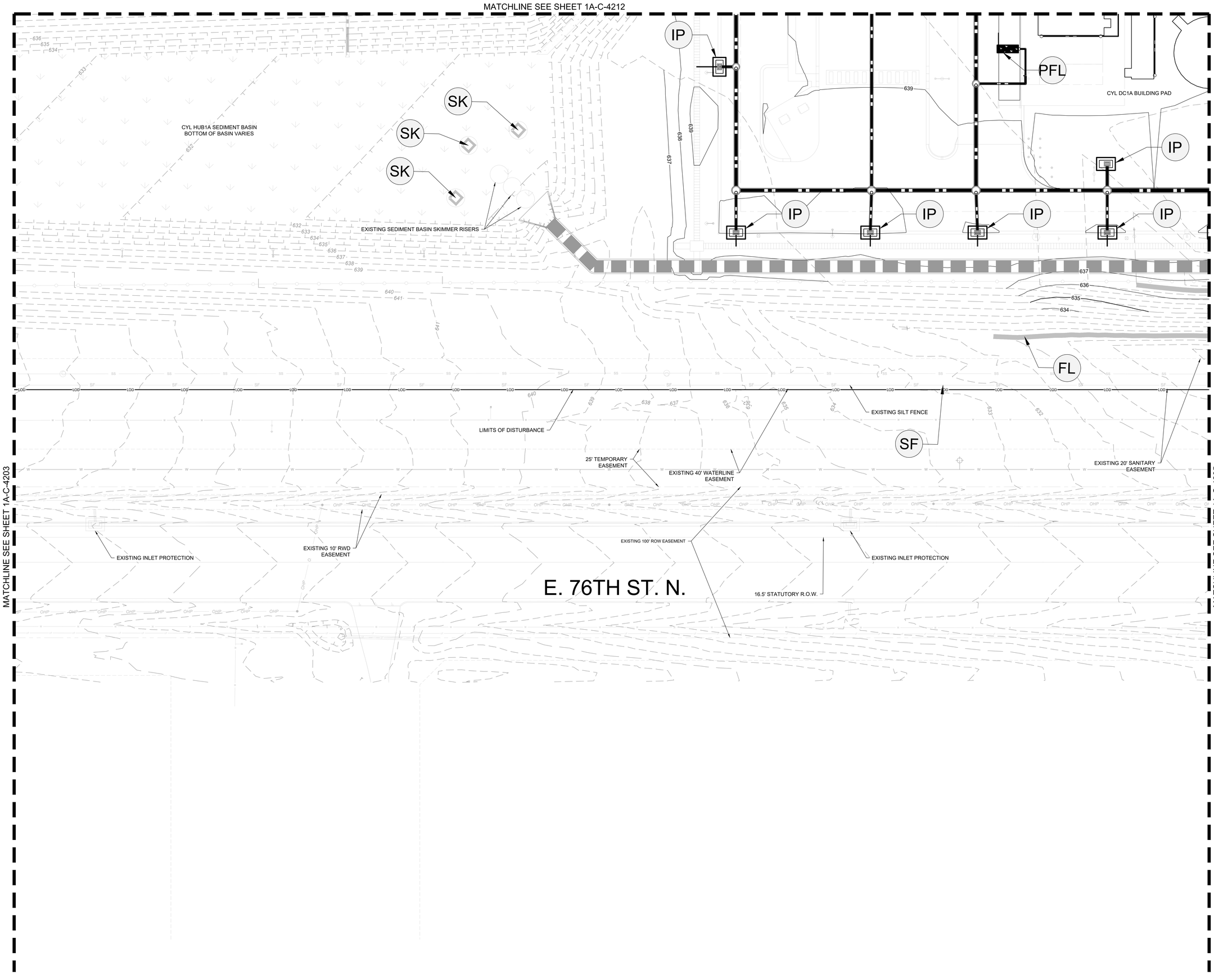
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4203

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
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N

0' 10' 20' 40'

SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:13 AM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

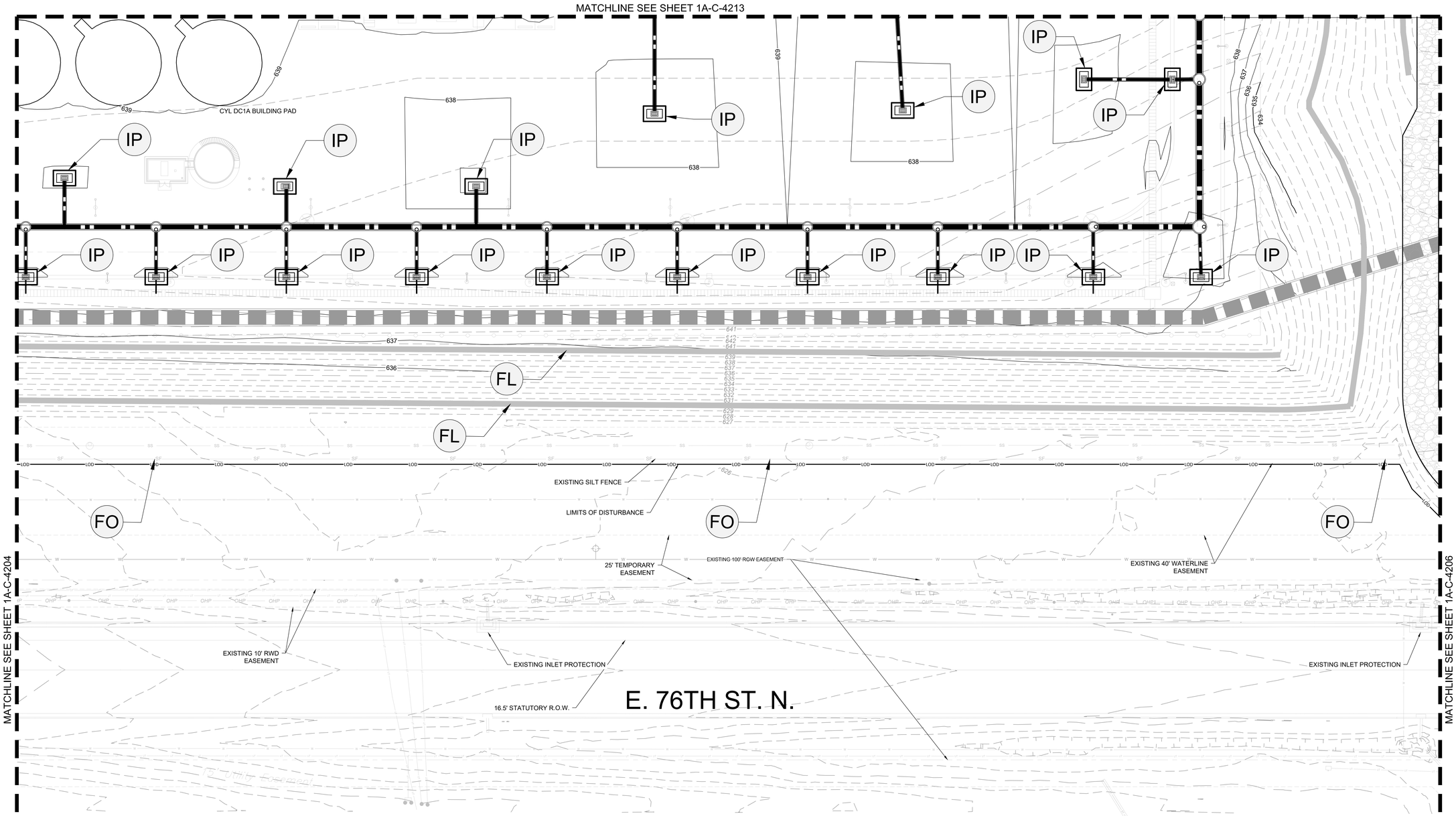
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4204

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



C:\ACCA\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:13 AM

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EROSION CONTROL LEGEND:

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EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
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EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

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NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4205

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4214

MATCHLINE SEE SHEET 1A-C-4205

MATCHLINE SEE SHEET 1A-C-4207

EXISTING SILT FENCE

FEMA FLOODWAY

EXISTING CONCRETE SWALE. SEE MASS GRADING PLAN.

LIMITS OF DISTURBANCE

EXISTING RIPRAP

EXISTING 40' WATERLINE EASEMENT

EXISTING 20' SANITARY EASEMENT

EXISTING 100' ROW EASEMENT

25' TEMPORARY EASEMENT

EXISTING 40' WATERLINE EASEMENT

EXISTING 10' RWD EASEMENT

16.5' STATUTORY R.O.W.

EXISTING INLET PROTECTION

E. 76TH ST. N.

EROSION CONTROL PH. 2 SEQUENCING:

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EXISTING GAS LINE	G
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PROPOSED GRAVEL ROAD	
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N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2.72/21/2025 11:15 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4206

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET #########

MATCHLINE SEE SHEET 1A-C-4206

MATCHLINE SEE SHEET 1A-C-4208

JURISDICTIONAL WATERS.
NO IMPACT ZONE.

50' JURISDICTIONAL WATERS BUFFER

FEMA FLOODWAY

FEMA FLOODWAY

100-YR FLOODPLAIN
(ZONE AE)

40 FOOT WATERLINE EASEMENT

EXISTING 20' SANITARY
EASEMENT

EXISTING SANITARY
SEWER

EXISTING 40' WATERLINE
EASEMENT

25' TEMPORARY
EASEMENT

EXISTING 100' ROW EASEMENT

60 FOOT DRAINAGE EASEMENT

EXISTING 10' RWD
EASEMENT

E. 76TH ST. N.

16.5' STATUTORY R.O.W.

EROSION CONTROL PH. 2 SEQUENCING:

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PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:15 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

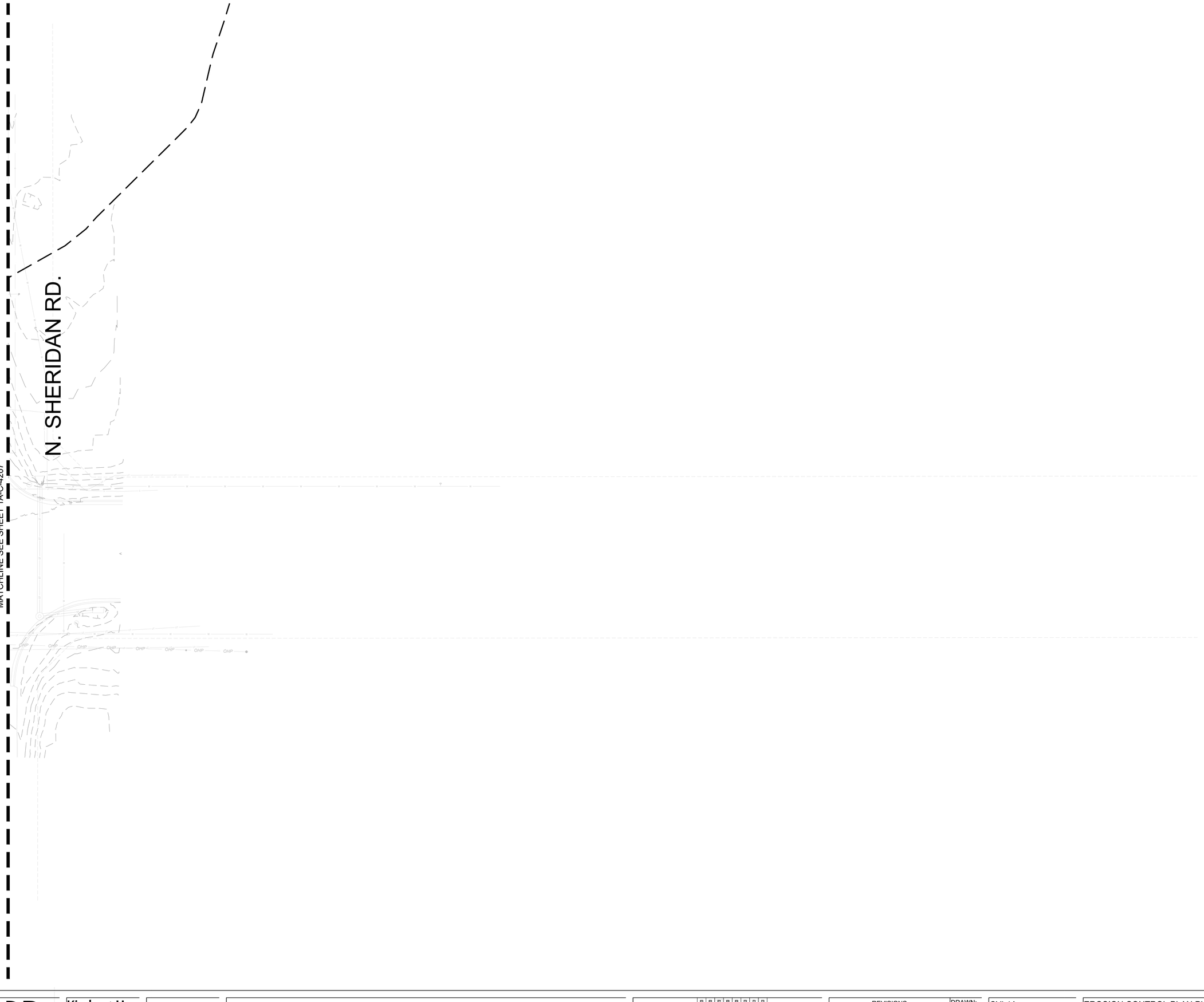
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4207

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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4. AS CONSTRUCTION PROGRESSES AND SITE IS BROUGHT TO FINAL GRADES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATERS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
6. MAINTAIN DEVICES AS NEEDED. INLET PROTECTION SHALL REMAIN UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA IS STABILIZED. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 2" OR GREATER OR EVERY 7 CALENDAR DAYS. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
7. CONSTRUCT ROAD BASE COURSE AND INSTALL CURB AND GUTTER.
8. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
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PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
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EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWG\SIC\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:15 AM

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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

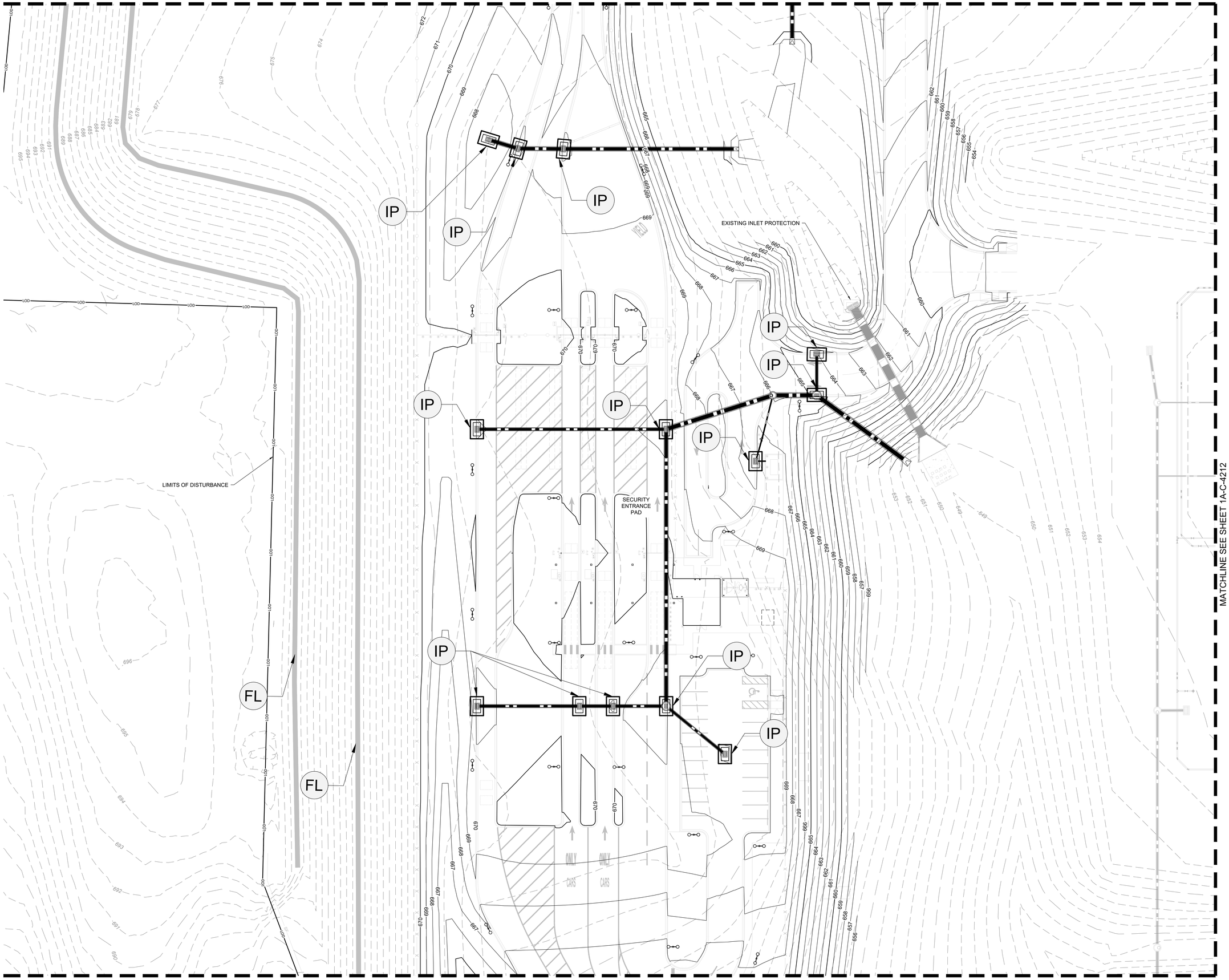
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4208

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION: (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
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EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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LICENSED PROFESSIONAL ENGINEER — DEVIN GRANT RANDALL — OKLAHOMA — 04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4211

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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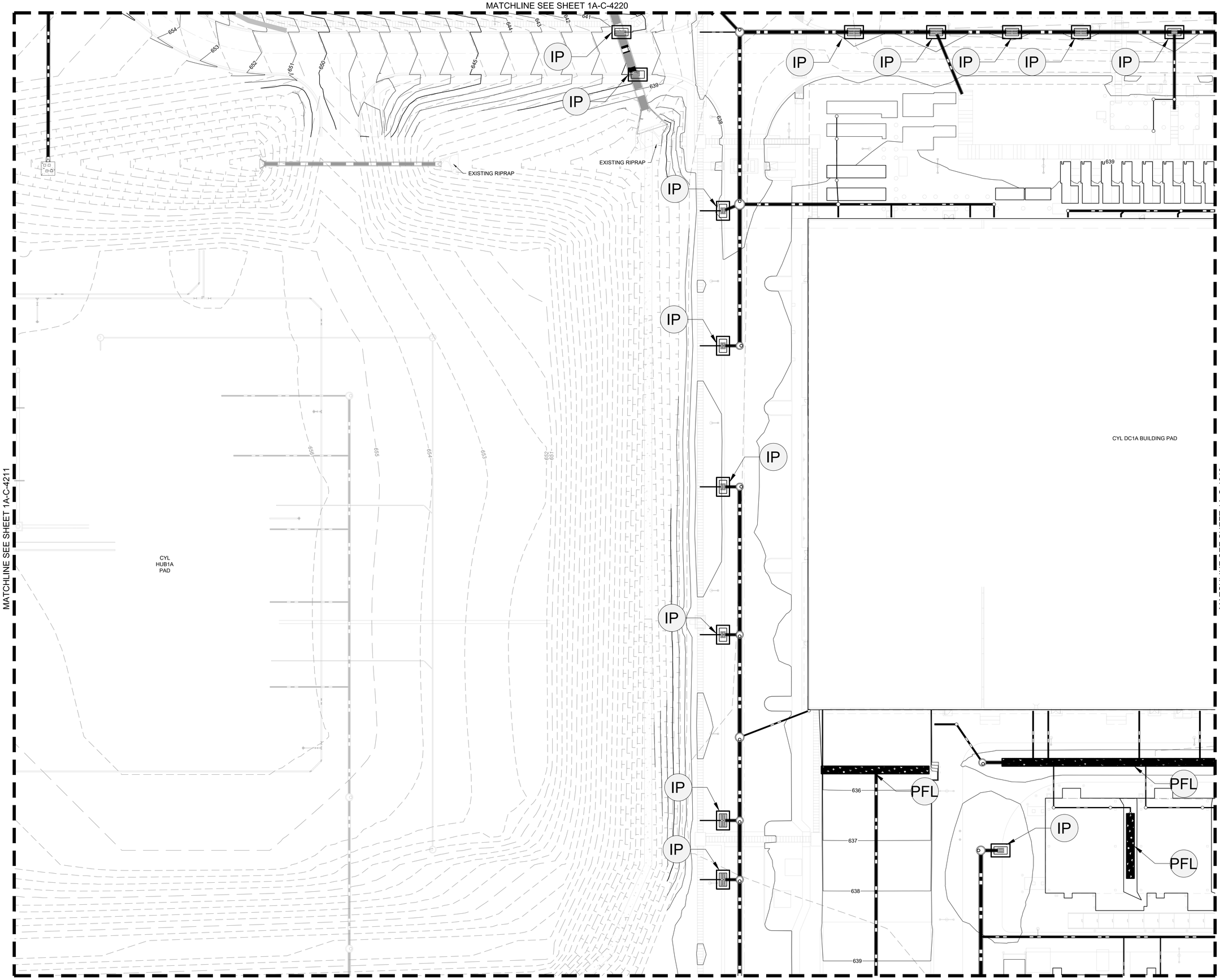

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EROSION CONTROL LEGEND:

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EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
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PROPERTY LINE	
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SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
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DISTURBED AREA:

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N

0' 10' 20' 40'

SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2 2/21/2025 11:13 AM

HDR, INC.
1917 SOUTH 67th STREET
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04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

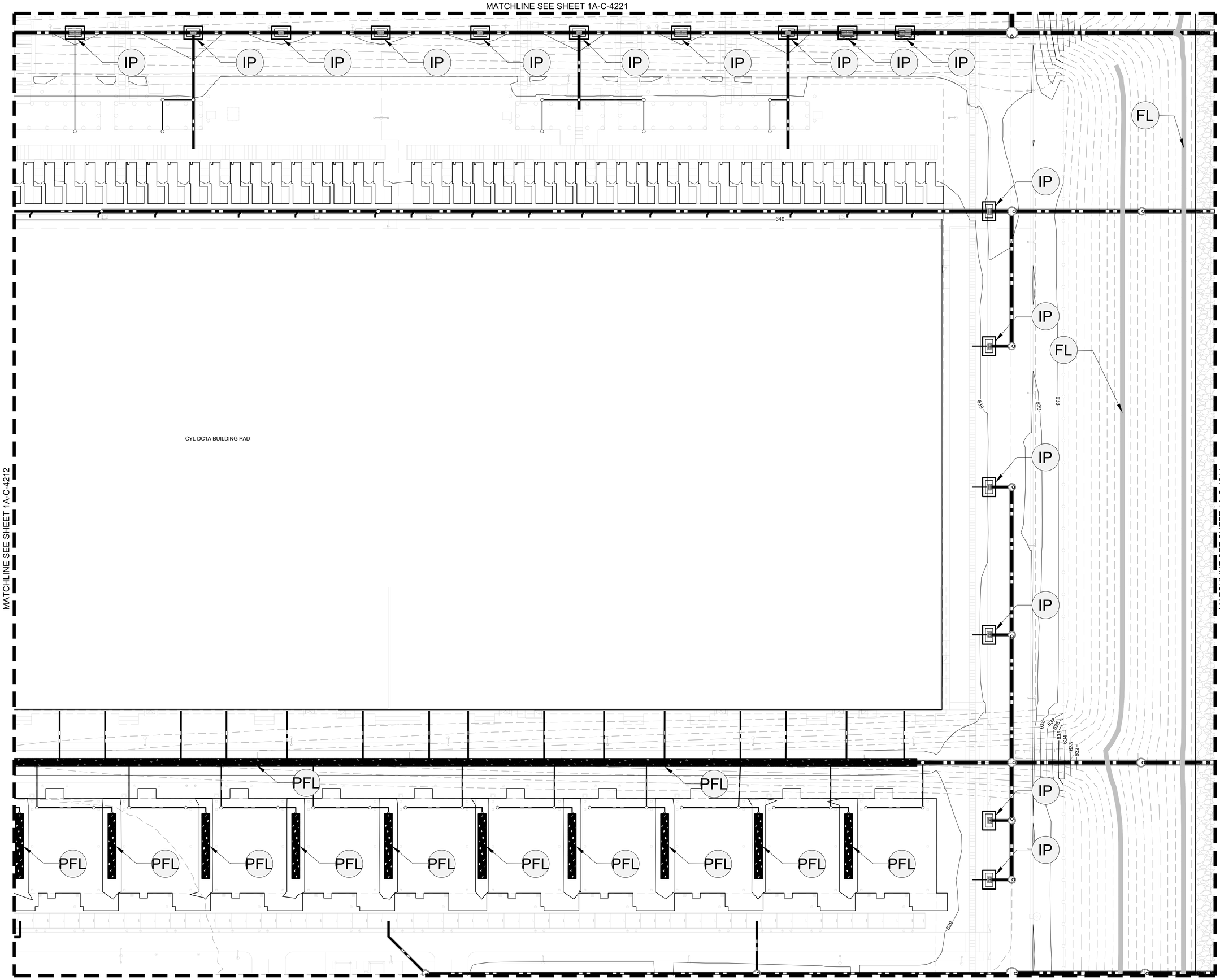
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4212

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:13 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4213

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4222

MATCHLINE SEE SHEET 1A-C-4213

EXISTING TRICKLE CHANNEL

EXISTING TRICKLE CHANNEL

EXISTING TRICKLE CHANNEL

EXISTING TRICKLE CHANNEL

SK

SK

SK

REMOVE RISER AND INSTALL PERMANENT OUTFALL STRUCTURE SEE STORM SEWER SHEETS FOR DETAILS

EXISTING SILT FENCE

LIMITS OF DISTURBANCE

EXISTING SILT FENCE

LOD

CYL DC1A STORMWATER POND
BOTTOM OF POND VARIES

10' POND MAINTENANCE ACCESS ROAD

50' JURISDICTIONAL WATERS BUFFER

JURISDICTIONAL WATERS.
NO IMPACT ZONE.

100-YR FLOODPLAIN
(ZONE AE)

FEMA FLOODWAY

612 613 614 615 616 617 618 619 620 621

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
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EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
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PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
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EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\06000579000_CYL1\Project Files\00_Civil\SPS\03_Production-DWG\SIC\YL-1A-C-4206 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:15 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

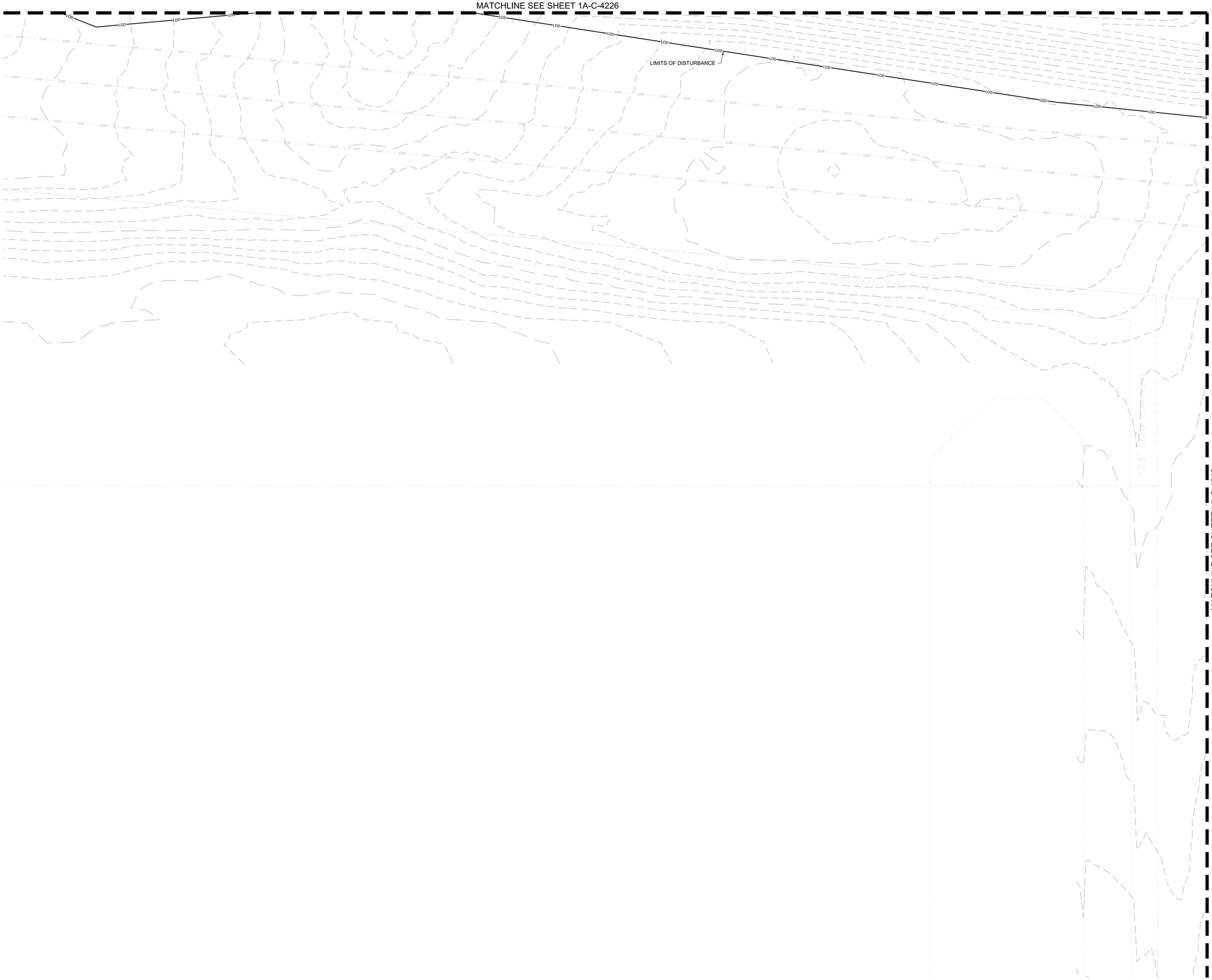
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4214

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:13 AM

MATCHLINE SEE SHEET 1A-C-4226



MATCHLINE SEE SHEET 1A-C-4219

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL GREEN — OKLAHOMA
04/09/2026

TRADE SECRETS

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4218

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4227

MATCHLINE SEE SHEET 1A-C-4218

MATCHLINE SEE SHEET 1A-C-4220

LIMITS OF DISTURBANCE

EXISTING RIPRAP

FL

IP

PFL

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
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0' 10' 20' 40'
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LICENSED PROFESSIONAL ENGINEER
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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

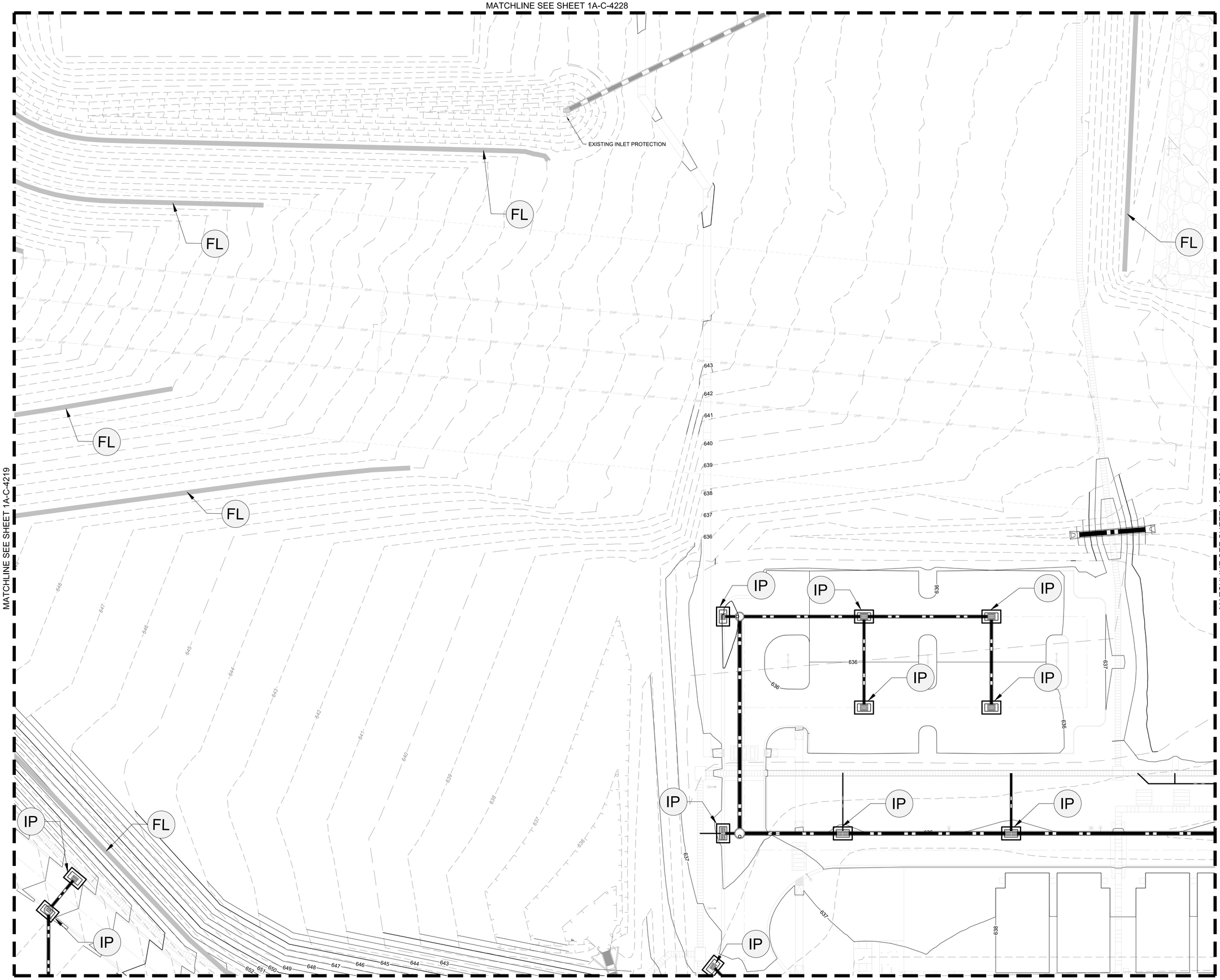
EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4219

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACC\ACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWG\SICYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:13 AM



EROSION CONTROL PH. 2 SEQUENCING:

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LIMITS OF DISTURBANCE	LOD
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PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION: (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2
SCALE: AS SHOWN

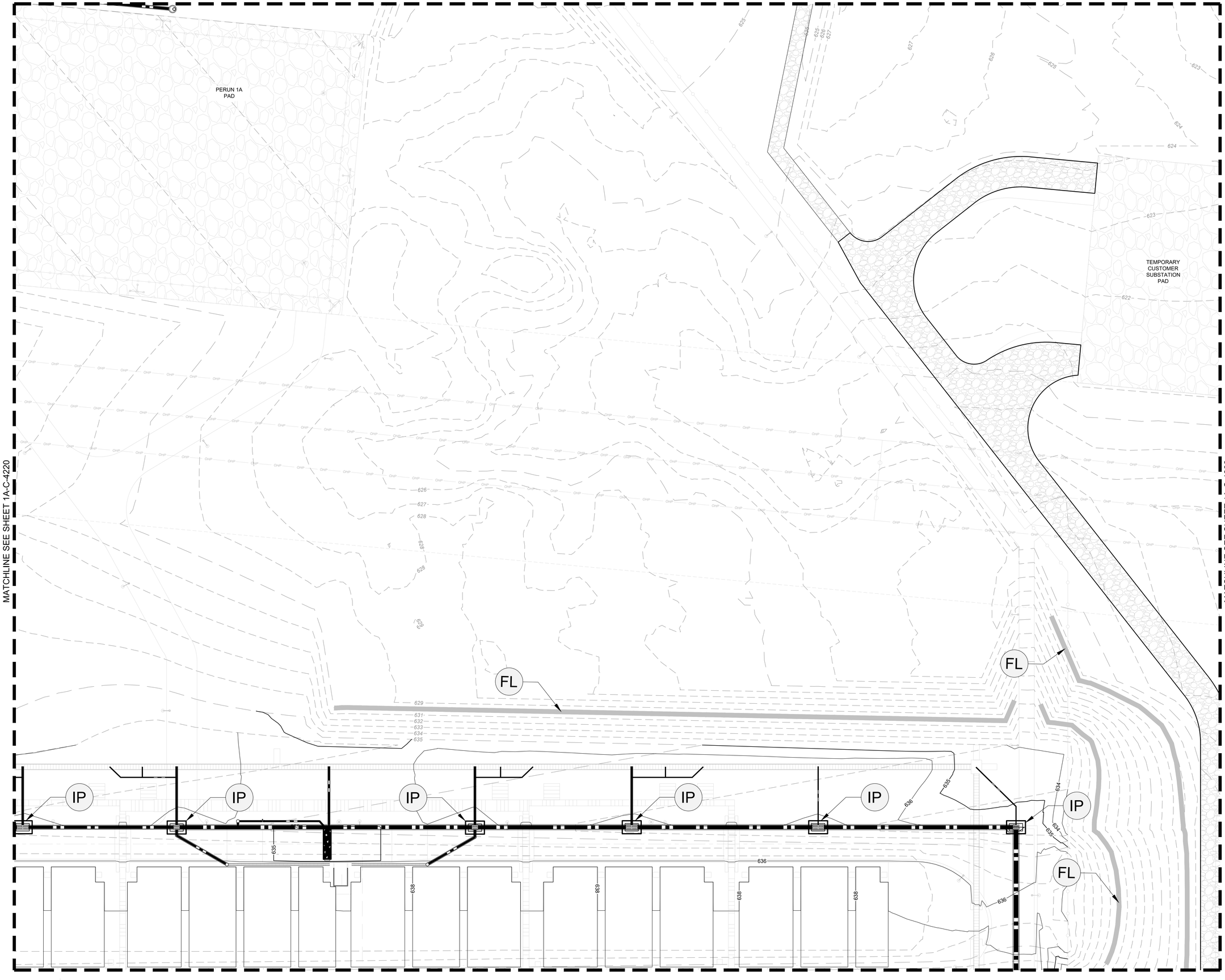
SHEET NUMBER:
1A-C-4220
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:13 AM

MATCHLINE SEE SHEET 1A-C-4229

MATCHLINE SEE SHEET 1A-C-4220

MATCHLINE SEE SHEET 1A-C-4222



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
2. AS EARTHWORK ALLOWS, BEGIN INSTALLING STORMWATER PIPING AND INLETS.
3. INSTALL SITE UTILITIES. CONTRACTOR MAKE SURE TO LEAVE WATER AND SANITARY SEWER LINES EXPOSED AS NECESSARY UNTIL IT HAS BEEN APPROVED BY THE INSPECTOR.
4. AS CONSTRUCTION PROGRESSES AND SITE IS BROUGHT TO FINAL GRADES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATERS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
6. MAINTAIN DEVICES AS NEEDED. INLET PROTECTION SHALL REMAIN UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA IS STABILIZED. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 2" OR GREATER OR EVERY 7 CALENDAR DAYS. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
7. CONSTRUCT ROAD BASE COURSE AND INSTALL CURB AND GUTTER.
8. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS
9. CONTINUE TO MAINTAIN TEMPORARY EROSION CONTROL MEASURES PER ODEQ.
10. INSTALL FINAL SLOPE STABILIZATION AS GRADES ARE FINALIZED.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL1\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4201 EROSION CONTROL PLAN PHASE 2.7/2/2025 11:13 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4221

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4230

MATCHLINE SEE SHEET 1A-C-4221

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:15 AM

EX. POND

50' JURISDICTIONAL WATERS BUFFER

LIMITS OF DISTURBANCE

JURISDICTIONAL WATERS.
NO IMPACT ZONE.

EXISTING SILT FENCE

FEMA FLOODWAY

LIMITS OF DISTURBANCE

100-YR FLOODPLAIN
(ZONE AE)

EXISTING TRICKLE
CHANNEL

SK

SK

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

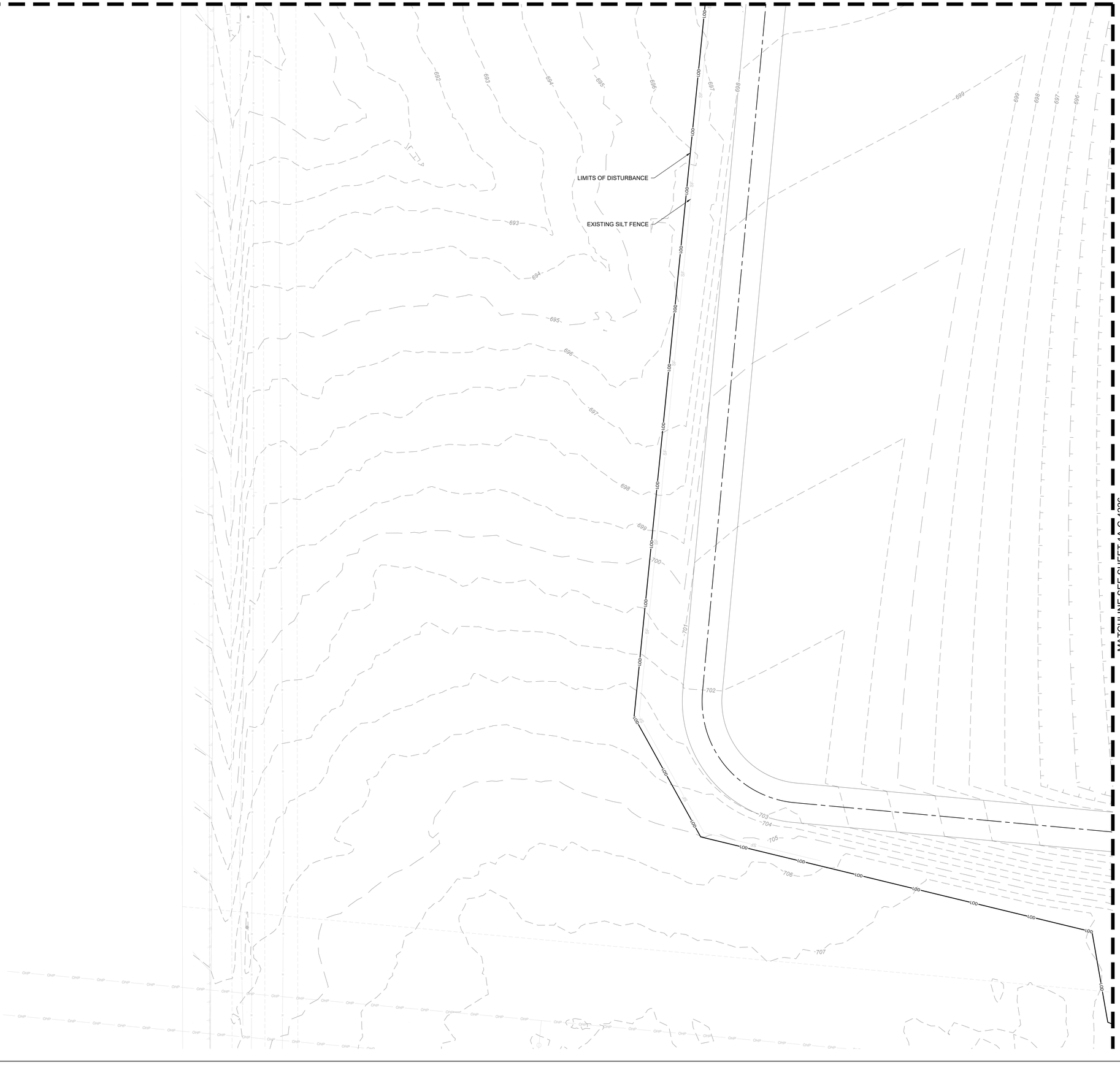
PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4222

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



MATCHLINE SEE SHEET 1A-C-4226

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
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EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4225 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:18 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4225

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4234



MATCHLINE SEE SHEET C-4225

MATCHLINE SEE SHEET 1A-C-4227

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
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PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
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INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4226 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:18 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

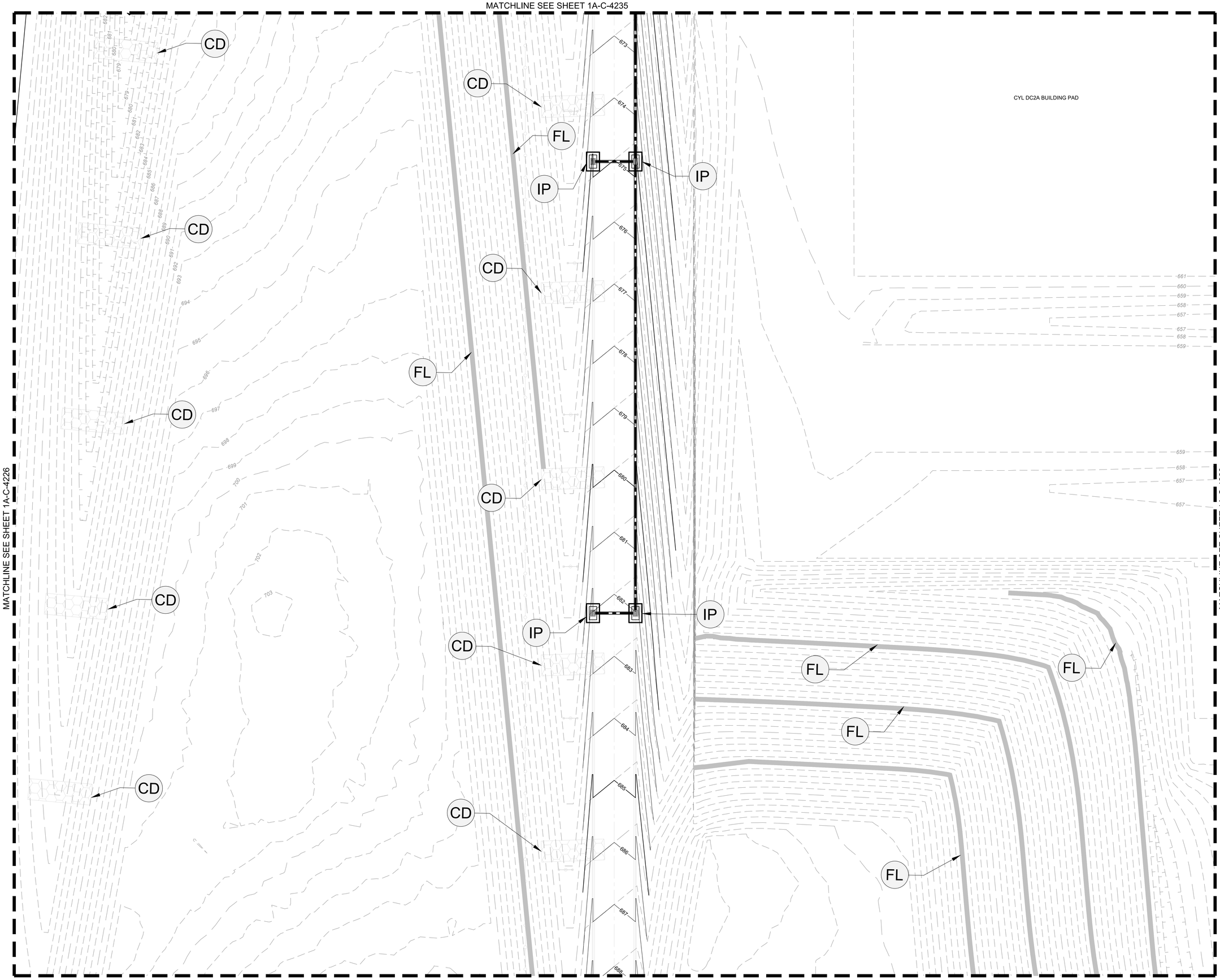
EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4226

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4235



MATCHLINE SEE SHEET 1A-C-4226

MATCHLINE SEE SHEET 1A-C-4228

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EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
2. AS EARTHWORK ALLOWS, BEGIN INSTALLING STORMWATER PIPING AND INLETS.
3. INSTALL SITE UTILITIES. CONTRACTOR MAKE SURE TO LEAVE WATER AND SANITARY SEWER LINES EXPOSED AS NECESSARY UNTIL IT HAS BEEN APPROVED BY THE INSPECTOR.
4. AS CONSTRUCTION PROGRESSES AND SITE IS BROUGHT TO FINAL GRADES, INSTALL PERMANENT EROSION CONTROL MEASURES SUCH AS RIP RAP APRONS, VELOCITY DISSIPATERS, CHANNEL LINERS, GRAVEL BASE COURSE, ETC.
5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
6. MAINTAIN DEVICES AS NEEDED. INLET PROTECTION SHALL REMAIN UNTIL THE ENTIRE CONTRIBUTING DRAINAGE AREA IS STABILIZED. INSPECT AND REPAIR EROSION CONTROL MEASURES AFTER EVERY RAINFALL EVENT OF 2" OR GREATER OR EVERY 7 CALENDAR DAYS. ALL AREAS UPON WHICH NO FURTHER LAND DISTURBING ACTIVITY WILL BE UNDERTAKEN ARE TO BE PLANTED OR PROVIDED WITH PROTECTIVE COVER WITHIN 14 CALENDAR DAYS.
7. CONSTRUCT ROAD BASE COURSE AND INSTALL CURB AND GUTTER.
8. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS
9. CONTINUE TO MAINTAIN TEMPORARY EROSION CONTROL MEASURES PER OSEO.
10. INSTALL FINAL SLOPE STABILIZATION AS GRADES ARE FINALIZED.
11. INSTALL ASPHALT AND CONCRETE DRIVE AISLES AND ROADWAYS. MAKING SURE TO INSTALL AND MAINTAIN STORM INLET PROTECTION.
12. THE CONTRACTOR SHALL CLEAN OUT ALL STORM DRAINAGE PIPING AND FULLY STABILIZE.
13. CONTRACTOR SHALL REMOVE INLET PROTECTION FROM PROPOSED STORMWATER CONVEYANCE STRUCTURES ONCE PERMANENT STABILIZATION IS ACHIEVED.
14. AFTER ALL UPSTREAM DRAINAGE AREAS HAVE BEEN STABILIZED OR DIVERTED INTO ANOTHER SEDIMENT BASIN AND FINAL VEGETATION HAS BEEN ESTABLISHED ON THE SLOPES OF THE POND, REMOVE AND LEGALLY DISPOSE OF ALL SEDIMENT IN THE BASIN, AND ESTABLISH FINAL GROUND COVER AND CONVERT THE BASINS TO PERMANENT DETENTION PONDS (REFER TO DETENTION POND SHEETS).

EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

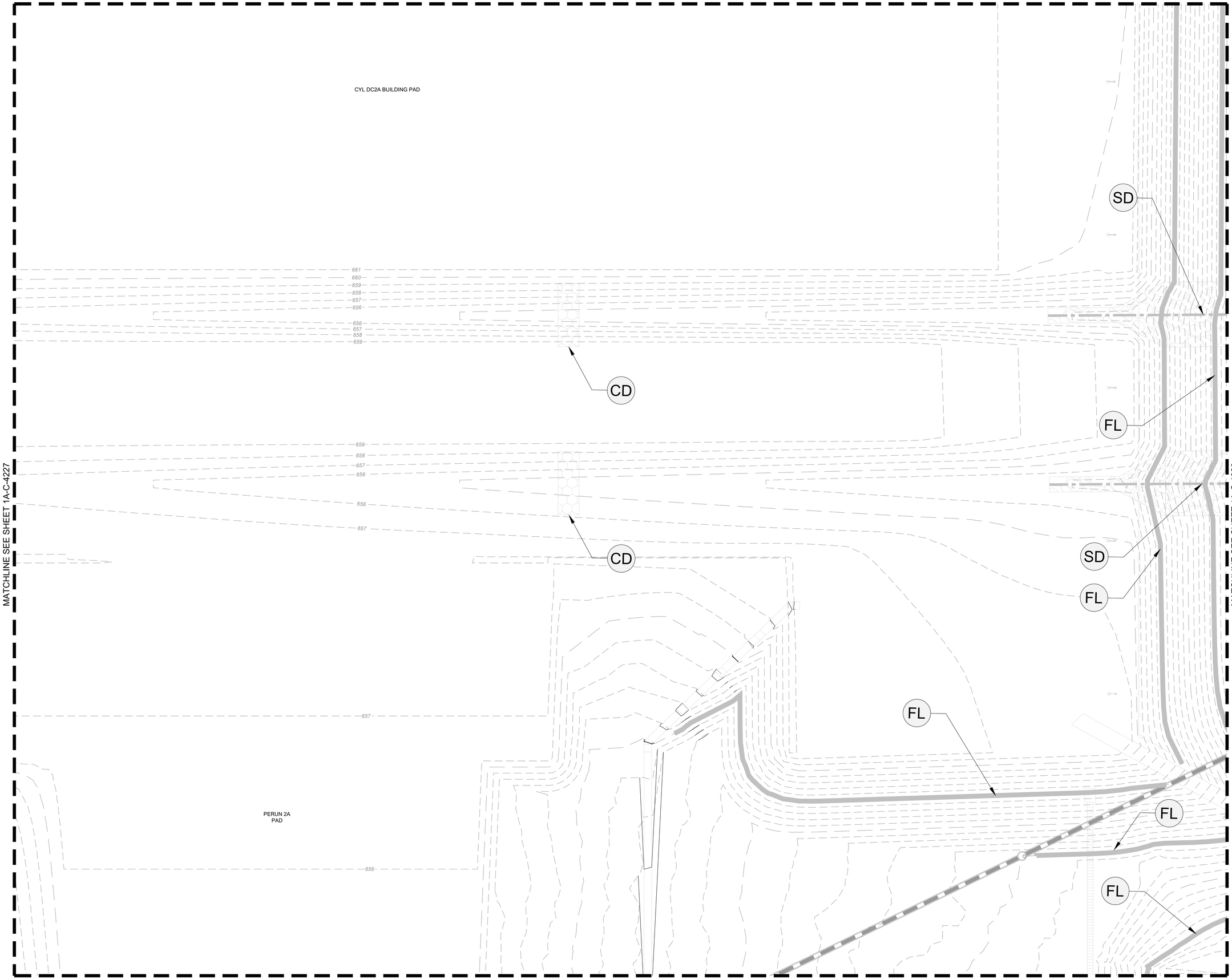
EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4227

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4236



EROSION CONTROL PH. 2 SEQUENCING:

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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
EXISTING ROCK CHECK DAM (SEE DETAIL SHEET 1A-C-4500)	CD
EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
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EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
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EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4225 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:18 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

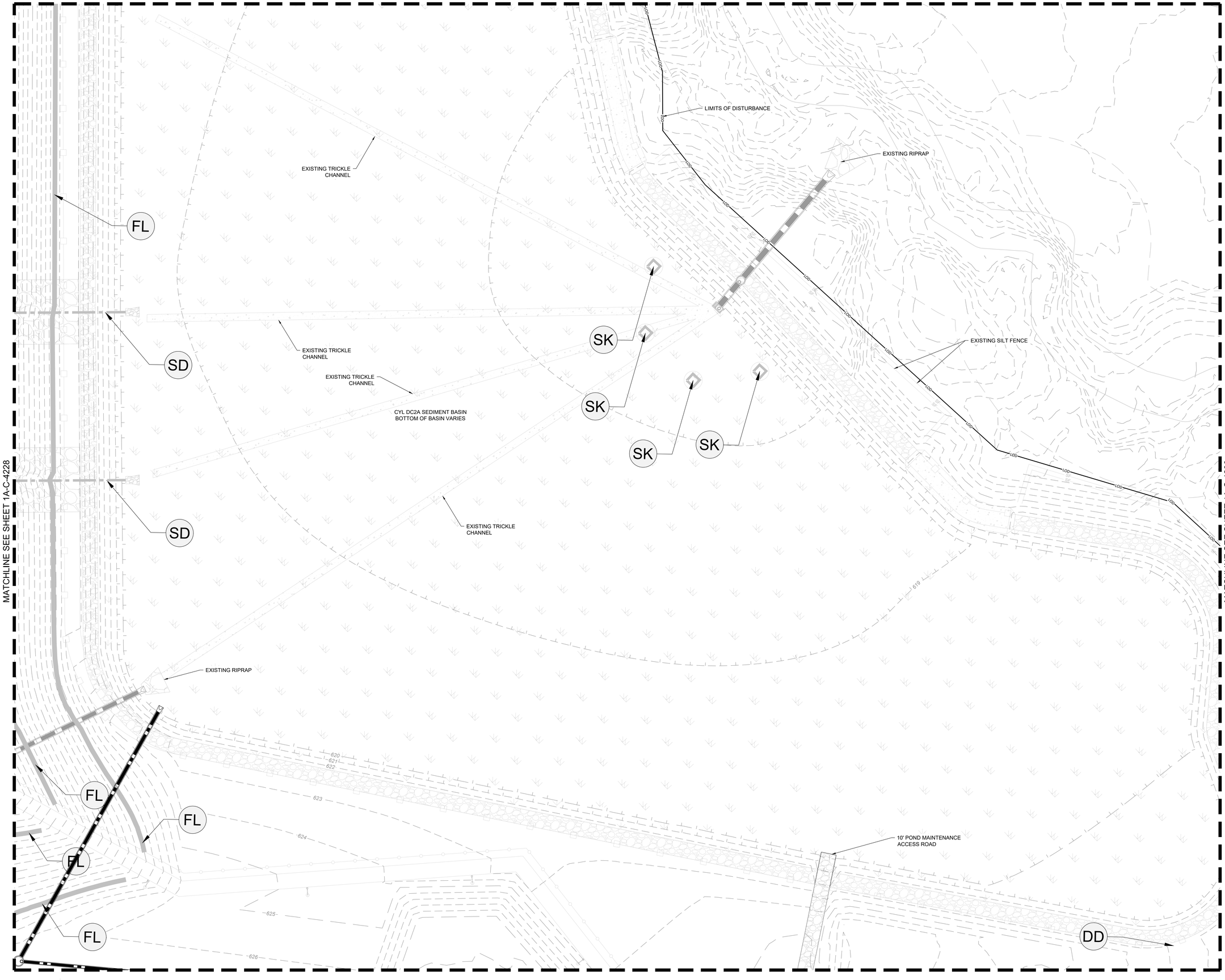
SHEET NUMBER:
1A-C-4228

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4237

MATCHLINE SEE SHEET 1A-C-4228

MATCHLINE SEE SHEET 1A-C-4230



EROSION CONTROL PH. 2 SEQUENCING:

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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
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PROPERTY LINE	
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PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
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DISTURBED AREA:

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N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2.7/2/2025 11:15 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN & ASSOCIATES, INC.
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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER: 1A-C-4229

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EXISTING DIVERSION DITCH (SEE DETAIL SHEET 1A-C-4502)	DD
EXISTING FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	FL
PROPOSED FIBER LOG (SEE DETAIL SHEET 1A-C-4501)	PFL
EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4206 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:15 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4230

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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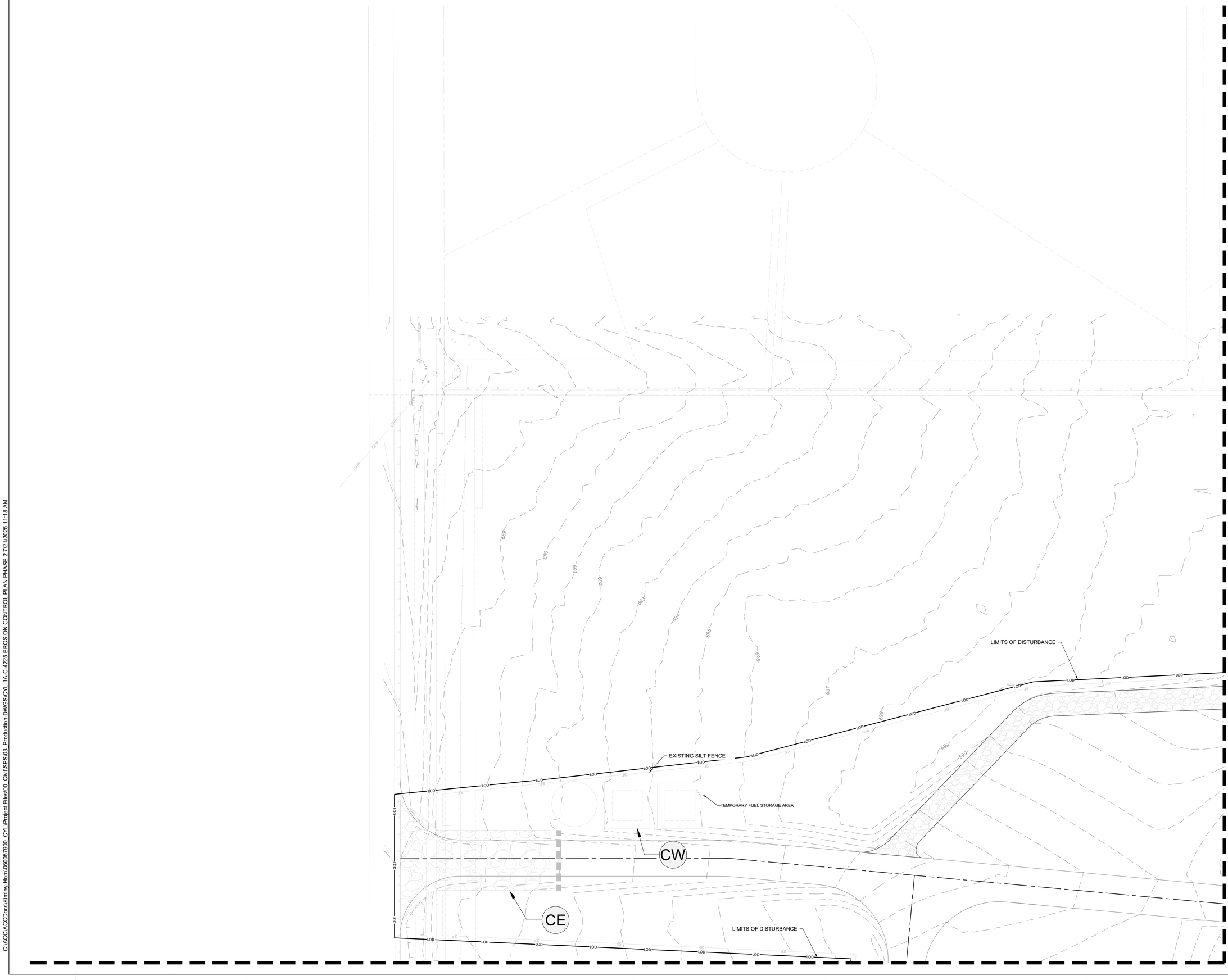

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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5. INSTALL CONCRETE WASH OUT PRIOR TO POURING ANY CONCRETE ON SITE.
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8. AS AREAS ARE BROUGHT TO FINISHED GRADE, CONTRACTOR TO INSTALL FINAL GRASSING AND STABILIZE ALL SLOPES PER THE EROSION CONTROL NOTES AND DETAILS
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
OUTLET PROTECTION (SEE DETAIL SHEET 1A-C-4500)	OP
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EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

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SCALE IN FEET

HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
DEMA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

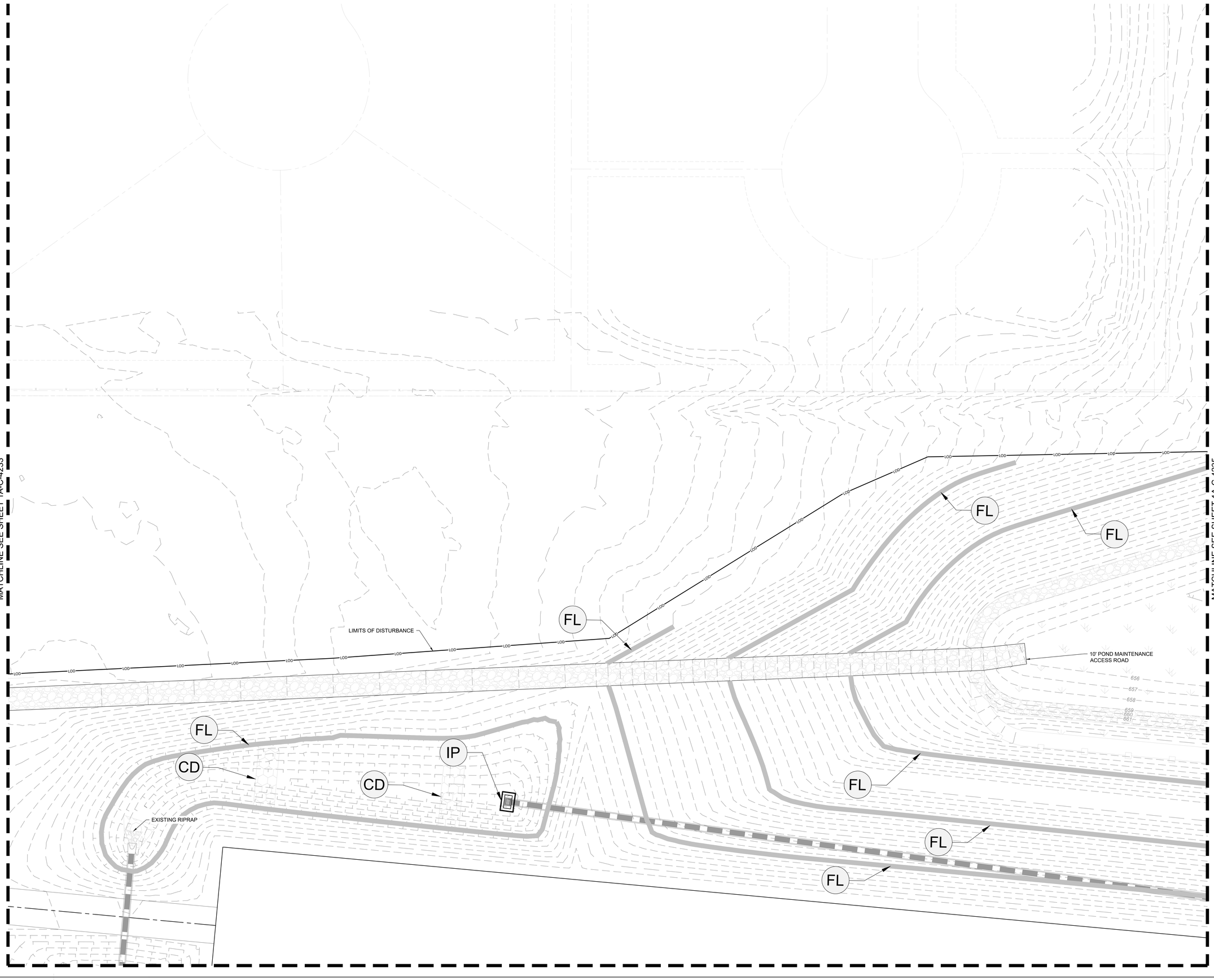
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4233

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

LIMITS OF DISTURBANCE	LOD
EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
INLET PROTECTION (SEE DETAIL SHEET 1A-C-4501)	IP
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DISTURBED AREA:

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCDocs\Kimley-Horn\0600057900_CYL1\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4225 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:18 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEREK RANDALL — OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4234
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-4243

MATCHLINE SEE SHEET 1A-C-4234

MATCHLINE SEE SHEET 1A-C-4236

LIMITS OF DISTURBANCE

EXISTING RIPRAP

EXISTING SILT FENCE

EXISTING TRICKLE CHANNEL

PSO SEDIMENT BASIN
BOTTOM OF BASIN VARIES

EXISTING RIPRAP

CYL DC2A BUILDING PAD

SK

FL

SB

CD

IP

OP

EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

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EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
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PROPERTY LINE	
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SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
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EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4225 EROSION CONTROL PLAN PHASE 2 7/21/2025 11:18 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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REVISIONS		
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

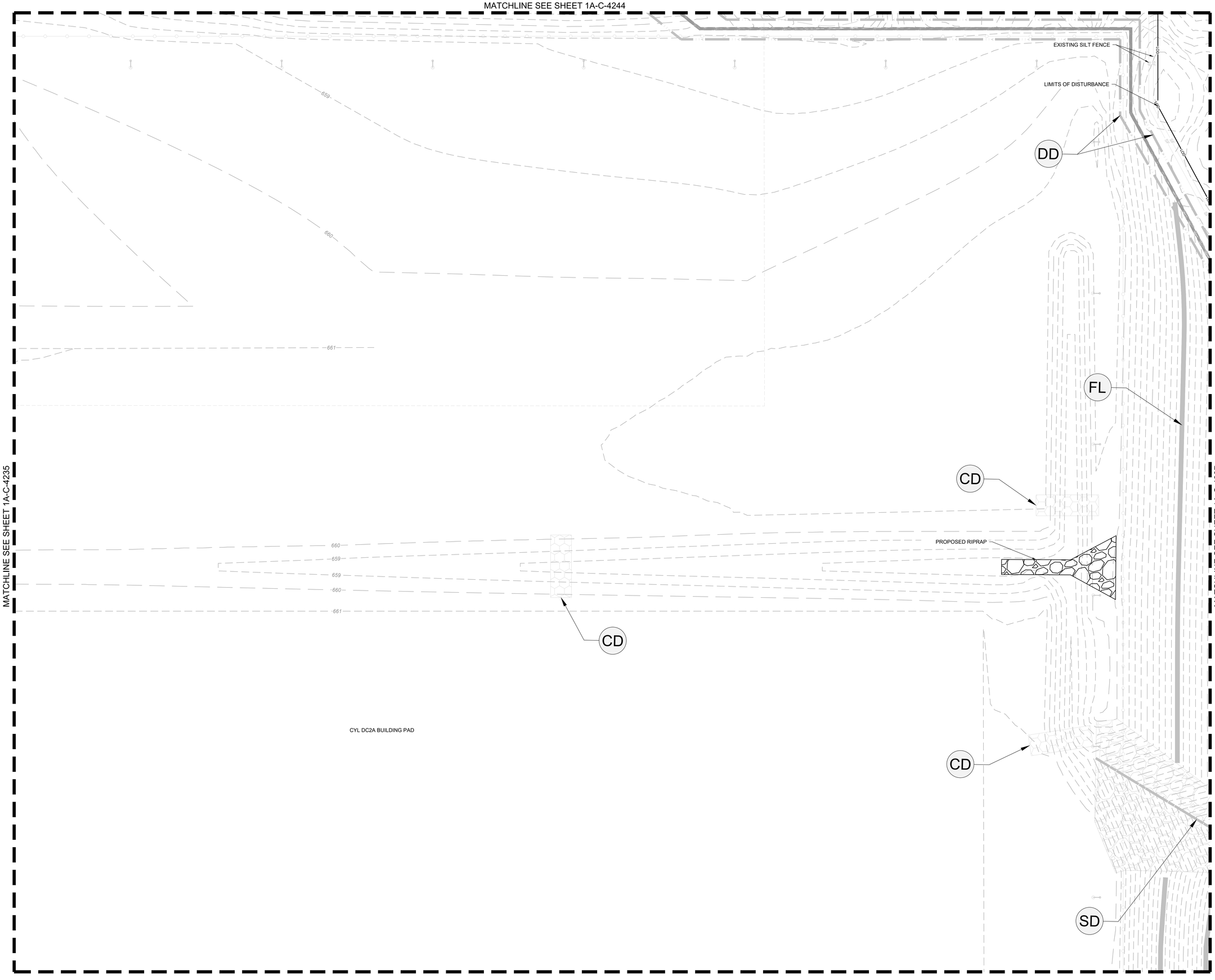
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4235

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



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EXISTING TEMPORARY JUTE NET BAFFLE (SEE DETAIL SHEET 1A-C-4502)	JB
EXISTING SEDIMENT BASIN WITH PIPE OUTLET (SEE DETAIL SHEET 1A-C-4502)	SB
EXISTING TEMPORARY SLOPE DRAIN (SEE DETAIL SHEET 1A-C-4501)	SD
EXISTING FAIRCLOTH SKIMMER (SEE DETAIL SHEET 1A-C-4502)	SK
EXISTING WHEEL WASH (SEE DETAIL SHEET 1A-C-4500)	WW
EXISTING CONSTRUCTION ENTRANCE (SEE DETAIL SHEET 1A-C-4500)	CE
EXISTING CONCRETE WASHOUT AREA (SEE DETAIL SHEET 1A-C-4501)	CW

DISTURBED AREA:

TOTAL = ± 174.0 ACRES

NO FILL MATERIAL SHALL BE SITUATED WITHIN 2' OF SILT FENCE

CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES ARE MAINTAINED AND FUNCTIONING UNTIL FINAL SOIL STABILIZATION IS ACHIEVED.

N

0' 10' 20' 40'

SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4225 EROSION CONTROL PLAN PHASE 2.7/21/2025 11:18 AM

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

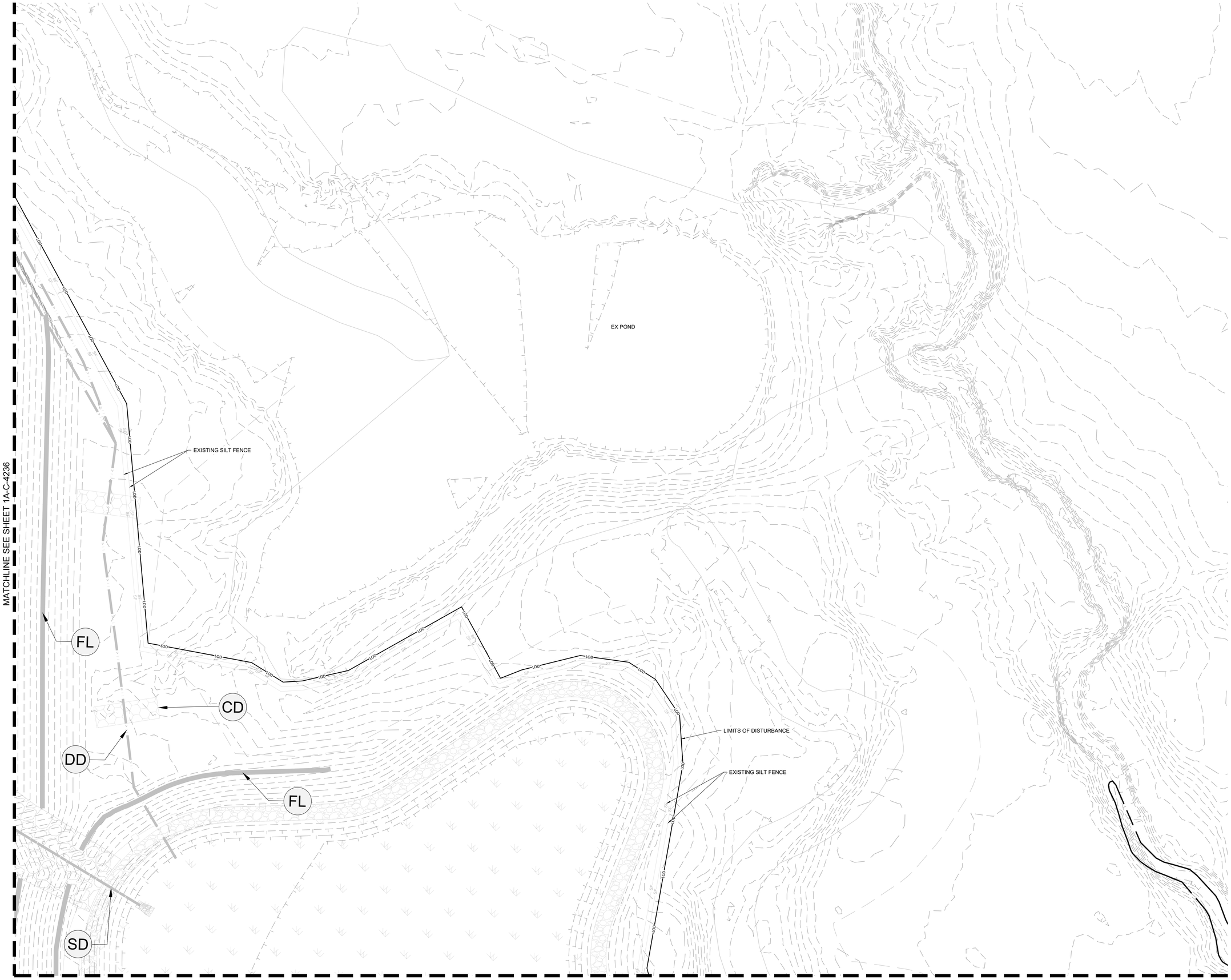
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4236

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



EROSION CONTROL PH. 2 SEQUENCING:

1. CONTINUE EARTHWORK/GRADING ACTIVITIES. MAINTAIN AND VERTICALLY ADJUST ALL CHECK DAMS, DITCHES, AND SILT FENCE THROUGHOUT GRADING ACTIVITIES TO MAINTAIN DRAINAGE PATTERNS. CONTRACTOR TO ENSURE ALL EROSION CONTROL MEASURES DO NOT ADVERSELY AFFECT CONSTRUCTABILITY OF PROJECT.
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EROSION CONTROL LEGEND:

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EXISTING MAJOR CONTOUR (1' INTERVAL)	200
EXISTING MINOR CONTOUR (1' INTERVAL)	201
PROPOSED MAJOR CONTOUR (1' INTERVAL)	200
PROPOSED MINOR CONTOUR (1' INTERVAL)	201
PROPERTY LINE	
EXISTING OVERHEAD ELECTRIC	OE
EXISTING GAS LINE	G
EXISTING EASEMENT	
PROPOSED RIP RAP	
PROPOSED GRAVEL ROAD	GRAVEL
PERMANENT STABILIZATION	
SILT FENCE (SEE DETAIL SHEET 1A-C-4500)	SF
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APPRV'D: DGR

CYL1A

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PROJ. NO.:10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4237

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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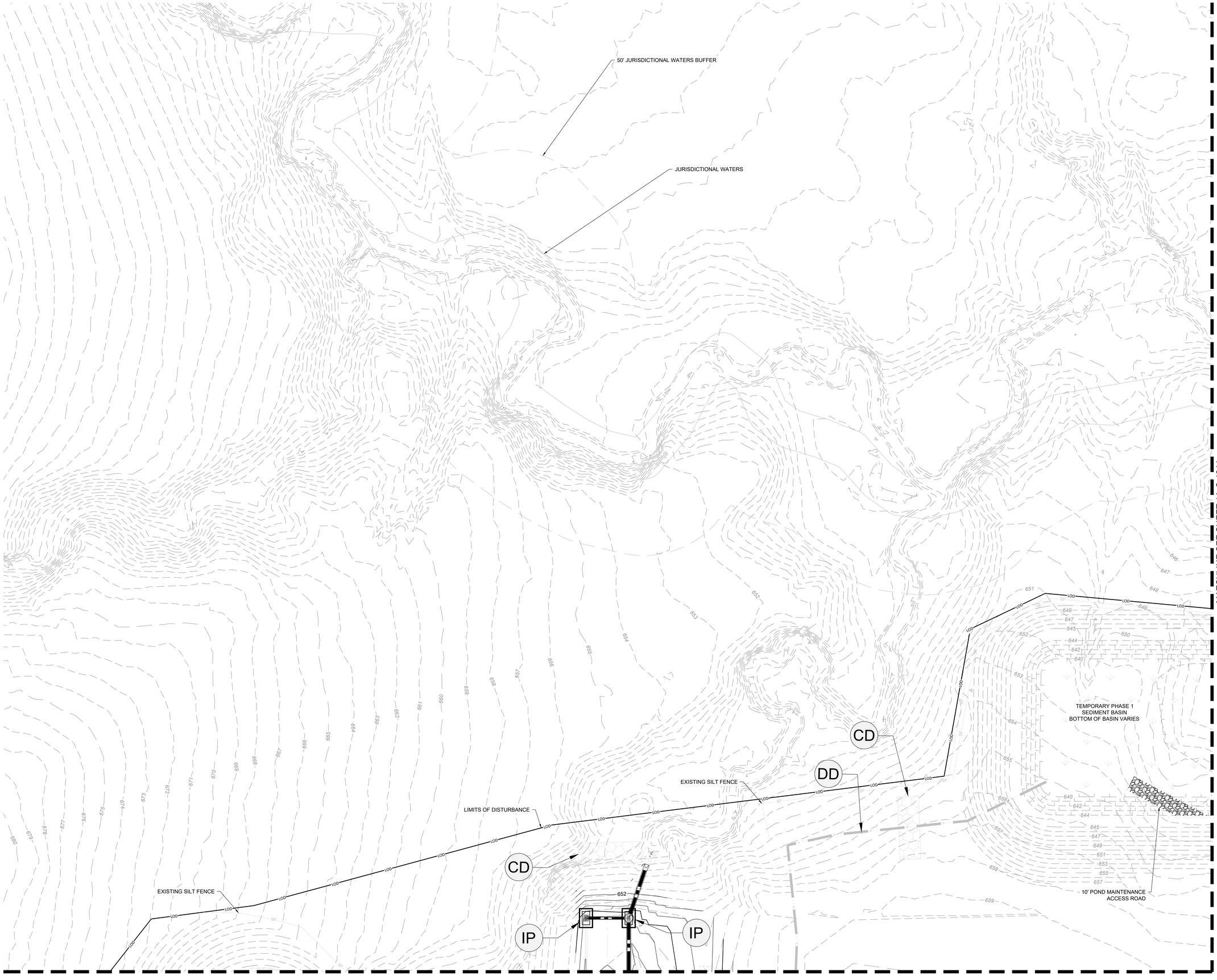

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SCALE IN FEET

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1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

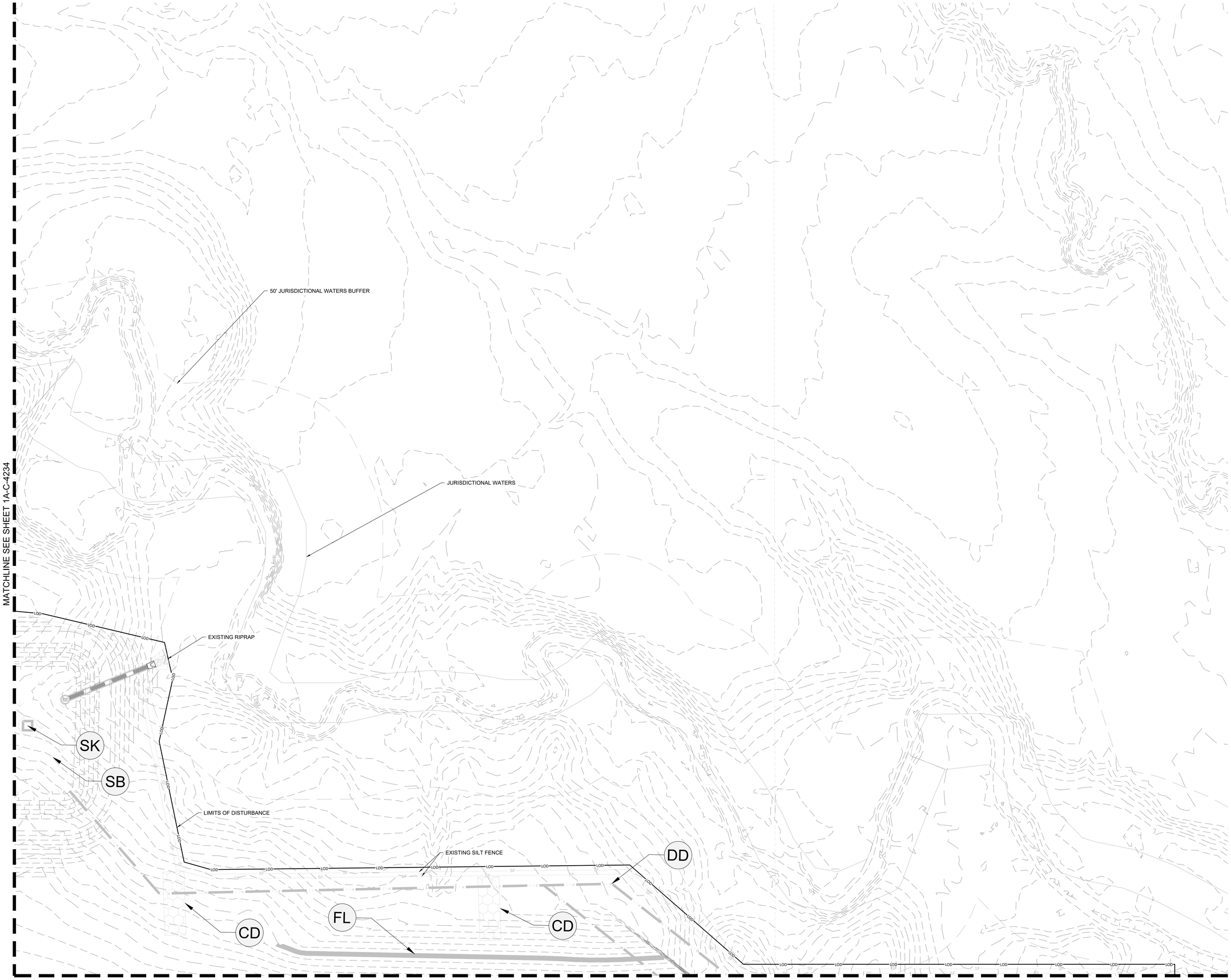
PROJ. NO.: 10434535

EROSION CONTROL PLAN PHASE 2

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4243

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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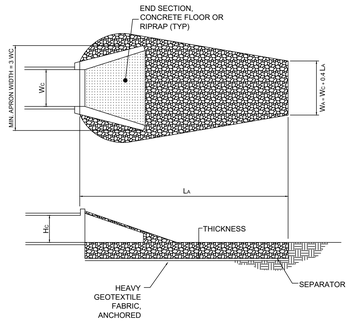
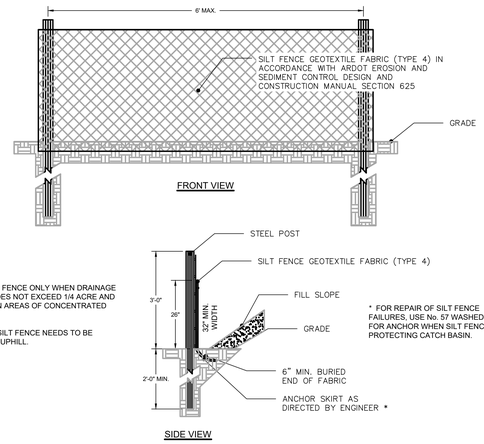


*REFER TO PLAN SHEETS FOR DIMENSIONS

HC = HEIGHT OF CULVERT
WC = WIDTH OF CULVERT
LA = LENGTH OF RIP-RAP APRON
WA = WIDTH OF RIP-RAP APRON AT END SEPARATOR = GEOTEXTILE UNDERLAYMENT OR GRAVEL FILTER BLANKET

OP C4500 **OUTLET PROTECTION DETAIL** NTS



NOTES

1. USE SILT FENCE ONLY WHEN DRAINAGE AREA DOES NOT EXCEED 1/4 ACRE AND NEVER IN AREAS OF CONCENTRATED FLOW.
2. END OF SILT FENCE NEEDS TO BE TURNED UPHILL.

* FOR REPAIR OF SILT FENCE FAILURES, USE No. 57 WASHED STONE. FOR ANCHOR WHEN SILT FENCE IS PROTECTING CATCH BASIN.

SF C4500 **SILT FENCE DETAIL** NTS

PRODUCT PLACEMENT NOTES

THE EROSION CONTROL PRODUCT SHOULD BE PLACED IMMEDIATELY AFTER COMPLETION OF THE PREPARATION OF THE AREA WHERE THE PRODUCT WILL BE PLACED.

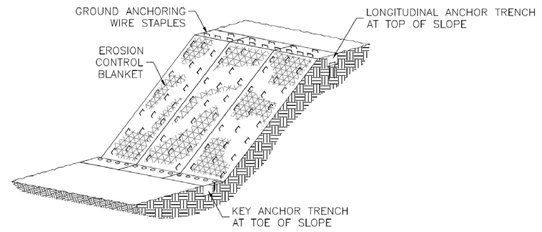
FOLLOW THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OR USE THE FOLLOWING INSTRUCTIONS. IF THERE IS A CONFLICT, FOLLOW THE MANUFACTURER'S RECOMMENDATIONS. STRIPS SHALL BE ROLLED OUT FLAT, PARALLEL TO THE DIRECTION OF FLOW, IN FLUMES AND DITCHES. ON STEEP CUT OR FILL SLOPES, STRIPS SHALL BE ROLLED OUT FLAT, AND PERPENDICULAR TO THE DIRECTION OF FLOW TO REDUCE RILL EROSION. WHEN 2 OR MORE STRIPS ARE REQUIRED TO COVER AN AREA, THEY SHALL OVERLAP AT LEAST 3" (75 MM); HOWEVER, EXCELSIOR BLANKETS WILL NOT REQUIRE LAPPING BUT ARE TO BE BUTTED TOGETHER AND STAPLED WITH HALF OF EACH STAPLE LOCATED IN EACH OF THE ADJOINING BLANKETS. ENDS OF STRIPS SHALL OVERLAP AT LEAST 6" (150 MM) WITH THE UPGRADE SECTION ON TOP. THE UPSLOPE END (ANCHOR SLOT) OF EACH STRIP SHALL BE BURIED IN 6" (150 MM) VERTICAL SLOTS, AND SOIL TAMPED FIRMLY AGAINST IT. FIGURE ECB-1 SHOWS TYPICAL EROSION CONTROL BLANKET INSTALLATION. WHEN CONDITIONS ARE WARRANTED BY THE OPINION OF THE QUALIFIED DESIGN PROFESSIONAL, ANY OTHER EDGE EXPOSED TO EXCESSIVE FLOW SHALL BE BURIED AS NOTED ABOVE. THE EROSION CONTROL PRODUCT SHALL BE SPREAD EVENLY AND SMOOTHLY, AND SHALL BE IN CONTACT WITH THE SOIL AT ALL POINTS. THE PRODUCT SHOULD NOT BE STRETCHED TIGHT IN SUCH A MANNER THAT THE MATERIAL "TENTS" OVER THE SOIL SURFACE. IF THE MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF THE EROSION CONTROL PRODUCT ARE DIFFERENT THAT THOSE GIVEN HERE, THE CONTRACTOR WILL BE REQUIRED TO FOLLOW THE MORE STRINGENT OF THE TWO.

CHECK SLOTS SHALL BE 24" (600 MM) MINIMUM WIDTH AND SEPARATE STRIPS OF EROSION CONTROL PRODUCT PLACED AT RIGHT ANGLES TO THE DIRECTION OF WATER FLOW IMMEDIATELY PRIOR TO PLACING THE GENERAL COVERING OF THE PRODUCT. CHECK SLOTS SHALL BE MADE BY BURYING A TIGHT FOLD OF THE PRODUCT VERTICALLY IN THE SOIL A MINIMUM OF 6" (150 MM) DEEP, AND TAMPING AND STAPLING THE FOLD IN PLACE. CHECK SLOTS SHALL BE PLACED SO THAT ONE CHECK SLOT, JUNCTION SLOT, OR ANCHOR SLOT OF THE EROSION CONTROL PRODUCT OCCURS EVERY 50 FEET (15 M) OF SLOPE. IF THE MANUFACTURER'S RECOMMENDATIONS FOR THE INSTALLATION OF CHECK SLOTS ARE DIFFERENT THAN THOSE GIVEN HERE, THE CONTRACTOR WILL BE REQUIRED TO FOLLOW THE MORE STRINGENT OF THE TWO.

EACH STRIP SHALL BE STAPLED IN 3 ROWS, AT EACH EDGE AND THE CENTER, WITH STAPLES SPACED NOT MORE THAN 3 FEET (900 MM) LONGITUDINALLY. CHECK SLOTS AND ENDS OF STRIPS SHALL BE STAPLED AT 9" (225 MM) INTERVALS ACROSS THEIR WIDTH.

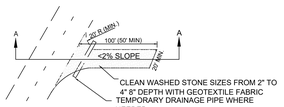
FOR TEMPORARY BLANKETS, STAPLES SHOULD BE U-SHAPED WIRE WITH AN 11-GAUGE THICKNESS OR GREATER. STAPLES SHOULD BE OF SUFFICIENT THICKNESS FOR SOIL PENETRATION WITHOUT UNDUE DISTORTION. THE LEGS OF THE STAPLES SHALL BE AT LEAST 6" LONG WITH A CROWN OF 1". APPROPRIATE BIODEGRADABLE STAPLES CAN BE USED IN LIEU OF WIRE STAPLES.

PERMANENT BLANKETS SHALL BE ANCHORED IN ONE OF TWO WAYS. BLANKETS CAN BE ANCHORED USING SOUND WOOD STAKES, 1" BY 3" STOCK SAWN IN A TRIANGULAR SHAPE. THE LENGTH OF THE STAKES SHALL BE FROM 12" TO 18" DEPENDING UPON THE SOIL COMPACTION AT THE SITE. STAKES SHALL BE INSTALLED ON 4 FEET CENTERS ALONG EACH EDGE OF THE BLANKET. BLANKETS CAN ALSO BE ANCHORED USING U SHAPED STAPLES OF 11 GAUGE STEEL OR GREATER WITH A MINIMUM LEG LENGTH OF 8" AND A 2" CROWN.

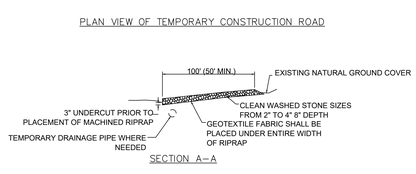


EROSION CONTROL BLANK ISOMETRIC VIEW

EB C4500 **EROSION CONTROL BLANKET DETAIL** NTS

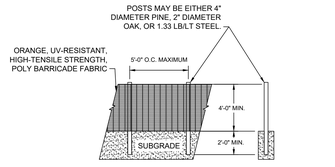


PLAN VIEW OF TEMPORARY CONSTRUCTION ROAD



SECTION A—A

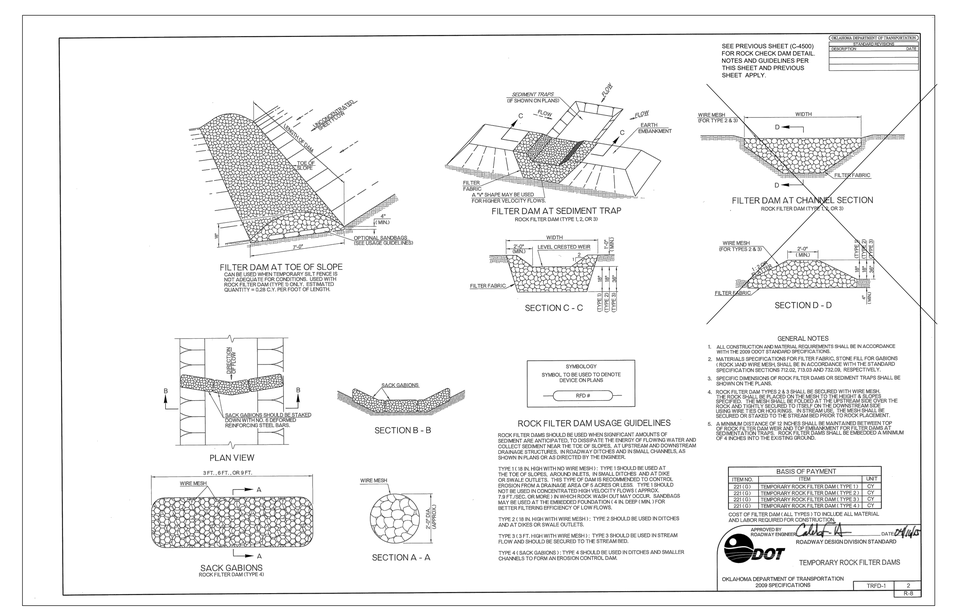
CE C4500 **CONSTRUCTION ENTRANCE DETAIL** NTS



MAINTENANCE SPECIFICATIONS

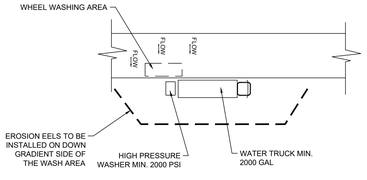
SHOULD THE FABRIC OF A PROTECTION FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

OF C4500 **ORANGE SAFETY FENCE DETAIL** NTS

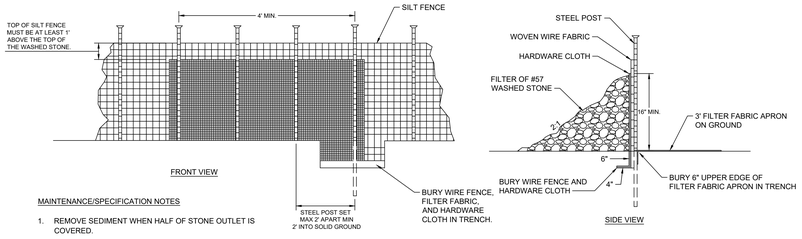


CD C4500 **ROCK CHECK DAM DETAIL** NTS

NOTES:
1. A FULL TIME INSPECTOR/WHEEL WASHER IS REQUIRED TO BE STATIONED AT THE CONSTRUCTION EXIT WHENEVER TRAFFIC IS ENTERING OR LEAVING THE SITE.
2. NO WHEEL WASH RUNOFF SHALL BE ALLOWED TO FLOW FROM THE SITE, OR TO THE STORM SEWER INLETS OR FLUMES.
3. WATER TRUCK AND PRESSURE WASHER SHALL REMAIN ON PAVED AREAS.



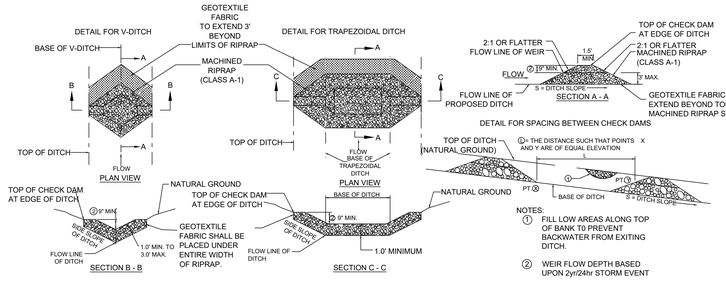
WW C4500 **WHEEL WASH DETAIL** NTS



MAINTENANCE/SPECIFICATION NOTES

1. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
2. REPLACE STONE AS NEEDED TO ENSURE DEWATERING.
3. SILT FENCE OUTLETS SHOULD NOT BE LOCATED WHERE THE OUTFLOW WILL ERODE THE SOIL BELOW.

FO C4500 **SILT FENCE OUTLET DETAIL** NTS



CD C4500 **ROCK CHECK DAM DETAIL** NTS

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4500 EROSION CONTROL DETAILS 7/24/2025 5:30 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

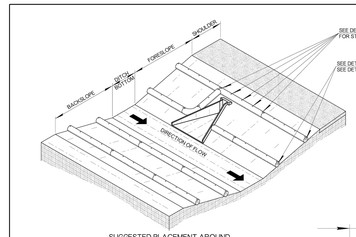
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

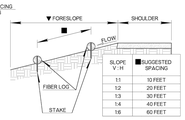
CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

EROSION CONTROL DETAILS
SCALE: AS SHOWN

SHEET NUMBER: 1A-C-4500
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



SUGGESTED PLACEMENT AROUND CROSSDRAINS AND ON SLOPES.

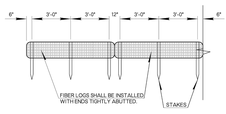


SLOPE V : H	■SUGGESTED SPACING
1:1	10 FEET
1:2	20 FEET
1:3	30 FEET
1:4	40 FEET
1:6	60 FEET

DETAIL A - CROSS SECTION VIEW

ALTHOUGH FIBER LOGS CAN BE APPLIED ON SLOPES OF 1:1, THEY BEGIN TO LOSE THEIR EFFECTIVENESS AT SLOPES OF 1:2.

▼ NOTE: SPACING APPLIES FOR BACKSLOPES, AS WELL AS FORESLOPES.



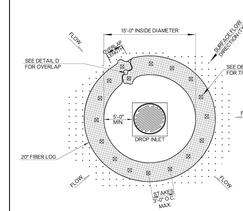
DETAIL B - FIBER LOG FRONT VIEW

GENERAL NOTES

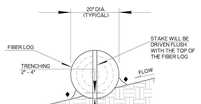
1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. FIBER LOGS ARE TO BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
3. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
4. TRENCHING OF LOGS SHALL BE 2 TO 4 INCHES INTO SOIL. BEFORE TRENCHING, REMOVE ALL ROCKS, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED LOGS WILL HAVE DIRECT CONTACT WITH SOIL. THERE SHALL NOT BE ANY GAPS BETWEEN THE LOGS AND THE SOIL.
5. STAKES DRIVEN INTO LOGS SHOULD BE MADE OF WOOD. METAL STAKES MAY BE USED IN PLACE OF WOOD STAKES IN AREAS WHERE WOOD STAKES ARE UNABLE TO BE DRIVEN, OR IF APPROVED BY THE ENGINEER AT NO ADDITIONAL COST TO THE DEPARTMENT. WOOD STAKES SHALL BE 3/4 INCHES BY 3/4 INCHES, MINIMUM. LENGTH OF STAKES SHALL BE TWICE THE DIAMETER OF THE LOG.
6. THE FILLING INSIDE THE LOGS MAY BE MADE OF STRAW, EXCELSIOR, COIR OR OTHER SIMILAR MATERIAL AS APPROVED BY THE ENGINEER. FIBER NET SURROUNDING THE LOG MAY BE SYNTHETIC MATERIAL OR A NATURAL FIBER.
7. OVERLAP ENDS OF FIBER LOG SO THAT ONE END IS IMMEDIATELY UPSTREAM OF THE OTHER AND TOUCHING EACH OTHER. OVERLAP DISTANCE SHALL BE 18 TO 24 INCHES OR PER MANUFACTURER'S RECOMMENDATION.
8. MAINTENANCE SHALL INCLUDE THE REMOVAL OF SEDIMENT WHEN HALF OF THE HEIGHT OF THE FIBER LOG HAS BEEN FILLED OR AS DIRECTED BY THE ENGINEER.
9. COST OF TEMPORARY FIBER LOG SHALL INCLUDE ALL MATERIALS AND LABOR NECESSARY FOR THE INSTALLATION AND MAINTENANCE.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
221G1	TEMPORARY FIBER LOG	LF

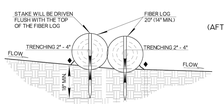


FIBER LOG INLET PROTECTION
PLAN VIEW



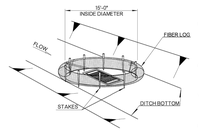
DETAIL C - TRENCHING

♦ AREA TO BE FILLED WITH COMPACTED SOIL TAKEN FROM THE EXCAVATED TRENCH.



DETAIL D - OVERLAP

♦ AREAS TO BE FILLED WITH COMPACTED SOIL TAKEN FROM THE EXCAVATED TRENCH.



FIBER LOG INLET PROTECTION
(AFTER INLET IS CONSTRUCTED AND BACKFILLED)

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

FIBER LOG INLET PROTECTION — IP1

TEMPORARY FIBER LOG TO BE USED ON SLOPES

APPROVED BY ROADWAY ENGINEER: RGWE DATE: 6/24/25

ROADWAY DESIGN DIVISION STANDARD

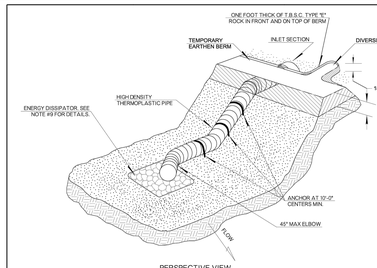
TEMPORARY FIBER LOG APPLICATIONS

OKLAHOMA Transportation

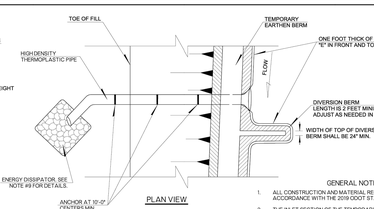
2019 SPECIFICATIONS

TFL	0
R-8	

FL C4501 FIBER LOG DETAIL NTS



PERSPECTIVE VIEW



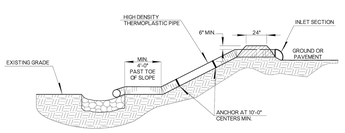
PLAN VIEW

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. THE INLET SECTION OF THE TEMPORARY SLOPE DRAINS SHALL BE PLACED IN SUMP LOCATIONS OR AS DIRECTED BY THE ENGINEER, WITH A MAXIMUM SPACING OF 500 FEET BETWEEN SLOPE DRAINS.
3. NOT INTENDED FOR USE ON CUT AND FILL SLOPES STEEPER THAN 12 (V):1.
4. DIAMETER OF PIPES SHALL BE A MINIMUM OF 12 INCHES AND MAXIMUM OF 18 INCHES. PIPES SHOULD BE UNIFORM THROUGHOUT THE SLOPE.
5. ENTRANCE SECTION MUST BE SECURELY ENTRENCHED AND ALL CONNECTIONS WATERTIGHT.
6. THE CONDUIT SHOULD BE SECURELY STAKED TO THE SLOPE.
7. INLET PIPE SHOULD HAVE A MINIMUM SLOPE OF 2%.
8. SLOPE DRAIN SHOULD EXTEND A MINIMUM OF 4 FEET PAST THE TOE OF SLOPE AND OUTLET SHOULD HAVE LESS THAN 1% SLOPE.
9. ENERGY DISSIPATOR SHALL BE 5 FT. X 5 FT. X 1 FT. OR AS DIRECTED BY THE ENGINEER. STONE FOR ENERGY DISSIPATOR SHALL BE RIPRAP STONE OR MATERIAL MADE OF CRUSHED NON-ERODIVE ROCK THAT IS FREE OF ALL FINES, CLAYS AND SILTS AND OF SUFFICIENT SIZE TO PREVENT DOWNSTREAM MOVEMENT.
10. THE SOIL AROUND AND UNDER THE INLET PIPE AND ENTRANCE SECTION SHALL BE HAND TAMPED IN 4 INCH LIFTS TO THE TOP OF THE TEMPORARY EARTHEN BERM.
11. DIVERSION BERMS, INSTALLED PERPENDICULAR TO THE LONGITUDINAL DIRECTION OF THE HIGHWAY, MAY BE MADE OF SOIL, SAND BAGS, OR SILT SOCK. SIDE SLOPES OF THE DIVERSION BERM SHALL BE 2H:1V OR FLATTER.
12. PRICE BID FOR TEMPORARY SLOPE DRAIN SHALL INCLUDE COST OF ALL MATERIALS AND LABOR NECESSARY FOR CONSTRUCTION, MAINTENANCE AND REMOVAL.
13. IF DIVERSION BERMS ARE LEFT IN PLACE LONGER THAN 14 CALENDAR DAYS, THEY SHALL BE STABILIZED TO PREVENT SEDIMENT RUNOFF.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
221A0	TEMPORARY SLOPE DRAIN	LF



PROFILE VIEW
(DIVERSION BERM NOT SHOWN)

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

TSD

APPROVED BY ROADWAY ENGINEER: RGWE DATE: 6/24/25

ROADWAY DESIGN DIVISION STANDARD

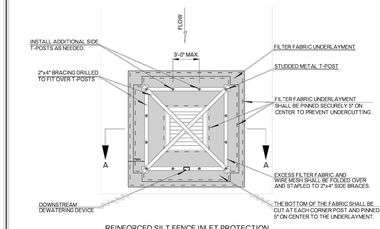
TEMPORARY SLOPE DRAIN

OKLAHOMA Transportation

2019 SPECIFICATIONS

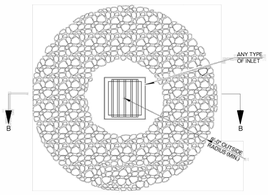
SD	0
R-12	

SD C4501 TEMPORARY SLOPE DRAIN DETAIL NTS



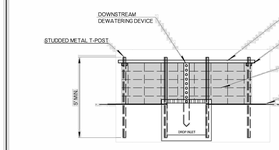
REINFORCED SILT FENCE INLET PROTECTION
MAX. Q = 5 TO 7 CFS
MAX. DRAIN AREA = 2 ACRES

PLAN VIEW

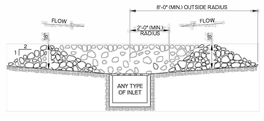


AGGREGATE INLET PROTECTION
MAX. Q = 3 TO 5 CFS
MAX. DRAIN AREA = 1 ACRE

PLAN VIEW



SECTION A-A



SECTION B-B

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2019 ODOT STANDARD SPECIFICATIONS.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.

   REINFORCED SILT FENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF REINFORCED SILT FENCE IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
5. DEWATERING HOLES IN THE DEWATERING DEVICE SHALL BE 1 TO 1 1/2 INCHES IN DIAMETER AND SPACED 2 TO 3 INCHES APART TO ALLOW FOR DEWATERING. IN MORE THAN 48 HOURS. IF THIS DOESN'T FUNCTION PROPERLY, ANOTHER DEVICE CAN BE ADDED AT THE DIRECTION OF THE ENGINEER.
6. FASTEN DEWATERING DEVICE TO THE 2 INCHES BY 4 INCHES SIDE BRACE.
7. STAPLE FILTER FABRIC TO DEWATERING DEVICE AND CUT ACROSS SLITS IN THE FILTER FABRIC AT THE HOLE LOCATIONS TO ALLOW WATER TO FLOW THROUGH. PROVIDE FILTER FABRIC IN ACCORDANCE WITH AASHTO M 288 SPECIFICATION.
8. PRICE BID FOR THE REINFORCED SILT FENCE INLET PROTECTION WILL INCLUDE FILTER FABRIC, POSTS, WIRE MESH, WOOD BRACING, DEWATERING DEVICE AND ALL INCIDENTALS REQUIRED TO COMPLETE ITS INSTALLATION. THIS INLET PROTECTION DEVICE SHALL BE PAID FOR AS TEMPORARY INLET SEDIMENT FILTER, WITH UNITS OF EACH.

   ROCK GRADATION FOR THE AGGREGATE INLET PROTECTION ITEM TEMPORARY SEDIMENT FILTERS SHALL BE AS FOLLOWS:

PERCENT PASSING	SIEVE SIZE
100	4 INCH
90-100	3.5 INCH
25-60	2.5 INCH
0-15	1.5 INCH
0-5	3/4 INCH

10. COST FOR ALL MATERIALS, LABOR AND MAINTENANCE OF THE AGGREGATE INLET PROTECTION SHALL BE PAID FOR AS TEMPORARY INLET SEDIMENT FILTER, WITH UNITS OF EACH.
11. INLET PROTECTION DEVICES SHALL BE LEFT IN PLACE UNTIL THE DRAINAGE AREA IS PERMANENTLY STABILIZED WITH ESTABLISHED VEGETATION OR PAVEMENT.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
213TS	SILT/SEDIMENT INLET SEDIMENT FILTER	EA

SYMBOLOGY

SYMBOL TO BE USED TO DENOTE DEVICE ON PLANS

AGGREGATE INLET PROTECTION — IP2

REINFORCED SILT FENCE INLET PROTECTION — IP3

APPROVED BY ROADWAY ENGINEER: RGWE DATE: 6/24/25

ROADWAY DESIGN DIVISION STANDARD

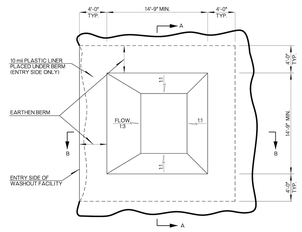
INLET PROTECTION
(AGGREGATE AND REINFORCED SILT FENCE APPLICATIONS)

OKLAHOMA Transportation

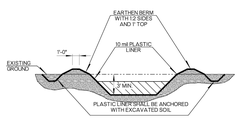
2019 SPECIFICATIONS

IPD	0
R-6	

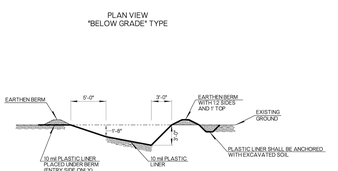
IP C4501 INLET PROTECTION DETAIL NTS



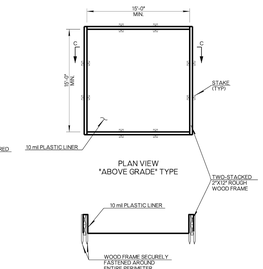
PLAN VIEW
"BELOW GRADE" TYPE



SECTION A-A



SECTION B-B



PLAN VIEW
"ABOVE GRADE" TYPE

SECTION C-C

GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH SECTION 220.04 (K)3 OF THE 2019 ODOT STANDARD SPECIFICATIONS.
2. TEMPORARY CONCRETE WASHOUT DEVICES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR. WASHOUT DEVICE SHOULD BE CONSTRUCTED AND MAINTAINED IN SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
3. PROVIDE A WASHOUT AREA A MINIMUM OF 50 FEET AWAY FROM INLETS, SWALES, DRAINAGE WAYS AND CHANNELS. IF THE SITE CONFIGURATION PROVIDES SUFFICIENT SPACE TO DO SO, IN NO CASE SHALL THE CONCRETE WASHOUT DEVICE BE INSTALLED CLOSER THAN 20 FEET FROM INLETS, SWALES, DRAINAGE WAYS AND CHANNELS.
4. PLASTIC LINER SHALL CONFORM TO ASTM D-4397, BE A MINIMUM OF 10 MIL (0.10 INCHES) THICK, AND FREE OF ALL TEARS AND HOLES AND BE IMPERMEABLE.
5. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE LOCATION OF THE CONCRETE WASHOUT DEVICE, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE FACILITY TO OPERATORS OF CONCRETE TRUCKS AND PUMP RIGS.
6. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.
7. THE CONCRETE WASHOUT DEVICE SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE, AND SHOULD REMAIN IN PLACE UNTIL ALL CONCRETE FOR THE PROJECT IS PLACED.
8. CONCRETE MATERIALS ACCUMULATED IN PIT, SHALL BE REMOVED ALONG WITH THE PLASTIC LINER, ONCE THE PIT HAS REACHED 50% CAPACITY, USING SUITABLE WATER TIGHT CONTAINERS AND DISPOSED OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS OR IN A MANNER APPROVED BY THE RESIDENT ENGINEER.
9. ALL MATERIALS, LABOR AND SIGNS NEEDED TO CONSTRUCT AND MAINTAIN THE CONCRETE WASHOUT DEVICE SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
10. ALTERNATE DESIGNS OF THE CONCRETE WASHOUT DEVICE MAY BE USED IF APPROVED BY THE ENGINEER.

APPROVED BY ROADWAY ENGINEER: RGWE DATE: 6/24/25

ROADWAY DESIGN DIVISION STANDARD

CONCRETE WASHOUT APPLICATIONS

OKLAHOMA Transportation

2019 SPECIFICATIONS

CWA	0
R-13	

CW C4501 CONCRETE WASHOUT AREA DETAIL NTS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-4500 EROSION CONTROL DETAILS 7/24/2025 5:30 PM

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(918) 380-8868

OKLAHOMA PROFESSIONAL ENGINEER DEVIN RANDALL 24001 04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	JLF
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1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

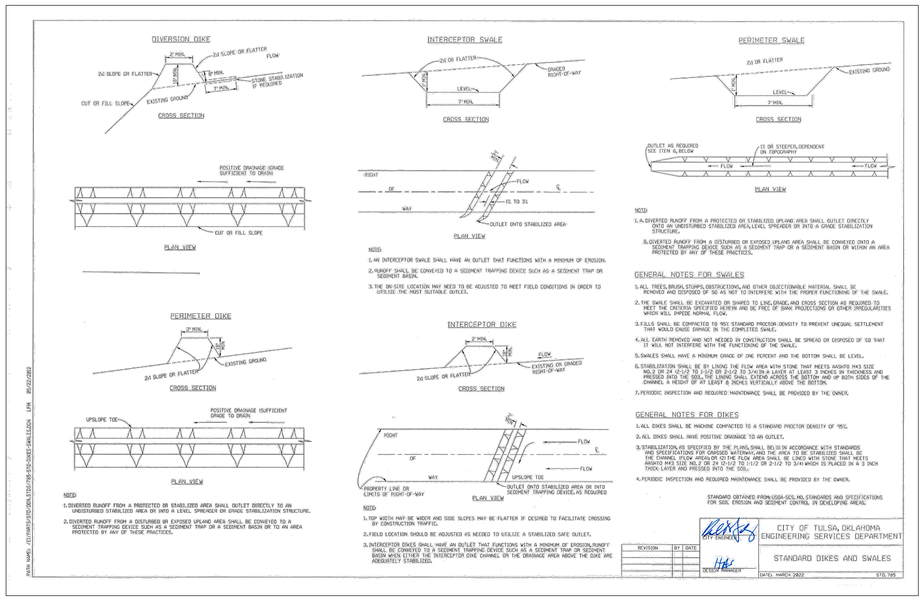
PROJ. NO.: 10434535

EROSION CONTROL DETAILS

SCALE: AS SHOWN

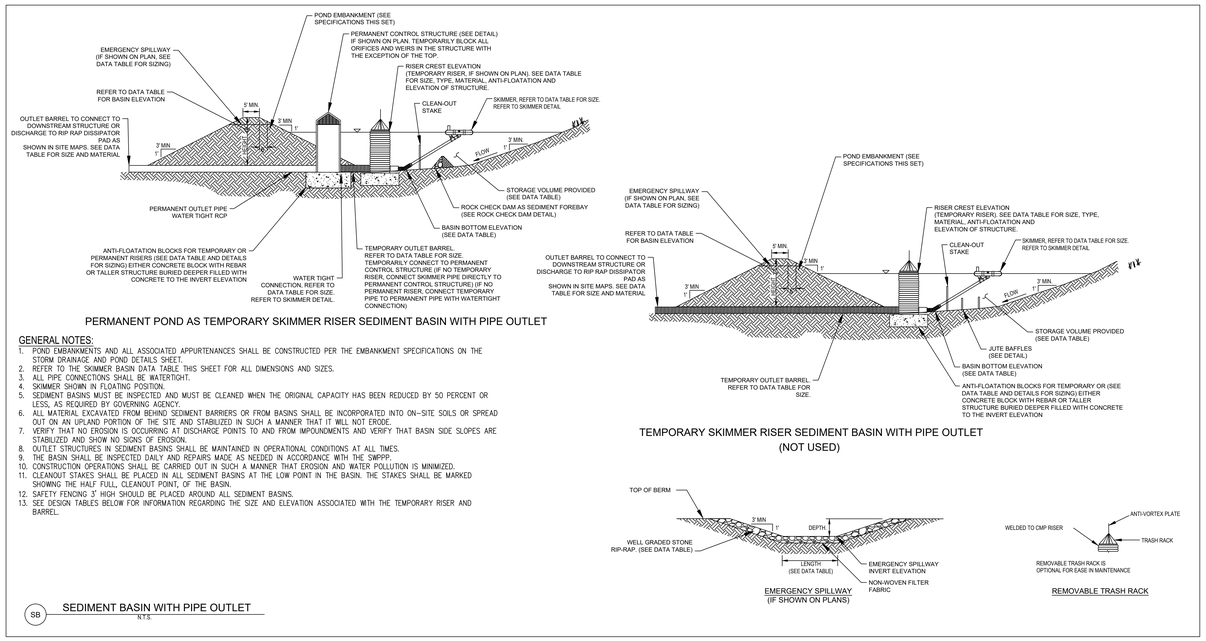
SHEET NUMBER:
1A-C-4501

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



DD C4502 DIVERSION DITCH DETAIL

NTS



PERMANENT POND AS TEMPORARY SKIMMER RISER SEDIMENT BASIN WITH PIPE OUTLET

GENERAL NOTES:

1. POND EMBANKMENTS AND ALL ASSOCIATED APPURTENANCES SHALL BE CONSTRUCTED PER THE EMBANKMENT SPECIFICATIONS ON THE STORM DRAINAGE AND POND DETAILS SHEET.
2. REFER TO THE SKIMMER BASIN DATA TABLE THIS SHEET FOR ALL DIMENSIONS AND SIZES.
3. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.
4. SKIMMER SHOWN IN FLOATING POSITION.
5. SEDIMENT BASINS MUST BE INSPECTED AND MUST BE CLEANED WHEN THE ORIGINAL CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR LESS, AS REQUIRED BY GOVERNING AGENCY.
6. ALL MATERIAL EXCAVATED FROM BEHIND SEDIMENT BARRIERS OR FROM BASINS SHALL BE INCORPORATED INTO ON-SITE SOILS OR SPREAD OUT ON AN UPLAND PORTION OF THE SITE AND STABILIZED IN SUCH A MANNER THAT IT WILL NOT ERODE.
7. VERIFY THAT NO EROSION IS OCCURRING AT DISCHARGE POINTS TO AND FROM IMPOUNDMENTS AND VERIFY THAT BASIN SIDE SLOPES ARE STABILIZED AND SHOW NO SIGNS OF EROSION.
8. OUTLET STRUCTURES IN SEDIMENT BASINS SHALL BE MAINTAINED IN OPERATIONAL CONDITIONS AT ALL TIMES.
9. THE BASIN SHALL BE INSPECTED DAILY AND REPAIRS MADE AS NEEDED IN ACCORDANCE WITH THE SWPPP.
10. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
11. CLEANOUT STAKES SHALL BE PLACED IN ALL SEDIMENT BASINS AT THE LOW POINT IN THE BASIN. THE STAKES SHALL BE MARKED SHOWING THE HALF FULL, CLEANOUT POINT, OF THE BASIN.
12. SAFETY FENCING 3' HIGH SHOULD BE PLACED AROUND ALL SEDIMENT BASINS.
13. SEE DESIGN TABLES BELOW FOR INFORMATION REGARDING THE SIZE AND ELEVATION ASSOCIATED WITH THE TEMPORARY RISER AND BARREL.

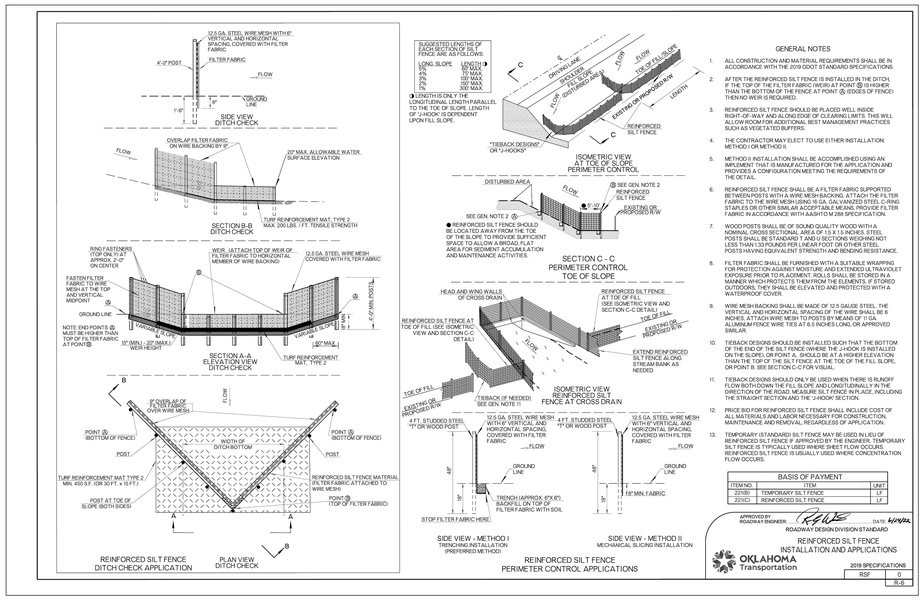
TEMPORARY SKIMMER RISER SEDIMENT BASIN WITH PIPE OUTLET
(NOT USED)

EMERGENCY SPILLWAY (IF SHOWN ON PLANS)

REMOVABLE TRASH RACK

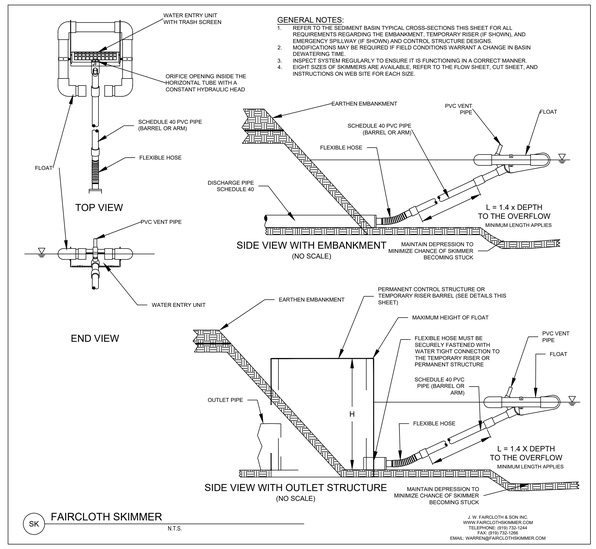
SB SEDIMENT BASIN WITH PIPE OUTLET

N.T.S.



JH C4502 REINFORCED J-HOOK SILT FENCE DETAIL

NTS



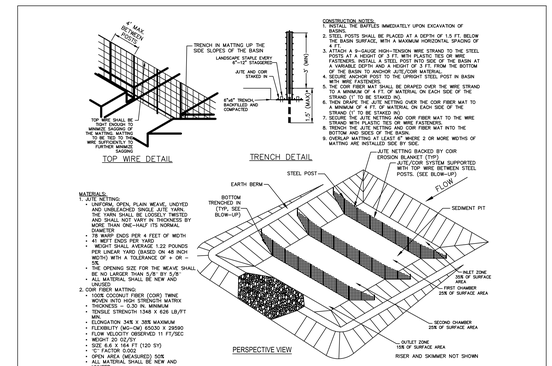
GENERAL NOTES:

1. REFER TO THE SEDIMENT BASIN TYPICAL CROSS-SECTIONS THIS SHEET FOR ALL REQUIREMENTS REGARDING THE EMBANKMENT, TEMPORARY RISER (IF SHOWN), AND EMERGENCY SPILLWAY (IF SHOWN) AND CONTROL STRUCTURE DESIGNS.
2. MODIFICATIONS MAY BE REQUIRED IF FIELD CONDITIONS WARRANT A CHANGE IN BASIN DEWATERING TIME.
3. INSPECT SYSTEM REGULARLY TO ENSURE IT IS FUNCTIONING IN A CORRECT MANNER.
4. EIGHT SIZES OF SKIMMERS ARE AVAILABLE. REFER TO THE FLOW SHEET, CUT SHEET, AND INSTRUCTIONS ON WEB SITE FOR EACH SIZE.

SK FAIRCLOTH SKIMMER

N.T.S.

J. W. FAIRCLOTH & SON INC.
WWW.FAIRCLOTHSKIMMER.COM
TELEPHONE: (910) 732-1244
FAX: (910) 732-1266
EMAIL: WARREN@FAIRCLOTHSKIMMER.COM



JB C4502 TEMPORARY JUTE NET BAFFLES

Not to Scale

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1	APPRV'D:
			DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

EROSION CONTROL DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-4502

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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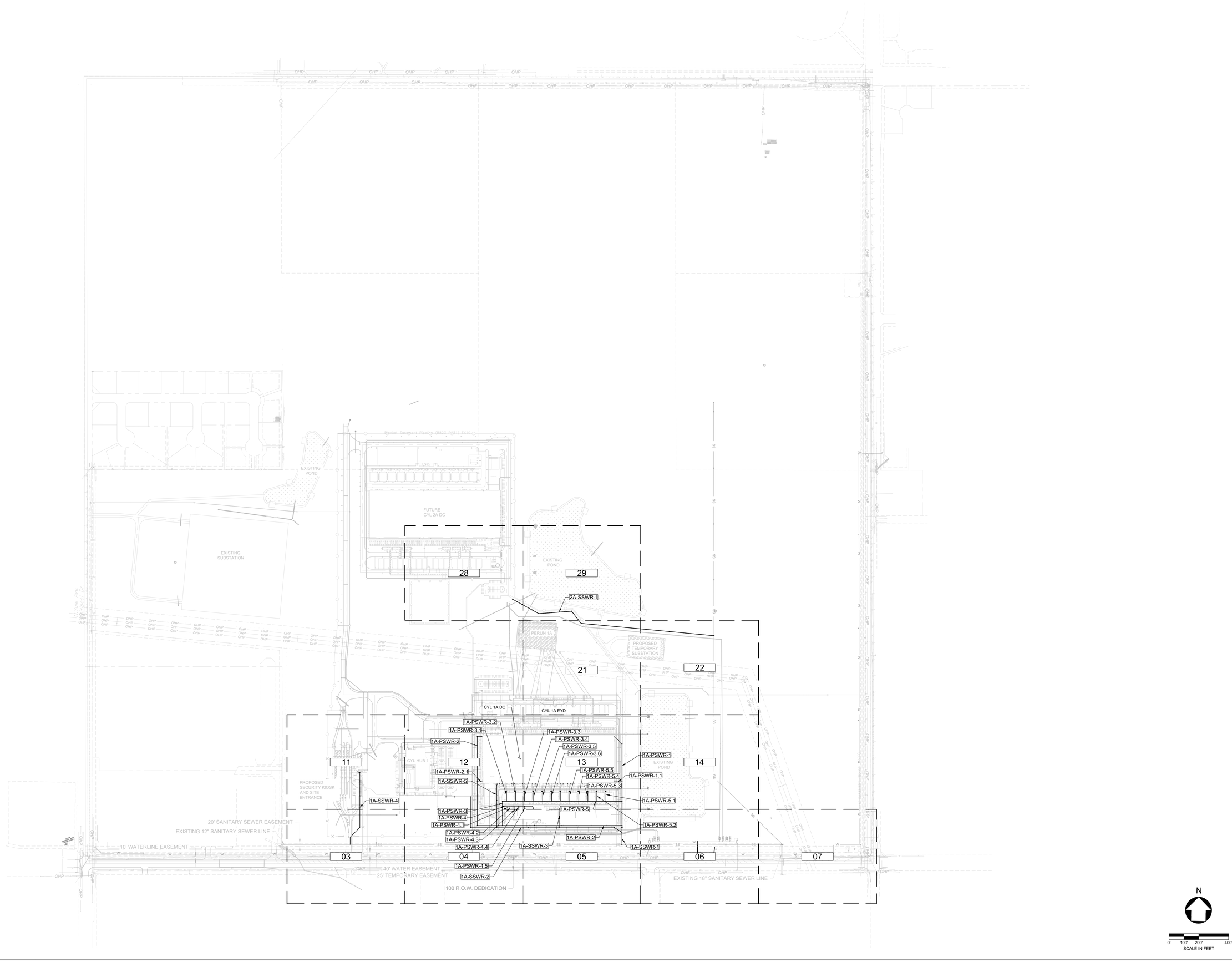

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434535

SANITARY SEWER PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5000

PAPER SIZE: E (36"x48")
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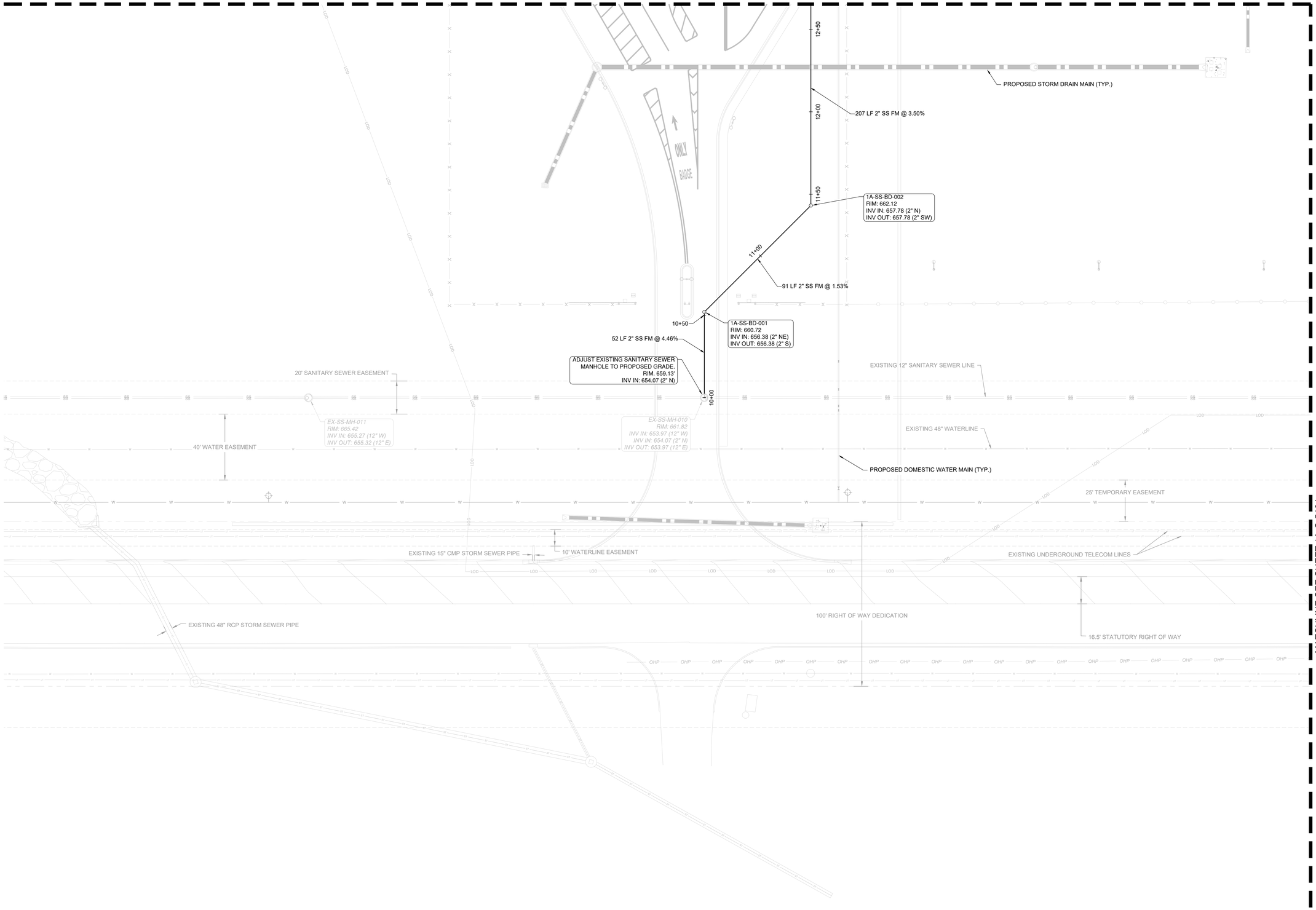
MATCHLINE SEE SHEET 1A-C-5111



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
   - 1A. DRAIN BOX A - SEE DETAIL 4/1A-C-5500
   - 1B. DRAIN BOX B - SEE DETAIL 5/1A-C-5500
2. "BX" INDICATES A WYE WITH A VERTICAL PIPE TO SURFACE AT BOTTOM OF MWT DRAIN BOX - SEE DETAIL 1/1A-C-5500.
3. EXTERIOR GRAVITY CLEANOUT - SEE DETAIL 2/1A-C-5500.
4. EXTERIOR DROP CONNECTION TO PROPOSED MH. SEE DETAIL ON SHEET 1A-C-5501
5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

1. ALL SANITARY SEWER ALIGNMENTS ARE AT PIPE CENTERLINE.
2. SEE SHEET 1A-C-5000 FOR SANITARY SEWER MAIN ALIGNMENT NAMES.
3. ALL BEND NAMES, STATIONS, AND ANGLES ARE SHOWN IN PROFILE SHEETS.
4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

MATCHLINE SEE SHEET 1A-C-5104

N

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SCALE IN FEET

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OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5103

PAPER SIZE: E (36"x48")
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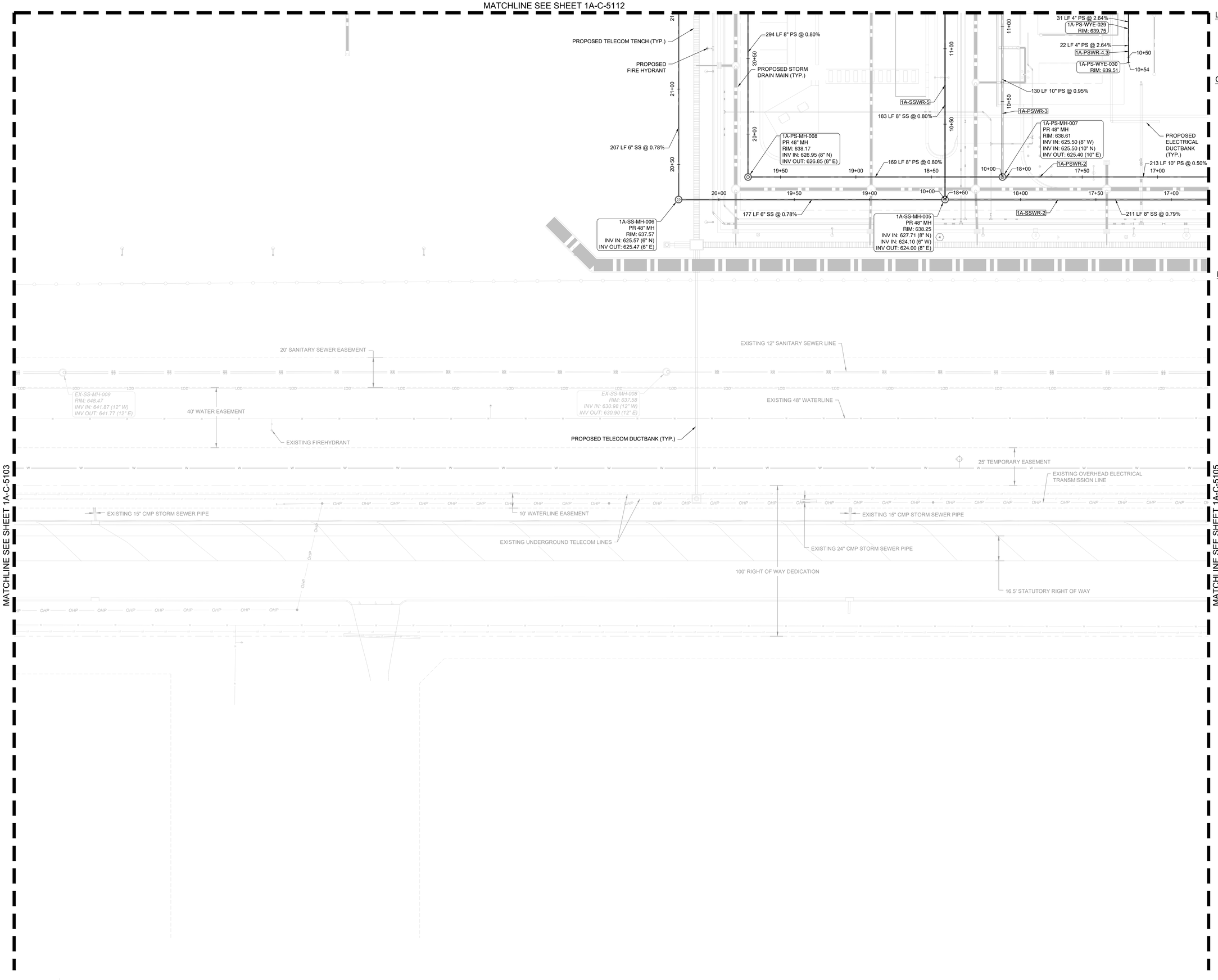
MATCHLINE SEE SHEET 1A-C-5112



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
   - 1A DRAIN BOX A - SEE DETAIL 4/1A-C-5500
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2. "BX" INDICATES A WYE WITH A VERTICAL PIPE TO SURFACE AT BOTTOM OF MWT DRAIN BOX - SEE DETAIL 1/1A-C-5500.
3. EXTERIOR GRAVITY CLEANOUT - SEE DETAIL 2/1A-C-5500.
4. EXTERIOR DROP CONNECTION TO PROPOSED MH. SEE DETAIL ON SHEET 1A-C-5501
5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

1. ALL SANITARY SEWER ALIGNMENTS ARE AT PIPE CENTERLINE.
2. SEE SHEET 1A-C-5000 FOR SANITARY SEWER MAIN ALIGNMENT NAMES.
3. ALL BEND NAMES, STATIONS, AND ANGLES ARE SHOWN IN PROFILE SHEETS.
4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

MATCHLINE SEE SHEET 1A-C-5103

MATCHLINE SEE SHEET 1A-C-5105

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OKLAHOMA
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PROJECT ADDRESS:
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PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5104

PAPER SIZE: E (36"x48")
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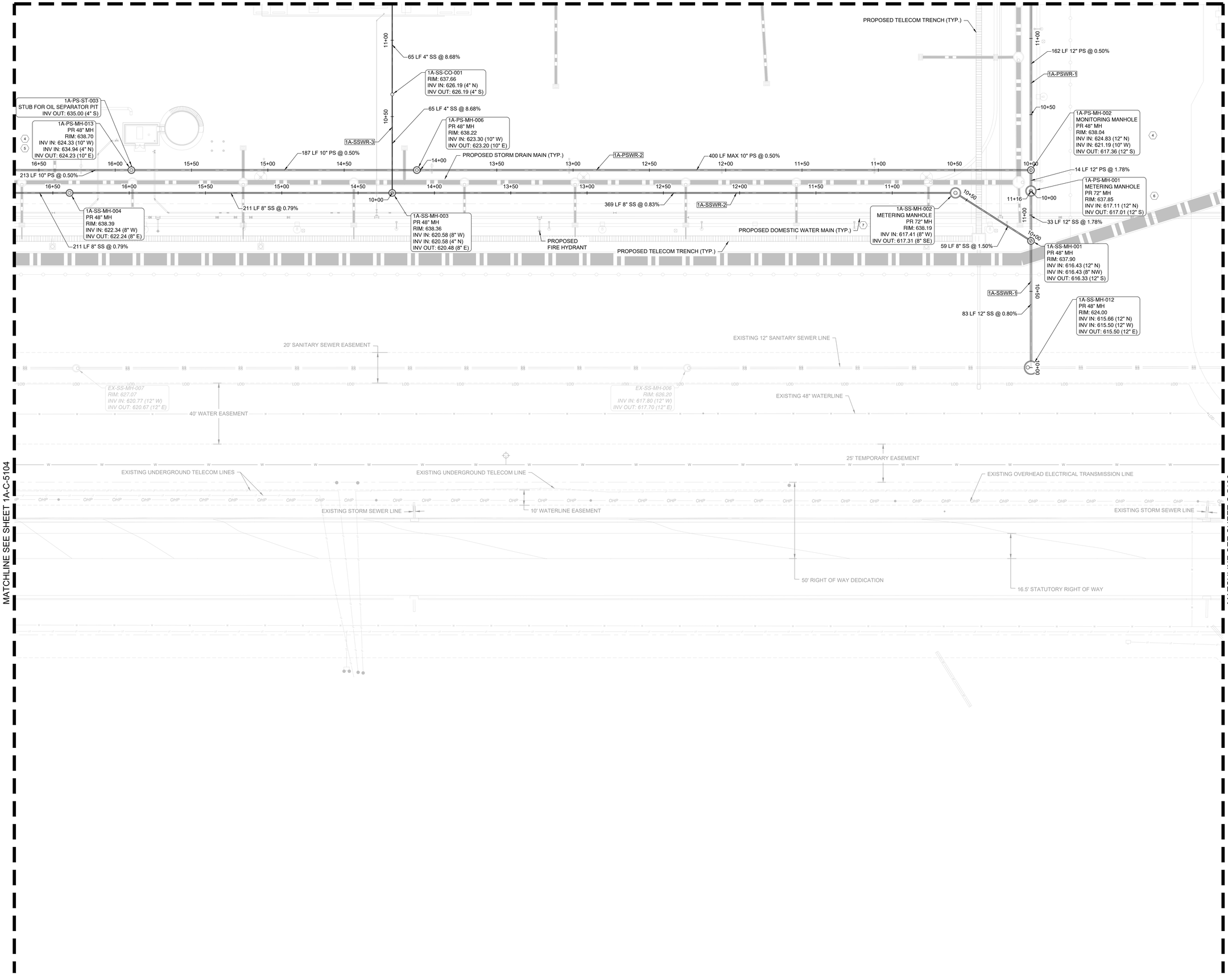
MATCHLINE SEE SHEET 1A-C-5113



MATCHLINE SEE SHEET 1A-C-5104

MATCHLINE SEE SHEET C-5106

LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
   - 1A DRAIN BOX A - SEE DETAIL 4/1A-C-5500
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5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

1. ALL SANITARY SEWER ALIGNMENTS ARE AT PIPE CENTERLINE.
2. SEE SHEET 1A-C-5000 FOR SANITARY SEWER MAIN ALIGNMENT NAMES.
3. ALL BEND NAMES, STATIONS, AND ANGLES ARE SHOWN IN PROFILE SHEETS.
4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-5114

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

20' SANITARY SEWER EASEMENT

EXISTING 12" SANITARY SEWER LINE

BO(4)

EX-SS-MH-005
RIM: 621.00
INV IN: 613.82 (12" W)
INV OUT: 613.85 (12" E)

40' WATER EASEMENT

EXISTING 48" WATERLINE

EX-SS-MH-004
RIM: 624.17
INV IN: 609.63 (12" W)
INV OUT: 609.64 (12" E)

EX-SS-MH-003
RIM: 608.50
INV IN: 600.29 (12" W)
INV OUT: 600.31 (12" E)

GATE

25' TEMPORARY EASEMENT

10' WATERLINE EASEMENT

100' RIGHT OF WAY DEDICATION

16.5' STATUTORY RIGHT OF WAY

MATCHLINE SEE SHEET 1A-C-5105

MATCHLINE SEE SHEET 1A-C-5107

LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
   - 1A. DRAIN BOX A - SEE DETAIL 4/1A-C-5500
   - 1B. DRAIN BOX B - SEE DETAIL 5/1A-C-5500
2. "BX" INDICATES A WYE WITH A VERTICAL PIPE TO SURFACE AT BOTTOM OF MWT DRAIN BOX - SEE DETAIL 1/1A-C-5500.
3. EXTERIOR GRAVITY CLEANOUT - SEE DETAIL 2/1A-C-5500.
4. EXTERIOR DROP CONNECTION TO PROPOSED MH. SEE DETAIL ON SHEET 1A-C-5501
5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

1. ALL SANITARY SEWER ALIGNMENTS ARE AT PIPE CENTERLINE.
2. SEE SHEET 1A-C-5000 FOR SANITARY SEWER MAIN ALIGNMENT NAMES.
3. ALL BEND NAMES, STATIONS, AND ANGLES ARE SHOWN IN PROFILE SHEETS.
4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5106 SANITARY SEWER PLAN 4/2/2026 12:01 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5106

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-5106

150' ELECTRICAL EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINES

EXISTING 24" SANITARY SEWER LINE

EXISTING 12" SANITARY SEWER LINE

BO(4)

EX-SS-MH-001
RIM: 603.32
INV IN: 589.07 (12" W)

20' SANITARY SEWER EASEMENT

40' WATER EASEMENT

EXISTING 18" SANITARY SEWER LINE

EXISTING 48" WATERLINE

25' TEMPORARY EASEMENT

10' WATERLINE EASEMENT

100' RIGHT OF WAY DEDICATION

16.5' STATUTORY RIGHT OF WAY

15' Utility Easement

LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
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6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

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N

0' 10' 20' 40'
SCALE IN FEET

MATCHLINE SEE SHEET 1A-C-5106

C:\ACCA\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5106 SANITARY SEWER PLAN 4/2/2026 12:01 AM

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

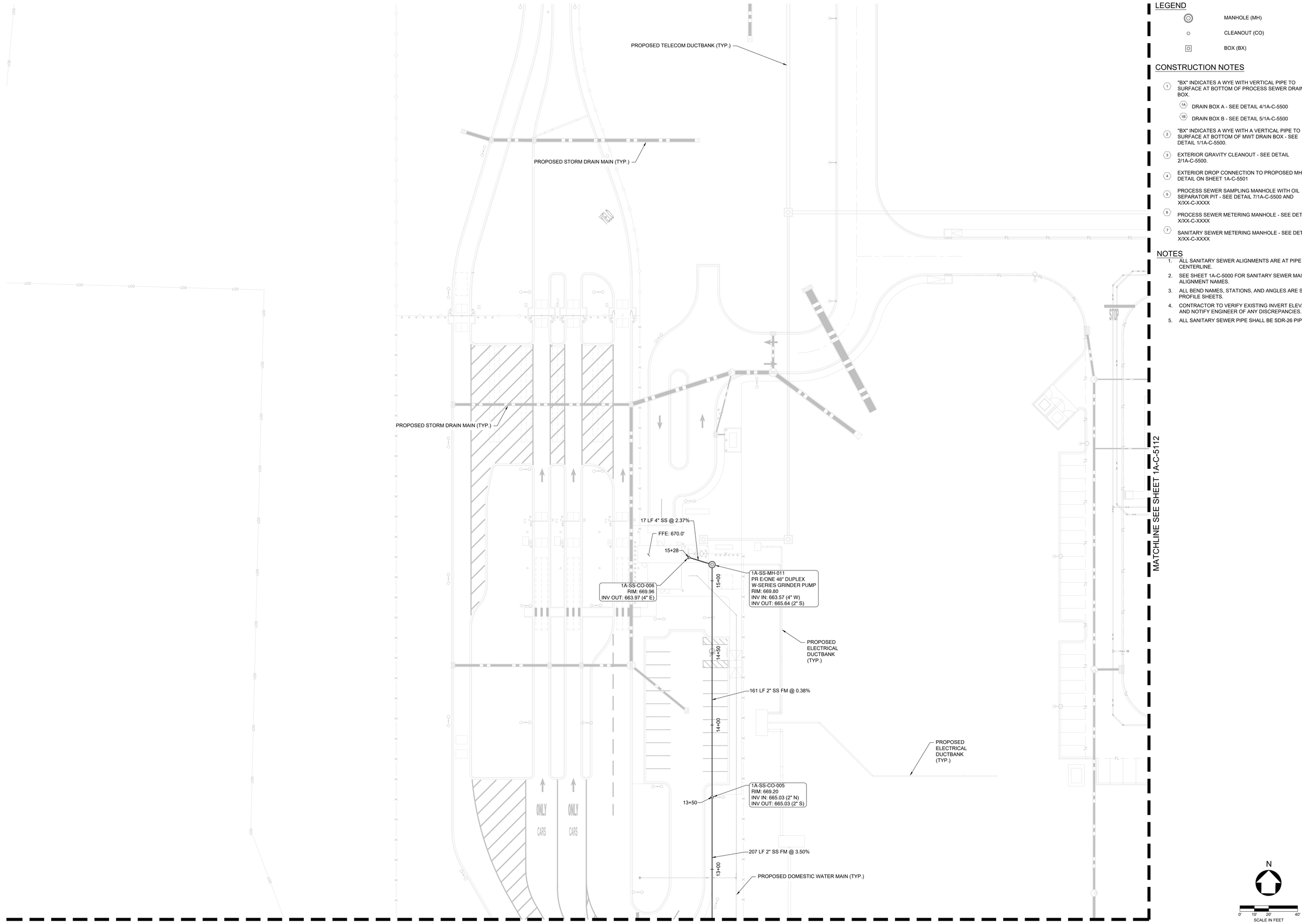
PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5107

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

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N

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SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5101 SANITARY SEWER PLAN 4/1/2026 11:49 PM

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04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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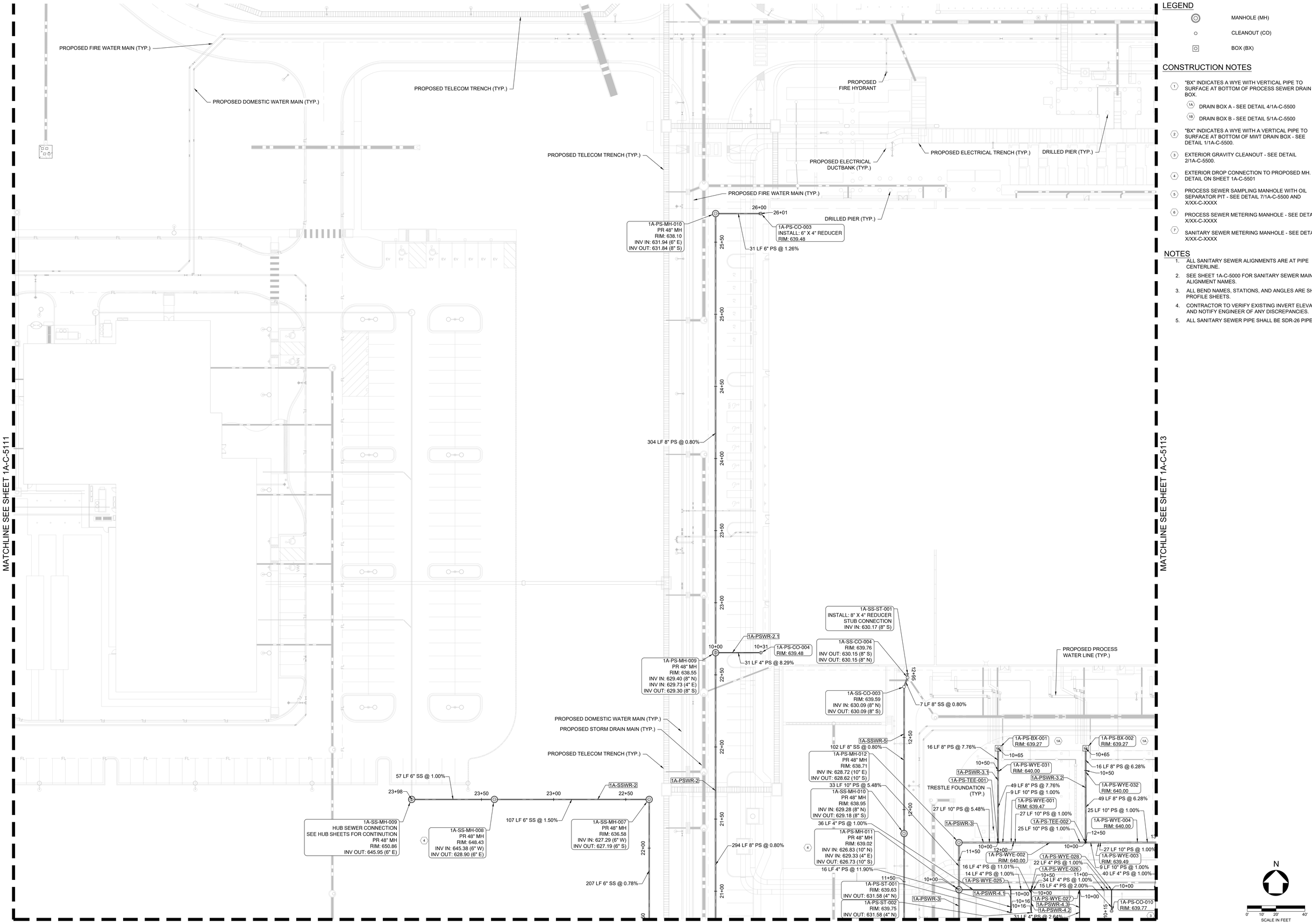
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SANITARY SEWER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5111
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

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- CLEANOUT (CO)
- BOX (BX)

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C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5101 SANITARY SEWER PLAN 4/1/2026 11:49 PM

HDR, INC.
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OKLAHOMA
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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5112

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-5121

MATCHLINE SEE SHEET 1A-C-5112

MATCHLINE SEE SHEET 1A-C-5114

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED FIRE HYDRANT

PROPOSED STORM DRAIN MAIN (TYP.)

DRILLED PIER (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

1A-PS-CO-001
RIM: 639.43

16+33

16+00

PROPOSED FIRE WATER MAIN (TYP.)

70 LF 4" PS @ 2.31%

1A-PS-MH-005
PR 48" MH
RIM: 638.44
INV IN: 629.55 (4" NW)
INV OUT: 629.45 (8" S)

PROPOSED TELECOM TRENCH (TYP.)

15+50

15+00

14+50

255 LF 8" PS @ 1.00%

14+00

PROPOSED DOMESTIC WATER MAIN (TYP.)

13+50

PROPOSED PROCESS WATER LINE (TYP.)

50 LF 4" PS @ 2.25%

10+50

10+00

1A-PS-CO-002
RIM: 639.43

1A-PSWR-1.1

13+00

1A-PS-MH-004
PR 48" MH
RIM: 638.66
INV IN: 626.89 (8" N)
INV IN: 627.23 (4" W)
INV OUT: 626.79 (8" S)

12+50

132 LF 8" PS @ 0.80%

12+00

1A-PS-MH-003
PR 48" MH
RIM: 638.35
INV IN: 625.74 (8" N)
INV IN: 629.86 (10" W)
INV OUT: 625.64 (12" S)

4

1A-PS-CO-024
RIM: 640.00

1A-PSWR-5

11+50

162 LF 12" PS @ 0.50%

1A-PSWR-1

PROPOSED ELECTRICAL DUCTBANK (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

1A-SSWR-3

11+30

1A-SS-CO-002
INSTALL: 4" X 3" REDUCER
RIM: 639.11
INV OUT: 631.83 (4" S)

1A-PS-CO-013
RIM: 639.49

1A-PS-CO-012
RIM: 640.00

1A-PS-CO-011
RIM: 639.62

1A-PS-CO-009
RIM: 639.58

1A-PS-CO-008
RIM: 639.35

1A-PS-CO-007
RIM: 639.44

1A-PS-CO-006
RIM: 640.00

1A-PS-CO-005
RIM: 639.99

1A-PS-BX-003 RIM: 639.27
1A-PS-BX-004 RIM: 639.27
1A-PS-BX-005 RIM: 639.27
1A-PS-BX-006 RIM: 639.27
1A-PS-BX-007 RIM: 639.27
1A-PS-BX-008 RIM: 639.27
1A-PS-BX-009 RIM: 639.27
1A-PS-BX-010 RIM: 639.27
1A-PS-BX-011 RIM: 639.27
1A-PS-BX-012 RIM: 639.27

1A-PSWR-3.4
1A-PSWR-3.5
1A-PSWR-3.6
1A-PSWR-5
1A-PSWR-5.5
1A-PSWR-5.4
1A-PSWR-5.3
1A-PSWR-5.2
1A-PSWR-5.1
1A-PSWR-3.3

16 LF 8" PS @ 5.53%
16 LF 8" PS @ 4.79%
16 LF 8" PS @ 4.09%
16 LF 8" PS @ 2.79%
16 LF 10" PS @ 1.65%
16 LF 8" PS @ 2.90%
16 LF 8" PS @ 3.81%
16 LF 8" PS @ 4.74%
16 LF 8" PS @ 5.67%
16 LF 8" PS @ 6.60%
7 LF 10" PS @ 1.00%
49 LF 8" PS @ 5.53%

1A-PS-WYE-033 RIM: 640.00
1A-PS-WYE-034 RIM: 640.00
1A-PS-WYE-035 RIM: 640.00
1A-PS-WYE-036 RIM: 640.00
1A-PS-WYE-037 RIM: 640.00
1A-PS-WYE-038 RIM: 640.00
1A-PS-WYE-039 RIM: 640.00
1A-PS-WYE-040 RIM: 640.00
1A-PS-WYE-041 RIM: 640.00
1A-PS-WYE-042 RIM: 640.00

49 LF 8" PS @ 4.79%
49 LF 8" PS @ 4.09%
49 LF 8" PS @ 2.79%
49 LF 10" PS @ 1.65%
49 LF 8" PS @ 2.90%
49 LF 8" PS @ 3.81%
49 LF 8" PS @ 4.74%
49 LF 8" PS @ 5.67%
49 LF 8" PS @ 6.60%

9 LF 10" PS @ 1.00%
9 LF 10" PS @ 1.40%
9 LF 10" PS @ 1.65%
11 LF 10" PS @ 1.00%

1A-PS-WYE-005 RIM: 639.49
1A-PS-WYE-007 RIM: 639.49
1A-PS-WYE-009 RIM: 639.49
1A-PS-WYE-012 RIM: 640.00
1A-PS-WYE-013 RIM: 639.49
1A-PS-WYE-015 RIM: 639.49
1A-PS-WYE-017 RIM: 639.49
1A-PS-WYE-019 RIM: 639.49
1A-PS-WYE-021 RIM: 639.49
1A-PS-WYE-023 RIM: 639.49

25 LF 10" PS @ 1.00%
25 LF 10" PS @ 1.40%
25 LF 10" PS @ 1.65%
27 LF 10" PS @ 1.00%
27 LF 10" PS @ 1.65%
72 LF 10" PS @ 1.00%

1A-PS-WYE-006 RIM: 640.00
1A-PS-WYE-008 RIM: 640.00
1A-PS-WYE-010 RIM: 640.00
1A-PS-WYE-011 RIM: 639.49
1A-PS-WYE-014 RIM: 640.00
1A-PS-WYE-016 RIM: 640.00
1A-PS-WYE-018 RIM: 640.00
1A-PS-WYE-020 RIM: 640.00
1A-PS-WYE-022 RIM: 640.00

27 LF 10" PS @ 1.40%
14 LF 10" PS @ 1.00%

20 LF 10" PS @ 1.40%

1A-PS-TEE-003
1A-PS-TEE-004
1A-PS-TEE-005
1A-PS-TEE-006
1A-PS-TEE-007
1A-PS-TEE-008
1A-PS-TEE-009
1A-PS-TEE-010
1A-PS-TEE-011

18 LF 10" PS @ 1.00%
56 LF 4" PS @ 1.00%
20 LF 4" PS @ 1.00%
20 LF 4" PS @ 2.00%

10+65
10+50
10+00
14+00
13+50
15+00
15+49
14+77
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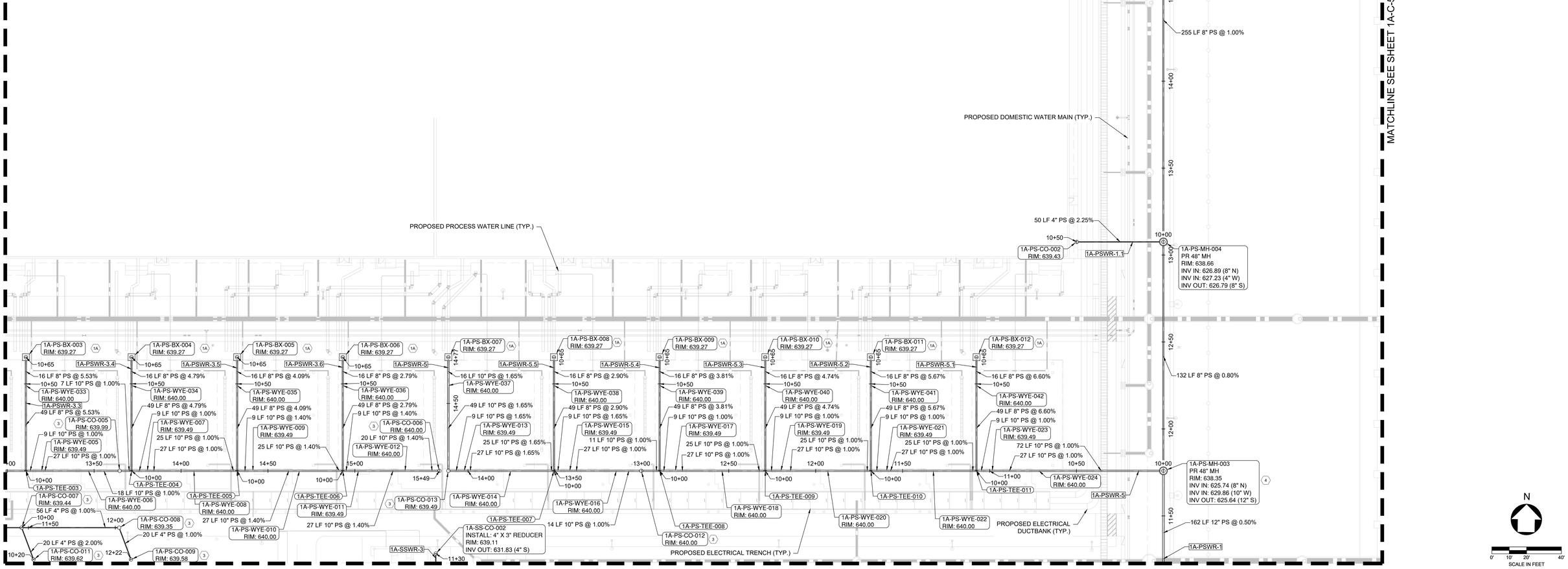
12+00
11+50
11+00
10+20
12+22



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
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C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5101 SANITARY SEWER PLAN 4/1/2026 11:49 PM

HDR, INC.
1917 SOUTH 67th STREET
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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

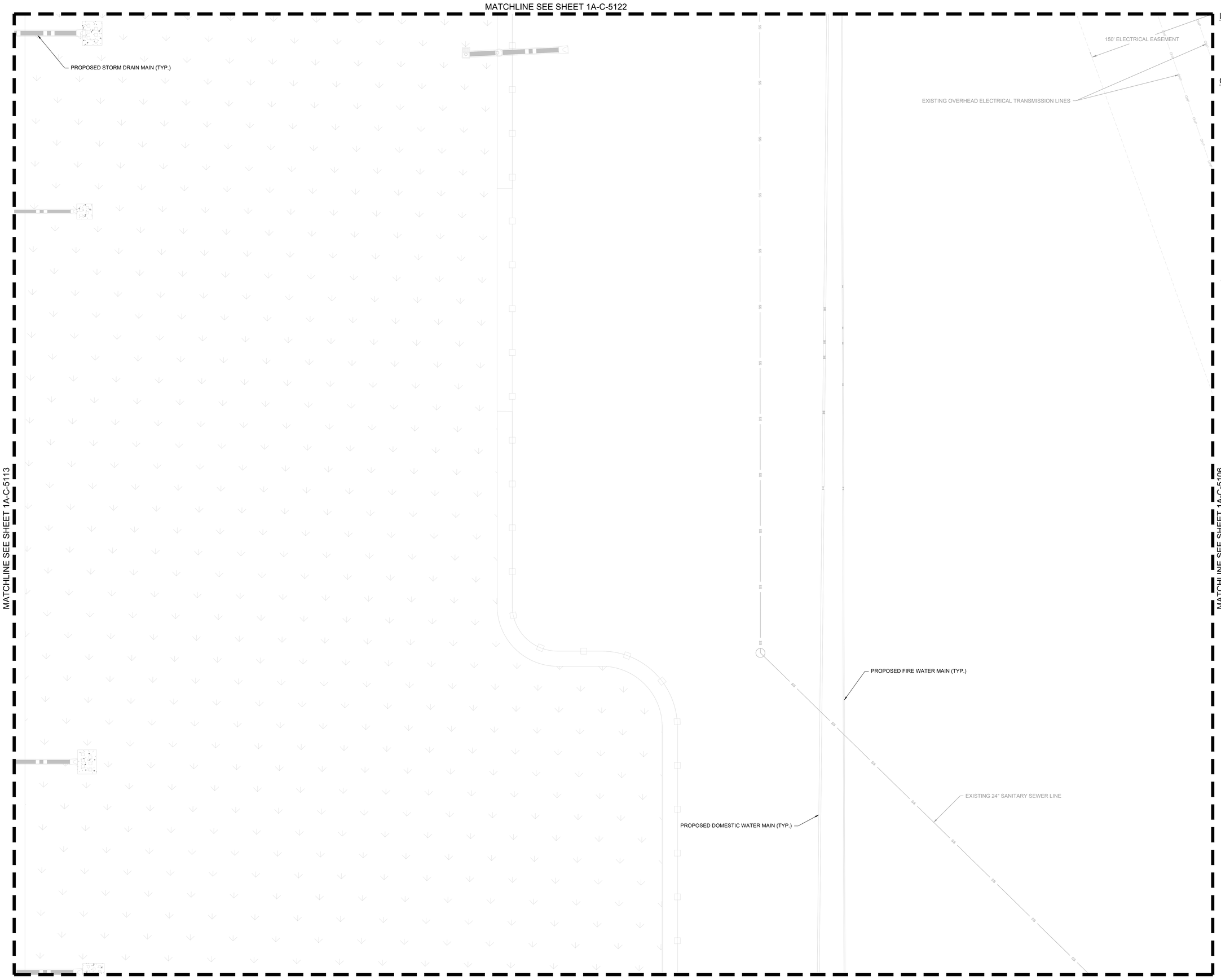
PROJ. NO.:10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

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04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5114

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-5129

104 LF 15" SS @ 1.00%

18+50

18+00

18+00

296 LF 15" SS @ 1.00%

17+50

17+00

2A-SSWR-1

16+50

2A-SS-MH-003
PR 48" MH
RIM: 625.30
INV IN: 615.94 (15" NW)
INV OUT: 615.84 (15" E)

PROPOSED DOMESTIC WATER MAIN (TYP.)

2A-SS-MH-002
PR 48" MH
RIM: 625.11
INV IN: 612.88 (15" W)
INV OUT: 612.78 (15" E)

16+00

15+50

15+00

300 LF 15" SS @ 1.00%

PROPOSED FIRE WATER MAIN (TYP.)

150' ELECTRICAL EASEMENT

EXISTING ELECTRICAL TRANSMISSION TOWER

PROPOSED TELECOM DUCTBANK (TYP.)

PROPOSED ELECTRICAL
DUCTBANK (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

MATCHLINE SEE SHEET 1A-C-5122

LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

1. "BX" INDICATES A WYE WITH VERTICAL PIPE TO SURFACE AT BOTTOM OF PROCESS SEWER DRAIN BOX.
   - 1A. DRAIN BOX A - SEE DETAIL 4/1A-C-5500
   - 1B. DRAIN BOX B - SEE DETAIL 5/1A-C-5500
2. "BX" INDICATES A WYE WITH A VERTICAL PIPE TO SURFACE AT BOTTOM OF MWT DRAIN BOX - SEE DETAIL 1/1A-C-5500.
3. EXTERIOR GRAVITY CLEANOUT - SEE DETAIL 2/1A-C-5500.
4. EXTERIOR DROP CONNECTION TO PROPOSED MH. SEE DETAIL ON SHEET 1A-C-5501
5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

1. ALL SANITARY SEWER ALIGNMENTS ARE AT PIPE CENTERLINE.
2. SEE SHEET 1A-C-5000 FOR SANITARY SEWER MAIN ALIGNMENT NAMES.
3. ALL BEND NAMES, STATIONS, AND ANGLES ARE SHOWN IN PROFILE SHEETS.
4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5106 SANITARY SEWER PLAN 6/19/2025 6:56 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

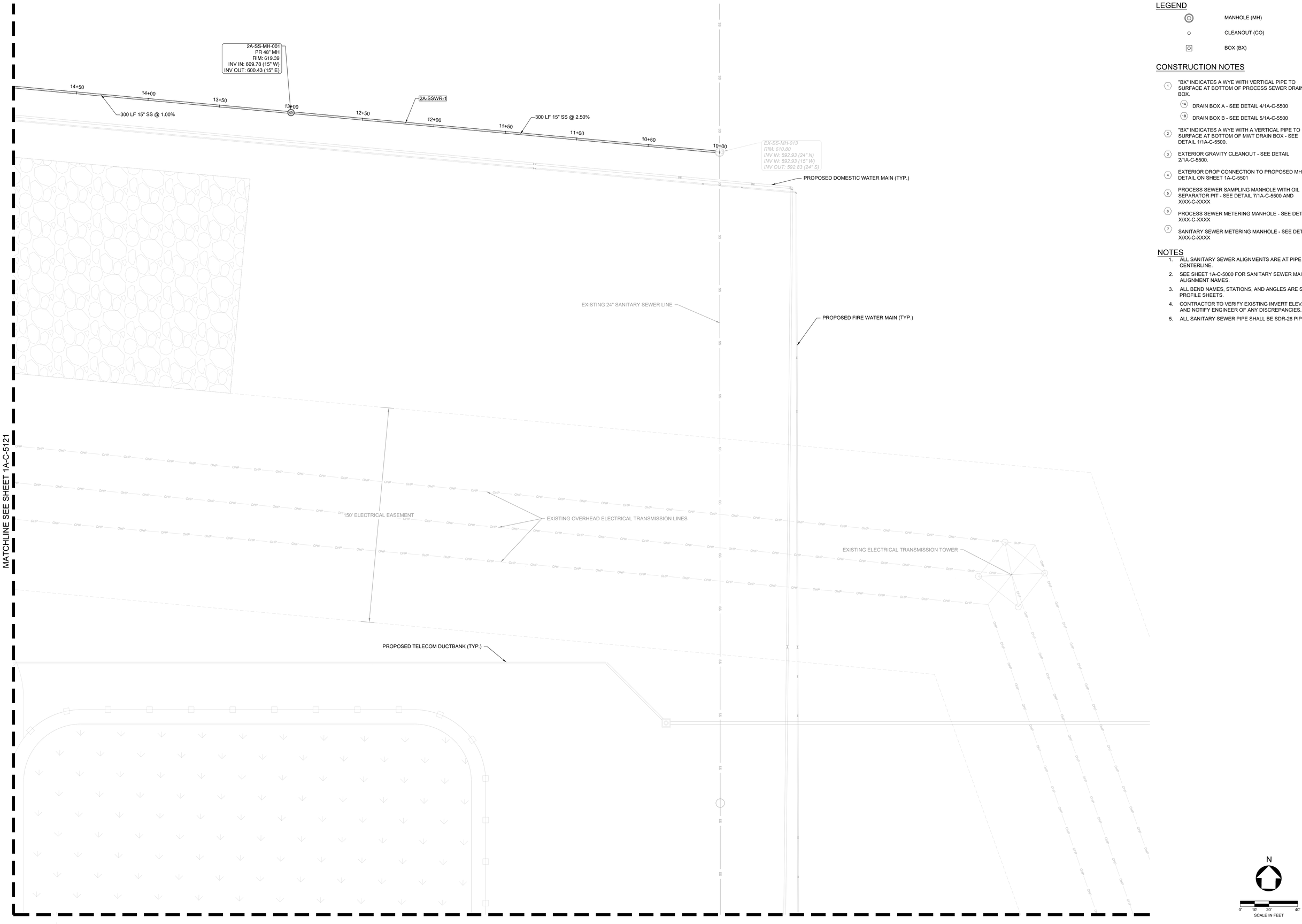
PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

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4. EXTERIOR DROP CONNECTION TO PROPOSED MH. SEE DETAIL ON SHEET 1A-C-5501
5. PROCESS SEWER SAMPLING MANHOLE WITH OIL SEPARATOR PIT - SEE DETAIL 7/1A-C-5500 AND X/XX-C-XXXX
6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

NOTES

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4. CONTRACTOR TO VERIFY EXISTING INVERT ELEVATIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
5. ALL SANITARY SEWER PIPE SHALL BE SDR-26 PIPE.

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5106 SANITARY SEWER PLAN 4/2/2028 12:01 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

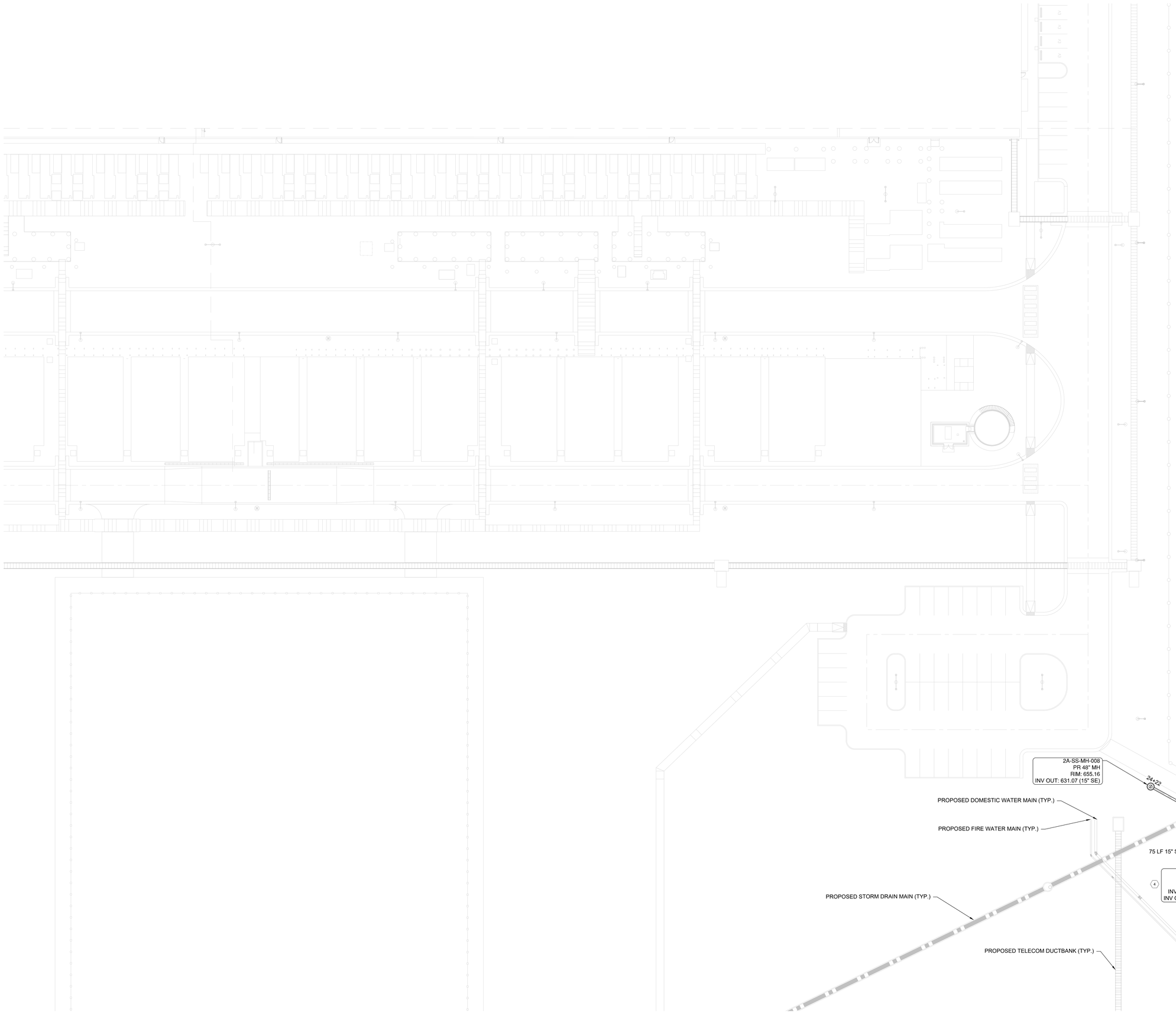
PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

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6. PROCESS SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX
7. SANITARY SEWER METERING MANHOLE - SEE DETAIL X/XX-C-XXXX

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C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5106 SANITARY SEWER PLAN 4/2/2028 12:01 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5128

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-5128

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LEGEND

- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

CONSTRUCTION NOTES

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PROPOSED STORM DRAIN MAIN (TYP.)

75 LF 15" SS @ 1.00%

2A-SS-MH-006
PR 48" MH
RIM: 632.70
INV IN: 625.57 (15" NW)
INV OUT: 619.90 (15" SE)

4

23+00

22+50

51 LF 15" SS @ 1.00%

2A-SS-MH-005
PR 48" MH
RIM: 625.84
INV IN: 619.39 (15" NW)
INV OUT: 619.29 (15" E)

22+00

21+50

21+00

221 LF 15" SS @ 1.00%

2A-SSWR-1

20+50

20+00

104 LF 15" SS @ 1.00%

2A-SS-MH-004
PR 48" MH
RIM: 623.55
INV IN: 617.08 (15" W)
INV OUT: 616.98 (15" SE)

19+50

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

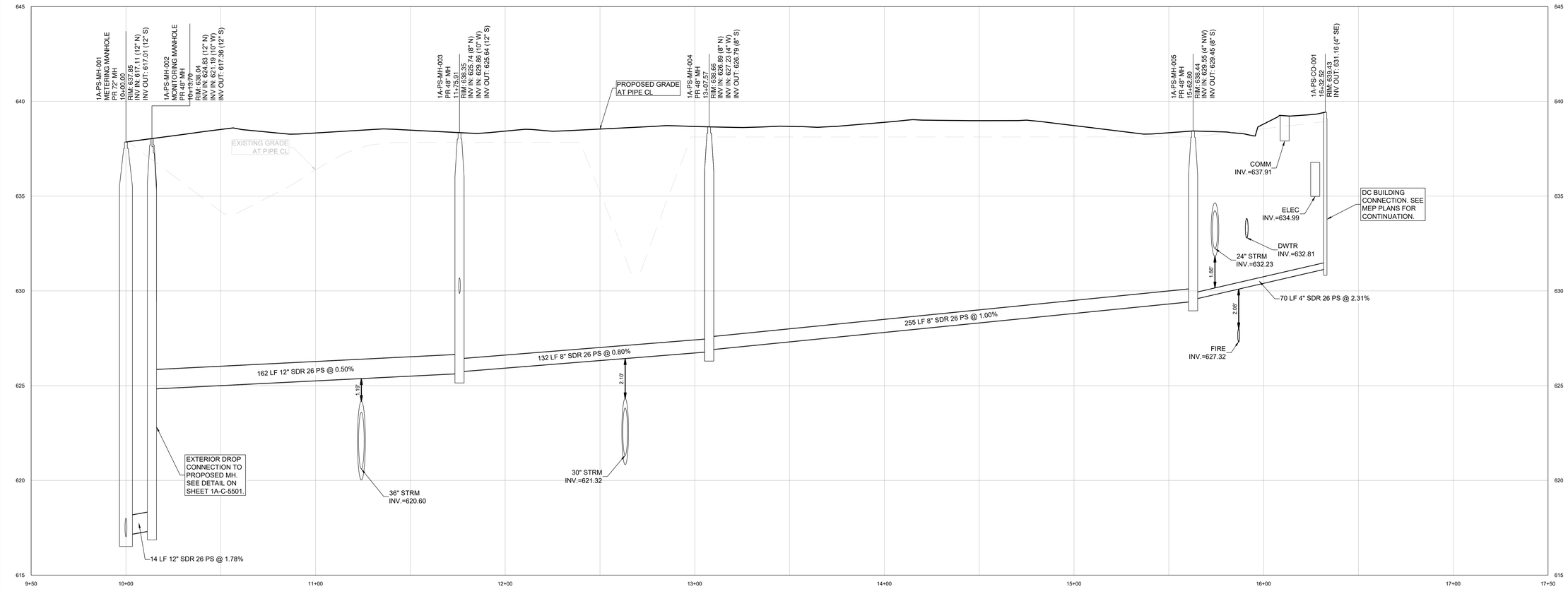
PROJ. NO.: 10434535

SANITARY SEWER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5129

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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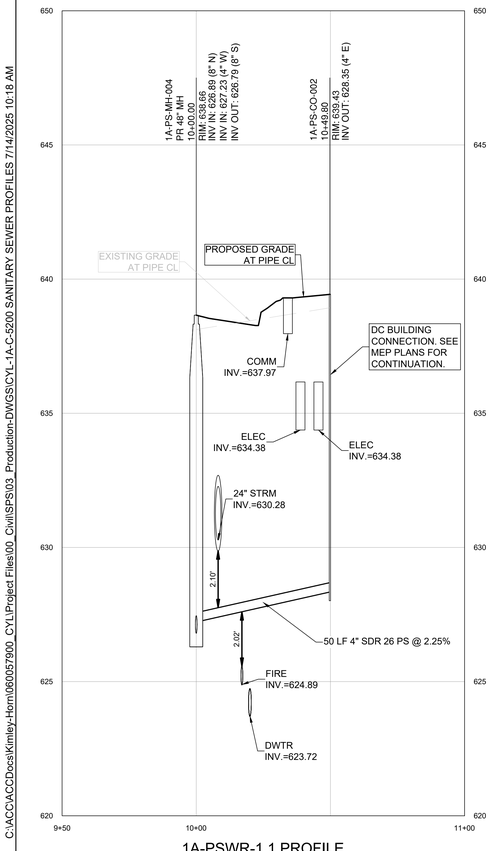

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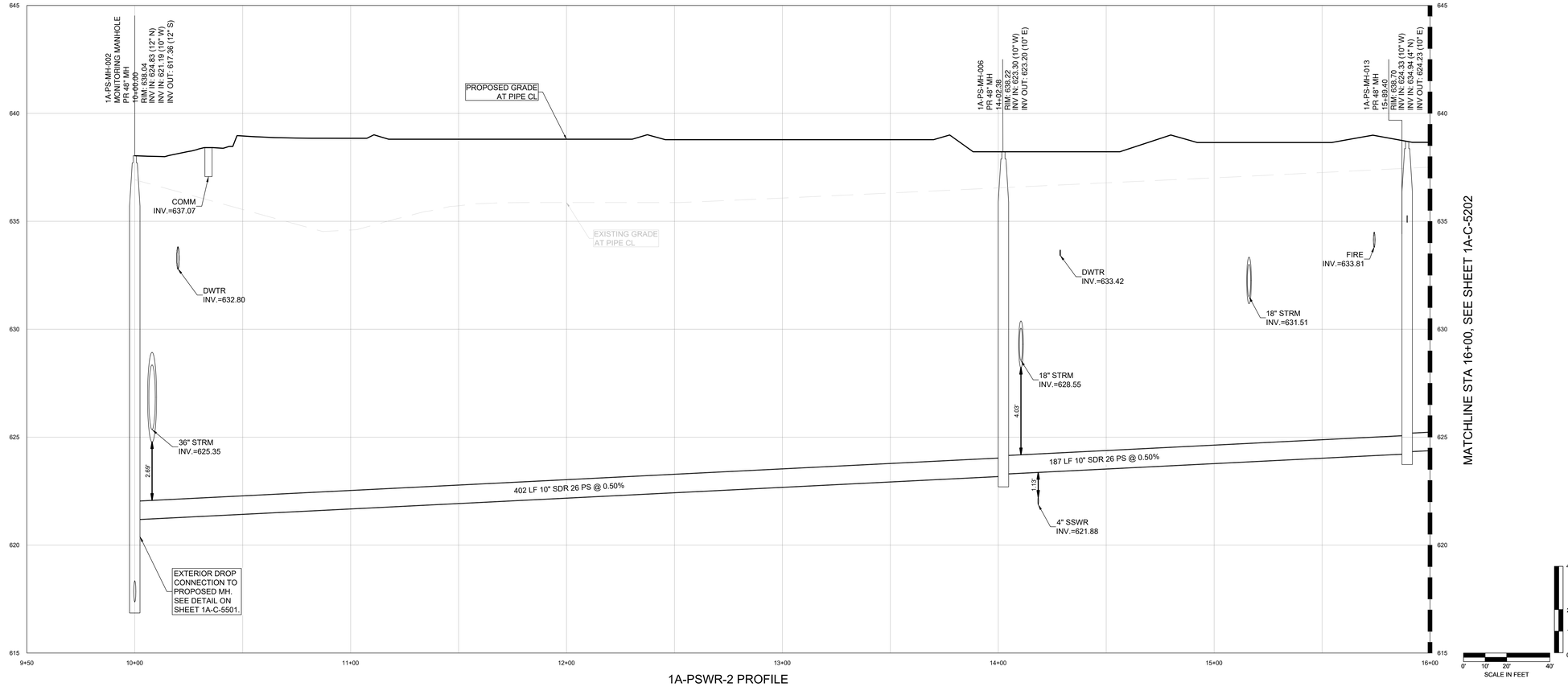

1A-PSWR-2 PROFILE

MATCHLINE STA 16+00, SEE SHEET 1A-C-5202

SCALE IN FEET
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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

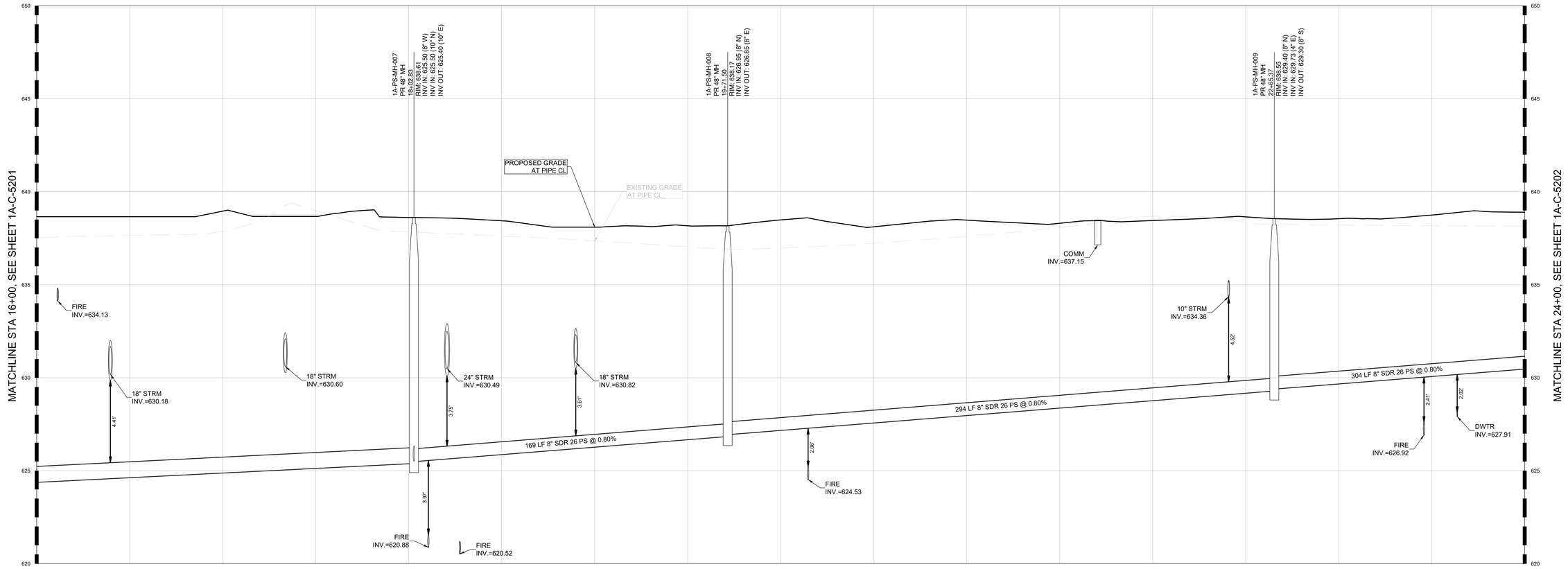
PROJ. NO.:10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5201

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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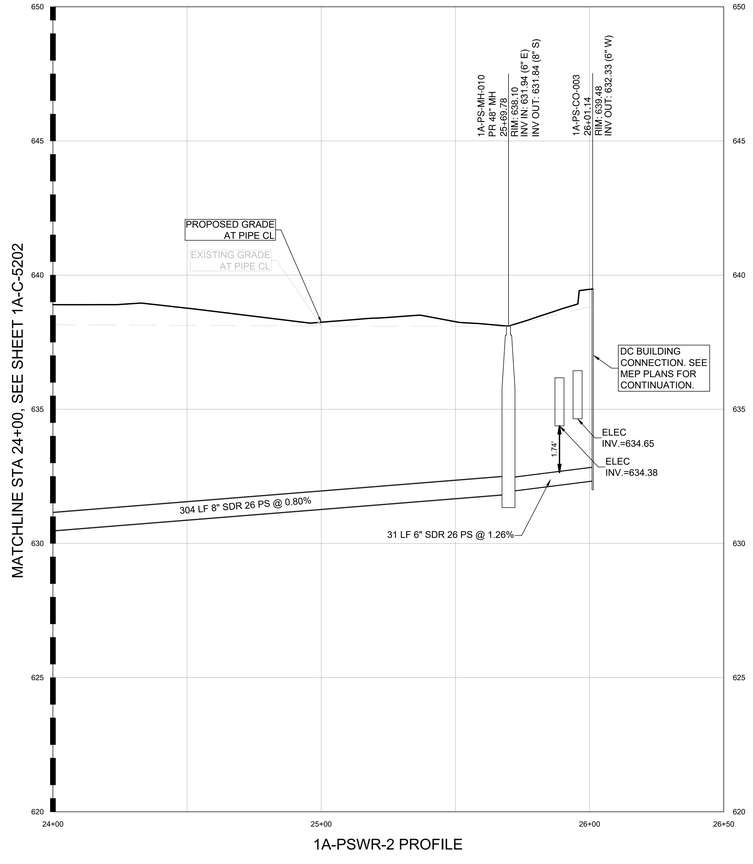

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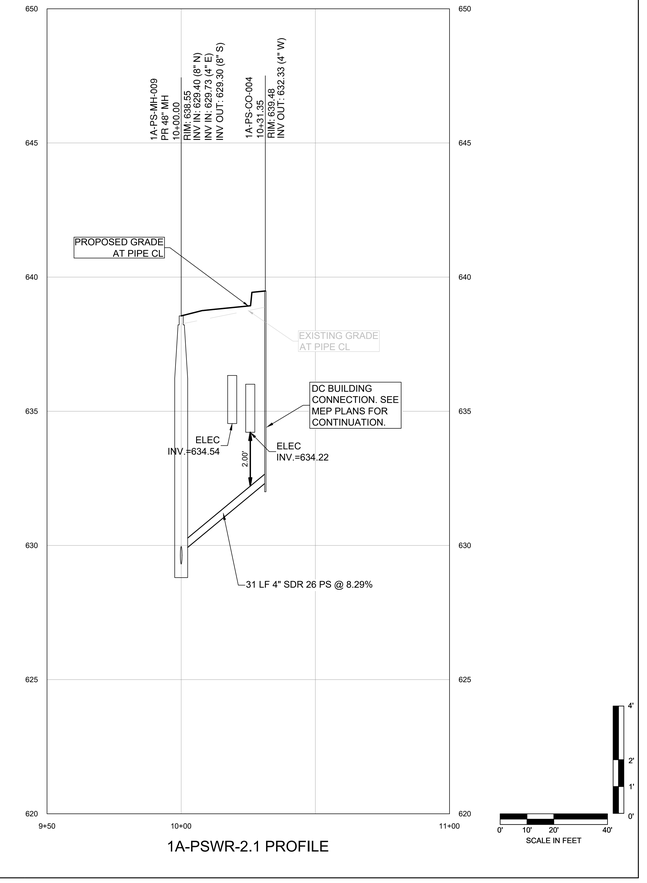

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PROJECT ADDRESS:
TULSA COUNTY, OK

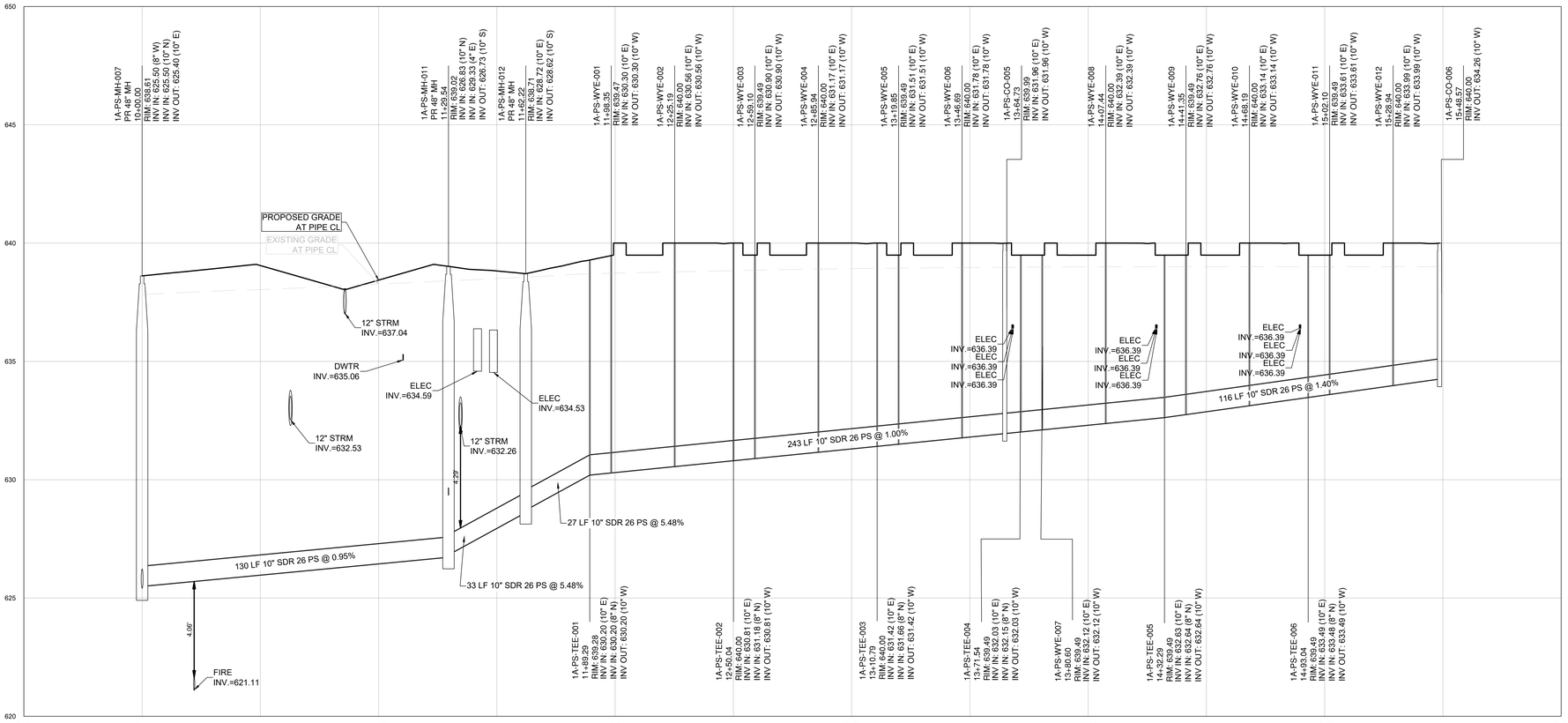
PROJ. NO.:10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5202

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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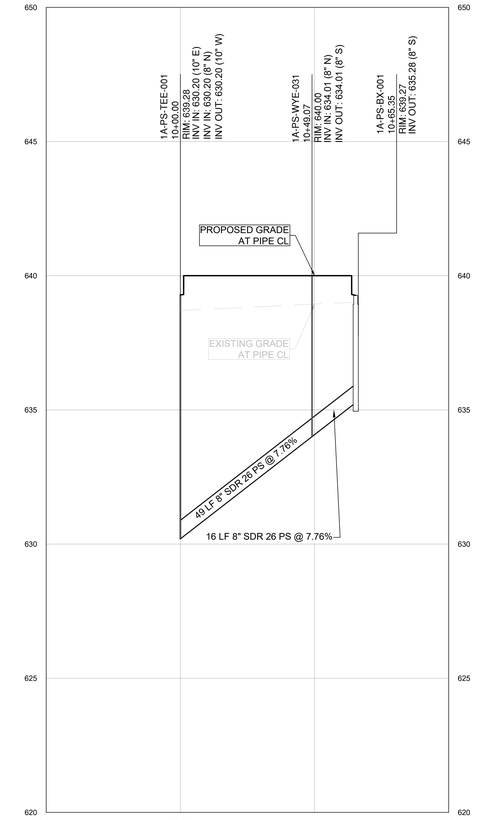

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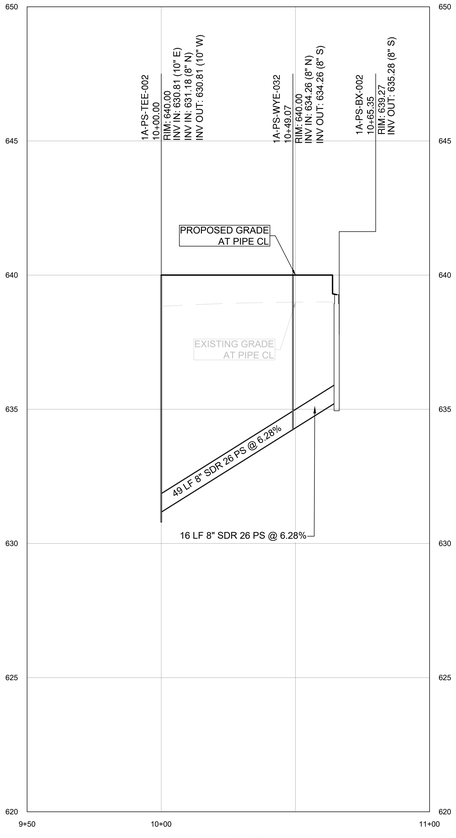

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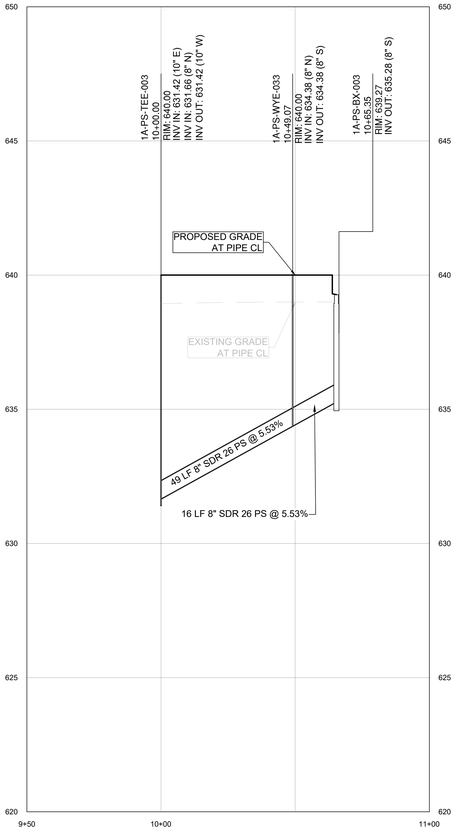

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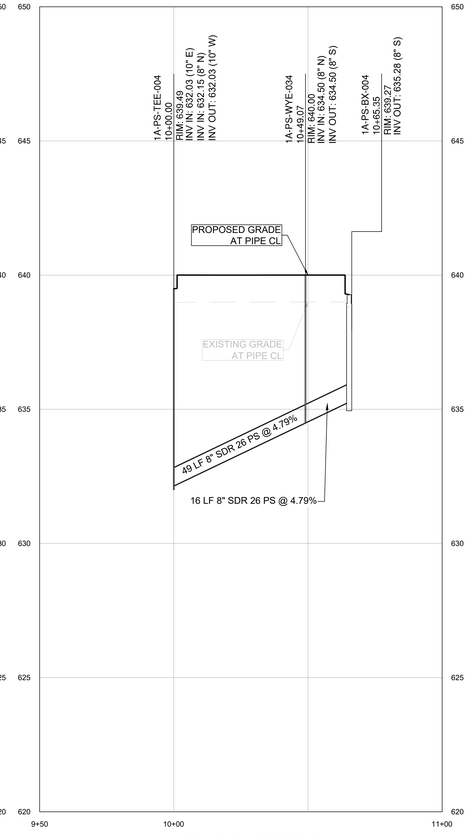

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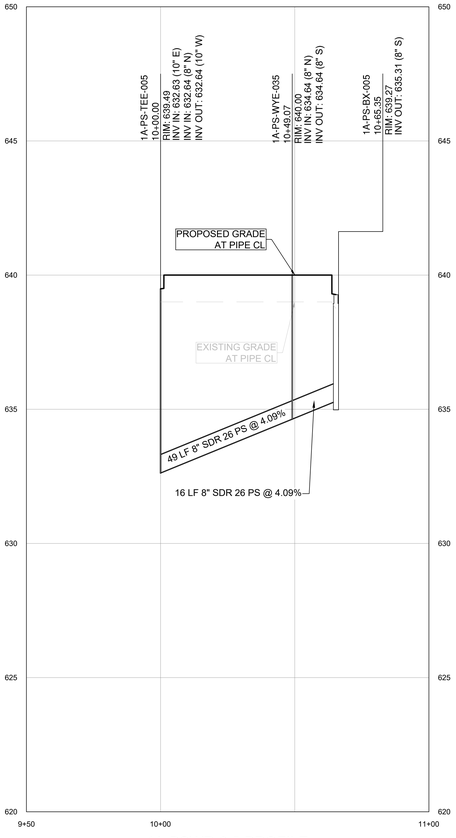
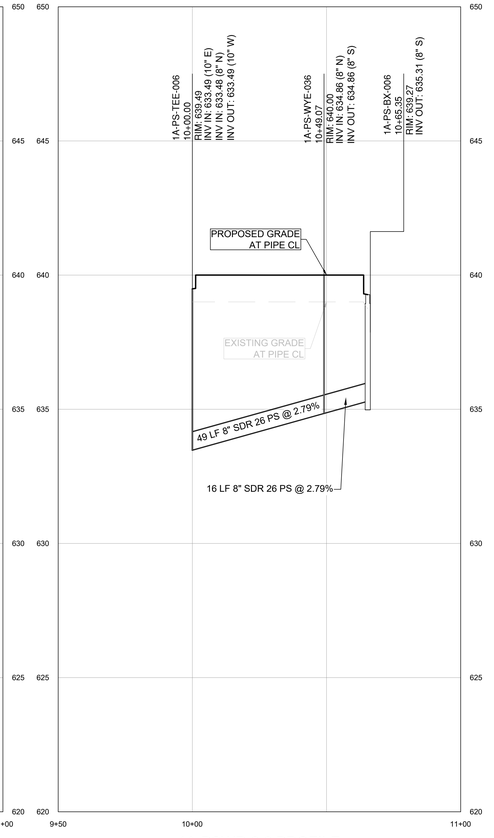


1A-PSWR-3.5 PROFILE



1A-PSWR-3.6 PROFILE

SCALE IN FEET

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HDR, INC.
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

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1A-C-5203

PAPER SIZE: E (36"x48")
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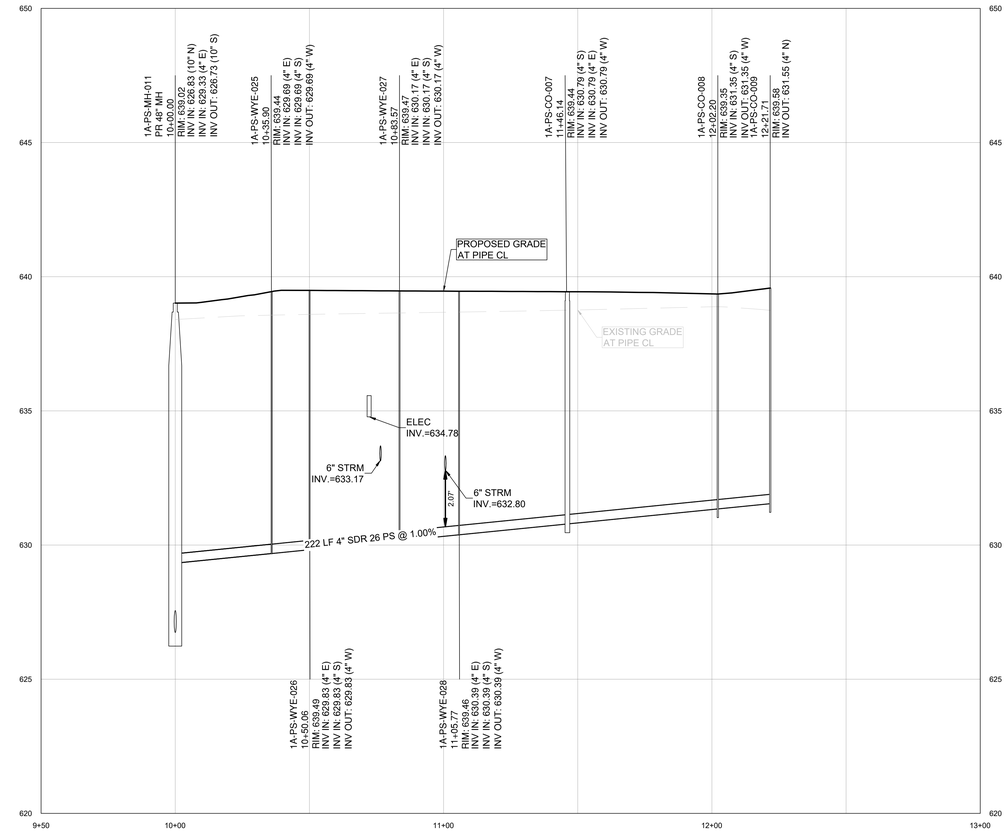

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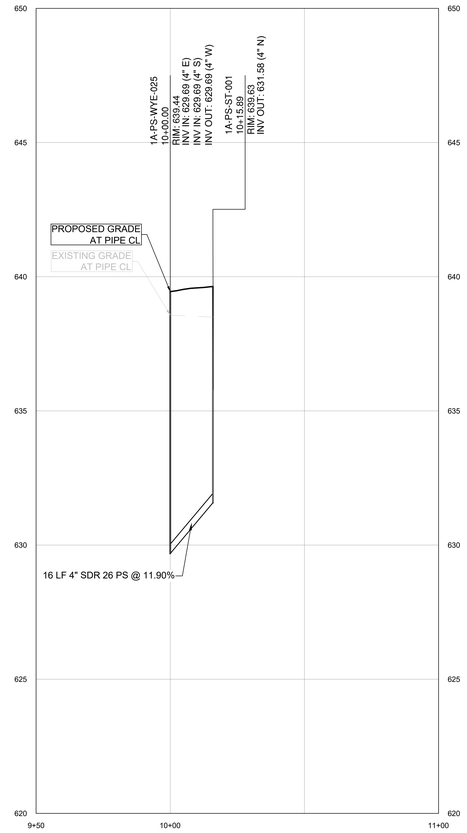

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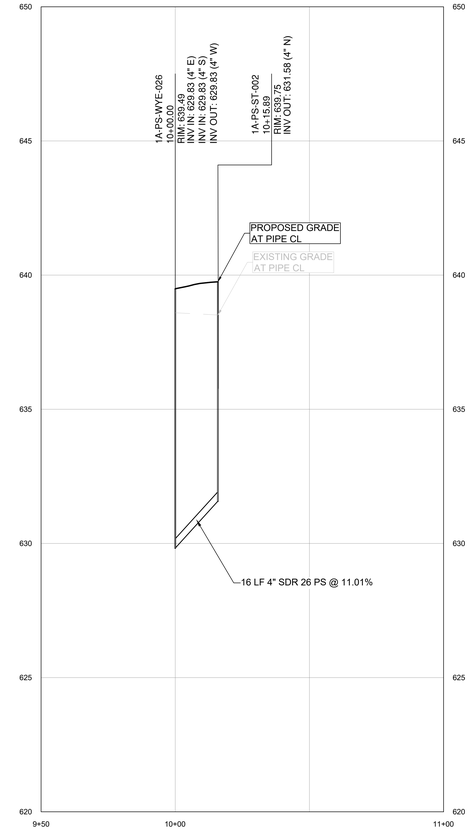

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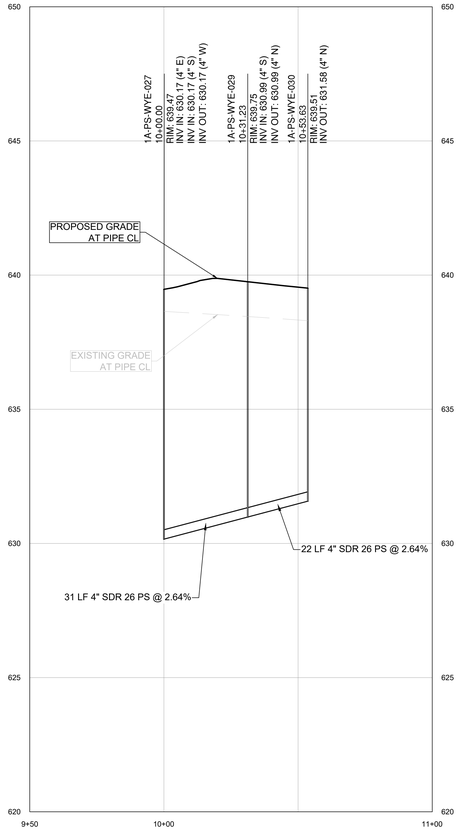

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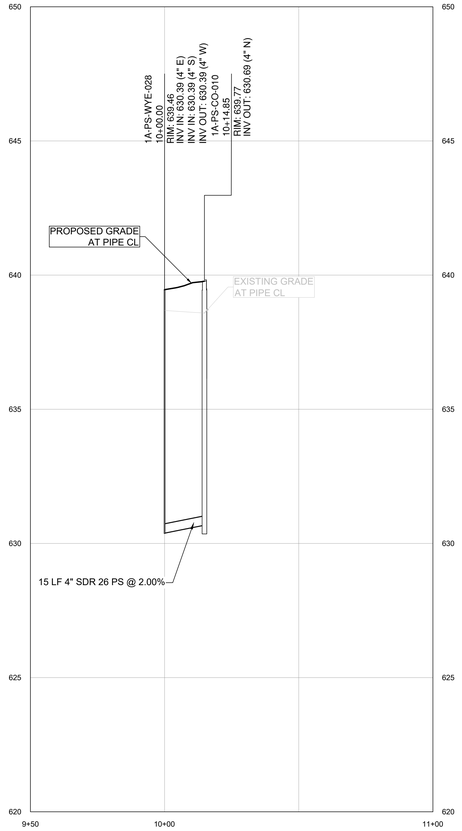

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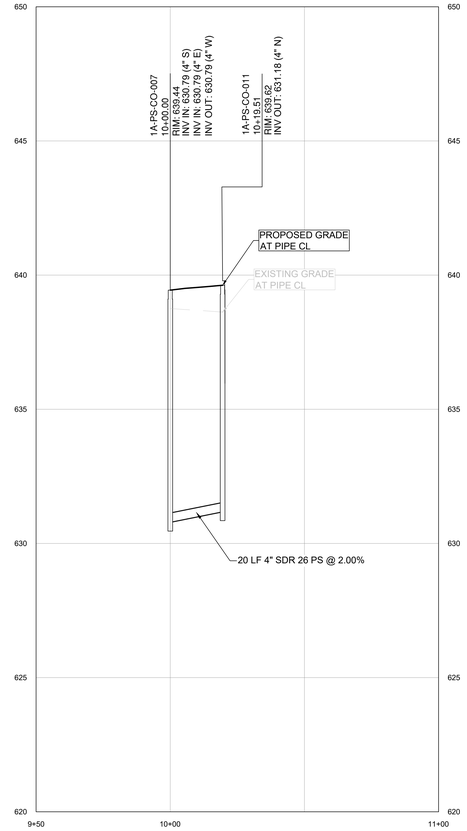

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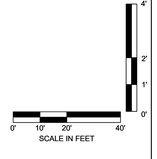

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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5204

PAPER SIZE: E (36"x48")
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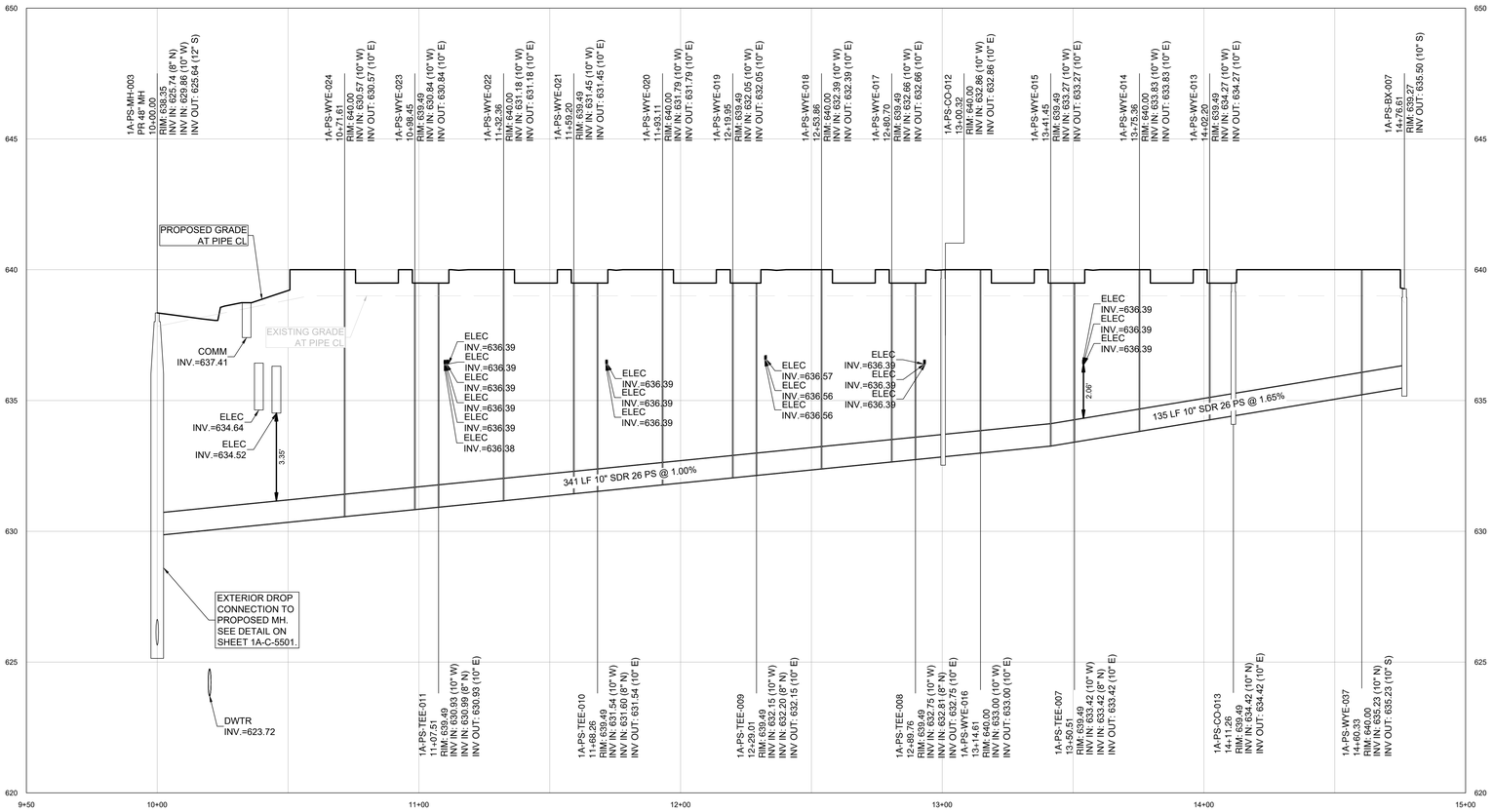

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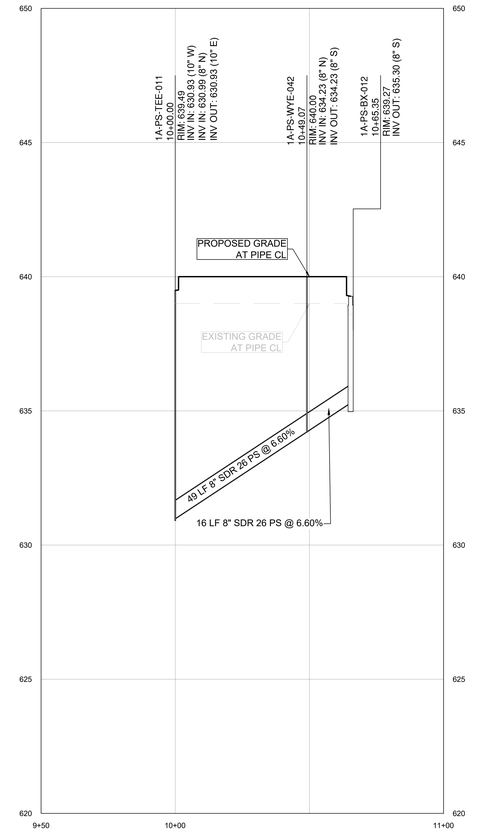

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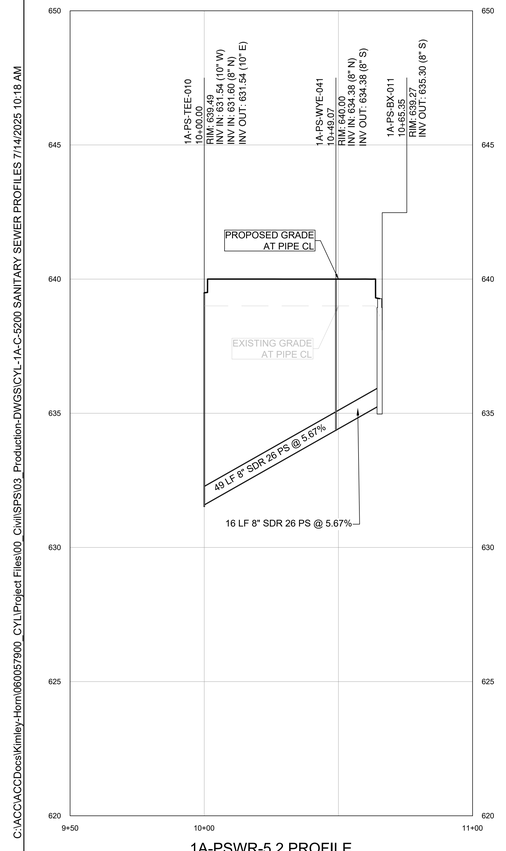

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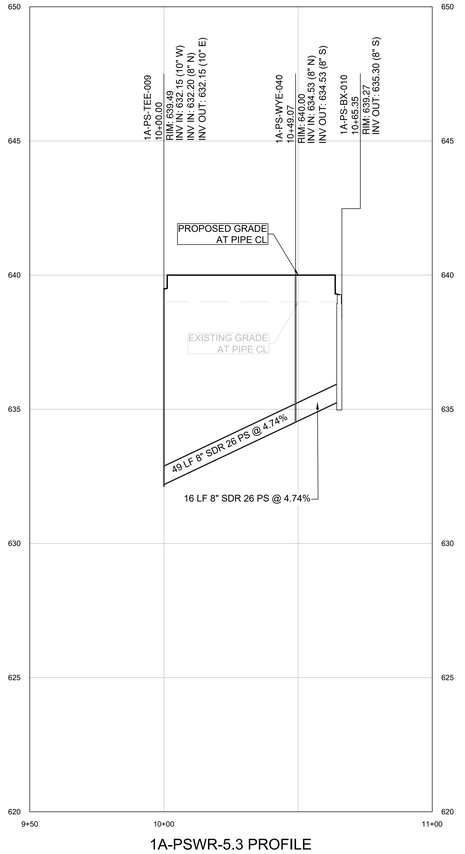

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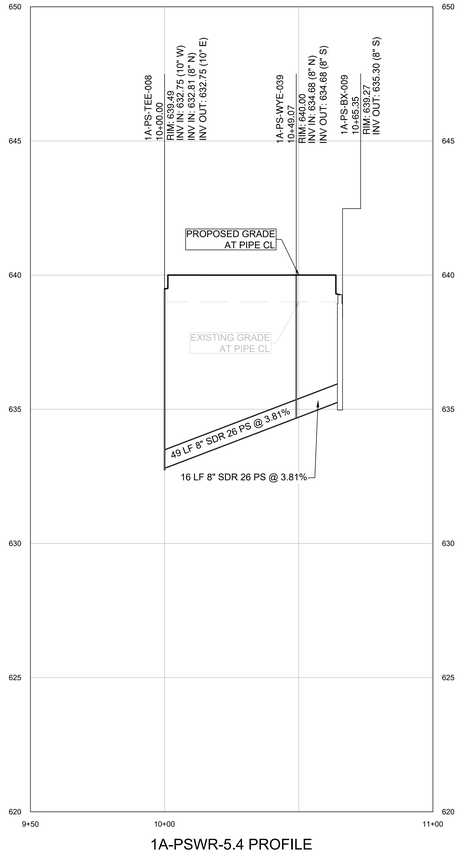

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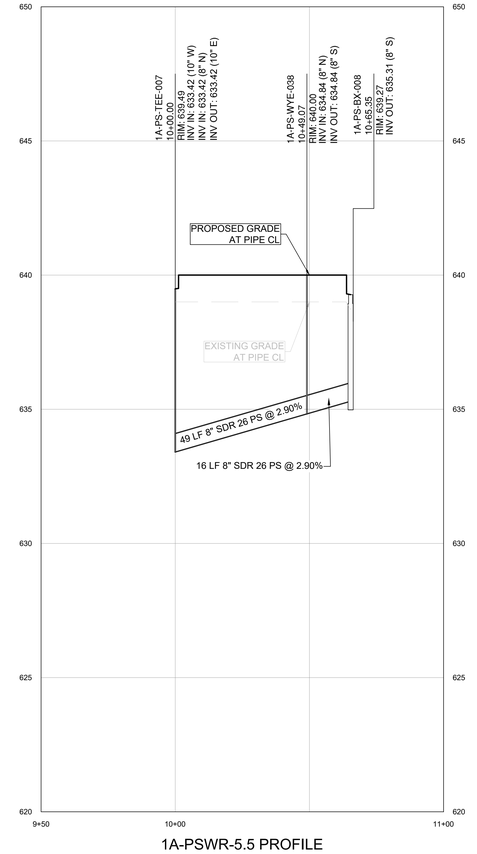

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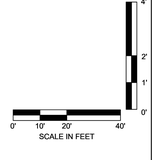

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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN R. RANDALL
OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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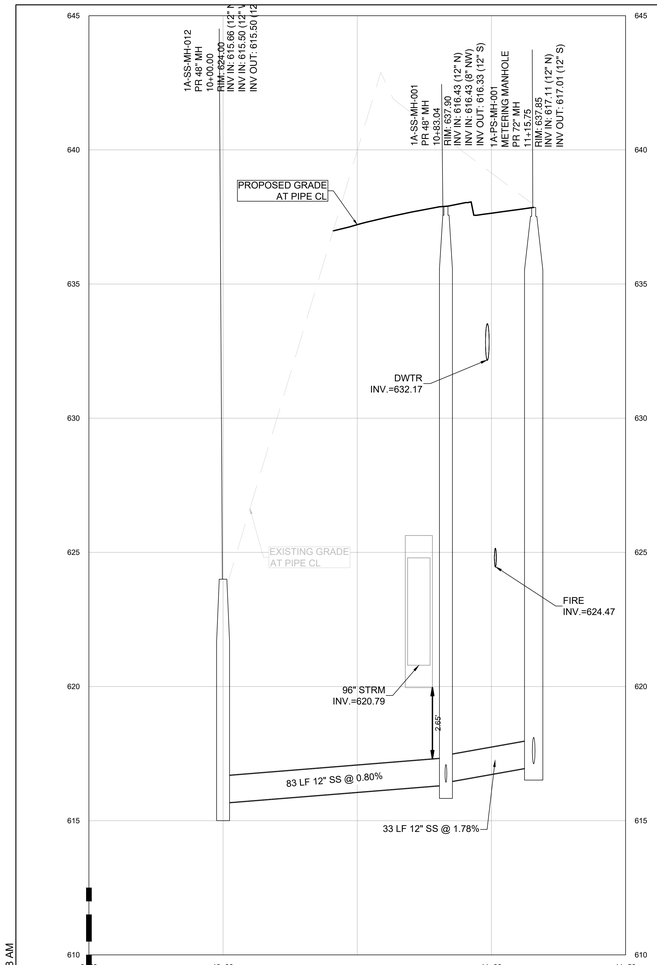

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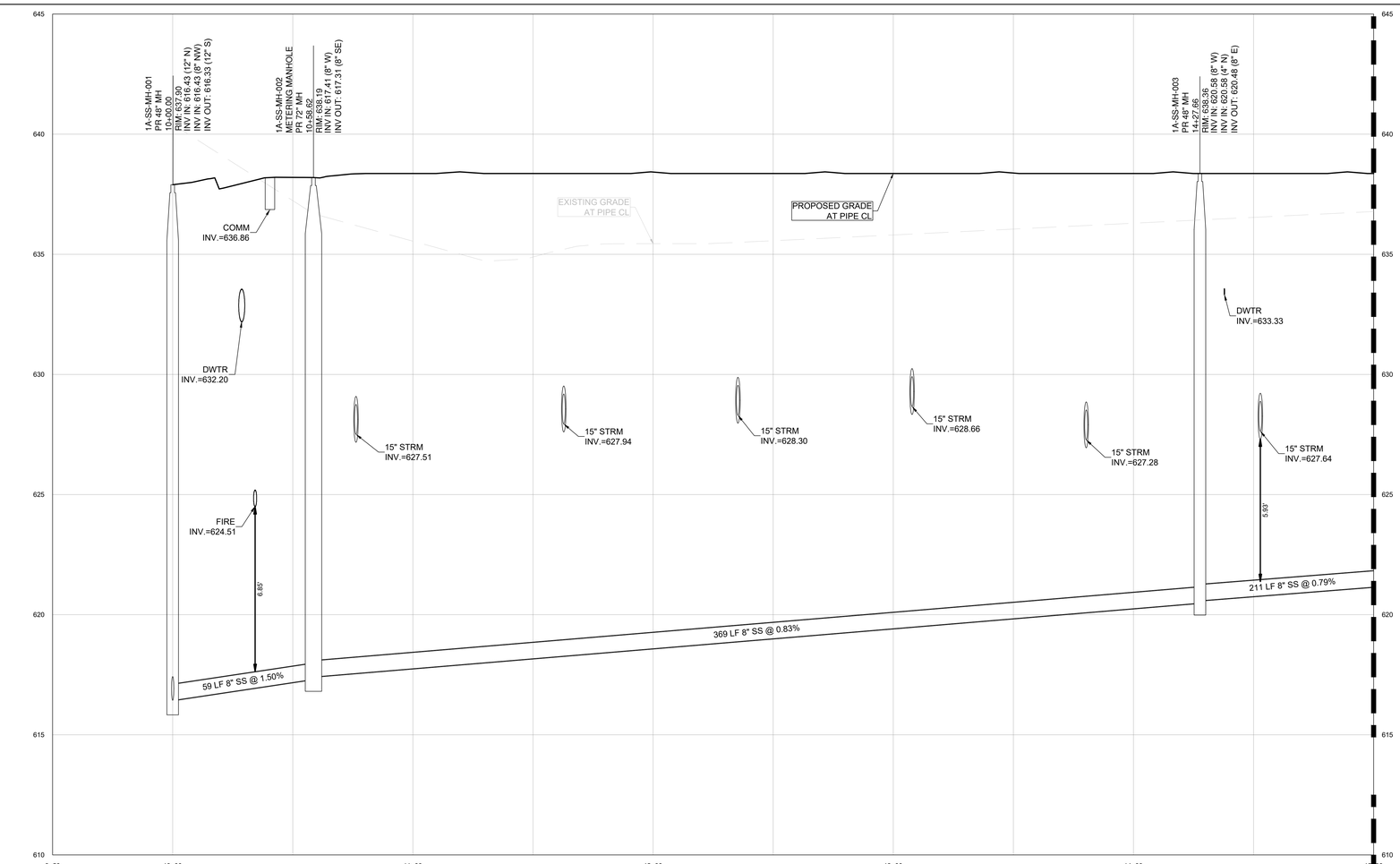

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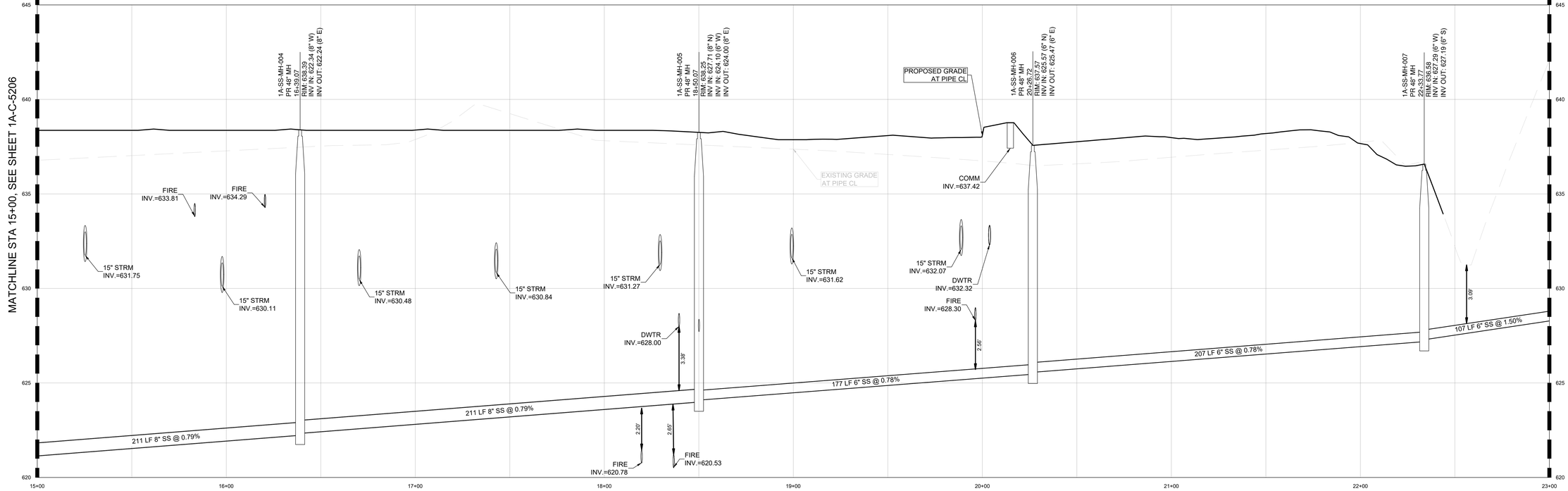

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MATCHLINE STA 15+00, SEE SHEET 1A-C-5206

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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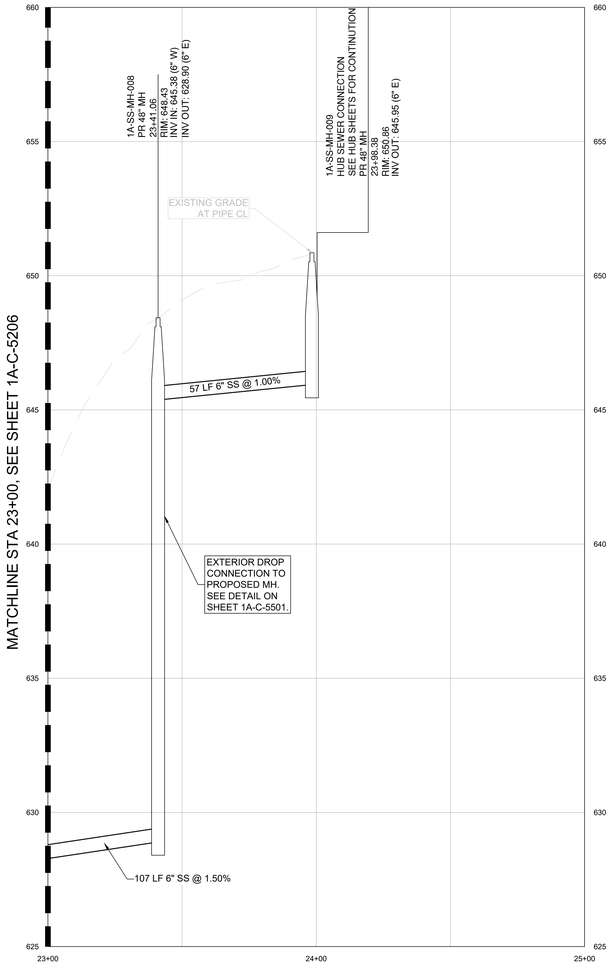

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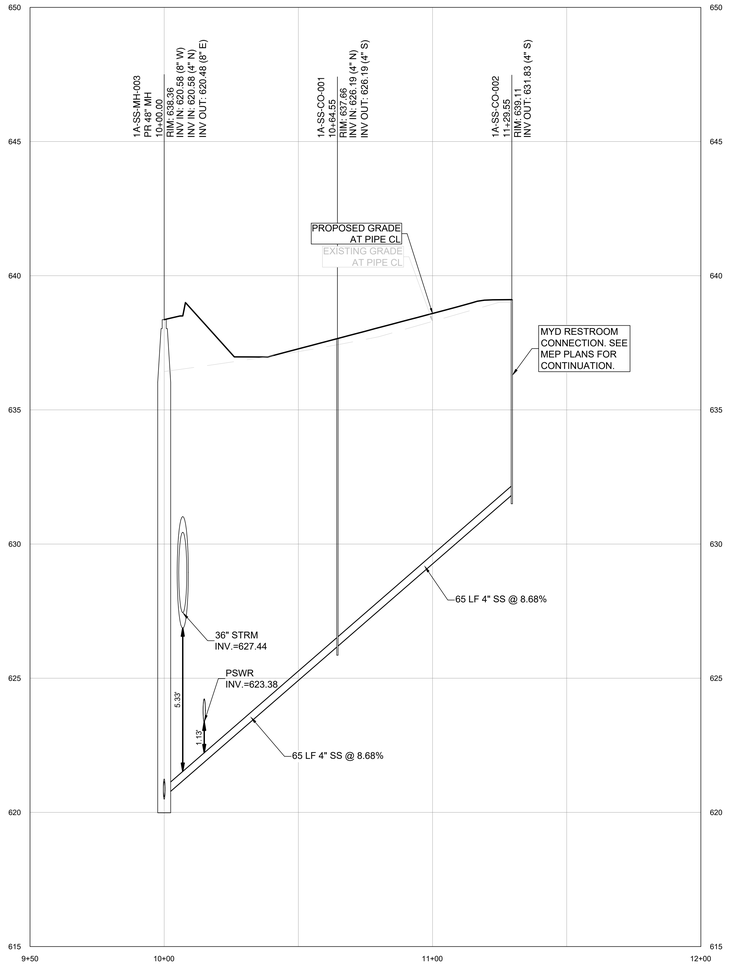

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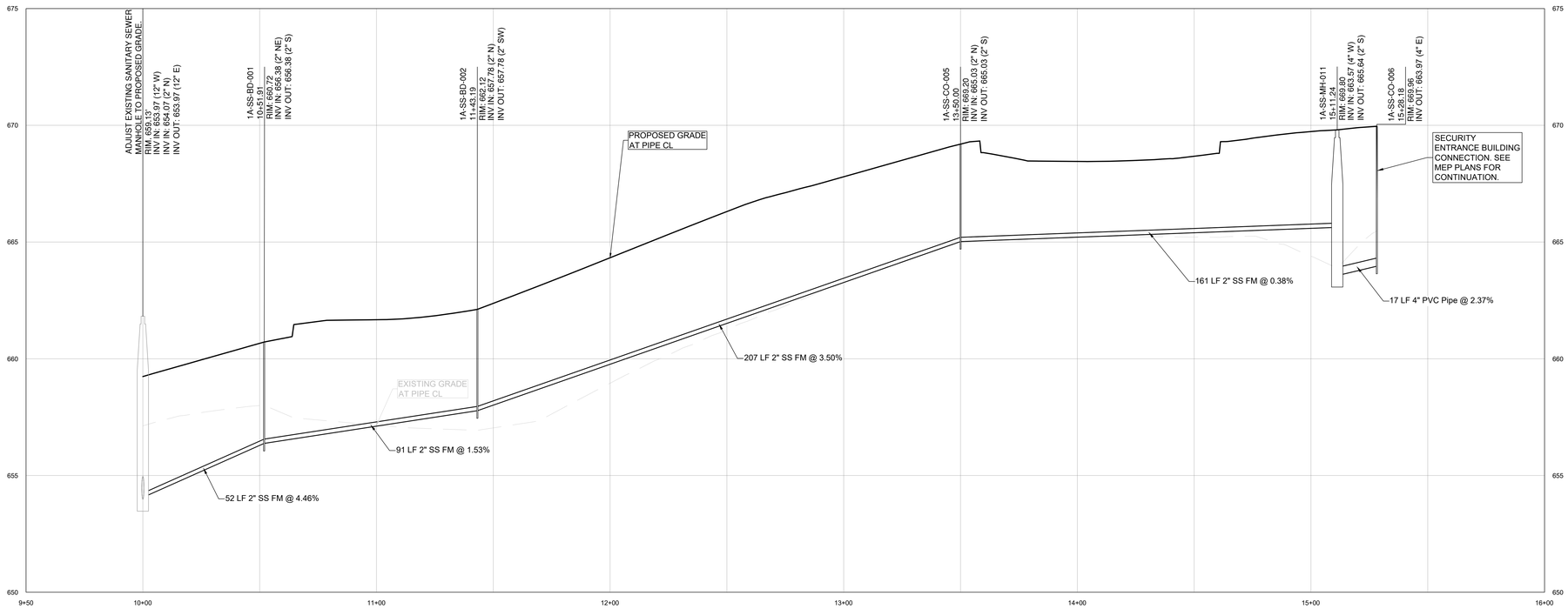

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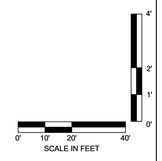

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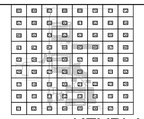

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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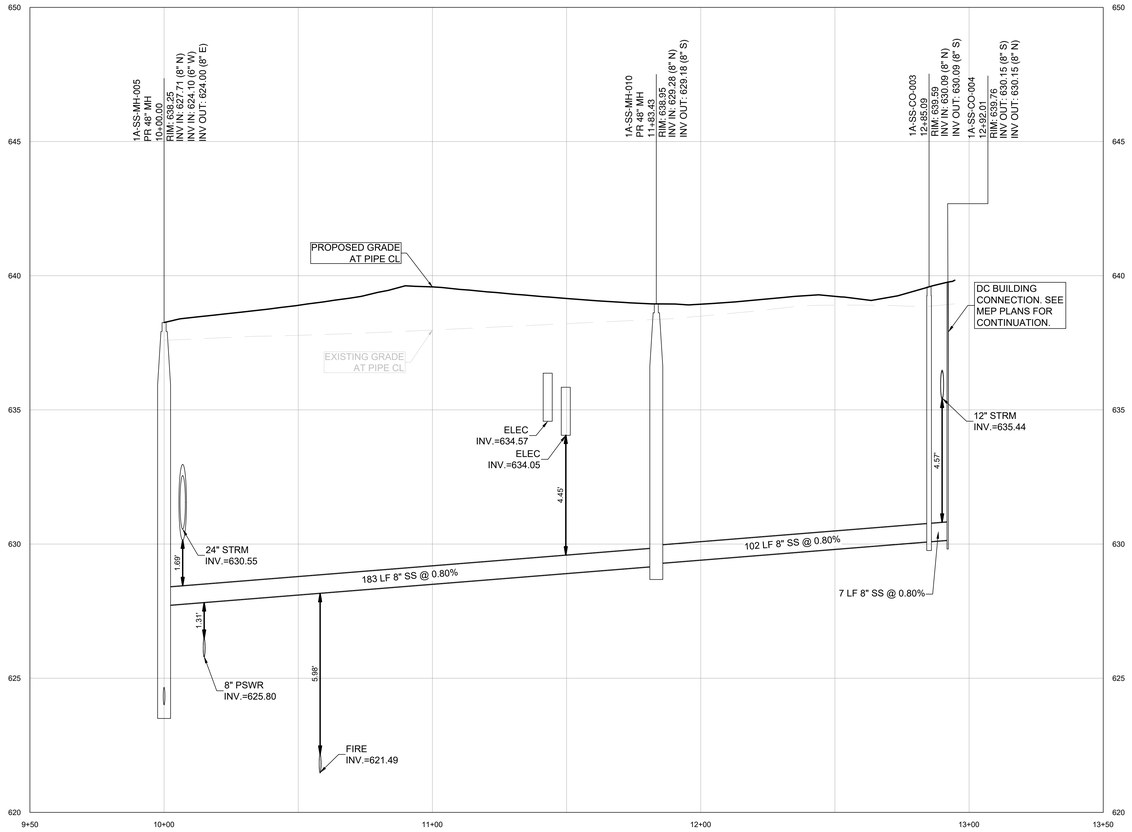

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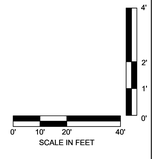

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5208

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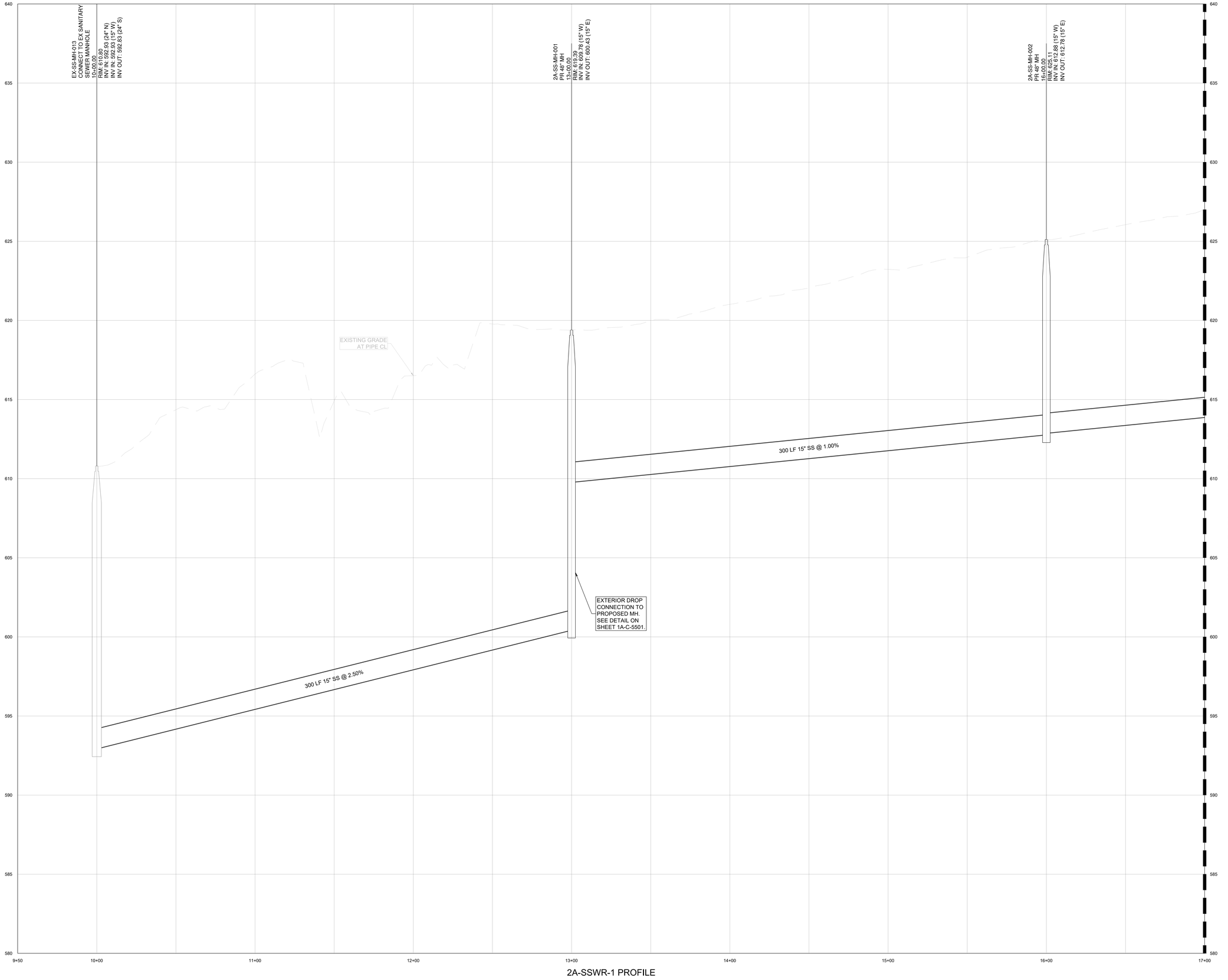

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04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5209

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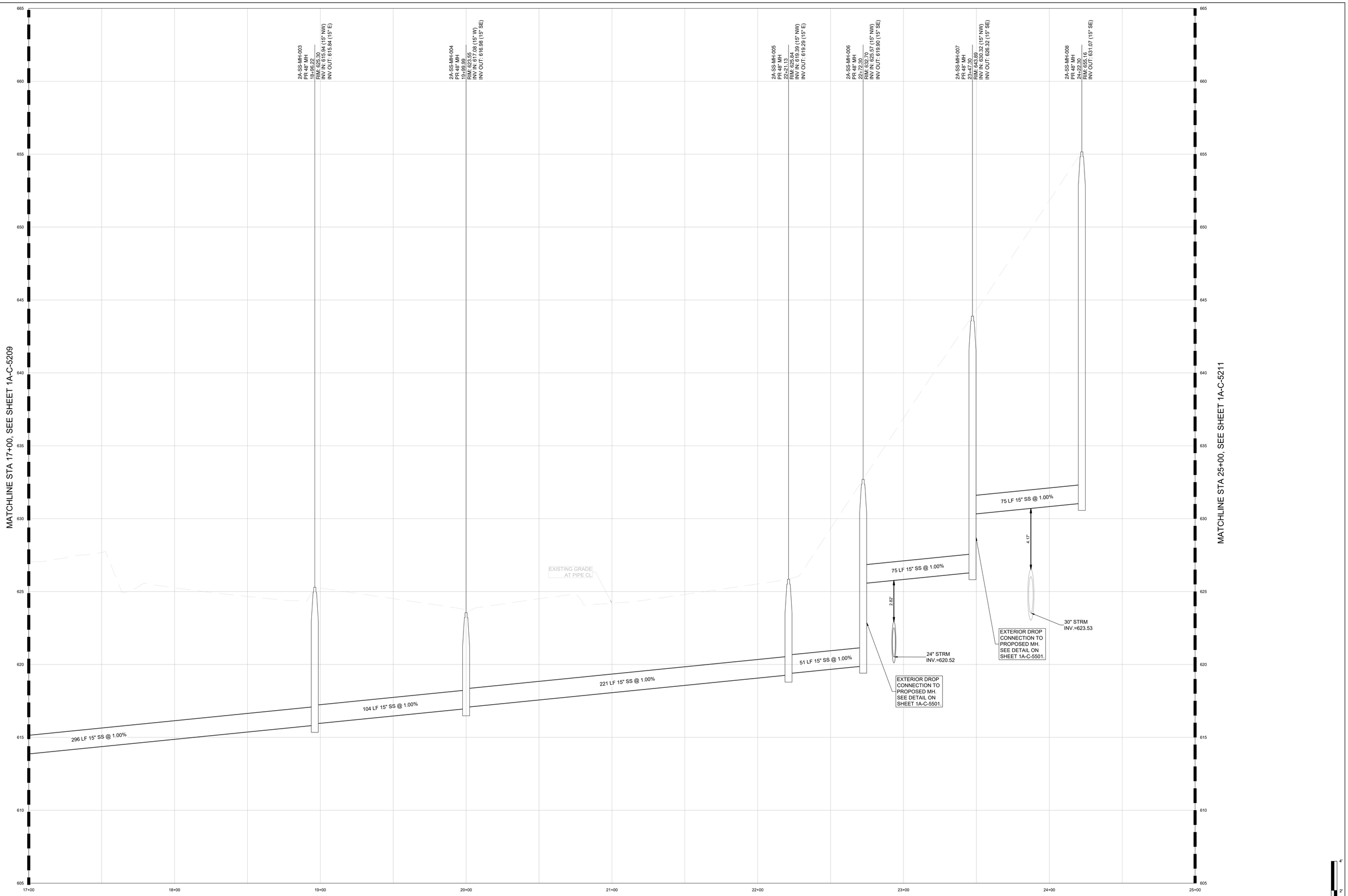

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OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SANITARY SEWER PROFILES

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SHEET NUMBER:
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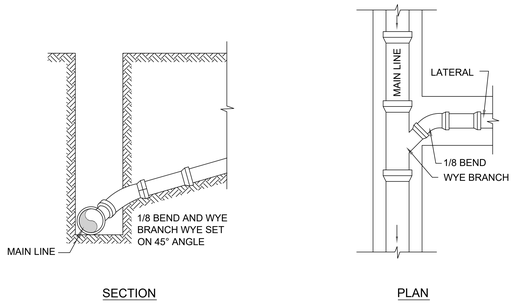
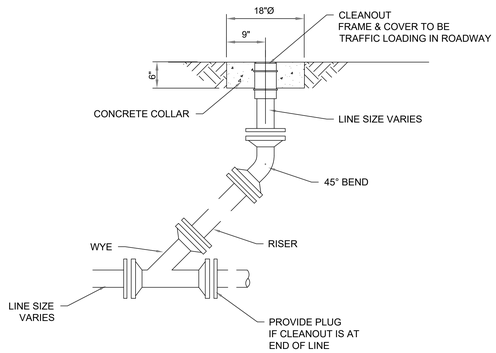


NOTE:
1. TIE-IN STRUCTURES MAY VARY FROM DETAIL ABOVE; SEE PLANS FOR STRUCTURE TYPES.

1 - LATERAL CONNECTION
NTS



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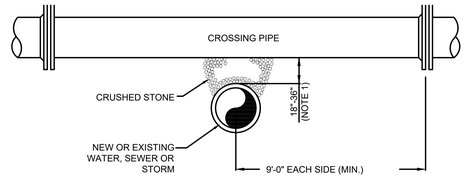
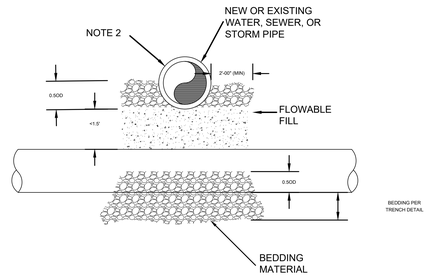
NTS



NOTES:

1. WHEN DISTANCE OF 18" OR MORE IS NOT POSSIBLE, USE MIN. CLEARANCE PIPE CROSSING DETAIL.
2. WHEN WATER LINE IS NEW, PROVIDE A FULL JOINT OF PIPE FOR BOTH LINES CENTERED AT CROSSING.
3. LOCATE SEWER BELOW WATER LINE.

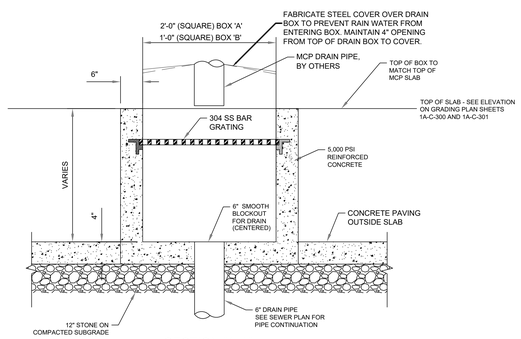
3 - UTILITY CROSSING
NTS



NOTES:

1. DETAIL IS SIMILAR FOR ALL PIPE CROSSINGS WHERE CLEARANCE BETWEEN PIPES IS LESS THAN 1'-6".
2. PROVIDE DOUBLE POLYETHYLENE WRAP AROUND ALL DUCTILE IRON PIPE. WRAP TO EXTEND 5'-0" PAST EACH SIDE OF THE FLOWABLE FILL.

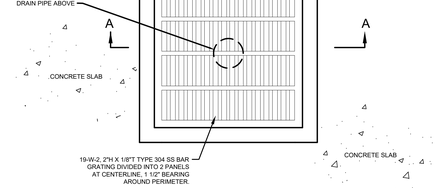
6 - MIN. CLEARANCE PIPE CROSSING
NTS

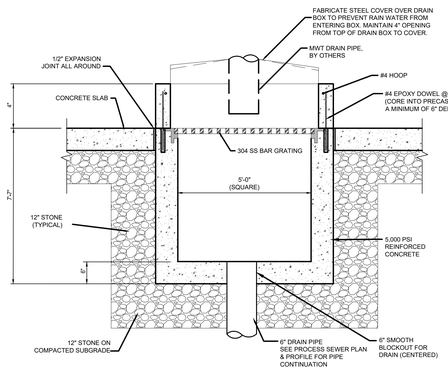


NOTES

1. CONTRACTOR TO PROVIDE A PE STAMPED DESIGN FOR THE PRE-CAST CONCRETE BOX.
2. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED BY THE PROCURING AND INSTALLING CONTRACTOR.
3. REFER TO PLAN FOR LOCATIONS OF PROCESS SEWER DRAIN BOX "A" OR "B"

4 - PROCESS SEWER DRAIN BOX DETAIL
NTS

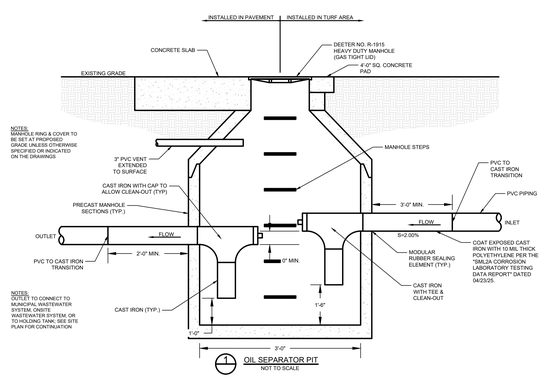




NOTES

1. CONTRACTOR TO PROVIDE A PE STAMPED DESIGN FOR THE PRE-CAST CONCRETE BOX.
2. DIMENSIONS SHOWN ARE FOR REFERENCE ONLY AND SHALL BE COORDINATED BY THE PROCURING AND INSTALLING CONTRACTOR.

5 - MWT DRAIN BOX DETAIL
NTS



7 - OIL SEPARATOR PIT
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

SANITARY SEWER DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5500
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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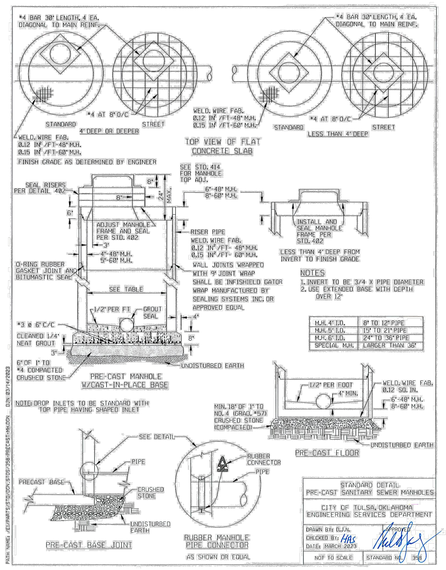
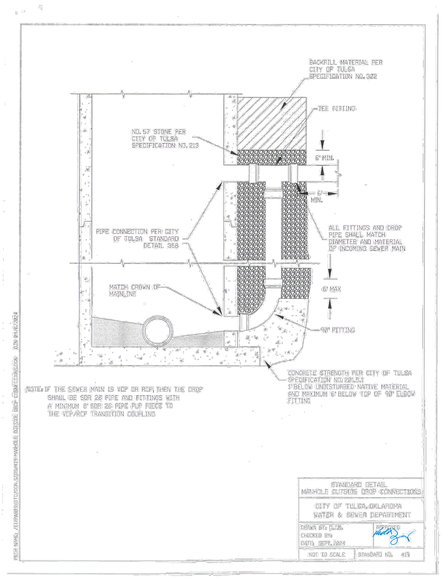
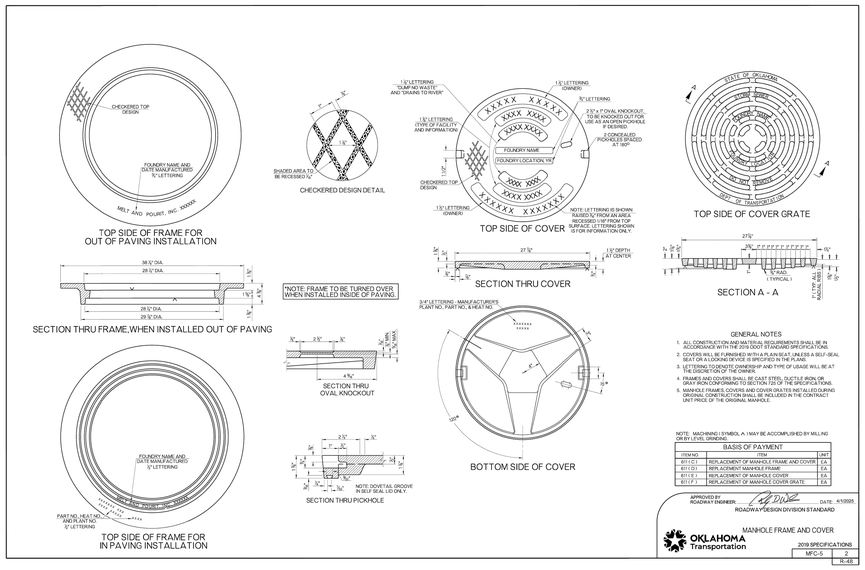






GENERAL NOTES

1. ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE LATEST OKLAHOMA DOT STANDARDS.
2. COVERS WILL BE FURNISHED WITH A FLANGE LIP, UNLESS A SELF SEAL SEAT OR A LOCKING DEVICE IS SPECIFIED IN THE PLANS.
3. LETTERING TO DENOTE OWNERSHIP AND TYPE OF USAGE WILL BE AT THE DISCRETION OF THE OWNER.
4. FRAMES AND COVERS SHALL BE CAST STEEL, DUCTILE IRON, OR GRAY IRON AS SPECIFIED IN SECTION 725 OF THE SPECIFICATIONS.
5. MANHOLE FRAMES, COVERS AND COVER GRATES INSTALLED DURING ORIGINAL CONSTRUCTION SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE OF THE ORIGINAL MANHOLE.

NOTE: MACHINING / SYMBOL A / MAY BE ACCOMPLISHED BY MILLING OR BY LEVEL GRINDING.

BASIS OF PAYMENT

ITEM NO	ITEM	UNIT
611 (C) 1	REPLACEMENT OF MANHOLE FRAME AND COVER	EA
611 (D) 1	REPLACEMENT MANHOLE FRAME	EA
611 (E) 1	REPLACEMENT OF MANHOLE COVER	EA
611 (F) 1	REPLACEMENT OF MANHOLE COVER GRATE	EA

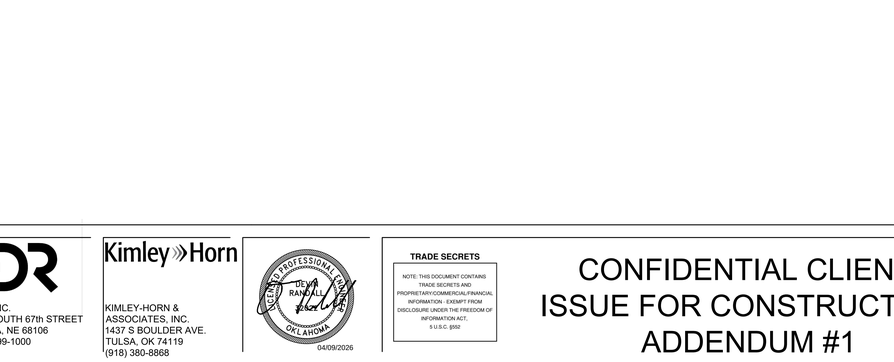
APPROVED BY ROADWAY ENGINEER: _____ DATE: 4/1/2025
ROADWAY DESIGN DIVISION STANDARD

MANHOLE FRAME AND COVER

OKLAHOMA Transportation

2019 SPECIFICATIONS

MFC-5	2
	R-48



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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

04/09/2026

TRADE SECRETS
NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

SANITARY SEWER DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-5501
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-PS-BX-001	1A-PSWR-3.1 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.278	N: 467247.9763 E: 2584500.3753
1A-PS-BX-002	1A-PSWR-3.2 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.278	N: 467249.2299 E: 2584561.1123
1A-PS-BX-003	1A-PSWR-3.3 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.278	N: 467250.4835 E: 2584621.8494
1A-PS-BX-004	1A-PSWR-3.4 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.278	N: 467251.7372 E: 2584682.5865
1A-PS-BX-005	1A-PSWR-3.5 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.310	N: 467252.9908 E: 2584743.3235
1A-PS-BX-006	1A-PSWR-3.6 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.310	N: 467254.2444 E: 2584804.0606
1A-PS-BX-007	1A-PSWR-5 STA: 14+76.61 OFFSET: 0.00	639.27	10" INV OUT (S) = 635.500	N: 467255.4980 E: 2584864.7976
1A-PS-BX-008	1A-PSWR-5.5 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.310	N: 467256.7517 E: 2584925.5347
1A-PS-BX-009	1A-PSWR-5.4 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.302	N: 467258.0053 E: 2584986.2718
1A-PS-BX-010	1A-PSWR-5.3 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.302	N: 467259.2589 E: 2585047.0088
1A-PS-BX-011	1A-PSWR-5.2 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.302	N: 467260.5125 E: 2585107.7459
1A-PS-BX-012	1A-PSWR-5.1 STA: 10+65.35 OFFSET: 0.00	639.27	8" INV OUT (S) = 635.302	N: 467261.7662 E: 2585168.4830
1A-PS-CO-001	1A-PSWR-1 STA: 16+32.52 OFFSET: 0.00	639.43	4" INV OUT (SE) = 631.156	N: 467633.7248 E: 2585219.0345
1A-PS-CO-002	1A-PSWR-1.1 STA: 10+49.80 OFFSET: 0.00	639.43	4" INV OUT (E) = 628.347	N: 467329.2222 E: 2585224.8149
1A-PS-CO-003	1A-PSWR-2 STA: 26+01.14 OFFSET: 0.00	639.48	6" INV OUT (W) = 632.333	N: 467615.2164 E: 2584328.3864
1A-PS-CO-004	1A-PSWR-2.1 STA: 10+31.35 OFFSET: 0.00	639.48	4" INV OUT (W) = 632.333	N: 467310.8769 E: 2584334.6551
1A-PS-CO-005	1A-PSWR-3 STA: 13+64.73 OFFSET: 0.00	639.99	10" INV IN (E) = 631.96 10" INV OUT (W) = 631.859	N: 467186.2585 E: 2584677.1286
1A-PS-CO-006	1A-PSWR-3 STA: 15+48.57 OFFSET: 0.00	640.00	10" INV OUT (W) = 634.263	N: 467190.0523 E: 2584860.9347
1A-PS-CO-007	1A-PSWR-4 STA: 11+46.14 OFFSET: 0.00 R	639.44	4" INV IN (S) = 630.79 4" INV IN (E) = 630.79 4" INV OUT (W) = 630.793	N: 467152.4226 E: 2584621.4432
1A-PS-CO-008	1A-PSWR-4 STA: 12+02.20 OFFSET: 0.00	639.35	4" INV IN (S) = 631.35 4" INV OUT (W) = 631.354	N: 467153.5798 E: 2584677.4894
1A-PS-CO-009	1A-PSWR-4 STA: 12+21.71 OFFSET: 0.00	639.58	4" INV OUT (N) = 631.549	N: 467135.4449 E: 2584684.6901
1A-PS-CO-010	1A-PSWR-4.4 STA: 10+14.85 OFFSET: 0.00	639.77	4" INV OUT (N) = 630.687	N: 467136.7405 E: 2584581.3846
1A-PS-CO-011	1A-PSWR-4.5 STA: 10+19.51 OFFSET: 0.00	639.62	4" INV OUT (N) = 631.183	N: 467134.2881 E: 2584628.6437
1A-PS-CO-012	1A-PSWR-5 STA: 13+00.32 OFFSET: 0.00	640.00	10" INV IN (W) = 632.86 10" INV OUT (E) = 632.859	N: 467192.4492 E: 2584977.0646
1A-PS-CO-013	1A-PSWR-5 STA: 14+11.26 OFFSET: 0.00	639.49	10" INV IN (N) = 634.42 10" INV OUT (E) = 634.422	N: 467190.1599 E: 2584866.1462
1A-PS-MH-001	1A-PSWR-1 STA: 10+00.00 OFFSET: 0.00	637.85	12" INV IN (N) = 617.11 12" INV OUT (S) = 617.012	N: 467022.7715 E: 2585280.9511
1A-PS-MH-002	1A-PSWR-1 STA: 10+13.70 OFFSET: 0.00 L	638.04	12" INV IN (N) = 624.83 10" INV IN (W) = 621.19 12" INV OUT (S) = 617.356	N: 467036.4637 E: 2585280.6685
1A-PS-MH-003	1A-PSWR-1 STA: 11+75.91 OFFSET: 0.00 L	638.35	8" INV IN (N) = 625.74 10" INV IN (W) = 629.86 12" INV OUT (S) = 625.641	N: 467198.6466 E: 2585277.3210
1A-PS-MH-004	1A-PSWR-1 STA: 13+07.57 OFFSET: 0.00	638.66	8" INV IN (N) = 626.89 4" INV IN (W) = 627.23 8" INV OUT (S) = 626.795	N: 467330.2804 E: 2585274.6041
1A-PS-MH-005	1A-PSWR-1 STA: 15+62.80 OFFSET: 0.00	638.44	4" INV IN (NW) = 629.55 8" INV OUT (S) = 629.447	N: 467585.4567 E: 2585269.3372
1A-PS-MH-006	1A-PSWR-2 STA: 14+02.38 OFFSET: 0.00	638.22	10" INV IN (W) = 623.30 10" INV OUT (E) = 623.198	N: 467028.1602 E: 2584878.3693
1A-PS-MH-007	1A-PSWR-2 STA: 18+02.83 OFFSET: 0.00	638.61	8" INV IN (W) = 625.50 10" INV IN (N) = 625.50 10" INV OUT (E) = 625.400	N: 467019.8966 E: 2584478.0080
1A-PS-MH-008	1A-PSWR-2 STA: 19+71.50 OFFSET: 0.00	638.17	8" INV IN (N) = 626.95 8" INV OUT (E) = 626.850	N: 467016.4160 E: 2584309.3754
1A-PS-MH-009	1A-PSWR-2 STA: 22+65.37 OFFSET: 0.00	638.55	8" INV IN (N) = 629.40 4" INV IN (E) = 629.73 8" INV OUT (S) = 629.301	N: 467310.2224 E: 2584303.3112
1A-PS-MH-010	1A-PSWR-2 STA: 25+69.78 OFFSET: 0.00	638.10	6" INV IN (E) = 631.94 8" INV OUT (S) = 631.836	N: 467614.5691 E: 2584297.0294
1A-PS-MH-011	1A-PSWR-3 STA: 11+29.54 OFFSET: 0.00	639.02	10" INV IN (N) = 626.83 4" INV IN (E) = 629.33 10" INV OUT (S) = 626.732	N: 467149.4074 E: 2584475.3348
1A-PS-MH-012	1A-PSWR-3 STA: 11+62.22 OFFSET: 0.00	638.71	10" INV IN (E) = 628.72 10" INV OUT (S) = 628.622	N: 467182.0795 E: 2584474.6605
1A-PS-MH-013	1A-PSWR-5.5 STA: ??? OFFSET: ??? ???	638.70	10" INV IN (W) = 624.33 4" INV IN (N) = 634.94 10" INV OUT (E) = 624.233	N: 467024.3010 E: 2584691.3976
1A-PS-ST-001	1A-PSWR-4.1 STA: 10+15.89 OFFSET: 0.00	639.63	4" INV OUT (N) = 631.583	N: 467134.2575 E: 2584511.5600
1A-PS-ST-002	1A-PSWR-4.2 STA: 10+15.89 OFFSET: 0.00	639.75	4" INV OUT (N) = 631.583	N: 467134.5490 E: 2584525.7087

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-PS-ST-003	??? STA: ??? OFFSET: ??? ???	638.70	4" INV OUT (S) = 635.000	N: 467027.3004 E: 2584691.3357
1A-PS-TEE-001	1A-PSWR-3 STA: 11+89.29 OFFSET: 0.00	639.28	10" INV IN (E) = 630.20 8" INV IN (N) = 630.20 10" INV OUT (W) = 630.205	N: 467182.6381 E: 2584501.7239
1A-PS-TEE-002	1A-PSWR-3 STA: 12+50.04 OFFSET: 0.00	640.00	10" INV IN (E) = 630.81 8" INV IN (N) = 631.18 10" INV OUT (W) = 630.812	N: 467183.8917 E: 2584562.4609
1A-PS-TEE-003	1A-PSWR-3 STA: 13+10.79 OFFSET: 0.00	640.00	10" INV IN (E) = 631.42 8" INV IN (N) = 631.66 10" INV OUT (W) = 631.420	N: 467185.1454 E: 2584623.1980
1A-PS-TEE-004	1A-PSWR-3 STA: 13+71.54 OFFSET: 0.00	639.49	10" INV IN (E) = 632.03 8" INV IN (N) = 632.15 10" INV OUT (W) = 632.027	N: 467186.3990 E: 2584683.9350
1A-PS-TEE-005	1A-PSWR-3 STA: 14+32.29 OFFSET: 0.00	639.49	10" INV IN (E) = 632.63 8" INV IN (N) = 632.64 10" INV OUT (W) = 632.635	N: 467187.6526 E: 2584744.6721
1A-PS-TEE-006	1A-PSWR-3 STA: 14+93.04 OFFSET: 0.00	639.49	10" INV IN (E) = 633.49 8" INV IN (N) = 633.48 10" INV OUT (W) = 633.485	N: 467188.9062 E: 2584805.4092
1A-PS-TEE-007	1A-PSWR-5 STA: 13+50.51 OFFSET: 0.00	639.49	10" INV IN (W) = 633.42 8" INV IN (N) = 633.42 10" INV OUT (E) = 633.419	N: 467191.4135 E: 2584926.8833
1A-PS-TEE-008	1A-PSWR-5 STA: 12+89.76 OFFSET: 0.00	639.49	10" INV IN (W) = 632.75 8" INV IN (N) = 632.81 10" INV OUT (E) = 632.753	N: 467192.6671 E: 2584987.6204
1A-PS-TEE-009	1A-PSWR-5 STA: 12+29.01 OFFSET: 0.00	639.49	10" INV IN (W) = 632.15 8" INV IN (N) = 632.20 10" INV OUT (E) = 632.146	N: 467193.9207 E: 2585048.3574
1A-PS-TEE-010	1A-PSWR-5 STA: 11+68.26 OFFSET: 0.00	639.49	10" INV IN (W) = 631.54 8" INV IN (N) = 631.60 10" INV OUT (E) = 631.538	N: 467195.1744 E: 2585109.0945
1A-PS-TEE-011	1A-PSWR-5 STA: 11+07.51 OFFSET: 0.00	639.49	10" INV IN (W) = 630.93 8" INV IN (N) = 630.99 10" INV OUT (E) = 630.931	N: 467196.4280 E: 2585169.8316
1A-PS-WYE-001	1A-PSWR-3 STA: 11+98.35 OFFSET: 0.00 R	639.47	10" INV IN (E) = 630.30 10" INV OUT (W) = 630.296	N: 467182.8251 E: 2584510.7875
1A-PS-WYE-002	1A-PSWR-3 STA: 12+25.19 OFFSET: 0.00 R	640.00	10" INV IN (E) = 630.56 10" INV OUT (W) = 630.564	N: 467183.3788 E: 2584537.6151
1A-PS-WYE-003	1A-PSWR-3 STA: 12+59.10 OFFSET: 0.00 R	639.49	10" INV IN (E) = 630.90 10" INV OUT (W) = 630.903	N: 467184.0787 E: 2584571.5245
1A-PS-WYE-004	1A-PSWR-3 STA: 12+85.94 OFFSET: 0.00 R	640.00	10" INV IN (E) = 631.17 10" INV OUT (W) = 631.171	N: 467184.6325 E: 2584598.3522
1A-PS-WYE-005	1A-PSWR-3 STA: 13+19.85 OFFSET: 0.00 R	639.49	10" INV IN (E) = 631.51 10" INV OUT (W) = 631.511	N: 467185.3324 E: 2584632.2616
1A-PS-WYE-006	1A-PSWR-3 STA: 13+46.69 OFFSET: 0.00 R	640.00	10" INV IN (E) = 631.78 10" INV OUT (W) = 631.779	N: 467185.8861 E: 2584659.0892
1A-PS-WYE-007	1A-PSWR-3 STA: 13+80.60 OFFSET: 0.00 R	639.49	10" INV IN (E) = 632.12 10" INV OUT (W) = 632.118	N: 467186.5860 E: 2584692.9987
1A-PS-WYE-008	1A-PSWR-3 STA: 14+07.44 OFFSET: 0.00 R	640.00	10" INV IN (E) = 632.39 10" INV OUT (W) = 632.386	N: 467187.1397 E: 2584719.8263
1A-PS-WYE-009	1A-PSWR-3 STA: 14+41.35 OFFSET: 0.00 R	639.49	10" INV IN (E) = 632.76 10" INV OUT (W) = 632.762	N: 467187.8396 E: 2584753.7357
1A-PS-WYE-010	1A-PSWR-3 STA: 14+68.19 OFFSET: 0.00 R	640.00	10" INV IN (E) = 633.14 10" INV OUT (W) = 633.138	N: 467188.3933 E: 2584780.5634
1A-PS-WYE-011	1A-PSWR-3 STA: 15+02.10 OFFSET: 0.00 R	639.49	10" INV IN (E) = 633.61 10" INV OUT (W) = 633.612	N: 467189.0932 E: 2584814.4728
1A-PS-WYE-012	1A-PSWR-3 STA: 15+28.94 OFFSET: 0.00 R	640.00	10" INV IN (E) = 633.99 10" INV OUT (W) = 633.988	N: 467189.6470 E: 2584841.3004
1A-PS-WYE-013	1A-PSWR-5 STA: 14+02.20 OFFSET: 0.00 L	639.49	10" INV IN (W) = 634.27 10" INV OUT (E) = 634.272	N: 467190.3469 E: 2584875.2099
1A-PS-WYE-014	1A-PSWR-5 STA: 13+75.36 OFFSET: 0.00 L	640.00	10" INV IN (W) = 633.83 10" INV OUT (E) = 633.829	N: 467190.9006 E: 2584902.0375
1A-PS-WYE-015	1A-PSWR-5 STA: 13+41.45 OFFSET: 0.00 L	639.49	10" INV IN (W) = 633.27 10" INV OUT (E) = 633.270	N: 467191.6005 E: 2584935.9469
1A-PS-WYE-016	1A-PSWR-5 STA: 13+14.61 OFFSET: 0.00 L	640.00	10" INV IN (W) = 633.00 10" INV OUT (E) = 633.002	N: 467192.1542 E: 2584962.7745
1A-PS-WYE-017	1A-PSWR-5 STA: 12+80.70 OFFSET: 0.00 L	639.49	10" INV IN (W) = 632.66 10" INV OUT (E) = 632.662	N: 467192.8541 E: 2584996.6840
1A-PS-WYE-018	1A-PSWR-5 STA: 12+53.86 OFFSET: 0.00 L	640.00	10" INV IN (W) = 632.39 10" INV OUT (E) = 632.394	N: 467193.4078 E: 2585023.5116
1A-PS-WYE-019	1A-PSWR-5 STA: 12+19.95 OFFSET: 0.00 L	639.49	10" INV IN (W) = 632.05 10" INV OUT (E) = 632.055	N: 467194.1077 E: 2585057.4211
1A-PS-WYE-020	1A-PSWR-5 STA: 11+93.11 OFFSET: 0.00 L	640.00	10" INV IN (W) = 631.79 10" INV OUT (E) = 631.787	N: 467194.6615 E: 2585084.2487
1A-PS-WYE-021	1A-PSWR-5 STA: 11+59.20 OFFSET: 0.00 L	639.49	10" INV IN (W) = 631.45 10" INV OUT (E) = 631.447	N: 467195.3614 E: 2585118.1581
1A-PS-WYE-022	1A-PSWR-5 STA: 11+32.36 OFFSET: 0.00 L	640.00	10" INV IN (W) = 631.18 10" INV OUT (E) = 631.179	N: 467195.9151 E: 2585144.9857
1A-PS-WYE-023	1A-PSWR-5 STA: 10+98.45 OFFSET: 0.00 L	639.49	10" INV IN (W) = 630.84 10" INV OUT (E) = 630.840	N: 467196.6150 E: 2585178.8952
1A-PS-WYE-024	1A-PSWR-5 STA: 10+71.61 OFFSET: 0.00 L	640.00	10" INV IN (W) = 630.57 10" INV OUT (E) = 630.572	N: 467197.1687 E: 2585205.7228
1A-PS-WYE-025	1A-PSWR-4 STA: 10+35.90 OFFSET: 0.00	639.44	4" INV IN (E) = 629.69 4" INV IN (S) = 629.69 4" INV OUT (W) = 629.691	N: 467150.1483 E: 2584511.2320
1A-PS-WYE-026	1A-PSWR-4 STA: 10+50.06 OFFSET: 0.00	639.49	4" INV IN (E) = 629.83 4" INV IN (S) = 629.83 4" INV OUT (W) = 629.833	N: 467150.4403 E: 2584525.3807
1A-PS-WYE-027	1A-PSWR-4 STA: 10+83.57 OFFSET: 0.00 R	639.47	4" INV IN (E) = 630.17 4" INV IN (S) = 630.17 4" INV OUT (W) = 630.168	N: 467151.1317 E: 2584558.8878
1A-PS-WYE-028	1A-PSWR-4 STA: 11+05.77 OFFSET: 0.00 R	639.46	4" INV IN (E) = 630.39 4" INV IN (S) = 630.39 4" INV OUT (W) = 630.390	N: 467151.5896 E: 2584581.0782

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-SS-BD-001	1A-SSWR-4 STA: 10+51.91 OFFSET: 0.00	660.72	2" INV IN (NE) = 656.38 2" INV OUT (S) = 656.383	N: 466921.1628 E: 2583457.1003
1A-SS-BD-002	1A-SSWR-4 STA: 11+43.19 OFFSET: 0.00	662.12	2" INV IN (N) = 657.78 2" INV OUT (SW) = 657.784	N: 466987.0222 E: 2583520.3063
1A-SS-CO-001	1A-SSWR-3 STA: 10+64.55 OFFSET: 0.00 R	637.66	4" INV IN (N) = 626.19 4" INV OUT (S) = 626.188	N: 467077.4445 E: 2584861.2348
1A-SS-CO-002	1A-SSWR-3 STA: 11+29.55 OFFSET: 0.00	639.11	4" INV OUT (S) = 631.833	N: 467142.4307 E: 2584859.8935
1A-SS-CO-003	1A-SSWR-5 STA: 12+85.09 OFFSET: 0.00	639.59	8" INV IN (N) = 630.09 8" INV OUT (S) = 630.090	N: 467289.2135 E: 2584434.3719
1A-SS-CO-004	1A-SSWR-5 STA: 12+92.01 OFFSET: 0.00	639.76	8" INV OUT (S) = 630.146 8" INV OUT (N) = 630.146	N: 467295.7547 E: 2584436.6335
1A-SS-CO-005	1A-SSWR-4 STA: 14+50.00 OFFSET: 0.00	669.20	2" INV IN (N) = 665.03 2" INV OUT (S) = 665.028	N: 467193.7893 E: 2583516.0386
1A-SS-CO-006	1A-SSWR-4 STA: 15+28.18 OFFSET: 0.00	669.96	4" INV OUT (E) = 663.974	N: 467359.6620 E: 2583496.4253
1A-SS-MH-001	1A-SSWR-1 STA: 10+83.04 OFFSET: 0.00 R	637.90	12" INV IN (N) = 616.43 8" INV IN (NW) = 616.43 12" INV OUT (S) = 616.329	N: 466990.0742 E: 2585281.6260
1A-SS-MH-002	1A-SSWR-2 STA: 10+58.62 OFFSET: 0.00	638.19	8" INV IN (W) = 617.41 8" INV OUT (SE) = 617.309	N: 467020.5201 E: 2585231.5361
1A-SS-MH-003	1A-SSWR-2 STA: 14+27.66 OFFSET: 0.00	638.36	8" INV IN (W) = 620.58 4" INV IN (N) = 620.58 8" INV OUT (E) = 620.482	N: 467012.9047 E: 2584862.5668
1A-SS-MH-004	1A-SSWR-2 STA: 16+39.07 OFFSET: 0.00 R	638.39	8" INV IN (W) = 622.34 8" INV OUT (E) = 622.242	N: 467008.5424 E: 2584651.2099
1A-SS-MH-005	1A-SSWR-2 STA: 18+50.07 OFFSET: 0.00	638.25	8" INV IN (N) = 627.71 6" INV IN (W) = 624.10 8" INV OUT (E) = 623.999	N: 467004.1882 E: 2584440.2549
1A-SS-MH-006	1A-SSWR-2 STA: 20+26.72 OFFSET: 0.00	637.57	6" INV IN (N) = 625.57 6" INV OUT (E) = 625.470	N: 467000.5428 E: 2584263.6390
1A-SS-MH-007	1A-SSWR-2 STA: 22+33.77 OFFSET: 0.00	636.58	6" INV IN (W) = 627.29 6" INV OUT (S) = 627.194	N: 467207.5524 E: 2584259.3663
1A-SS-MH-008	1A-SSWR-2 STA: 23+41.06 OFFSET: 0.00	648.43	6" INV IN (W) = 645.38 6" INV OUT (E) = 628.903	N: 467205.3386 E: 2584152.1075
1A-SS-MH-009	1A-SSWR-2 STA: 23+98.38 OFFSET: 0.00	650.86	6" INV OUT (E) = 645.950	N: 467204.1557 E: 2584094.7972
1A-SS-MH-010	1A-SSWR-5 STA: 11+83.43 OFFSET: 0.00	-	8" INV IN (N) = 629.28 8" INV OUT (S) = 629.177	N: 467187.5758 E: 2584436.4697
1A-SS-MH-011	1A-SSWR-4 STA: 15+11.24 OFFSET: 0.00	-	4" INV IN (W) = 663.57 2" INV OUT (S) = 665.637	N: 467354.9970 E: 2583512.7112
1A-SS-MH-012	1A-SSWR-1 STA: 10+00.00 OFFSET: 0.00	624.00	12" INV IN (N) = 615.66	N: 466907.0514 E: 2585283.4009
1A-SS-ST-001	1A-SSWR-5 STA: 12+94.66 OFFSET: 0.00	639.83	8" INV IN (S) = 630.17	N: 467298.4075 E: 2584436.5783
2A-SS-MH-001	2A-SSWR-1 STA: 13+00.00 OFFSET: 0.00	619.39	15" INV IN (W) = 609.78 15" INV OUT (E) = 600.431	N: 468345.5814 E: 2585573.0495
2A-SS-MH-002	2A-SSWR-1 STA: 16+00.00 OFFSET: 0.00	625.11	15" INV IN (W) = 612.88 15" INV OUT (E) = 612.778	N: 468366.9422 E: 2585273.8109
2A-SS-MH-003	2A-SSWR-1 STA: 18+96.22 OFFSET: 0.00	625.30	15" INV IN (NW) = 615.94 15" INV OUT (E) = 615.841	N: 468388.0339 E: 2584978.3426
2A-SS-MH-004	2A-SSWR-1 STA: 19+99.99 OFFSET: 0.00	623.55	15" INV IN (W) = 617.08 15" INV OUT (SE) = 616.978	N: 468468.3304 E: 2584912.6144
2A-SS-MH-005	2A-SSWR-1 STA: 22+21.13 OFFSET: 0.00	625.84	15" INV IN (NW) = 619.39 15" INV OUT (E) = 619.290	N: 468447.6320 E: 2584692.4404
2A-SS-MH-006	2A-SSWR-1 STA: 22+72.30 OFFSET: 0.00	632.70	15" INV IN (NW) = 625.57 15" INV OUT (SE) = 619.902	N: 468471.4270 E: 2584647.1382
2A-SS-MH-007	2A-SSWR-1 STA: 23+47.30 OFFSET: 0.00	643.89	15" INV IN (NW) = 630.32 15" INV OUT (SE) = 626.316	N: 468506.3025 E: 2584580.7402
2A-SS-MH-008	2A-SSWR-1 STA: 24+22.30 OFFSET: 0.00	655.16	15" INV OUT (SE) = 631.066	N: 468541.1781 E: 2584514.3422
EX-SS-MH-013	1A-SSWR-5 STA: ??? OFFSET: ??? ???	610.80	15" INV IN (W) = 592.93	N: 468324.2206 E: 2585872.2881

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-PS-WYE-029	1A-PSWR-4.3 STA: 10+31.23 OFFSET: 0.00 R	639.75	4" INV IN (S) = 630.99 4" INV OUT (N) = 630.992	N: 467119.9092 E: 2584559.5321
1A-PS-WYE-030	1A-PSWR-4.3 STA: 10+53.63 OFFSET: 0.00	639.51	4" INV OUT (N) = 631.583	N: 467097.5091 E: 2584559.9944
1A-PS-WYE-031	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.01 8" INV OUT (S) = 634.014	N: 467231.6953 E: 2584500.7113
1A-PS-WYE-032	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.26 8" INV OUT (S) = 634.256	N: 467232.9490 E: 2584561.4484
1A-PS-WYE-033	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.38 8" INV OUT (S) = 634.377	N: 467234.2026 E: 2584622.1854
1A-PS-WYE-034	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.50 8" INV OUT (S) = 634.498	N: 467235.4562 E: 2584682.9225
1A-PS-WYE-035	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.64 8" INV OUT (S) = 634.643	N: 467236.7098 E: 2584743.6596
1A-PS-WYE-036	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.86 8" INV OUT (S) = 634.855	N: 467237.9635 E: 2584804.3966
1A-PS-WYE-037	??? STA: ??? OFFSET: ??? ???	640.00	10" INV IN (N) = 635.23 10" INV OUT (S) = 635.231	N: 467239.2171 E: 2584865.1337
1A-PS-WYE-038	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.84 8" INV OUT (S) = 634.839	N: 467240.4707 E: 2584925.8708
1A-PS-WYE-039	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.68 8" INV OUT (S) = 634.681	N: 467241.7243 E: 2584986.6078
1A-PS-WYE-040	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.53 8" INV OUT (S) = 634.530	N: 467242.9780 E: 2585047.3449
1A-PS-WYE-041	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.38 8" INV OUT (S) = 634.379	N: 467244.2316 E: 2585108.0819
1A-PS-WYE-042	??? STA: ??? OFFSET: ??? ???	640.00	8" INV IN (N) = 634.23 8" INV OUT (S) = 634.227	N: 467245.4852 E: 2585168.8190

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-5600 SANITARY SEWER SCHEDULES 8/20/2025 1:34 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEREK RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

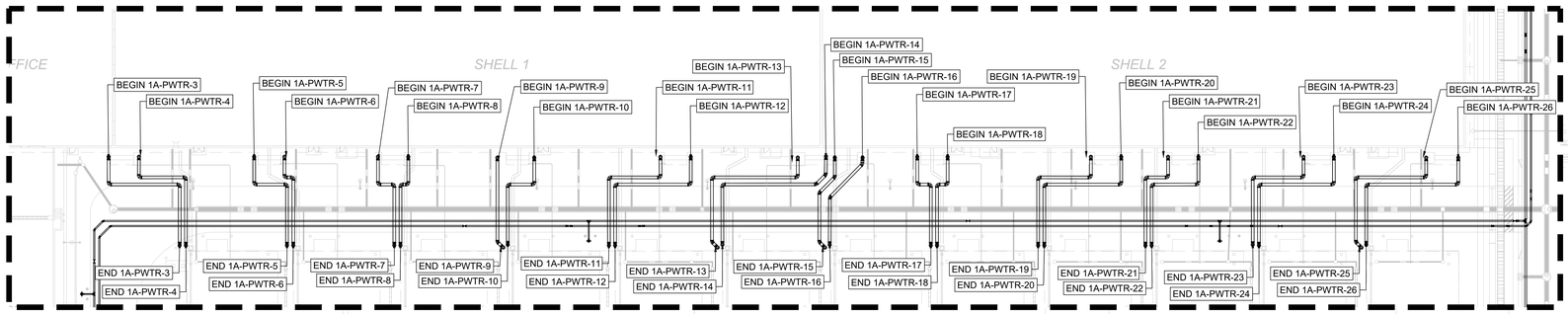
PROJ. NO.: 10434535

SANITARY SEWER SCHEDULE

SCALE: NONE

SHEET NUMBER:
1A-C-5600

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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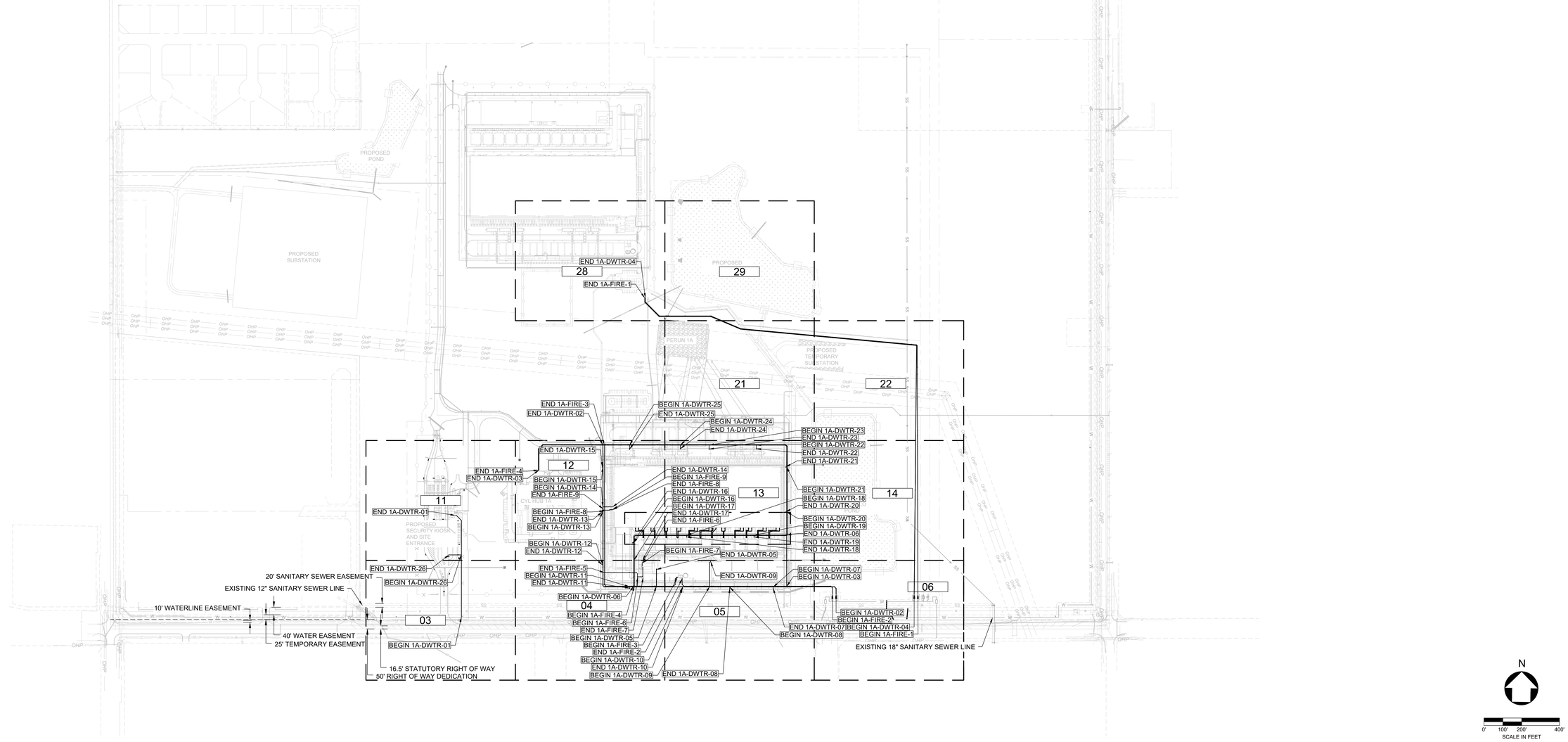
SCALE 1":30'



C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6000 WATER AND FIRE WATER PLAN - OVERALL 6/20/2025 7:39 AM

HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

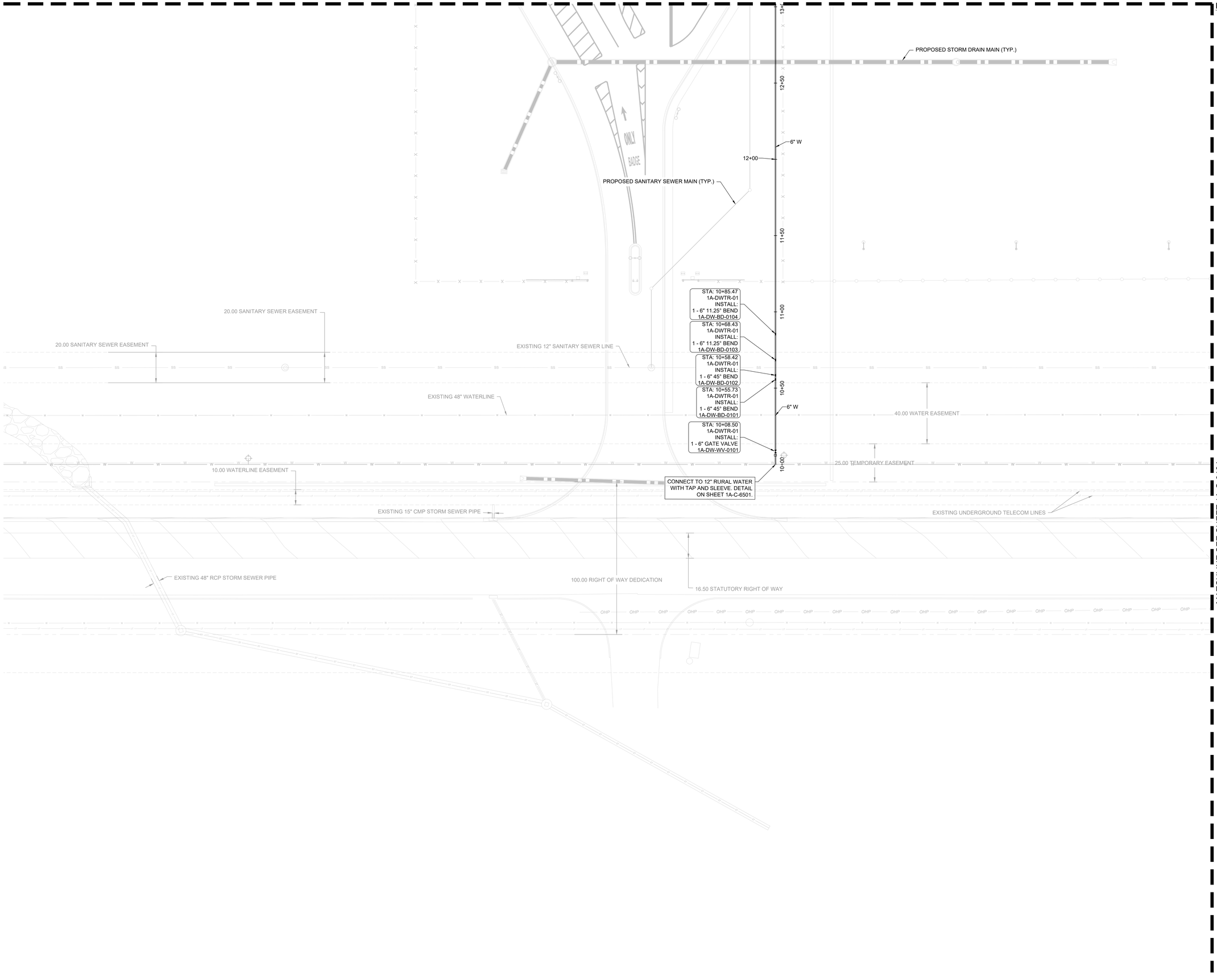
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

WATER AND FIRE WATER PLAN - OVERALL
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6000
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6111



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
2. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
3. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
4. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH TULSA COUNTY WATER SPECIFICATIONS.
5. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 0.5' 1' 2'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

WATER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6103
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6112

MATCHLINE SEE SHEET 1A-C-6103

MATCHLINE SEE SHEET 1A-C-6105

STA: 10+03.85
1A-DWTR-12
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1201

STA: 23+81.63
1A-DWTR-02
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0209

STA: 22+72.42
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0224

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED TELECOM TENCH (TYP.)

PROPOSED TELECOM DUCTBANK (TYP.)

STA: 22+55.14
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0221

STA: 22+59.18
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0222

STA: 22+62.42
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0223

STA: 21+60.37
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0220

STA: 21+55.58
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0219

STA: 21+26.84
1A-DWTR-02
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0208

STA: 10+09.05
1A-DWTR-11
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1101

STA: 10+48.50
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0604

STA: 10+35.95
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0603

STA: 10+25.05
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0602

STA: 10+19.76
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0601

STA: 10+02.46
1A-DWTR-06
INSTALL:
1 - 8" GATE VALVE
1A-DW-WV-0601

STA: 21+05.21
1A-DWTR-02
INSTALL:
1 - 12" X 8" TEE
1A-DW-T-0207

STA: 21+10.03
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0217

STA: 21+15.60
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0218

STA: 10+93.30
1A-DWTR-05
INSTALL:
1 - 16" X 12" REDUCER
1A-DW-RD-0501

CONNECT TO MUPT.
INVERT: 632.42'

STA: 10+39.79
1A-DWTR-05
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0503

STA: 10+28.50
1A-DWTR-05
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0502

STA: 10+13.71
1A-DWTR-05
INSTALL:
1 - 16" 45° BEND
1A-DW-BD-0501

STA: 19+97.62
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0215

PROPOSED ELECTRICAL DUCTBANK (TYP.)

STA: 10+42.26
1A-DWTR-05
INSTALL:
1 - 16" PIV
1A-DW-PIV-0501

STA: 20+03.52
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0216

STA: 19+91.95
1A-DWTR-02
INSTALL:
1 - 16" X 12" REDUCER
1A-DW-RD-0201

STA: 19+85.69
1A-DWTR-02
INSTALL:
1 - 16" X 16" TEE
1A-DW-T-0206

STA: 19+70.75
1A-DWTR-02
INSTALL:
1 - 16" GATE VALVE
1A-DW-WV-0202

STA: 19+56.24
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0214

20.00 SANITARY SEWER EASEMENT

EXISTING 12" SANITARY SEWER LINE

EXISTING 48" WATERLINE

40.00 WATER EASEMENT

EXISTING FIREHYDRANT

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING 15" CMP STORM SEWER PIPE

10.00 WATERLINE EASEMENT

EXISTING UNDERGROUND TELECOM LINES

EXISTING 24" CMP STORM SEWER PIPE

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
2. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
3. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
4. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH TULSA COUNTY WATER SPECIFICATIONS.
5. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790D_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6104

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6113

MATCHLINE SEE SHEET 1A-C-6104

MATCHLINE SEE SHEET 1A-C-6106

CONNECT TO gCUB RESTROOM. INVERT: 634.5'

STA: 11+35.45
1A-DWTR-09
INSTALL:
1 - 3/4" 45° BEND
1A-DW-BD-0902

STA: 11+29.03
1A-DWTR-09
INSTALL:
1 - 3/4" 45° BEND
1A-DW-BD-0901

3/4" PVC 1120 SDR26

FIRE PUMP/TANK

STA: 10+04.12
1A-DWTR-09
INSTALL:
1 - 3/4" GATE VALVE
1A-DW-WV-0901

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

STA: 19+40.92
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0213

STA: 18+58.51
1A-DWTR-02
INSTALL:
1 - 16" 45° BEND
1A-DW-BD-0212

STA: 18+51.90
1A-DWTR-02
INSTALL:
1 - 16" 45° BEND
1A-DW-BD-0211

STA: 18+46.84
1A-DWTR-02
INSTALL:
1 - 16" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0205

STA: 10+09.04
1A-DWTR-10
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1001

STA: 17+03.52
1A-DWTR-02
INSTALL:
1 - 16" X 6" TEE
1 - 6" X 3/4" REDUCER
1A-DW-T-0204

STA: 17+61.27
1A-DWTR-02
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0207

STA: 17+86.02
1A-DWTR-02
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0208

STA: 17+95.99
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0209

STA: 18+08.09
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0210

STA: 15+96.84
1A-DWTR-02
INSTALL:
1 - 16" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0203

STA: 10+09.04
1A-DWTR-08
INSTALL:
FIRE HYDRANT
1A-DW-HYD-0801

STA: 15+00.00
1A-DWTR-02
INSTALL:
1 - 16" GATE VALVE
1A-DW-WV-0201

STA: 13+66.84
1A-DWTR-02
INSTALL:
1 - 16" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0202

STA: 10+09.03
1A-DWTR-07
INSTALL:
FIRE HYDRANT
1A-DW-HYD-0701

STA: 12+94.84
1A-DWTR-02
INSTALL:
1 - 16" X 12" TEE
1A-DW-T-0201

STA: 12+55.69
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0206

STA: 12+08.45
1A-DWTR-02
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0205

EXISTING 12" SANITARY SEWER LINE

20.00 SANITARY SEWER EASEMENT

EXISTING 48" WATERLINE

40.00 WATER EASEMENT

EXISTING UNDERGROUND TELECOM LINE

EXISTING UNDERGROUND TELECOM LINES

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING STORM SEWER LINE

10.00 WATERLINE EASEMENT

EXISTING STORM SEWER LINE

115.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1. UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCUACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6114

MATCHLINE SEE SHEET 1A-C-6105

PROPOSED STORM DRAIN MAIN (TYP.)

STA: 10+42.20
1A-DWTR-02
INSTALL:
1 - 16" 45° BEND
1A-DW-BD-0204

STA: 10+29.72
1A-DWTR-02
INSTALL:
1 - 16" 45° BEND
1A-DW-BD-0203

STA: 10+25.44
1A-DWTR-02
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0202

BACKFLOW PREVENTER SEE DETAIL ON SHEET 1A-C-6501

STA: 10+02.55
1A-DWTR-02
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0201

CONNECT TO RWD 10" WATER METER

PROPOSED FIRE WATER MAIN (TYP.)

EXISTING RWD FIRE METER

EXISTING RWD WATER METER

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING CITY OF TULSA WATER METER

EXISTING RWD WATER EASEMENT

EXISTING 16" WATERLINE

20.00 SANITARY SEWER EASEMENT

EXISTING WATERLINE

EXISTING FIREHYDRANT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING UNDERGROUND TELECOM LINE

GATE

EXISTING TRAFFIC SIGNAL

EXISTING 18" RCP STORM SEWER PIPE

25.00 TEMPORARY EASEMENT

10.00 WATERLINE EASEMENT

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

10+00 11+00 10+50 11+50

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

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SHEET NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

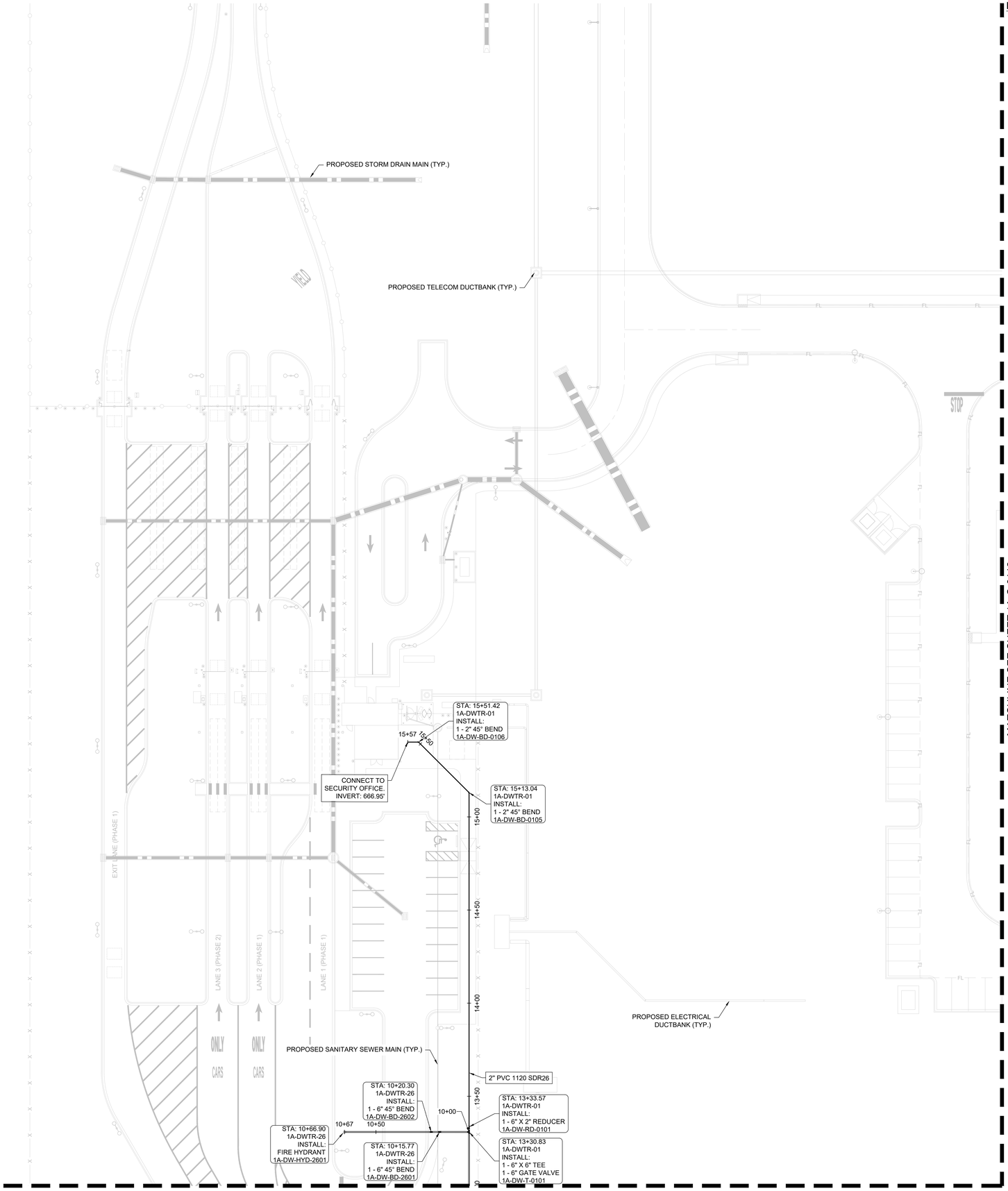
PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6106

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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DRAWN: JLF

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6111

MATCHLINE SEE SHEET 1A-C-6113

STA: 30+38.40
1A-DWTR-03
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0325

STA: 30+68.40
1A-DWTR-03
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0326

STA: 31+17.73
1A-DWTR-03
INSTALL:
1 - 8" 11.25° BEND
1A-DW-BD-0327

SEE CONTINUATION ON CYL HUB PLANS

PROPOSED TELECOM DUCTBANK (TYP.)

STA: 27+99.33
1A-DWTR-03
INSTALL:
1 - 8" 22.5° BEND
1A-DW-BD-0324

STA: 27+84.64
1A-DWTR-03
INSTALL:
1 - 8" 22.5° BEND
1A-DW-BD-0323

STA: 27+74.58
1A-DWTR-03
INSTALL:
1 - 8" 11.25° BEND
1A-DW-BD-0322

STA: 27+55.77
1A-DWTR-03
INSTALL:
1 - 8" 11.25° BEND
1A-DW-BD-0321

STA: 27+41.31
1A-DWTR-03
INSTALL:
1 - 12" X 8" REDUCER
1A-DW-RD-0301

STA: 27+28.68
1A-DWTR-03
INSTALL:
1 - 12" 22.5° BEND
1A-DW-BD-0320

STA: 27+21.12
1A-DWTR-03
INSTALL:
1 - 12" X 12" TEE
1A-DW-T-0308

STA: 28+08.31
1A-DWTR-03
INSTALL:
1 - 8" GATE VALVE
1A-DW-WV-0304

STA: 27+13.89
1A-DWTR-03
INSTALL:
1 - 12" 22.5° BEND
1A-DW-BD-0319

STA: 25+79.55
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0307

STA: 10+10.01
1A-DWTR-25
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2501

STA: 10+17.42
1A-DWTR-25
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2502

STA: 10+23.33
1A-DWTR-25
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2501

STA: 25+00.00
1A-DWTR-03
INSTALL:
1 - 12" GATE VALVE
1A-DW-WV-0303

STA: 24+79.32
1A-DWTR-03
INSTALL:
1 - 12" 11.25° BEND
1A-DW-BD-0318

STA: 24+61.33
1A-DWTR-03
INSTALL:
1 - 12" 11.25° BEND
1A-DW-BD-0317

PROPOSED ELECTRICAL TRENCH (TYP.)

DRILLED PIER (TYP.)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

DRILLED PIER (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

STA: 29+64.05
1A-DWTR-02
INSTALL:
1 - 12" GATE VALVE
1A-DW-WV-0204

STA: 10+03.83
1A-DWTR-15
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1501

STA: 28+99.62
1A-DWTR-02
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0212

PROPOSED PROCESS SEWER MAIN (TYP.)

STA: 26+88.50
1A-DWTR-02
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0211

STA: 10+03.83
1A-DWTR-14
INSTALL:
1 - 3" GATE VALVE
1A-DW-WV-1401

STA: 10+08.83
1A-DWTR-14
INSTALL:
1 - 3" 22.5° BEND
1A-DW-BD-1401

CONNECT TO DC.
INVERT:633.17'

STA: 10+32.48
1A-DWTR-14
INSTALL:
1 - 3" 45° BEND
1A-DW-BD-1404

STA: 10+28.16
1A-DWTR-14
INSTALL:
1 - 3" 45° BEND
1A-DW-BD-1403

STA: 10+18.12
1A-DWTR-14
INSTALL:
1 - 3" 22.5° BEND
1A-DW-BD-1402

STA: 26+75.51
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0228

STA: 26+72.59
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0227

STA: 26+61.63
1A-DWTR-02
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0210

STA: 10+03.84
1A-DWTR-13
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1301

STA: 26+37.75
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0226

STA: 26+35.12
1A-DWTR-02
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0225

OFFICE

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

STA: 24+64.05
1A-DWTR-02
INSTALL:
1 - 12" GATE VALVE
1A-DW-WV-0203

LOADING

STA: 12+75.97
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0608

STA: 12+68.89
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0607

STA: 12+51.04
1A-DWTR-06
INSTALL:
1 - 8" GATE VALVE
1A-DW-WV-0602

STA: 10+07.03
1A-DWTR-16
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1601

STA: 12+32.52
1A-DWTR-06
INSTALL:
1 - 8" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0602

STA: 11+55.40
1A-DWTR-06
INSTALL:
1 - 8" 22.5° BEND
1A-DW-BD-0606

STA: 11+46.76
1A-DWTR-06
INSTALL:
1 - 8" 22.5° BEND
1A-DW-BD-0605

STA: 11+41.30
1A-DWTR-06
INSTALL:
1 - 8" X 2" TEE
1A-DW-T-0601

TRESTLE FOUNDATION (TYP.)

STA: 10+04.68
1A-DWTR-17
INSTALL:
1 - 2" GATE VALVE
1A-DW-WV-1701

PROPOSED PROCESS SEWER MAIN (TYP.)

2" PVC 1120 SDR26

PROPOSED ELECTRICAL TRENCH (TYP.)

CONNECT TO CTB.
INVERT: 634.83'

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

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8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL_1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6112

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6121

MATCHLINE SEE SHEET 1A-C-6112

MATCHLINE SEE SHEET 1A-C-6114

SHELL 1

SHELL 2

STA: 23+10.26
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0306

STA: 10+06.18
1A-DWTR-24
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2401

STA: 10+17.32
1A-DWTR-24
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2402

STA: 10+20.54
1A-DWTR-24
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2401

DRILLED PIER (TYP.)

STA: 21+57.91
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0305

STA: 10+06.12
1A-DWTR-23
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2301

STA: 10+17.32
1A-DWTR-23
INSTALL:
1 - 6" 45° BEND
1A-DW-BD-2302

STA: 10+22.97
1A-DWTR-23
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2301

PROPOSED ELECTRICAL TRENCH (TYP.)

STA: 20+00.00
1A-DWTR-03
INSTALL:
1 - 12" GATE VALVE
1A-DW-WV-0302

STA: 19+20.21
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0316

STA: 19+11.02
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0315

STA: 19+07.85
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0304

STA: 10+20.45
1A-DWTR-22
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2201

PROPOSED STORM DRAIN MAIN (TYP.)

STA: 17+53.51
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0314

STA: 17+43.51
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0313

PROPOSED ELECTRICAL DUCTBANK (TYP.)

STA: 16+58.16
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0312

STA: 16+49.31
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0311

STA: 16+45.32
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0310

STA: 16+36.60
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0309

STA: 10+06.50
1A-DWTR-21
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2101

STA: 16+34.30
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0303

PROPOSED FIRE WATER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

STA: 15+63.80
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0308

STA: 15+54.36
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0307

PROPOSED TELECOM TRENCH (TYP.)

STA: 15+00.00
1A-DWTR-03
INSTALL:
1 - 12" GATE VALVE
1A-DW-WV-0301

STA: 14+57.33
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0306

STA: 14+47.41
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0305

STA: 13+96.31
1A-DWTR-03
INSTALL:
1 - 12" X 6" TEE
1A-DW-T-0302

STA: 10+06.50
1A-DWTR-20
INSTALL:
FIRE HYDRANT
1A-DW-HYD-2001

STA: 13+79.25
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0304

STA: 13+69.80
1A-DWTR-03
INSTALL:
1 - 12" 45° BEND
1A-DW-BD-0303

STA: 20+75.16
1A-DWTR-06
INSTALL:
1 - 8" GATE VALVE
1A-DW-WV-0604

STA: 20+76.70
1A-DWTR-06
INSTALL:
1 - 8" 45° BEND
1A-DW-BD-0609

STA: 12+73.95
1A-DWTR-03
INSTALL:
1 - 12" X 8" TEE
1A-DW-T-0301

STA: 15+50.90
1A-DWTR-06
INSTALL:
1 - 8" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0603

STA: 10+11.32
1A-DWTR-18
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1801

STA: 17+65.62
1A-DWTR-06
INSTALL:
1 - 8" GATE VALVE
1A-DW-WV-0603

STA: 19+08.13
1A-DWTR-06
INSTALL:
1 - 8" X 6" TEE
1 - 6" GATE VALVE
1A-DW-T-0604

STA: 10+11.41
1A-DWTR-19
INSTALL:
FIRE HYDRANT
1A-DW-HYD-1901

PROPOSED FIRE WATER MAIN (TYP.)

STA: 11+88.40
1A-DWTR-03
INSTALL:
1 - 12" 22.5° BEND
1A-DW-BD-0302

STA: 11+66.47
1A-DWTR-03
INSTALL:
1 - 12" 22.5° BEND
1A-DW-BD-0301

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
2. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
3. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
4. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH TULSA COUNTY WATER SPECIFICATIONS.
5. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 4/2/2026 1:12 AM

HDR, INC.
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN D. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6113

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6122

MATCHLINE SEE SHEET 1A-C-6113

PROPOSED STORM DRAIN MAIN (TYP.)

150.00 ELECTRICAL EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINES

18+00

17+50

16" W

17+00

16+50

STA: 16+18.42
1A-DWTR-04
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0404

STA: 15+96.56
1A-DWTR-04
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0403

16+00

STA: 15+86.48
1A-DWTR-04
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0402

15+50

STA: 15+50.00
1A-DWTR-04
INSTALL:
1 - 16" 11.25° BEND
1A-DW-BD-0401

STA: 15+00.00
1A-DWTR-04
INSTALL:
1 - 16" GATE VALVE
1A-DW-WV-0401

15+00

14+50

14+00

13+50

13+00

12+50

16" W

12+00

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C151, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6114

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6129

STA: 32+55.83
1A-DWTR-04
INSTALL:
1 - 16" 22.5° BEND
1A-DW-BD-0408

STA: 30+00.00
1A-DWTR-04
INSTALL:
1 - 16" GATE VALVE
1A-DW-WV-0404

MATCHLINE SEE SHEET 1A-C-6122

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105..

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6101 WATER PLAN 6/19/2025 2:05 PM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

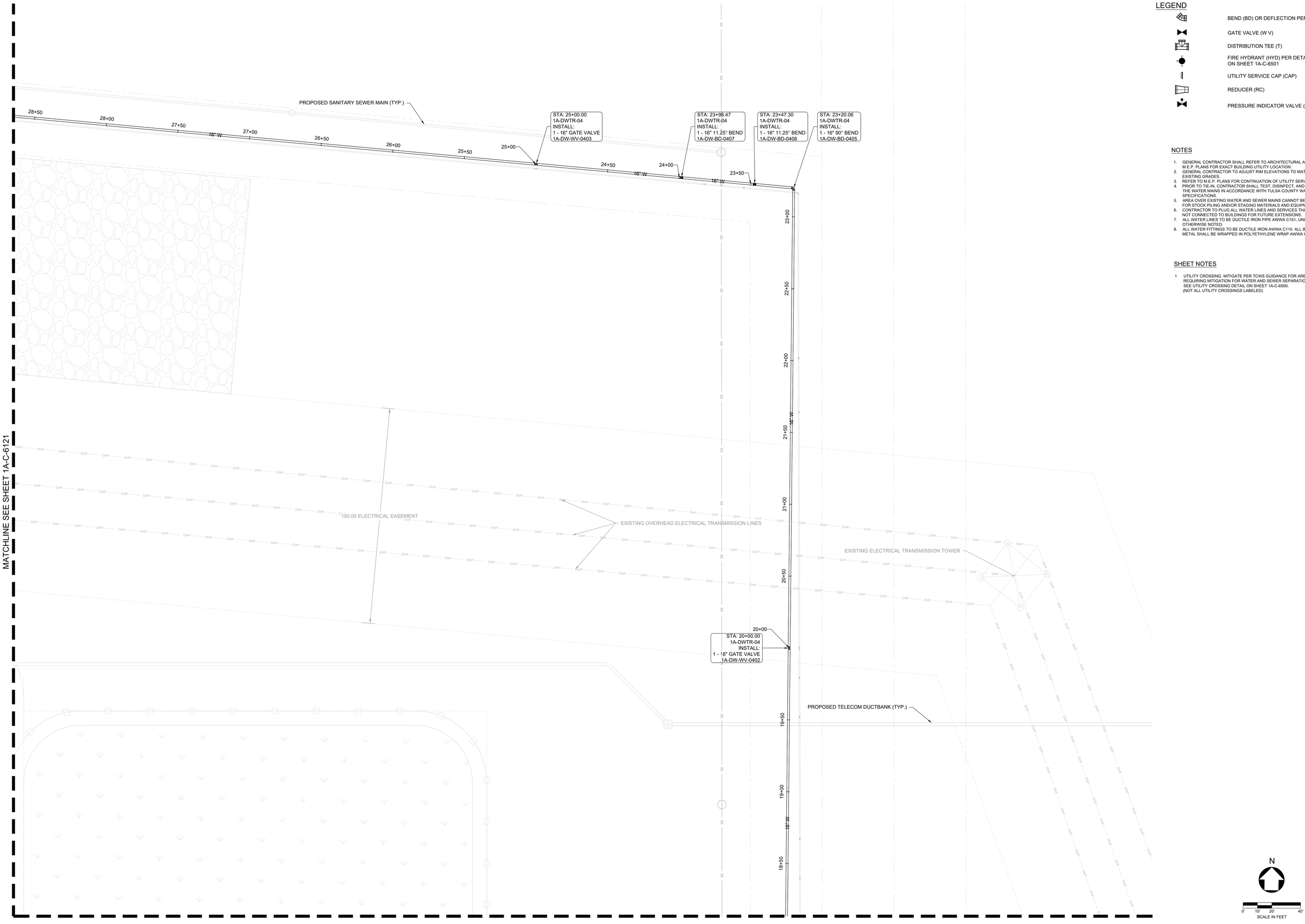
REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

WATER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6121
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

C:\ACCVACCDocs\Kimley-Horn\06005790O_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6106 WATER PLAN 6/19/2025 3:54 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

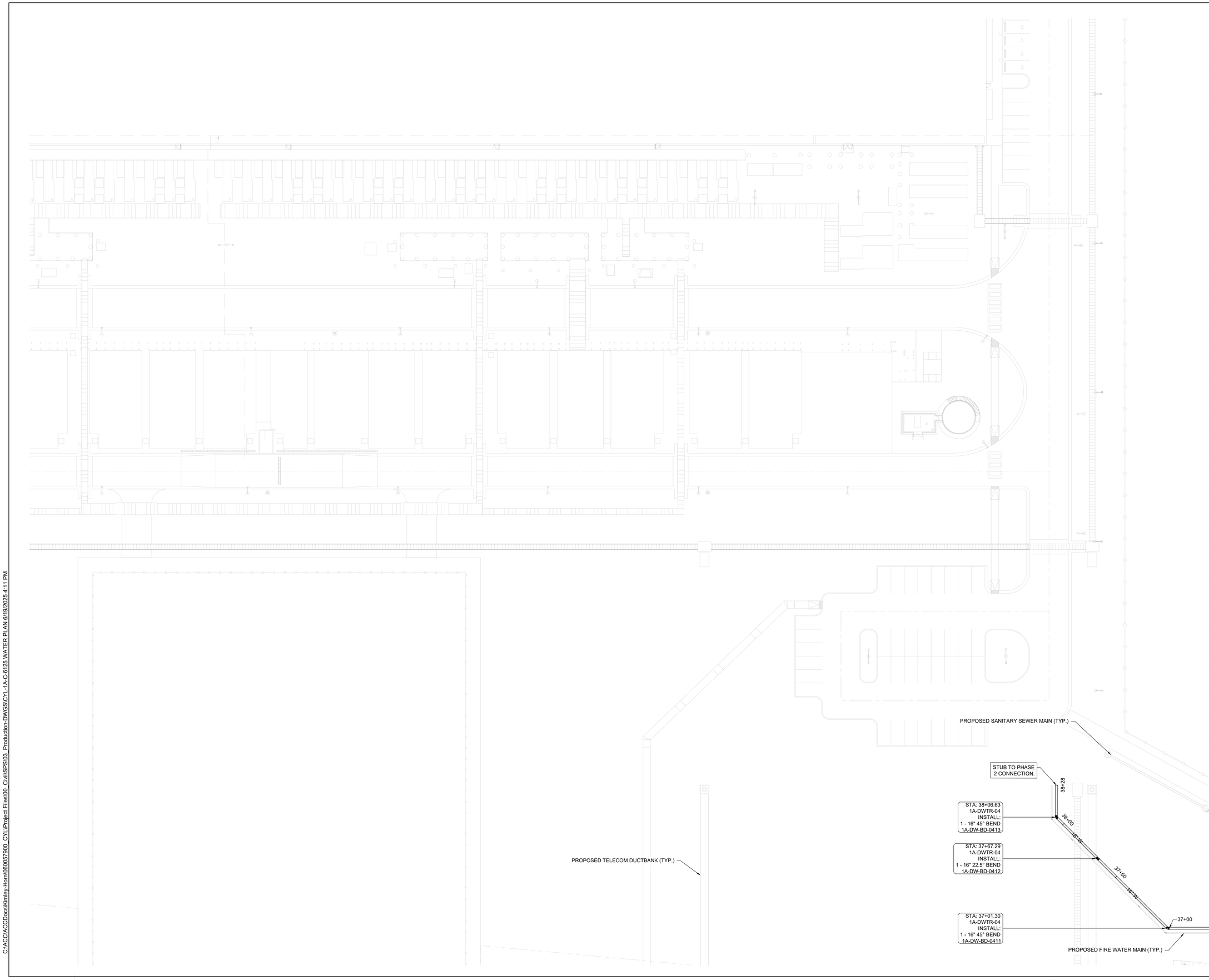
PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6125 WATER PLAN 6/19/2025 4:11 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL 32622 OKLAHOMA 04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

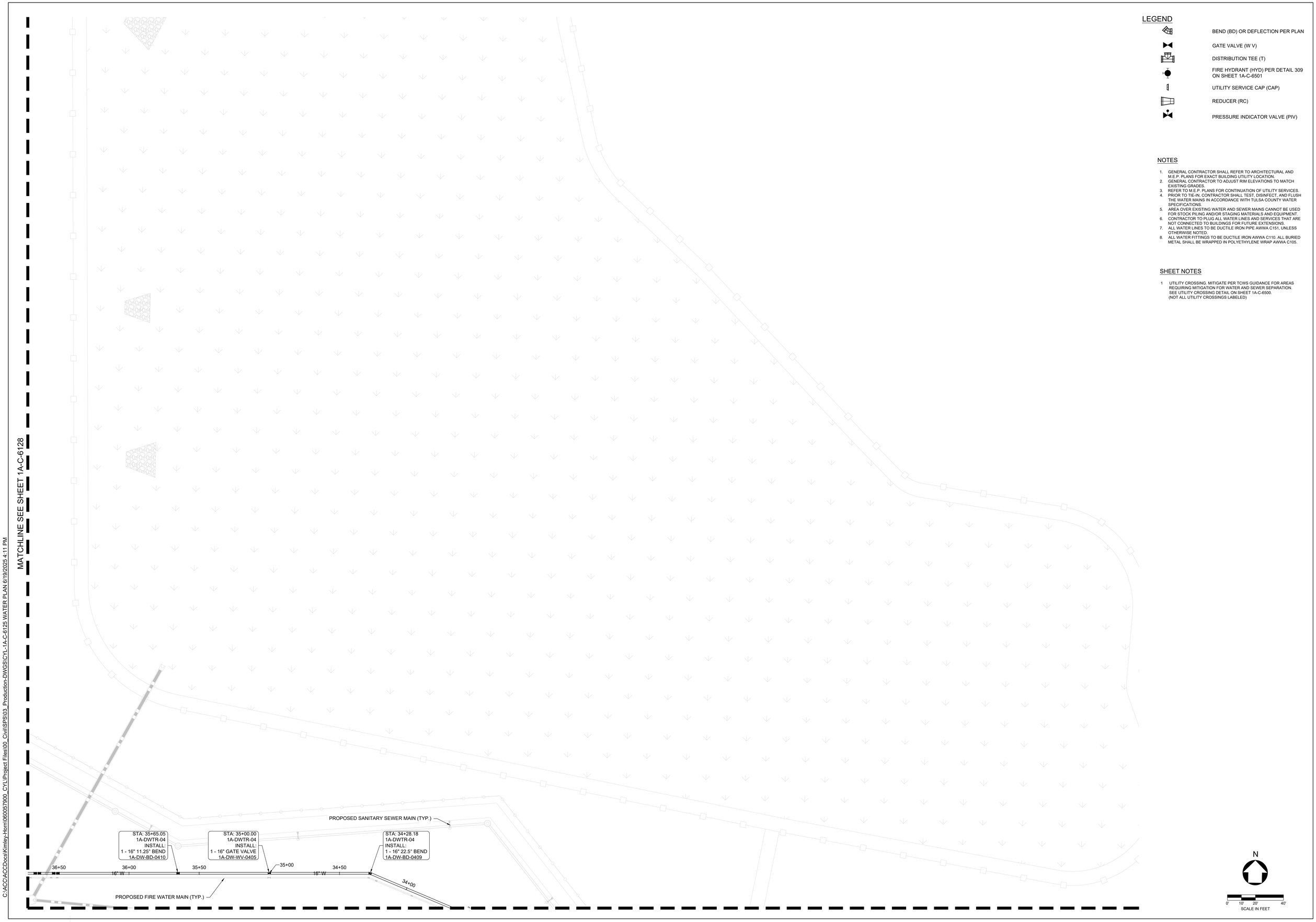
PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6128

PAPER SIZE: E (36"x48")
PHASE: 65% FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C151, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6125 WATER PLAN 6/19/2025 4:11 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32622
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6129

PAPER SIZE: E (36"x48")
PHASE: 65% FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6212

MATCHLINE SEE SHEET 1A-C-6203

MATCHLINE SEE SHEET 1A-C-6205

PROPOSED TELECOM TENCH (TYP.)

PROPOSED FIRE HYDRANT

PROPOSED STORM DRAIN MAIN (TYP.)

STA: 14+91.12
1A-FIRE-3
INSTALL:
1 - 8" X 8" TEE
1A-FW-T-0303

STA: 12+26.47
1A-FIRE-5
INSTALL:
1 - 8" GATE VALVE
1A-FW-WV-0502

STA: 10+73.25
1A-FIRE-5
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0502

STA: 10+64.91
1A-FIRE-4
INSTALL:
1 - 8" GATE VALVE
1A-FW-WV-0401

STA: 10+87.97
1A-FIRE-6
INSTALL:
1 - 6" 45° BEND
1A-FW-BD-0605

STA: 10+83.67
1A-FIRE-6
INSTALL:
1 - 6" 45° BEND
1A-FW-BD-0604

CONNECT TO CTB.
INVERT: 635

6" FW

STA: 10+38.69
1A-FIRE-6
INSTALL:
1 - 6" PIV
1A-FW-PIV-0601

STA: 10+34.30
1A-FIRE-6
INSTALL:
1 - 6" 90° BEND
1A-FW-BD-0603

STA: 10+66.17
1A-FIRE-5
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0501

STA: 10+47.67
1A-FIRE-4
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0402

STA: 10+35.48
1A-FIRE-4
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0401

STA: 10+21.09
1A-FIRE-6
INSTALL:
1 - 6" 45° BEND
1A-FW-BD-0601

STA: 10+32.61
1A-FIRE-6
INSTALL:
1 - 6" 45° BEND
1A-FW-BD-0602

STA: 10+03.00
1A-FIRE-5
INSTALL:
1 - 8" GATE VALVE
1A-FW-WV-0501

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

STA: 14+28.76
1A-FIRE-3
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0312

STA: 14+16.28
1A-FIRE-3
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0311

STA: 12+65.45
1A-FIRE-3
INSTALL:
1 - 8" X 8" TEE
1A-FW-T-0302

20.00 SANITARY SEWER EASEMENT

EXISTING 12" SANITARY SEWER LINE

PROPOSED TELECOM DUCTBANK (TYP.)

EXISTING 48" WATERLINE

40.00 WATER EASEMENT

EXISTING FIREHYDRANT

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING 15" CMP STORM SEWER PIPE

10.00 WATERLINE EASEMENT

EXISTING UNDERGROUND TELECOM LINES

EXISTING 15" CMP STORM SEWER PIPE

EXISTING 24" CMP STORM SEWER PIPE

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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9. ALL WATER BELL CONNECTIONS SHALL BE RESTRAINED WITH BELL RESTRAIN HARNESS FOR C900 PVC PIPE.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCUACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6201 FIRE WATER PLAN 4/2/2026 1:13 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

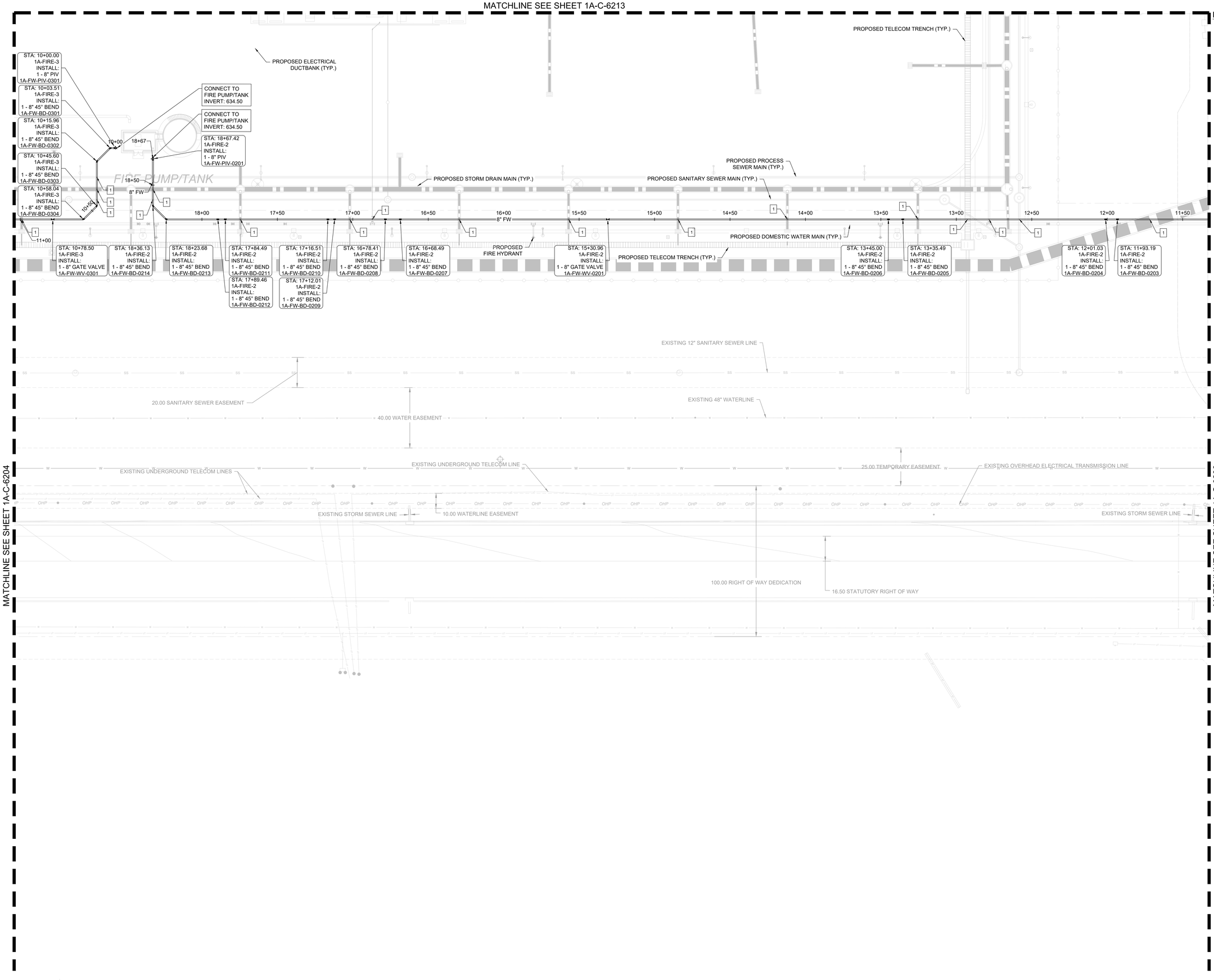
SHEET NUMBER:
1A-C-6204

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6213

MATCHLINE SEE SHEET 1A-C-6204

MATCHLINE SEE SHEET 1A-C-6206



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

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SHEET NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCA\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6201 FIRE WATER PLAN 4/2/2026 1:13 AM

HDR, INC.
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04/09/2026

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ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6205

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6114

MATCHLINE SEE SHEET 1A-C-6205

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

11+50

11+00

8" FW

10+50

PROPOSED DOMESTIC WATER MAIN (TYP.)

10+00

11+00

8" FW

10+50

STA: 10+45.20
1A-FIRE-2
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0202

8" FW

STA: 10+32.71
1A-FIRE-2
INSTALL:
1 - 8" 45° BEND
1A-FW-BD-0201

BACKFLOW PREVENTER. SEE DETAIL ON SHEET 1A-C-6501

CONNECT TO RWD 4" WATER METER (FIRE)

10+00

PROPOSED DOMESTIC WATER MAIN (TYP.)

BACKFLOW PREVENTER. SEE DETAIL ON SHEET 1A-C-6501

CONNECT TO RWD 4" WATER METER (FIRE)

EXISTING RWD FIRE METER

EXISTING RWD WATER METER

EXISTING CITY OF TULSA WATER METER

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING 16" WATERLINE

EXISTING RWD WATER EASEMENT

20.00 SANITARY SEWER EASEMENT

EXISTING RWD FIRE METER

EXISTING RWD WATER METER

EXISTING RWD FIRE METER

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING CITY OF TULSA WATER METER

EXISTING WATERLINE

WV

FH

EXISTING FIRE HYDRANT

EXISTING UNDERGROUND TELECOM LINE

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

GATE

25.00 TEMPORARY EASEMENT

10.00 WATERLINE EASEMENT

EXISTING 18" RCP STORM SEWER PIPE

100.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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SHEET NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6206 FIRE WATER PLAN 10/9/2025 8:02 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

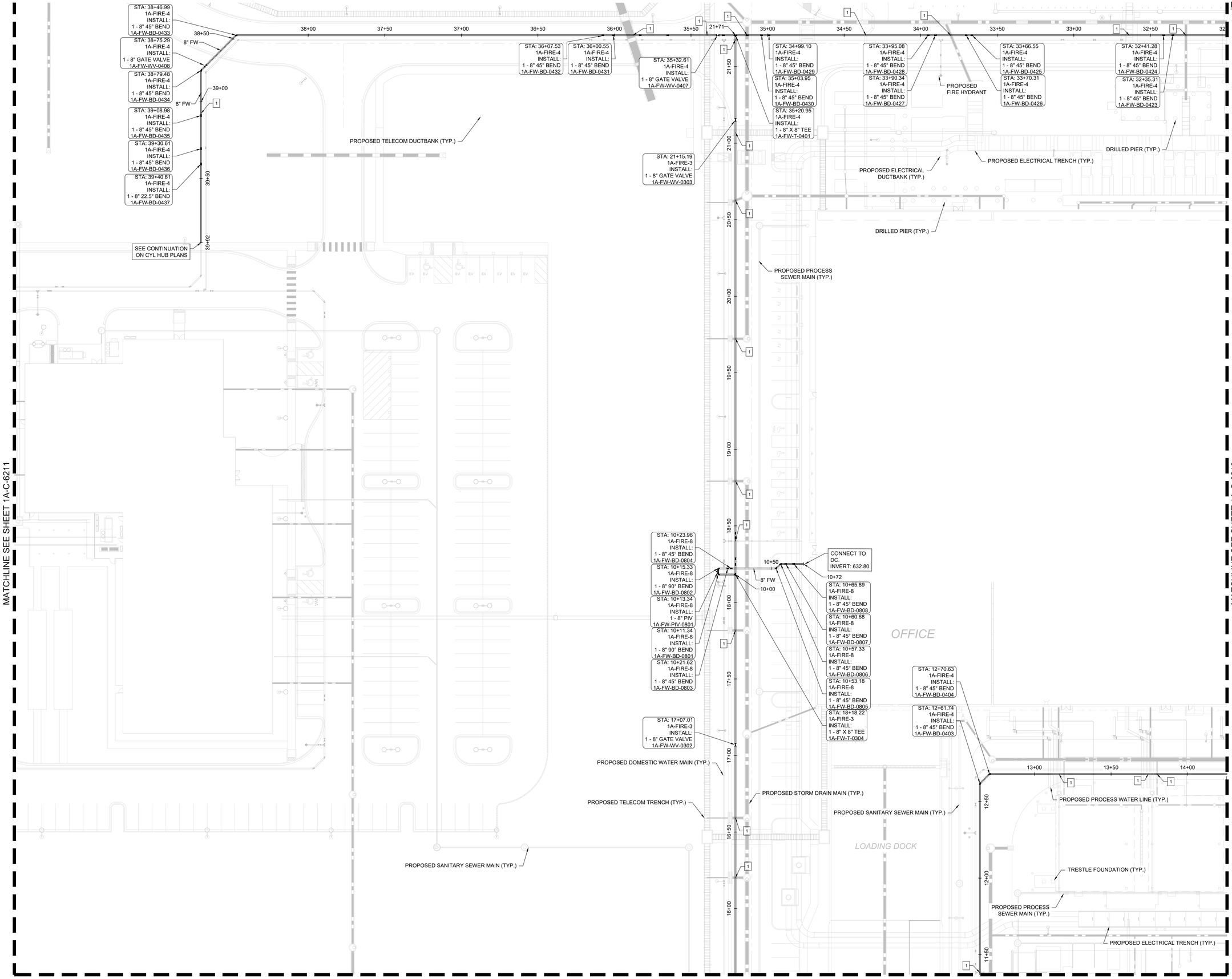
PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6206

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6201 FIRE WATER PLAN 4/2/2026 1:13 AM

HDR, INC.
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04/09/2026

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KEYPLAN

REVISIONS		
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

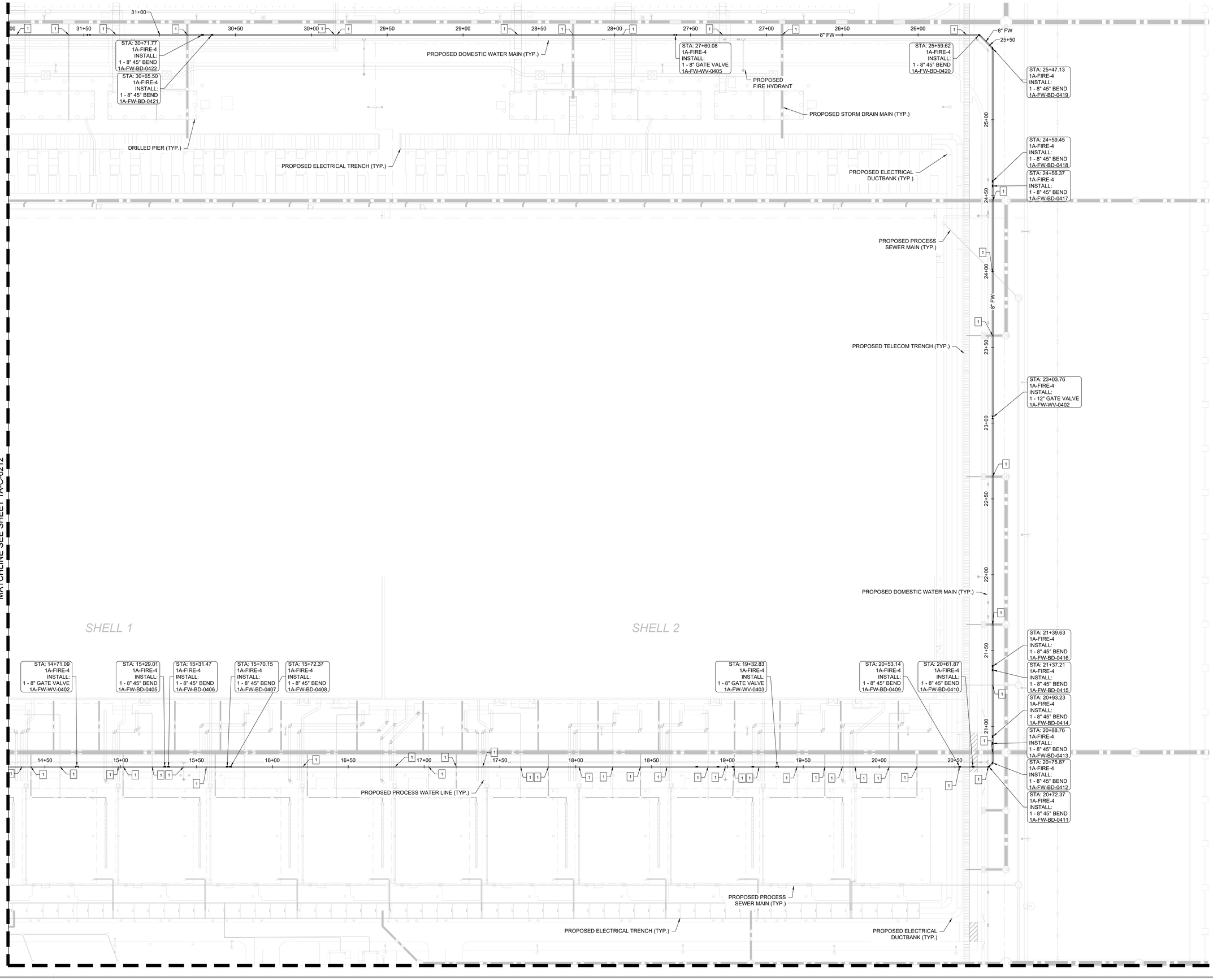
PROJ. NO.:10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6212

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



MATCHLINE SEE SHEET 1A-C-6212

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6201 FIRE WATER PLAN 4/2/2026 1:13 AM

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6213

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6122

MATCHLINE SEE SHEET 1A-C-6213

PROPOSED STORM DRAIN MAIN (TYP.)

150.00 ELECTRICAL EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINES

18+00
17+50
8" FW
17+00
16+50
8" FW
16+00
15+50
15+00
14+50
14+00
13+50
13+00
8" FW
12+50
12+00

STA: 16+33.43
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0104

STA: 16+06.01
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0103

STA: 15+96.01
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0102

STA: 15+68.59
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0101

1

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
2. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
3. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
4. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH TULSA COUNTY WATER SPECIFICATIONS.
5. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C151, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.
9. ALL WATER BELL CONNECTIONS SHALL BE RESTRAINED WITH BELL RESTRAIN HARNESS FOR C900 PVC PIPE.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790O_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6206 FIRE WATER PLAN 10/9/2025 8:02 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6214

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6229

33+50
8" FW
33+00
32+50
32+00
31+50
8" FW
31+00
30+50
30+00
29+50
8" FW
29+00

STA: 32+55.61
1A-FIRE-1
INSTALL:
1 - 8" 22.5° BEND
1A-FW-BD-0114

STA: 32+77.38
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0116

STA: 32+58.84
1A-FIRE-1
INSTALL:
1 - 8" 11.25° BEND
1A-FW-BD-0115

1

PROPOSED SANITARY SEWER MAIN (TYP.)

STA: 30+00.00
1A-FIRE-1
INSTALL:
1 - 8" GATE VALVE
1A-FW-WV-0104

150.00 ELECTRICAL EASEMENT

PROPOSED TELECOM
DUCTBANK (TYP.)

PROPOSED ELECTRICAL
DUCTBANK (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

MATCHLINE SEE SHEET 1A-C-6122

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL W-2 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
2. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
3. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
4. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH TULSA COUNTY WATER SPECIFICATIONS.
5. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
6. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C104, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.
9. ALL WATER BELL CONNECTIONS SHALL BE RESTRAINED WITH BELL RESTRAIN HARNESS FOR C900 PVC PIPE.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6201 FIRE WATER PLAN 4/9/2026 6:44 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

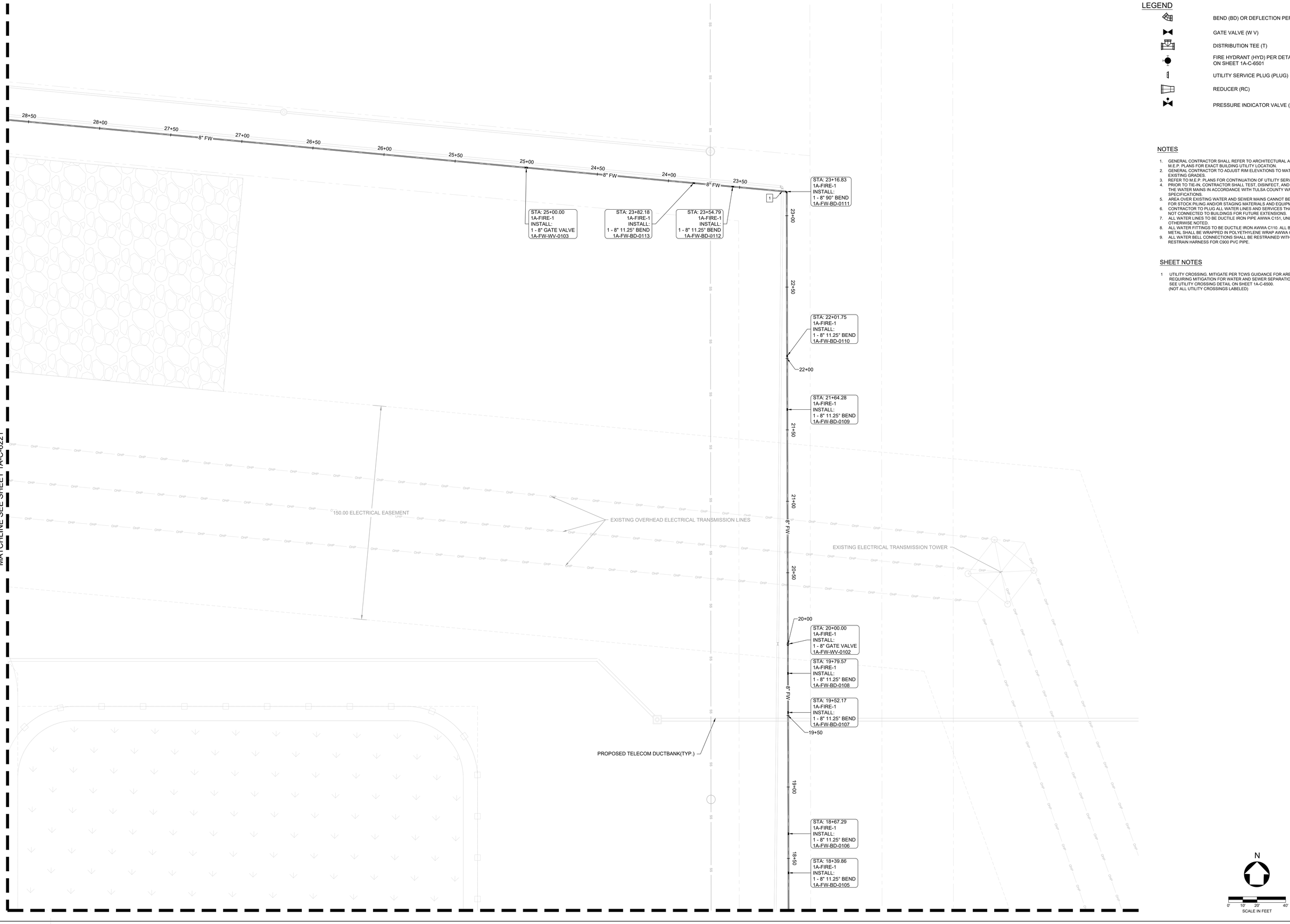
REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

FIRE WATER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6221
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



MATCHLINE SEE SHEET 1A-C-6221

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6206 FIRE WATER PLAN 10/9/2025 8:02 AM

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.
9. ALL WATER BELL CONNECTIONS SHALL BE RESTRAINED WITH BELL RESTRAIN HARNESS FOR C900 PVC PIPE.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

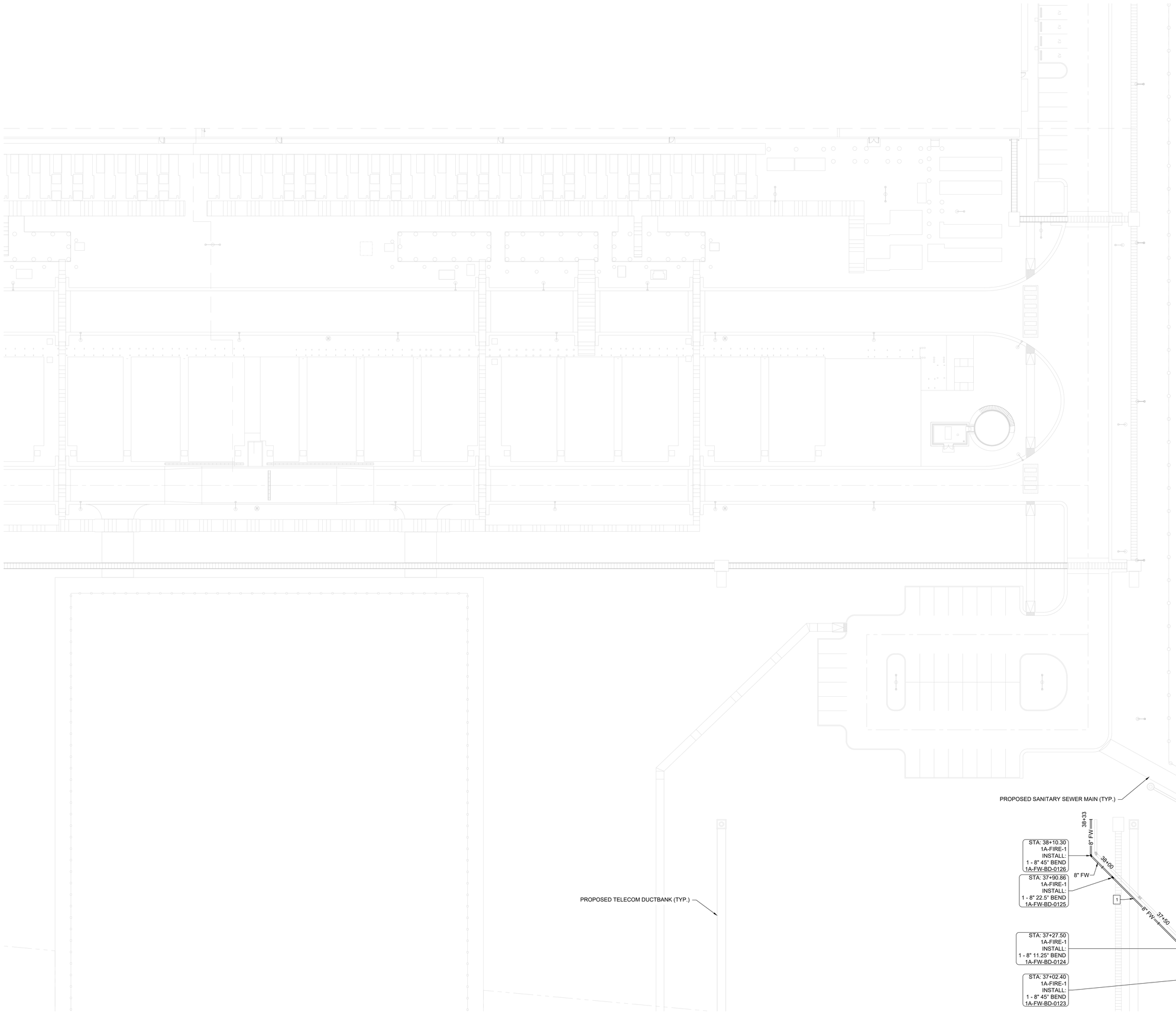
PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6222

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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7. ALL WATER LINES TO BE DUCTILE IRON PIPE AWWA C151, UNLESS OTHERWISE NOTED.
8. ALL WATER FITTINGS TO BE DUCTILE IRON AWWA C110. ALL BURIED METAL SHALL BE WRAPPED IN POLYETHYLENE WRAP AWWA C105.
9. ALL WATER BELL CONNECTIONS SHALL BE RESTRAINED WITH BELL RESTRAIN HARNESS FOR C900 PVC PIPE.

SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6228

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-6128

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LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
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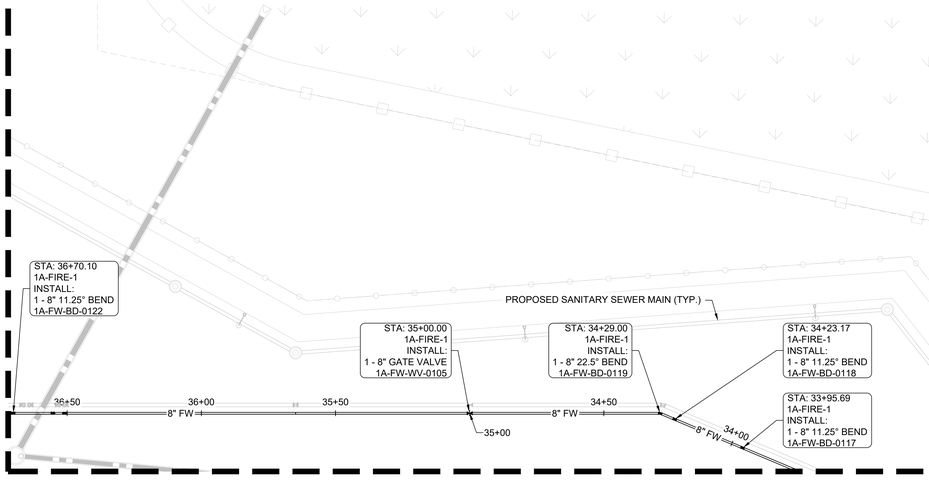
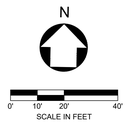
SHEET NOTES

1 UTILITY CROSSING. MITIGATE PER TCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 1A-C-6500. (NOT ALL UTILITY CROSSINGS LABELED)





HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

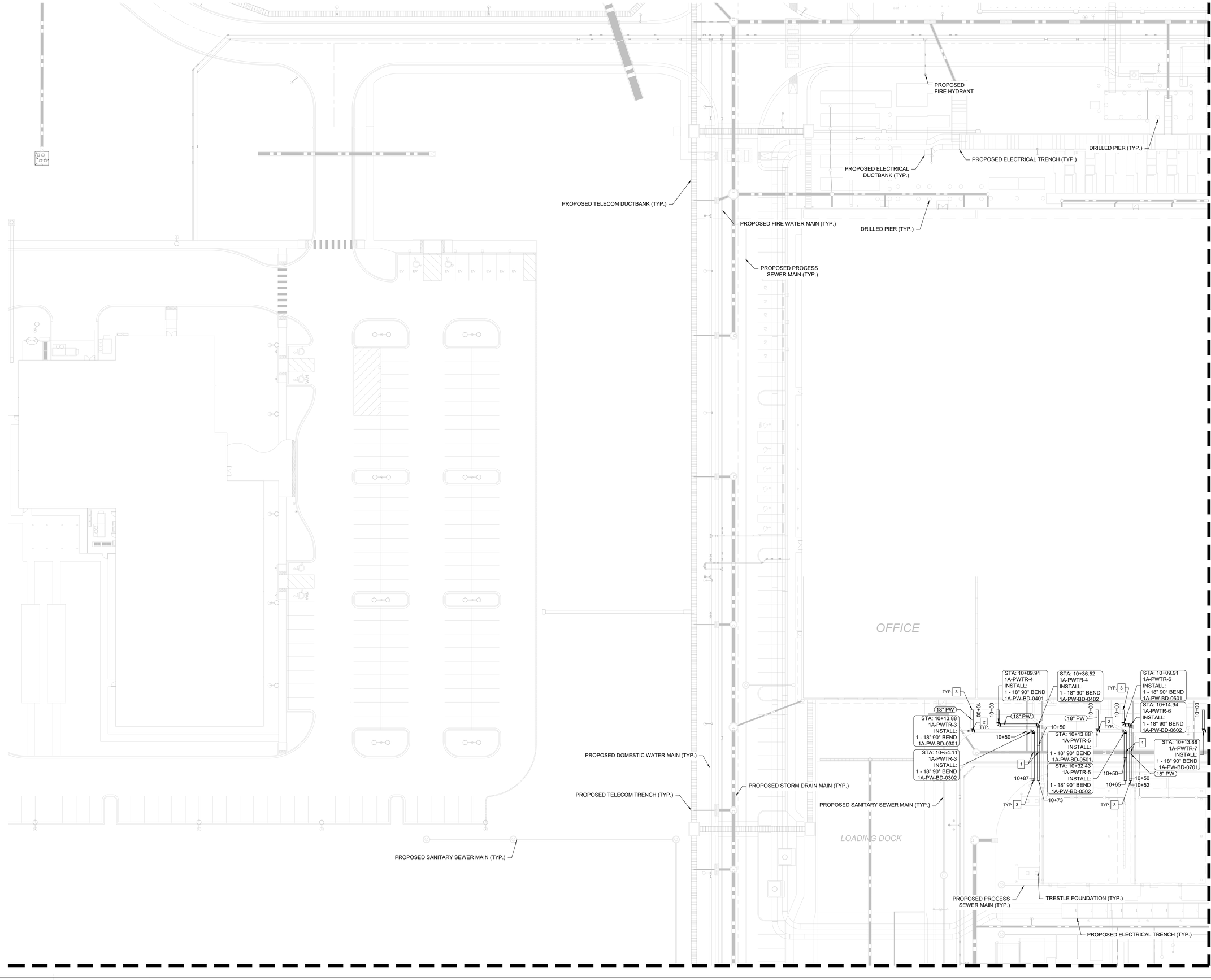
PROJ. NO.: 10434535

FIRE WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6229

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

1. PWTR = PROCESS CHILLED WATER (PCW)
2. GENERAL CONTRACTOR SHALL REFER TO ARCHITECTURAL AND M.E.P. PLANS FOR EXACT BUILDING UTILITY LOCATION.
3. GENERAL CONTRACTOR TO ADJUST RIM ELEVATIONS TO MATCH EXISTING GRADES.
4. REFER TO M.E.P. PLANS FOR CONTINUATION OF UTILITY SERVICES.
5. PRIOR TO TIE-IN, CONTRACTOR SHALL TEST, DISINFECT, AND FLUSH THE WATER MAINS IN ACCORDANCE WITH DORCHESTER COUNTY WATER SPECIFICATIONS.
6. ALL PCW CARRIER PIPES SHALL BE WELD TESTED TO THE REQUIREMENTS OF ASME B31.1 AND PNEUMATICALLY LEAK TESTED AT 25 PSIG FOR 10 MINUTES PRIOR TO INSULATING AND BURYING.
7. UPON COMPLETION OF THE PCW SYSTEM, ALL PCW LINES THAT ARE PUT INTO SERVICE SHALL BE PRESSURE TESTED AND FLUSHED IN ACCORDANCE WIH DRAWINGS 2A-M-506MY AND 2A-M-516MY.
8. AREA OVER EXISTING WATER AND SEWER MAINS CANNOT BE USED FOR STOCK PILING AND/OR STAGING MATERIALS AND EQUIPMENT.
9. CONTRACTOR TO PLUG ALL WATER LINES AND SERVICES THAT ARE NOT CONNECTED TO BUILDINGS FOR FUTURE EXTENSIONS.
10. ALL PIPE JOINTS TO HAVE MECHANICAL RESTRAINT JOINT FITTINGS.
11. ALL PIPES ARE MODELED AT OUTSIDE DIAMETER WITH INSULATION AND CARRIER PIPE, UNLESS OTHERWISE NOTED.
12. CIVIL PLANS ADDRESS UTILITIES TO 5' FROM THE BUILDING. REFER TO THE MEP PLANS FROM 5' OUTSIDE THE BUILDING INTO THE BUILDING.
13. ALL UNDERGROUND PCW PIPING SHALL BE DESIGNED AND INSTALLED PER ASME B31.1 INCLUDING NONDESTRUCTIVE EXAMINATION REQUIREMENTS OF SECTION 137.8 "ALTERNATIVE TO HYDROSTATIC AND PNEUMATIC TESTING". HYDROSTATIC TESTING PER SECTION 137.4 SHALL BE IMPLEMENTED ONLY WHEN THE PIPING IS CONNECTED TO AN MCP. THE INTENT IS TO AVOID ADDING WATER TO UNDERGROUND PIPING THAT WILL BE DESIGNATED AS "FUTURE". ANY UNDERGROUND RUNS THAT ARE NOT CONNECTED TO MCPS SHALL BE LEFT DRY AND BE LEFT WITH A 5 PSI NITROGEN CHARGE PER THE DETAILS INCLUDED.
14. PCW PIPES TO BE INSTALLED UNDERGROUND. PIPES ARE MODELED AS OD (OUTER DIAMETER). ROVANCO SYSTEM CONSISTS OF A 14" STEEL CARRIER PIPE WITH AN HDPE JACKETED SYSTEM. PCW PIPES ARE MODELED TO TOTAL OUTSIDE DIAMETER (OD).OD IS APPROXIMATELY 18".

SHEET NOTES

1. UTILITY CROSSING. MITIGATE PER DCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 2A-C-6501. (NOT ALL UTILITY CROSSINGS LABELED)
2. 90-DEGREE BEND WITH THRUST BLOCKING - SEE DETAIL SHEET 7/2A-C-6501.
3. UNDERGROUND PCW AND TWMU PIPING TO EXTEND ABOVE GRADE SHALL REMAIN BLIND FLANGED AND PROTECTED FROM CORROSION UNTIL ABOVE GRADE PIPING CONNECTION IS READY TO BE COMPLETED, PER DETAIL SHEET 8/2A-C-6501. REFER TO MECHANICAL BOP PACKAGE FOR ABOVE GRADE PIPING.

MATCHLINE SEE SHEET 1A-C-6313

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6301 PROCESS WATER PLAN 4/2/2026 1:43 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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ADDENDUM #1

KEYPLAN

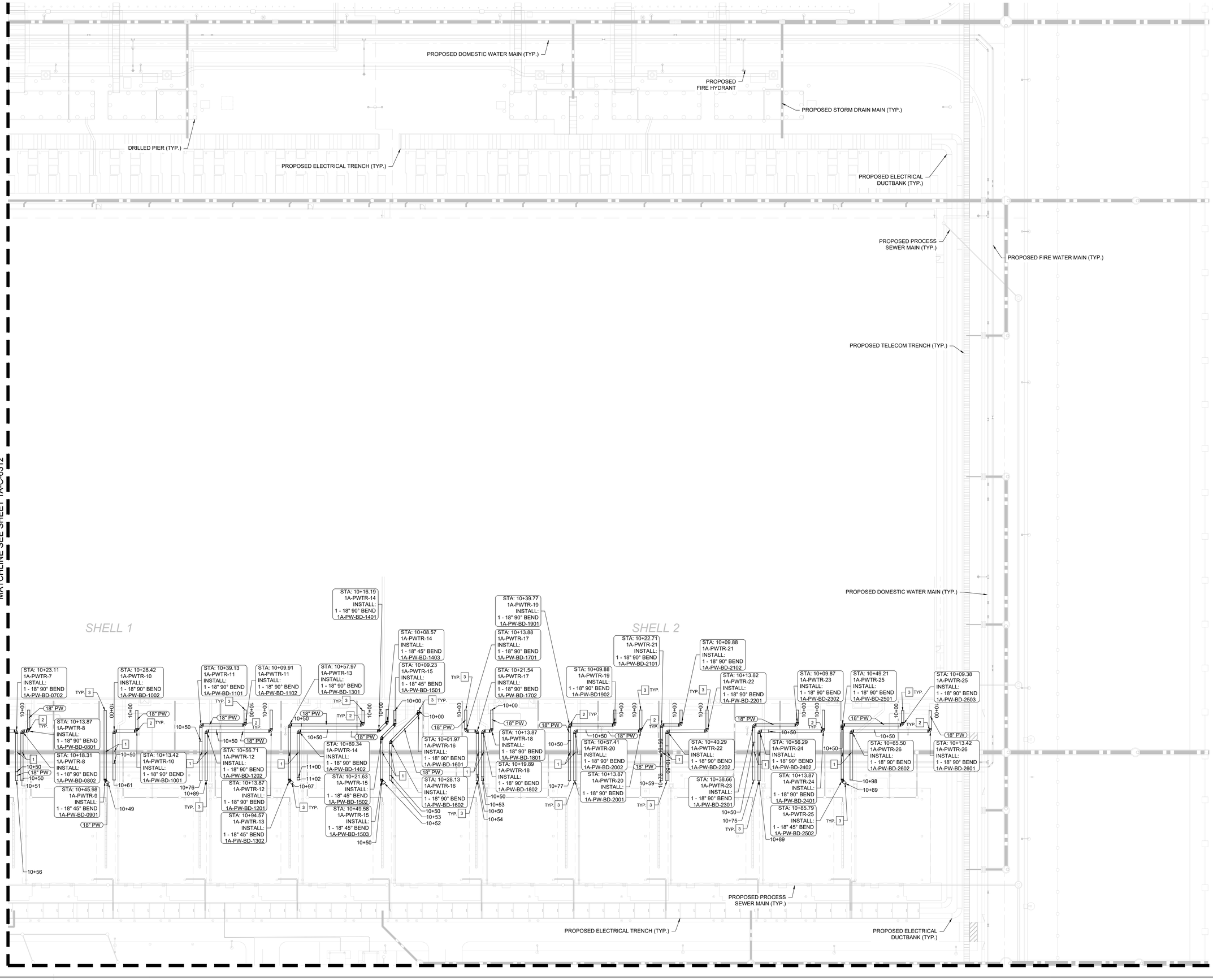
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

PROCESS WATER PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6312
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



MATCHLINE SEE SHEET 1A-C-6312

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6301 PROCESS WATER PLAN 4/2/2026 1:43 AM

LEGEND

- BEND (BD) OR DEFLECTION PER PLAN
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD) PER DETAIL 309 ON SHEET 1A-C-6501
- UTILITY SERVICE PLUG (PLUG)
- REDUCER (RC)
- PRESSURE INDICATOR VALVE (PIV)

NOTES

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7. UPON COMPLETION OF THE PCW SYSTEM, ALL PCW LINES THAT ARE PUT INTO SERVICE SHALL BE PRESSURE TESTED AND FLUSHED IN ACCORDANCE WIH DRAWINGS 2A-M-508MY AND 2A-M-516MY.
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11. ALL PIPES ARE MODELED AT OUTSIDE DIAMETER WITH INSULATION AND CARRIER PIPE, UNLESS OTHERWISE NOTED.
12. CIVIL PLANS ADDRESS UTILITIES TO 5' FROM THE BUILDING. REFER TO THE MEP PLANS FROM 5' OUTSIDE THE BUILDING INTO THE BUILDING.
13. ALL UNDERGROUND PCW PIPING SHALL BE DESIGNED AND INSTALLED PER ASME B31.1 INCLUDING NONDESTRUCTIVE EXAMINATION REQUIREMENTS OF SECTION 137.8 "ALTERNATIVE TO HYDROSTATIC AND PNEUMATIC TESTING". HYDROSTATIC TESTING PER SECTION 137.4 SHALL BE IMPLEMENTED ONLY WHEN THE PIPING IS CONNECTED TO AN MCP. THE INTENT IS TO AVOID ADDING WATER TO UNDERGROUND PIPING THAT WILL BE DESIGNATED AS "FUTURE". ANY UNDERGROUND RUNS THAT ARE NOT CONNECTED TO MCPS SHALL BE LEFT DRY AND BE LEFT WITH A 5 PSI NITROGEN CHARGE PER THE DETAILS INCLUDED.
14. PCW PIPES TO BE INSTALLED UNDERGROUND. PIPES ARE MODELED AS OD (OUTER DIAMETER). ROVANCO SYSTEM CONSISTS OF A 14" STEEL CARRIER PIPE WITH AN HDPE JACKETED SYSTEM. PCW PIPES ARE MODELED TO TOTAL OUTSIDE DIAMETER (OD).OD IS APPROXIMATELY 18".

SHEET NOTES

[1] UTILITY CROSSING. MITIGATE PER DCWS GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION. SEE UTILITY CROSSING DETAIL ON SHEET 2A-C-6501. (NOT ALL UTILITY CROSSINGS LABELED)

[2] 90-DEGREE BEND WITH THRUST BLOCKING - SEE DETAIL SHEET 7/2A-C-6501.

[3] UNDERGROUND PCW AND TWMU PIPING TO EXTEND ABOVE GRADE SHALL REMAIN BLIND FLANGED AND PROTECTED FROM CORROSION UNTIL ABOVE GRADE PIPING CONNECTION IS READY TO BE COMPLETED, PER DETAIL SHEET 8/2A-C-6501. REFER TO MECHANICAL BOP PACKAGE FOR ABOVE GRADE PIPING.

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LICENSED PROFESSIONAL ENGINEER DEAN RANDALL OKLAHOMA 04/09/2026

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PROJ. NO.: 10434535

PROCESS WATER PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6313

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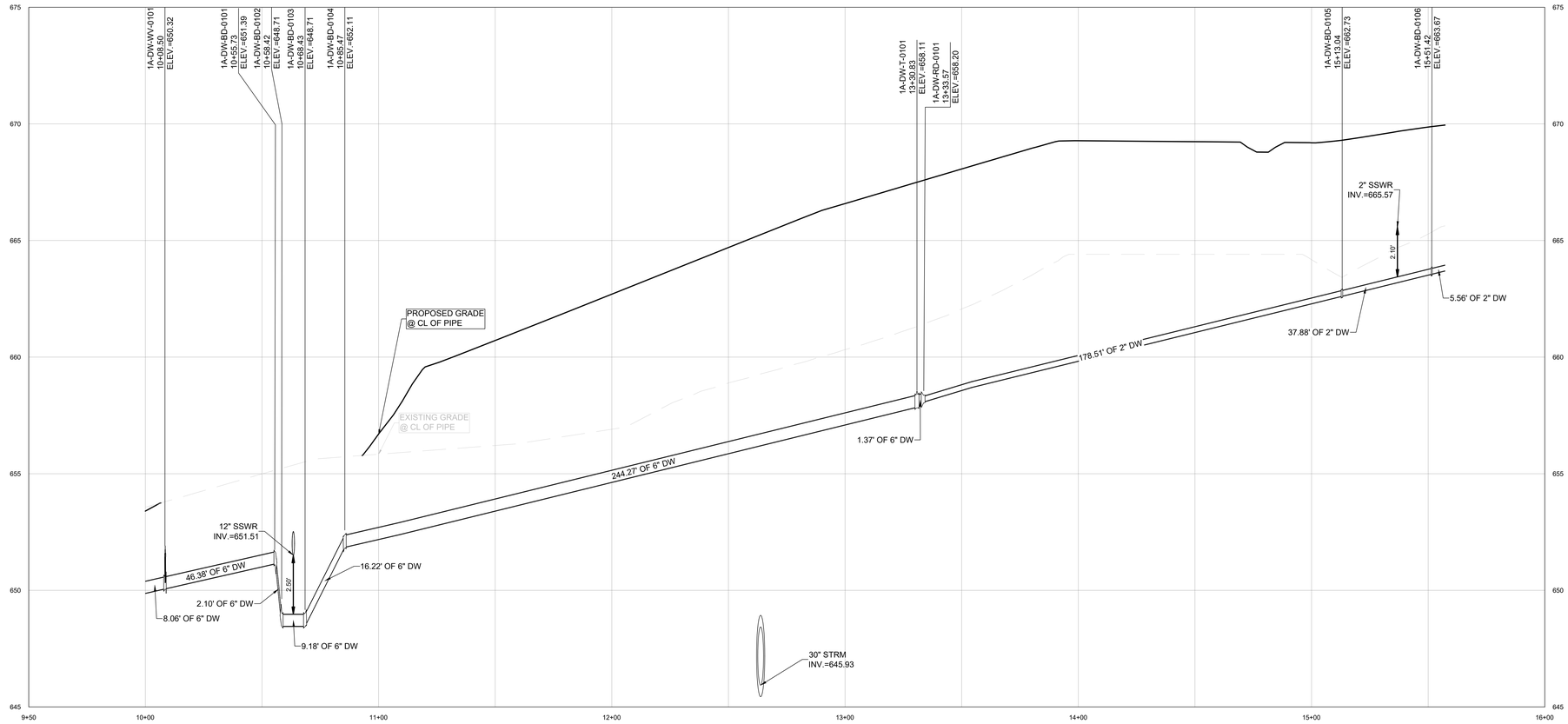

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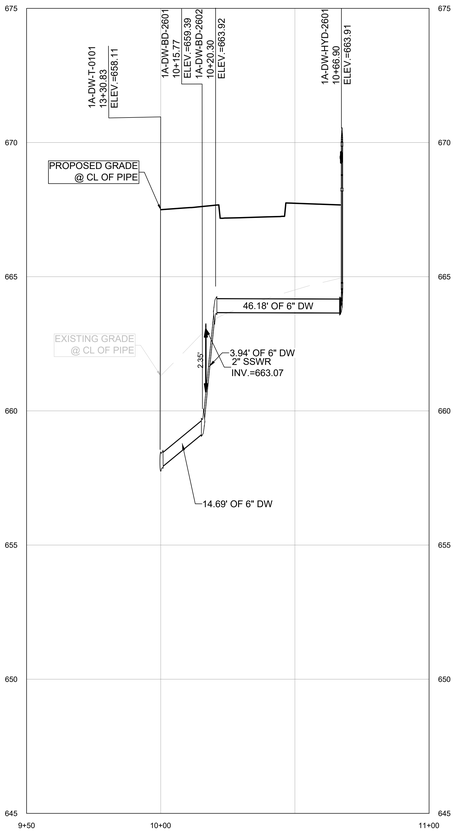

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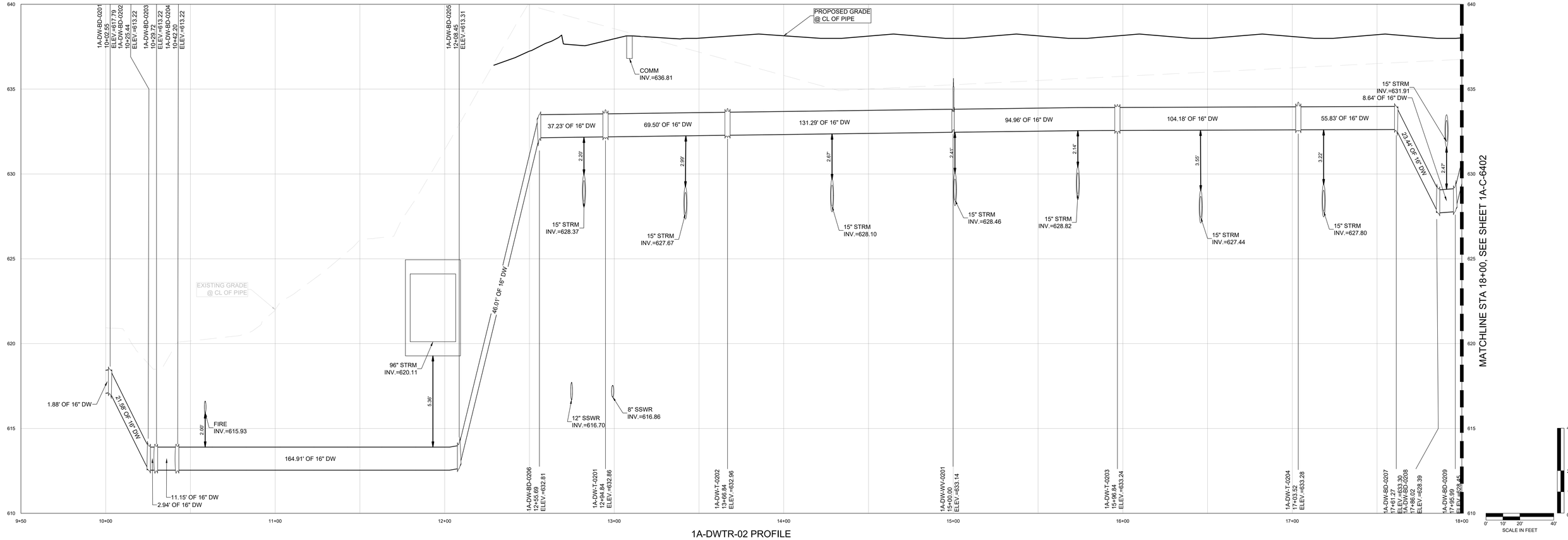

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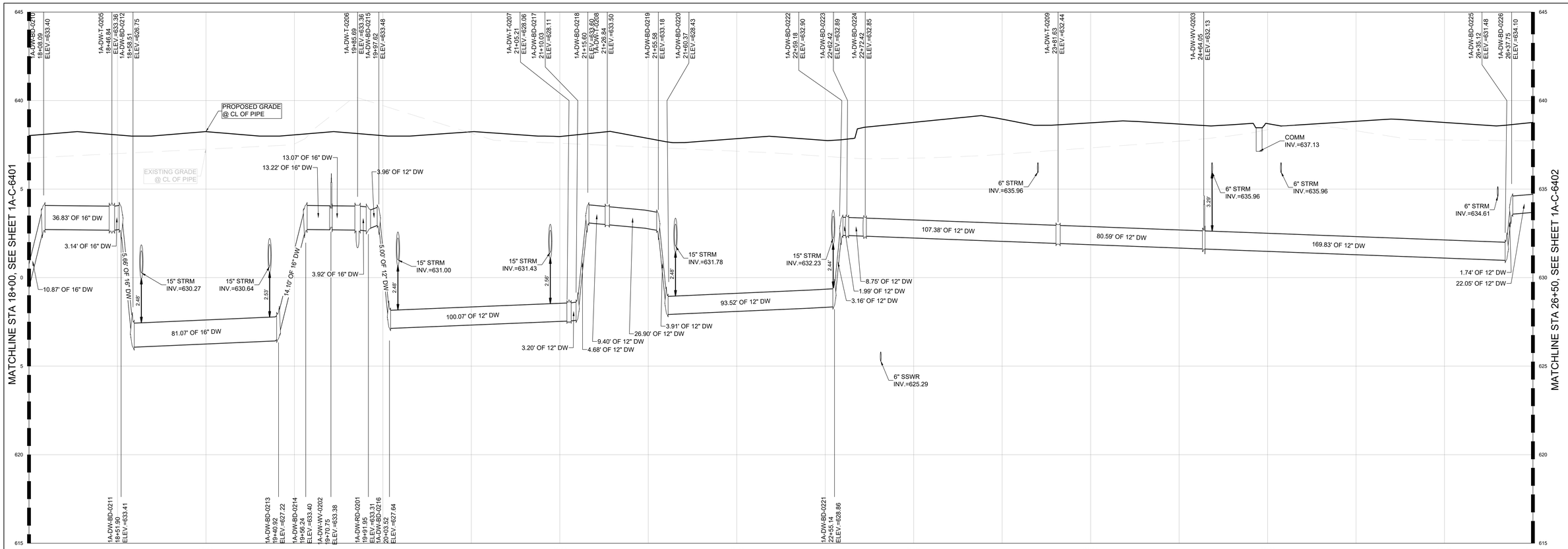

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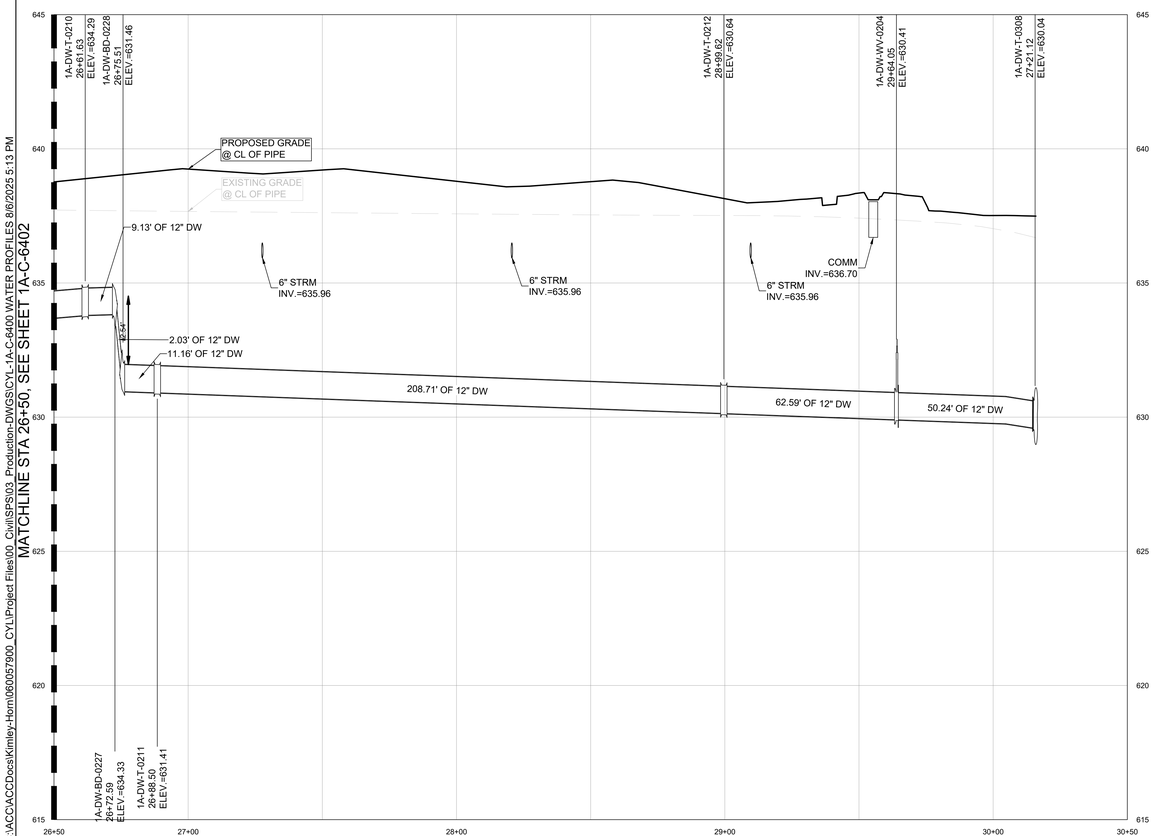

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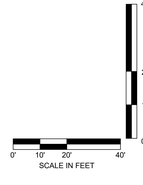

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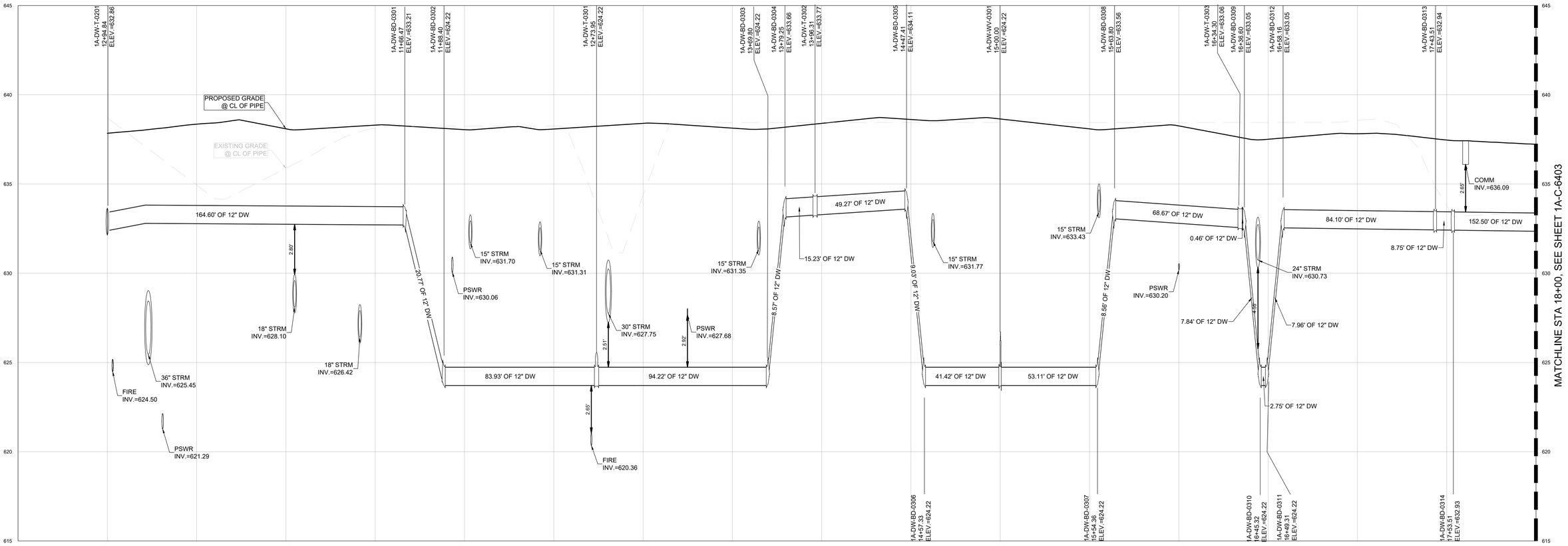

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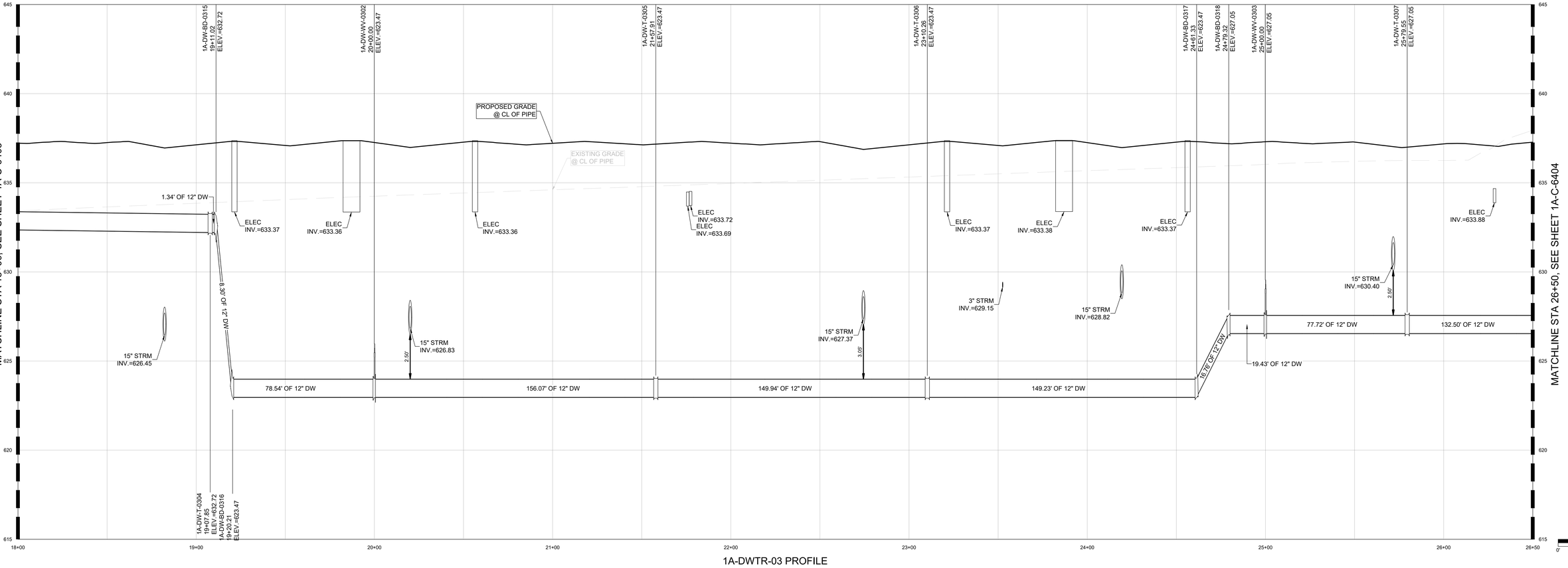

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WATER PROFILES

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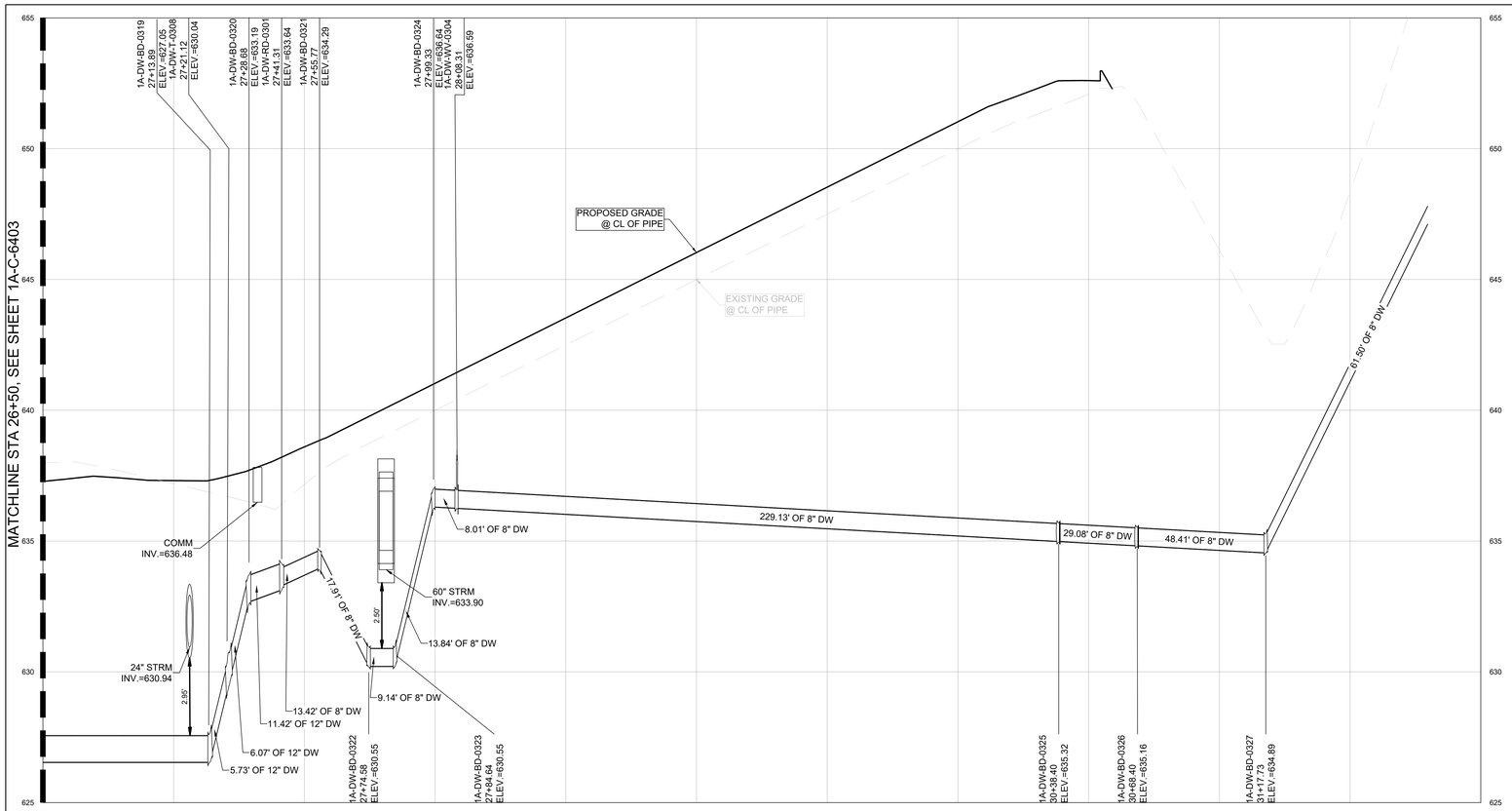

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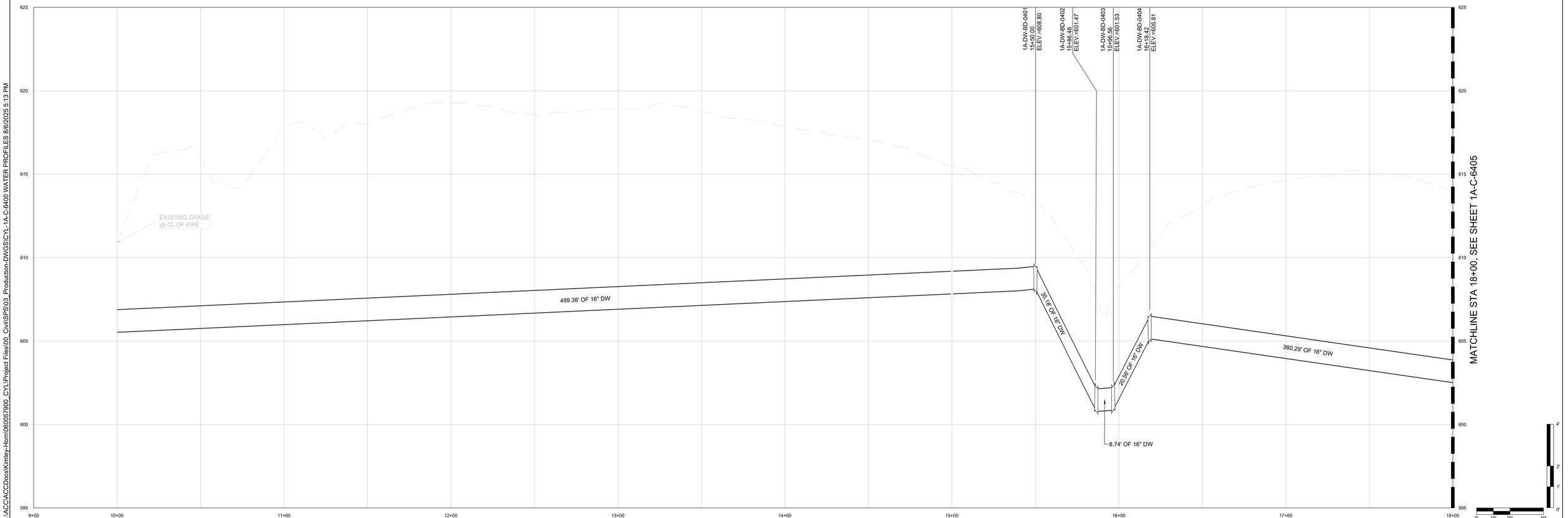

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WATER PROFILES

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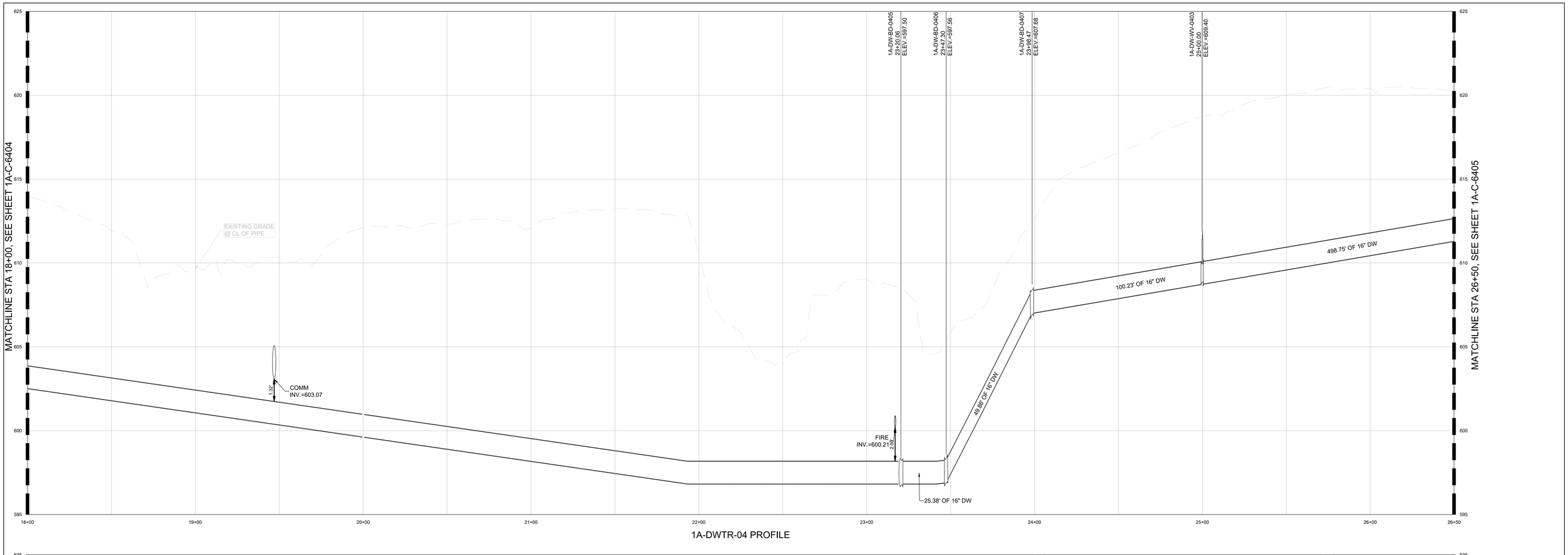

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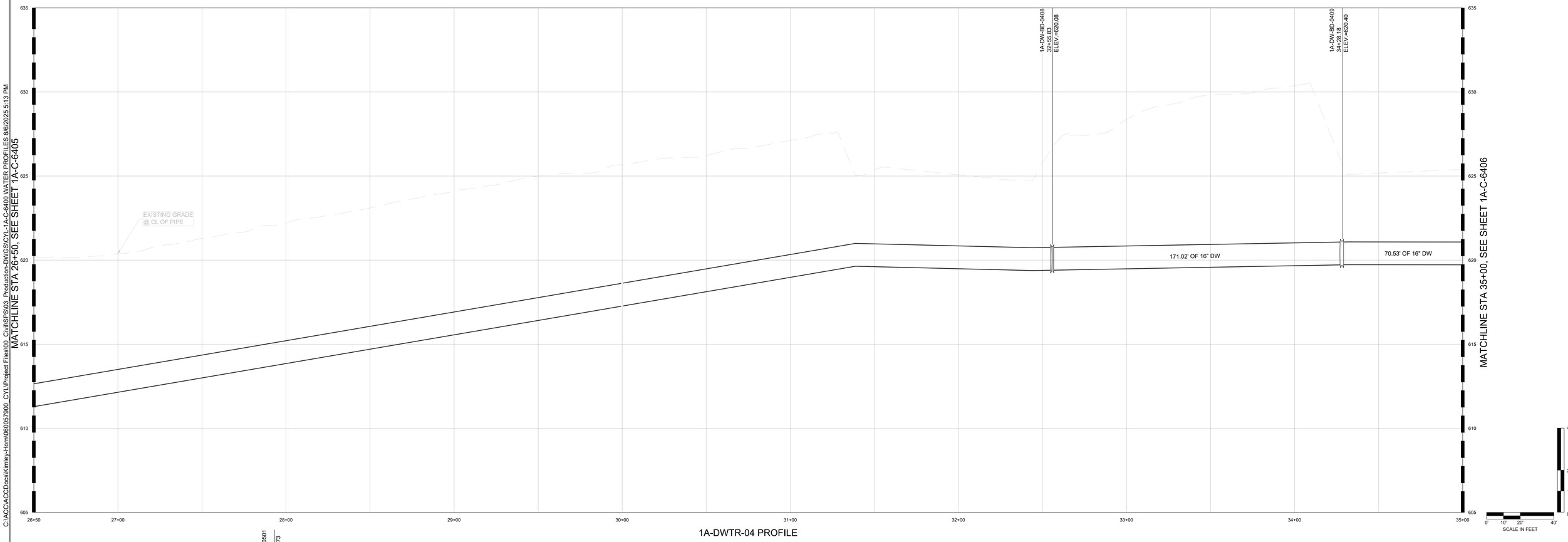

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WATER PROFILES

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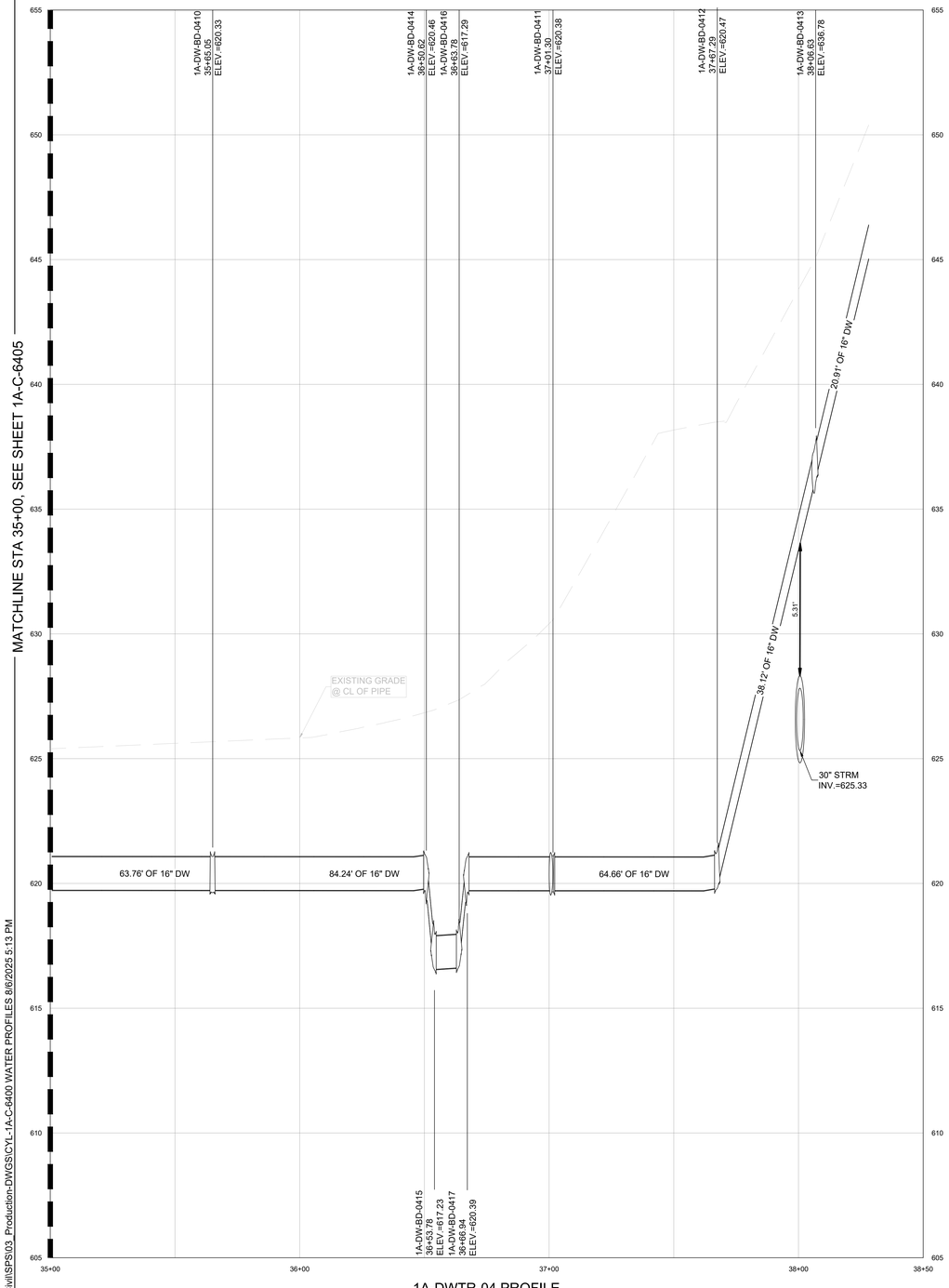

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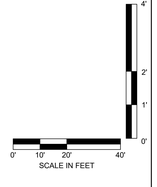

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WATER PROFILES

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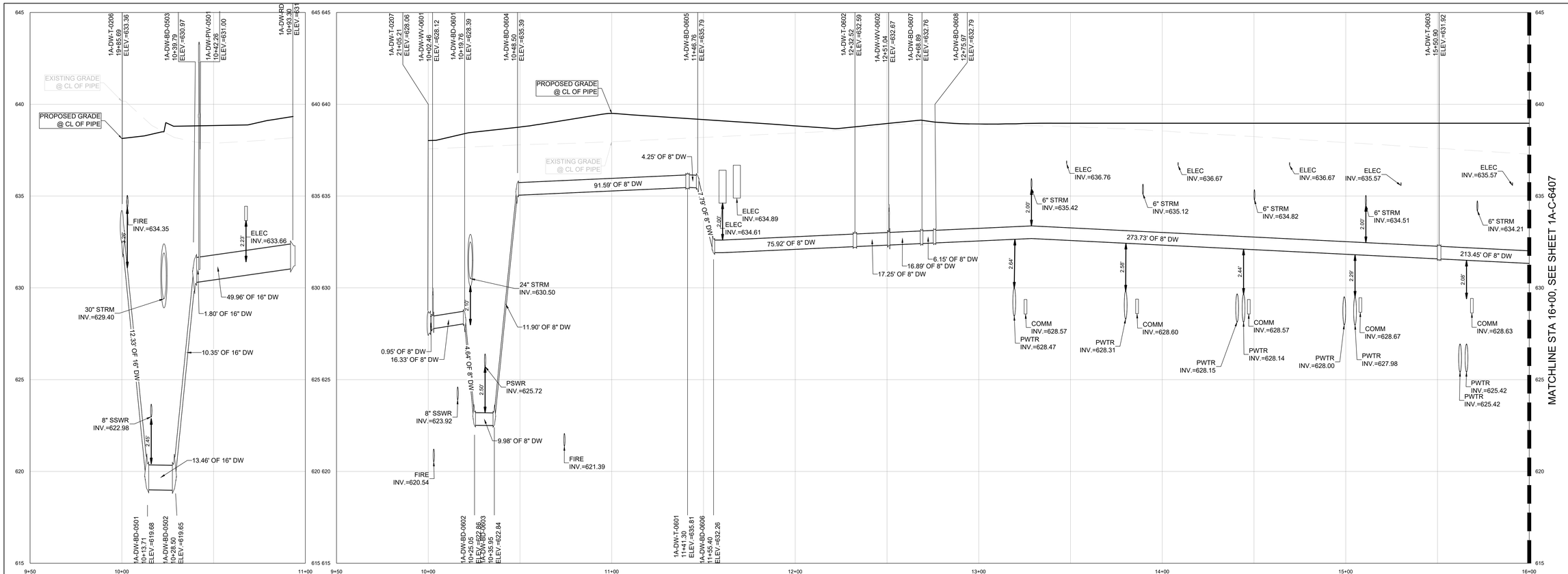

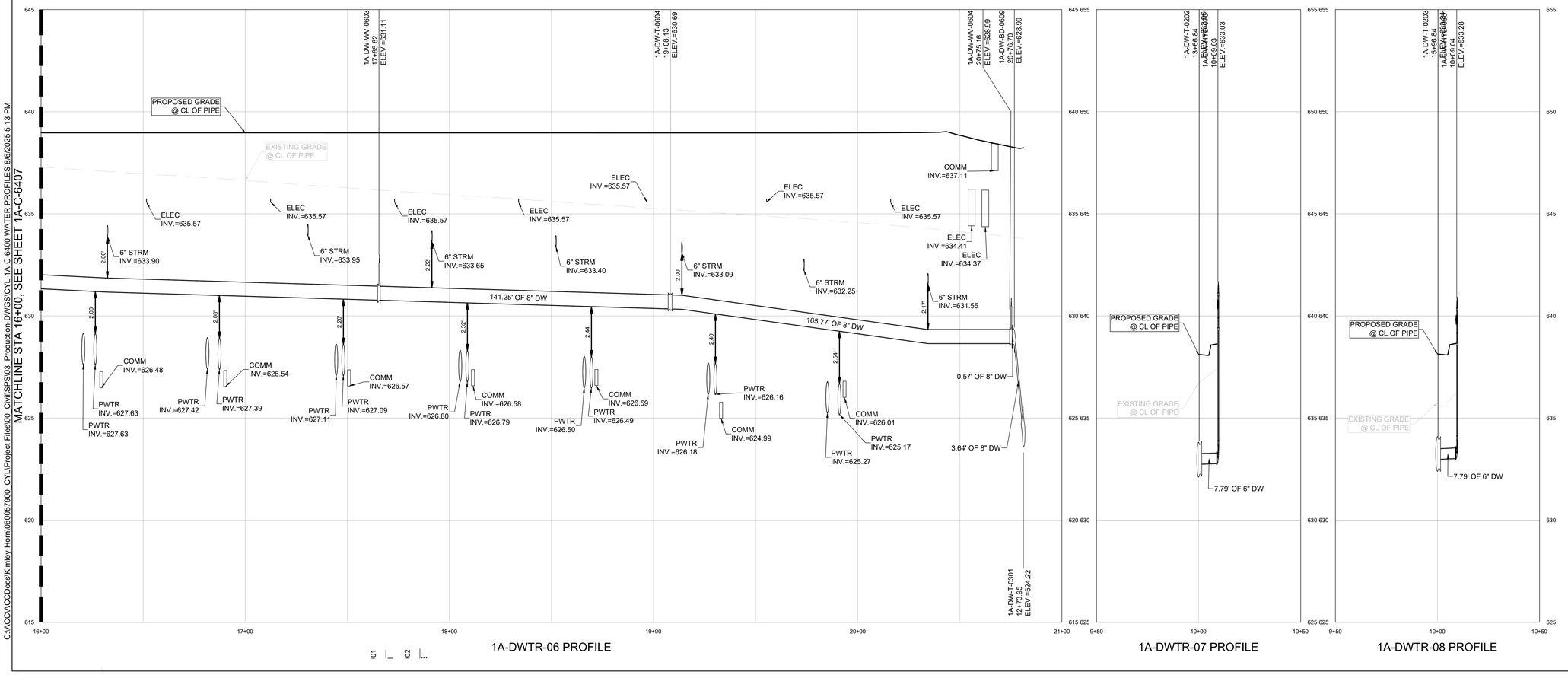

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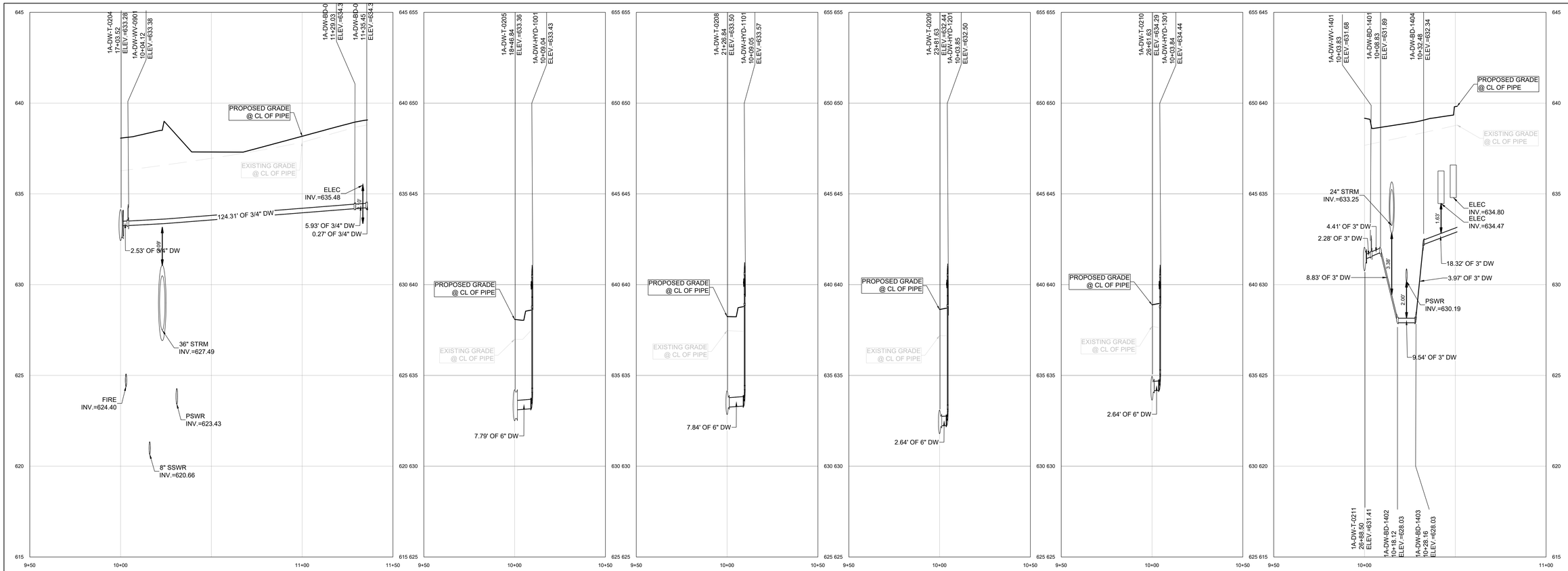

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SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6408

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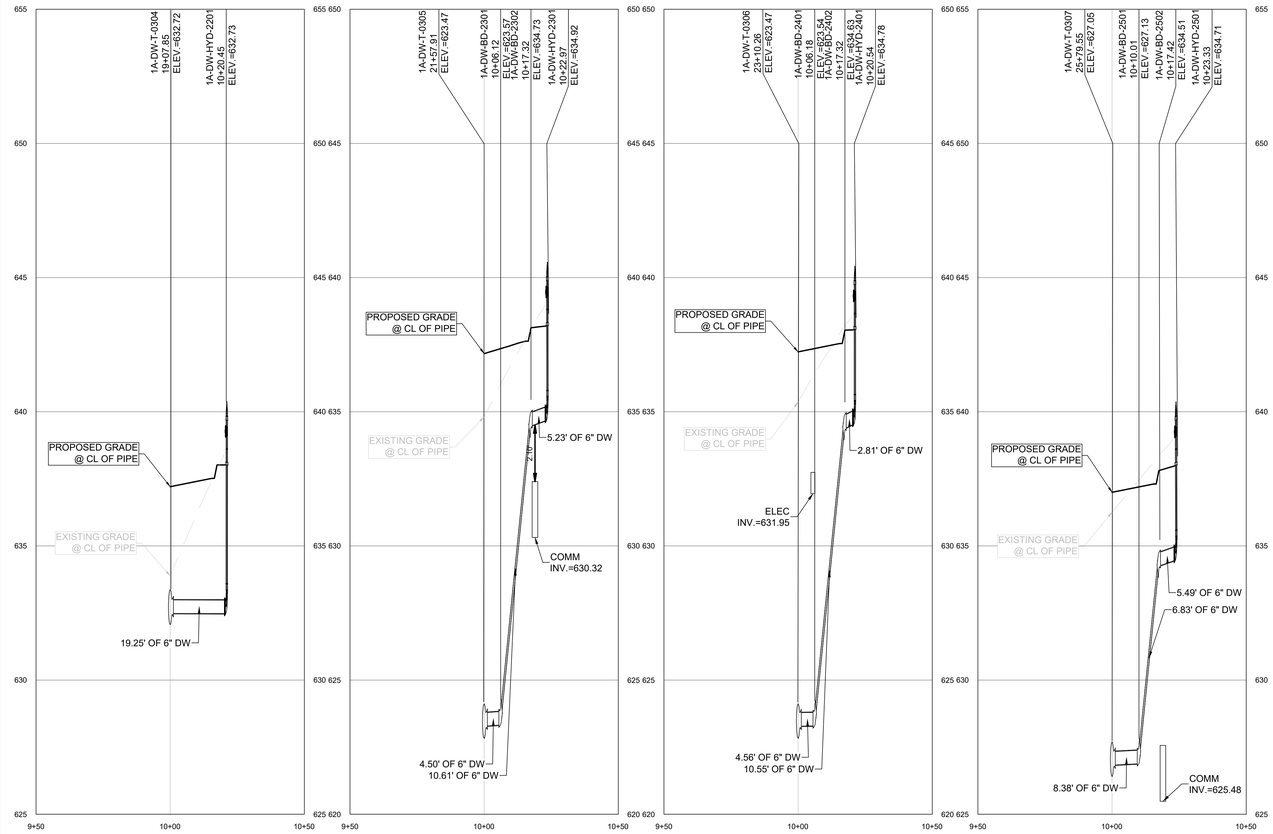

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WATER PROFILES

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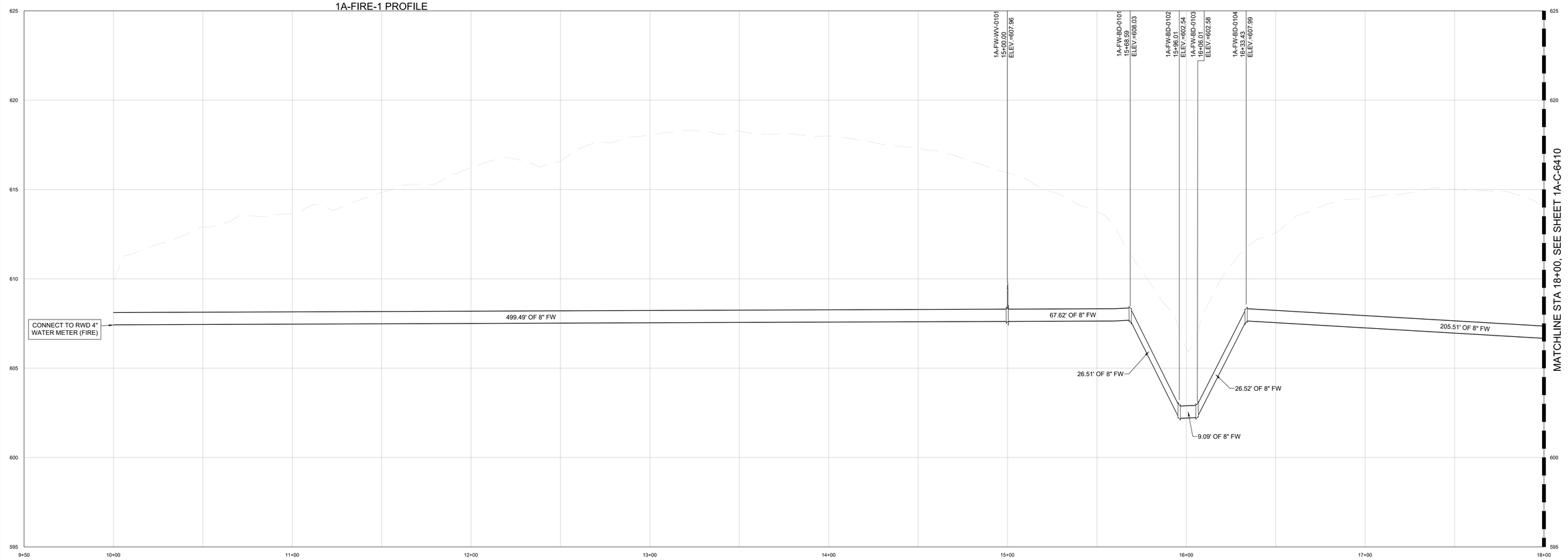

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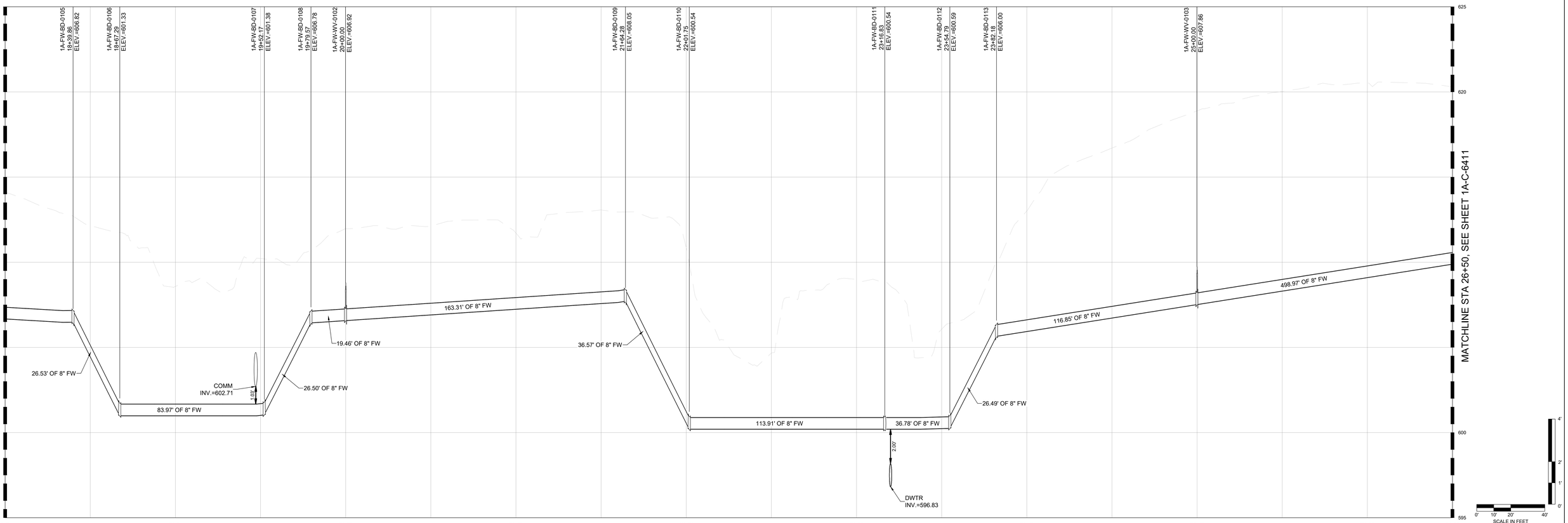

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SCALE: AS SHOWN

FIRE WATER PROFILES

SHEET NUMBER:
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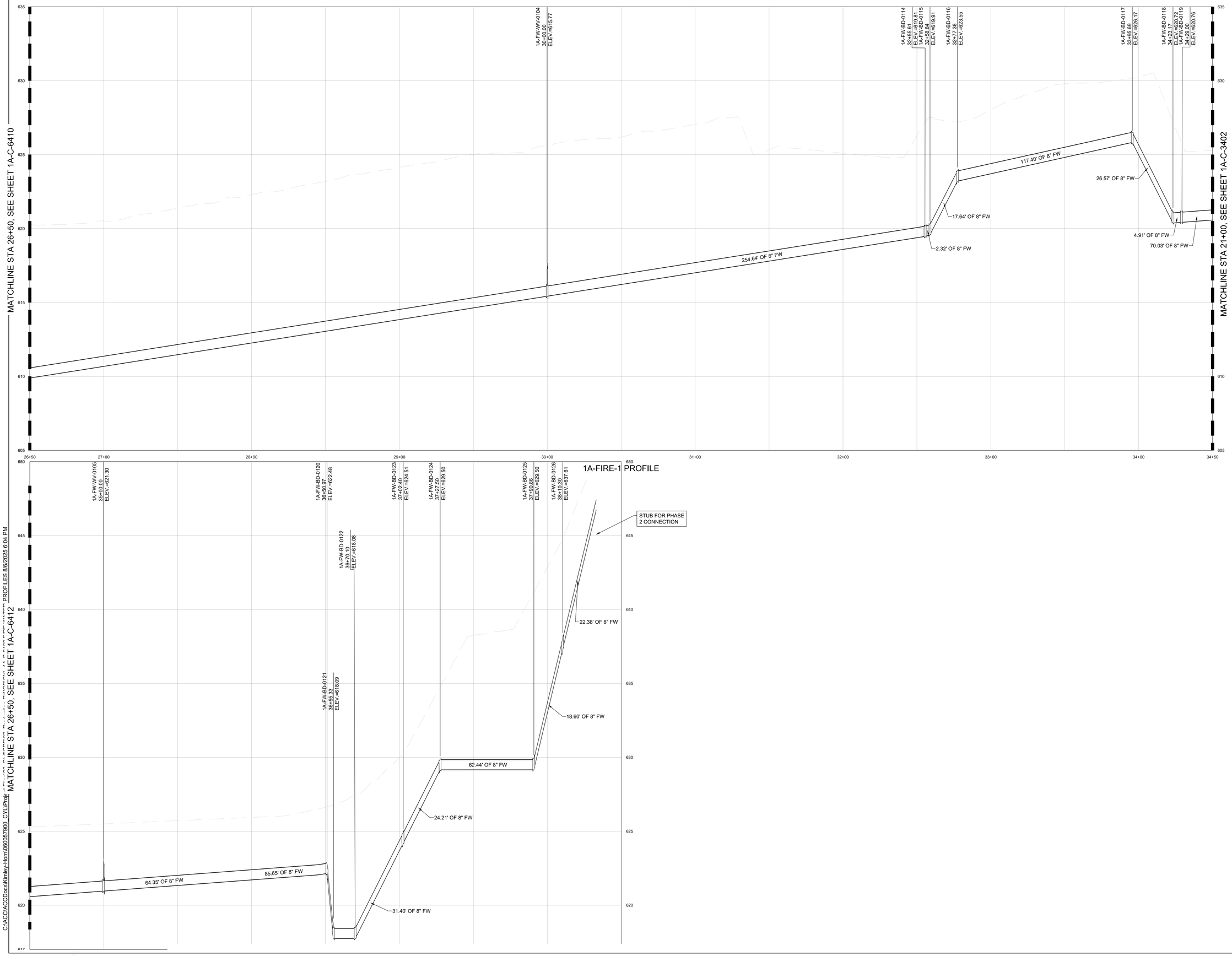

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL 32622 OKLAHOMA
04/09/2026

TRADE SECRETS
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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434535

FIRE WATER PROFILES
SCALE: AS SHOWN

SHEET NUMBER:
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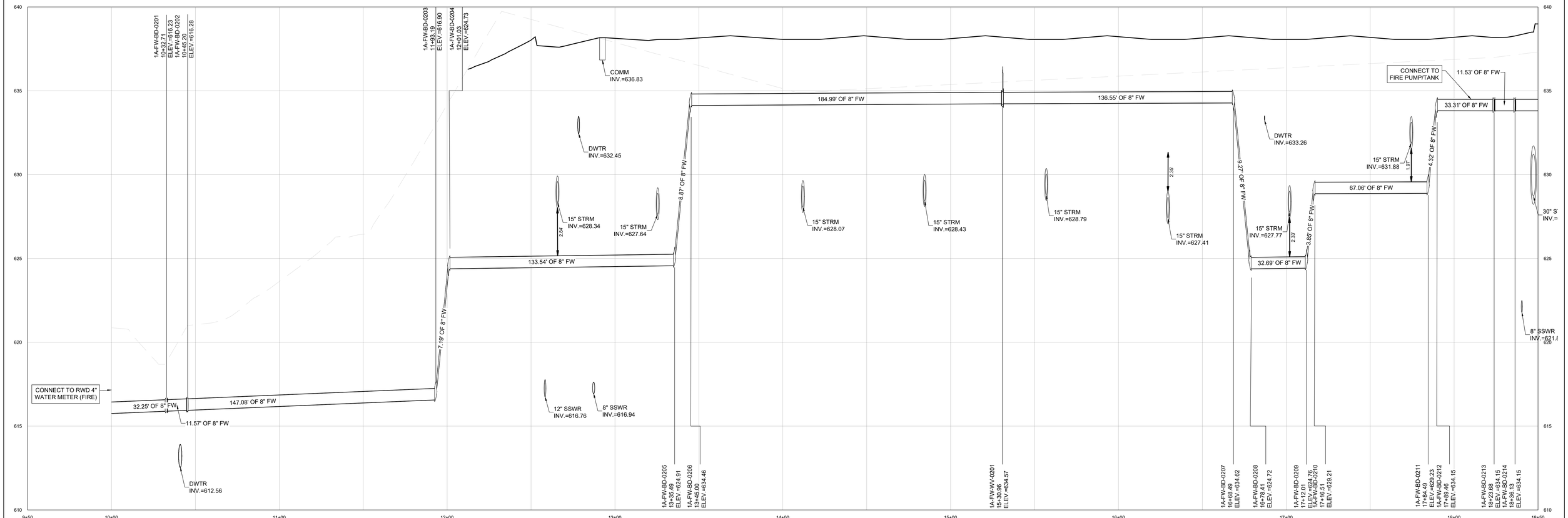

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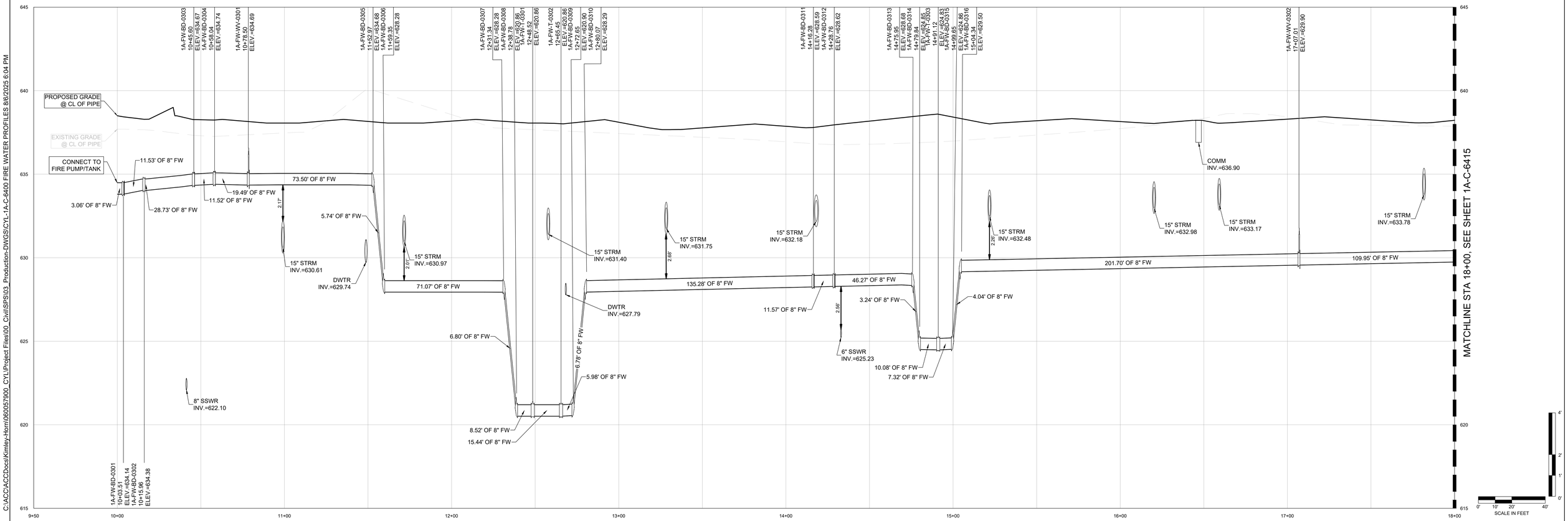

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

FIRE WATER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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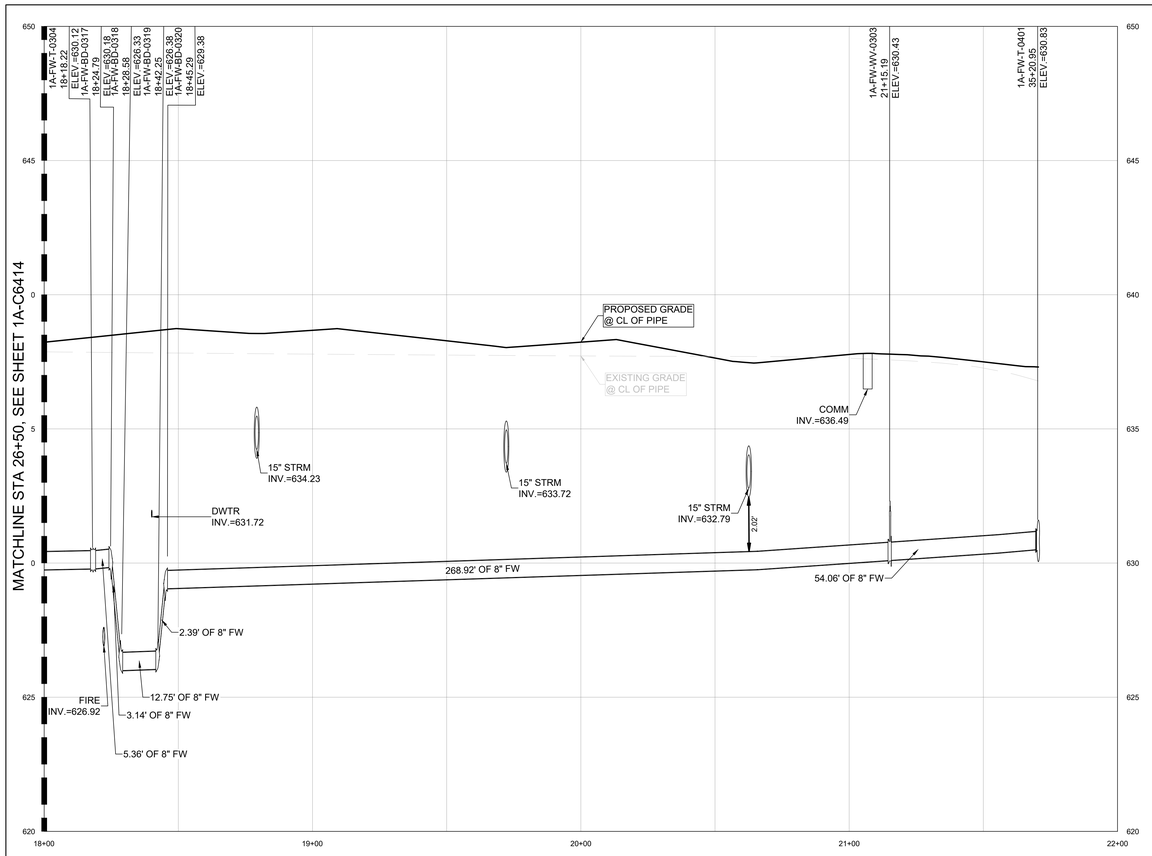

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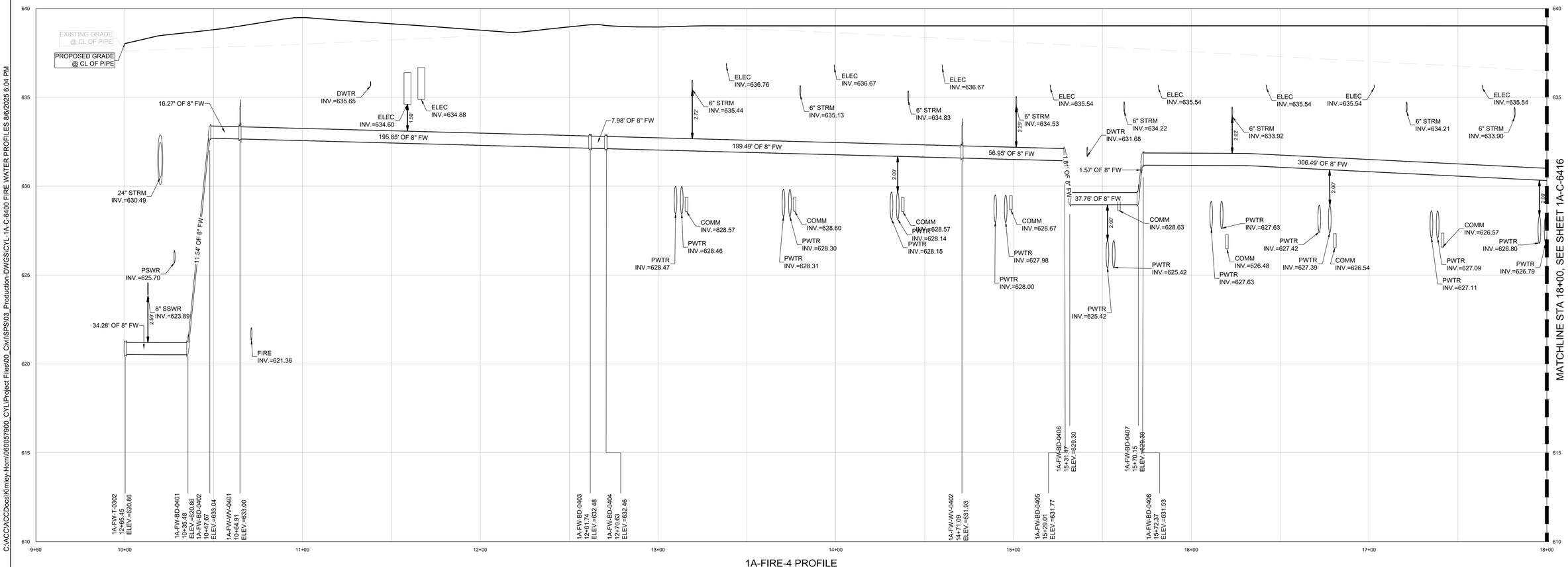

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
#32211
OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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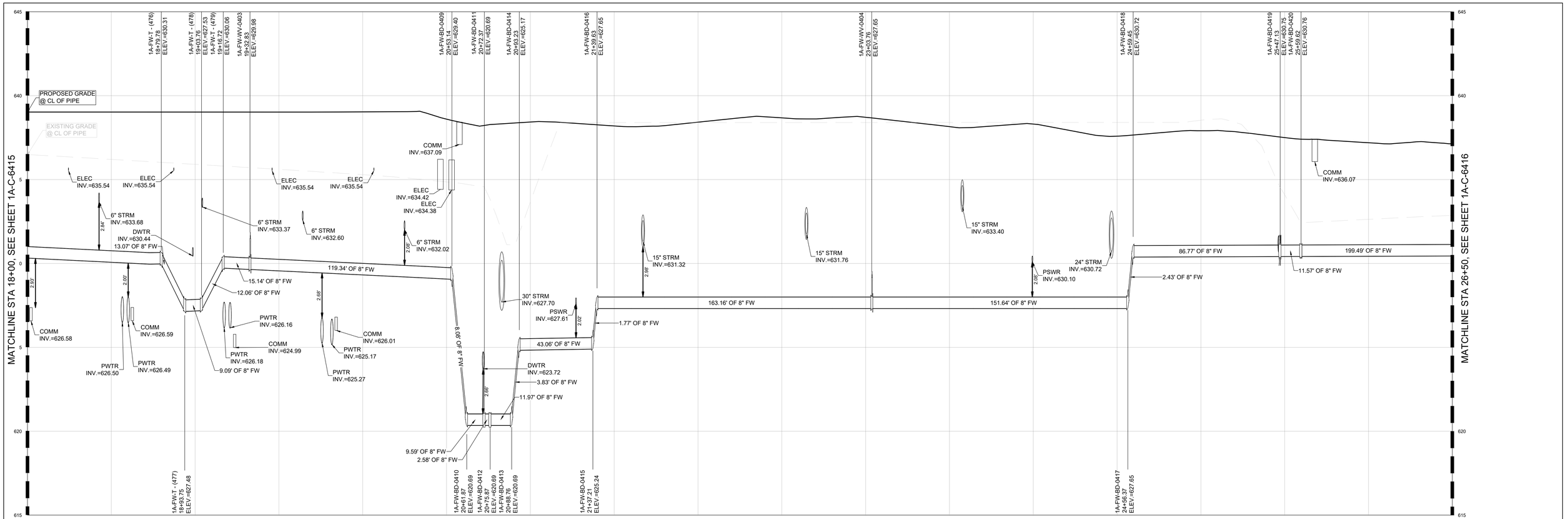

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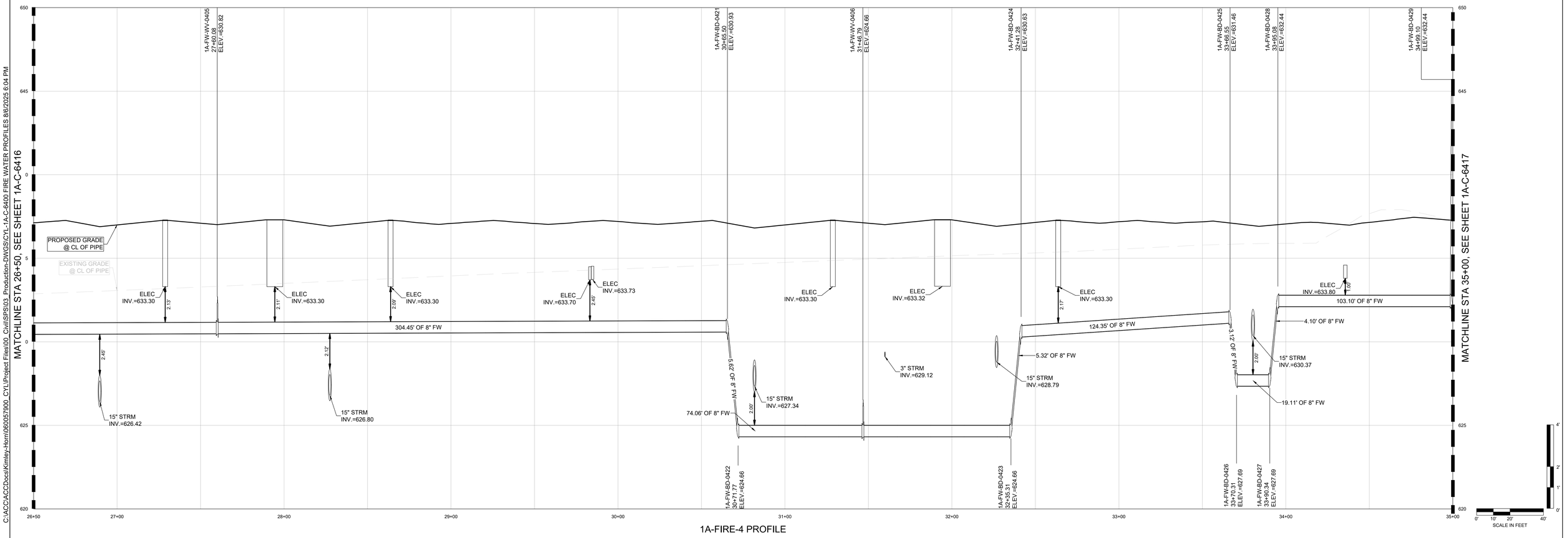

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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KEYPLAN

REVISIONS		
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

SCALE: AS SHOWN

FIRE WATER PROFILES

SHEET NUMBER:
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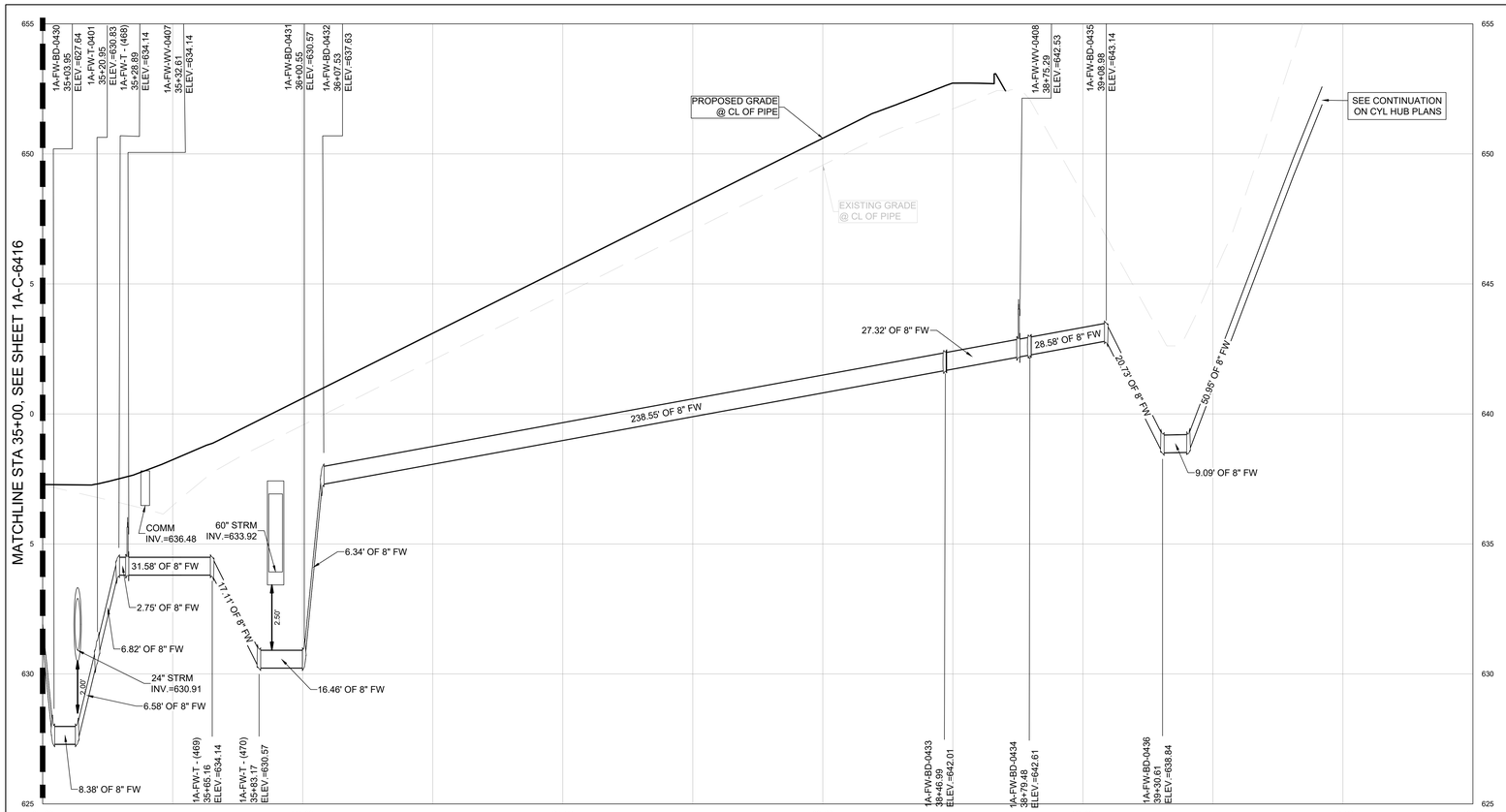

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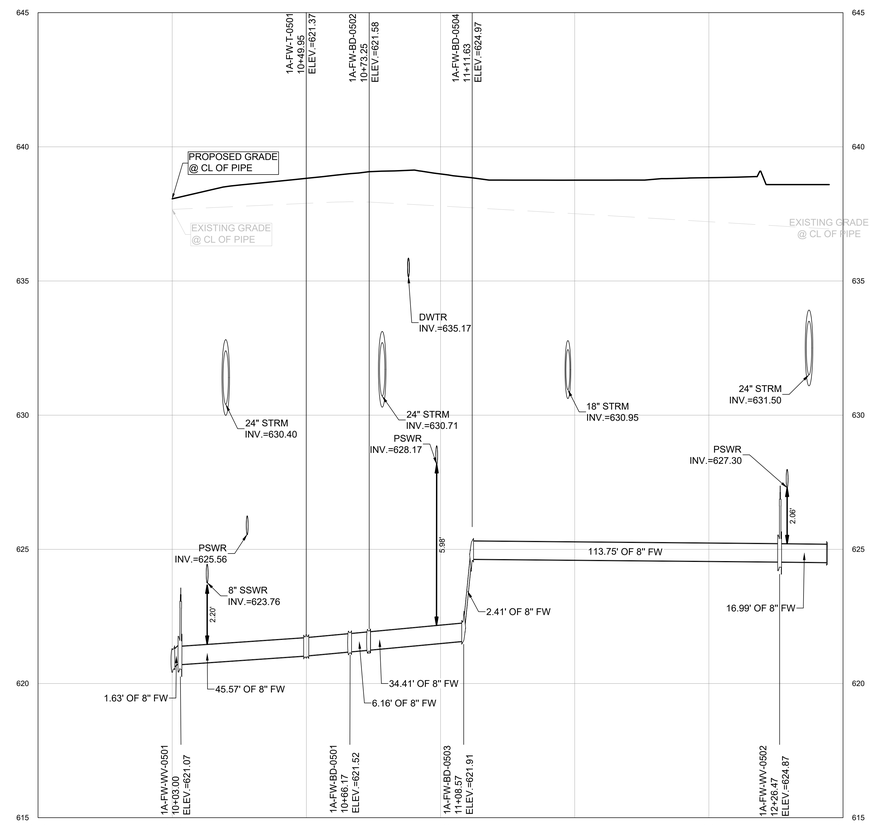

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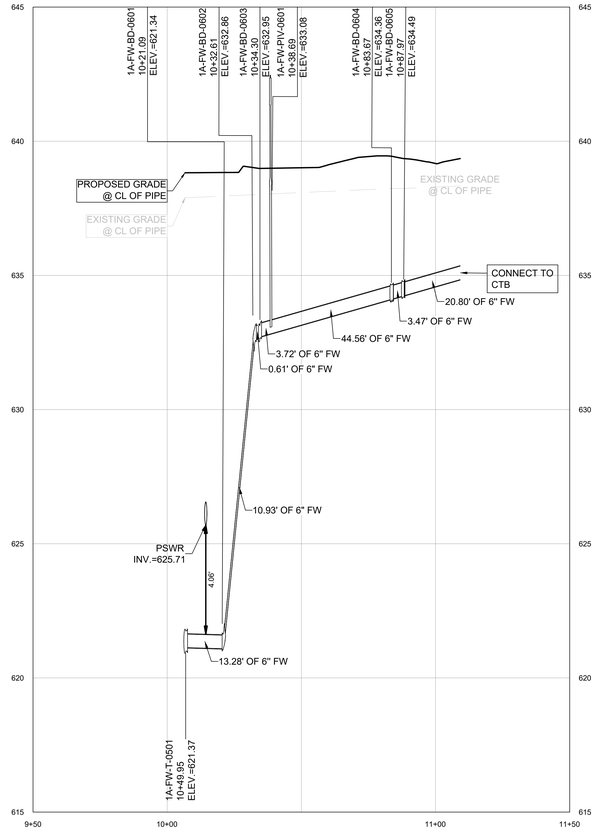

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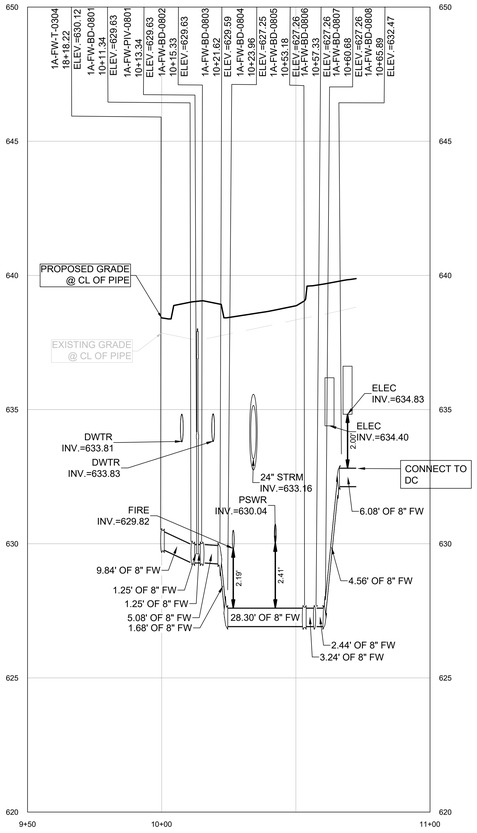

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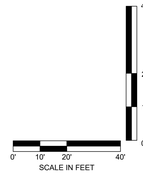

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DEVIN RANDALL FREE — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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APPRV'D: DGR

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

FIRE WATER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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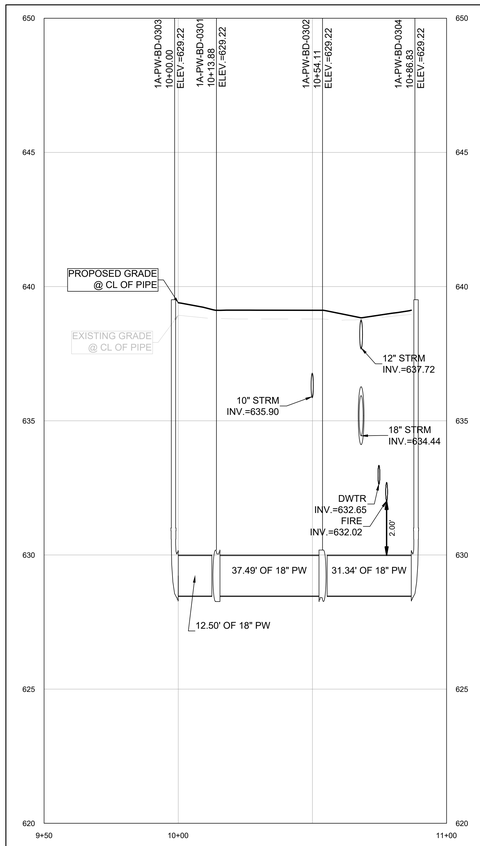

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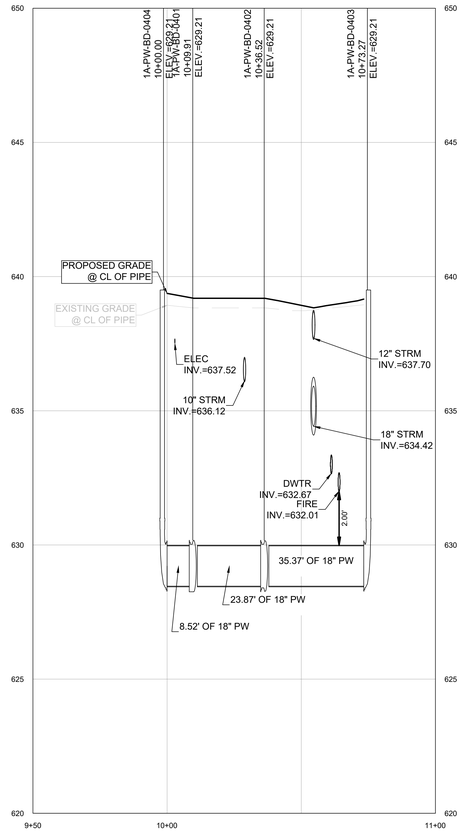

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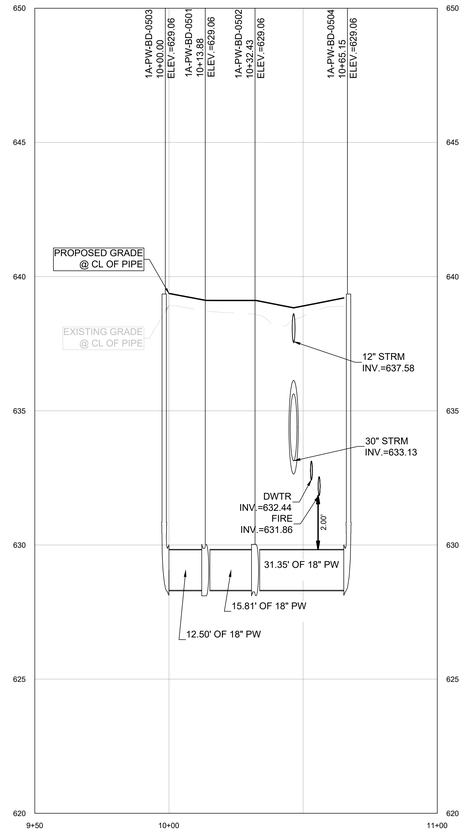

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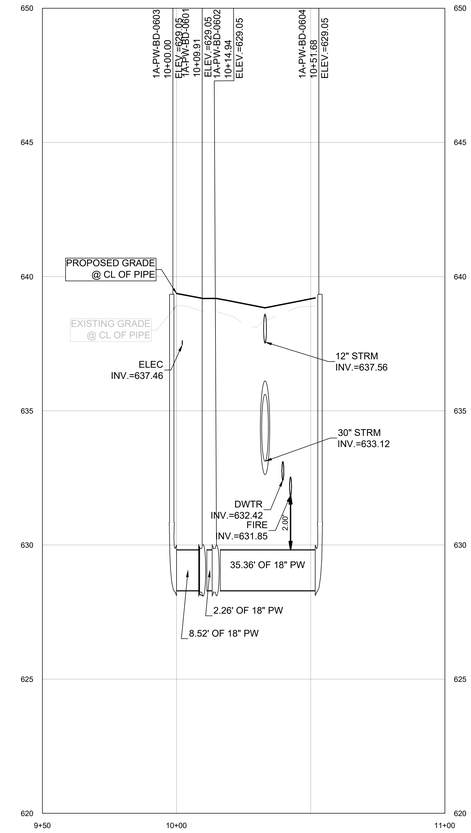

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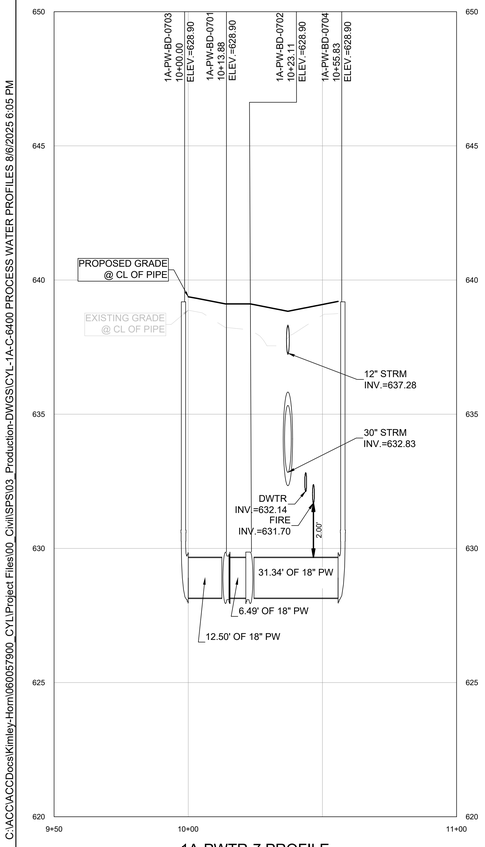

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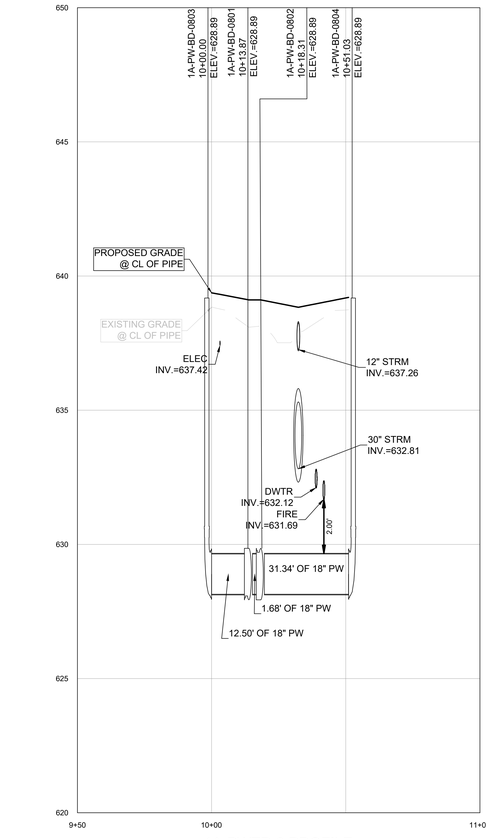

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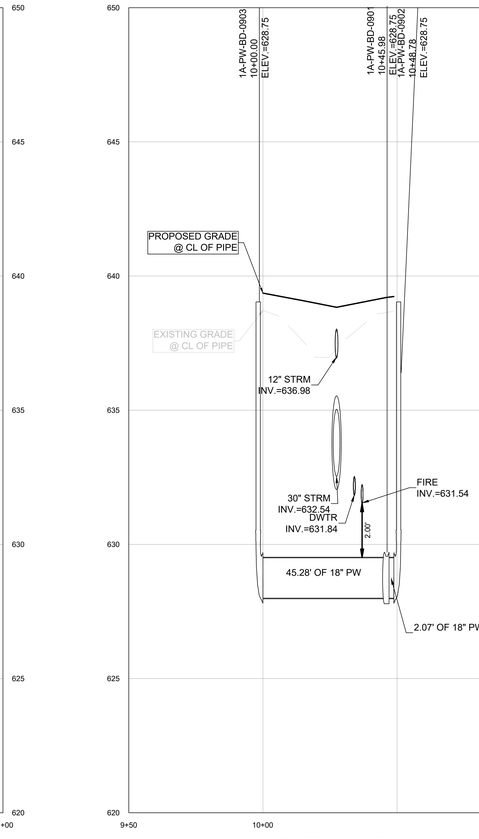

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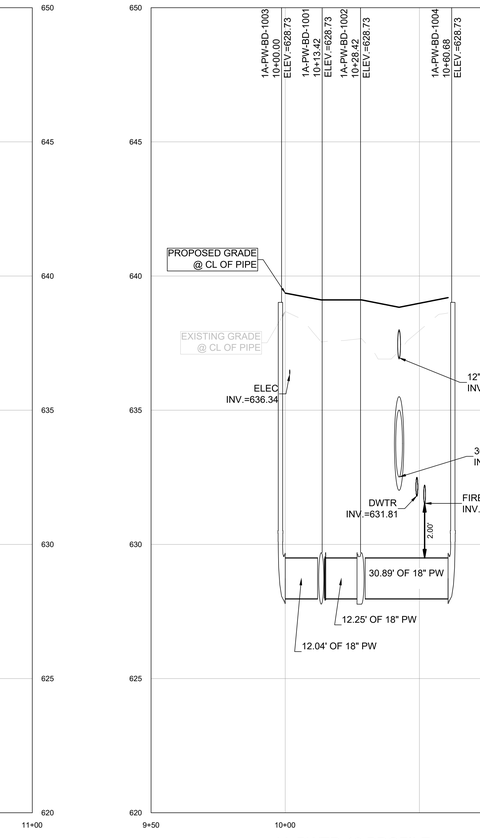

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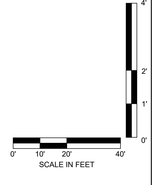

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

PROCESS WATER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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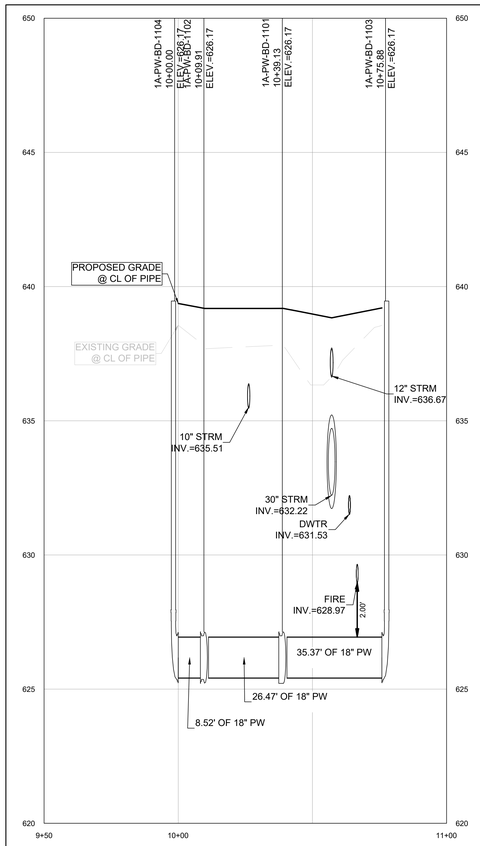

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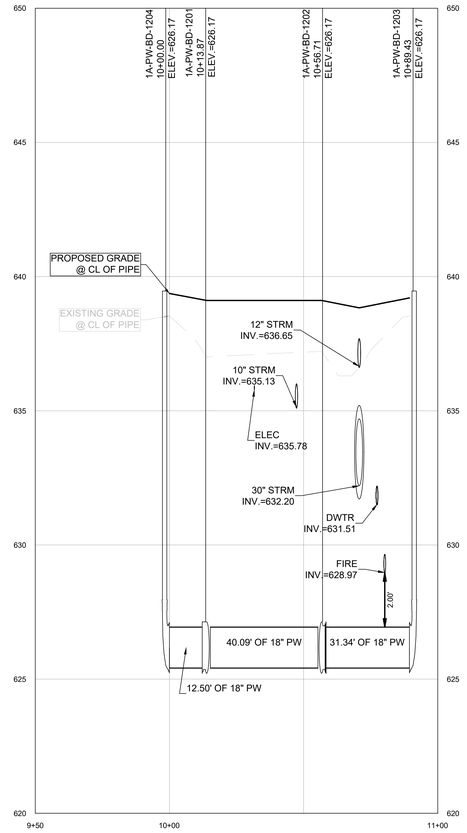

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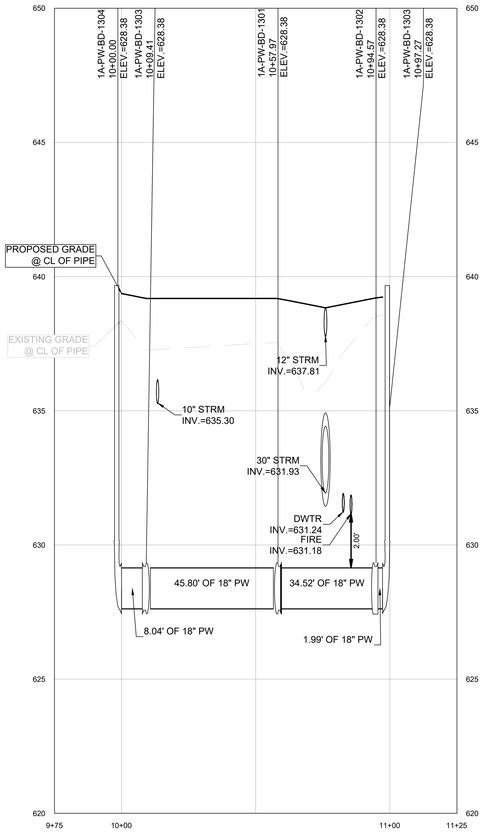

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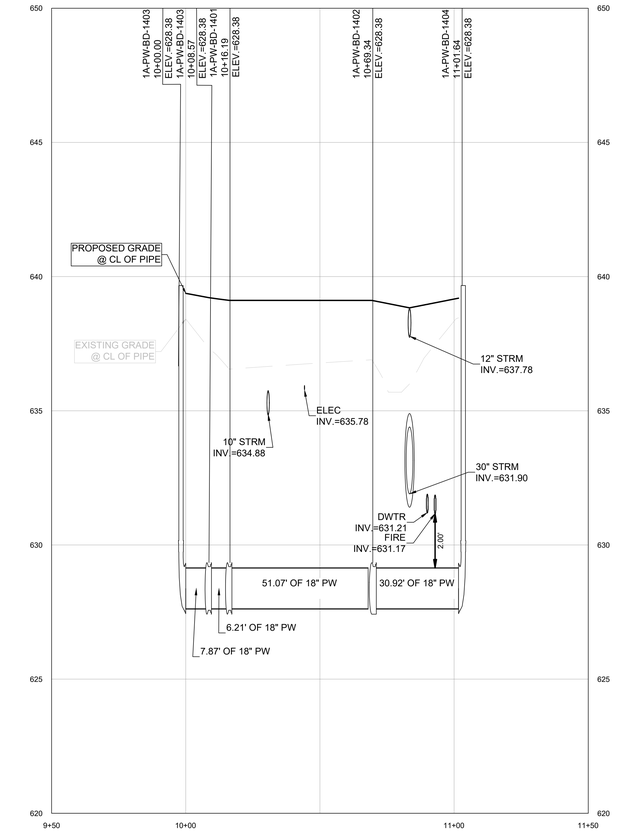

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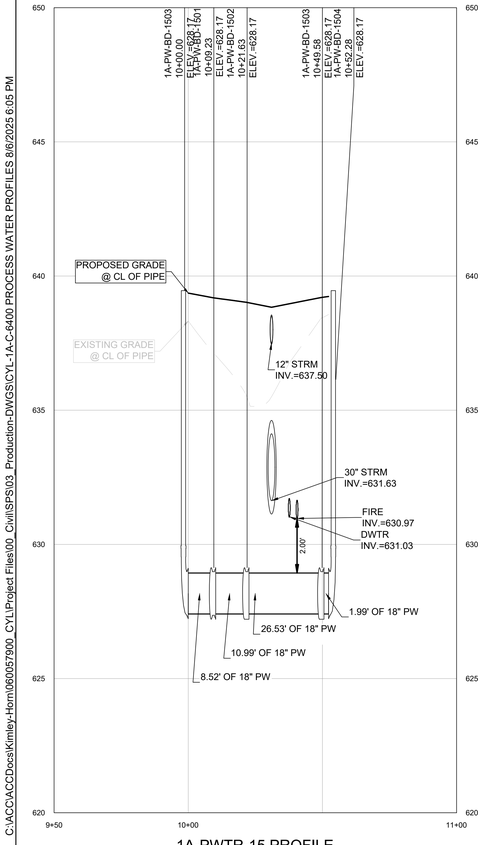

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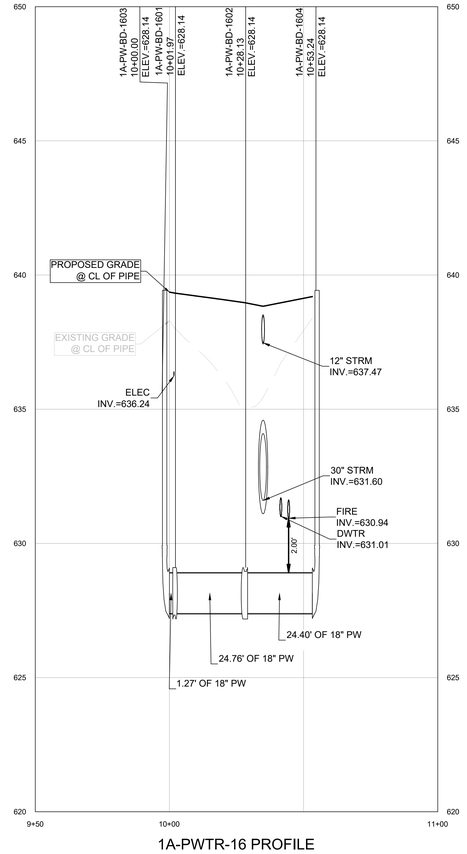

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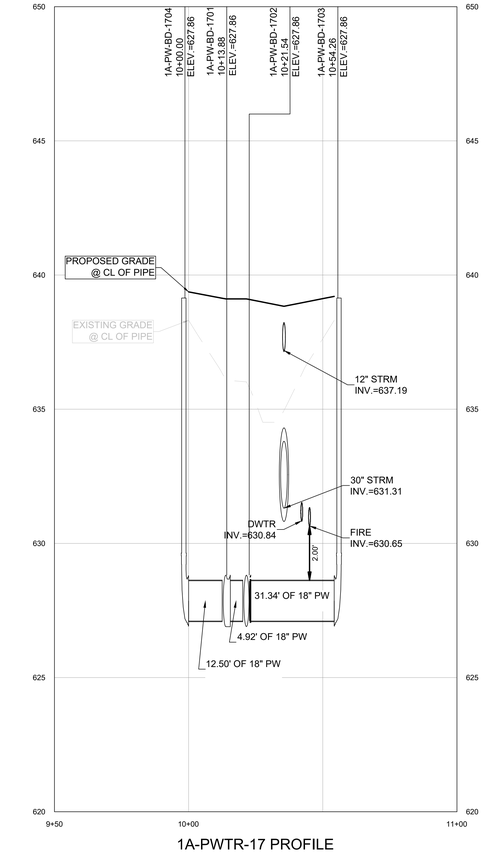

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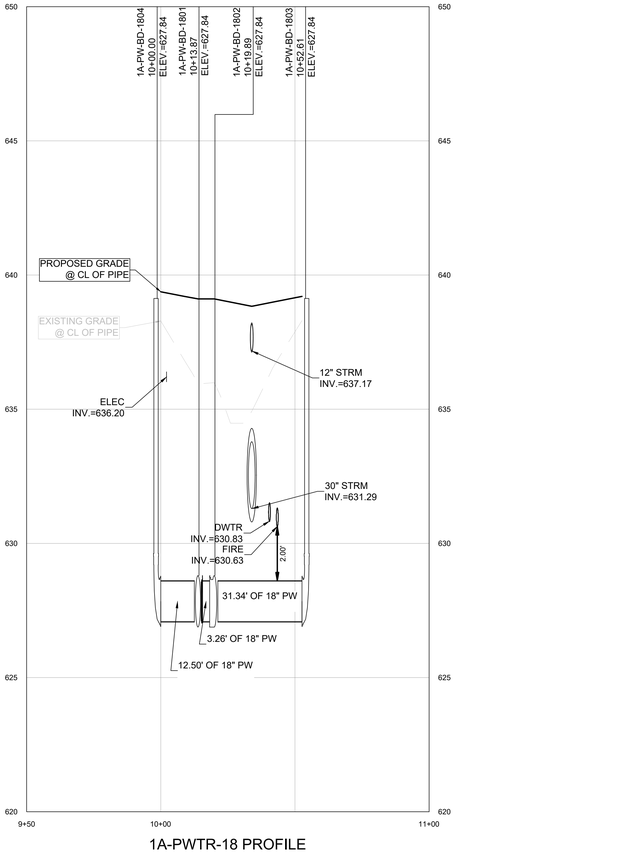

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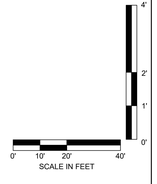

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

PROCESS WATER PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6417

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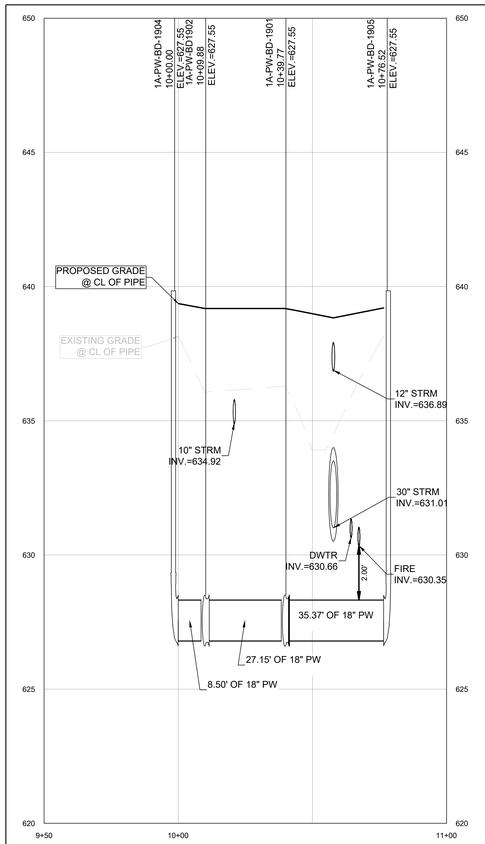

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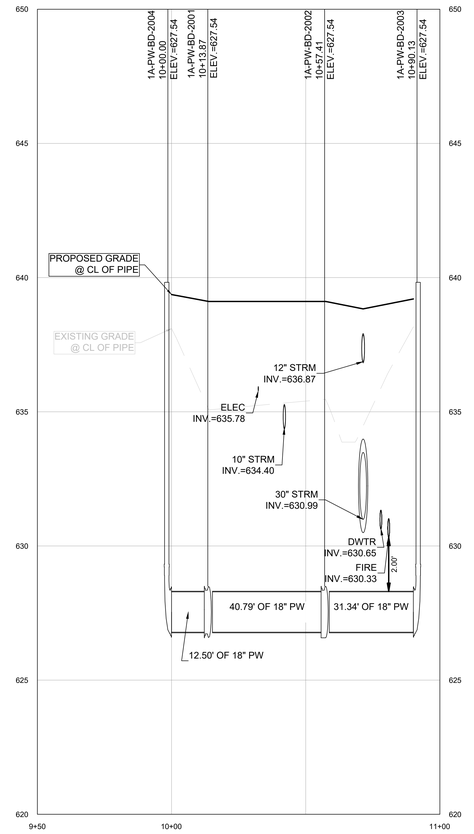

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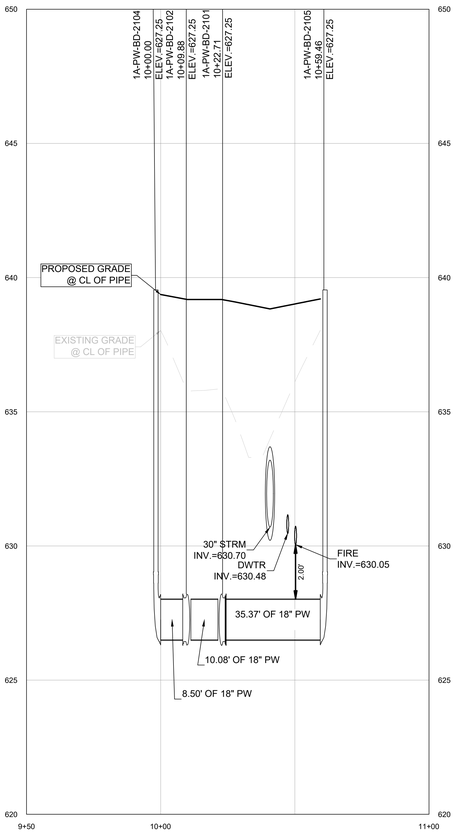

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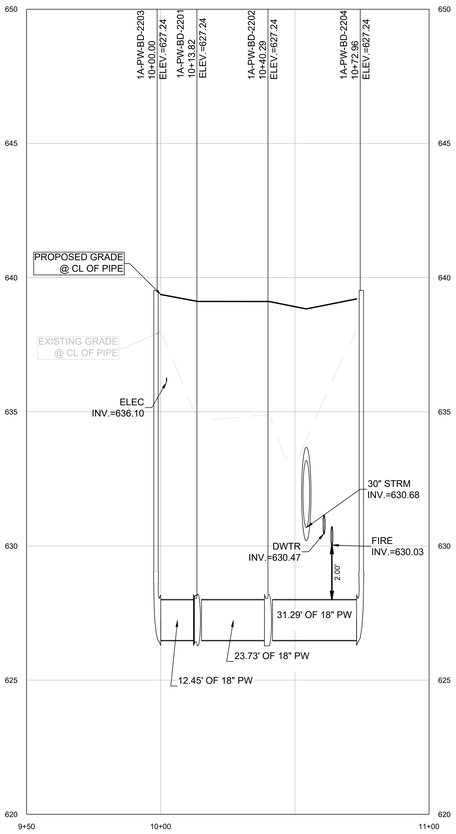

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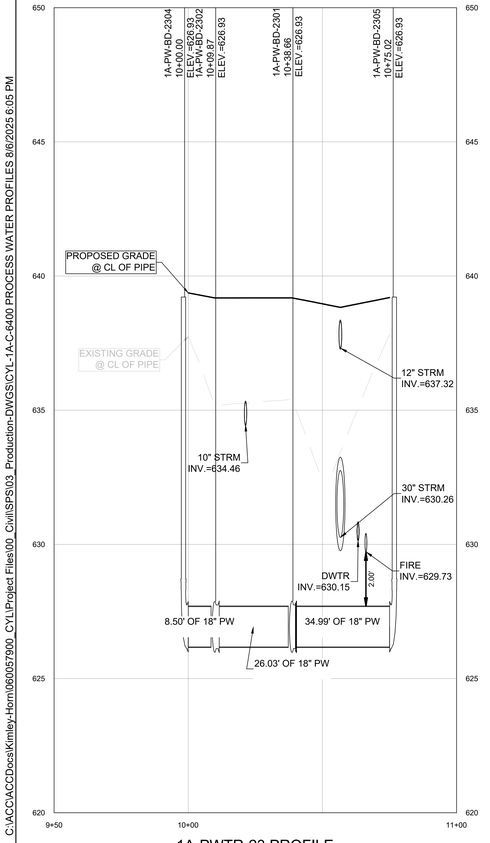

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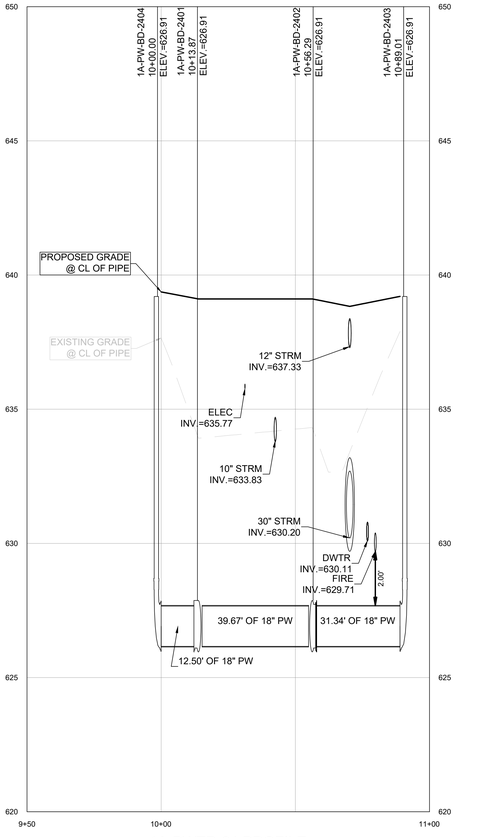

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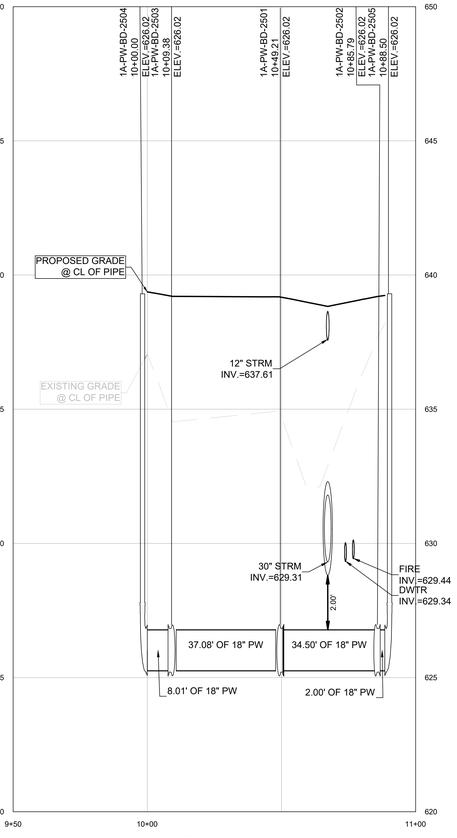

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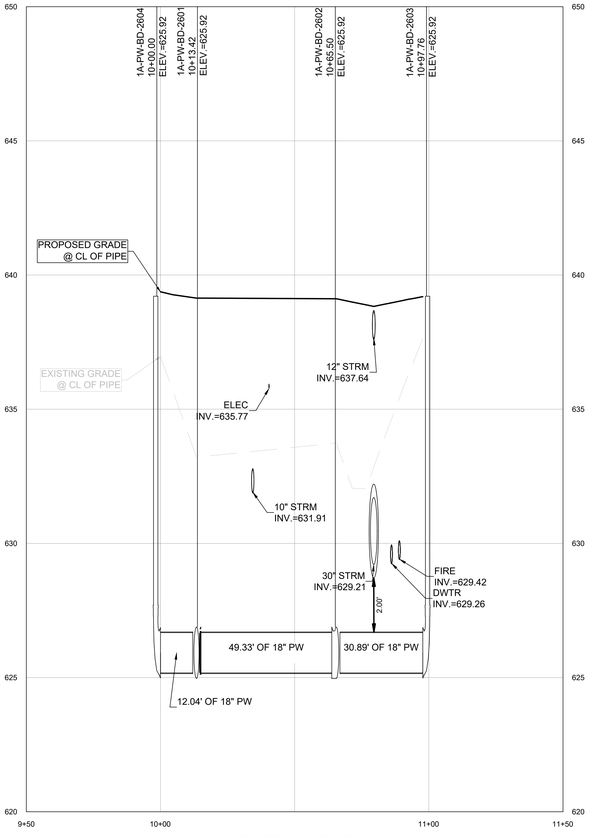

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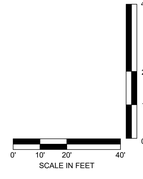

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-6400 PROCESS WATER PROFILES 8/6/2025 6:05 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DEVIN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

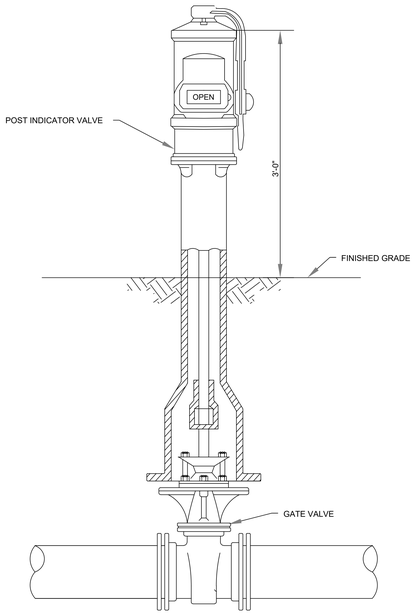
PROJ. NO.:10434535

PROCESS WATER PROFILES

SCALE: AS SHOWN

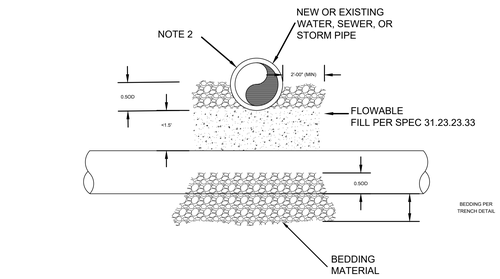
SHEET NUMBER:
1A-C-6418

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



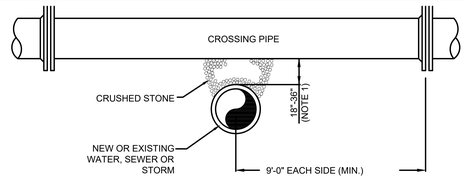
NOTES:
1. ASSEMBLY SHALL CONSIST OF STANDARD FM-APPROVED OR UL-LISTED INSIDE-SCREW GATE VALVE WITH ABOVE-GRADE POST INDICATOR.
2. DIRECTION TO OPEN SHALL BE COUNTERCLOCKWISE.
3. SURFACES BELOW GRADE SHALL RECEIVE A COATING OF BITUMEN NOT LESS THAN 20 MILS THICK. ABOVE-GRADE SURFACES SHALL BE FILLED, PRIMED, AND FINISHED WITH MULTIPLE COATS OF HIGH-GLOSS WEATHER-RESISTANT CHROME YELLOW.
4. POST INDICATOR VALVES SHALL BE ACCOMPANIED BY A ELECTRICAL SUPERVISORY SWITCH FOR INTERCONNECTION TO THE BUILDING FIRE ALARM SYSTEM.

1 - POST INDICATOR VALVE (PIV)
NTS

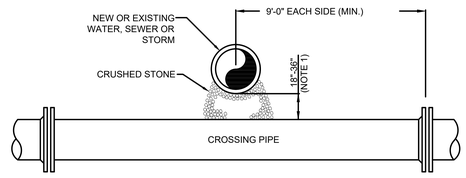


NOTES:
1. DETAIL IS SIMILAR FOR ALL PIPE CROSSINGS WHERE CLEARANCE BETWEEN PIPES IS LESS THAN 1'-6".
2. PROVIDE DOUBLE POLYETHYLENE WRAP AROUND ALL DUCTILE IRON PIPE. WRAP TO EXTEND 5'-0" PAST EACH SIDE OF THE FLOWABLE FILL.

2 - MIN. CLEARANCE PIPE CROSSING
NTS



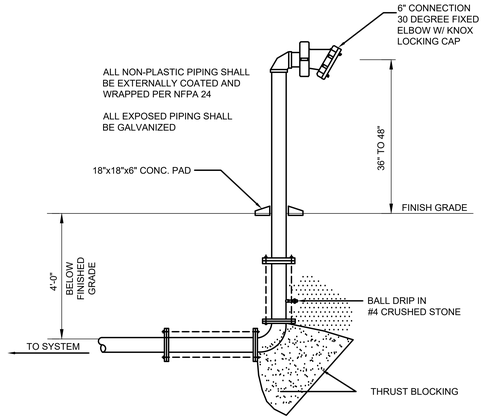
BELOW



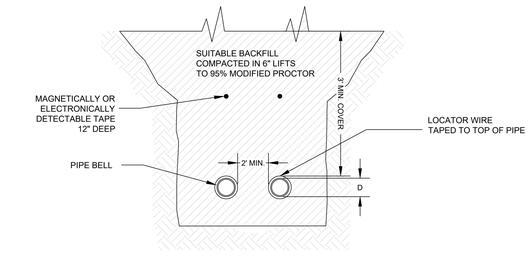
ABOVE

NOTES:
1. WHEN DISTANCE OF 18" OR MORE IS NOT POSSIBLE, USE MIN. CLEARANCE PIPE CROSSING DETAIL.
2. WHEN WATER LINE IS NEW, PROVIDE A FULL JOINT OF PIPE FOR BOTH LINES CENTERED AT CROSSING.
3. LOCATE SEWER BELOW WATER LINE.

3 - UTILITY CROSSING
NTS



4 - FIRE DEPARTMENT CONNECTION
NTS



5 - DUAL WATER MAIN TRENCH CROSS SECTION
NTS

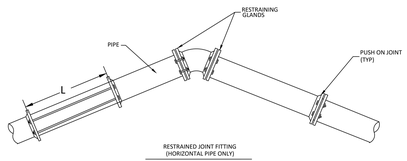
BEND ANGLE DIP				
	11.25° (L)	22.5° (L)	45° (L)	90° (L)
4"	2 FT	4 FT	7 FT	18 FT
6"	2 FT	5 FT	10 FT	25 FT
8"	3 FT	6 FT	13 FT	32 FT
10"	4 FT	8 FT	16 FT	38 FT
12"	4 FT	9 FT	19 FT	45 FT
16"	6 FT	11 FT	23 FT	57 FT

CAPS/ PLUGS	
MAIN DIAMETER	LENGTH
4"	39 FT
6"	55 FT
8"	72 FT
10"	86 FT
12"	102 FT
16"	131 FT

PROPERTIES USED FOR RJ CALCULATIONS	
PIPE MATERIAL	DIP
SOIL TYPE	SILTY SAND (SM)
SAFETY FACTOR	1.5
TRENCH TYPE	3
DEPTH (BURY IN FT)	3
TEST PRESSURE	150

TEES																							
	BRANCH DIAMETER																						
RUN DIAMETER	4 IN.		6 IN.		8 IN.		10 IN.		12 IN.		16 IN.		24 IN.										
	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	LF	LB	
4 IN.	5 FT	21 FT	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A									
	10 FT	1 FT	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A									
6 IN.	5 FT	1 FT	5 FT	21 FT	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A									
	10 FT	1 FT	10 FT	1 FT	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A									
8 IN.	5 FT	1 FT	5 FT	30 FT	5 FT	33 FT	5 FT	N/A	5 FT	N/A	5 FT	N/A	5 FT	N/A									
	10 FT	1 FT	10 FT	6 FT	10 FT	35 FT	10 FT	N/A	10 FT	N/A	10 FT	N/A	10 FT	N/A									
10 IN.	5 FT	1 FT	5 FT	24 FT	5 FT	48 FT	5 FT	51 FT	5 FT	N/A	5 FT	N/A	5 FT	N/A									
	10 FT	1 FT	10 FT	1 FT	10 FT	24 FT	10 FT	48 FT	10 FT	N/A	10 FT	N/A	10 FT	N/A									
12 IN.	5 FT	1 FT	5 FT	17 FT	5 FT	43 FT	5 FT	63 FT	5 FT	63 FT	5 FT	N/A	5 FT	N/A									
	10 FT	1 FT	10 FT	1 FT	10 FT	14 FT	10 FT	42 FT	10 FT	63 FT	10 FT	N/A	10 FT	N/A									
16 IN.	5 FT	1 FT	5 FT	3 FT	5 FT	32 FT	5 FT	54 FT	5 FT	75 FT	5 FT	111 FT	5 FT	N/A									
	10 FT	1 FT	10 FT	1 FT	10 FT	1 FT	10 FT	33 FT	10 FT	49 FT	10 FT	82 FT	10 FT	N/A									
24 IN.	5 FT	1 FT	5 FT	1 FT	5 FT	1 FT	5 FT	35 FT	5 FT	59 FT	5 FT	99 FT	5 FT	166 FT									
	10 FT	1 FT	10 FT	1 FT	10 FT	1 FT	10 FT	1 FT	10 FT	16 FT	10 FT	18 FT	10 FT	144 FT									

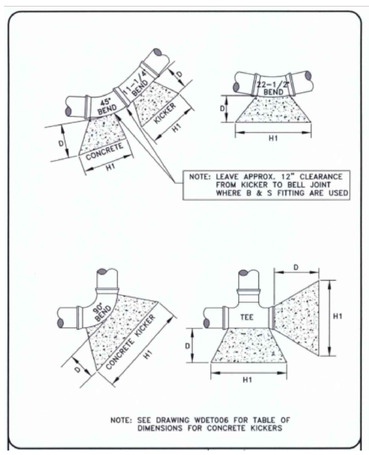
NOTES:
ALL JOINTS WITHIN THE CALCULATED LENGTH MUST BE RESTRAINED.
THE LONG DISTANCE BETWEEN FITTINGS IS LESS THAN OR EQUAL TO THE CALCULATED RESTRAINT LENGTH, RESTRAIN ALL JOINTS BETWEEN THOSE FITTINGS.



RESTRAINED JOINT FITTING (HORIZONTAL PIPE ONLY)

1. THE TABLE ABOVE SHOWS THE CONDITIONS THAT WERE USED TO CALCULATE THE RESTRAINED LENGTH FOR PIPES.
2. FOR DIP PUSH ON JOINTS GRIP RING TYPE PIPE MAY BE USED. FOR PVC PUSH ON JOINT HARNESS RESTRAINT (EBAA SERIES 1500 OR APPROVED EQUAL) FOR UP TO 12" PIPE, AND SERIES 2800 OR APPROVED EQUAL FOR 14" AND LARGER PIPE SHALL BE INSTALLED WITHIN THE MINIMUM DISTANCE(S) FROM BOTH SIDES OF FITTING(S) SPECIFIED IN THE TABLE ABOVE.
3. THE COST OF THE JOINT RESTRAINT HARNESS RESTRAINTS SHALL BE CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION AND NO SEPARATE PAYMENT WILL BE MADE FOR HARNESS INSTALLATION.
4. ALL MATERIALS SHALL BE MANUFACTURED IN THE UNITED STATES.

6 - JOINT RESTRAINT
NTS



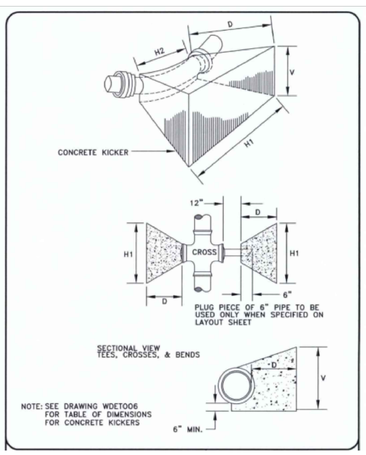


TABLE OF DIMENSIONS FOR CONCRETE KICKERS

SIZE OF PIPE (in.)		2" & 2-1/4"	3" & 4"	6"	8"	10"	12"	16"	18"	20"	24"	30"	36"
TAPPING SLEEVE & VALVE	H1	18"	24"	24"	36"	48"	54"	66"					
	H2	10"	12"	16"	18"	24"	30"	34"	36"	38"	42"	52"	58"
	V	12"	12"	18"	18"	18"	24"	36"					
	D	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"	24"
	CU. FT.	1.90	2.25	3.50	5.05	7.15	13.40	22.50					
90° BENDS	H1	18"	24"	30"	39"	54"	54"	69"					
	H2	10"	12"	16"	18"	32"	32"	48"	48"	48"	60"	72"	96"
	V	12	12"	18"	24"	24"	36"	48"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	CU. FT.	1.90	2.25	4.05	7.30	10.25	18.15	29.00					
45° BENDS	H1	18"	18"	24"	30"	24"	42"	48"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	40"	48"	48"	72"
	V	12"	12"	16"	18"	21"	24"	36"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	CU. FT.	1.50	1.60	3.20	3.95	4.60	9.60	17.00					
22-1/2° BENDS	H1	18"	18"	24"	24"	24"	24"	36"					
	H2	6"	8"	10"	11"	18"	18"	30"	30"	36"	42"	48"	72"
	V	12"	12"	16"	18"	21"	24"	27"					
	D	18"	18"	18"	18"	18"	24"	24"	24"	24"	24"	24"	24"
	CU. FT.	1.50	1.60	3.20	3.40	4.60	6.80	11.80					
11-1/4° BENDS	H1	18"	18"	24"	24"	24"	24"	27"					
	H2	6"	8"	10"	11"	18"	18"	24"	30"	40"	42"	48"	48"
	V	12"	12"	16"	16"	21"	21"	27"					
	D	18"	18"	18"	18"	24"	24"						
	CU. FT.	1.50	1.60	3.20	3.40	4.60	6.10	9.10					

NOTE:
CONCRETE USED FOR BLOCKING SHALL BE (CLASS "A"-3500# PER SQ. IN.). EARTH PRESSURES ARE FIGURED AT (4000# PER SQ. FT.) BEARING AREA OF KICKERS SHALL BE INCREASED WHEN POURED AGAINST SAND, LOOSE FILL, WET EARTH, CINDERS, ETC.

TABLE BASED ON 225 P.S.I. OR 150 P.S.I. WORKING PRESSURE PLUS 50% WATER HAMMER

7 - THRUST BLOCK
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434535

WATER DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6500
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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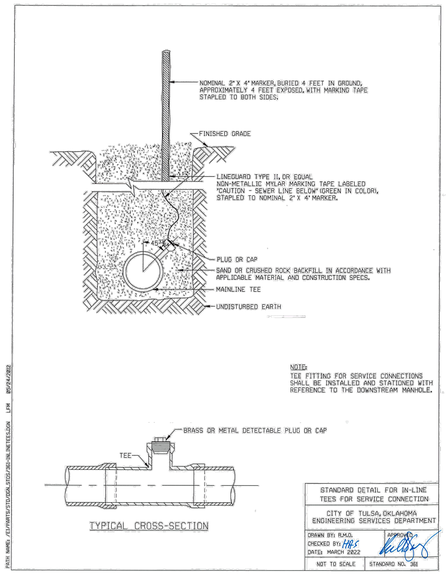
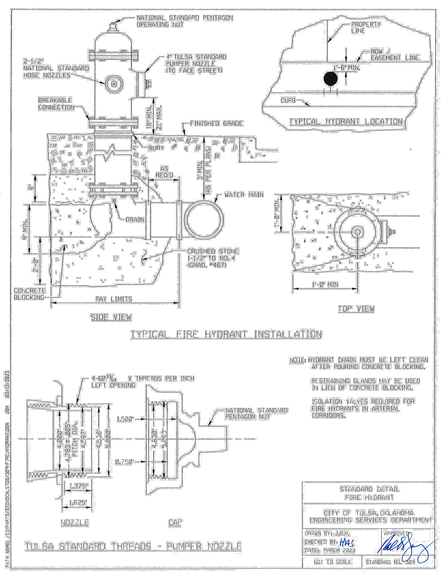
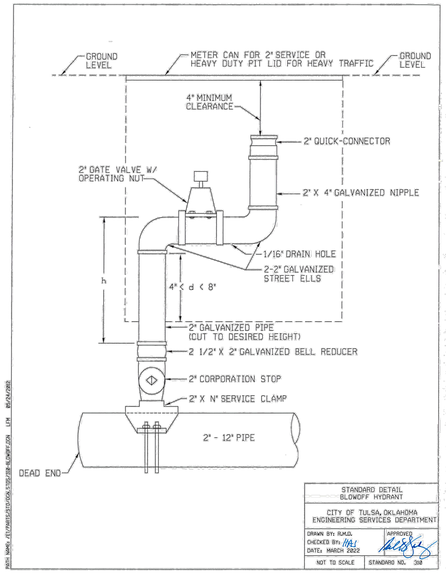
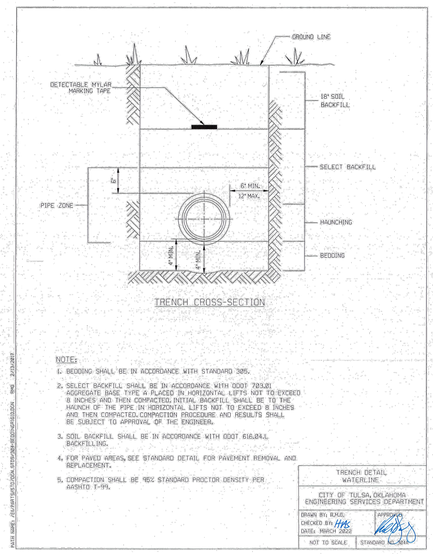
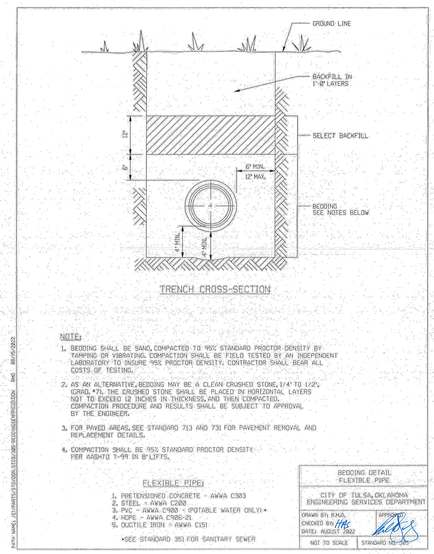
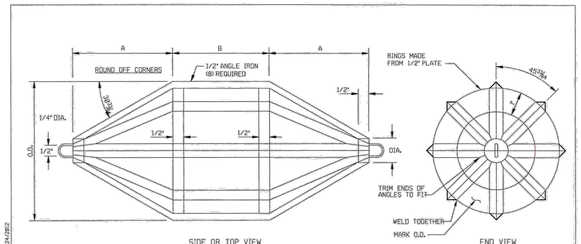






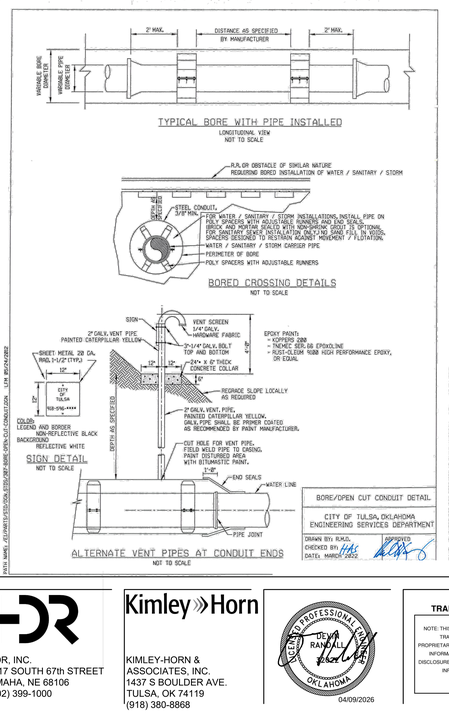


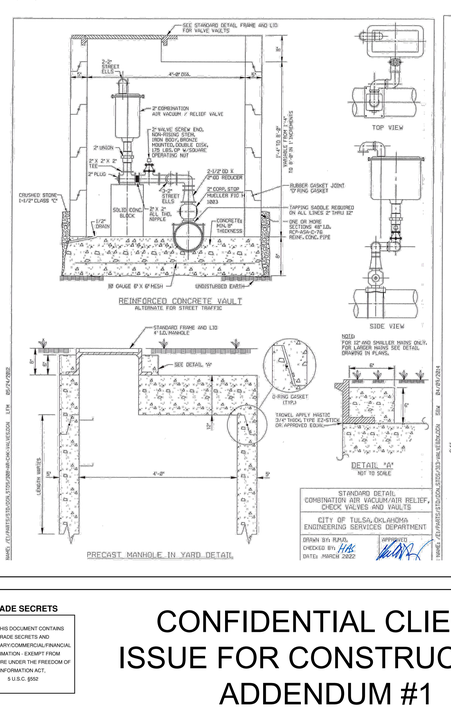


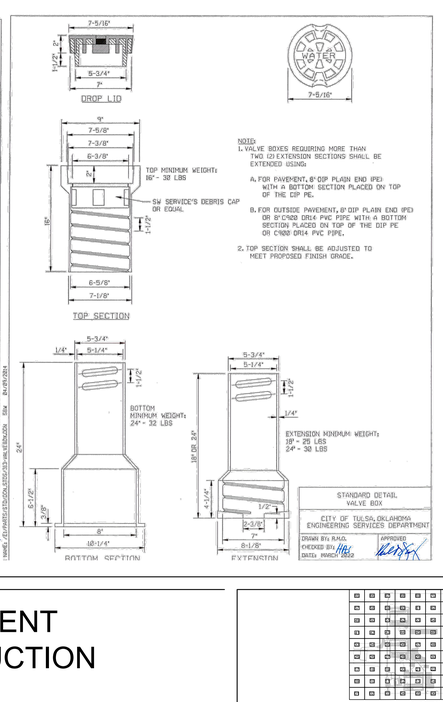


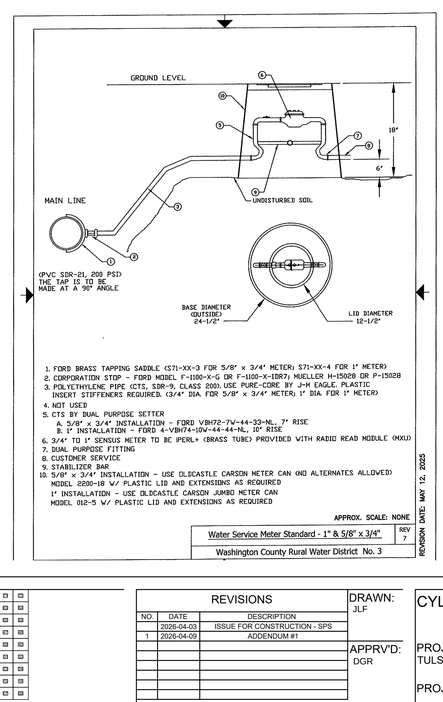
SIZE	A	B	PVC PIPE SDR 35 MANDREL O.D.(IN.)	PVC PIPE SDR 35 BASE INSIDE DIA.(IN.)	ABS AND PVC COMPOSITE PIPE MANDREL O.D.(IN.)	ABS AND PVC COMPOSITE PIPE AVG. INSIDE DIA.(IN.)
8	5.3"	6"	7.28	7.665	7.36	7.75
10	6.7"	6"	9.08	9.563	9.26	9.75
12	8.0"	8"	10.79	11.361	11.16	11.75

STANDARD DETAIL
60, NO-GO DEFLECTION TESTING MANDREL
CITY OF TULSA, OKLAHOMA
ENGINEERING SERVICES DEPARTMENT
DRAWN BY: RJ&D.
CHECKED BY: HAS
DATE: MARCH 2022
APPROVED
NOT TO SCALE
STANDARD NO. 564









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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
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TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

WATER DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-6501
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

DOMESTIC WATER

FITTINGS		
FITTING NAME	ALIGNMENT & STATION	COORDINATES
1A-DW-BD-0105	1A-DWTR-01 15+13.04	N: 467320.44 E: 2583530.24
1A-DW-BD-0106	1A-DWTR-01 15+51.42	N: 467347.02 E: 2583502.55
1A-DW-BD-0203	1A-DWTR-02 10+29.72	N: 467001.67 E: 2585522.92
1A-DW-BD-0204	1A-DWTR-02 10+42.20	N: 467010.30 E: 2585513.90
1A-DW-BD-0223	1A-DWTR-02 22+62.42	N: 466985.14 E: 2584293.94
1A-DW-BD-0224	1A-DWTR-02 22+72.42	N: 466992.07 E: 2584286.73
1A-DW-BD-0313	1A-DWTR-03 17+43.51	N: 467748.45 E: 2585245.97
1A-DW-BD-0314	1A-DWTR-03 17+53.51	N: 467755.37 E: 2585238.75
1A-DW-BD-0325	1A-DWTR-03 30+38.40	N: 467728.85 E: 2583954.14
1A-DW-BD-0326	1A-DWTR-03 30+68.40	N: 467707.21 E: 2583933.37
1A-DW-BD-0405	1A-DWTR-04 23+20.06	N: 468300.54 E: 2585923.20
1A-DW-BD-0408	1A-DWTR-04 30+55.83	N: 468367.09 E: 2584989.74
1A-DW-BD-0409	1A-DWTR-04 34+28.18	N: 468431.02 E: 2584829.68
1A-DW-BD-0410	1A-DWTR-04 35+65.05	N: 468428.19 E: 2584692.84
1A-DW-BD-0411	1A-DWTR-04 37+01.30	N: 468425.38 E: 2584556.62
1A-DW-BD-0413	1A-DWTR-04 38+06.63	N: 468498.30 E: 2584480.60
1A-DW-BD-0607	1A-DWTR-06 12+68.89	N: 467257.22 E: 2584445.57
1A-DW-BD-0608	1A-DWTR-06 12+75.97	N: 467262.32 E: 2584450.46
1A-DW-BD-0901	1A-DWTR-09 11+29.03	N: 467125.66 E: 2584850.06
1A-DW-BD-0902	1A-DWTR-09 11+35.45	N: 467130.02 E: 2584854.78
1A-DW-T-0201	1A-DWTR-02 12+94.84	N: 467005.09 E: 2585261.31
1A-DW-T-0202	1A-DWTR-02 13+66.84	N: 467003.61 E: 2585189.33
1A-DW-T-0203	1A-DWTR-02 15+96.84	N: 466998.86 E: 2584959.38
1A-DW-T-0204	1A-DWTR-02 17+03.52	N: 466996.67 E: 2584852.72
1A-DW-T-0205	1A-DWTR-02 18+46.84	N: 466993.71 E: 2584709.43
1A-DW-T-0206	1A-DWTR-02 19+85.69	N: 466990.85 E: 2584570.61
1A-DW-T-0207	1A-DWTR-02 21+05.21	N: 466988.38 E: 2584451.11
1A-DW-T-0208	1A-DWTR-02 21+26.84	N: 466987.94 E: 2584429.49
1A-DW-T-0308	1A-DWTR-03 27+21.12	N: 467735.40 E: 2584271.35
1A-DW-T-0307	1A-DWTR-03 25+79.55	N: 467738.32 E: 2584412.89
1A-DW-T-0306	1A-DWTR-03 23+10.26	N: 467743.88 E: 2584682.12
1A-DW-T-0305	1A-DWTR-03 21+57.91	N: 467747.02 E: 2584834.45
1A-DW-T-0304	1A-DWTR-03 19+07.85	N: 467752.18 E: 2585084.45
1A-DW-T-0303	1A-DWTR-03 16+34.30	N: 467639.26 E: 2585248.22
1A-DW-T-0302	1A-DWTR-03 13+96.31	N: 467401.32 E: 2585253.13
1A-DW-T-0301	1A-DWTR-03 12+73.95	N: 467278.98 E: 2585255.66
1A-DW-T-0604	1A-DWTR-06 19+08.13	N: 467275.40 E: 2585082.49
1A-DW-T-0603	1A-DWTR-06 15+50.90	N: 467268.01 E: 2584725.34
1A-DW-T-0602	1A-DWTR-06 12+32.52	N: 467220.85 E: 2584446.32
1A-DW-T-0209	1A-DWTR-02 23+81.63	N: 467101.25 E: 2584284.47
1A-DW-T-0211	1A-DWTR-02 26+88.50	N: 467408.06 E: 2584278.12
1A-DW-T-0212	1A-DWTR-02 28+99.62	N: 467619.14 E: 2584273.76
1A-DW-T-0210	1A-DWTR-02 26+61.63	N: 467381.20 E: 2584278.68
1A-DW-T-0601	1A-DWTR-06 11+41.30	N: 467129.65 E: 2584448.20
1A-DW-BD-0201	1A-DWTR-02 10+02.55	N: 466974.51 E: 2585523.48
1A-DW-BD-0202	1A-DWTR-02 10+25.44	N: 466997.40 E: 2585523.01
1A-DW-BD-0205	1A-DWTR-02 12+08.45	N: 467006.87 E: 2585347.68
1A-DW-BD-0206	1A-DWTR-02 12+55.69	N: 467005.90 E: 2585300.45
1A-DW-BD-0207	1A-DWTR-02 17+61.27	N: 466995.47 E: 2584794.98
1A-DW-BD-0208	1A-DWTR-02 17+86.02	N: 466994.96 E: 2584770.24
1A-DW-BD-0209	1A-DWTR-02 17+95.99	N: 466994.76 E: 2584760.27
1A-DW-BD-0210	1A-DWTR-02 18+08.09	N: 466994.51 E: 2584748.17
1A-DW-BD-0211	1A-DWTR-02 18+51.90	N: 466993.61 E: 2584704.37
1A-DW-BD-0212	1A-DWTR-02 18+58.51	N: 466993.47 E: 2584697.76
1A-DW-BD-0213	1A-DWTR-02 19+40.92	N: 466991.77 E: 2584615.37
1A-DW-BD-0214	1A-DWTR-02 19+56.24	N: 466991.45 E: 2584600.05
1A-DW-BD-0221	1A-DWTR-02 22+55.14	N: 466985.29 E: 2584301.22
1A-DW-BD-0222	1A-DWTR-02 22+59.18	N: 466985.21 E: 2584297.18
1A-DW-BD-0225	1A-DWTR-02 26+35.12	N: 467354.69 E: 2584279.23
1A-DW-BD-0226	1A-DWTR-02 26+37.75	N: 467357.32 E: 2584279.17
1A-DW-BD-0227	1A-DWTR-02 26+72.59	N: 467392.16 E: 2584278.45
1A-DW-BD-0228	1A-DWTR-02 26+75.51	N: 467395.07 E: 2584278.39

FITTINGS		
FITTING NAME	ALIGNMENT & STATION	COORDINATES
1A-DW-RD-0201	1A-DWTR-02 19+91.95	N: 466990.72 E: 2584564.35
1A-DW-BD-0301	1A-DWTR-03 11+66.47	N: 467171.53 E: 2585257.88
1A-DW-BD-0302	1A-DWTR-03 11+88.40	N: 467193.45 E: 2585257.42
1A-DW-BD-0311	1A-DWTR-03 16+49.31	N: 467654.27 E: 2585247.91
1A-DW-BD-0312	1A-DWTR-03 16+58.16	N: 467663.11 E: 2585247.73
1A-DW-BD-0317	1A-DWTR-03 24+61.33	N: 467740.76 E: 2584531.09
1A-DW-BD-0318	1A-DWTR-03 24+79.32	N: 467740.39 E: 2584513.10
1A-DW-BD-0319	1A-DWTR-03 27+13.89	N: 467735.55 E: 2584278.58
1A-DW-BD-0320	1A-DWTR-03 27+28.68	N: 467735.25 E: 2584263.79
1A-DW-BD-0321	1A-DWTR-03 27+55.77	N: 467734.69 E: 2584236.71
1A-DW-BD-0322	1A-DWTR-03 27+74.58	N: 467734.30 E: 2584217.91
1A-DW-BD-0323	1A-DWTR-03 27+94.64	N: 467734.09 E: 2584207.85
1A-DW-BD-0324	1A-DWTR-03 27+99.33	N: 467733.79 E: 2584193.16
1A-DW-BD-0501	??? ???	N: 467004.55 E: 2584570.32
1A-DW-BD-0502	??? ???	N: 467019.34 E: 2584570.02
1A-DW-BD-0503	??? ???	N: 467030.63 E: 2584569.78
1A-DW-BD-0601	1A-DWTR-06 10+19.76	N: 467008.14 E: 2584450.71
1A-DW-BD-0602	1A-DWTR-06 10+25.05	N: 467013.43 E: 2584450.60
1A-DW-BD-0603	1A-DWTR-06 10+35.95	N: 467024.33 E: 2584450.37
1A-DW-BD-0604	1A-DWTR-06 10+48.50	N: 467036.87 E: 2584450.11
1A-DW-BD-0609	1A-DWTR-06 20+76.70	N: 467278.89 E: 2585251.03
1A-DW-BD-1401	1A-DWTR-14 10+08.83	N: 467408.24 E: 2584286.95
1A-DW-BD-1402	1A-DWTR-14 10+18.12	N: 467408.43 E: 2584296.24
1A-DW-BD-1403	1A-DWTR-14 10+28.16	N: 467408.64 E: 2584306.28
1A-DW-BD-1404	1A-DWTR-14 10+32.48	N: 467408.73 E: 2584310.60
1A-DW-BD-0605	1A-DWTR-06 11+46.76	N: 467135.11 E: 2584448.09
1A-DW-BD-0606	1A-DWTR-06 11+55.40	N: 467143.75 E: 2584447.91
1A-DW-BD-0303	1A-DWTR-03 13+69.80	N: 467374.81 E: 2585253.68
1A-DW-BD-0304	1A-DWTR-03 13+79.25	N: 467384.26 E: 2585253.49
1A-DW-BD-0305	1A-DWTR-03 14+47.41	N: 467452.41 E: 2585252.08
1A-DW-BD-0306	1A-DWTR-03 14+57.33	N: 467462.32 E: 2585251.87
1A-DW-BD-0310	1A-DWTR-03 16+45.32	N: 467650.27 E: 2585248.00
1A-DW-BD-0308	1A-DWTR-03 15+63.80	N: 467568.77 E: 2585249.68
1A-DW-BD-0307	1A-DWTR-03 15+54.36	N: 467559.33 E: 2585249.87
1A-DW-BD-0309	1A-DWTR-03 16+36.60	N: 467641.55 E: 2585248.17
1A-DW-BD-0316	1A-DWTR-03 19+20.21	N: 467751.93 E: 2585072.10
1A-DW-BD-0315	1A-DWTR-03 19+11.02	N: 467752.12 E: 2585081.28
1A-DW-BD-2301	1A-DWTR-23 10+06.12	N: 467740.91 E: 2584834.57
1A-DW-BD-2302	1A-DWTR-23 10+17.32	N: 467729.71 E: 2584834.80
1A-DW-BD-2401	1A-DWTR-24 10+06.18	N: 467737.70 E: 2584682.25
1A-DW-BD-2402	1A-DWTR-24 10+17.32	N: 467726.57 E: 2584682.48
1A-DW-BD-2501	1A-DWTR-25 10+10.01	N: 467728.32 E: 2584413.10
1A-DW-BD-2502	1A-DWTR-25 10+17.42	N: 467720.90 E: 2584413.25
1A-DW-BD-0215	1A-DWTR-02 19+97.62	N: 466990.60 E: 2584558.68
1A-DW-BD-0216	1A-DWTR-02 20+03.52	N: 466990.48 E: 2584552.79
1A-DW-BD-0217	1A-DWTR-02 21+10.03	N: 466988.28 E: 2584446.29
1A-DW-BD-0218	1A-DWTR-02 21+15.60	N: 466988.17 E: 2584440.72
1A-DW-BD-0219	1A-DWTR-02 21+55.58	N: 466987.34 E: 2584400.76
1A-DW-BD-0220	1A-DWTR-02 21+60.37	N: 466987.25 E: 2584395.97
1A-DW-BD-0401	1A-DWTR-04 15+50.00	N: 467530.48 E: 2585931.49
1A-DW-BD-0402	1A-DWTR-04 15+86.48	N: 467566.96 E: 2585931.09
1A-DW-BD-0403	1A-DWTR-04 15+96.56	N: 467577.03 E: 2585930.98
1A-DW-BD-0404	1A-DWTR-04 16+18.42	N: 467598.89 E: 2585930.74
1A-DW-BD-0406	1A-DWTR-04 23+47.30	N: 468302.43 E: 2585895.97
1A-DW-BD-0407	1A-DWTR-04 23+98.47	N: 468306.07 E: 2585844.93
1A-DW-BD-0412	1A-DWTR-04 37+67.29	N: 468471.08 E: 2584509.00
1A-DW-RD-0301	1A-DWTR-03 27+41.31	N: 467734.99 E: 2584251.17
1A-DW-RD-0501	??? ???	N: 467084.13 E: 2584568.67
1A-DW-T-0101	1A-DWTR-01 13+30.83	N: 467138.27 E: 2583534.00
1A-DW-BD-0327	1A-DWTR-03 31+17.73	N: 467657.90 E: 2583934.38
1A-DW-BD-2601	1A-DWTR-26 10+15.77	N: 467137.95 E: 2583518.23
1A-DW-BD-2602	1A-DWTR-26 10+20.30	N: 467137.85 E: 2583513.71

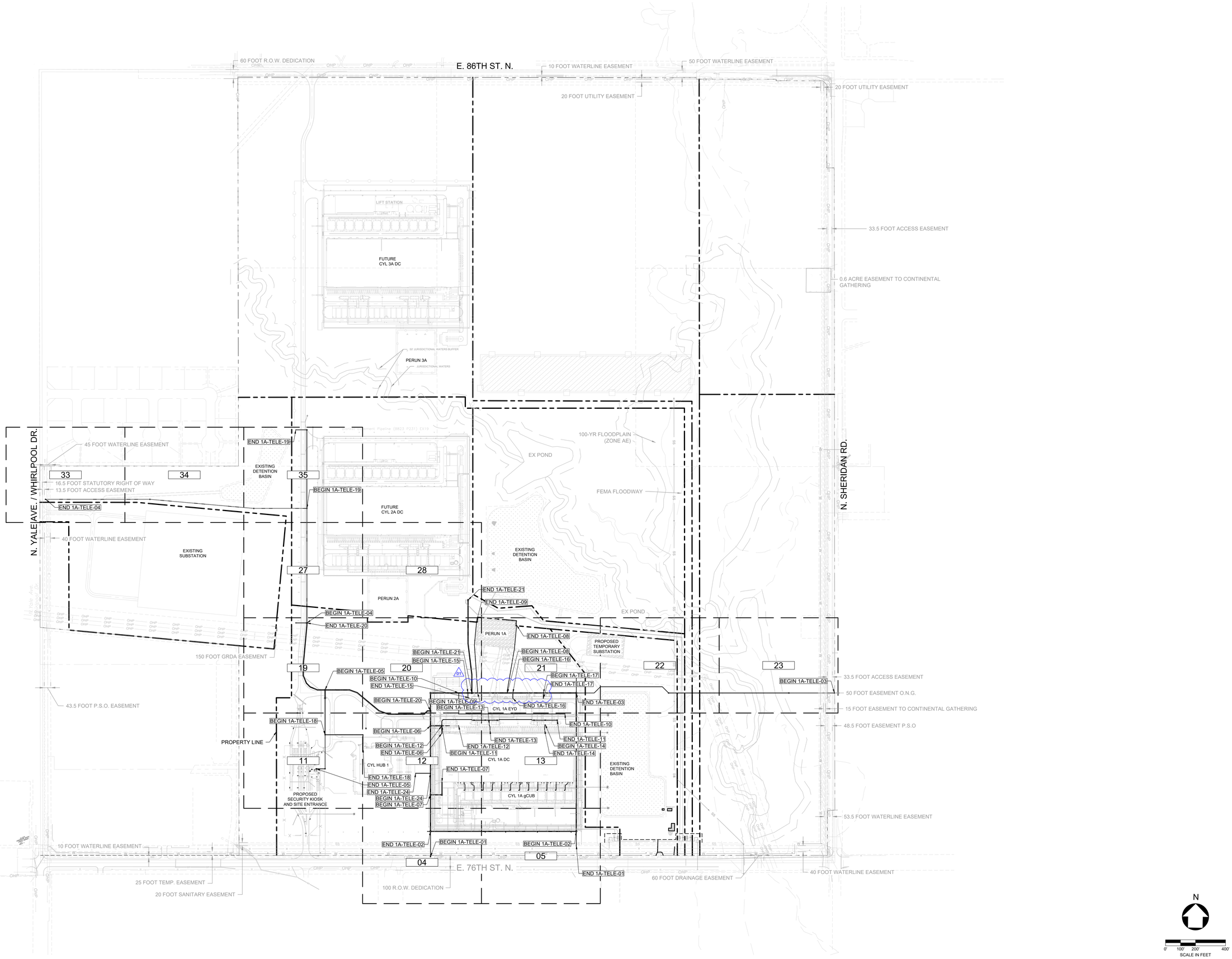
FITTINGS		
FITTING NAME	ALIGNMENT & STATION	COORDINATES
1A-DW-BD-0101	1A-DWTR-01 10+55.73	N: 466863.23 E: 2583539.68
1A-DW-BD-0102	1A-DWTR-01 10+58.42	N: 466865.92 E: 2583539.62
1A-DW-BD-0103	1A-DWTR-01 10+68.43	N: 466875.93 E: 2583539.42
1A-DW-BD-0104	1A-DWTR-01 10+85.47	N: 466892.97 E: 2583539.06
1A-DW-RD-0101	1A-DWTR-01 13+33.57	N: 467141.01 E: 2583533.94
1A-DW-BD-0414	1A-DWTR-04 36+50.62	N: 468426.43 E: 2584607.29
1A-DW-BD-0415	1A-DWTR-04 36+53.78	N: 468426.36 E: 2584604.13
1A-DW-BD-0416	1A-DWTR-04 36+63.78	N: 468426.16 E: 2584594.13
1A-DW-BD-0417	1A-DWTR-04 36+66.94	N: 468426.09 E: 2584590.97

FIRE WATER

APPURTENANCES		
NAME	ALIGNMENT & STATION	COORDINATES
1A-DW-HYD-0701	1A-DWTR-07 10+09.03	N: 466994.57 E: 2585189.51
1A-DW-HYD-0801	1A-DWTR-08 10+09.04	N: 466989.83 E: 2584959.56
1A-DW-HYD-1001	1A-DWTR-10 10+09.04	N: 466984.67 E: 2584709.62
1A-DW-HYD-1101	1A-DWTR-11 10+09.05	N: 466978.89 E: 2584429.68
1A-DW-HYD-1201	1A-DWTR-12 10+03.85	N: 467101.17 E: 2584280.62
1A-DW-HYD-1501	1A-DWTR-15 10+03.83	N: 467619.06 E: 2584269.93
1A-DW-HYD-1601	1A-DWTR-16 10+07.03	N: 467220.71 E: 2584439.29
1A-DW-HYD-1301	1A-DWTR-13 10+03.84	N: 467381.12 E: 2584274.84
1A-DW-HYD-1901	1A-DWTR-19 10+11.41	N: 467264.00 E: 2585082.73
1A-DW-HYD-1801	1A-DWTR-18 10+11.32	N: 467256.69 E: 2584725.58
1A-DW-HYD-2001	1A-DWTR-20 10+06.50	N: 467401.18 E: 2585246.64
1A-DW-HYD-2101	1A-DWTR-21 10+06.50	N: 467639.12 E: 2585241.72
1A-DW-HYD-2201	1A-DWTR-22 10+20.45	N: 467731.74 E: 2585084.86
1A-DW-HYD-2301	1A-DWTR-23 10+22.97	N: 467724.06 E: 2584834.92
1A-DW-HYD-2401	1A-DWTR-24 10+20.54	N: 467723.35 E: 2584682.54
1A-DW-HYD-2501	1A-DWTR-25 10+23.33	N: 467715.00 E: 2584413.37
1A-DW-WV-0101	1A-DWTR-01 10+08.50	N: 466816.01 E: 2583540.65
1A-DW-WV-0201	1A-DWTR-02 15+00.00	N: 467000.86 E: 2585056.20
1A-DW-WV-0202	1A-DWTR-02 19+79.75	N: 466991.16 E: 2584585.55
1A-DW-WV-0203	1A-DWTR-02 24+64.05	N: 467183.65 E: 2584282.76
1A-DW-WV-0204	1A-DWTR-02 29+64.05	N: 467683.55 E: 2584272.43
1A-DW-WV-0301	1A-DWTR-03 15+00.00	N: 467504.98 E: 2585250.99
1A-DW-WV-0302	1A-DWTR-03 20+00.00	N: 467750.28 E: 2584992.32
1A-DW-WV-0303	1A-DWTR-03 25+00.00	N: 467739.97 E: 2584492.43
1A-DW-WV-0304	1A-DWTR-03 28+08.31	N: 467733.60 E: 2584184.19
1A-DW-WV-0601	1A-DWTR-06 10+02.46	N: 466990.84 E: 2584451.06
1A-DW-WV-0604	1A-DWTR-06 20+75.16	N: 467278.85 E: 2585249.49
1A-DW-WV-0602	1A-DWTR-06 12+51.04	N: 467239.36 E: 2584445.93
1A-DW-WV-0603	1A-DWTR-06 17+65.62	N: 467272.45 E: 2584940.01
1A-DW-WV-0901	1A-DWTR-09 10+04.12	N: 467000.78 E: 2584852.63
1A-DW-WV-1401	1A-DWTR-14 10+03.83	N: 467408.14 E: 2584281.95
1A-DW-WV-1701	1A-DWTR-17 10+04.68	N: 467129.75 E: 2584452.88
1A-DW-WV-0401	1A-DWTR-04 15+00.00	N: 467480.48 E: 2585932.03
1A-DW-WV-0402	1A-DWTR-04 20+00.00	N: 467980.45 E: 2585926.61
1A-DW-WV-0403	1A-DWTR-04 25+00.00	N: 468313.30 E: 2585743.66
1A-DW-WV-0404	1A-DWTR-04 30+00.00	N: 468348.90 E: 2585244.93
1A-DW-WV-0405	1A-DWTR-04 35+00.00	N: 468429.54 E: 2584757.88
1A-DW-HYD-2601	1A-DWTR-26 10+66.90	N: 467136.89 E: 2583467.12
1A-DW-PIV-0501	??? ???	N: 467033.10 E: 2584569.73

FITTINGS		
FITTING NAME	ALIGNMENT & STATION	COORDINATES
1A-FW-BD-0501	1A-FIRE-5 10+66.17	N: 467057.94 E: 2584469.48
1A-FW-BD-0502	1A-FIRE-5 15+73.25	N: 467062.85 E: 2584464.57
1A-FW-BD-0603	1A-FIRE-6 10+34.30	N: 467042.30 E: 2584497.46
1A-FW-BD-0604	1A-FIRE-6 10+83.67	N: 467091.66 E: 2584496.44
1A-FW-BD-0605	1A-FIRE-6 10+87.97	N: 467094.64 E: 2584493.34
1A-FW-BD-0419	1A-FIRE-4 25+47.13	N: 467749.75 E: 2585248.94
1A-FW-BD-0420	1A-FIRE-4 25+59.62	N: 467758.39 E: 2585239.93
1A-FW-BD-0433	1A-FIRE-4 38+46.99	N: 467731.83 E: 2583952.83
1A-FW-BD-0434	1A-FIRE-4 38+79.48	N: 467708.39 E: 2583930.34
1A-FW-BD-0202	1A-FIRE-2 10+45.20	N: 467012.89 E: 2585494.34
1A-FW-BD-0213	1A-FIRE-2 18+23.68	N: 466996.84 E: 2584716.02
1A-FW-BD-0214	1A-FIRE-2 18+36.13	N: 467005.46 E: 2584707.04
1A-FW-BD-0601	1A-FIRE-6 10+21.09	N: 467042.03 E: 2584484.26
1A-FW-BD-0602	1A-FIRE-6 10+32.61	N: 467042.27 E: 2584495.77
1A-FW-BD-0201	1A-FIRE-2 10+32.71	N: 467004.26 E: 2585503.36
1A-FW-BD-0412	1A-FIRE-4 20+75.87	N: 467278.59 E: 2585258.66
1A-FW-BD-0411	1A-FIRE-4 20+72.37	N: 467276.06 E: 2585256.24
1A-FW-BD-0404	1A-FIRE-4 12+70.63	N: 467259.54 E: 2584454.67
1A-FW-BD-0403	1A-FIRE-4 12+61.74	N: 467253.12 E: 2584448.51
1A-FW-BD-0301	1A-FIRE-3 10+03.51	N: 467043.31 E: 2584677.89
1A-FW-BD-0302	1A-FIRE-3 10+15.96	N: 467034.33 E: 2584669.28
1A-FW-BD-0303	1A-FIRE-3 10+45.60	N: 467004.69 E: 2584669.89
1A-FW-BD-0304	1A-FIRE-3 10+58.04	N: 466995.72 E: 2584661.28
1A-FW-BD-0311	1A-FIRE-3 14+16.28	N: 466988.33 E: 2584303.12
1A-FW-BD-0312	1A-FIRE-3 14+28.76	N: 466996.97 E: 2584294.11
1A-FW-T-0401	1A-FIRE-4 35+20.95	N: 467738.56 E: 2584278.81
1A-FW-T-0301	1A-FIRE-3 12+48.52	N: 466991.79 E: 2584470.84
1A-FW-T-0302	1A-FIRE-3 12+65.45	N: 466991.44 E: 2584453.91
1A-FW-T-0303	1A-FIRE-3 14+91.12	N: 467059.32 E: 2584292.82
1A-FW-BD-0203	1A-FIRE-2 11+93.19	N: 467009.84 E: 2585346.37
1A-FW-BD-0204	1A-FIRE-2 12+01.03	N: 467009.68 E: 2585338.54
1A-FW-BD-0401	1A-FIRE-4 10+47.67	N: 467026.91 E: 2584453.18
1A-FW-BD-0402	1A-FIRE-4 10+47.67	N: 467039.10 E: 2584452.93
1A-FW-BD-0405	1A-FIRE-4 15+29.01	N: 467264.86 E: 2584712.99
1A-FW-BD-0406	1A-FIRE-4 15+31.47	N: 467264.91 E: 2584715.45
1A-FW-BD-0407	1A-FIRE-4 15+70.15	N: 467265.71 E: 2584754.12
1A-FW-BD-0408	1A-FIRE-4 15+72.37	N: 467265.76 E: 2584756.34
1A-FW-BD-0409	1A-FIRE-4 20+53.14	N: 467275.66 E: 2585237.01
1A-FW-BD-0410	1A-FIRE-4 20+61.87	N: 467275.84 E: 2585245.74
1A-FW-BD-0413	1A-FIRE-4 20+88.76	N: 467291.47 E: 2585258.39
1A-FW-BD-0414	1A-FIRE-4 20+93.03	N: 467295.95 E: 2585258.30
1A-FW-BD-0415	1A-FIRE-4 21+37.21	N: 467339.91 E: 2585257.39
1A-FW-BD-0416	1A-FIRE-4 21+39.63	N: 467342.33 E: 2585257.34
1A-FW-BD-0421	1A-FIRE-4 30+65.50	N: 467747.96 E: 2584734.16
1A-FW-BD-0422	1A-FIRE-4 30+71.77	N: 467747.83 E: 2584727.90
1A-FW-BD-0423	1A-FIRE-4 32+35.31	N: 467744.45 E: 2584564.38
1A-FW-BD-0424	1A-FIRE-4 32+41.28	N: 467744.33 E: 2584558.42
1A-FW-BD-0425	1A-FIRE-4 33+66.55	N: 467741.74 E: 2584433.18
1A-FW-BD-0426	1A-FIRE-4 33+70.31	N: 467741.67 E: 2584429.41
1A-FW-BD-0427	1A-FIRE-4 33+90.34	N: 467741.25 E: 2584409.39
1A-FW-BD-0428	1A-FIRE-4 33+95.08	N: 467741.15 E: 2584404.65
1A-FW-BD-0429	1A-FIRE-4 34+99.10	N: 467739.01 E: 2584300.65
1A-FW-BD-0430	1A-FIRE-4 35+03.95	N: 467738.91 E: 2584295.80
1A-FW-T-0501	1A-FIRE-5 10+49.95	N: 467041.72 E: 2584469.81
1A-FW-BD-0431	1A-FIRE-4 36+00.55	N: 467736.91 E: 2584199.23
1A-FW-BD-0432	1A-FIRE-4 36+07.53	N: 467736.77 E: 2584192.24
1A-FW-BD-0417	1A-FIRE-4 24+56.37	N: 467659.01 E: 2585250.81
1A-FW-BD-0418	1A-FIRE-4 24+59.45	N: 467662.08 E: 2585250.75
1A-FW-BD-0205	1A-FIRE-2 13+35.49	N: 467006.91 E: 2585204.11
1A-FW-BD-0206	1A-FIRE-2 13+45.00	N: 467006.71 E: 2585194.59

FITTINGS		
FITTING NAME	ALIGNMENT & STATION	COORDINATES
1A-FW-BD-0207	1A-FIRE-2 16+68.49	N: 467000.04 E: 2584871.18
1A-FW-BD-0208	1A-FIRE-2 16+78.41	N: 466999.84 E: 2584861.26
1A-FW-BD-0209	1A-FIRE-2 17+12.01	N: 466999.14 E: 2584827.66
1A-FW-BD-0210	1A-FIRE-2 17+16.51	N: 466999.05 E: 2584823.17
1A-FW-BD-0211	1A-FIRE-2 17+84.49	N: 466997.65 E: 2584755.20
1A-FW-BD-0212	1A-FIRE-2 17+89.46	N: 466997.55 E: 2584750.23
1A-FW-BD-0503	1A-FIRE-5 11+98.57	N: 467062.12 E: 2584429.05
1A-FW-BD-0504	1A-FIRE-5 11+11.63	N: 467062.06 E: 2584426.00
1A-FW-BD-0111	1A-FIRE-1 23+16.83	N: 468297.19 E: 2585926.36
1A-FW-BD-0114	1A-FIRE-1 32+55.61	N: 468363.98 E: 2584989.92
1A-FW-BD-0119	1A-FIRE-1 34+29.00	N: 468427.90 E: 2584828.74
1A-FW-BD-0123	1A-FIRE-1 37+02.40	N: 468422.25 E: 2584555.40
1A-FW-BD-0126	1A-FIRE-1 38+10.30	N: 468496.96 E: 2584477.53
1A-FW-BD-0101	1A-FIRE-1 15+68.59	N: 467549.12 E: 2585943.72
1A-FW-BD-0102	1A-FIRE-1 15+96.01	N: 467576.52 E: 2585943.08
1A-FW-BD-0103	1A-FIRE-1 16+06.01	N: 467586.53 E: 2585942.85
1A-FW-BD-0104	1A-FIRE-1 16+33.43	N: 467613.93 E: 2585942.21
1A-FW-BD-0105	1A-FIRE-1 18+39.86	N: 467820.31 E: 2585937.41
1A-FW-BD-0106	1A-FIRE-1 18+67.29	N: 467847.73 E: 2585936.78
1A-FW-BD-0107	1A-FIRE-1 19+52.17	N: 467932.59 E: 2585934.80
1A-FW-BD-0108	1A-FIRE-1 19+79.57	N: 467959.98 E: 2585934.16
1A-FW-BD-0109	1A-FIRE-1 21+64.28	N: 468144.64 E: 2585929.87
1A-FW-BD-0110	1A-FIRE-1 22+01.75	N: 468182.10 E: 2585929.00
1A-FW-BD-0112	1A-FIRE-1 23+54.79	N: 468299.86 E: 2585888.46
1A-FW-BD-0113	1A-FIRE-1 23+82.18	N: 468301.81 E: 2585861.14
1A-FW-BD-0117	1A-FIRE-1 33+95.69	N: 468415.62 E: 2584859.71
1A-FW-BD-0118	1A-FIRE-1 34+23.17	N: 468425.75 E: 2584834.17
1A-FW-BD-0115	1A-FIRE-1 32+58.84	N: 468365.19 E: 2584986.92
1A-FW-BD-0116	1A-FIRE-1 32+77.38	N: 468372.02 E: 2584969.69
1A-FW-BD-0122	1A-FIRE-1 36+70.10	N: 468422.92 E: 2584587.69
1A-FW-BD-0124	1A-FIRE-1 37+27.50	N: 468439.64 E: 2584537.29
1A-FW-BD-0125	1A-FIRE-1 37+90.86	N: 468483.51 E: 2584491.57
1A-FW-T - (466)	1A-FIRE-4 35+13.25	N: 467738.72 E: 2584286.50
1A-FW-T - (468)	1A-FIRE-4 35+28.89	N: 467738.39 E: 2584270.87
1A-FW-T - (469)	1A-FIRE-4 35+65.16	N: 467737.64 E: 2584234.60
1A-FW-T - (470)	1A-FIRE-4 35+83.17	N: 467737.27 E: 2584216.60
1A-FW-T - (476)	1A-FIRE-4 18+79.78	N: 467272.09 E: 2585063.69
1A-FW-T - (477)	1A-FIRE-4 18+93.75	N: 467272.38 E: 2585077.66
1A-FW-T - (478)	1A-FIRE-4 19+03.76	N: 467272.59 E: 2585087.66
1A-FW-T - (479)	1A-FIRE-4 19+16.72	N: 467272.85 E: 2585100.62
1A-FW-BD-0435	1A-FIRE-4 39+06.98	N: 467678.90 E: 2583930.95
1A-FW-BD-0436	1A-FIRE-4 39+30.61	N: 467657.27 E: 2583931.40
1A-FW-BD-0437	1A-FIRE-4 39+40.61	N: 467647.27 E: 2583931.60
1A-FW-BD-0801	1A-FIRE-8 10+11.34	N: 467386.12 E: 2584274.74
1A-FW-BD-0802	1A-FIRE-8 10+15.33	N: 467390.11 E: 2584274.66
1A-FW-BD-0805	1A-FIRE-8 10+53.18	N: 467390.89 E: 2584312.49
1A-FW-BD-0806	1A-FIRE-8 10+57.33	N: 467393.87 E: 2584315.38
1A-FW-T-0304	1A-FIRE-3 18+18.22	N: 467386.35 E: 2584286.08
1A-FW-BD-0305	1A-FIRE-3 11+52.97	N: 466993.76 E: 2584566.37
1A-FW-BD-0306	1A-FIRE-3 11+59.



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HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

REGISTERED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

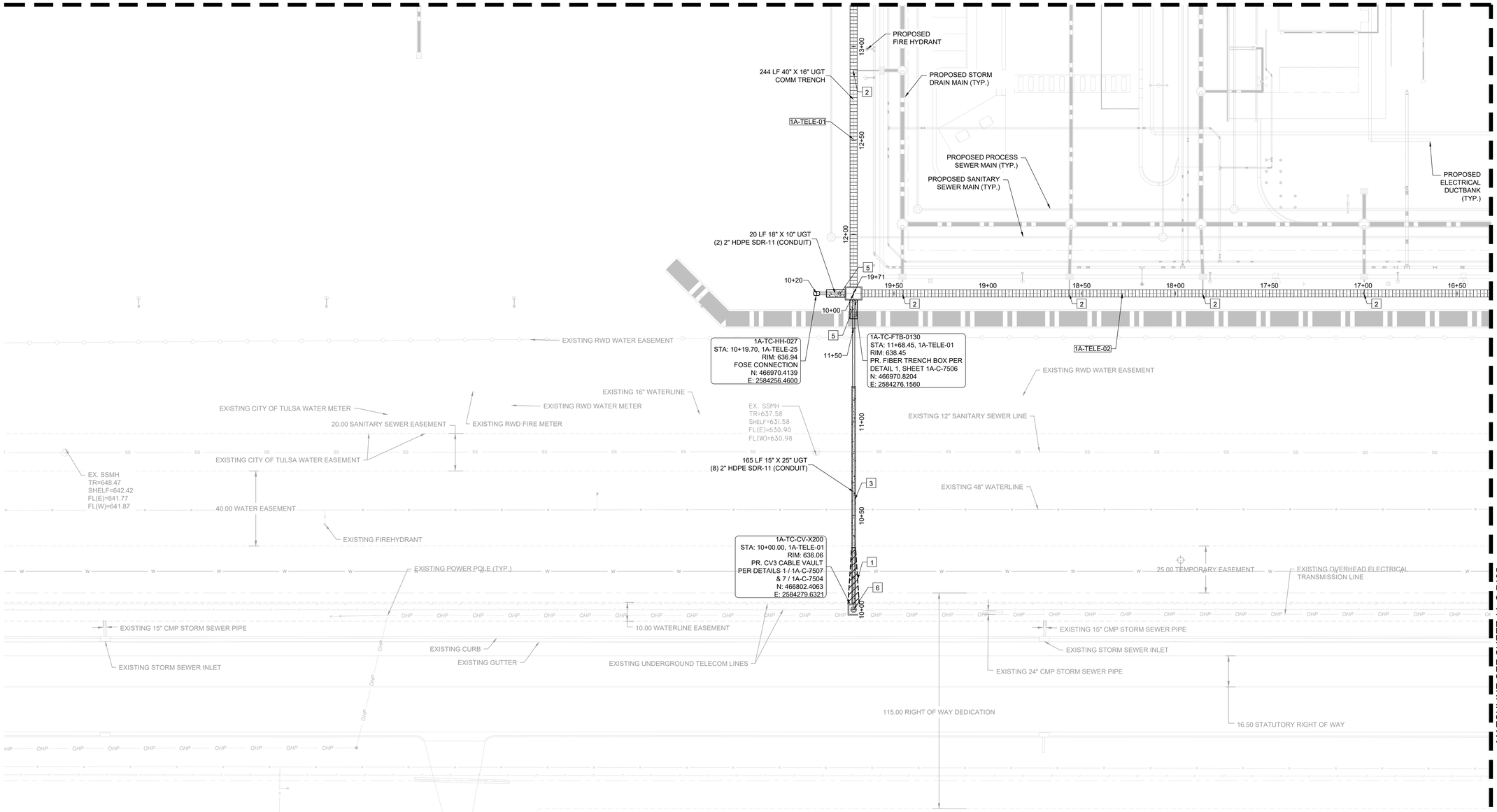
TELECOM PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7112



LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

1. ELECTRICAL AND TELECOM CONVEYANCE APPEAR ON ON CIVIL PLANS, PROFILES, AND DETAILS FOR SPATIAL COORDINATION OF SITE UTILITIES. REFER TO ELECTRICAL AND TELECOM CONTRACT DOCUMENTS FOR ELECTRICAL AND TELECOM REQUIREMENTS
2. PRIOR TO COMMENCEMENT OF WORK ON SITE, VERIFY LOCATIONS OF ADJACENT TELECOM WORK AND WORK BY OTHER TRADES AND COORDINATE TO RESOLVE SPATIAL CONFLICTS. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
3. PRIOR TO COMMENCEMENT OF WORK ON SITE, IDENTIFY TELECOM CONDUIT DUCT BANK SEGMENTS THAT MAY EXCEED MAXIMUM 180° BEND IN CONDUITS BETWEEN PULL POINTS AFTER INSTALLATION AND COORDINATE ROUTING AND PULL POINT LOCATIONS TO RESOLVE OVERAGE IN CUMULATIVE BEND. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
4. SEE SHEETS 1A-C-7500 TO 1A-C-7509 FOR DETAILS.
5. CONDUITS SHALL NOT BE SPLICED.
6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
7. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
8. INCOMING CONDUIT ANGLES ARE SHOWN FOR INTENT PURPOSE ONLY. EXACT ANGLE OF CONDUIT COMING INTO THE BUILDING WILL BE FIELD COORDINATED WITH CONDUIT AS IT EXITS CABLE VAULT. ALL WILL TURN UP 90° VERTICAL AND STUB THROUGH SLAB NO LESS THAN 6" IN ORDER TO BE EXTENDED INTO POE BOX AT A LATER TIME.
9. PROPOSED TELECOM ROUTING FROM EXISTING VAULTS TO BUILDING CONNECTIONS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONNECTION DO NOT EXCEED BEND RADII REQUIREMENTS. IF FIELD DISCREPANCIES ARE FOUND NOTIFY ENGINEER AND OWNER IMMEDIATELY.
10. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
11. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.
12. LOCKABLE LIDS REQUIRED AT EACH ZCV AND CV OUTSIDE SECURE PERIMETER FENCE AND AT EACH CV IN CONVEYANCE PATHWAY CONNECTING ZCV TO DC.
13. TRACER WIRE REQUIRED THROUGHOUT EACH SECTION OF BURIED CONDUIT DUCT BANK TELECOM CONVEYANCE, REFER TO SPECIFICATION 33 81 26, SECTION 2.10B AND 3.2R
14. REFER TO TELECOM CONTRACT DOCUMENTS FOR TELECOM CABLE, ROUTING, ETC. INFORMATION AND REQUIREMENTS.
15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

MATCHLINE SEE SHEET 1A-C-7105

KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
4. CAST-IN-PLACE TELECOM FIBER TRENCH CROSSING DRIVEABLE AREA. PER DETAILS 1 / 1A-C-7502, 1 & 6 / 1A-C-7503 WITH STEEL TRAFFIC RATED LIDS PER DETAIL 2, SHEET 1A-C-7501.
5. CONCRETE CONDUIT CAP WHERE CONDUIT TERMINATES AT FIBER TRENCH OR FIBER TRENCH BOX PER DETAIL 6, SHEET 1A-C-7501.
6. CONNECT NEW TELECOM CONVEYANCE TO EXISTING TELECOM CONVEYANCE. PRIOR TO INSTALLATION, COORDINATE WITH OWNER TO IDENTIFY ACTIVE CABLING IN OR NEAR WORK AREA, AND PROTECT EXISTING WORK TO MAINTAIN EXISTING CONDITION THROUGHOUT DURATION OF WORK IN AREA.
7. MINIMUM CLEARANCE ELECTRICAL DUCT BANK CROSSING. TERMINATE TRENCH UNDERDRAIN 5' EITHER SIDE OF DUCT BANK.

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7104

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7113

MATCHLINE SEE SHEET 1A-C-7104

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PROPOSED ELECTRICAL DUCTBANK (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

FIRE PUMP/TANK

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED DOMESTIC WATER MAIN (TYP.)

16+00 15+50 15+00 14+50 14+00 13+50 13+00 12+50 12+00 11+50 11+00 10+50 10+00 39+50 39+00 39+50 40+00 40+50

5 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-017 RIM: 638.43

5 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-016 RIM: 638.39

1A-TELE-02

967 LF 40" X 16" UGT COMM TRENCH

PROPOSED FIRE HYDRANT

5 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-015 RIM: 638.38

5 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-014 RIM: 638.40

918 LF 40" X 16" UGT COMM TRENCH

1A-TELE-01

1A-TC-FTB-0120
STA: 39+84.53, 1A-TELE-01
RIM: 638.55
PR. FIBER TRENCH BOX PER DETAIL 1, SHEET 1A-C-7506
N: 466990.8681
E: 2585247.4492

96 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-030 RIM: 624.22

EXISTING RWD WATER EASEMENT

EXISTING 16" WATERLINE

EXISTING 12" SANITARY SEWER LINE

EX. SSMH
TR=627.07
SHELF=620.42
FL(E)=620.67
FL(W)=620.77

20.00 SANITARY SEWER EASEMENT

40.00 WATER EASEMENT

EX. SSMH
TR=626.20
SHELF=618.40
FL(E)=617.70
FL(W)=617.80

EXISTING 48" WATERLINE

EXISTING TELECOM STRUCTURES

EXISTING UNDERGROUND TELECOM LINES

EXISTING UNDERGROUND TELECOM LINE

EXISTING POWER POLE (TYP.)

BARBED WIRE FENCE TO BE REMOVED

EXISTING TELECOM STRUCTURE

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING STORM SEWER LINE

10.00 WATERLINE EASEMENT

EXISTING TRAFFIC SIGNAL

EXISTING STORM SEWER LINE

EXISTING CURB

EXISTING GUTTER

EXISTING STORM SEWER INLET

EXISTING STORM SEWER INLET

115.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

EXISTING TELECOM STRUCTURES

LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

1. ELECTRICAL AND TELECOM CONVEYANCE APPEAR ON ON CIVIL PLANS, PROFILES, AND DETAILS FOR SPATIAL COORDINATION OF SITE UTILITIES. REFER TO ELECTRICAL AND TELECOM CONTRACT DOCUMENTS FOR ELECTRICAL AND TELECOM REQUIREMENTS
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4. SEE SHEETS 1A-C-7500 TO 1A-C-7509 FOR DETAILS.
5. CONDUITS SHALL NOT BE SPLICED.
6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
7. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
8. INCOMING CONDUIT ANGLES ARE SHOWN FOR INTENT PURPOSE ONLY. EXACT ANGLE OF CONDUIT COMING INTO THE BUILDING WILL BE FIELD COORDINATED WITH CONDUIT AS IT EXITS CABLE VAULT. ALL WILL TURN UP 90° VERTICAL AND STUB THROUGH SLAB NO LESS THAN 6" IN ORDER TO BE EXTENDED INTO POE BOX AT A LATER TIME.
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14. REFER TO TELECOM CONTRACT DOCUMENTS FOR TELECOM CABLE, ROUTING, ETC. INFORMATION AND REQUIREMENTS.
15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
4. CAST-IN-PLACE TELECOM FIBER TRENCH CROSSING DRIVEABLE AREA. PER DETAILS 1 / 1A-C-7502, 1 & 6 / 1A-C-7503 WITH STEEL TRAFFIC RATED LIDS PER DETAIL 2, SHEET 1A-C-7501.
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7. MINIMUM CLEARANCE ELECTRICAL DUCT BANK CROSSING. TERMINATE TRENCH UNDERDRAIN 5' EITHER SIDE OF DUCT BANK.

N

0' 10' 20' 40'
SCALE IN FEET

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

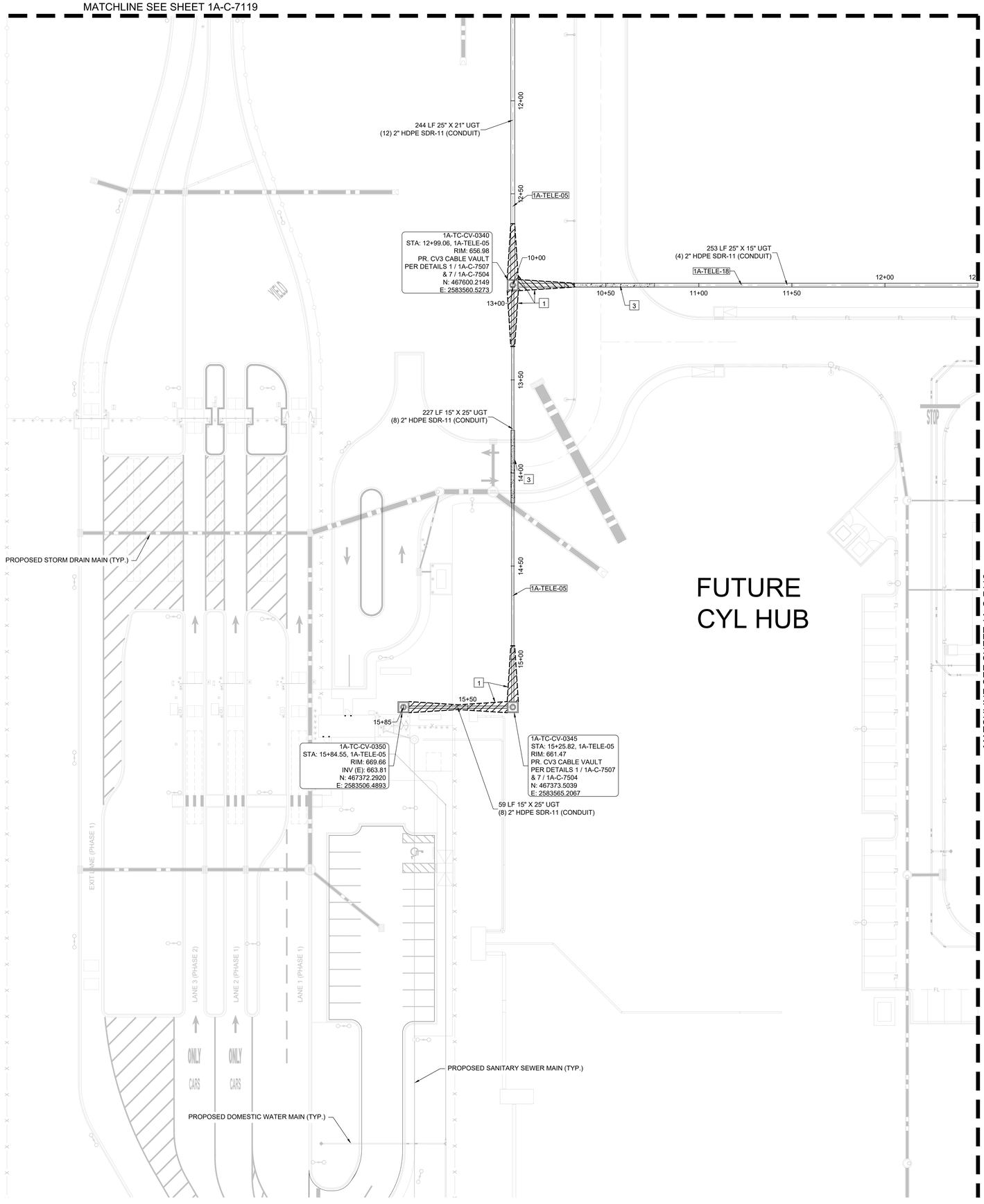
TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7119



LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

1. ELECTRICAL AND TELECOM CONVEYANCE APPEAR ON ON CIVIL PLANS, PROFILES, AND DETAILS FOR SPATIAL COORDINATION OF SITE UTILITIES. REFER TO ELECTRICAL AND TELECOM CONTRACT DOCUMENTS FOR ELECTRICAL AND TELECOM REQUIREMENTS
2. PRIOR TO COMMENCEMENT OF WORK ON SITE, VERIFY LOCATIONS OF ADJACENT TELECOM WORK AND WORK BY OTHER TRADES AND COORDINATE TO RESOLVE SPATIAL CONFLICTS. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
3. PRIOR TO COMMENCEMENT OF WORK ON SITE, IDENTIFY TELECOM CONDUIT DUCT BANK SEGMENTS THAT MAY EXCEED MAXIMUM 180° BEND IN CONDUITS BETWEEN PULL POINTS AFTER INSTALLATION AND COORDINATE ROUTING AND PULL POINT LOCATIONS TO RESOLVE OVERAGE IN CUMULATIVE BEND. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
4. SEE SHEETS 1A-C-7500 TO 1A-C-7509 FOR DETAILS.
5. CONDUITS SHALL NOT BE SPLICED.
6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
7. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
8. INCOMING CONDUIT ANGLES ARE SHOWN FOR INTENT PURPOSE ONLY. EXACT ANGLE OF CONDUIT COMING INTO THE BUILDING WILL BE FIELD COORDINATED WITH CONDUIT AS IT EXITS CABLE VAULT. ALL WILL TURN UP 90° VERTICAL AND STUB THROUGH SLAB NO LESS THAN 6" IN ORDER TO BE EXTENDED INTO POE BOX AT A LATER TIME.
9. PROPOSED TELECOM ROUTING FROM EXISTING VAULTS TO BUILDING CONNECTIONS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONNECTION DO NOT EXCEED BEND RADII REQUIREMENTS. IF FIELD DISCREPANCIES ARE FOUND NOTIFY ENGINEER AND OWNER IMMEDIATELY.
10. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
11. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.
12. LOCKABLE LIDS REQUIRED AT EACH ZCV AND CV OUTSIDE SECURE PERIMETER FENCE AND AT EACH CV IN CONVEYANCE PATHWAY CONNECTING ZCV TO DC.
13. TRACER WIRE REQUIRED THROUGHOUT EACH SECTION OF BURIED CONDUIT DUCT BANK TELECOM CONVEYANCE, REFER TO SPECIFICATION 33 81 26, SECTION 2.10B AND 3.2R
14. REFER TO TELECOM CONTRACT DOCUMENTS FOR TELECOM CABLE, ROUTING, ETC. INFORMATION AND REQUIREMENTS.
15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

MATCHLINE SEE SHEET 1A-C-7112

KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
4. CAST-IN-PLACE TELECOM FIBER TRENCH CROSSING DRIVEABLE AREA. PER DETAILS 1 / 1A-C-7502, 1 & 6 / 1A-C-7503 WITH STEEL TRAFFIC RATED LIDS PER DETAIL 2, SHEET 1A-C-7501.
5. CONCRETE CONDUIT CAP WHERE CONDUIT TERMINATES AT FIBER TRENCH OR FIBER TRENCH BOX PER DETAIL 6, SHEET 1A-C-7501.
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7. MINIMUM CLEARANCE ELECTRICAL DUCT BANK CROSSING. TERMINATE TRENCH UNDERDRAIN 5' EITHER SIDE OF DUCT BANK.

N

0' 10' 20' 40'
SCALE IN FEET

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OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7111
PAPER SIZE: E (36"x48")
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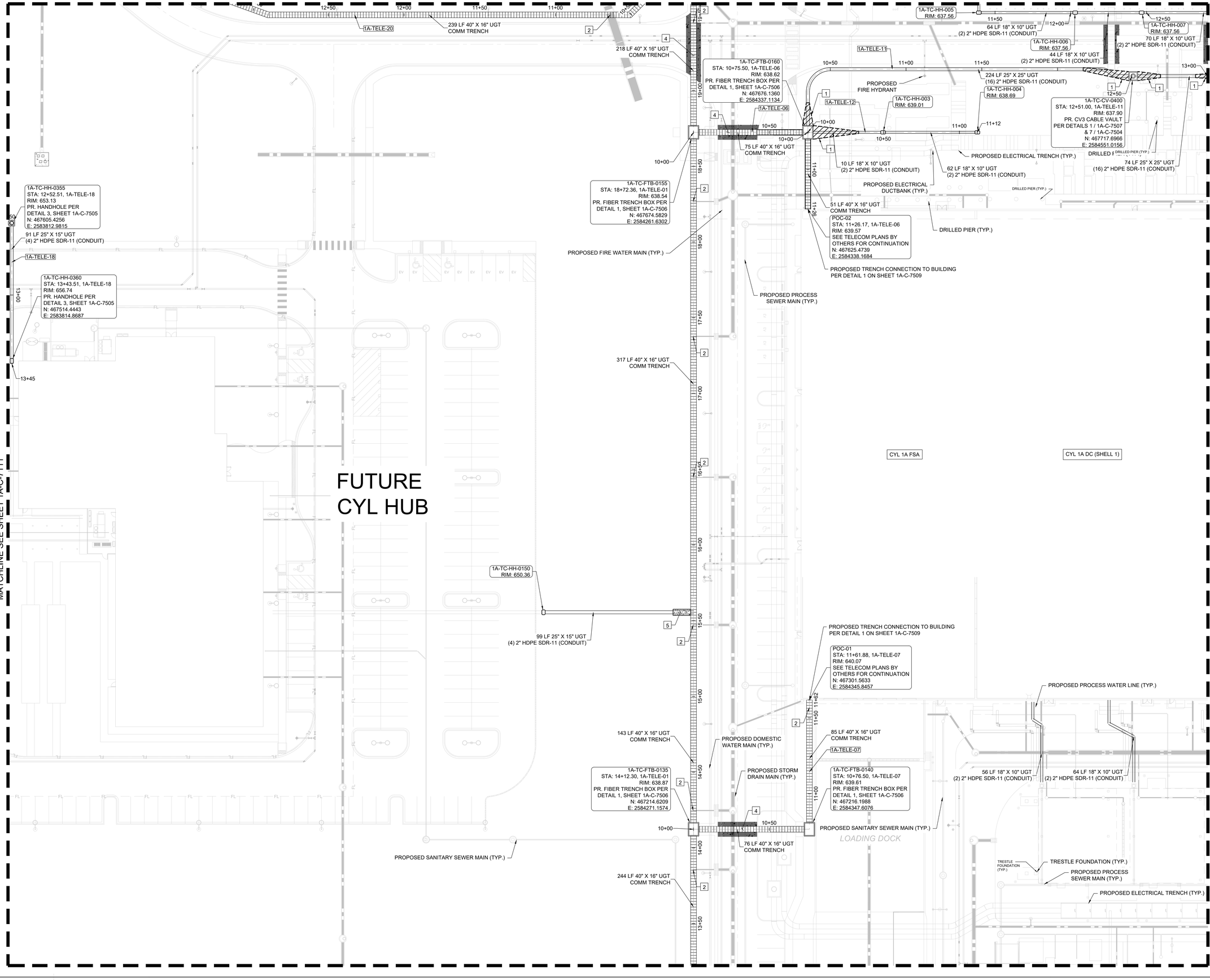

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KEY NOTES

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LICENSED PROFESSIONAL ENGINEER — DEAN RANDALL — OKLAHOMA — 04/09/2026

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KEYPLAN

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7112
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7121

MATCHLINE SEE SHEET 1A-C-7112

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13+00 13+50 14+00 14+50 15+00 15+50 16+00 16+50 17+00 17+50 18+00 18+47

1A-TC-HH-008 RIM: 637.56

135 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-009 RIM: 637.56

95 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-010 RIM: 637.56

56 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-011 RIM: 637.56

186 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TELE-10

80 LF 25" X 25" UGT (16) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-012 RIM: 637.56

58 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-013 RIM: 637.56

80 LF 25" X 25" UGT (16) 2" HDPE SDR-11 (CONDUIT)

248 LF 25" X 25" UGT (16) 2" HDPE SDR-11 (CONDUIT)

1A-TELE-11

PROPOSED FIRE HYDRANT

74 LF 25" X 25" UGT (16) 2" HDPE SDR-11 (CONDUIT)

1A-TC-CV-0401
STA: 13+25.14, 1A-TELE-11
RIM: 637.88
PR. CV3 CABLE VAULT
PER DETAILS 1 / 1A-C-7507
& 7 / 1A-C-7504
N: 467719.2467
E: 2584625.1483

1A-TC-CV-0402
STA: 14+05.05, 1A-TELE-11
RIM: 637.86
PR. CV3 CABLE VAULT
PER DETAILS 1 / 1A-C-7507
& 7 / 1A-C-7504
N: 467720.8956
E: 2584705.0367

1A-TC-CV-040
STA: 16+52.94, 1A-TELE-11
RIM: 637.90
PR. CV3 CABLE VAULT
PER DETAILS 1 / 1A-C-7507
& 7 / 1A-C-7504
N: 467725.9681
E: 2584950.7935

1A-TC-CV-0403
STA: 17+27.09, 1A-TELE-11
RIM: 637.89
PR. CV3 CABLE VAULT
PER DETAILS 1 / 1A-C-7507
& 7 / 1A-C-7504
N: 467727.4982
E: 2585024.9266

1A-TC-CV-0404
STA: 18+07.01, 1A-TELE-11
RIM: 637.89
PR. CV3 CABLE VAULT
PER DETAILS 1 / 1A-C-7507
& 7 / 1A-C-7504
N: 467729.1568
E: 2585104.8242

DRILLED PIER (TYP.)

DRILLED PIER (TYP.)

1A-TELE-13

39 LF 15" X 25" UGT (8) 2" HDPE SDR-11 (CONDUIT)

PROPOSED ELECTRICAL TRENCH (TYP.)

1A-TELE-14

38 LF 15" X 25" UGT (8) 2" HDPE SDR-11 (CONDUIT)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

32+00 32+50 33+00 33+50 34+00 34+50 35+00 35+50 36+00 36+50 37+00 37+50 38+00

918 LF 40" X 16" UGT COMM TRENCH

CYL 1A DC (SHELL 1)

CYL 1A DC (SHELL 2)

SHELL 1

SHELL 2

56 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

56 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

54 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

61 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

59 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

57 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

54 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

54 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

54 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

63 LF 18" X 10" UGT (2) 2" HDPE SDR-11 (CONDUIT)

PROPOSED PROCESS WATER LINE (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED ELECTRICAL TRENCH (TYP.)

PROPOSED ELECTRICAL DUCTBANK (TYP.)

LEGEND

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CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION ADDENDUM #1

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1A-C-7113

PAPER SIZE: E (36"x48")
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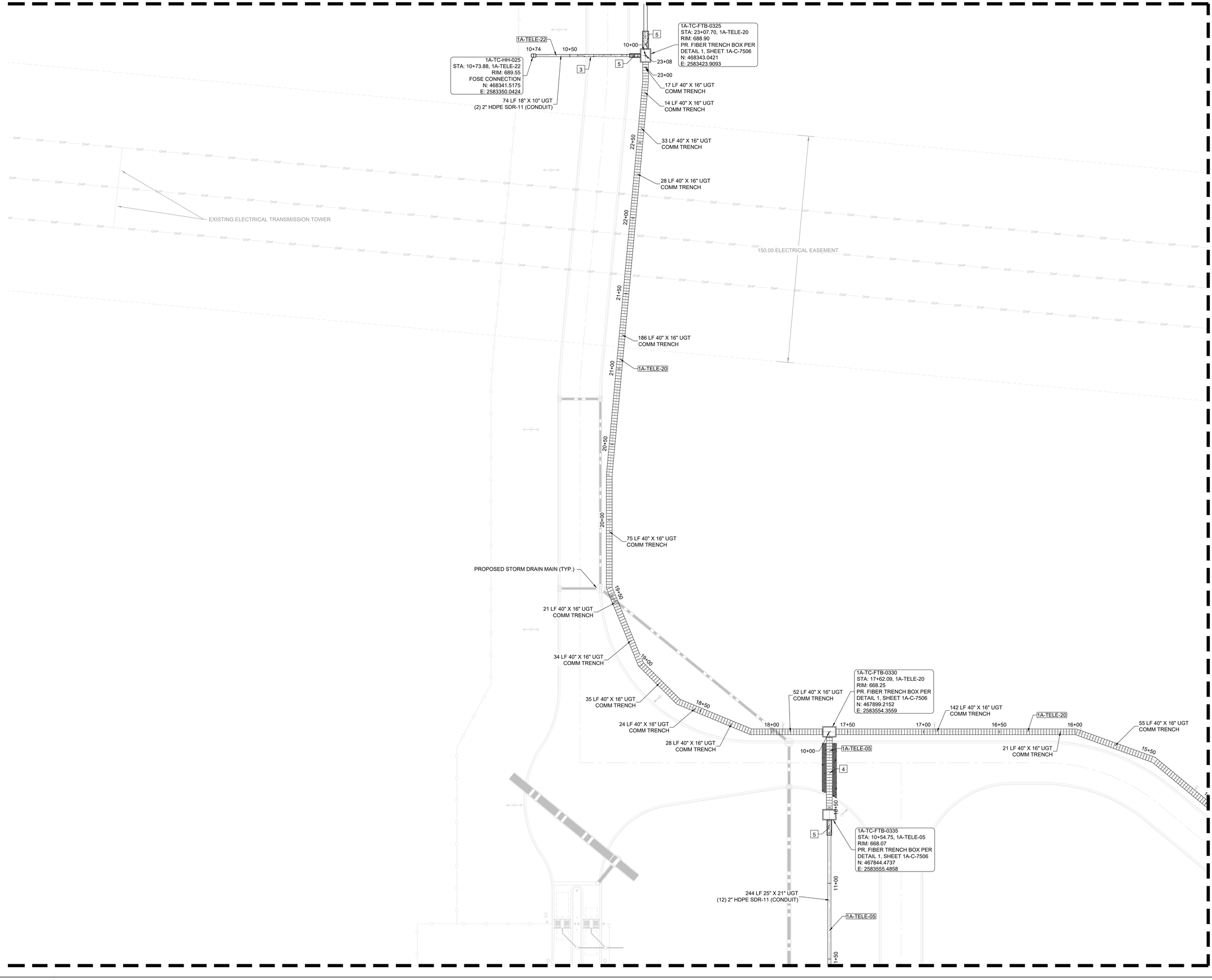
MATCHLINE SEE SHEET 1A-C-7127



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3. PRIOR TO COMMENCEMENT OF WORK ON SITE, IDENTIFY TELECOM CONDUIT DUCT BANK SEGMENTS THAT MAY EXCEED MAXIMUM 180° BEND IN CONDUITS BETWEEN PULL POINTS AFTER INSTALLATION AND COORDINATE ROUTING AND PULL POINT LOCATIONS TO RESOLVE OVERAGE IN CUMULATIVE BEND. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
4. SEE SHEETS 1A-C-7500 TO 1A-C-7509 FOR DETAILS.
5. CONDUITS SHALL NOT BE SPLICED.
6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
7. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
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9. PROPOSED TELECOM ROUTING FROM EXISTING VAULTS TO BUILDING CONNECTIONS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONNECTION DO NOT EXCEED BEND RADII REQUIREMENTS. IF FIELD DISCREPANCIES ARE FOUND NOTIFY ENGINEER AND OWNER IMMEDIATELY.
10. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
11. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.
12. LOCKABLE LIDS REQUIRED AT EACH ZCV AND CV OUTSIDE SECURE PERIMETER FENCE AND AT EACH CV IN CONVEYANCE PATHWAY CONNECTING ZCV TO DC.
13. TRACER WIRE REQUIRED THROUGHOUT EACH SECTION OF BURIED CONDUIT DUCT BANK TELECOM CONVEYANCE, REFER TO SPECIFICATION 33 81 26, SECTION 2.10B AND 3.2R
14. REFER TO TELECOM CONTRACT DOCUMENTS FOR TELECOM CABLE, ROUTING, ETC. INFORMATION AND REQUIREMENTS.
15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

MATCHLINE SEE SHEET 1A-C-7120

KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
4. CAST-IN-PLACE TELECOM FIBER TRENCH CROSSING DRIVEABLE AREA. PER DETAILS 1 / 1A-C-7502, 1 & 6 / 1A-C-7503 WITH STEEL TRAFFIC RATED LIDS PER DETAIL 2, SHEET 1A-C-7501.
5. CONCRETE CONDUIT CAP WHERE CONDUIT TERMINATES AT FIBER TRENCH OR FIBER TRENCH BOX PER DETAIL 6, SHEET 1A-C-7501.
6. CONNECT NEW TELECOM CONVEYANCE TO EXISTING TELECOM CONVEYANCE. PRIOR TO INSTALLATION, COORDINATE WITH OWNER TO IDENTIFY ACTIVE CABLING IN OR NEAR WORK AREA, AND PROTECT EXISTING WORK TO MAINTAIN EXISTING CONDITION THROUGHOUT DURATION OF WORK IN AREA.
7. MINIMUM CLEARANCE ELECTRICAL DUCT BANK CROSSING. TERMINATE TRENCH UNDERDRAIN 5' EITHER SIDE OF DUCT BANK.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7101 TELECOM PLAN 6/19/2025 4:48 PM

HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7119
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7128

MATCHLINE SEE SHEET 1A-C-7119

MATCHLINE SEE SHEET 1A-C-7121

EXISTING ELECTRICAL TRANSMISSION TOWER

150.00 ELECTRICAL EASEMENT

1A-TC-HH-023
RIM: 628.79

127 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-022
RIM: 630.31

PERUN 1A

334 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

1A-TELE-21

1A-TELE-09

PROPOSED STORM DRAIN MAIN (TYP.)

1A-TC-FTB-0170
STA: 20+90.74, 1A-TELE-01
RIM: 636.20
PR. FIBER TRENCH BOX PER
DETAIL 1, SHEET 1A-C-7506
N: 467892.9159
E: 2584257.1238

1A-TC-FTB-01750
STA: 10+00.00, 1A-TELE-10
RIM: 636.89
PR. FIBER TRENCH BOX PER
DETAIL 1, SHEET 1A-C-7506
N: 467898.5953
E: 2584532.5693

1A-TC-HH-021
RIM: 635.06

276 LF 40" X 16" UGT
COMM TRENCH

1A-TELE-15

39 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

16 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

1A-TC-HH-018
RIM: 636.27

1A-TELE-10

139 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

218 LF 40" X 16" UGT
COMM TRENCH

1A-TC-FTB-0165
STA: 11+19.28, 1A-TELE-10
RIM: 637.63
PR. FIBER TRENCH BOX PER
DETAIL 1, SHEET 1A-C-7506
N: 467773.6586
E: 2584259.5853

1A-TELE-20

17 LF 40" X 16" UGT
COMM TRENCH

30 LF 40" X 16" UGT
COMM TRENCH

189 LF 40" X 16" UGT
COMM TRENCH

66 LF 40" X 16" UGT
COMM TRENCH

LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

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6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
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KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
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7. MINIMUM CLEARANCE ELECTRICAL DUCT BANK CROSSING. TERMINATE TRENCH UNDERDRAIN 5' EITHER SIDE OF DUCT BANK.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7101 TELECOM PLAN 6/19/2025 4:48 PM

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ADDENDUM #1

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7120

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET ######### (top)

MATCHLINE SEE SHEET 1A-C-7120 (left)

MATCHLINE SEE SHEET 1A-C-7122 (right)

PROPOSED SANITARY SEWER MAIN (TYP.)

1A-TC-HH-001
RIM: 628.21

14+57

14+50

14+00

PERUN 1A

131 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

13+50

1A-TC-HH-002
RIM: 629.33

13+00

12+50

3

12+00

1A-TELE-08

150.00 ELECTRICAL EASEMENT

EXISTING ELECTRICAL TRANSMISSION TOWER

308 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

11+50

11+00

PROPOSED ELECTRICAL
DUCTBANK (TYP.)

10+50

1A-TC-HH-024
RIM: 635.12

1A-TELE-08

18 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

692 LF 40" X 16" UGT
COMM TRENCH

1A-TELE-01

24+50 25+00 25+50 26+00 10+00 26+50 27+00 27+50 28+00 10+00 28+50 29+00 29+50 30+00 30+50

29 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

35 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

1A-TELE-17

PROPOSED ELECTRICAL TRENCH (TYP.)

10+35

1A-TC-HH-019
RIM: 635.91

10+36

1A-TC-HH-020
RIM: 635.95

PROPOSED STORM DRAIN MAIN (TYP.)

TEMPORARY SUBSTATION

3

11+50 11+64

1A-TC-HH-026
STA: 11+63.83, 1A-TELE-23
RIM: 620.86
FOSE CONNECTION
N: 468039.7753
E: 2585267.9622

159 LF 18" X 10" UGT
(2) 2" HDPE SDR-11 (CONDUIT)

11+00

10+50

1A-TC-FTB-0115
STA: 30+62.24, 1A-TELE-01
RIM: 634.26
PR. FIBER TRENCH BOX PER
DETAIL 1, SHEET 1A-C-7506
N: 467912.9594
E: 2585228.4170

TYPE 2 SECURITY FENCE

27+55 27+50 27+00 26+50 26+00

1A-TELE-03

650 LF 15" X 25" UGT
(8) 2" HDPE SDR-11 (COUNDUIT)

10+00

31+00

4

31+50

918 LF 40" X 16" UGT
COMM TRENCH

LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

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N

0' 10' 20' 40'
SCALE IN FEET

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CYL1A

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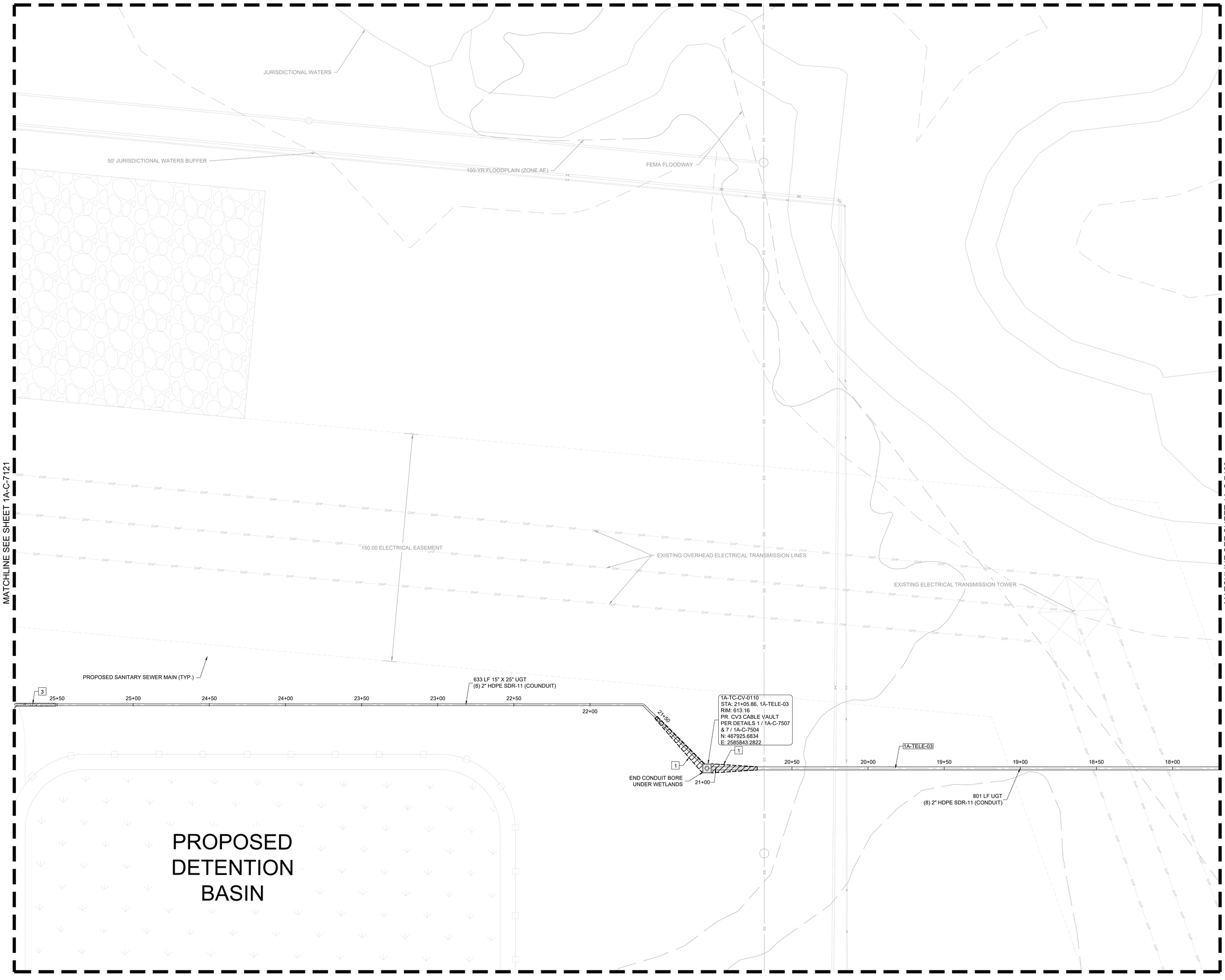
TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
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- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

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15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

KEY NOTES

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2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
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5. CONCRETE CONDUIT CAP WHERE CONDUIT TERMINATES AT FIBER TRENCH OR FIBER TRENCH BOX PER DETAIL 6, SHEET 1A-C-7501.
6. CONNECT NEW TELECOM CONVEYANCE TO EXISTING TELECOM CONVEYANCE. PRIOR TO INSTALLATION, COORDINATE WITH OWNER TO IDENTIFY ACTIVE CABLING IN OR NEAR WORK AREA, AND PROTECT EXISTING WORK TO MAINTAIN EXISTING CONDITION THROUGHOUT DURATION OF WORK IN AREA.

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

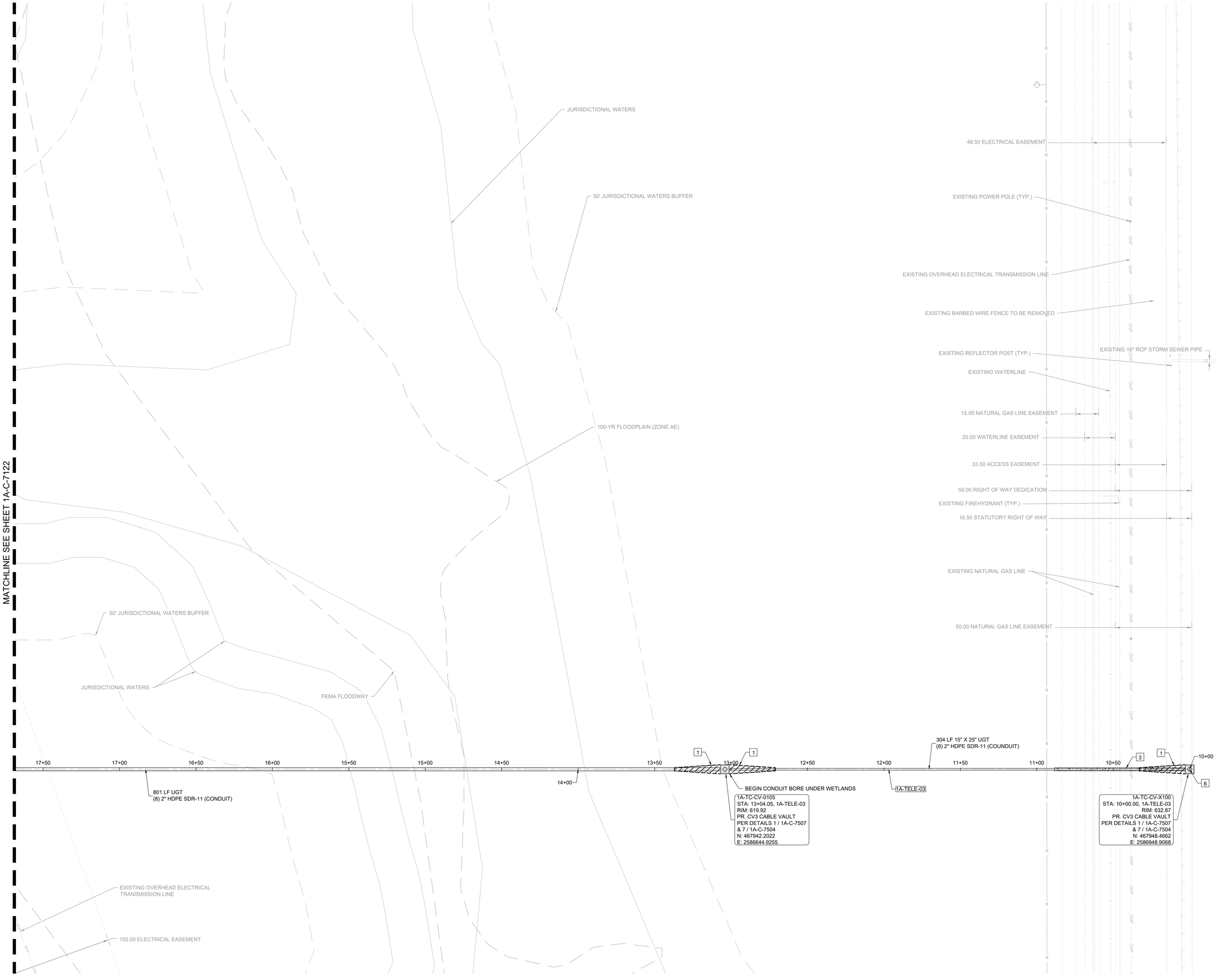
PROJ. NO.: 10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
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- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7123

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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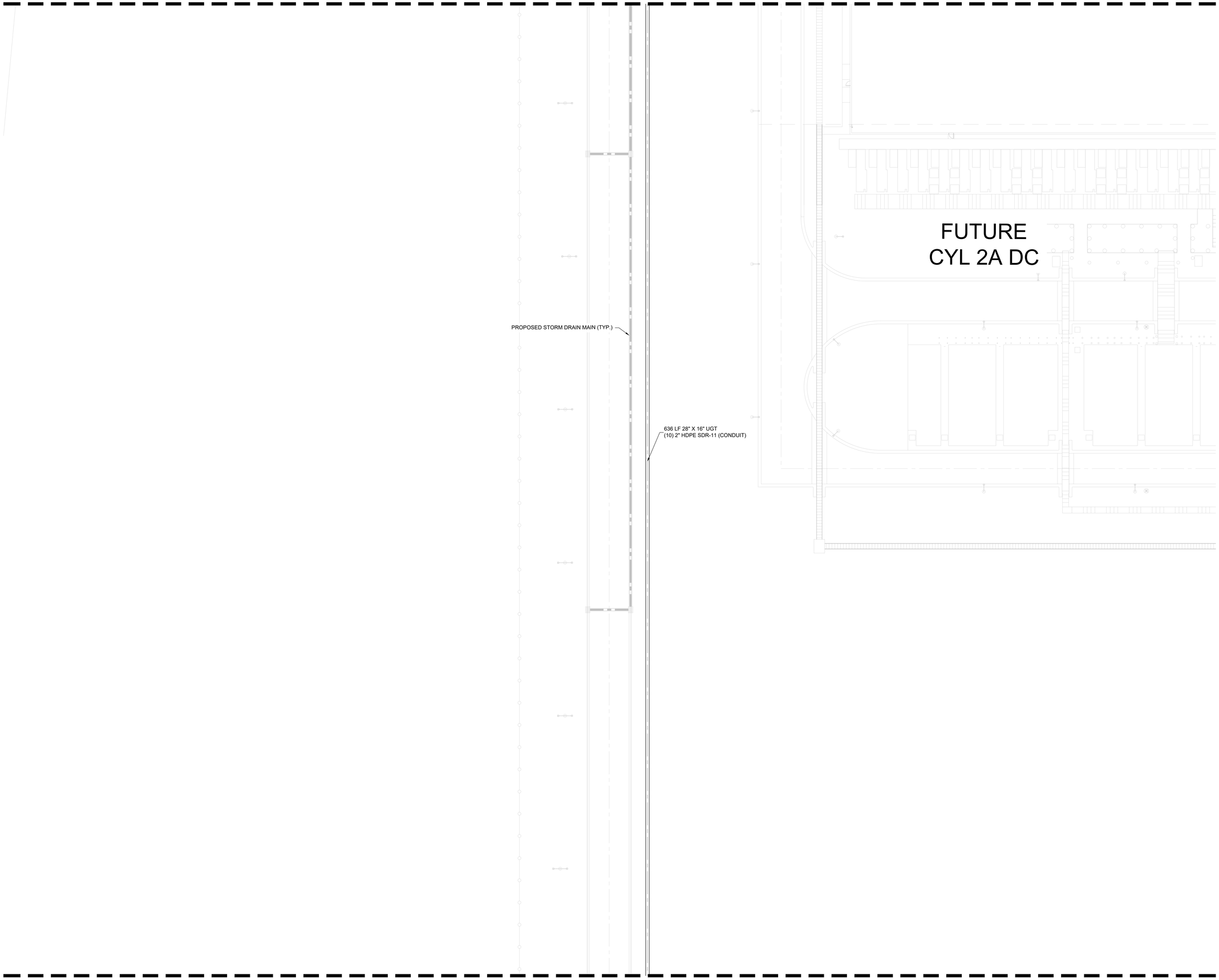

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- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

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SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7127

PAPER SIZE: E (36"x48")
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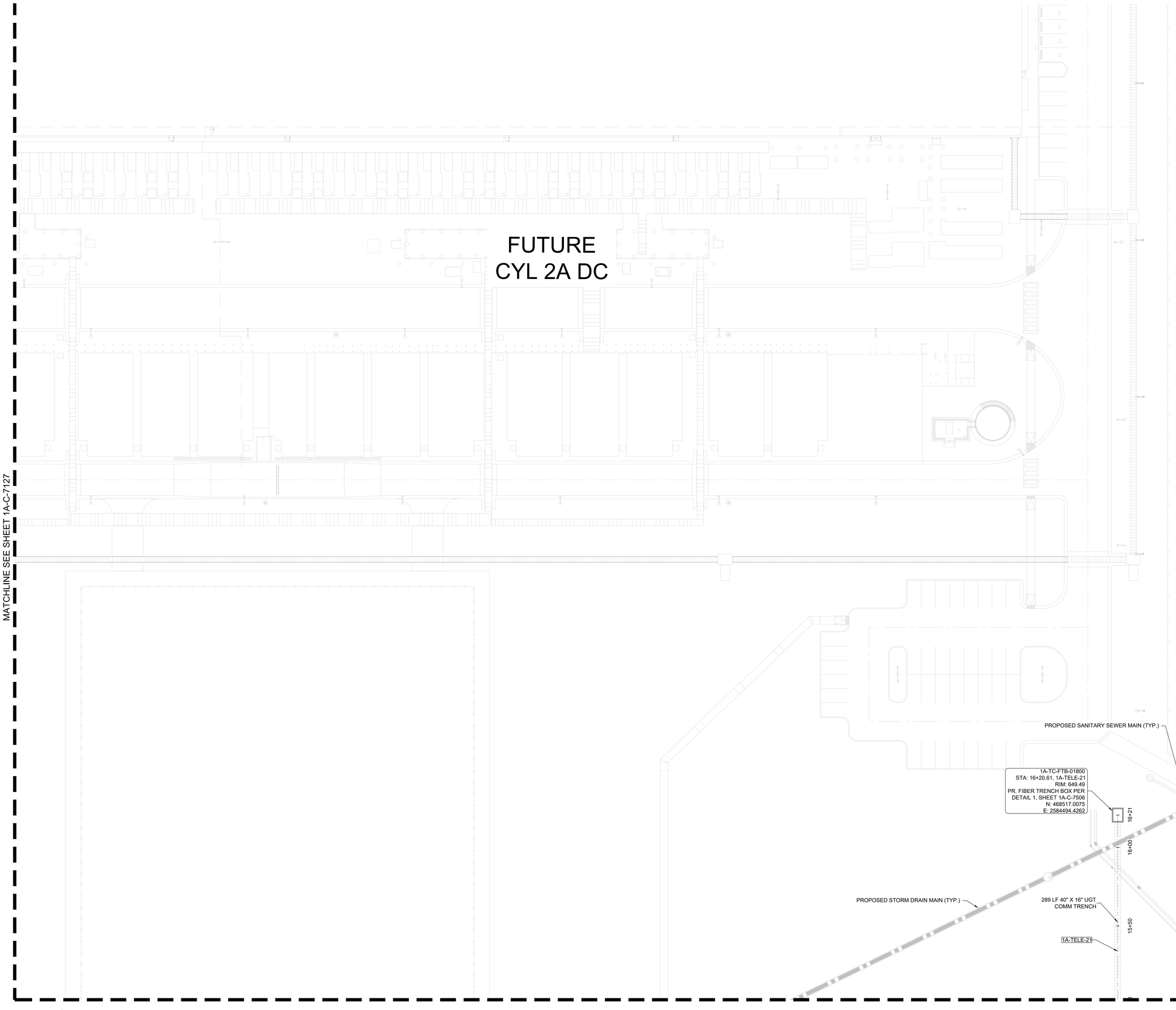

LEGEND

- TELECOMMUNICATIONS DUCTBANK
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N

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SCALE IN FEET

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HDR, INC.
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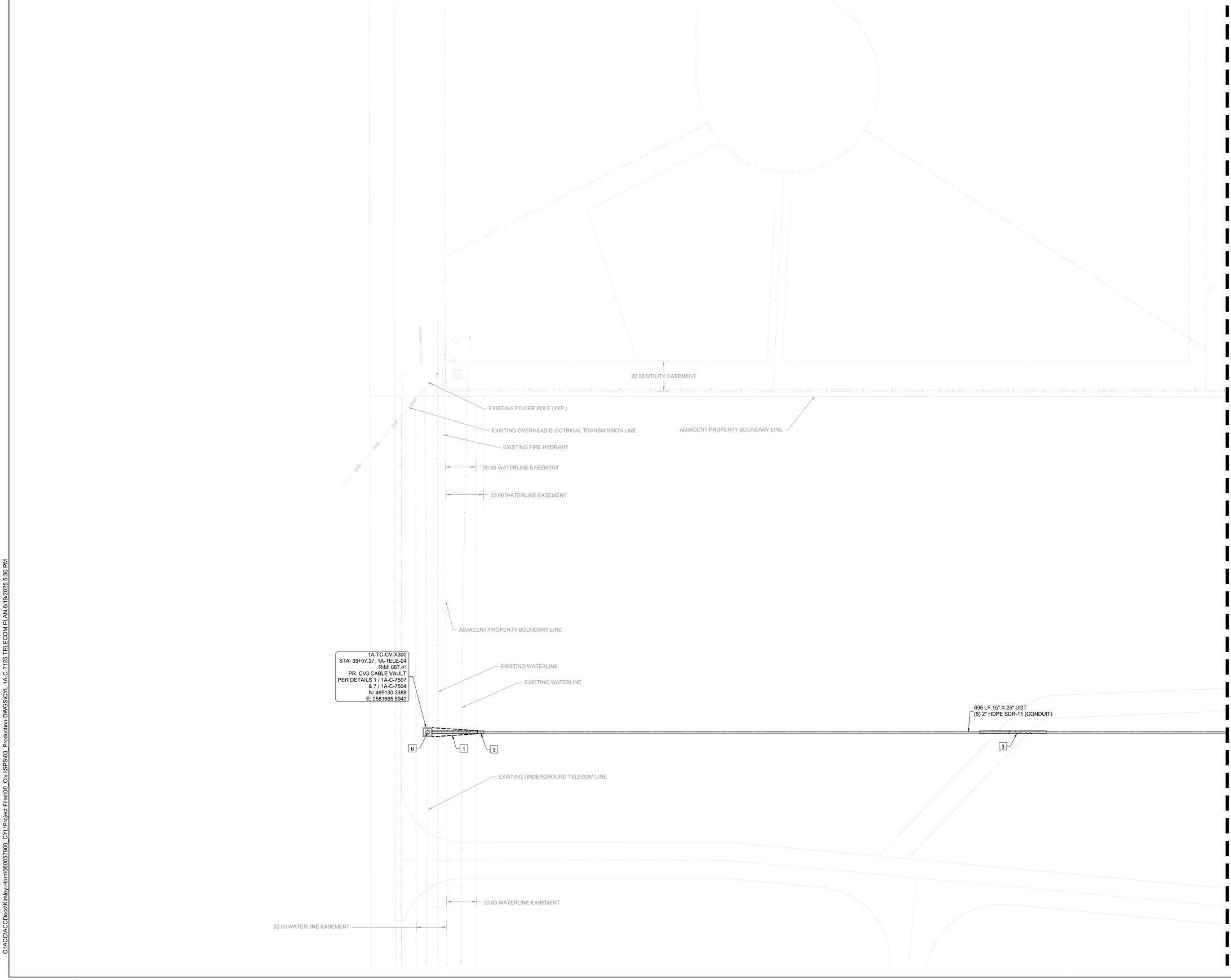
CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7128
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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15. REFER TO SECURITY CONTRACT DOCUMENTS FOR SECURITY INFORMATION AND REQUIREMENTS.

MATCHLINE SEE SHEET 1A-C-7134

KEY NOTES

1. APPROXIMATE LIMITS OF CONDUIT SPLAY, PER DETAIL 4, SHEET 1A-C-7505.
2. TELECOM FIBER TRENCH DRAIN CONNECTION TO STORM SEWER. REFER TO DETAIL 6 ON SHEET 1A-C-7502 FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
3. CONCRETE-ENCASED TELECOM CONDUIT DUCT BANK CROSSING DRIVEABLE AREA. PER DETAIL 1, SHEET 1A-C-7505.
4. CAST-IN-PLACE TELECOM FIBER TRENCH CROSSING DRIVEABLE AREA. PER DETAILS 1 / 1A-C-7502, 1 & 6 / 1A-C-7503 WITH STEEL TRAFFIC RATED LIDS PER DETAIL 2, SHEET 1A-C-7501.
5. CONCRETE CONDUIT CAP WHERE CONDUIT TERMINATES AT FIBER TRENCH OR FIBER TRENCH BOX PER DETAIL 6, SHEET 1A-C-7501.
6. CONNECT NEW TELECOM CONVEYANCE TO EXISTING TELECOM CONVEYANCE. PRIOR TO INSTALLATION, COORDINATE WITH OWNER TO IDENTIFY ACTIVE CABLING IN OR NEAR WORK AREA, AND PROTECT EXISTING WORK TO MAINTAIN EXISTING CONDITION THROUGHOUT DURATION OF WORK IN AREA.

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

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KEYPLAN

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

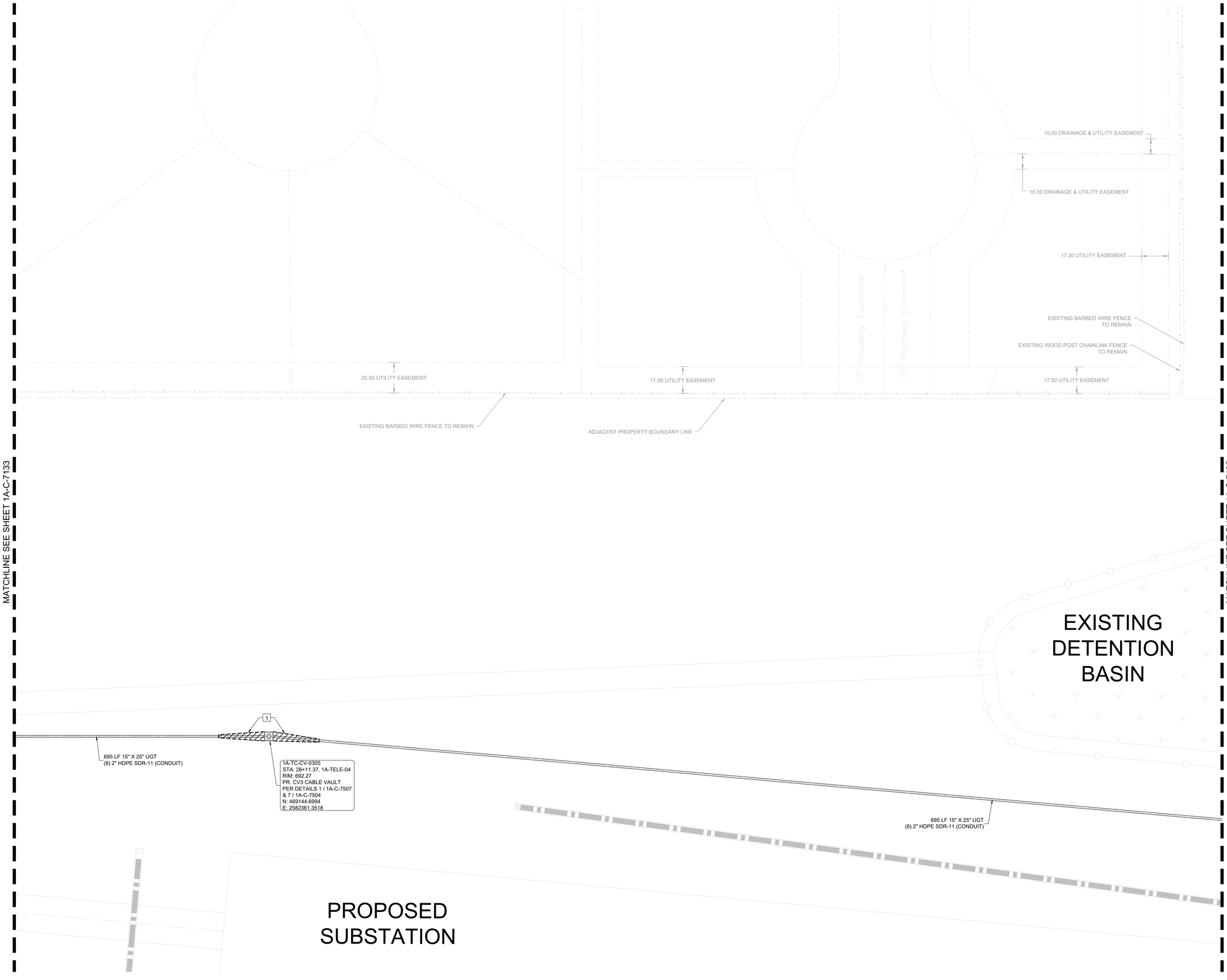
PROJ. NO.: 10434535

TELECOM PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7133

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- TELECOMMUNICATIONS DUCTBANK
- TELECOMMUNICATIONS DUCTBANK W/ PROTECTIVE CONCRETE ENCASEMENT
- TELECOMMUNICATIONS HANDHOLE (HH)
- TELECOMMUNICATIONS VAULT CV-3 (5' X 5' X 7')
- TELECOMMUNICATION TRENCH DUCT
- TELECOMMUNICATION TRENCH DUCT W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

NOTES

1. ELECTRICAL AND TELECOM CONVEYANCE APPEAR ON ON CIVIL PLANS, PROFILES, AND DETAILS FOR SPATIAL COORDINATION OF SITE UTILITIES. REFER TO ELECTRICAL AND TELECOM CONTRACT DOCUMENTS FOR ELECTRICAL AND TELECOM REQUIREMENTS
2. PRIOR TO COMMENCEMENT OF WORK ON SITE, VERIFY LOCATIONS OF ADJACENT TELECOM WORK AND WORK BY OTHER TRADES AND COORDINATE TO RESOLVE SPATIAL CONFLICTS. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
3. PRIOR TO COMMENCEMENT OF WORK ON SITE, IDENTIFY TELECOM CONDUIT DUCT BANK SEGMENTS THAT MAY EXCEED MAXIMUM 180° BEND IN CONDUITS BETWEEN PULL POINTS AFTER INSTALLATION AND COORDINATE ROUTING AND PULL POINT LOCATIONS TO RESOLVE OVERAGE IN CUMULATIVE BEND. RECONFIRM IN FIELD IMMEDIATELY PRIOR TO INSTALLATION.
4. SEE SHEETS 1A-C-7500 TO 1A-C-7509 FOR DETAILS.
5. CONDUITS SHALL NOT BE SPLICED.
6. PROVIDE MULE TAPE IN EACH TELECOM CONDUIT WITH TEN (10) FEET SLACK TIED OFF AND STORED NEATLY AT PULL POINTS.
7. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
8. INCOMING CONDUIT ANGLES ARE SHOWN FOR INTENT PURPOSE ONLY. EXACT ANGLE OF CONDUIT COMING INTO THE BUILDING WILL BE FIELD COORDINATED WITH CONDUIT AS IT EXITS CABLE VAULT. ALL WILL TURN UP 90° VERTICAL AND STUB THROUGH SLAB NO LESS THAN 6" IN ORDER TO BE EXTENDED INTO POE BOX AT A LATER TIME.
9. PROPOSED TELECOM ROUTING FROM EXISTING VAULTS TO BUILDING CONNECTIONS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONNECTION DO NOT EXCEED BEND RADII REQUIREMENTS. IF FIELD DISCREPANCIES ARE FOUND NOTIFY ENGINEER AND OWNER IMMEDIATELY.
10. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
11. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.
12. LOCKABLE LIDS REQUIRED AT EACH ZCV AND CV OUTSIDE SECURE PERIMETER FENCE AND AT EACH CV IN CONVEYANCE PATHWAY CONNECTING ZCV TO DC.
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N

0' 10' 20' 40'
SCALE IN FEET

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KIMLEY-HORN &
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
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KEYPLAN

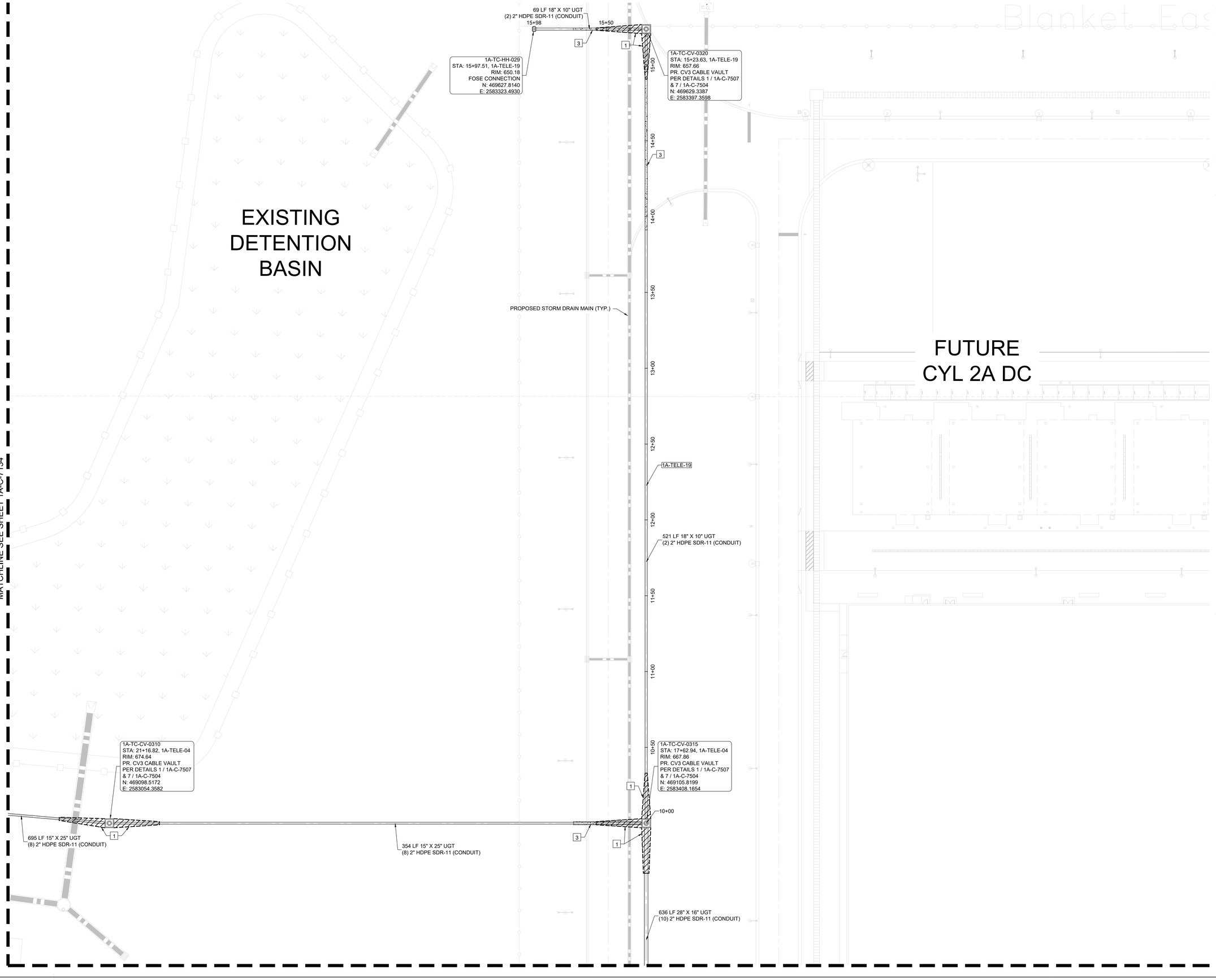
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7134
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

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- FIBER TRENCH BOX (FTB)
- SECURITY CAMERA POLE
- "NO-FLY / KEEP OUT ZONE"
- LIGHT DUTY CONCRETE PAVING PER DETAIL 2 SHEET 2A-C-2502

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11. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.
12. LOCKABLE LIDS REQUIRED AT EACH ZCV AND CV OUTSIDE SECURE PERIMETER FENCE AND AT EACH CV IN CONVEYANCE PATHWAY CONNECTING ZCV TO DC.
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KEY NOTES

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0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
DEREK RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

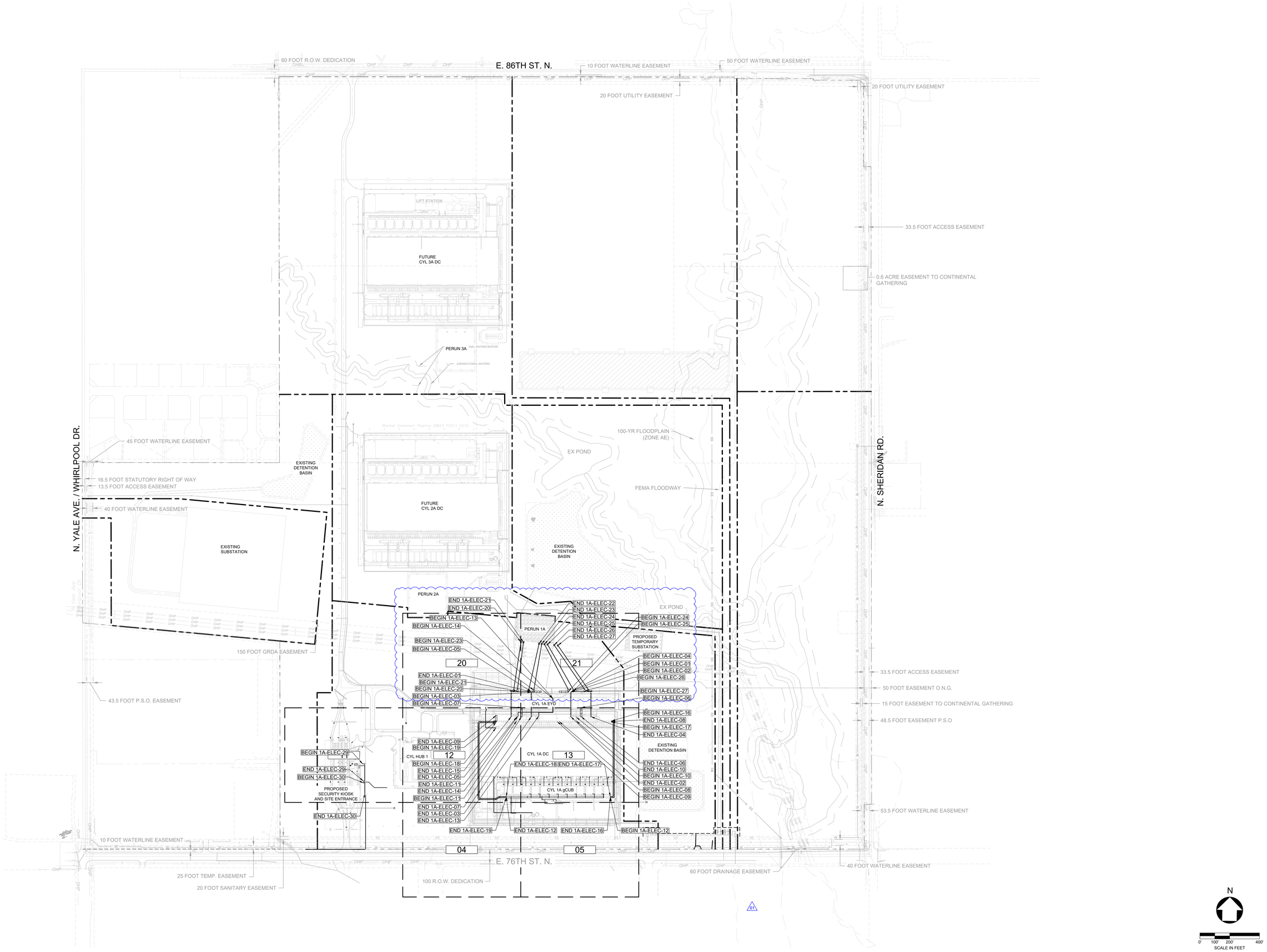
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7135
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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1917 SOUTH 67th STREET
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KIMLEY-HORN & ASSOCIATES, INC.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL 32522 OKLAHOMA 04/09/2026

TRADE SECRETS

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APPRV'D: DGR

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PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434535

ELECTRIC PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7200

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7212

PROPOSED TELECOM TENCH (TYP.)

PROPOSED FIRE HYDRANT

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED PROCESS WATER LINE (TYP.)

140 LF 18" X 10" UGE (2) 2" ELEC DB

TYPE 1 ELEC TRENCH

SEE ELECTRIC PLANS BY OTHERS FOR CONTINUATION

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

EX. SSMH
TR=637.58
SHELF=631.58
FL(E)=630.90
FL(W)=630.98

EXISTING 12" SANITARY SEWER LINE

20.00 SANITARY SEWER EASEMENT

EXISTING CITY OF TULSA WATER EASEMENT

EX. SSMH
TR=648.47
SHELF=642.42
FL(E)=641.77
FL(W)=641.87

40.00 WATER EASEMENT

EXISTING 48" WATERLINE

EXISTING FIREHYDRANT

EXISTING POWER POLE (TYP.)

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING 15" CMP STORM SEWER PIPE

10.00 WATERLINE EASEMENT

EXISTING 15" CMP STORM SEWER PIPE

EXISTING CURB

EXISTING GUTTER

EXISTING STORM SEWER INLET

EXISTING UNDERGROUND TELECOM LINES

EXISTING STORM SEWER INLET

EXISTING 24" CMP STORM SEWER PIPE

115.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

MATCHLINE SEE SHEET 1A-C-7205

LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- SECURITY CAMERA POLE

NOTES

1. SEE SHEETS 1A-C-7510 TO 1A-C-7512 FOR DETAILS.
2. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
3. INCOMING CONDUIT ANGLES ARE SHOWN FOR INTENT PURPOSE ONLY. EXACT ANGLE OF CONDUIT COMING INTO THE BUILDING WILL BE FIELD COORDINATED WITH CONDUIT AS IT EXITS CABLE VAULT. ALL WILL TURN UP 90° VERTICAL AND STUB THROUGH SLAB NO LESS THAN 6" IN ORDER TO BE EXTENDED INTO POE BOX AT A LATER TIME.
4. PROPOSED ELECTRIC ROUTING FROM EXISTING VAULTS TO BUILDING CONNECTIONS IS SCHEMATIC IN NATURE. THE CONTRACTOR SHALL FIELD VERIFY THAT THE CONNECTION DO NOT EXCEED BEND RADII REQUIREMENTS. IF FIELD DISCREPANCIES ARE FOUND NOTIFY ENGINEER AND OWNER IMMEDIATELY.
5. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
6. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.

KEY NOTES

1. ELECTRICAL TRENCH SUBDRAIN, SEE STRUCTURAL PLANS FOR DETAILS.

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
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KEYPLAN

REVISIONS		
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

ELECTRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7204

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7213

183 LF 2" ELEC CONDUIT

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

SEE ELECTRIC PLANS BY OTHERS FOR CONTINUATION

FIRE PUMP/TANK

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED FIRE HYDRANT

PROPOSED TELECOM TRENCH (TYP.)

EXISTING 12" SANITARY SEWER LINE

EX. SSMH
TR=627.07
SHELF=620.42
FL(E)=620.67
FL(W)=620.77

20.00 SANITARY SEWER EASEMENT

40.00 WATER EASEMENT

EX. SSMH
TR=626.20
SHELF=618.40
FL(E)=617.70
FL(W)=617.80

EXISTING 48" WATERLINE

EXISTING TELECOM STRUCTURES

EXISTING UNDERGROUND TELECOM LINES

EXISTING UNDERGROUND TELECOM LINE

EXISTING POWER POLE (TYP.)

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING TELECOM STRUCTURE

EXISTING STORM SEWER LINE

10.00 WATERLINE EASEMENT

EXISTING STORM SEWER LINE

EXISTING CURB

EXISTING GUTTER

EXISTING STORM SEWER INLET

EXISTING STORM SEWER INLET

115.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

EXISTING TELECOM STRUCTURES

MATCHLINE SEE SHEET 1A-C-7204

LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- SECURITY CAMERA POLE

NOTES

1. SEE SHEETS 1A-C-7510 TO 1A-C-7512 FOR DETAILS.
2. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
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N

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1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

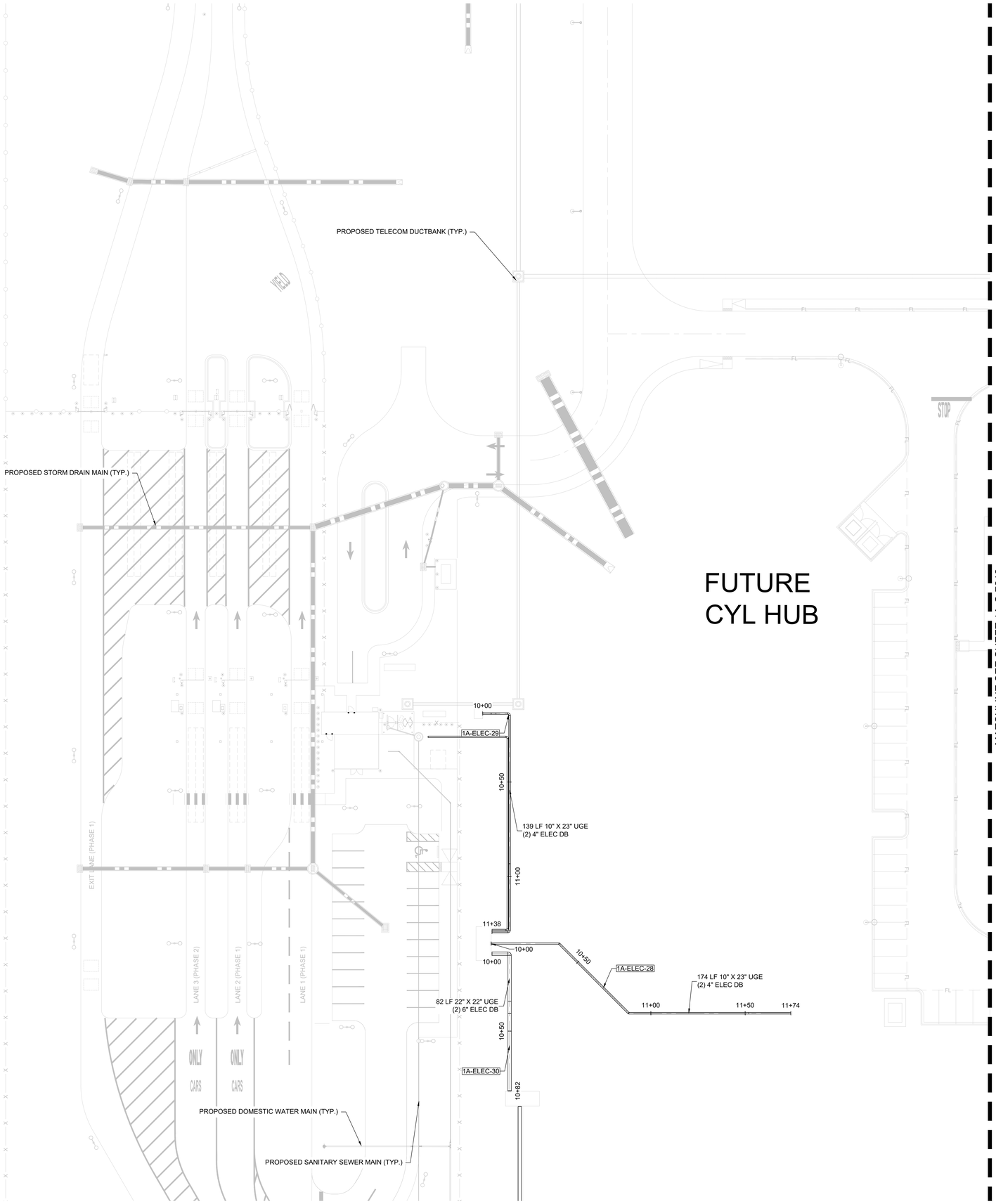
PROJ. NO.: 10434535

ELECTRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7205

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- SECURITY CAMERA POLE

NOTES

1. SEE SHEETS 1A-C-7510 TO 1A-C-7512 FOR DETAILS.
2. PROVIDE LONG RADIUS CONDUIT BENDS @ ALL CONDUIT TRANSITIONS. CONDUIT BENDS SHALL BE MAINTAINED AT 20X THE INSIDE DIAMETER OF THE CONDUIT.
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5. ALL PROPOSED DUCTBANK TO BE BACKFILLED WITH SAND EXCEPT AT ROAD CROSSING WHERE DUCT BANK IS TO BE CONCRETE ENCASED PER THE SPECIFICATIONS.
6. REFER TO TELECOM, ELECTRICAL, AND SECURITY SHEETS FOR 2" CONDUIT RUNS NOT SHOWN HERE.

KEY NOTES

1. ELECTRICAL TRENCH SUBDRAIN, SEE STRUCTURAL PLANS FOR DETAILS.

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7201 ELECTRIC PLAN 4/9/2026 5:48 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

ELECTRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7211

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7220

MATCHLINE SEE SHEET 1A-C-7211

MATCHLINE SEE SHEET 1A-C-7213

FUTURE
CYL HUB

PROPOSED TELECOM DUCTBANK (TYP.)

PROPOSED FIRE WATER MAIN (TYP.)

PROPOSED PROCESS SEWER MAIN (TYP.)

611 LF 40" X 22" UGE
(4) 6" ELEC DB

576 LF 40" X 22" UGE
(4) 6" ELEC DB

PROPOSED FIRE HYDRANT

ELECTRICAL TRENCH
TYPE 1 ROAD CROSSING

ELECTRICAL TRENCH
TYPE 2 ROAD CROSSING

1A-ELEC-05

1A-ELEC-14

351 LF
(2) 2" ELEC DB

TYPE 1 ELEC TRENCH

1A-ELEC-15

1A-ELEC-09

99 LF 18" X 10" UGE
(2) 2" ELEC DB

TYPE 3 ELEC TRENCH

1A-ELEC-11

TYPE 1 ELEC TRENCH

1A-ELEC-19

TYPE 3 ELEC TRENCH

1A-ELEC-09

1A-ELEC-18

DRILLED PIER (TYP.)

CYL 1A FSA

CYL 1A DC (SHELL 1)

OFFICE

111 LF 2" ELEC CONDUIT

89 LF 2" ELEC CONDUIT

PROPOSED DOMESTIC WATER MAIN (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED SANITARY SEWER MAIN (TYP.)

PROPOSED PROCESS WATER LINE (TYP.)

LOADING DOCK

TYPE 1 ELEC TRENCH

PROPOSED PROCESS
SEWER MAIN (TYP.)

TRESTLE FOUNDATION (TYP.)

1A-EL-EMH-001
STA: 15+76.18, 1A-ELEC-18
RIM: 639.24
N: 467197.3518
E: 2584331.3859

228 LF 40" X 22" UGE
(4) 6" ELEC DB

TYPE 3 ELEC TRENCH

1A-ELEC-12

140 LF 18" X 10" UGE
(2) 2" ELEC DB

1A-EL-EMH-002
STA: 16+10.67, 1A-ELEC-19
RIM: 639.12
N: 467176.1953
E: 2584325.0861

1A-ELEC-19

220 LF 40" X 22" UGE
(4) 6" ELEC DB

LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- SECURITY CAMERA POLE

NOTES

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KEY NOTES

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N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

ELECTRIC PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7212

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7221

MATCHLINE SEE SHEET 1A-C-7212

ELECTRICAL TRENCH TYPE 2 ROAD CROSSING
ELECTRICAL TRENCH TYPE 1 ROAD CROSSING
1A-ELEC-14
1A-ELEC-13
1A-ELEC-07
TYPE 2 ELEC TRENCH
TYPE 1 ELEC TRENCH
1A-ELEC-03
118 LF 18" X 10" UGE
(2) 2" ELEC DB
351 LF 18" X 10" UGE
(2) 2" ELEC DB
PROPOSED DOMESTIC WATER MAIN (TYP.)
1A-ELEC-02
1A-ELEC-06
1A-ELEC-04
PROPOSED FIRE HYDRANT
PROPOSED STORM DRAIN MAIN (TYP.)
DRILLED PIER (TYP.)
1A-ELEC-10
1A-ELEC-08
1A-ELEC-09
TYPE 3 ELEC TRENCH
PROPOSED FIRE WATER MAIN (TYP.)
PROPOSED TELECOM TRENCH (TYP.)
CYL 1A DC (SHELL 1)
CYL 1A DC (SHELL 2)
528 LF 40" X 22" UGE
(4) 6" ELEC DB
1A-ELEC-17
554 LF 40" X 22" UGE
(4) 6" ELEC DB
1A-ELEC-16
PROPOSED DOMESTIC WATER MAIN (TYP.)
SHELL 1
SHELL 2
79 LF 2" ELEC CONDUIT
70 LF 2" ELEC CONDUIT
60 LF 2" ELEC CONDUIT
77 LF 2" ELEC CONDUIT
65 LF 2" ELEC CONDUIT
78 LF 2" ELEC CONDUIT
60 LF 2" ELEC CONDUIT
61 LF 2" ELEC CONDUIT
60 LF 2" ELEC CONDUIT
69 LF 2" ELEC CONDUIT
PROPOSED PROCESS WATER LINE (TYP.)
34 LF 2" ELEC CONDUIT
33 LF 2" ELEC CONDUIT
32 LF 2" ELEC CONDUIT
PROPOSED PROCESS
SEWER MAIN (TYP.)
22 LF 2" ELEC CONDUIT
21 LF 2" ELEC CONDUIT
TYPE 3 ELEC TRENCH
103 LF 2" ELEC CONDUIT
123 LF 2" ELEC CONDUIT
1A-ELEC-12

LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- SECURITY CAMERA POLE

NOTES

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KEY NOTES

1. ELECTRICAL TRENCH SUBDRAIN, SEE STRUCTURAL PLANS FOR DETAILS.

N

0' 10' 20' 40'
SCALE IN FEET

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OMAHA, NE 68106
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KIMLEY-HORN &
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
#27621
OKLAHOMA
04/09/2026

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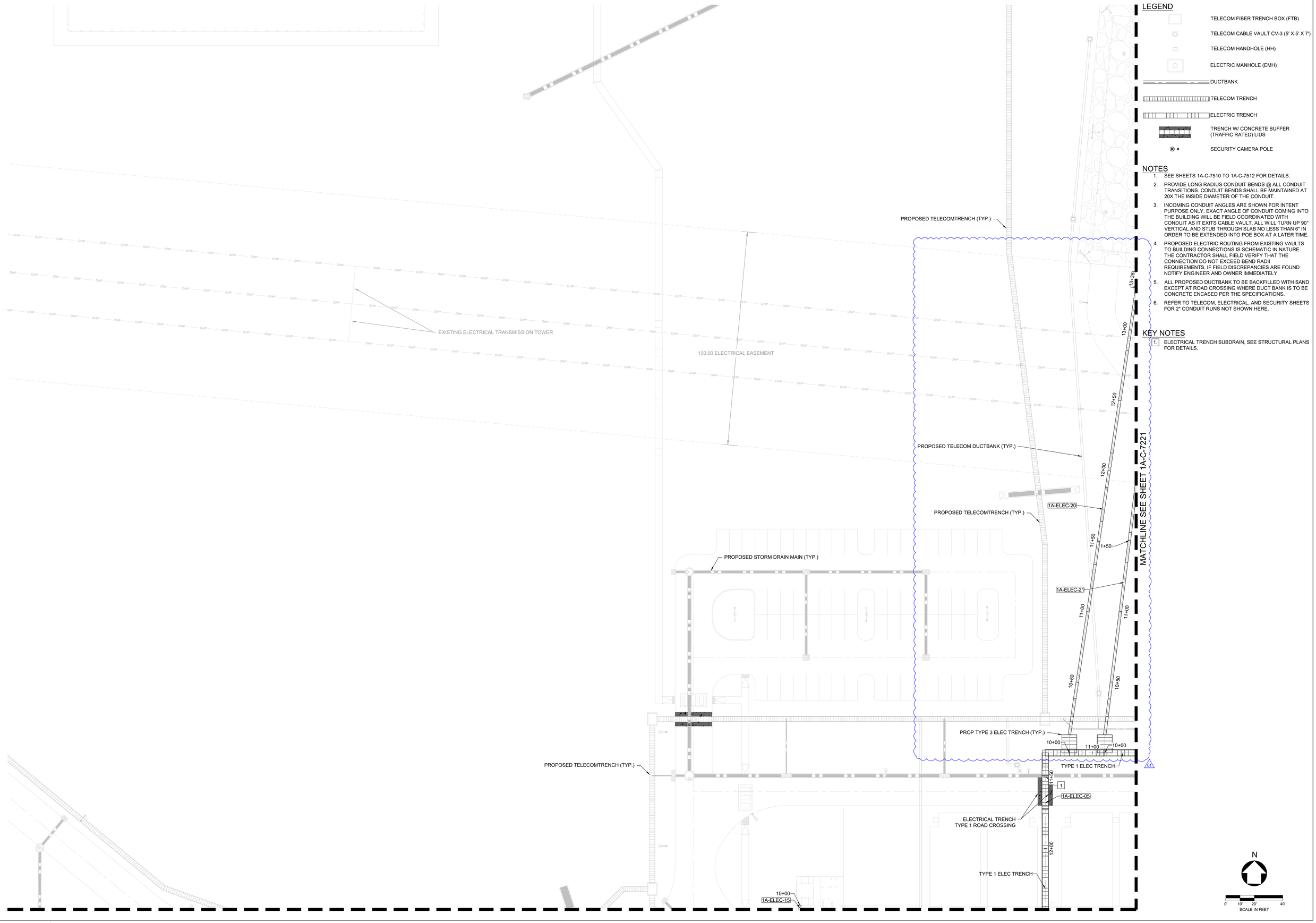
CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

ELECTRIC PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7213
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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ELECTRIC PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7220
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-7220

MATCHLINE SEE SHEET 1A-C-7220

1A-EL-EMH-003
STA: 13+35.33, 1A-ELEC-20
RIM: 631.62
N: 468207.9547
E: 2584591.4762

1A-EL-EMH-004
STA: 13+32.70, 1A-ELEC-21
RIM: 631.45
N: 468206.7499
E: 2584608.4046

1A-EL-EMH-005
STA: 13+28.12, 1A-ELEC-22
RIM: 630.41
N: 468199.3017
E: 2584713.4087

1A-EL-EMH-006
STA: 13+25.42, 1A-ELEC-23
RIM: 630.08
N: 468198.0245
E: 2584731.3550

1A-EL-EMH-007
STA: 13+58.74, 1A-ELEC-24
RIM: 629.98
N: 468196.7265
E: 2584749.5930

1A-EL-EMH-008
STA: 13+61.27, 1A-ELEC-25
RIM: 629.89
N: 468195.2362
E: 2584770.5324

1A-EL-EMH-009
STA: 13+74.68, 1A-ELEC-26
RIM: 629.55
N: 468192.0868
E: 2584815.0674

1A-EL-EMH-010
STA: 13+72.86, 1A-ELEC-27
RIM: 629.60
N: 468190.4142
E: 2584839.9855

1A-ELEC-20
1A-ELEC-21
1A-ELEC-23
1A-ELEC-22
1A-ELEC-24
1A-ELEC-25
1A-ELEC-26
1A-ELEC-27
1A-ELEC-05
1A-ELEC-03
1A-ELEC-01
1A-ELEC-02
1A-ELEC-04
1A-ELEC-14
1A-ELEC-13

150.00 ELECTRICAL EASEMENT

EXISTING ELECTRICAL TRANSMISSION TOWER

PROPOSED TELECOM DUCTBANK (TYP.)

PROPOSED TELECOM TRENCH (TYP.)

PROP TYPE 3 ELEC TRENCH (TYP.)

PROPOSED STORM DRAIN MAIN (TYP.)

TYPE 3 ELEC TRENCH

TYPE 1 ELEC TRENCH

ELECTRICAL TRENCH
TYPE 1 ROAD CROSSING

351 LF 18" X 10" UGE
(2) 2" ELEC DB

194 LF 18" X 10" UGE
(2) 2" ELEC DB

01

LEGEND

- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-3 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- ELECTRIC MANHOLE (EMH)
- DUCTBANK
- TELECOM TRENCH
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N

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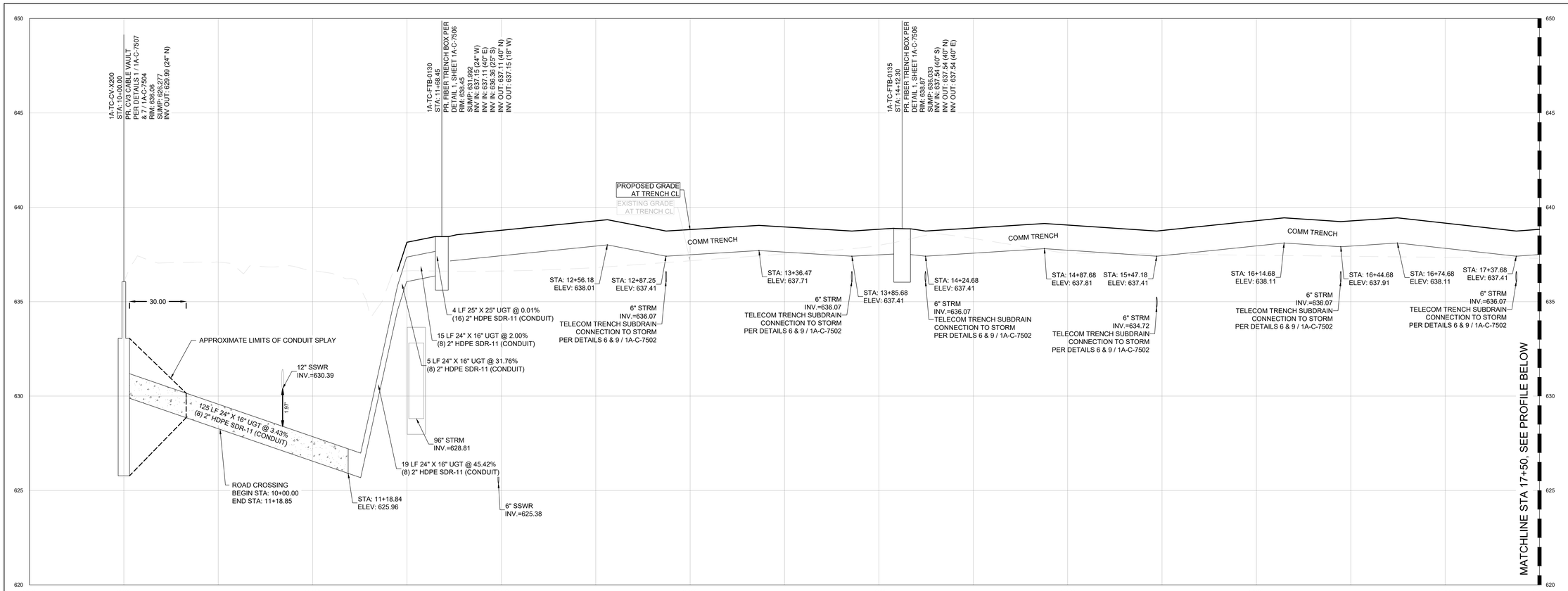
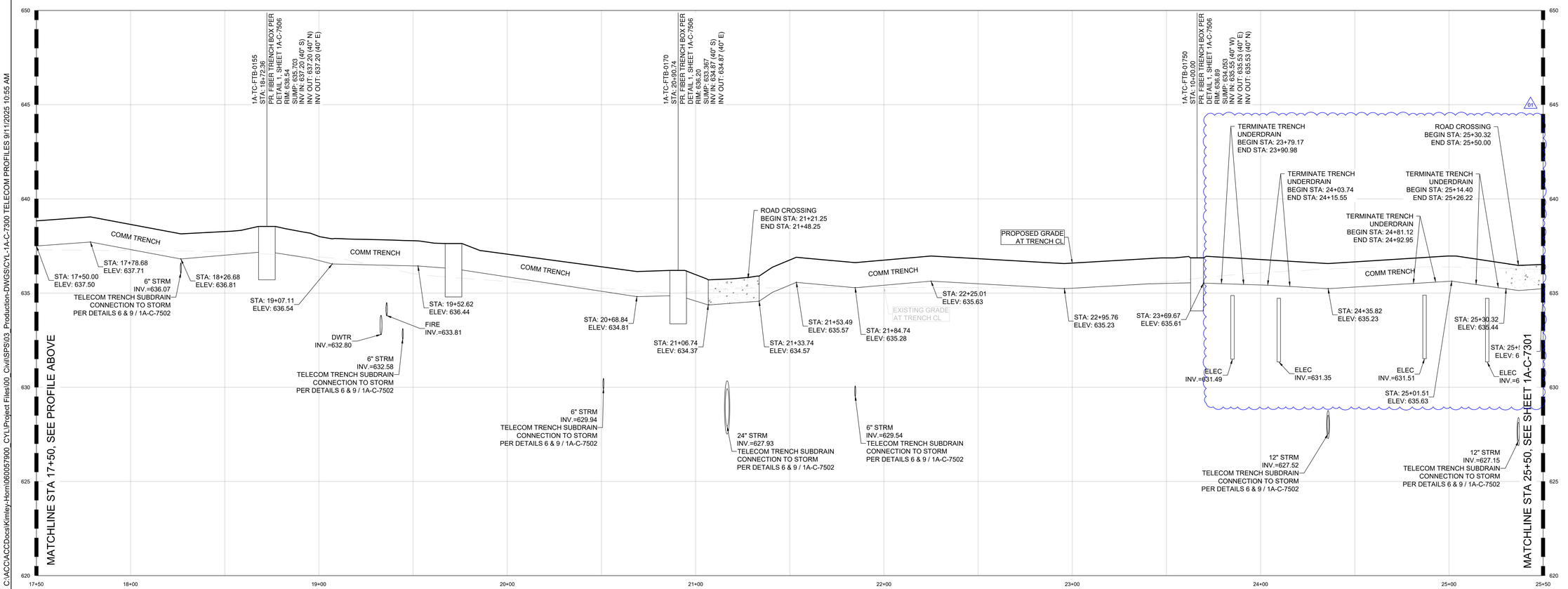


1A-TELE-01 PROFILE



1A-TELE-01 PROFILE

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OKLAHOMA
04/09/2026

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PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7300

PAPER SIZE: E (36"x48")
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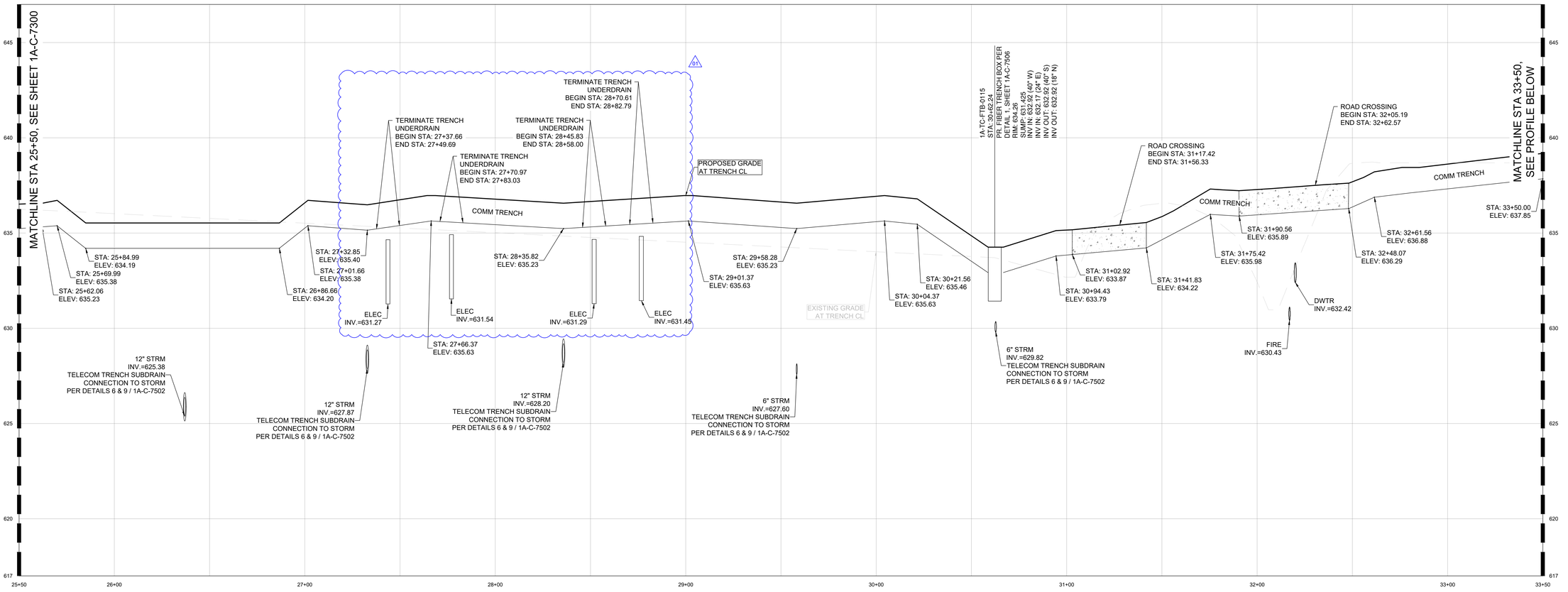

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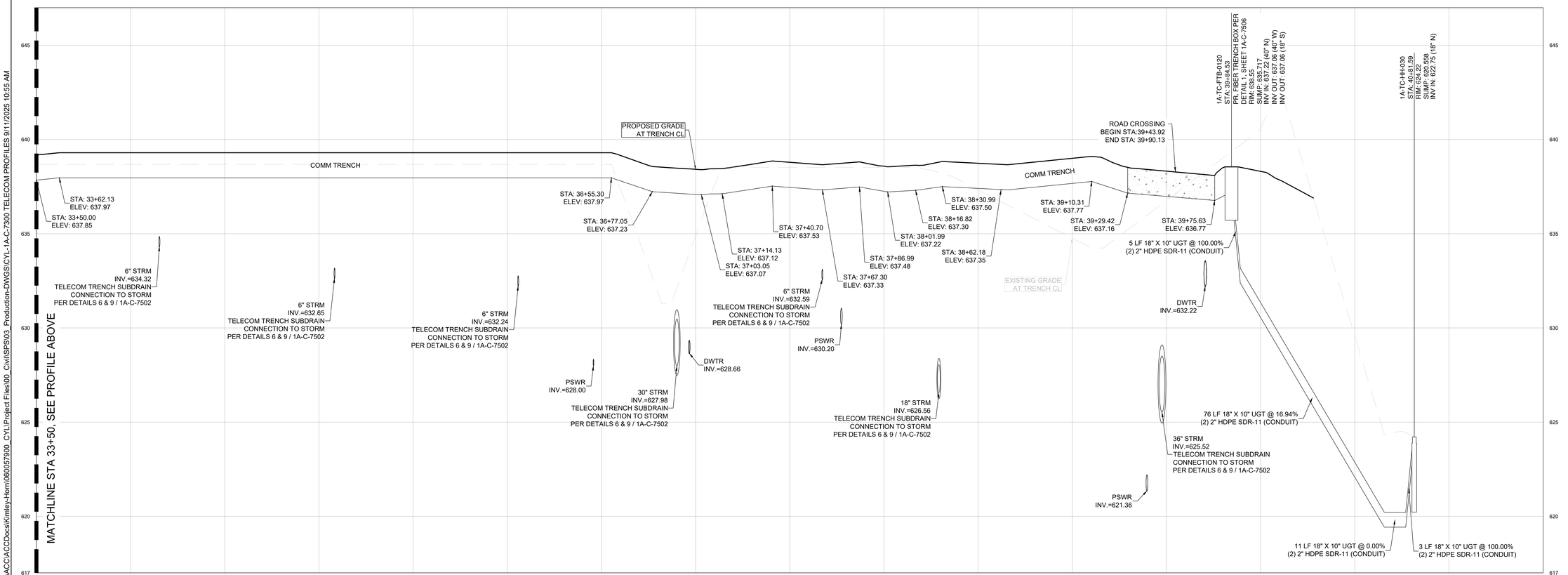

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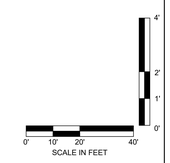

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEAN RANDALL — OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

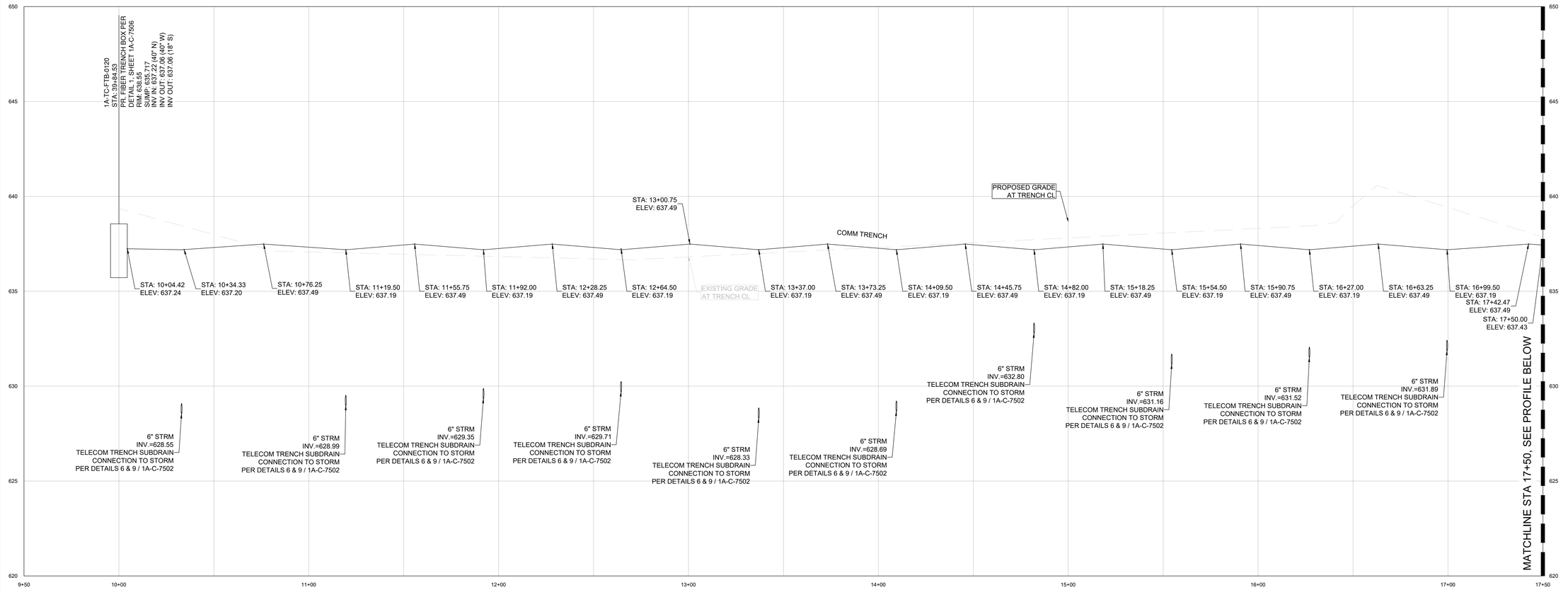
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PROFILES
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7301
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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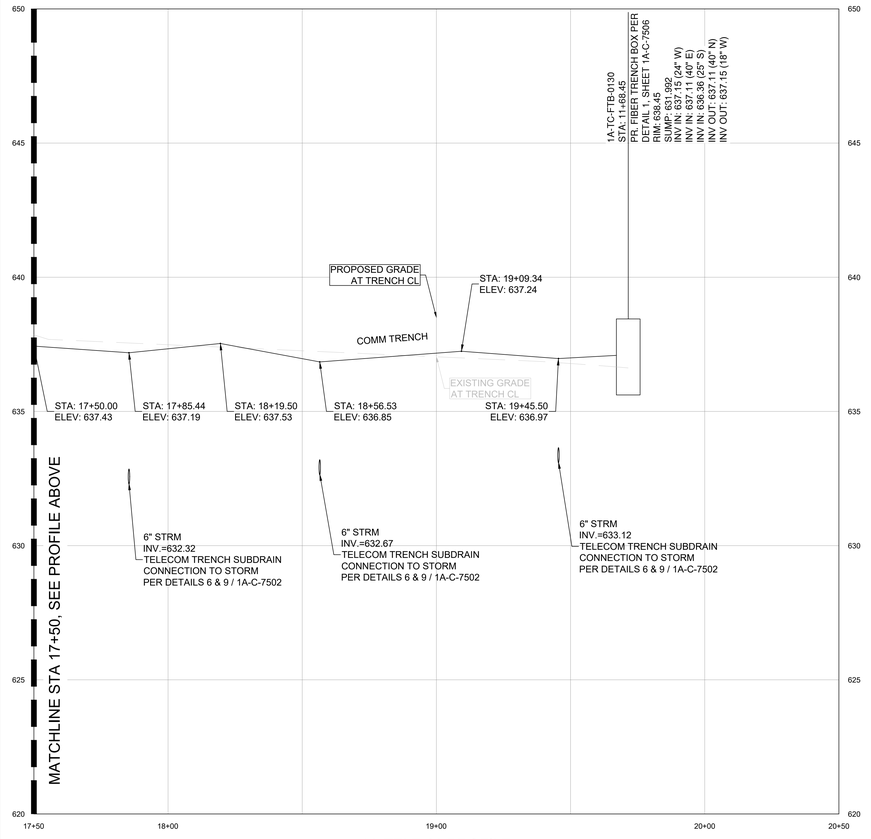

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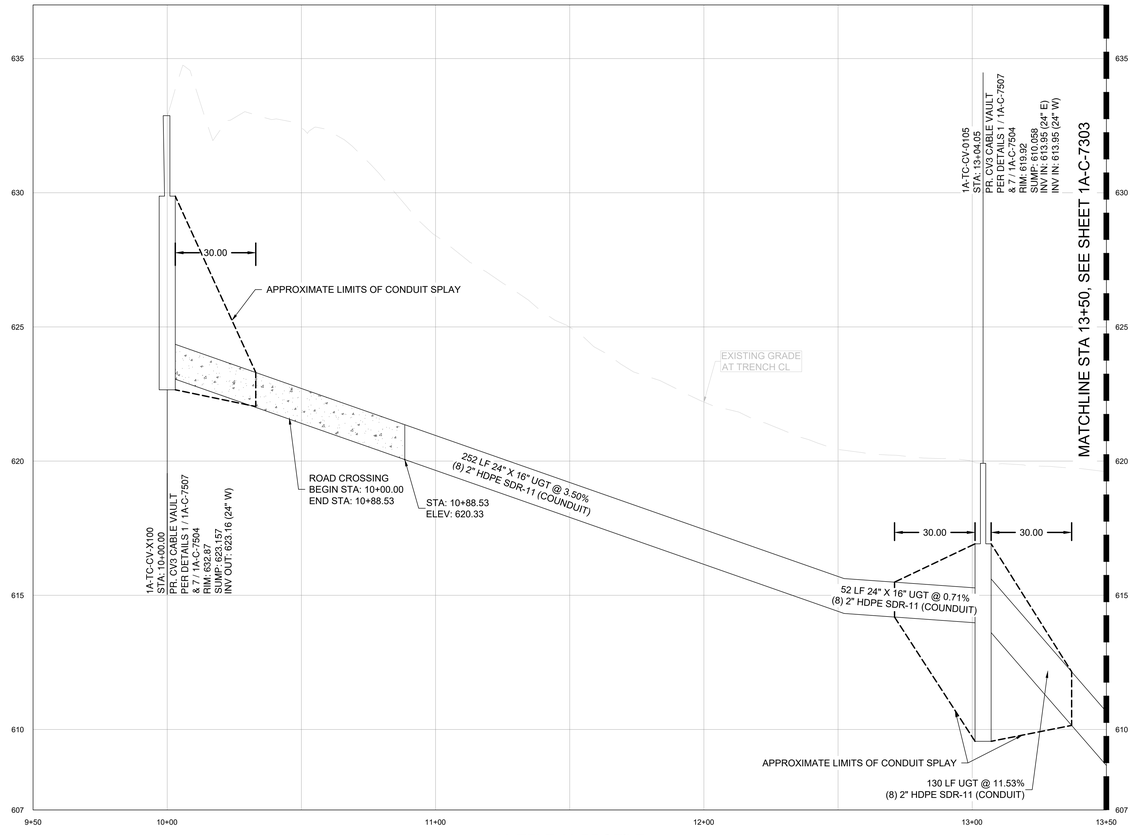

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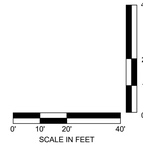

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — 27621 — OKLAHOMA — 04/09/2026

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ISSUE FOR CONSTRUCTION
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7302

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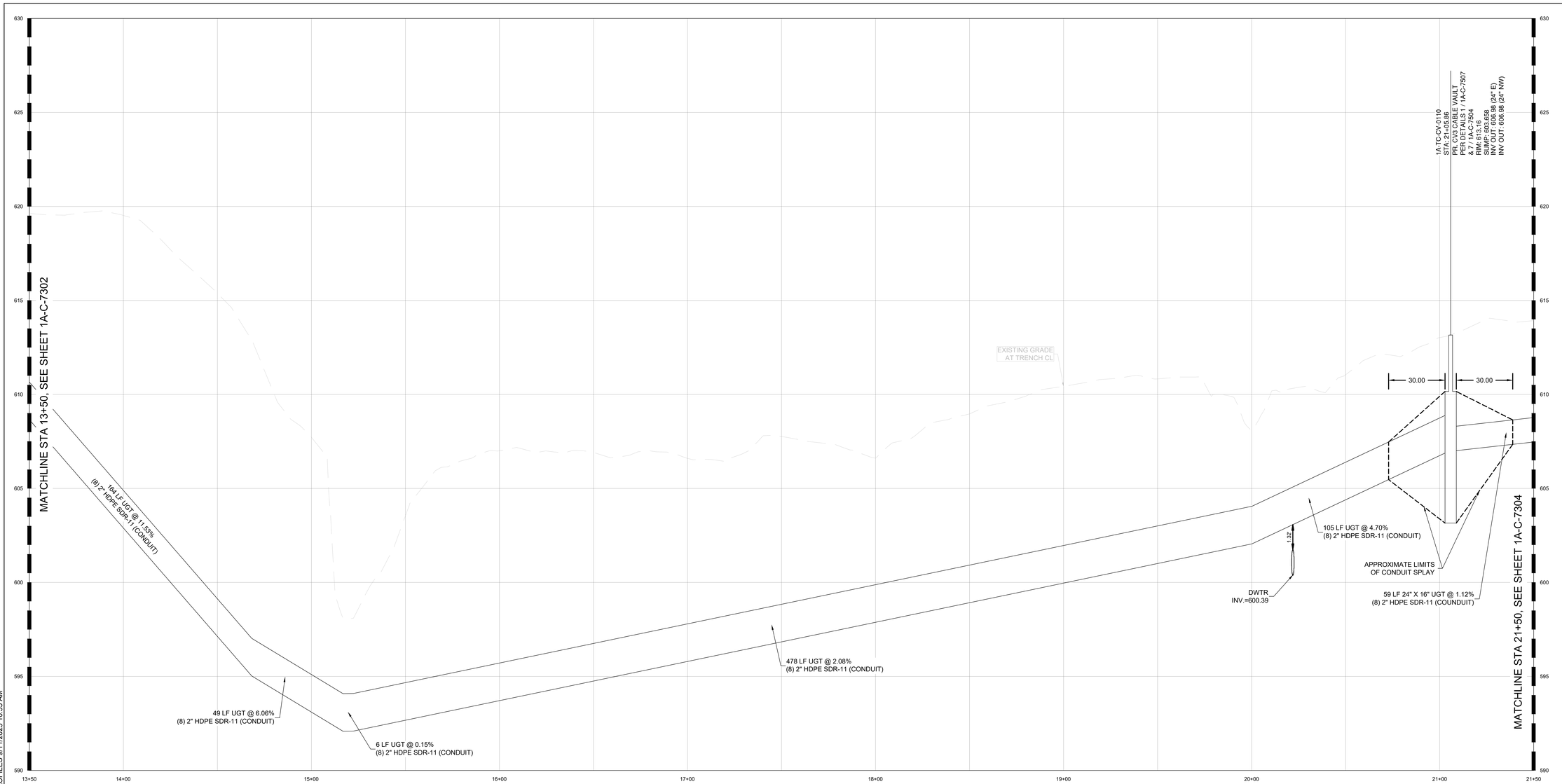

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0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7303

PAPER SIZE: E (36"x48")
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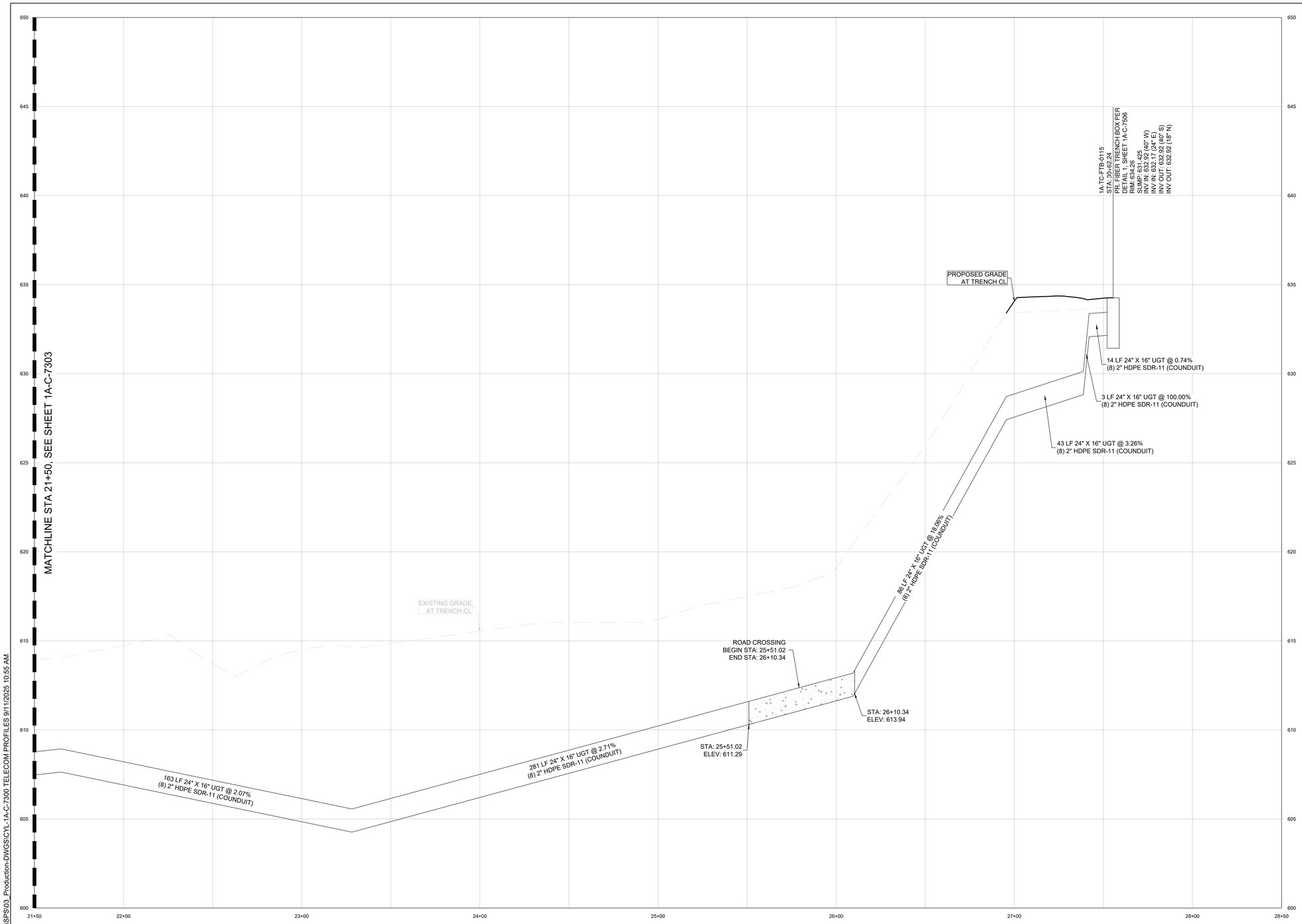

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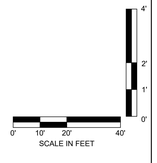

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1917 SOUTH 67th STREET
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TULSA, OK 74119
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DEVIN RANDALL GRIFFIN
OKLAHOMA
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ISSUE FOR CONSTRUCTION
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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7304

PAPER SIZE: E (36"x48")
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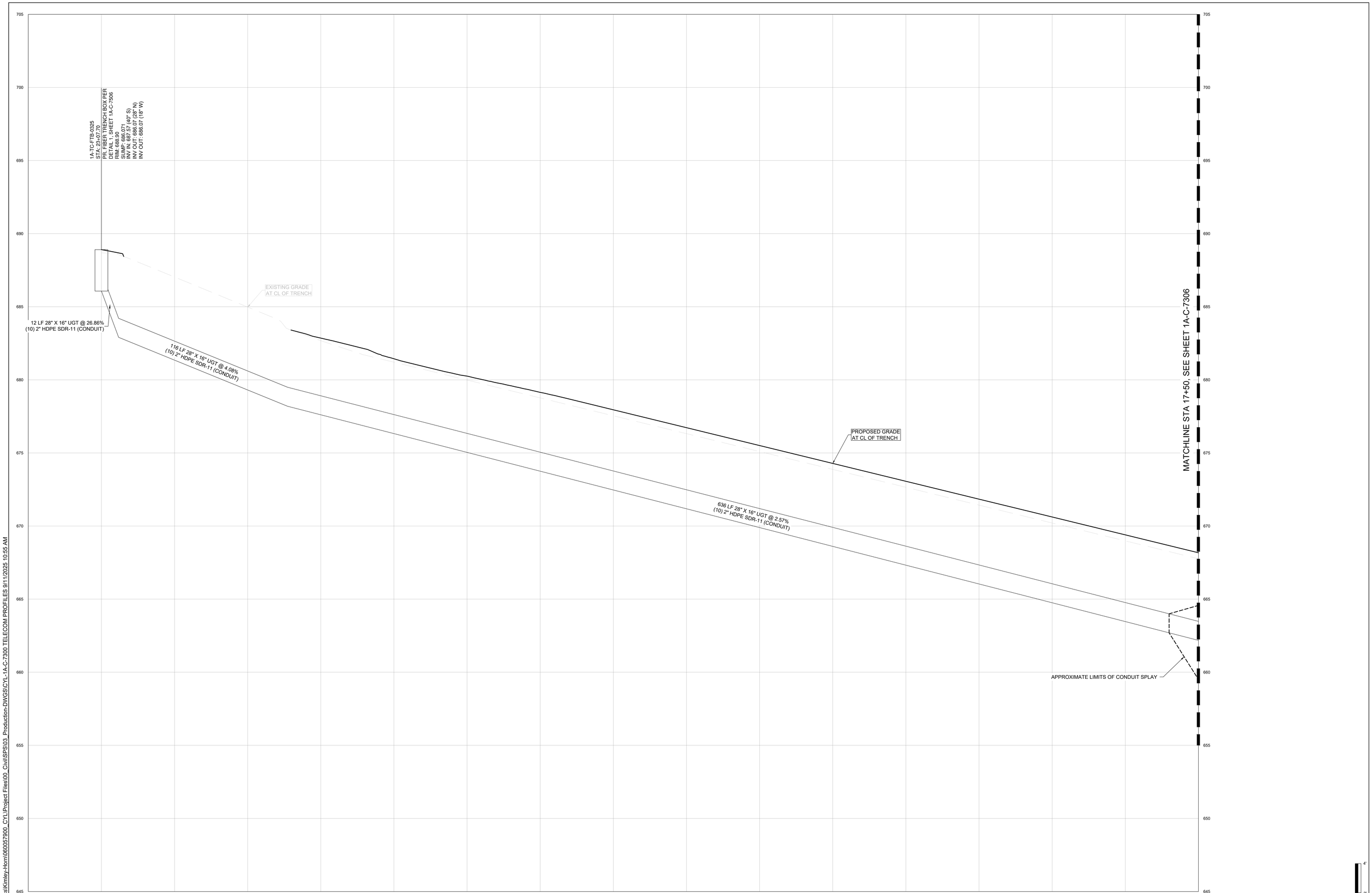

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1917 SOUTH 67th STREET
OMAHA, NE 68106
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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REVISIONS		
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1	2026-04-09	ADDENDUM #1

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SCALE: AS SHOWN

TELECOM PROFILES

SHEET NUMBER:
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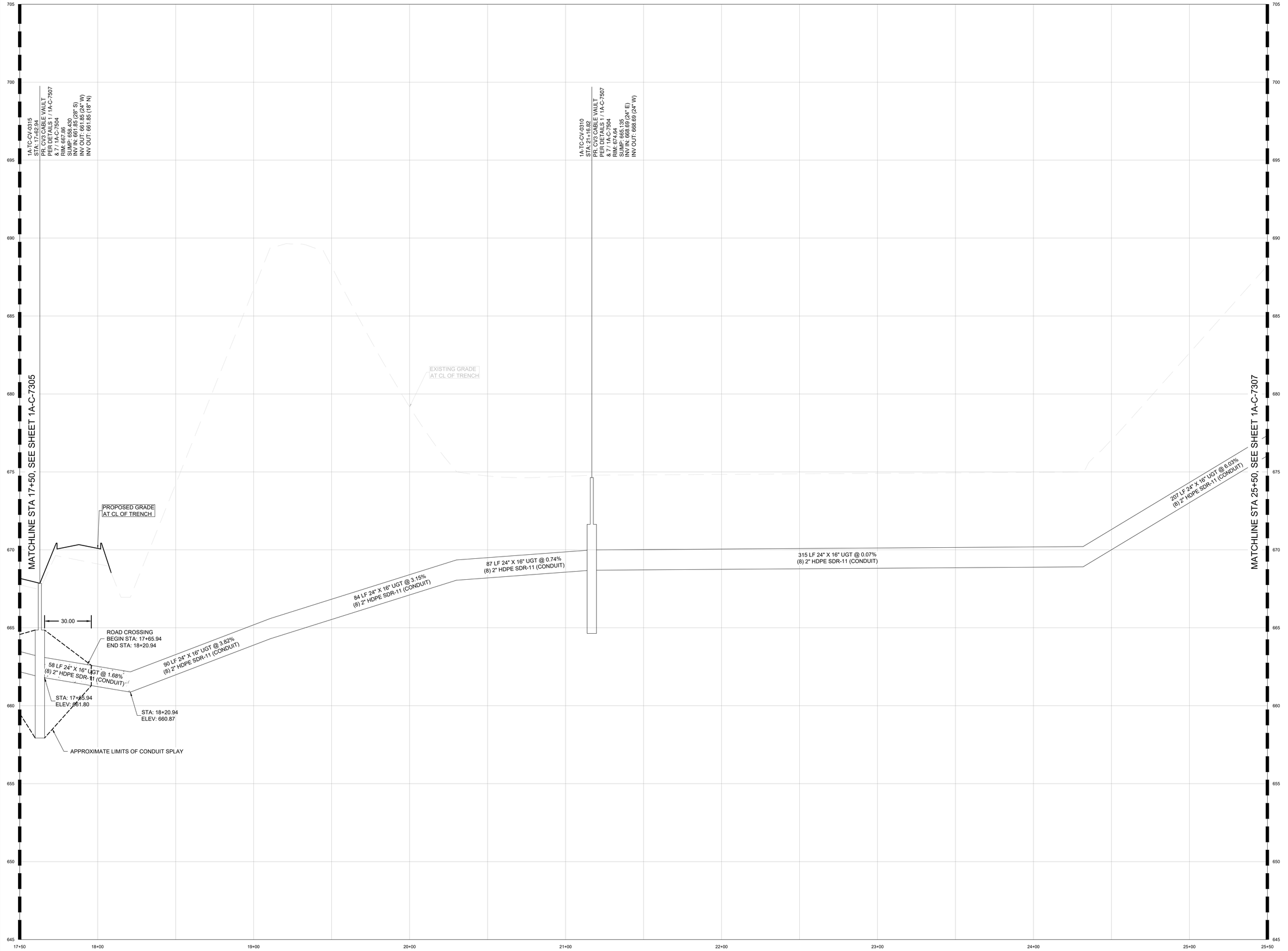

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ASSOCIATES, INC.
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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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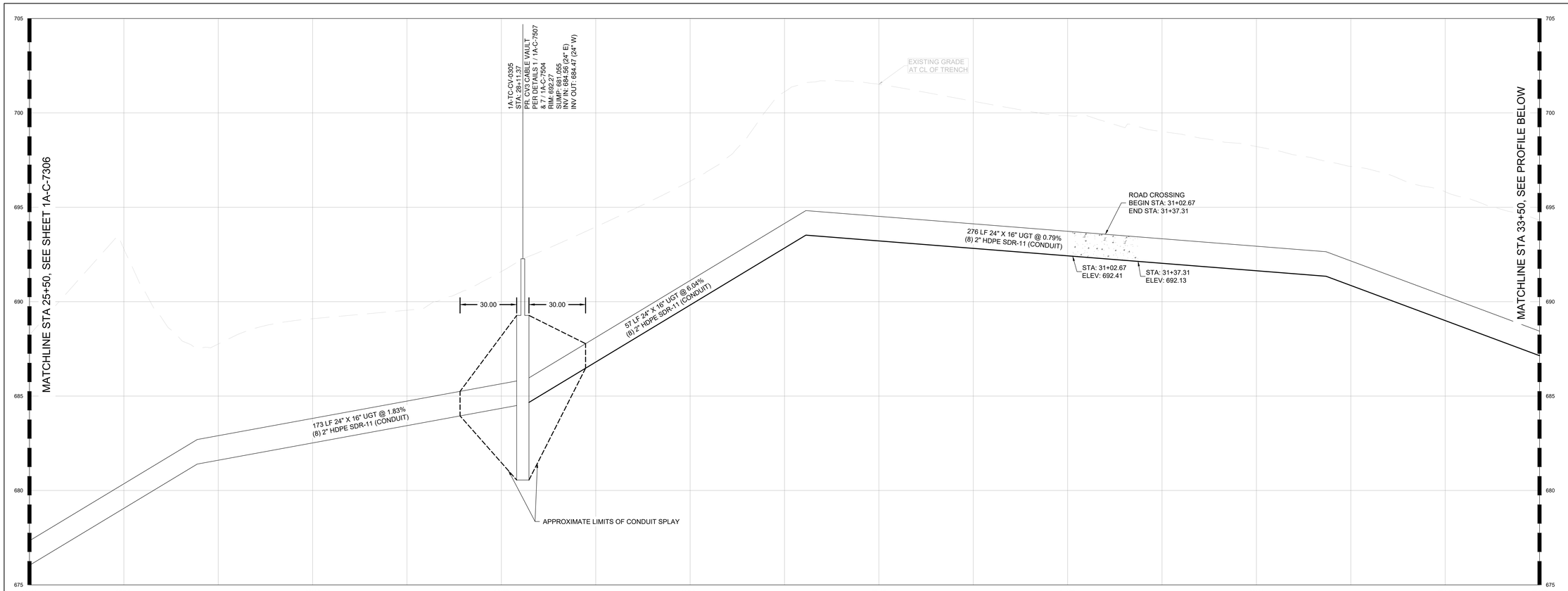

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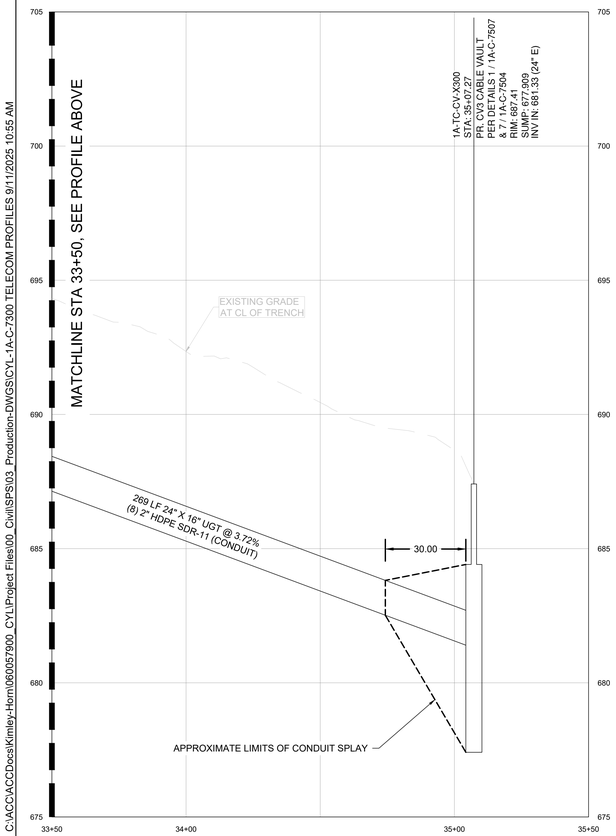

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1917 SOUTH 67th STREET
OMAHA, NE 68106
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ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7307

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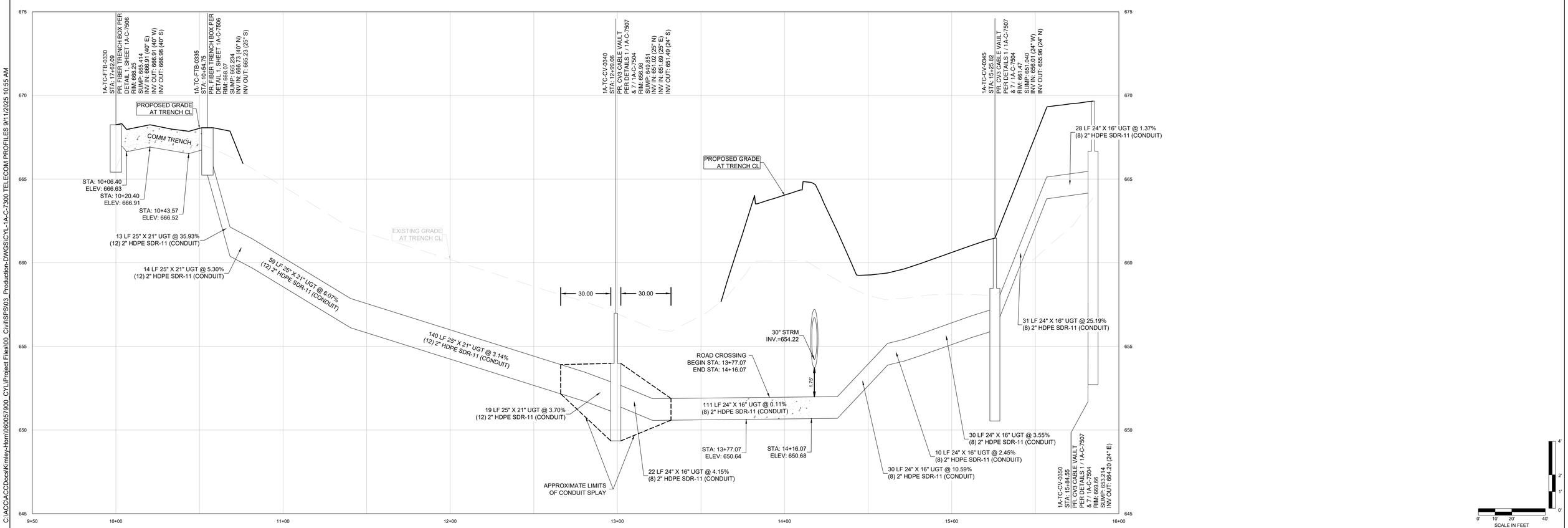

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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32621
OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7308

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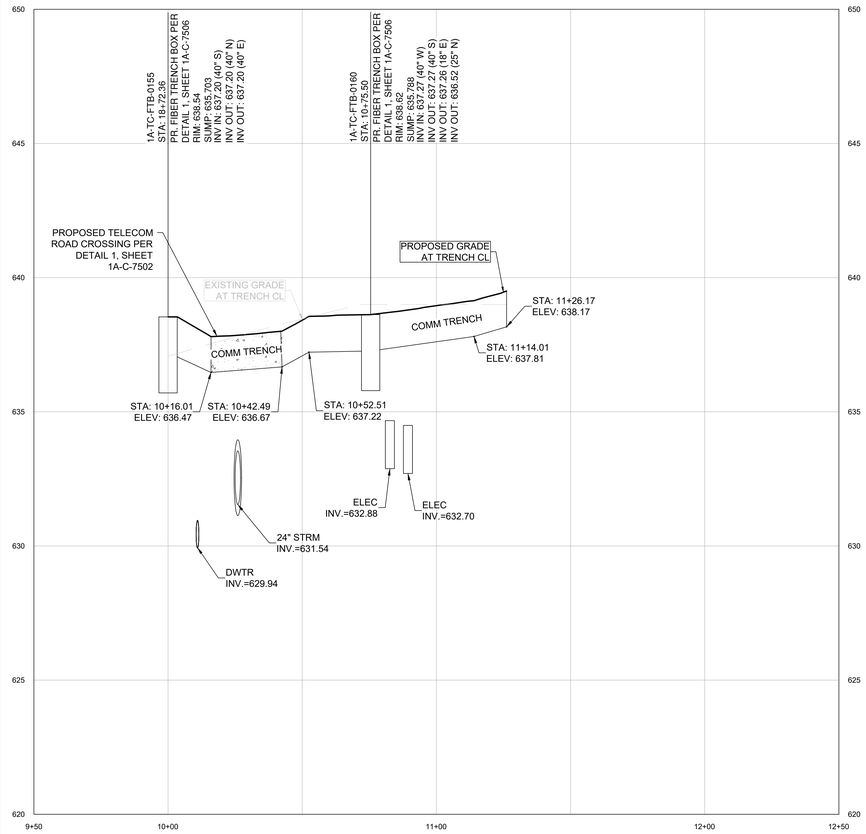

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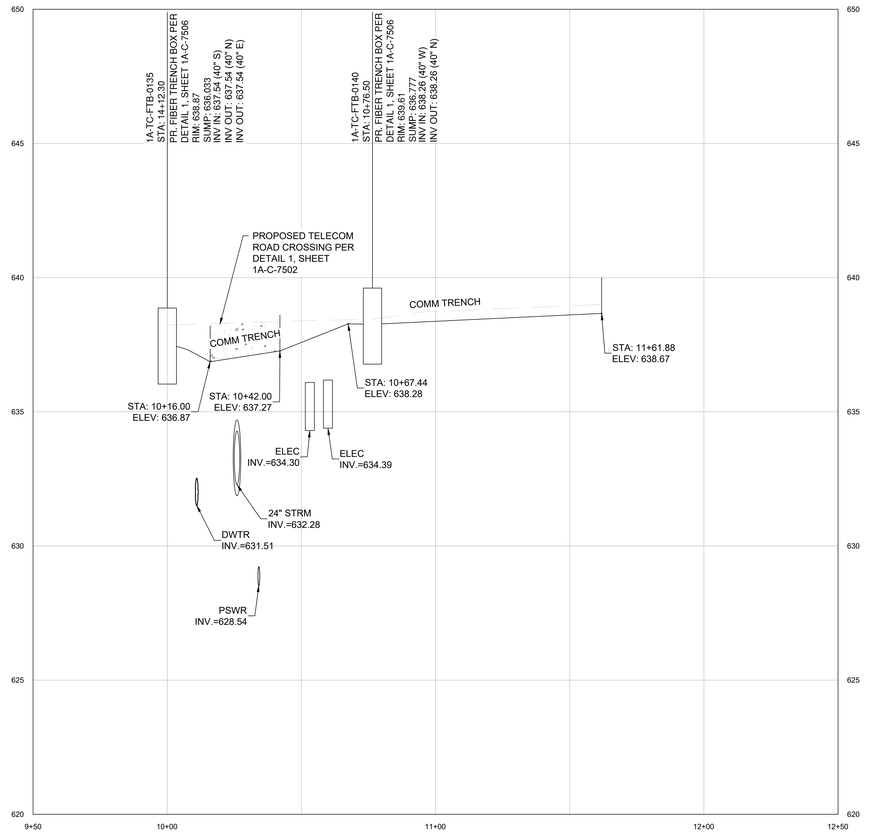

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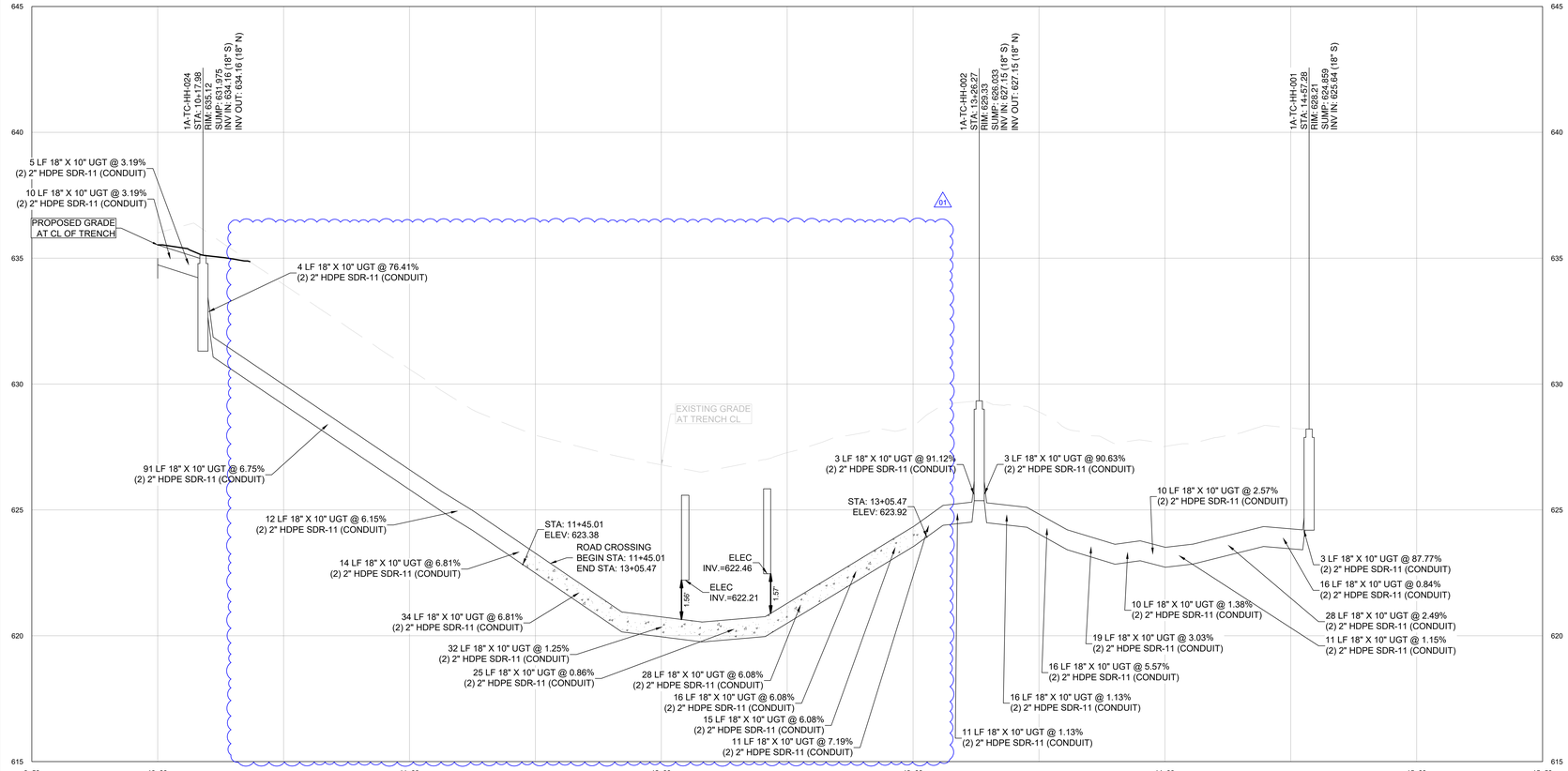

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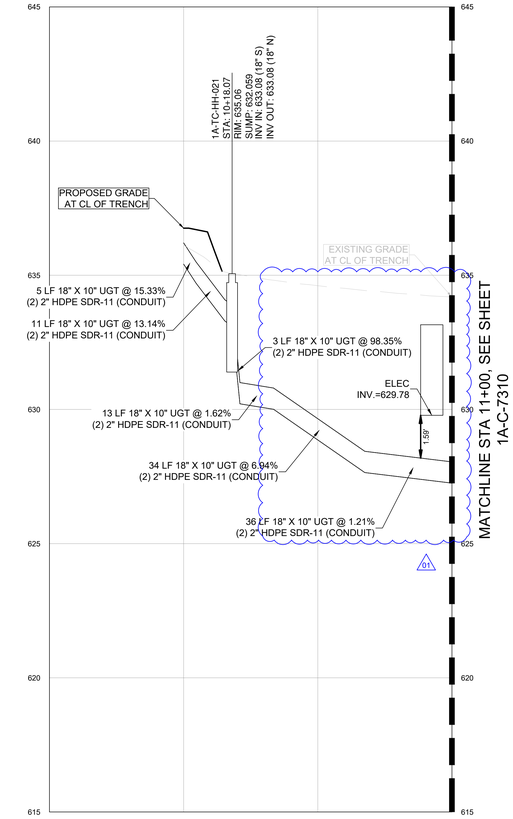

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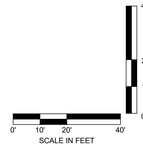

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HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
21621
OKLAHOMA
04/09/2026

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ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
1	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7309

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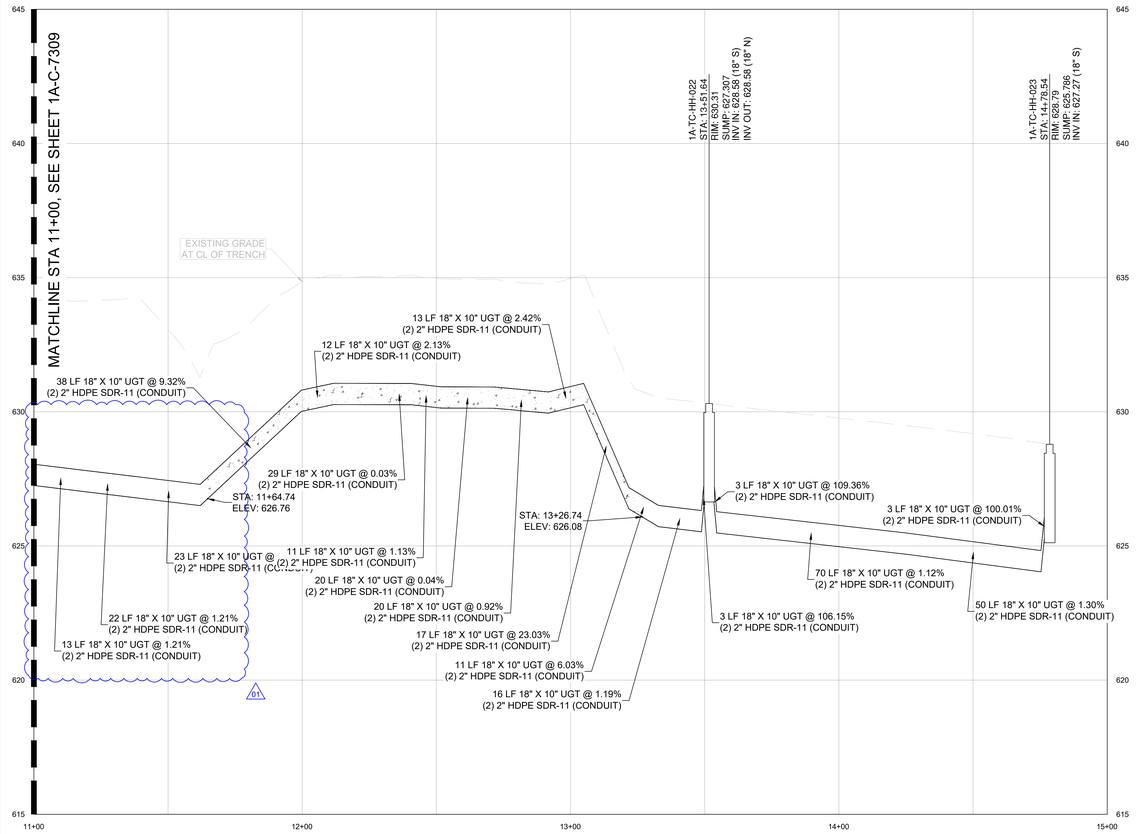

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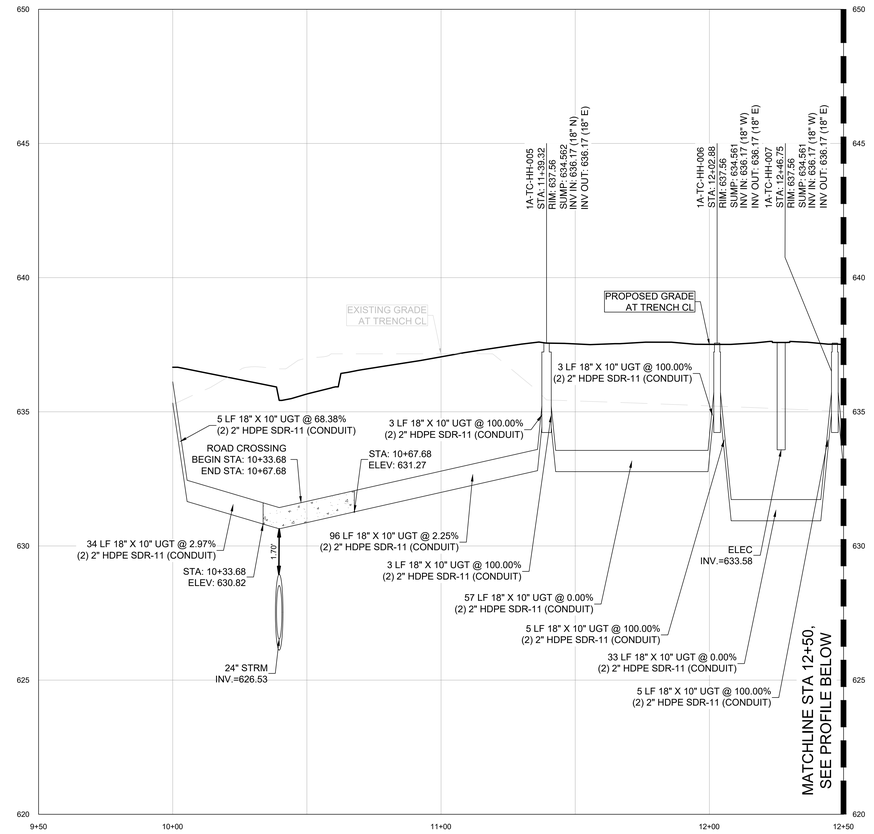

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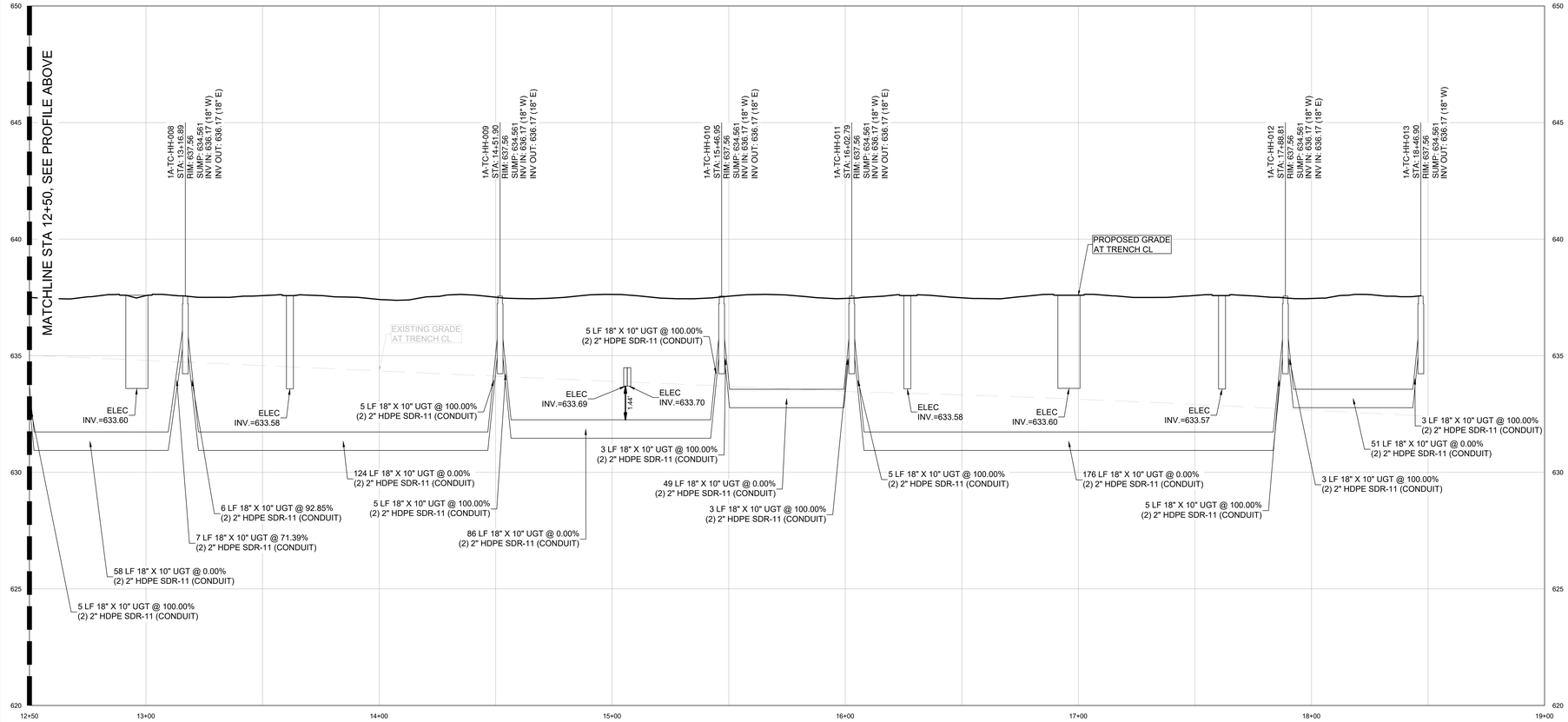

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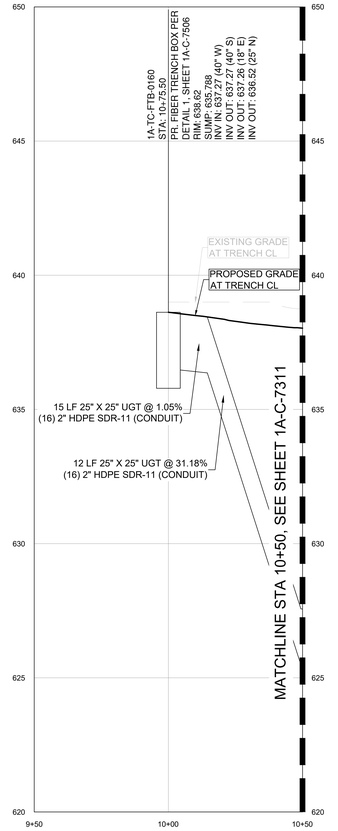

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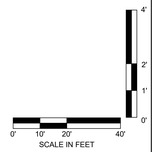

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HDR, INC.
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(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7310

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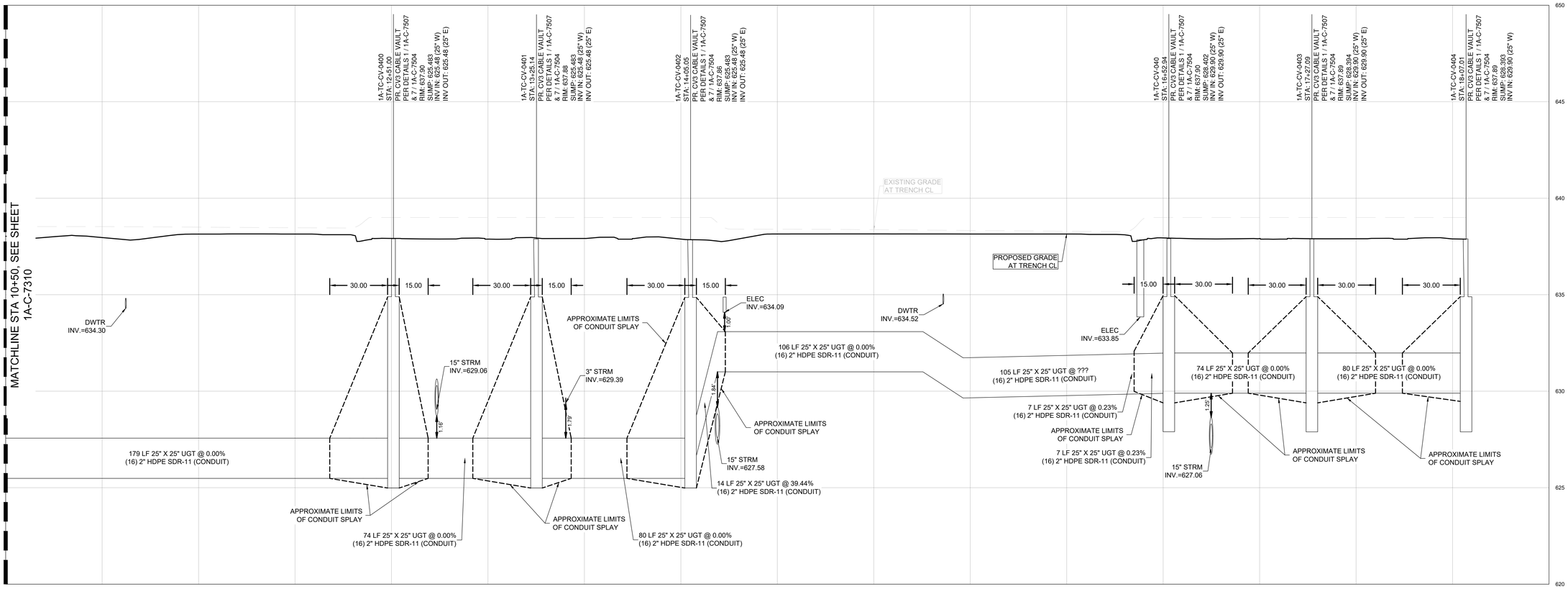

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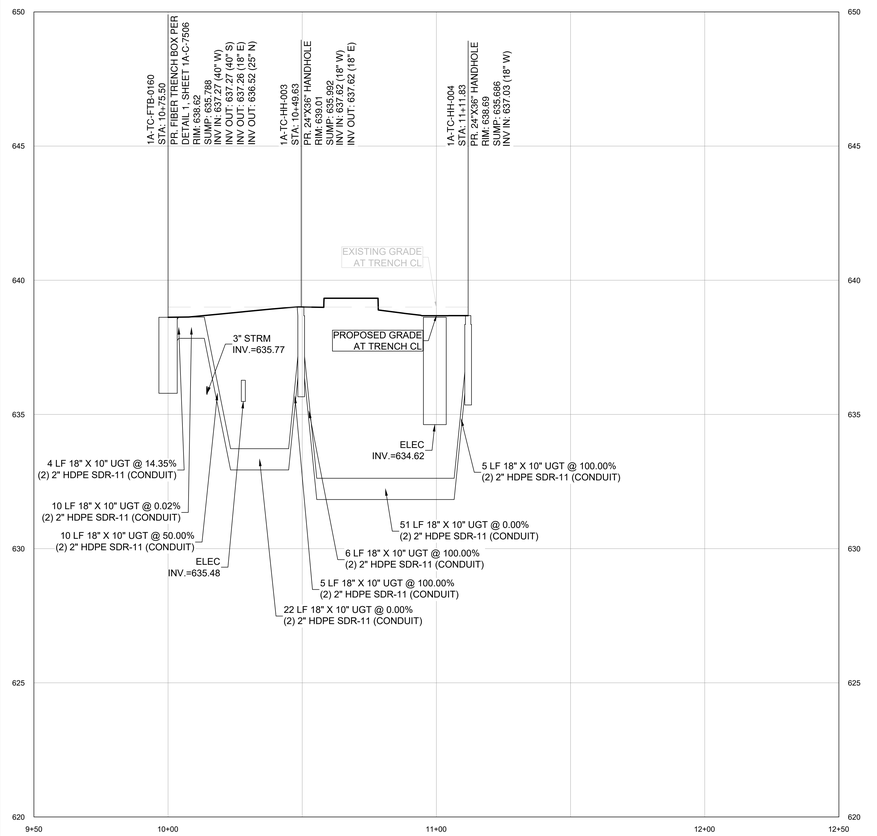

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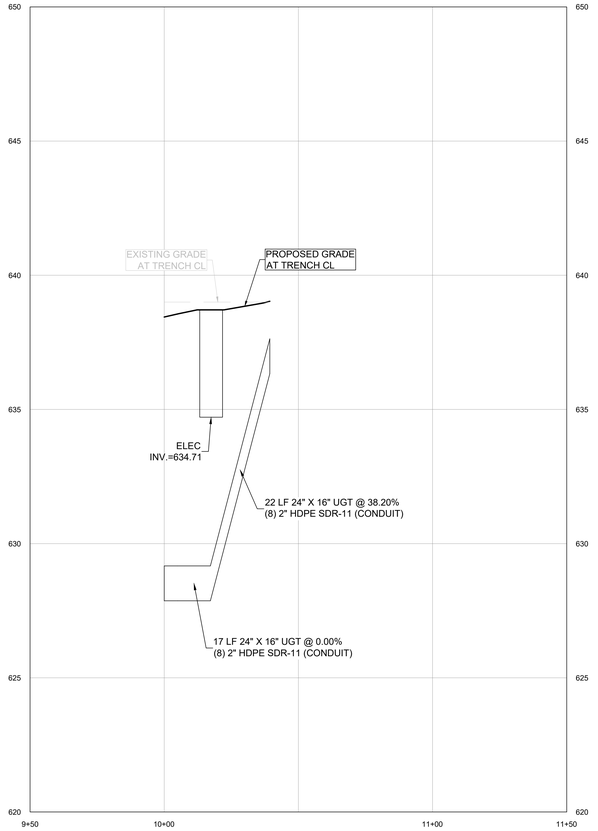

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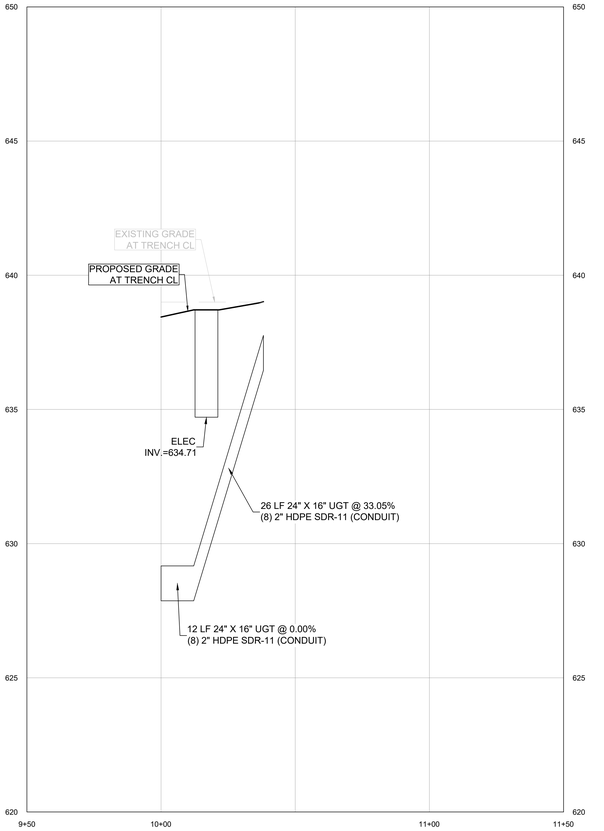

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1917 SOUTH 67th STREET
OMAHA, NE 68106
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1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEAN RANDALL GRAY 25621 OKLAHOMA
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ISSUE FOR CONSTRUCTION
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM PROFILES
SCALE: AS SHOWN

SHEET NUMBER:
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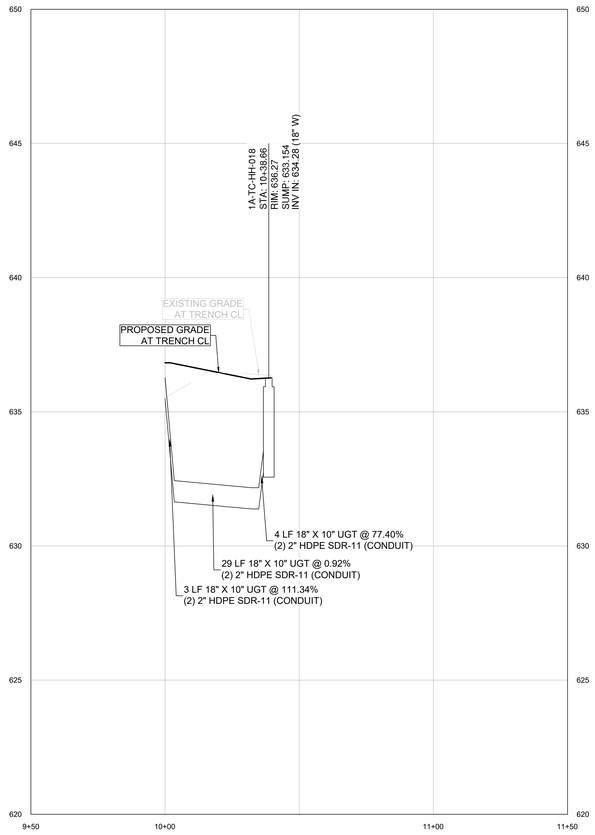

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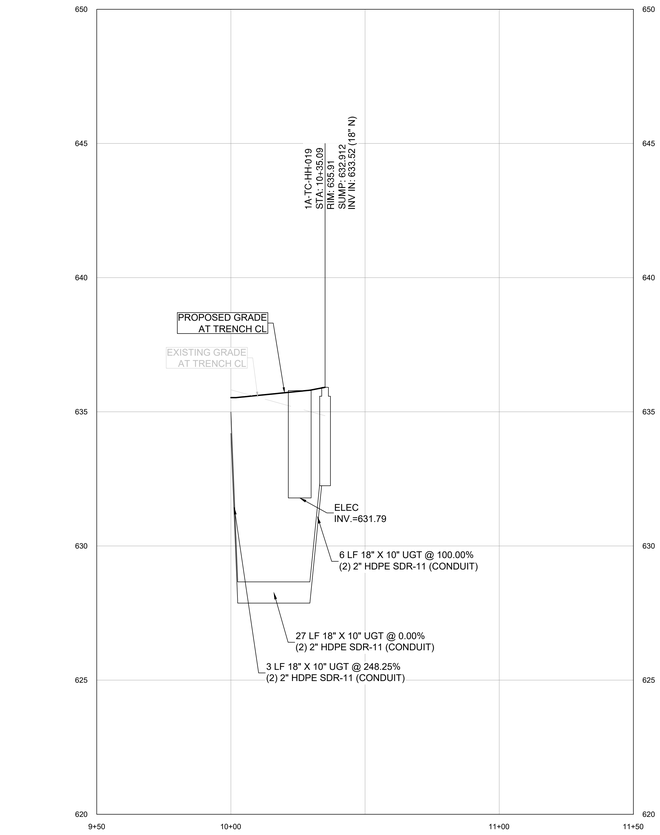

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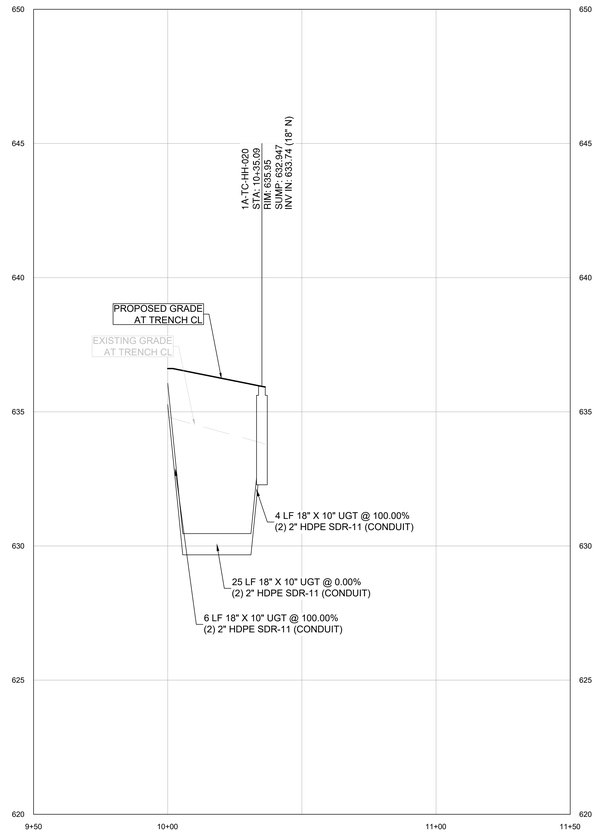

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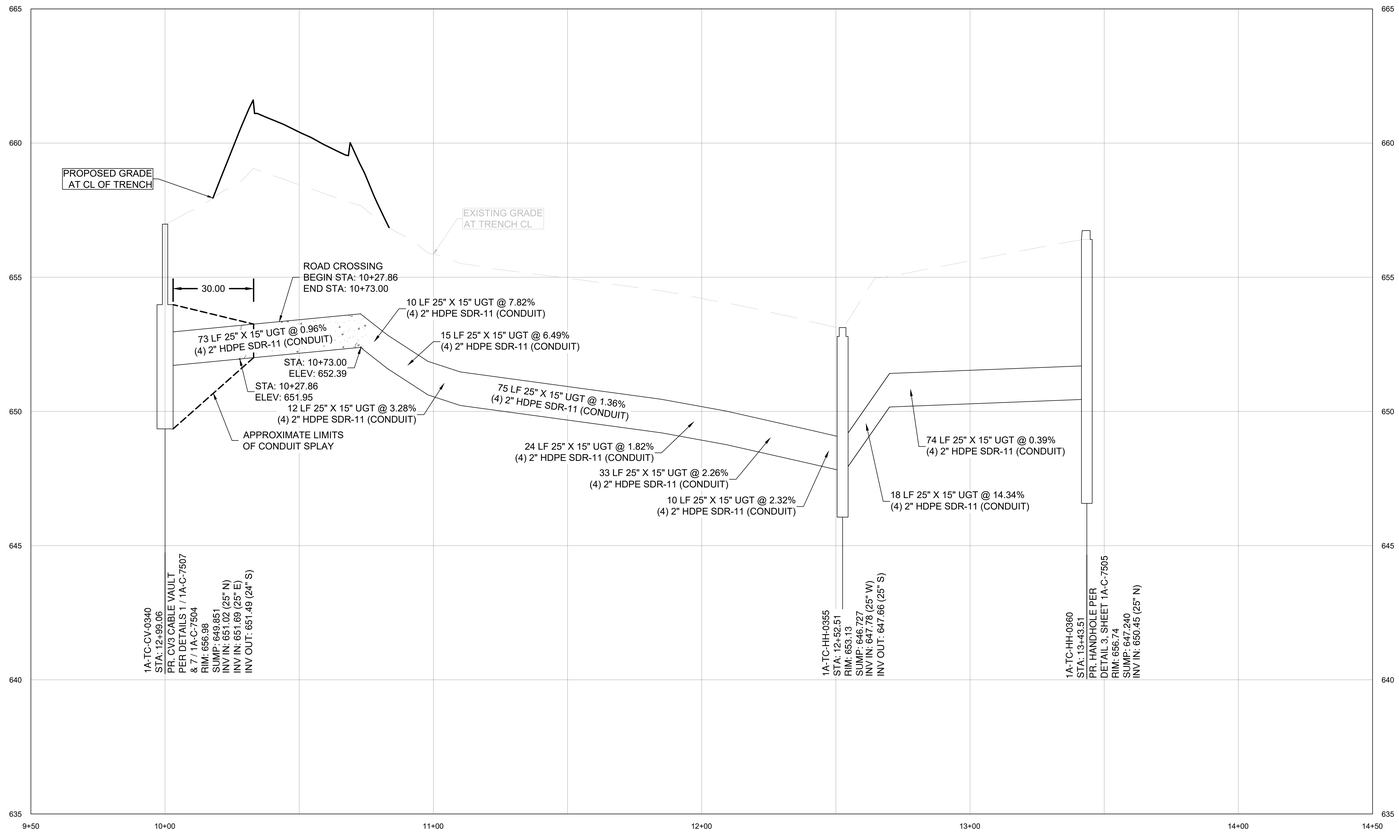

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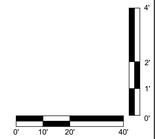

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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
#25211
OKLAHOMA
04/09/2026

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7312

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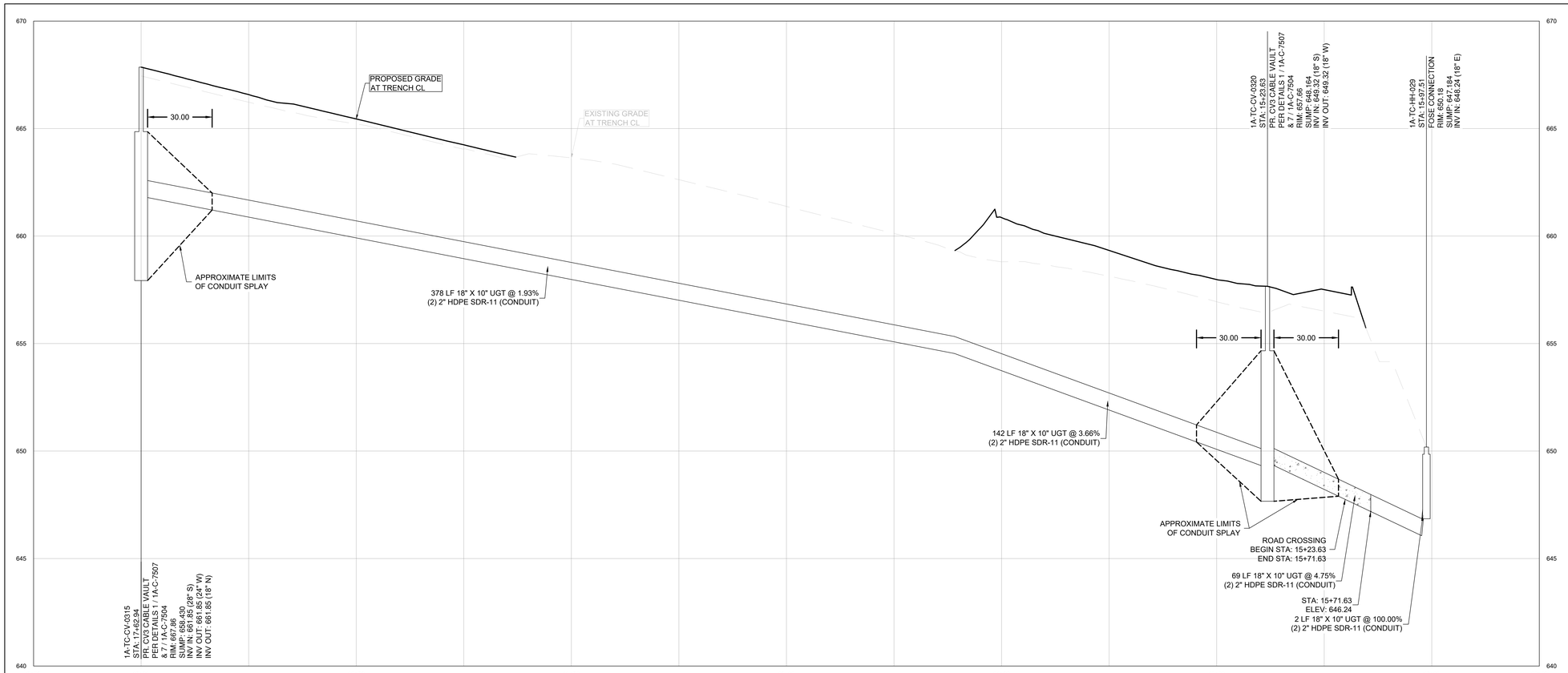

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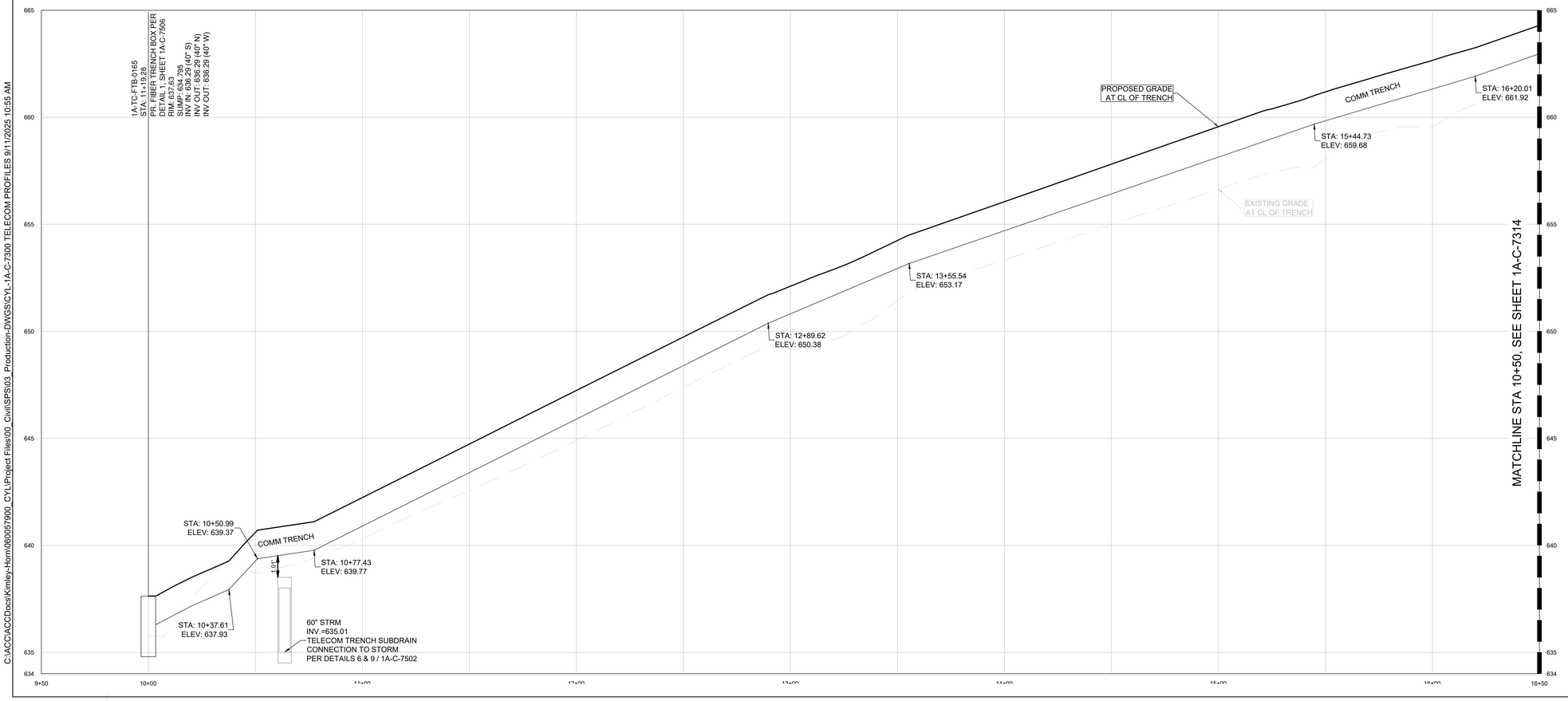

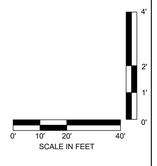

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
#32211
OKLAHOMA
04/09/2026

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PROJ. NO.: 10434535

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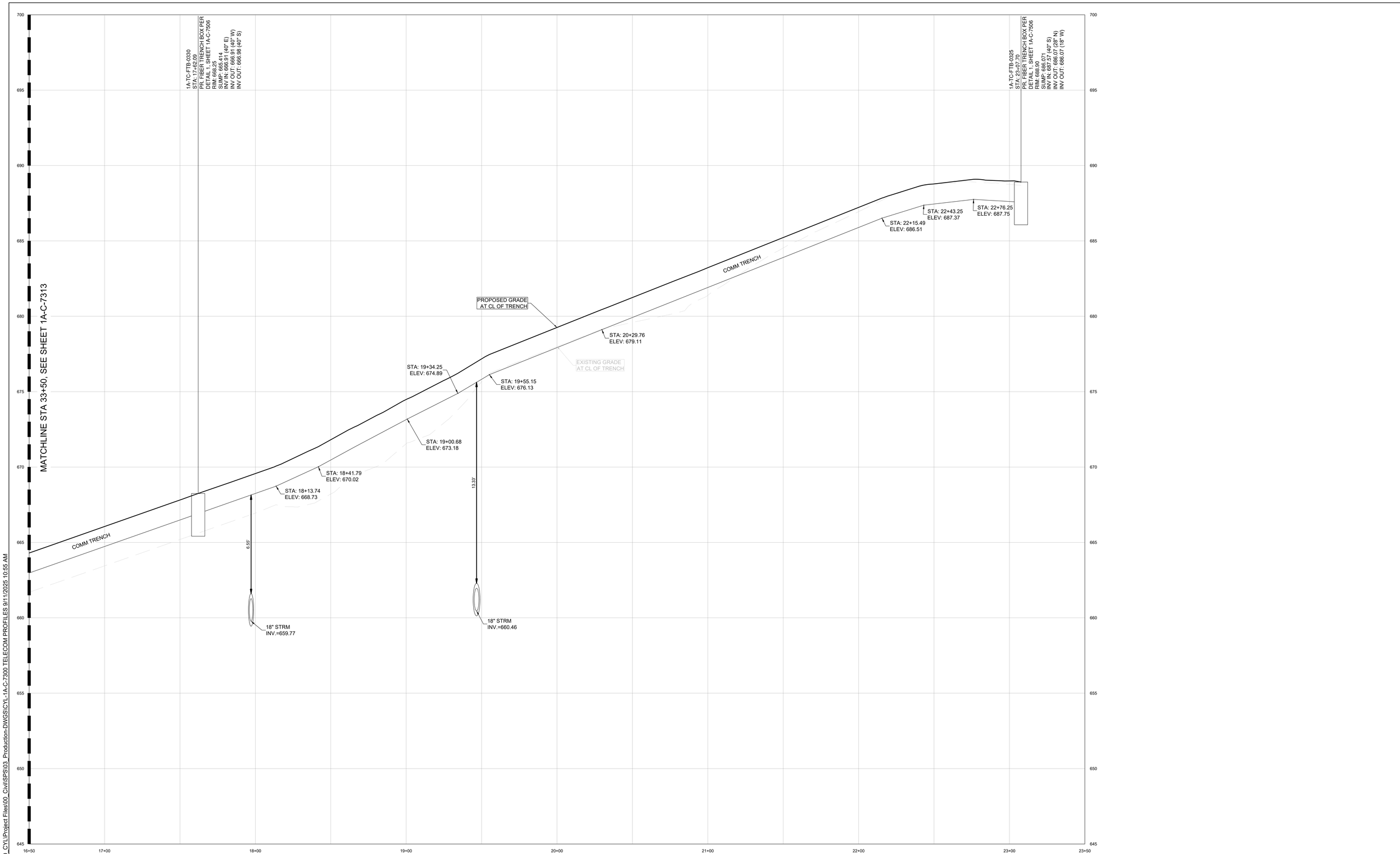

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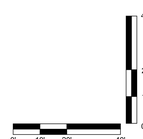

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OKLAHOMA
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PROJ. NO.: 10434535

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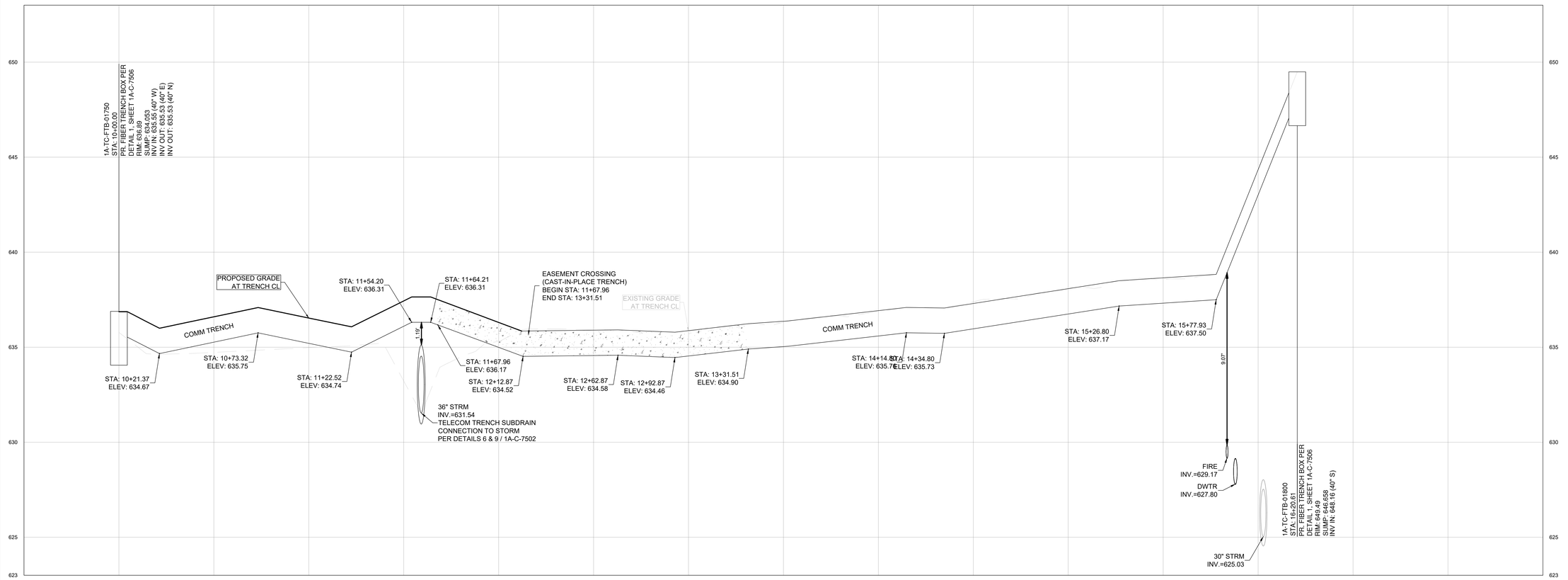

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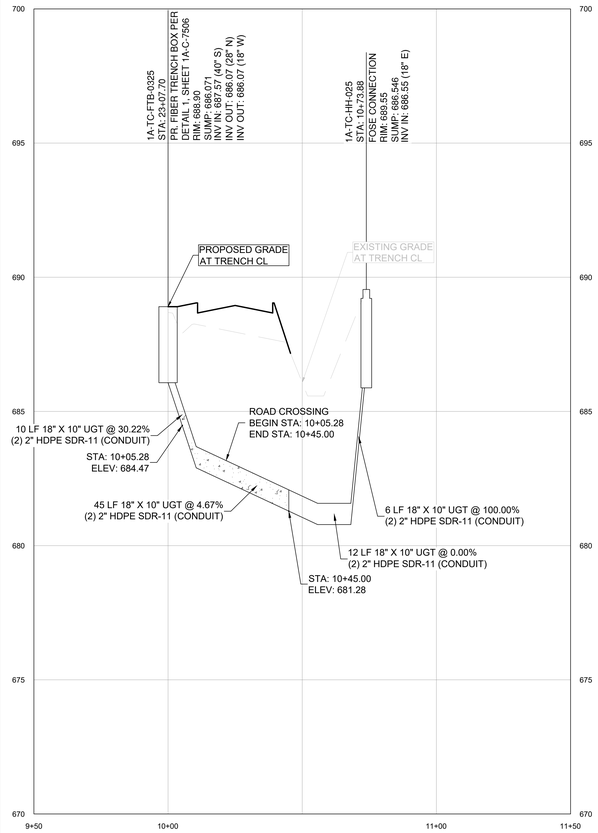

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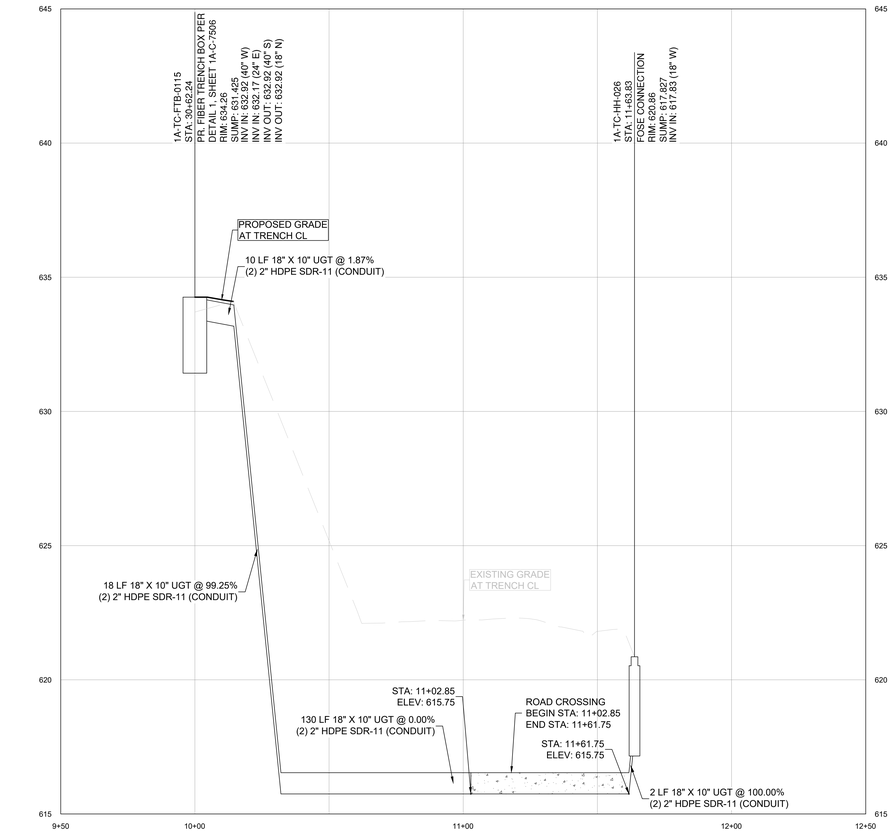

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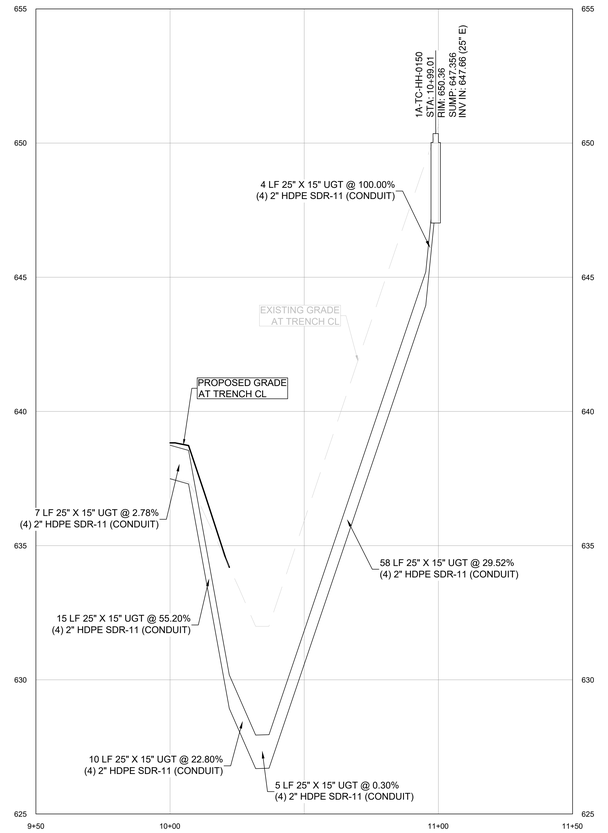

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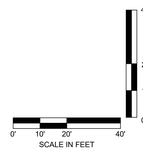

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
21621
OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434535

TELECOM PROFILES

SCALE: AS SHOWN

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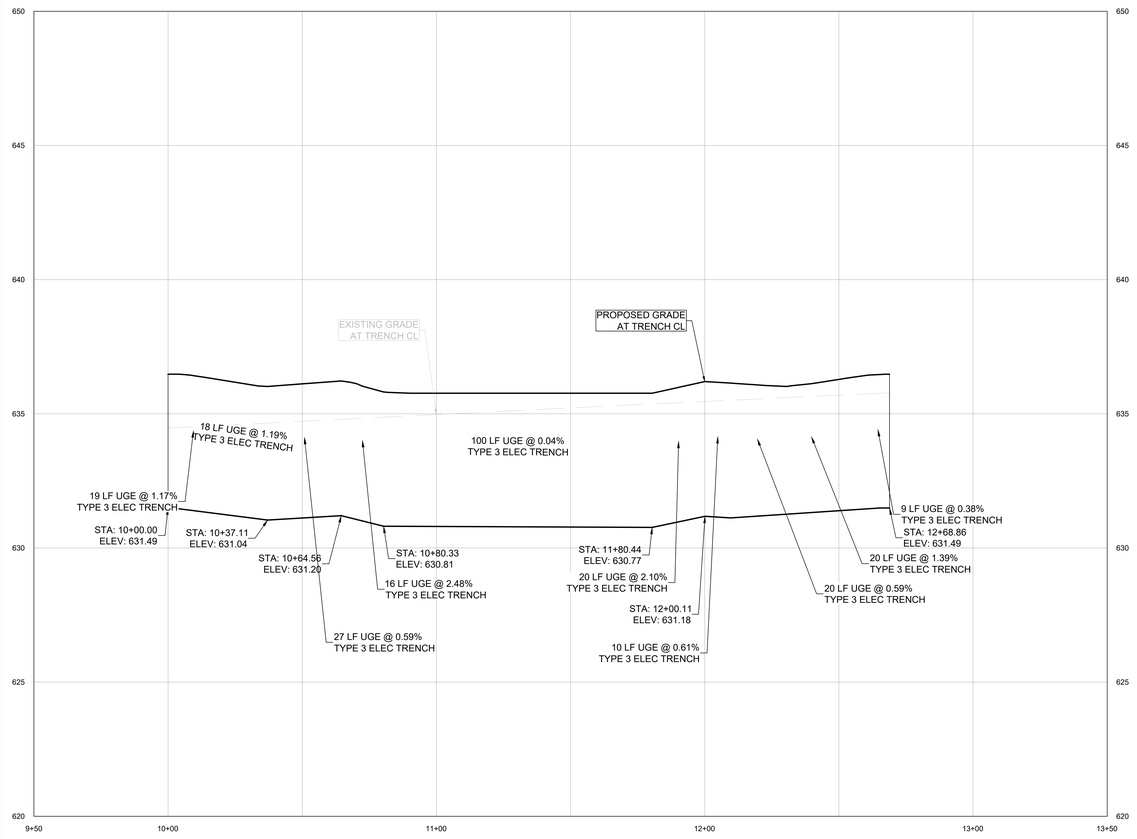

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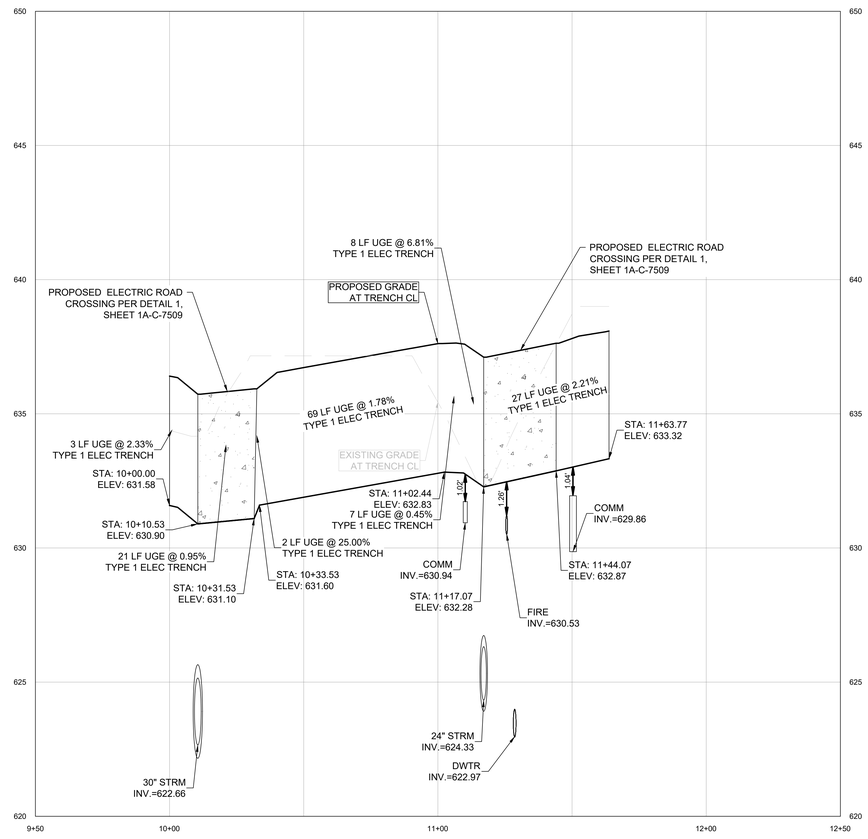

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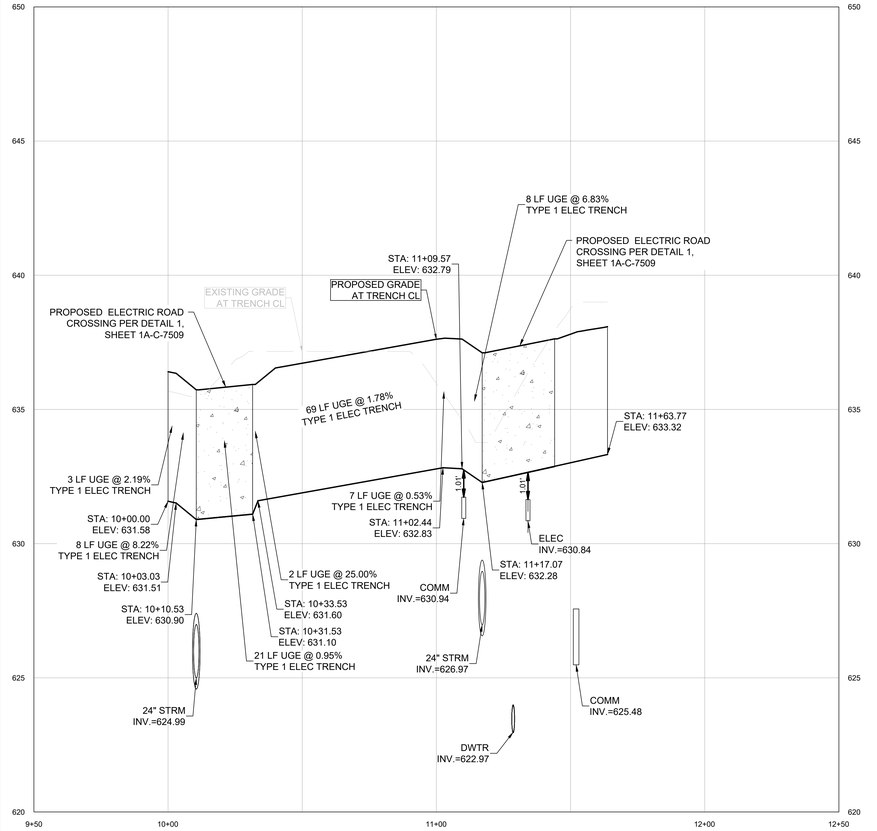

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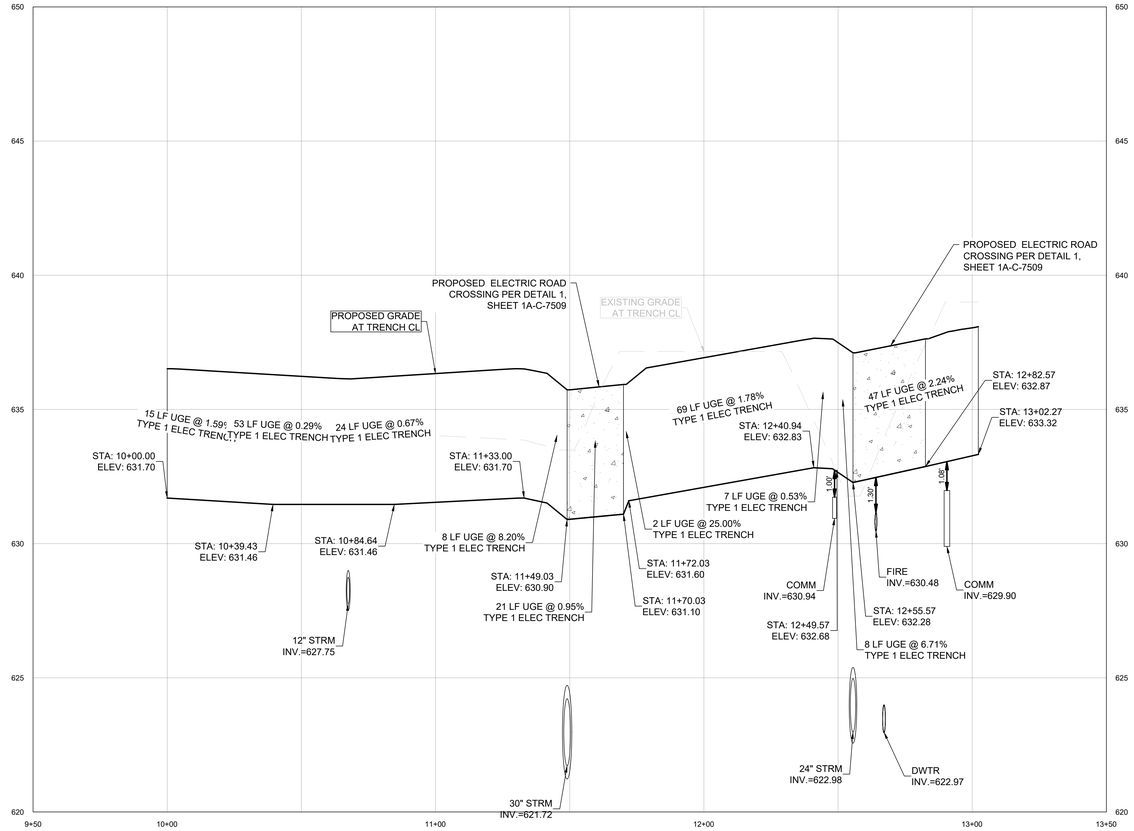

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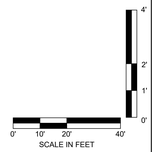

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TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
#27211
OKLAHOMA
04/09/2026

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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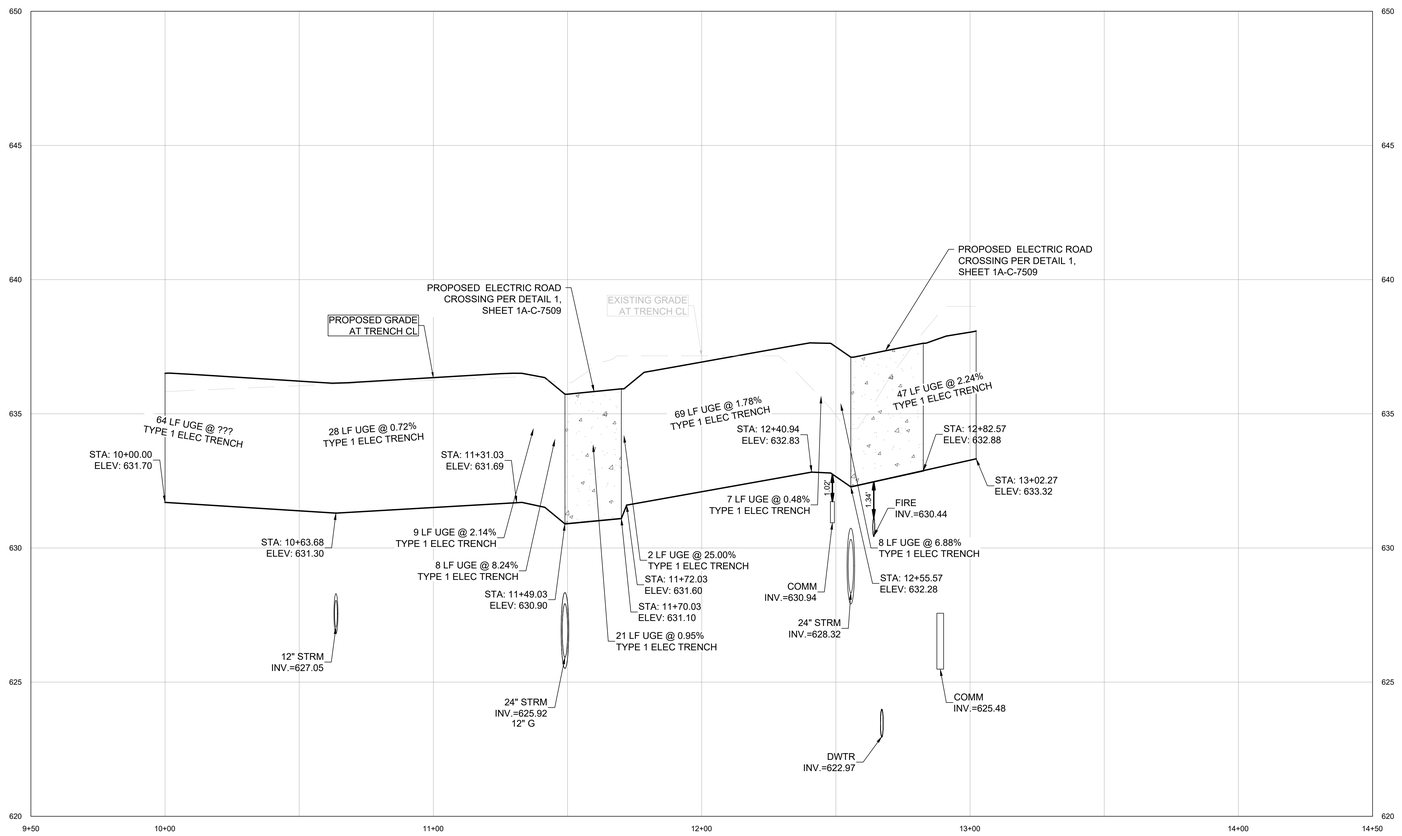

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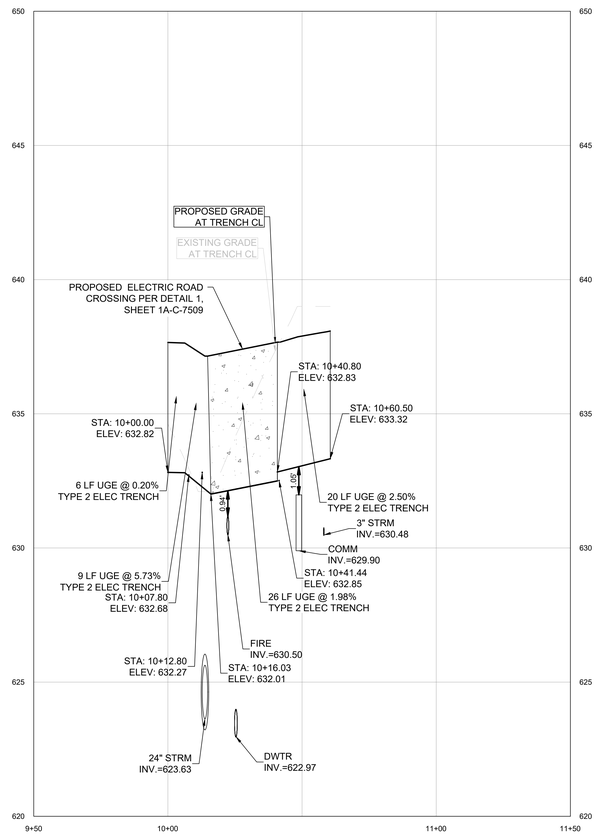

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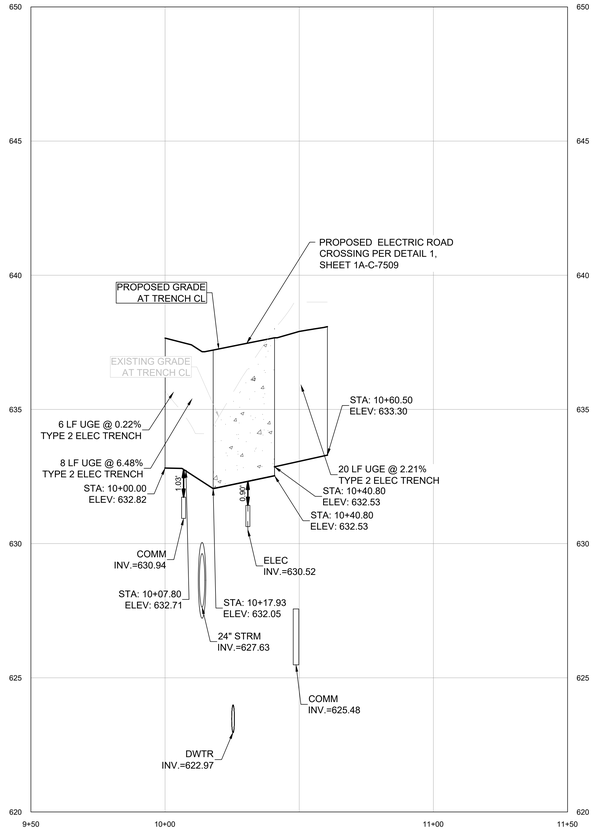

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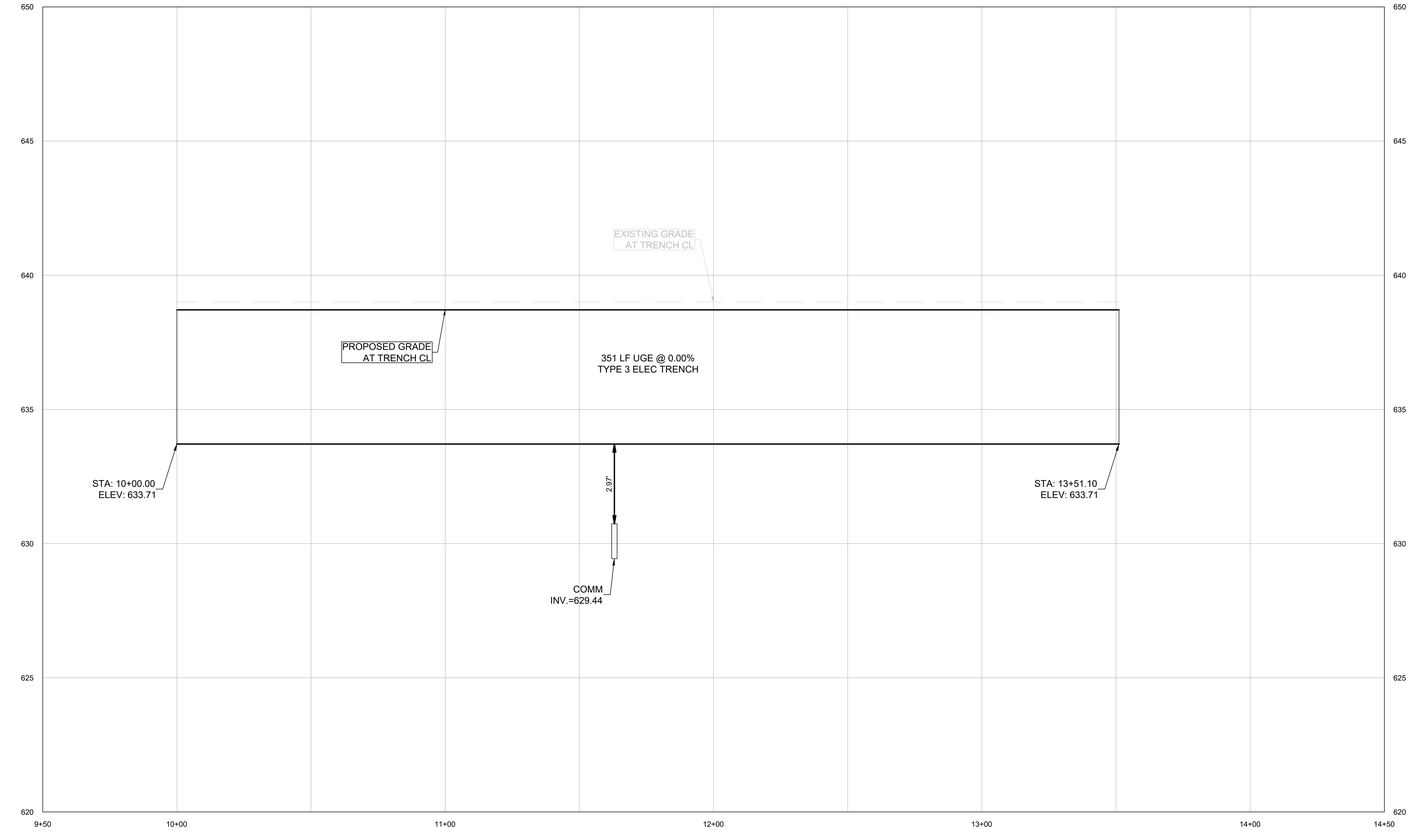

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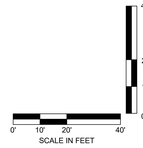

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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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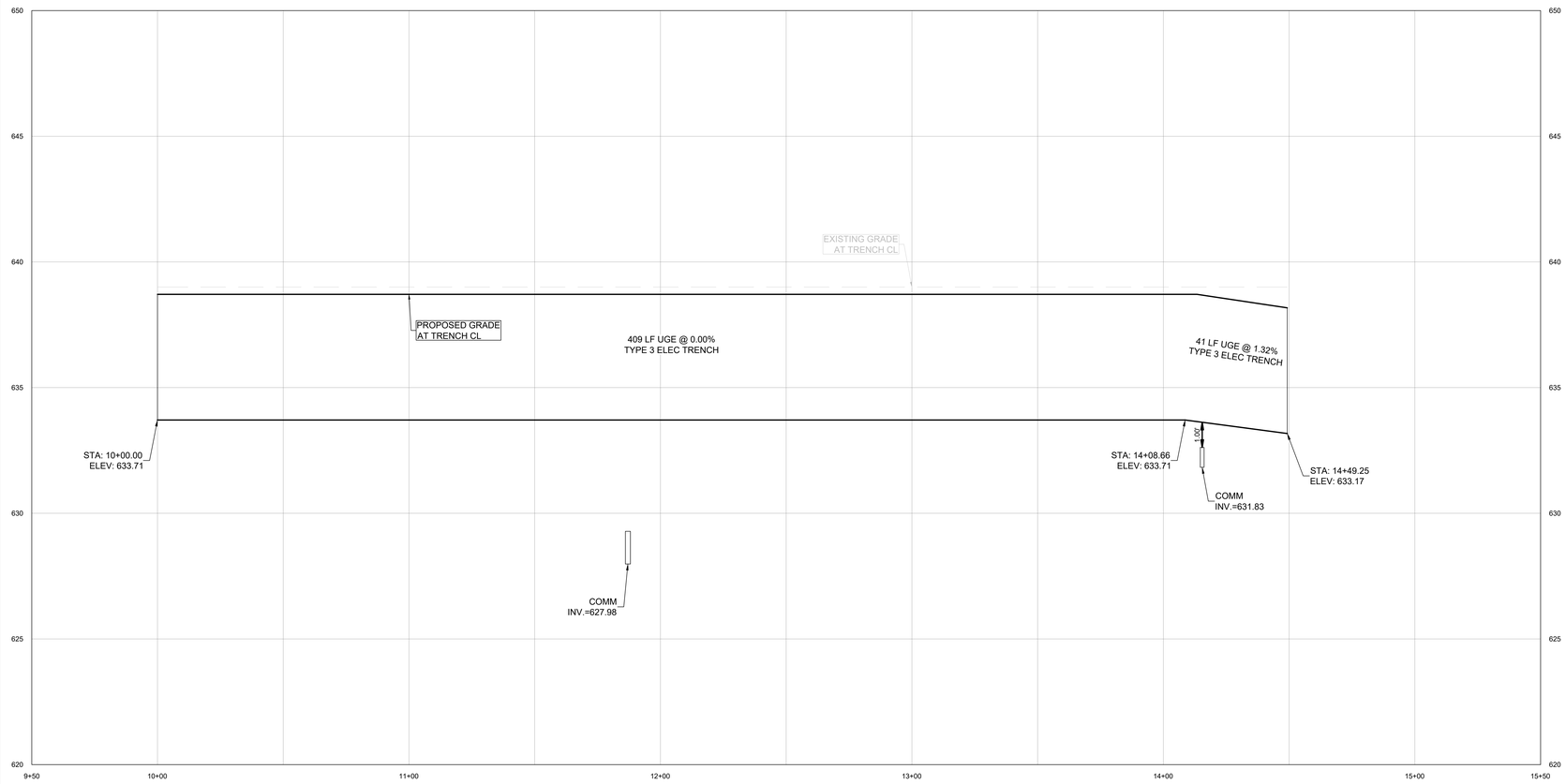

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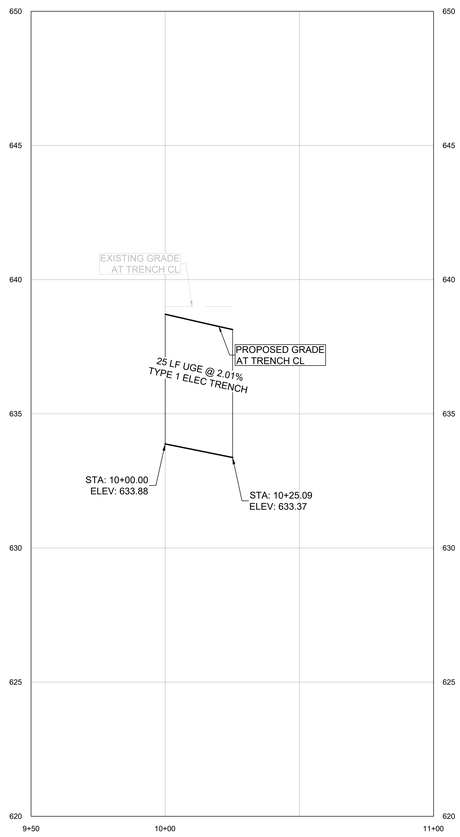

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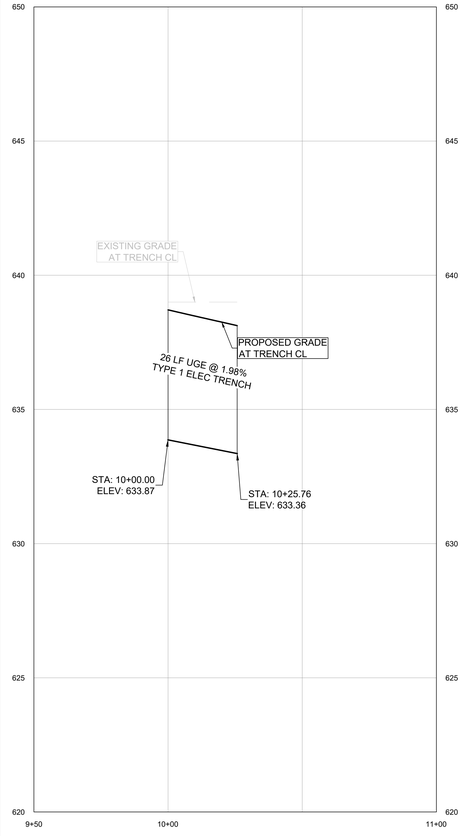

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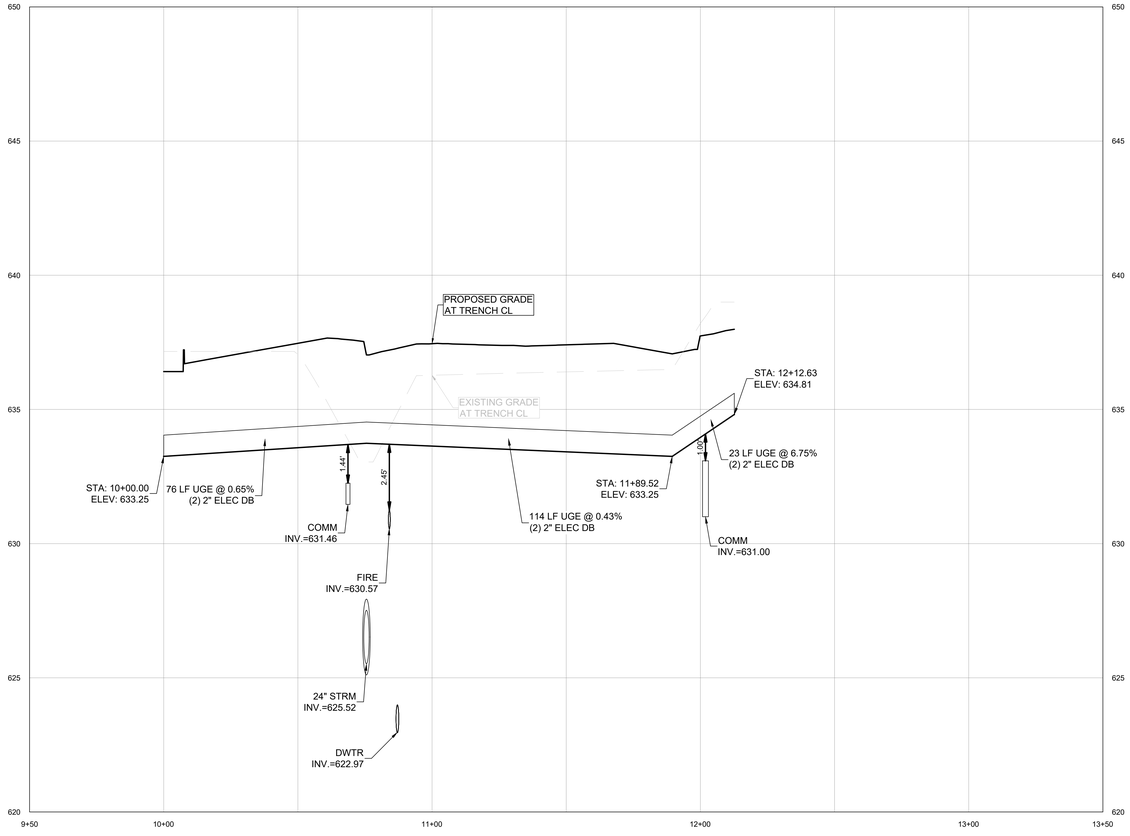

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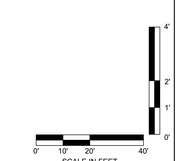

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(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32522
OKLAHOMA
04/09/2026

TRADE SECRETS

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7402

PAPER SIZE: E (36"x48")
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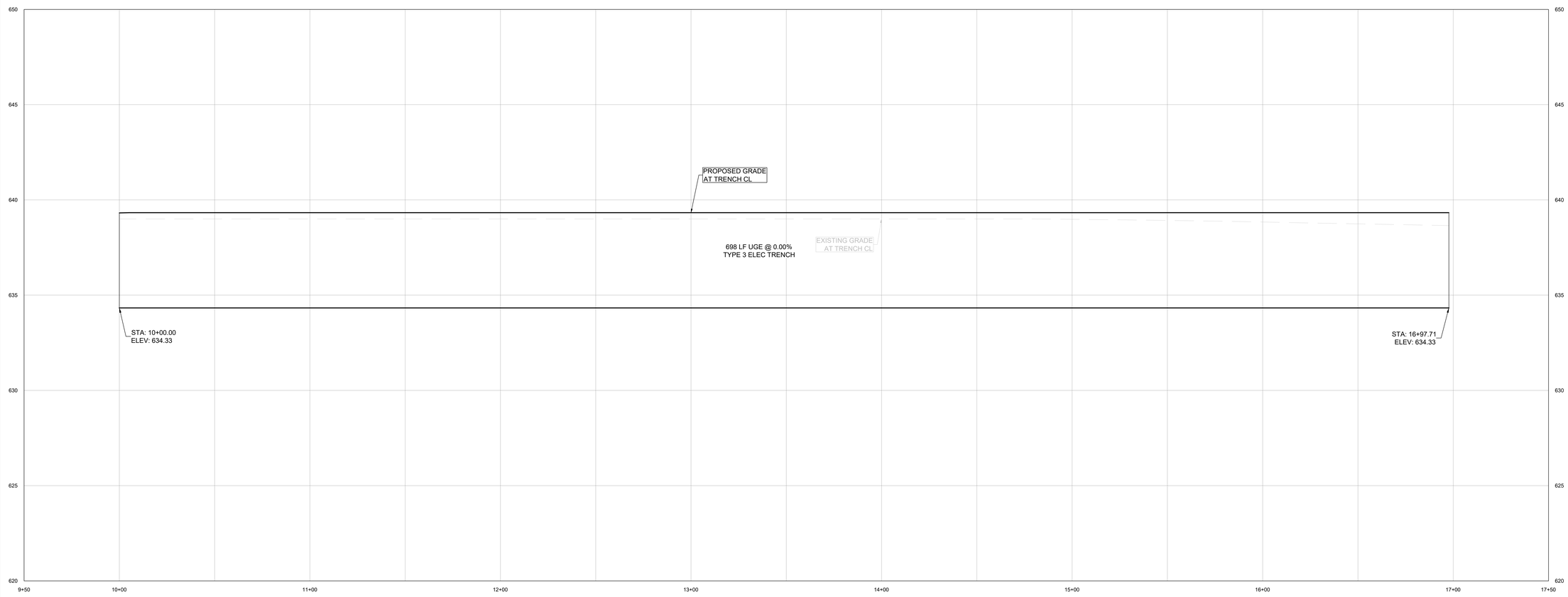

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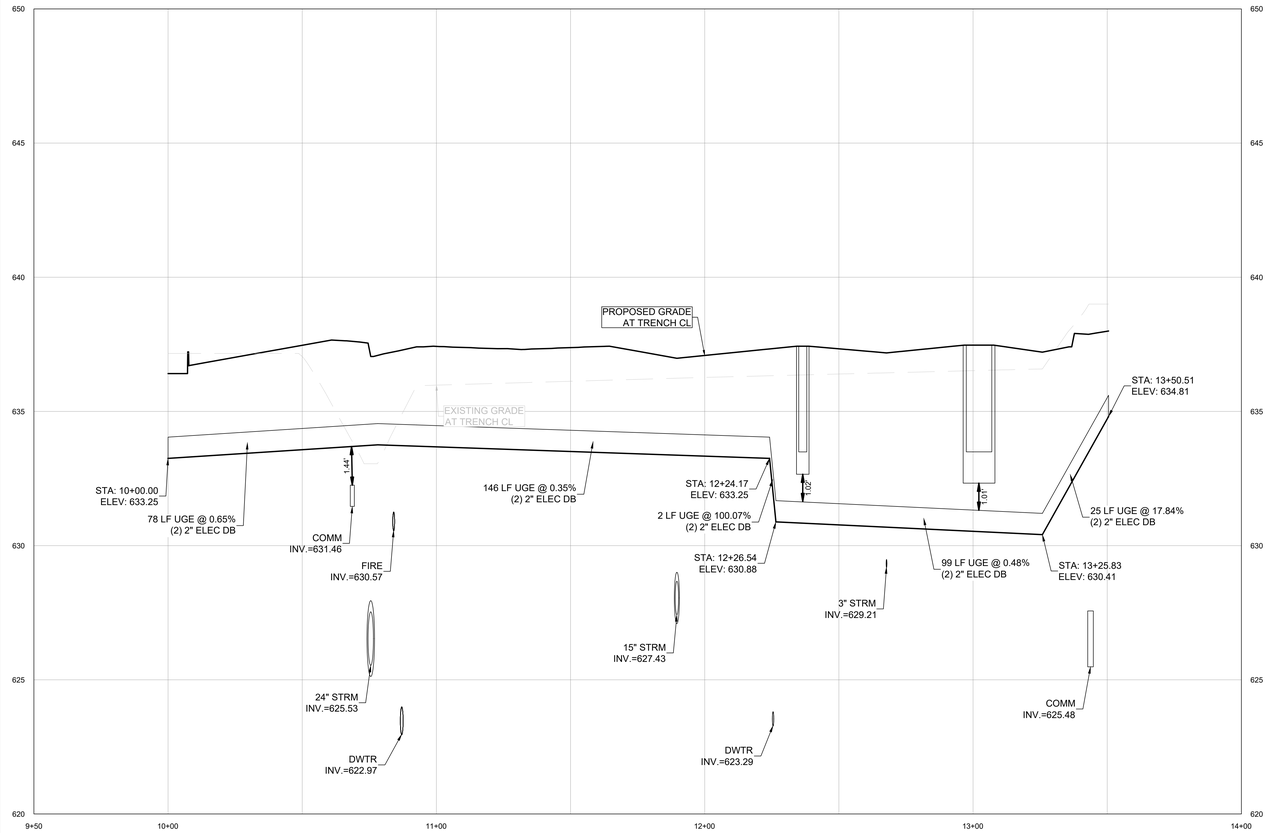

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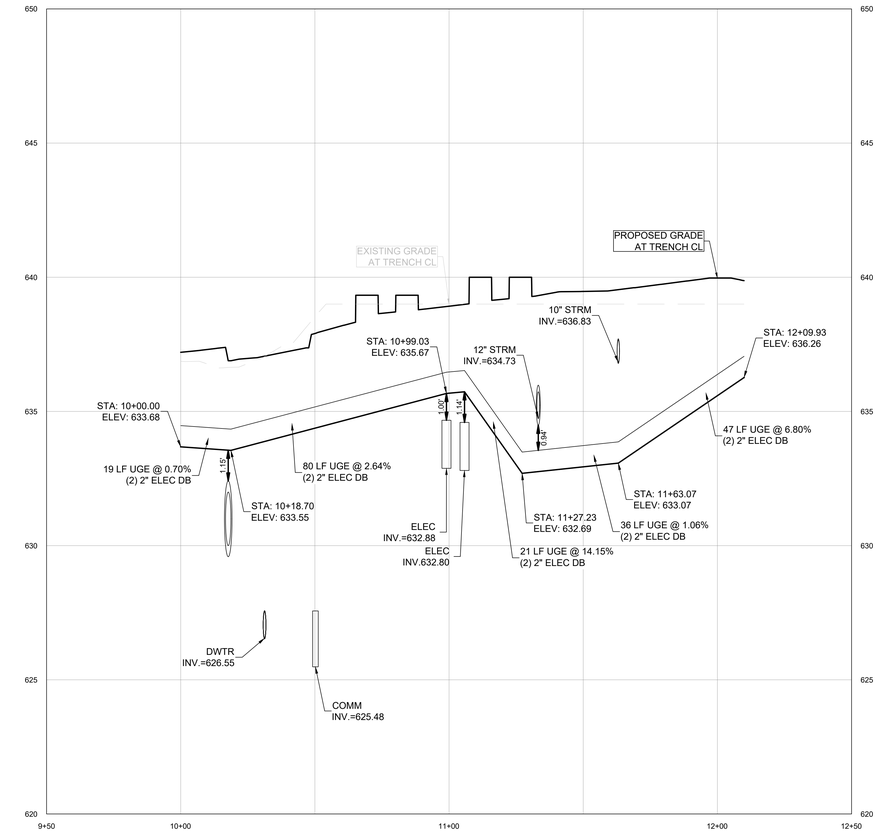

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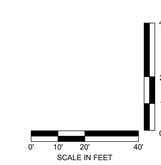

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DEVIN RANDALL
32621
OKLAHOMA
04/09/2026

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PROJ. NO.:10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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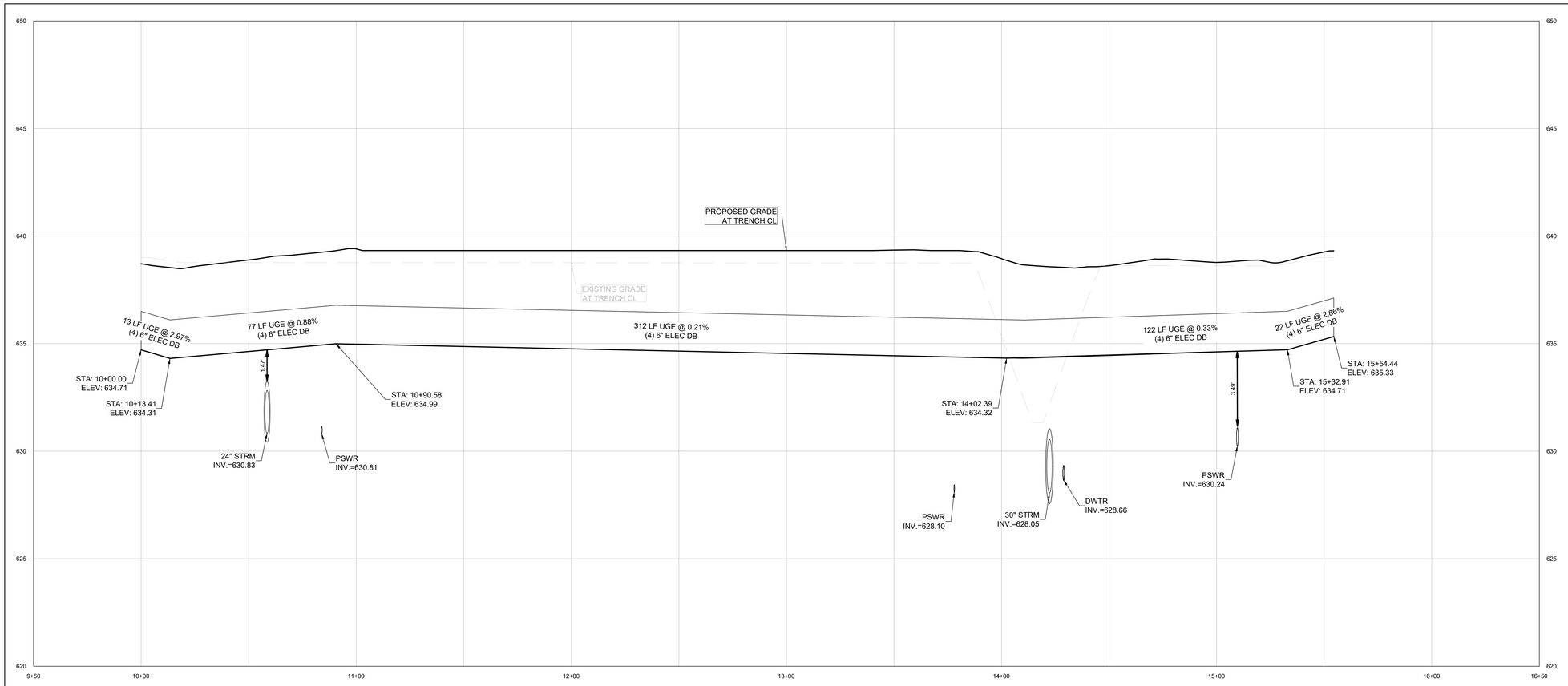

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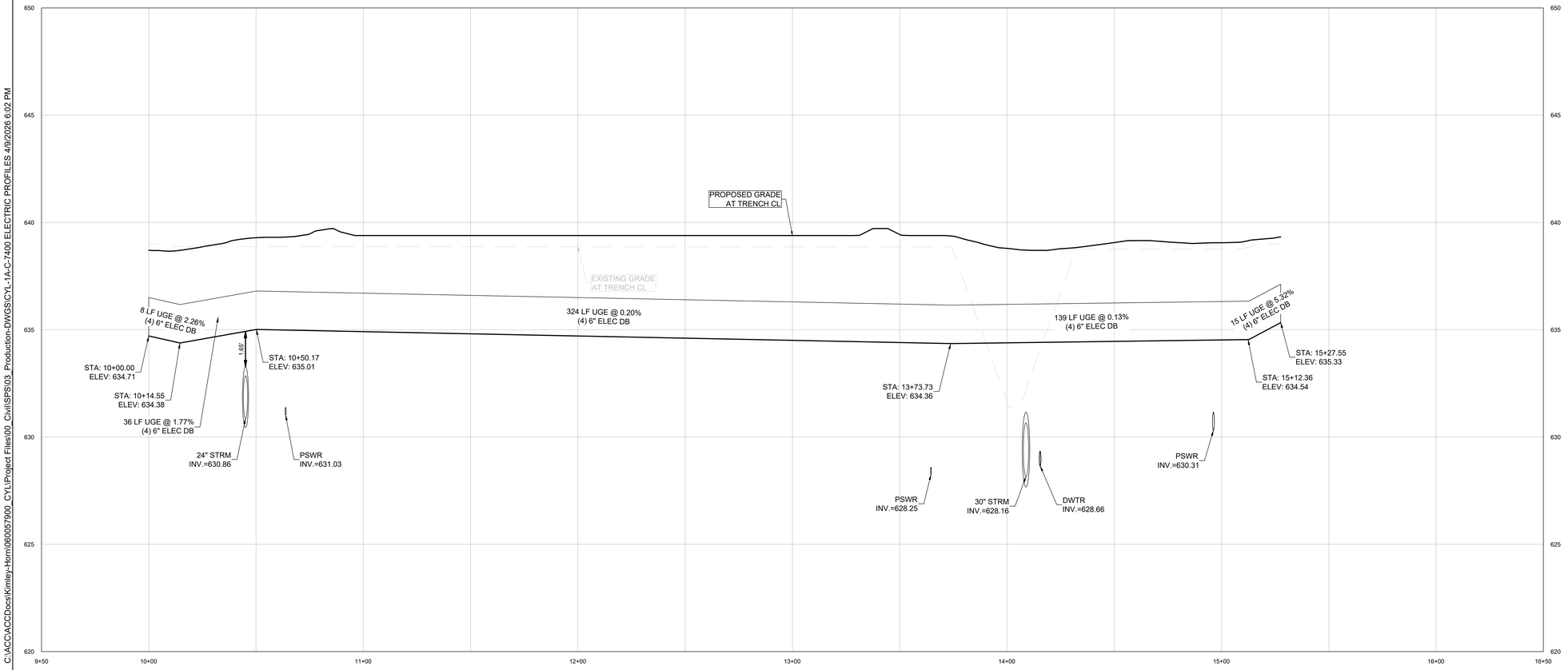

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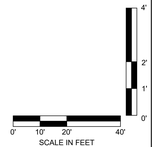

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL GIBSON
#32621
OKLAHOMA
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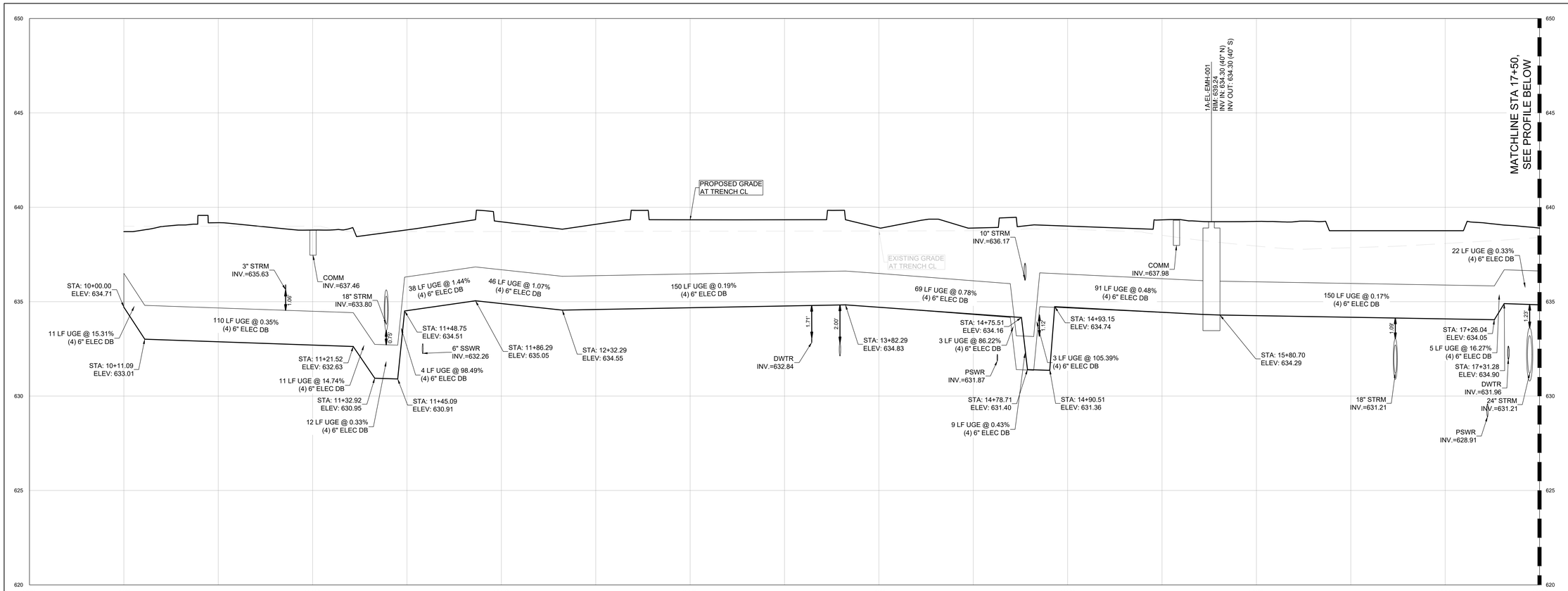

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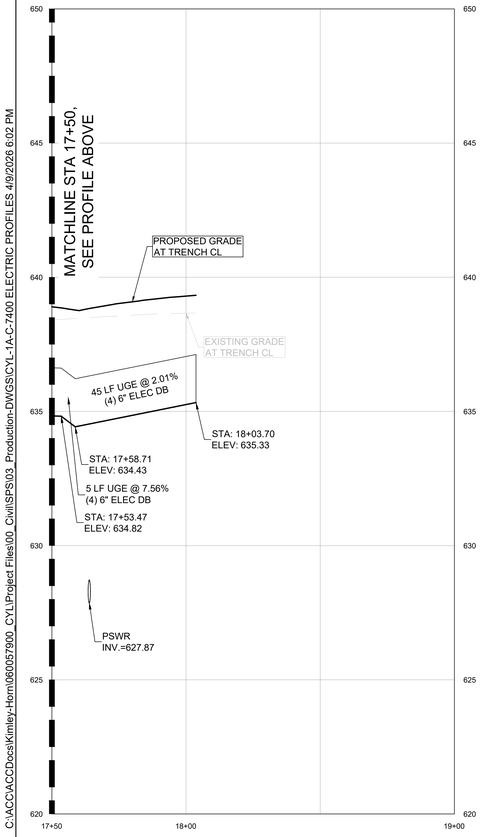

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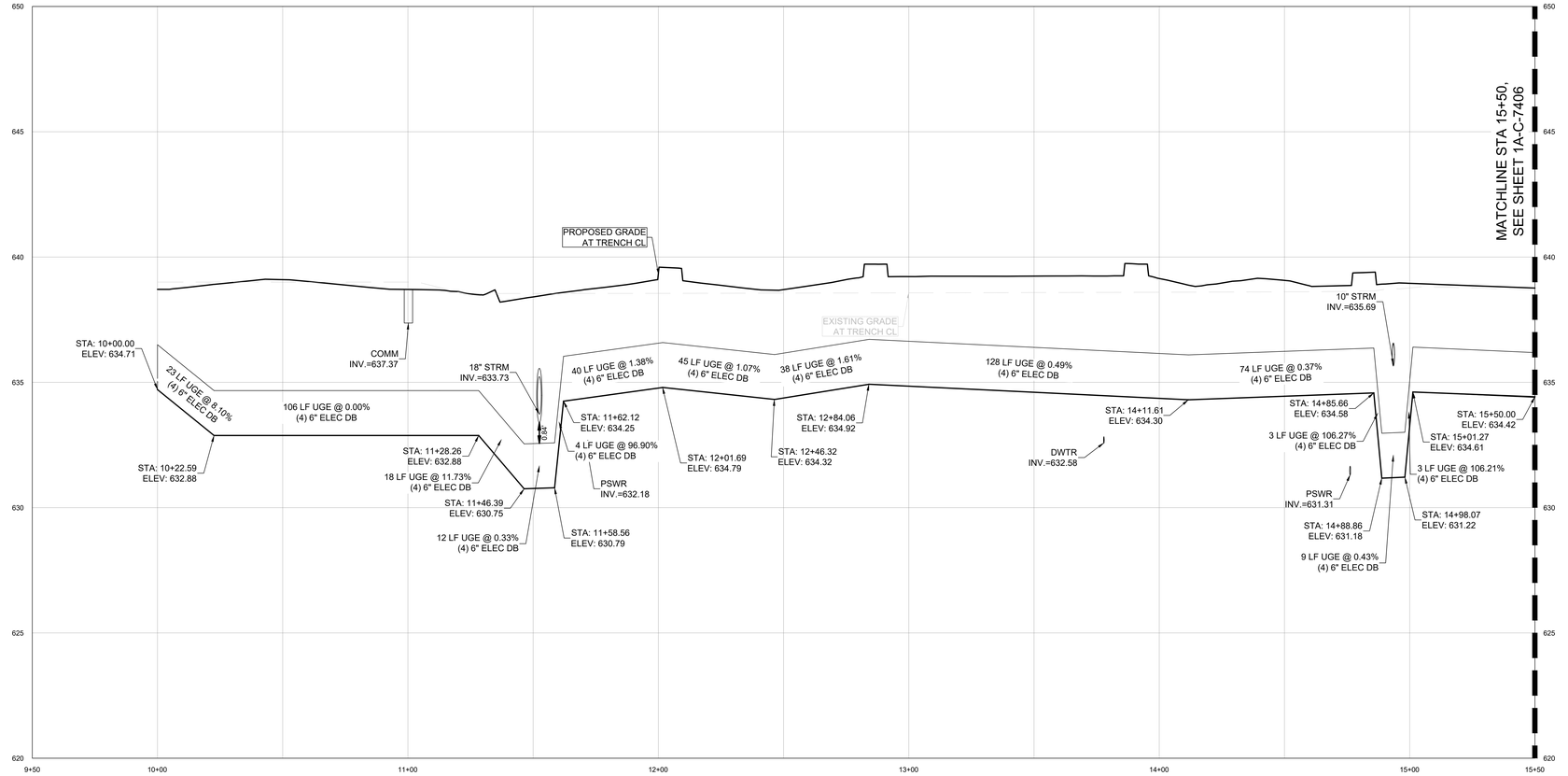

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LICENSED PROFESSIONAL ENGINEER DEAN RANDALL 21621 OKLAHOMA
04/09/2026

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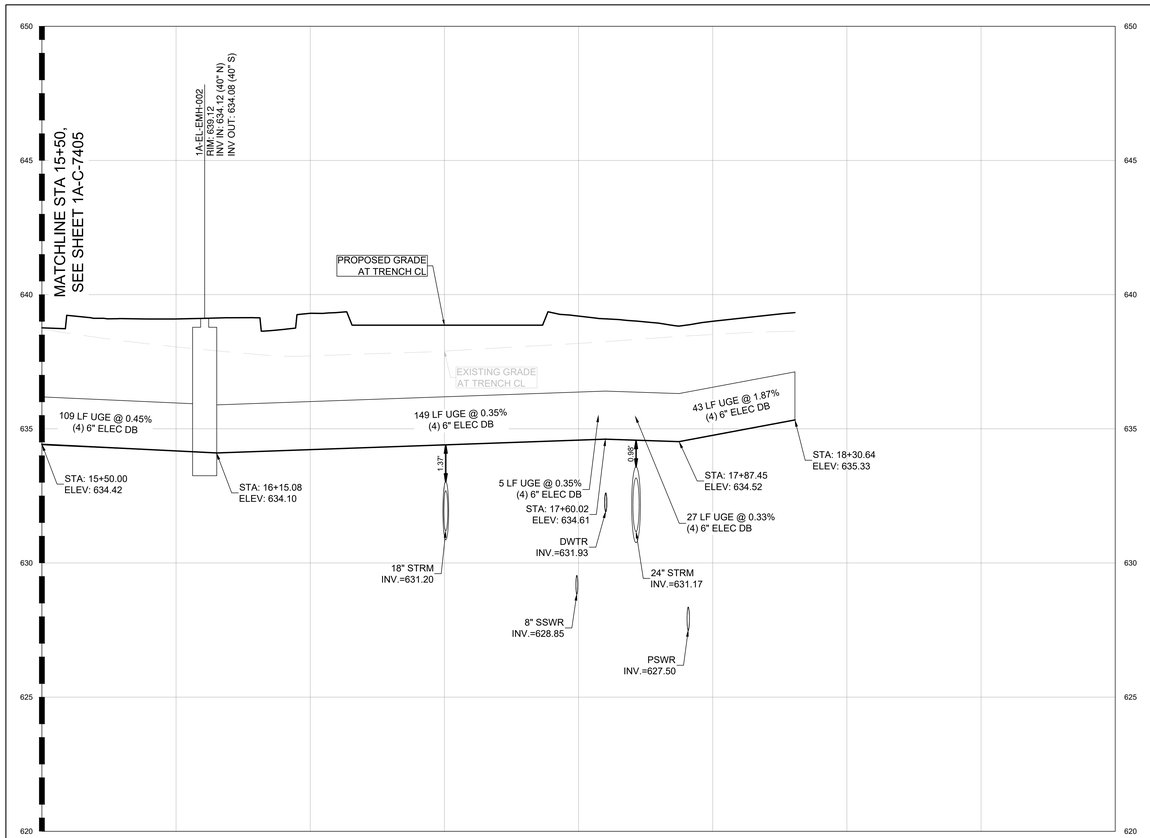

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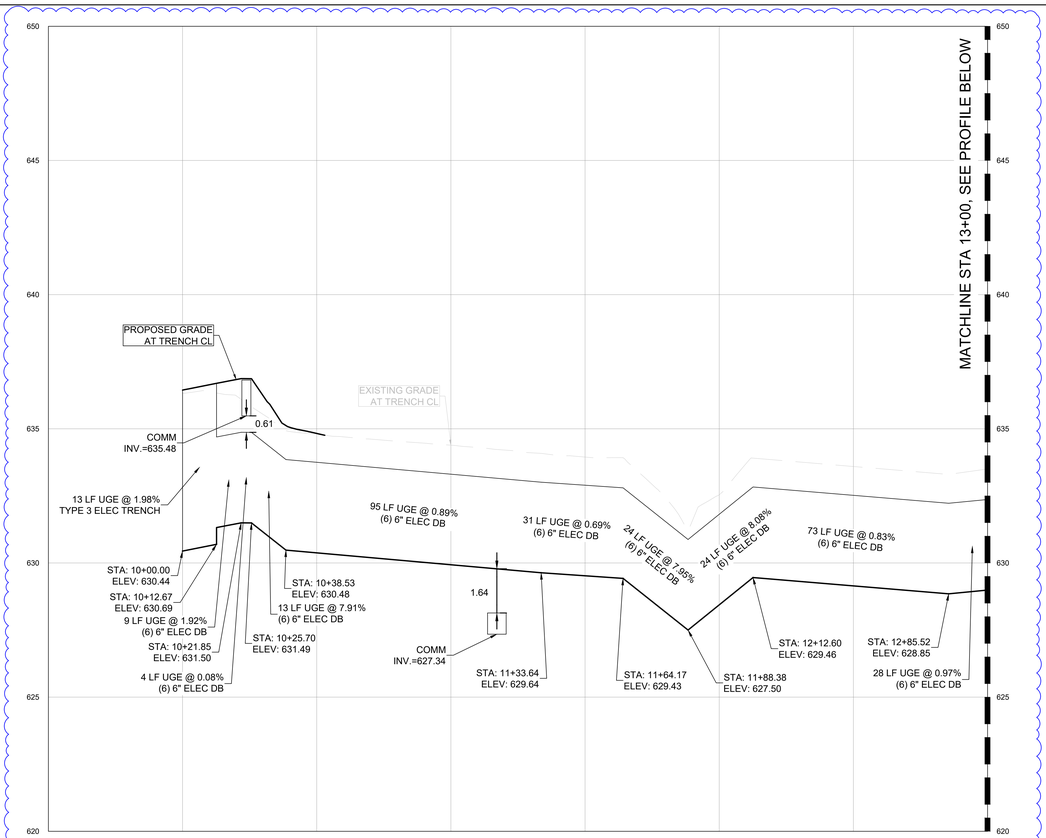

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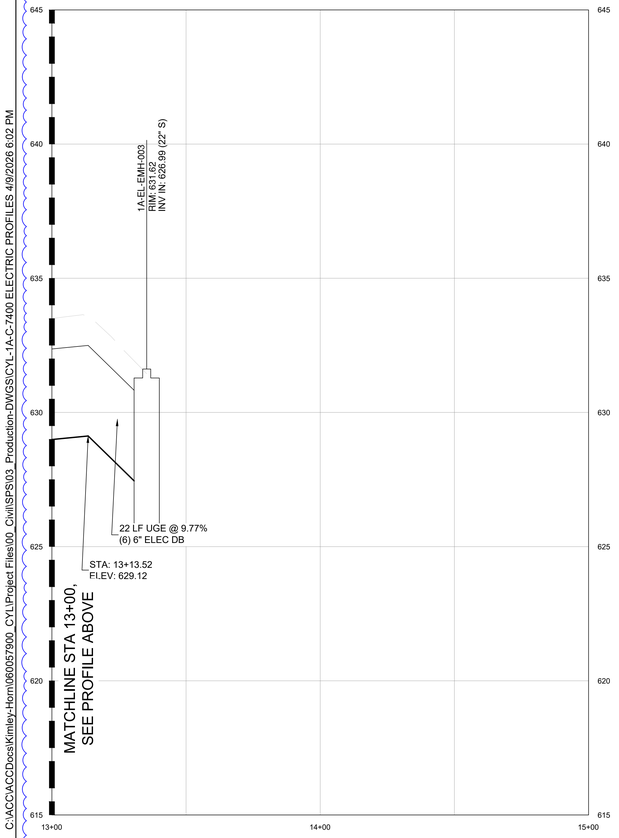

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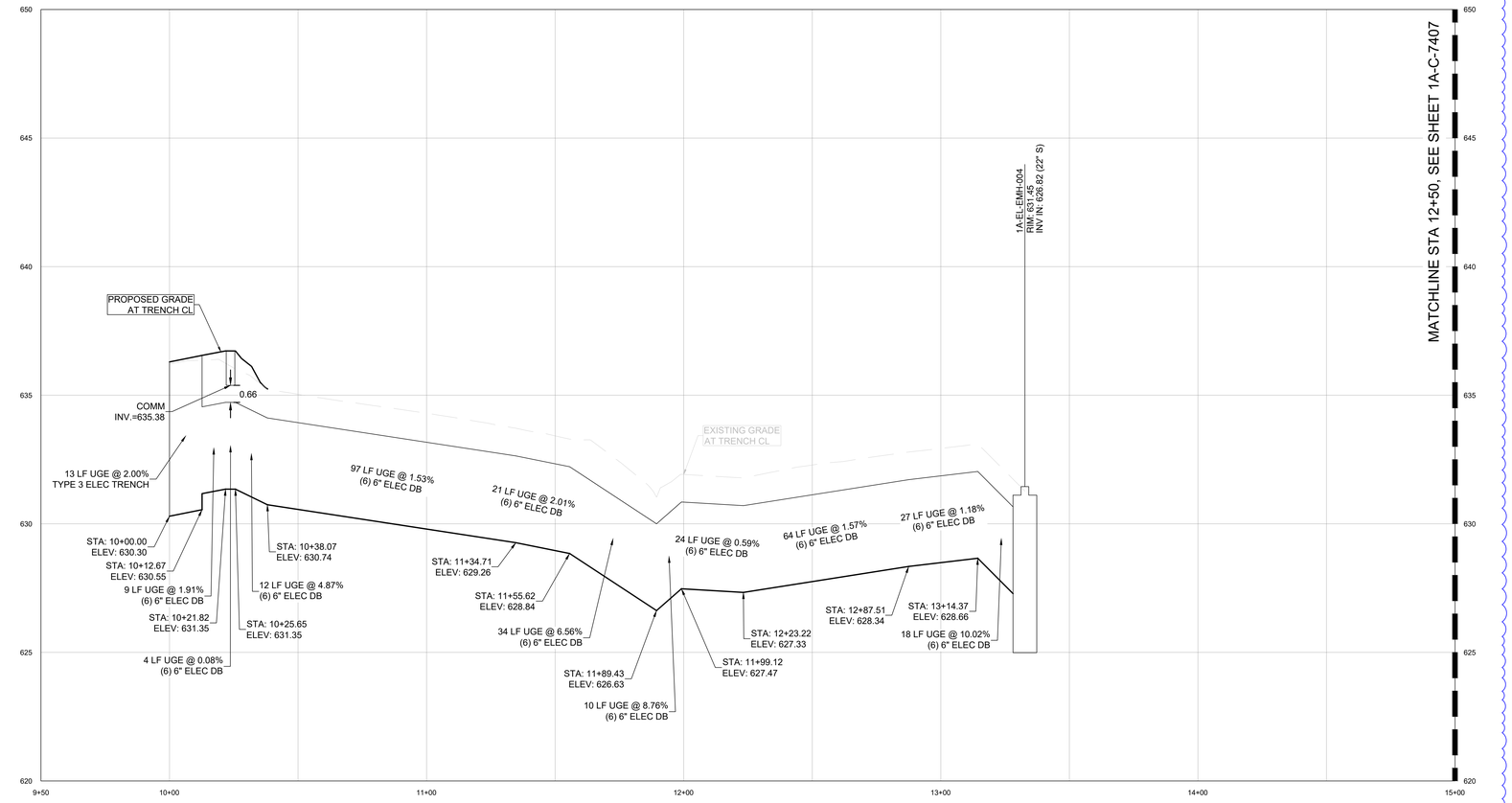

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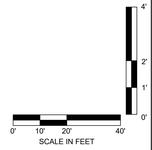

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04/09/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
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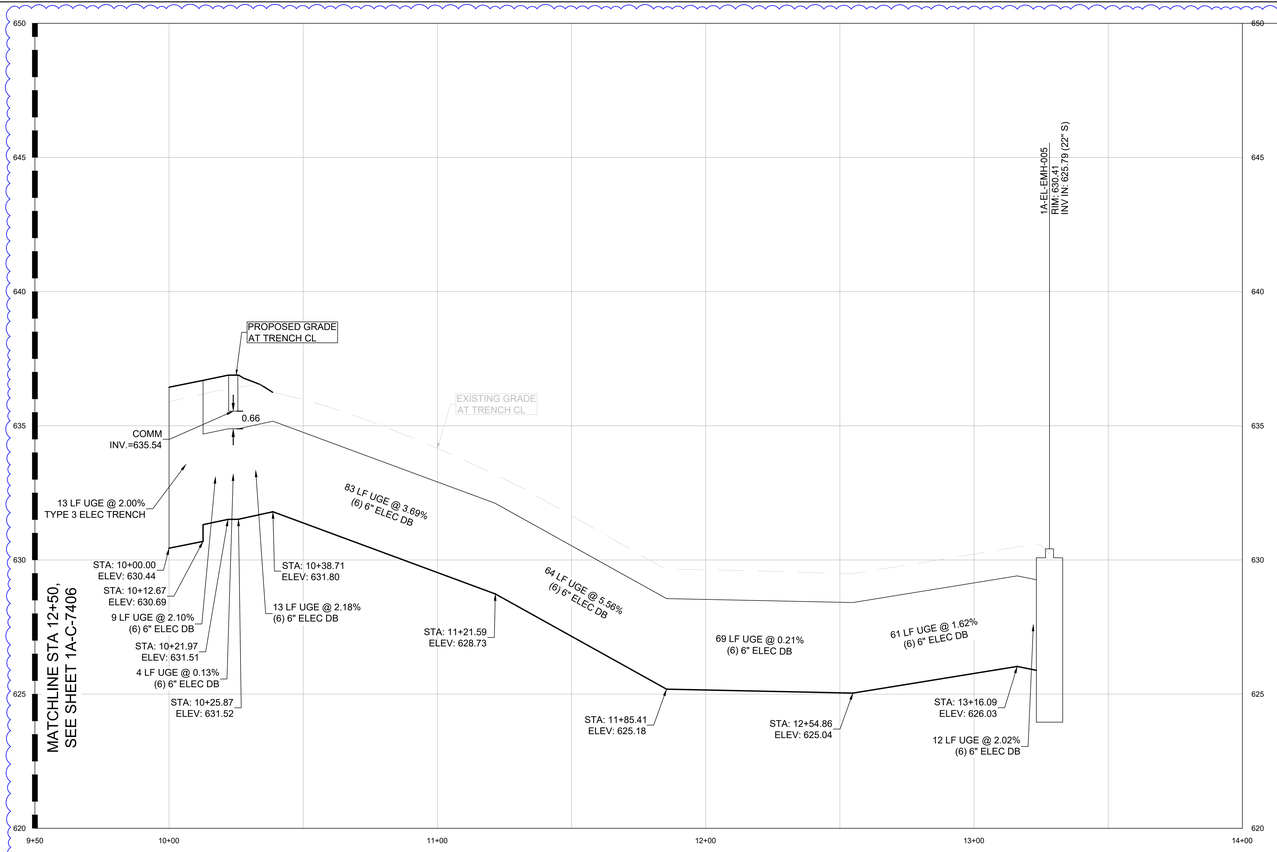

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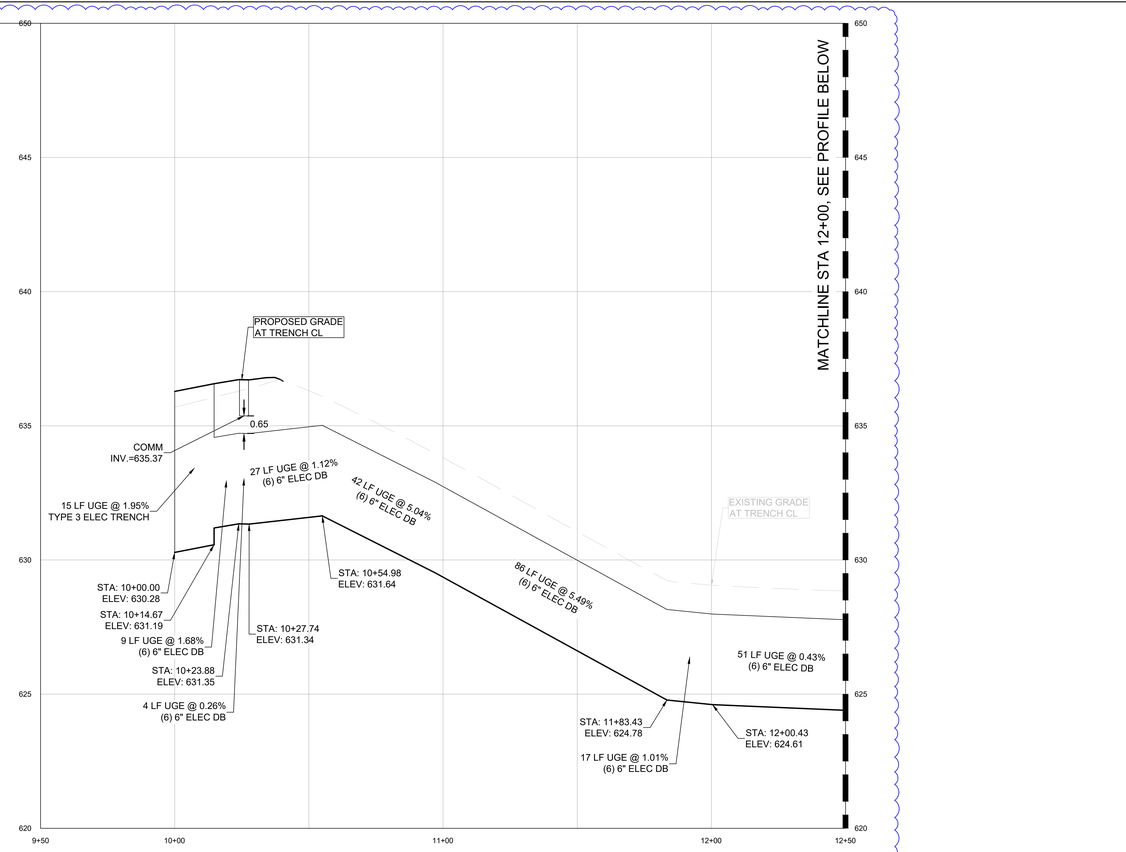

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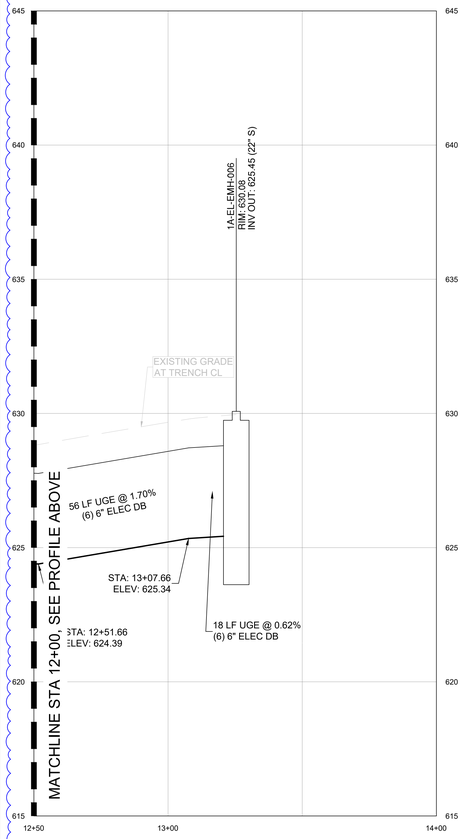

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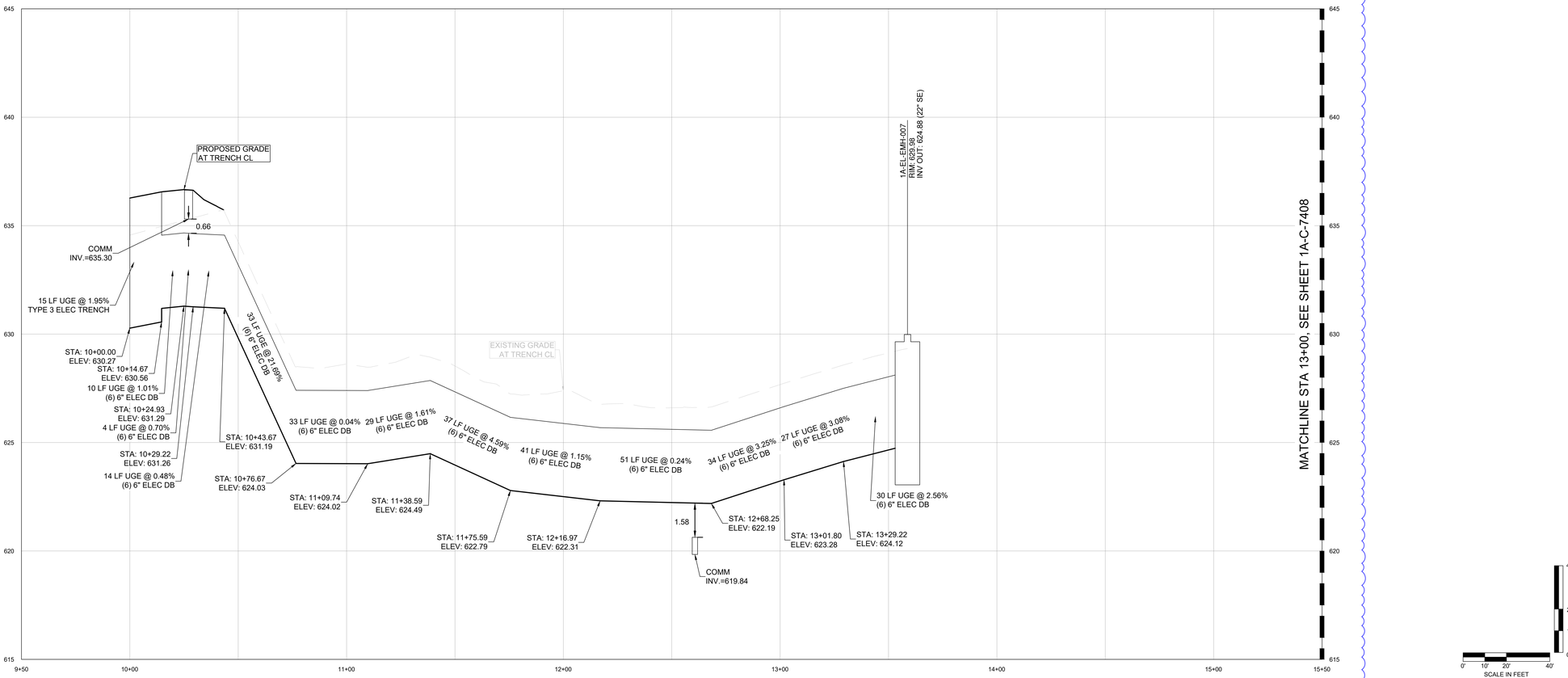

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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
#27621
OKLAHOMA
04/09/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434535

ELECTRIC PROFILES

SCALE: AS SHOWN

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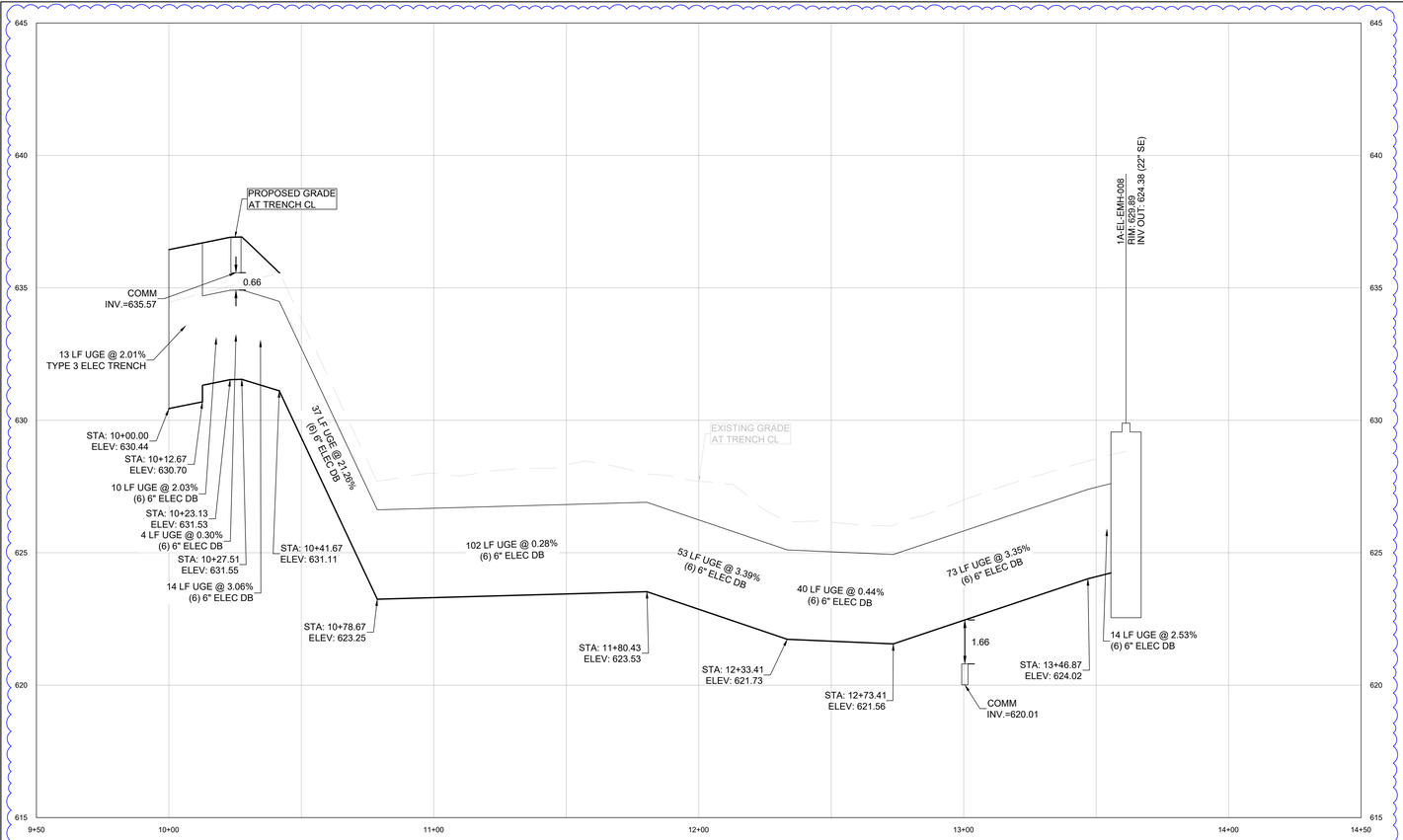

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1A-ELEC-26 PROFILE

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TULSA COUNTY, OK

PROJ. NO.: 10434535

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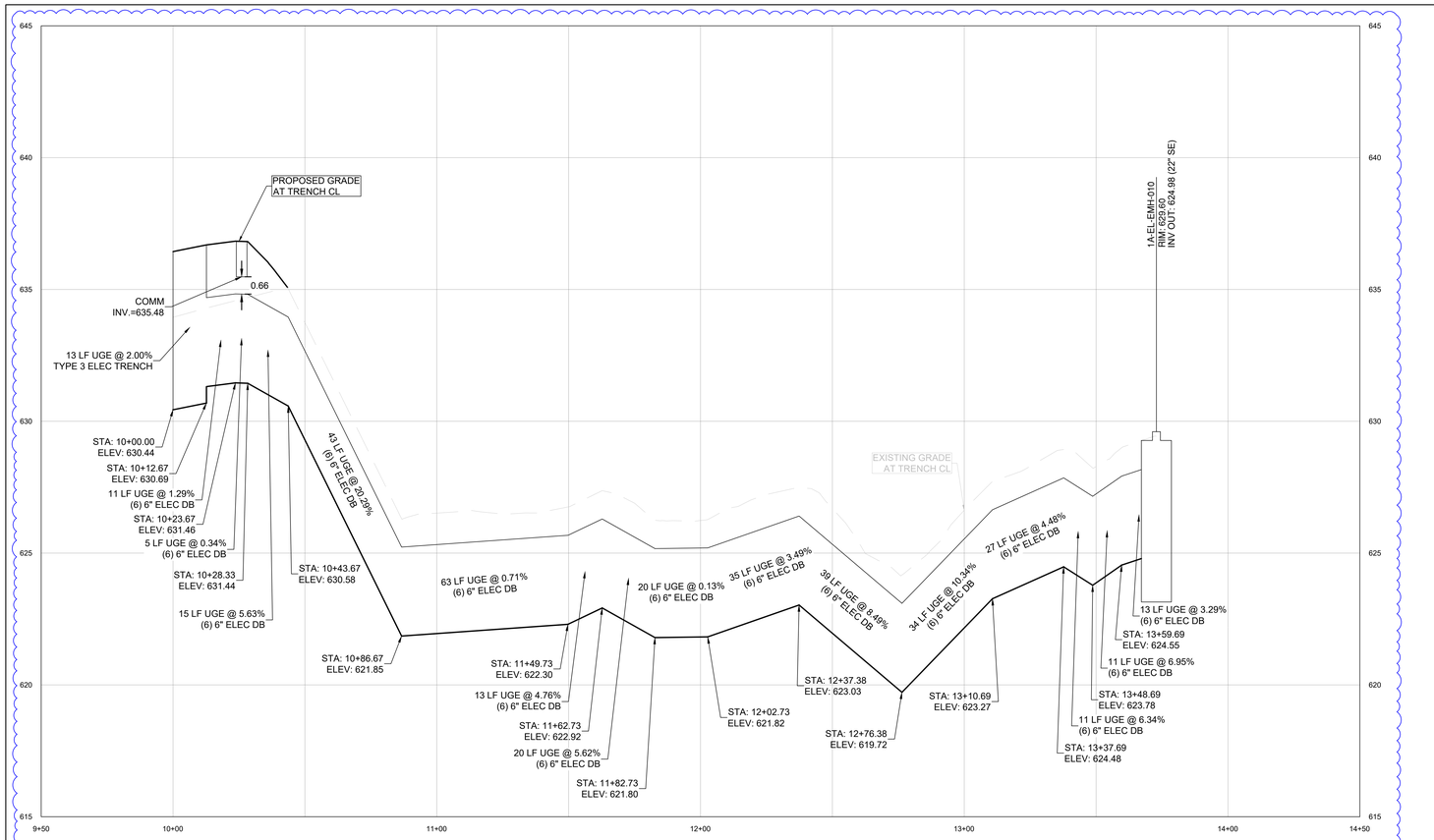

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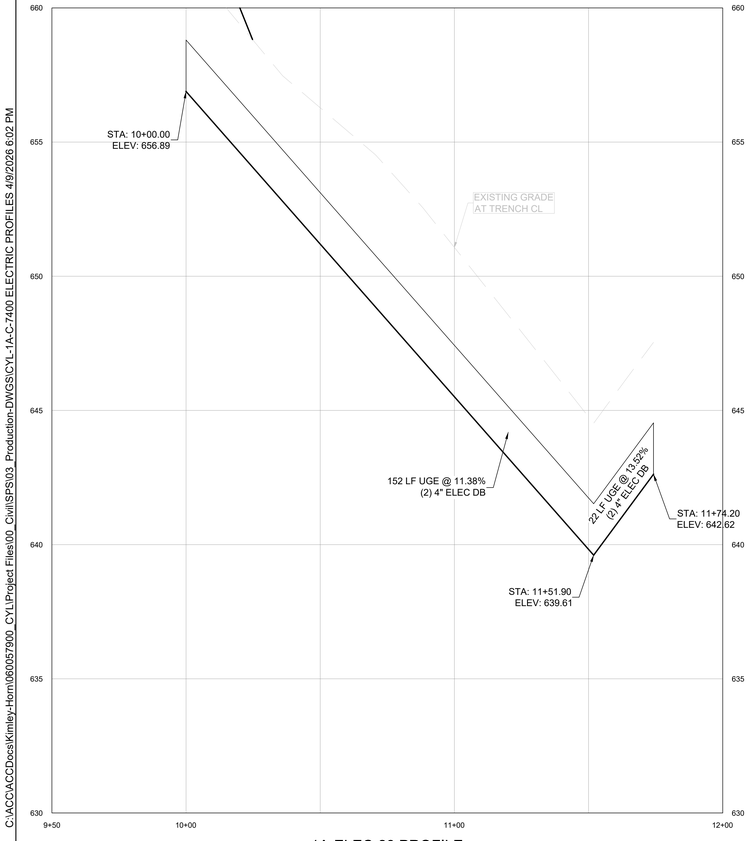

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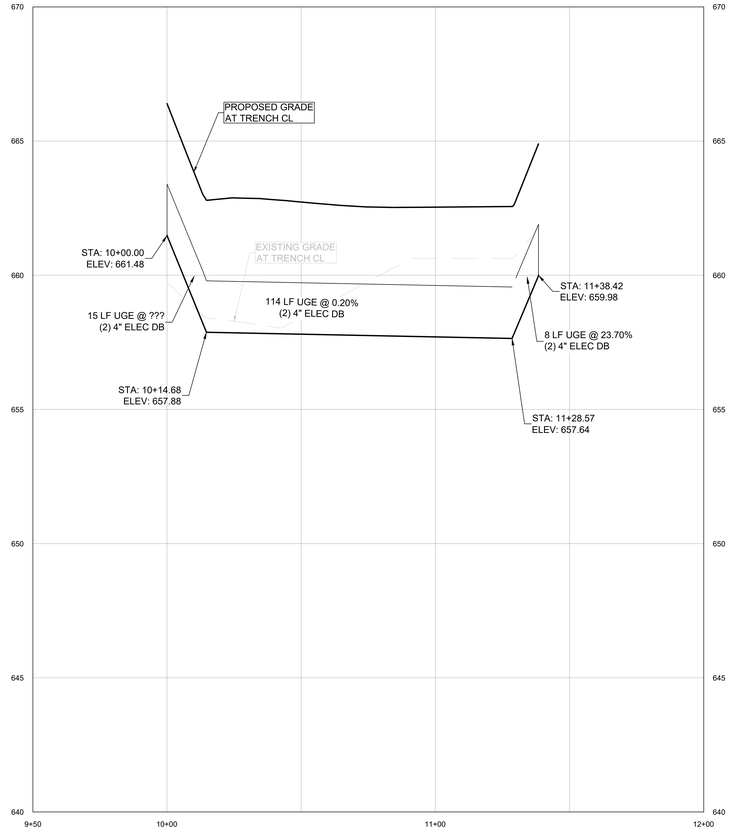

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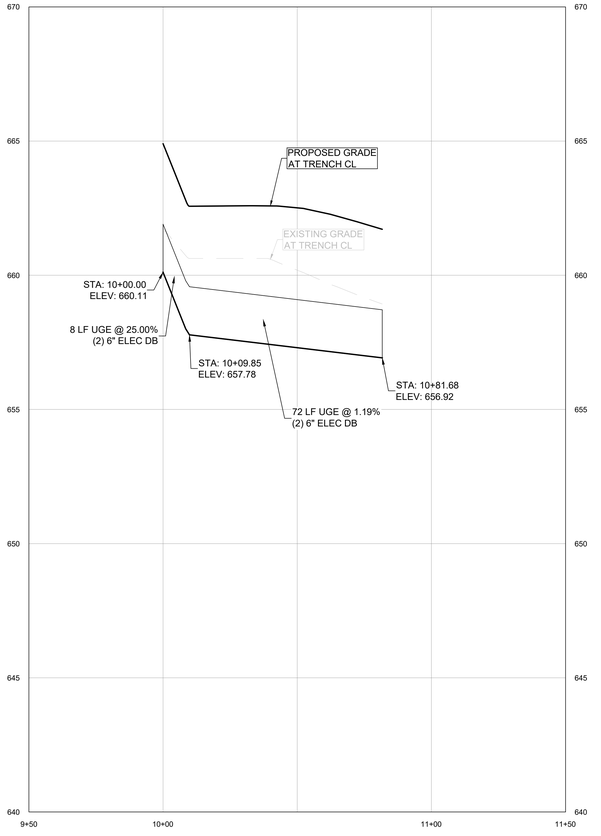

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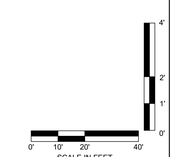

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LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL 32621 OKLAHOMA 04/09/2026

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ELECTRIC PROFILES

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7409

PAPER SIZE: E (36"x48")
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GENERAL DESIGN NOTES:

CABLE VAULT NOTES:

1. STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
2. APPLICABLE DESIGN CODES (CURRENT EDITIONS):
   A. ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION).
   B. ASTM C857 STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES (LOADING SPECIFICATIONS).
   C. ASTM C858 STANDARD SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES (PRODUCT SPECIFICATION).
3. PRECAST RATED FOR 300 PSF UNIFORM LIVE LOAD (PEDESTRIAN RATED).
4. DESIGN FILL RANGE: 0' (AT GRADE).
5. GROUND WATER TABLE FOR STRUCTURAL CALCULATIONS IS BASED UPON GROUND WATER TABLE AT 5.0' BELOW GRADE. IF DESIGN (OR ACTUAL) WATER TABLE IS LESS THAN ASSUMED,REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE, INC. UPON REVIEW OF THIS SUBMITTAL.
6. LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN, SEE CALCULATIONS):
   A. EQUIV DRY SOIL FLUID PRESSURE = 47 PCF.
   B. EQUIV SATURATED SOIL FLUID PRESSURE = 85 PCF.
   C. LIVE LOAD SURCHARGE PRESSURE = 80 PSF.
   D. HYDROSTATIC WATER PRESSURE = 62.4 PCF.
7. DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 5,000 PSI (MIN).
8. REINFORCEMENT:
   A. CARBON-STEEL DEFORMED BARS: ASTM A615, FY = 60KSI (MIN).
9. JOINT SEALANT (AS DETAILED AND NOTED IN DRAWINGS HEREIN):
   B. CS-102 CONSEAL BUTYL RUBBER SEALANT (OR EQUIV.) I.A.W. ASTM C990 FED, SPEC. SS-S-210.
10. PRECAST DESIGN DOES NOT INCLUDE ANY LATERAL OR SURCHARGE LOADS FROM OTHER BUILDINGS OR FOUNDATIONS ADJACENT TO THIS STRUCTURE. THIS STRUCTURE SHALL BE KEPT A MINIMUM OF 1:1 RATIO AWAY FROM OTHER FOOTINGS OR FOUNDATIONS.
11. TELECOM DETAILS INCLUDE REFERENCE TO SPEC STATION 33 81 26.

DUCTBANK NOTES:

1. DUCTS SHALL BE 2.5" OD (2" ID) HIGH DENSITY POLYETHYLENE (HDPE) SDR 11 WITH EXTERNAL SMOOTH FINISH, INTERNAL LONGITUDINAL RIBS. COLOR TO BE COMPLIANT WITH LOCAL UTILITY CODE REQUIREMENTS, OR ORANGE IF NOT SPECIFIED.
2. DUCTS SHALL HAVE A MINIMUM PULL TENSILE STRENGTH OF 1500 POUNDS.
3. NON-DETECTABLE UNDERGROUND WARNING TAPE MINIMUM 3" WIDE PLASTIC TAPE, COLORED ORANGE, WITH SUITABLE WARNING LENGTH IN ENGLISH AND NATIVE LANGUAGE DESCRIBING BURIED FIBER-OPTIC CABLES SHALL BE PLACED ALONG THE TRENCHES ENTIRE LENGTH. TAPE CONSISTS OF A MINIMUM 4.0 MIL OVERALL THICKNESS, WITH A TENSILE STRENGTH OF 19 MPA.
4. TRACER WIRE SHALL BE 16 AWG (0.62") INSULATED SOLID COPPER TRACER WIRE, RATED FOR DIRECT BURIAL.
5. THE TRACER WIRER TERMINAL BLOCK SHALL BE RATED FOR CORROSIVE ENVIRONMENTS, SIZED TO ACCOMMODATE THE MAXIMUM NUMBER OF TRACER WIRES PER VAULT.
6. THE CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED. PREVENT DAMAGE TO EXISTING FACILITIES. THE SURVEY RESULTS SHALL BE INCORPORATED INTO IFC REDLINE SET.
7. THE CONTRACTOR SHALL CONFIRM ROUTING AND TERMINATION LOCATIONS OF CONDUIT BANKS PRIOR TO EXCAVATION FOR ROUGH-IN.
8. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF MANHOLES PRIOR TO EXCAVATING FOR INSTALLATION.
9. AREAS AFFECTED BY THE WORK MUST BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION.
10. THE DUCTS SHALL HAVE A MINIMUM SLOPE OF 4" PER 83' (0.33 PERCENT).
11. THE CONTRACTOR SHALL SLOPE DUCTS AWAY FROM BUILDING ENTRANCES.
12. THE DUCTS SHALL BE INSTALLED IN SINGLE, UNINTERRUPTED RUNS, WITHOUT THE USE OF FITTINGS OR CONNECTIONS BETWEEN CABLE VAULTS.
13. THE CONTRACTOR SHALL PROVIDE SUITABLE FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE REQUIRED AT THE CABLE VAULT.
14. THE CONTRACTOR SHALL TERMINATE CONDUIT AT MANHOLE ENTRIES USING APPROPRIATE ROXTEC SEALS, AND EXTEND 0.33" PAST THE INSIDE WALL OF THE CABLE VAULT TO ALLOW ATTACHMENT OF COUPLINGS.
15. CONDUITS SHALL BE BANDED TOGETHER BEFORE BACKFILLING.
16. BACKFILL SHALL BE SELECTED EXCAVATED MATERIAL THAT IS FREE OF DEBRIS AND COBBLES GREATER THAN 0.51" IN DIAMETER.
17. CONDUITS SHALL BE CLEANED AND CAPPED. THE CONTRACTOR SHALL USE SUITABLE CAPS TO PROTECT INSTALLED DUCT AGAINST ENTRANCE OF DIRT MOISTURE.
18. CONDUITS SHALL HAVE A 600LB POUNDS STRETCH-TENSION MULE TAPE. THE MULE TAPE SHALL BE TIED TO ITS DUCT COVER/PLUG TO KEEP IT FROM BEING PULLED BACK INTO THE DUCT.
19. CONDUIT SHALL BE TESTED USING A MANDREL-BLOWING PROCESS AFTER TRENCHES HAVE BEEN BACKFILLED OR AFTER A DIRECTIONAL BORE.

TRENCH DUCT NOTES

1. OLD CASTLE PLASTIBETON IS THE BASIS OF DESIGN. SEE DETAILS ON SHEET 2A-C-7202. ALTERNATE MANUFACTURERS CAN BE CONSIDERED VIA SUBSTITUTION REQUEST AND SHALL BE REVIEWED BY OWNER'S TELECOM AS&E.
2. KEYS OR LOCKING TOOL SHALL BE STORED IN THE KEYBOX LOCATED IN THE DC.
3. TRENCH DUCT AND TRENCH COVER CUT ANGLES MAY VARY PER SITE CONDITIONS AND ARE TO BE FIELD VERIFIED AND CUT ON SITE.
4. STANDARD CROSSING HEAVY-DUTY TRENCH WITH NON-SKID & LOCKING COVER, REFER TO SPECIFICATION 15 16 17 FOR ADDITIONAL INFORMATION. SEE DETAILS SHEET 2A-C-7202
5. ROAD CROSSING-HEAVY DUTY TRENCH WITH LOCKING STEEL COVER(TRAFFIC RATED) WITH SPLICE PLATE. SEE DETAIL SHEET 2A-C-7202.
6. SET LEVELING BLOCKS EVERY 9'-10" AND AT EVERY JOINT FOR SMALLER SEGMENTS. PROVIDE MINIMUM OF 4" LEVELING BLOCK SUPPORT FOR EACH CHANNEL SECTION.
7. THE TOP OF THE LEVELING BLOCK IS FLUSH WITH THE TOP OF STONE.
8. PLACE GEOTEXTILE FABRIC AT JOINTS, PLACED OVER THE LEVELING BLOCKS UP TO TOP OF AGGREGATE BASE ON BOTH SIDES.
9. NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
10. IF ROADWAY PAVEMENT CUTTING AND PATCHING IS REQUIRED, REFER TO LOCAL CODE.
11. TO THE MAXIMUM EXTENT POSSIBLE THE GROUND ADJACENT TO THE TRENCH SHALL BE SLOPED AWAY TO PREVENT SURFACE DRAINAGE INTO TRENCH.
12. DIMENSIONS FOR TRENCH DUCT ARE APPROXIMATE. FOR TRENCH DETAILS REFER TO DIVISION 15 16 17 FOR EXACT PRODUCT DIMENSIONS. (TYPICAL FOR ALL DETAILS)
20. TRACER WIRE SHALL BE INSTALLED ON THE OUTSIDE OF THE UNDERGROUND CONDUITS. PROVIDE ONE TRACER WIRE PER FIBER ROUTE SEGMENT, INDEPENDENT OF CONDUIT COUNT, ON TOP OF AND CENTERED RELATIVE TO CONDUIT SEGMENT BUNDLE. SECURE IT WITH TAPE OR TWISTS TO CONDUIT AT 40" INTERVALS. TRACER WIRE WILL ENTER VAULT WALL, WHERE THE PENETRATION WILL BE SEALED, OR TERMINATE IN A TERMINAL POST AT OR CLOSE TO THE CABLE VAULT. PROVIDE TRACER WIRE SUPPORT UP TO TERMINAL BLOCK IN VAULT, TERMINATE TRACER WIRE ON TERMINAL BLOCK IN VAULT.
21. TERMINAL POSTS MUST BE INSTALLED CLOSE TO THE VAULT COVER RIM.
22. CONDUITS ENTERING BUILDING SHALL HAVE DUCT PLUGS AND/OR SIMPLEX PLUGS TO SEAL CONDUITS AND CABLING.
23. FIBER DUCTS SHALL HAVE 20 TIMES EXTERNAL RADIUS ON BENDS.
24. PROVIDE CONCRETE ENCASED DUCTBANK WHEN CROSSING UNDER ROADWAYS OR UNDER PARKING LOT.
25. WHEN COMING UP FROM UNDERGROUND INTO BUILDING OR CABINET, PROVIDE PVC COATED RIGID METALLIC CONDUIT LARGE RADIUS ELBOWS OR STUB UPS. HDPE CONDUITS SHALL NOT STUB UP THRU SLAB OF CONCRETE.
26. WHERE REINFORCED CONCRETE DUCTBANK IS REQUIRED, PROVIDE REBAR IN EACH CORNER AND ADD AN ADDITIONAL REBAR CENTERED IN BETWEEN EACH ADDITIONAL PAIR OF CONDUITS (TYPICAL FOR EACH OF 4 SIDES).
27. CONDUITS IN TELECOM DUCTBANKS SHALL BE SPOOLED HDPE SDR11.
28. PROVIDE 4,000 PSI CONCRETE WITHIN THREE FEET OF THE FOOTING EDGE FOR ALL DUCTBANKS THAT PASS BELOW A FOUNDATION WALL OR FOOTING.
29. MINIMUM BURIAL DEPTH FOR TELECOM CONDUIT IS 4 FEET. WHERE DUCTBANKS ARE ROUTED BENEATH A BUILDING SLAB, MINIMUM BURIAL DEPTH SHALL BE PER NEC ARTICLES 300.5 AND 300.50.
30. BOTTOM OF DUCTBANK TO BE INSTALLED AT OR BELOW FROST LINE.
31. PROVIDE MARKERS CENTERED ABOVE TELECOM DUCT BANKS AND WITH A MAXIMUM OF 300 FEET BETWEEN MARKERS ALONG ROUTE (PROVIDE ADDITIONAL MARKERS ALONG BENDS AS REQUIRED TO FOLLOW DUCT BANK PATH). MARKERS SHALL BE CLEARLY MARKED AS FIBER OPTIC. PROVIDE ONE OF THE FOLLOWING, DEPENDING ON INSTALLATION SURFACE.
   A. DIRT:
      1. RHINO TRIVIEW 400 UTILITY MARKER OR APPROVED EQUAL.
   B. CONCRETE OR ASPHALT:
      2. ACP CONCRETE GRAPHICS UTILITY MARKER OR APPROVED EQUAL
32. PROVIDE MINIMUM 600 LB TENSILE STRENGTH MULE TAPE FOR CABLE INSTALLATION TIED TO DUCT COVER / PLUG TO ENSURE TAPE DOES NOT GET PULLED BACK INTO DUCT.
33. TIE CONDUITS TIGHTLY IN A BUNDLE AND MAINTAIN THE SHAPE OF THE BUNDLE THROUGH THE ENTIRE LENGTH OF THE DUCT BANK. TRANSITION DUCT SPACERS AT TEN FEET FROM EACH MANHOLE OR SLAB PENETRATION.
34. PROVIDE DUCT BANK SPACERS ALONG ENTIRE LENGTH OF DUCT BANK AS TO PREVENT CONDUIT SAG OR MOVEMENT DURING CONCRETE PLACEMENT.
35. REFER TO CIVIL DRAWINGS FOR PAVEMENT, SURFACE, CURBING, AND SURFACE REPAIR DETAILS.
36. PROVIDE A #16 TFFN TRACER WIRE CENTERED NEAR THE TOP OF THE DUCT BANK. TERMINATE THE TRACER WIRE TO A TERMINAL POST LOCATED NEAR THE LID OF THE MANHOLE.
37. SPLICING OF HDPE SDR-11 NOT PERMITTED.

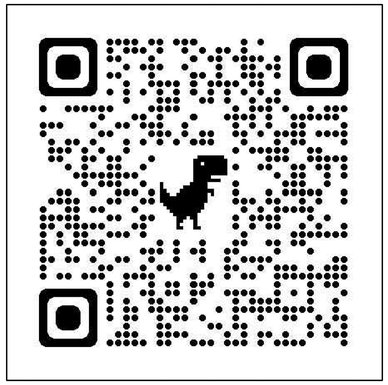
STANDARD OPERATING PROCEDURE (SOP) FOR WORKING AROUND FIBER TRENCH

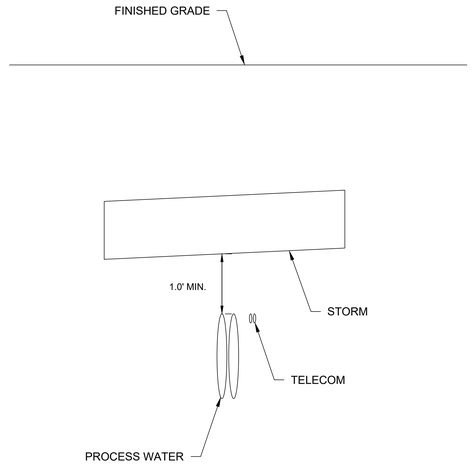
- *HOW ARE "ACTIVE CONSTRUCTION AREAS" DEFINED?*
  - FOR THE PURPOSES OF THIS DOCUMENT, AN "ACTIVE CONSTRUCTION AREA" IS DEFINED AS ANY PORTION OF A PROJECT SITE IN WHICH A LARGE AMOUNT OF ACTIVITY IS OCCURRING, OR IN WHICH ANY ACTIVITY THAT COULD DAMAGE FIBER TRENCH OR ASSOCIATED CABLING IS OCCURRING.
- *HOW ARE INACTIVE CONSTRUCTION AREAS DEFINED?*
  - FOR THE PURPOSES OF THIS DOCUMENT, AN "INACTIVE CONSTRUCTION AREA" IS DEFINED AS ANY PORTION OF A PROJECT SITE IN WHICH NO ACTIVITY IS OCCURRING, OR IN WHICH NO ACTIVITY THAT COULD DAMAGE FIBER TRENCH OR ASSOCIATED CABLING IS OCCURRING. THESE AREAS MAY INCLUDE PORTIONS OF A SITE AWAY FROM DC BUILDING(S) WHERE NO SCOPE IS SPECIFIED OR LAY-DOWN AREAS ARE LOCATED, AND/OR WHERE VEHICLE TRAFFIC, ROAD CROSSING, OR OTHER NON-INVASIVE CONSTRUCTION RELATED ACTIVITIES ARE IN PROGRESS

CONTRACTOR:

- PROTECTION OF INSTALLED FIBER TRENCH
  - UNTIL INSTALLATION IS FINISHED, PROTECT INSTALLED FIBER TRENCH FROM EXCESSIVE FORCES, SUCH AS THOSE CAUSED BY CONSTRUCTION TRAFFIC, IMPROPER BRIDGING TECHNIQUES, UNEVEN LOADING AT CROSSINGS, CARELESS EXCAVATIONS NEAR INSTALLED TRENCH, ETC.
    - FIBER TRENCH HAS AN H20 TRAFFIC RATING *WHEN IT IS IN ITS FINISHED INSTALLATION*.
      - (H20 = 32,000 LB AXLE WEIGHT OR WHEEL LOADING OF 16,000 LBS FOR AASHTO).
    - FIBER TRENCH SHALL BE CROSSED BY VEHICLES ONLY AT DESIGNATED CROSSINGS.
  - EVALUATE EACH CASE ON EACH SITE ACCORDING TO WORK ACTIVITIES. UPDATE THROUGHOUT CONSTRUCTION IN ACCORDANCE WITH PROGRESS OF ACTIVITY ON SITE.
- AT INSTALLED FIBER TRENCH IN ACTIVE CONSTRUCTION AREAS:
  - PLACE JERSEY / K-RAIL STYLE BARRIERS FILLED TO 200 LB GROSS WEIGHT ON TOP OF INSTALLED FIBER TRENCH COVERS. PLACE BARRIERS ORIENTED IN LINEAR ALIGNMENT WITH INSTALLED TRENCH AND SPACED 6 FT BETWEEN BARRIERS.
  - AT INSTALLED FIBER TRENCH IN INACTIVE CONSTRUCTION AREAS:
    - PROVIDE CONTINUOUS HIGH-VISIBILITY MARKED CAUTION ROPE ON EACH SIDE OF INSTALLED FIBER TRENCH. SUSPEND VIA CONSTRUCTION CONES.
      - BREAKS IN CAUTION ROPE SHALL OCCUR ONLY AT DESIGNATED VEHICLE AND PEDESTRIAN CROSSINGS.
  - AT DESIGNATED VEHICLE CROSSINGS:
    - PROVIDE FOUR (4) 24" X 30" SIGNS, ARRANGED TWO ON EACH SIDE OF THE CROSSING AND TWO ON EACH SIDE OF THE PATH OF TRAVEL, SUCH THAT TRAFFIC APPROACHING FROM EITHER SIDE OF THE CROSSING ENCOUNTERS A SIGN FACING THEM ON BOTH SIDES OF THE PATH OF THEIR TRAVEL
      - E.G., AT DRIVEWAY ORIENTED NORTH-SOUTH CROSSING FIBER TRENCH ORIENTED EAST-WEST, TWO SIGNS WILL BE ON NORTH SIDE OF CROSSING AND WILL FACE NORTH AND TWO SIGNS WILL BE ON SOUTH SIDE OF CROSSING AND WILL FACE SOUTH, OF THOSE SIGNS, TWO SIGNS WILL BE ON THE EAST SIDE OF THE DRIVEWAY AND TWO SIGNS WILL BE ON THE WEST SIDE OF THE DRIVEWAY.
    - SIGN REQUIREMENTS:
      - SIGN COLOR: HIGH-VISIBILITY "SAFETY ORANGE" REFLECTIVE PAINT, PER ANSI Z535
        - PANTONE MATCHING SYSTEM 151C
        - HEX #FF7900
      - TEXT COLOR: HIGH-VISIBILITY "SAFETY BLACK" PAINT, PER ANSI Z535
        - PANTONE MATCHING SYSTEM BLACK 6 C
        - HEX #101820
      - MESSAGE:
        - TOP LINE: "FIBER OPTIC UTILITY CROSSING"
        - MIDDLE LINE: MAX WEIGHT OF CROSSING
        - BOTTOM LINE: CONTACT INFORMATION OF <PERSON>
    - MOUNT SIGNS ON WOODEN POSTS SIZED TO SUPPORT SPECIFIED SIGN.
  - BRIDGES AT CROSSINGS:
    - CONSTRUCT BRIDGES AT CROSSINGS, SIZED FOR LOAD AT EACH CROSSING
      - UNDER 32,000 LBS: REFER TO FIGURE 3
      - 32,000 - 100,000 LBS: REFER TO FIGURE 4
      - 3,500 PSF FOR CRANES: REFER TO FIGURE 5 AND FIGURE 6
    - BRIDGE PLATING SHALL REMAIN UNCOVERED TO FACILITATE INSPECTION. DO NOT COVER BRIDGE PLATING, INCLUDING WITH GRAVEL.
- WORK NOTIFICATIONS
  - WORK NOTIFICATION (WN) POLICY APPLIES TO FIBER TRENCH AT ACTIVE DATA CENTERS.
- UPON INSTALLATION OF OUTSIDE PLANT FIBER OPTIC CABLE, WORK NOTIFICATION (WN) POLICY APPLIES TO FIBER TRENCH AT A CONSTRUCTION SITE.
- CONSTRUCTION OPERATIONS, NON-EXCAVATION
  - FOR WORK THAT OCCURS WITHIN 5 FT OF FIBER TRENCH BUT THAT DOES NOT INCLUDE EXCAVATION (CURB PLACEMENT, PAVING, AERIAL LIFTS, CRANES, PICKUP TRUCKS ETC.):
    - SUBMIT WORK NOTIFICATION,
      - NOT REQUIRED WHERE FIBER NOT YET INSTALLED IN TRENCH WITHIN AREA AFFECTED BY WORK
    - ENSURE FIBER TRENCH LID INSTALLED ON FIBER TRENCH WITHIN 20 FEET OF AREA AFFECTED BY WORK
- EXCAVATION OPERATIONS
  - FOR WORK THAT OCCURS WITHIN 10 FT OF FIBER TRENCH OR UNDER TRENCH AND INCLUDES EXCAVATION:
    - SUBMIT WORK NOTIFICATION,
      - NOT REQUIRED WHERE FIBER NOT YET INSTALLED IN TRENCH WITHIN AREA AFFECTED BY WORK
    - COMPLY WITH WORK NOTIFICATION PROCESS PER DCPMG EXCAVATION GUIDELINES.
    - DOCUMENT STATUS OF EACH TRENCH CROSSING CONTINUALLY THROUGHOUT CONSTRUCTION VIA CONTRACTOR-GENERATED TRENCH CROSSING SITE DIAGRAM (SAMPLE IN SHOWN IN FIGURE 2)
      - UPDATE WEEKLY OR MORE OFTEN AS REQUIRED BY SITE CONDITIONS, SUCH THAT DIAGRAM IS CURRENT WITH ACTUAL CONDITIONS ON SITE
- MOVEMENT OF PLATE-STYLE FIBER TRENCH BOX (FTB) LIDS
  - DURING CONSTRUCTION, MOVEMENT OF PLATE-STYLE PLATE FTB LIDS SHALL ONLY BE PERFORMED BY CONTRACTOR OR DESIGNATED SUBCONTRACTOR PERFORMING TRENCH TROUGH WORK UNDER DIRECT OVERSIGHT OF FAITH TECHNOLOGIES.

EXAMPLE INSTALLATION PHOTOS





NOTES:
1. TOP OF TELECOM CONDUIT TO MATCH TOP CROWN OF PROCESS WATER

1 / - TELECOM TYPICAL SECTION THROUGH ROADWAY
NTS

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7500 TELECOM DETAILS 10/8/2025 10:48 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

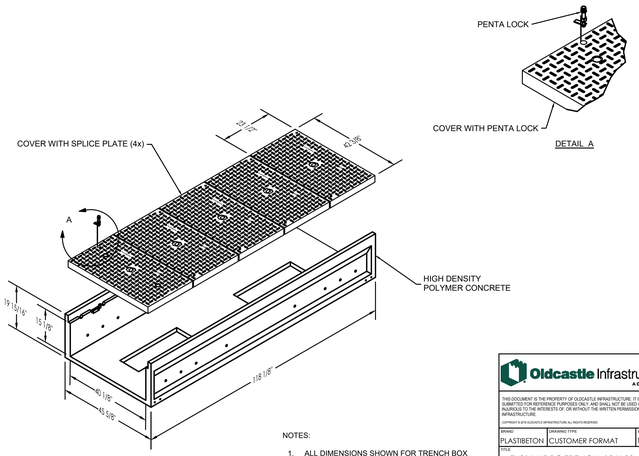
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434535

TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7500
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



PRODUCT MEETS THE OLDCASTLE POLYMER CONCRETE SPECIFICATIONS

NOTES:

1. ALL DIMENSIONS SHOWN FOR TRENCH BOX ARE APPROXIMATE. THE CONTRACTOR SHALL REFER TO SPECIFICATION 33 81 26 FOR PRODUCT DIMENSIONS.

Oldcastle Infrastructure
A CRH COMPANY

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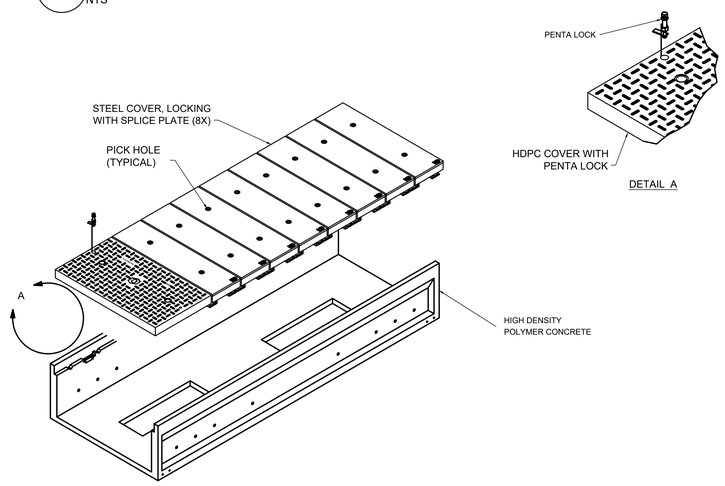
BRAND	DRAWING TYPE	WEIGHT
PLASTIBETON	CUSTOMER FORMAT	1593 lb.

TITLE: T4016 HDPC TRENCH, 10 X 30 CABLE EXIT,PENTA LOCK

SIZE	SCALE	SHEET	REV	DWG NO	REV
A	1 / 24	1 OF 1	N/R	0032507	X0

1 - NON-ROAD CROSSING TRENCH DUCT WITH COMPOSITE, LOCKING COVER

NTS

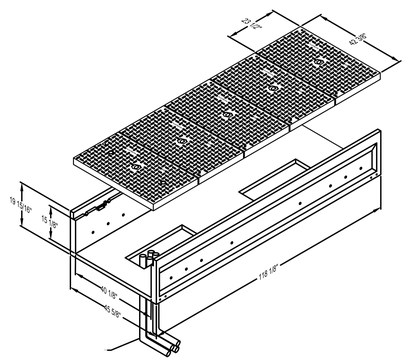


NOTES:

1. ALL DIMENSIONS SHOWN FOR TRENCH BOX ARE APPROXIMATE. THE CONTRACTOR SHALL REFER TO SPECIFICATION 33 81 26 FOR PRODUCT DIMENSIONS.

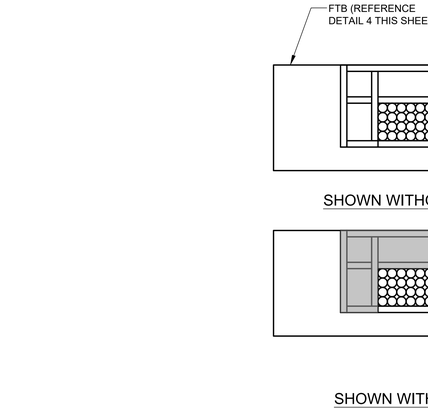
2 - ROAD CROSSING TRENCH DUCT WITH STEEL, LOCKING COVER (TRAFFIC RATED)

NTS



3 - FIBER TRENCH DUCT ADDING CONDUITS FROM UNDER SIDE

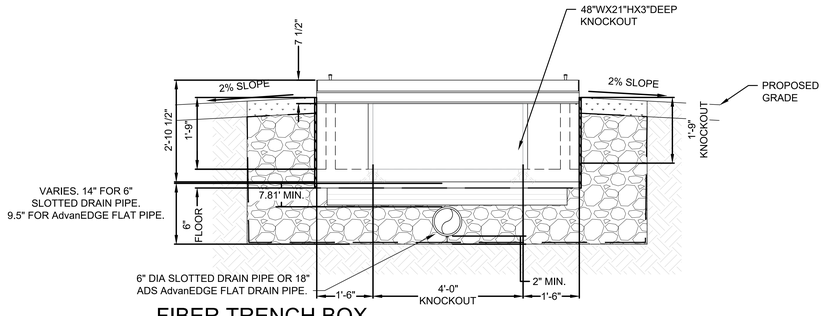
NTS



DUCTBANK TO FIBER TRENCH BOX TRANSITION SECTION

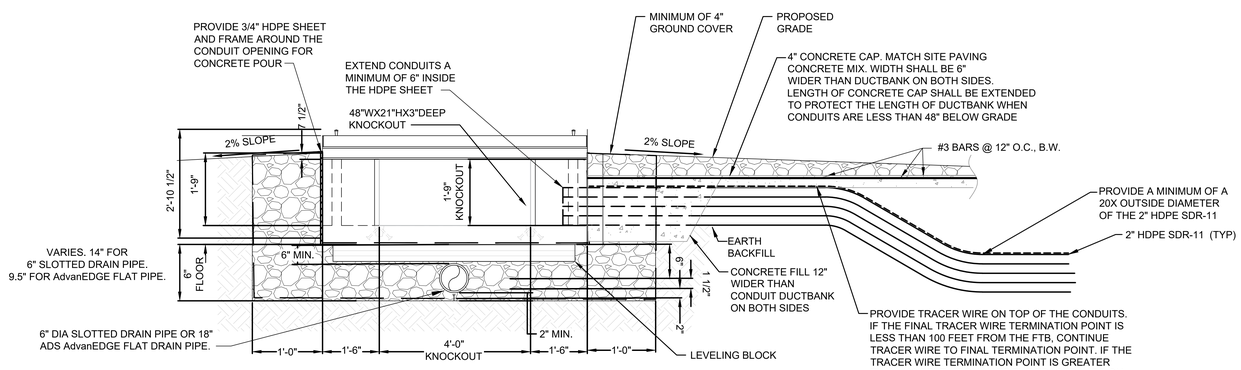
4 - DUCTBANK TO FIBER TRENCH BOX TRANSITON SECTION

NTS



5 - FIBER TRENCH BOX TYPICAL CROSS SECTION IN LANDSCAPING

NTS



NOTES:

1. POSITION THE FDB BOX SO THAT THE DUCTBANK ENTERS THE SHORT SIDE (6') OF THE FTB (IF POSSIBLE).
2. SECURED ADS AdvanEDGE FLAT PIPE WITH 60 PENNY PINS OR DUCT TAPE AS REQUIRED.
3. SEE DETAIL 8 - SHEET 2A-C-7502 FOR AdvanEDGE SUBDRAIN OUTLET DETAIL.

6 - FIBER TRENCH BOX TYPICAL CROSS SECTION GRAVEL SURROUNDING FTB (CONDUIT ENTERING FTB)

NTS

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TELECOM DETAILS

SCALE: AS SHOWN

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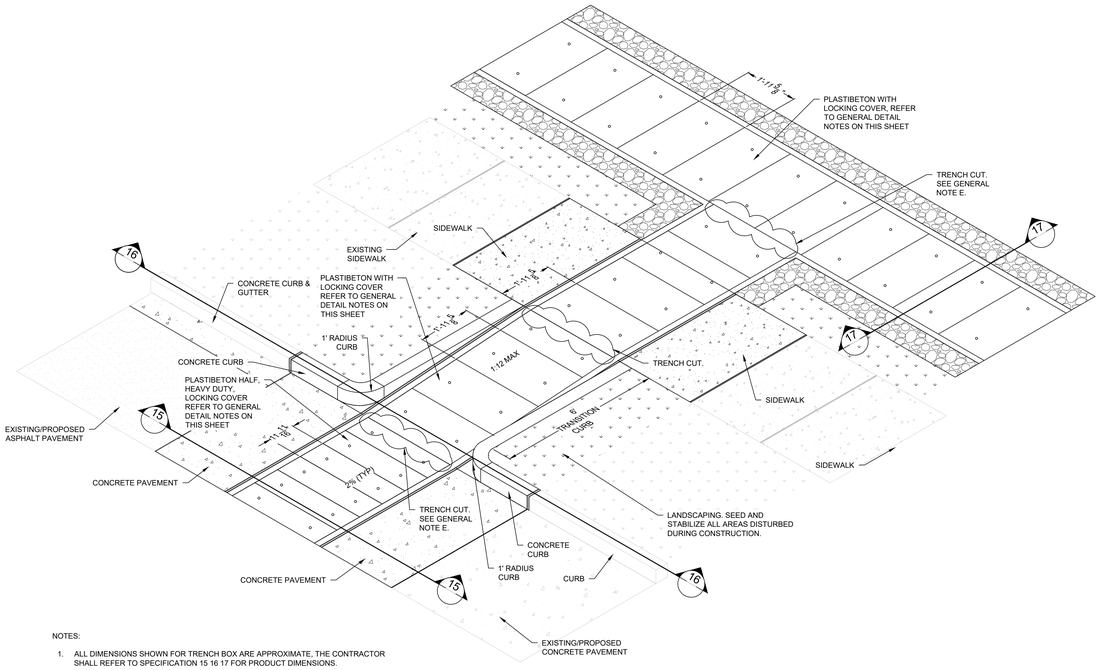
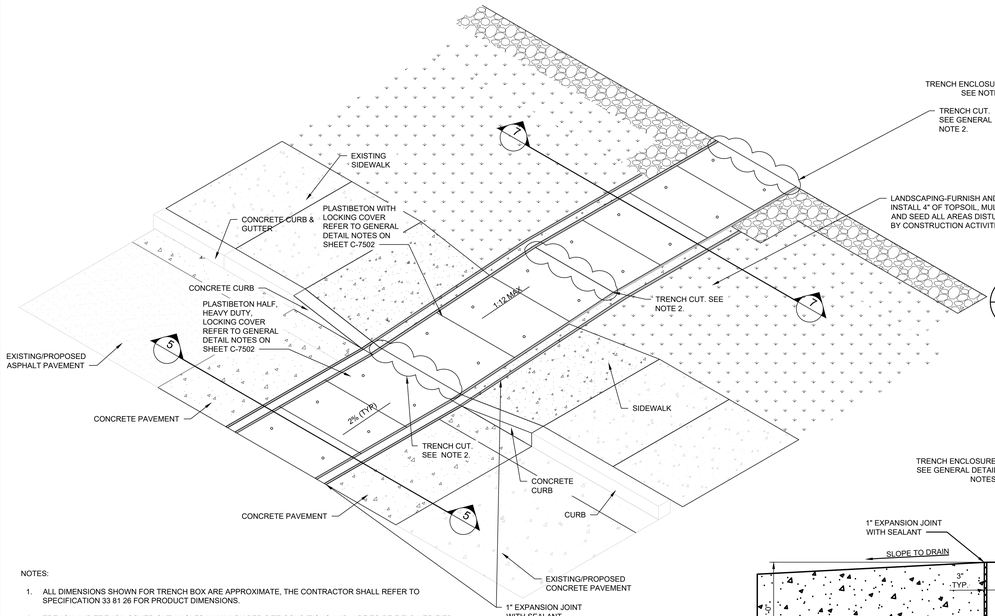
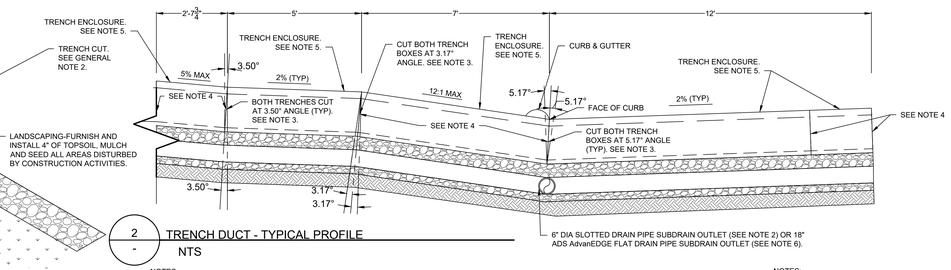

PLASTIBETON WITH LOCKING COVER, REFER TO GENERAL DETAIL NOTES ON THIS SHEET
TRENCH CUT, SEE GENERAL NOTE E.
SIDEWALK
EXISTING SIDEWALK
CONCRETE CURB & GUTTER
PLASTIBETON WITH LOCKING COVER REFER TO GENERAL DETAIL NOTES ON THIS SHEET
1" RADIUS CURB
CONCRETE CURB
PLASTIBETON HALF, HEAVY DUTY, LOCKING COVER REFER TO GENERAL DETAIL NOTES ON THIS SHEET
EXISTING/PROPOSED ASPHALT PAVEMENT
CONCRETE PAVEMENT
1:1 SLOPE
1:1 SLOPE
1:1 SLOPE



NOTES:

1. ALL DIMENSIONS SHOWN FOR TRENCH BOX ARE APPROXIMATE, THE CONTRACTOR SHALL REFER TO SPECIFICATION 33 81 26 FOR PRODUCT DIMENSIONS.
2. TRENCH AND TRENCH COVER CUT ANGLES MAY VARY PER SITE CONDITIONS AND ARE TO BE FIELD VERIFIED AND CUT ON SITE.
3. IF EXISTING PAVEMENT JOINT LAYOUT REQUIRES PAVEMENT REMOVAL WIDER THAN THE TRENCH BOX, DOWEL THE NEW PAVEMENT PANELS INTO THE EXISTING PAVEMENT TO PREVENT DIFFERENTIAL MOVEMENT OF THE NEW PAVEMENT.

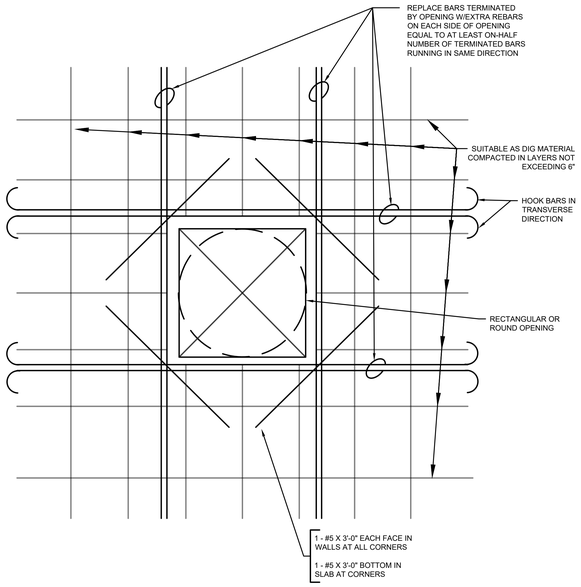
1 - CAST IN PLACE TELECOMMUNICATIONS TRENCH THROUGH ROAD, LANDSCAPING, SIDEWALK TO TRENCH DUCT
NTS



2 - TRENCH DUCT - TYPICAL PROFILE
NTS

NOTES:

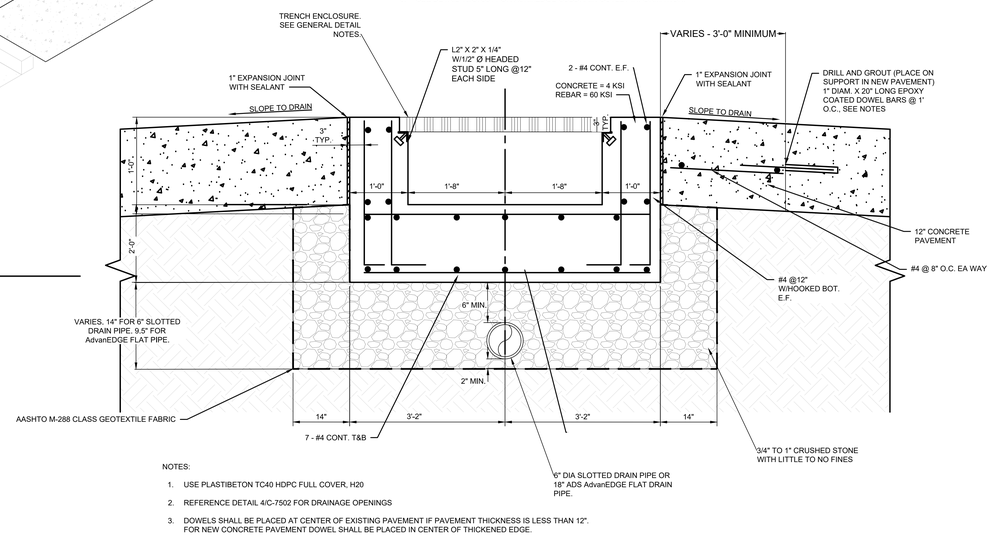
1. REFER TO GENERAL DETAIL NOTES.
2. SEE NOTES 2-4 OF DETAIL 8/C7501 FOR SLOTTED DRAIN PIPE SUBDRAIN OUTLET INFORMATION.
3. TRENCH CUT ANGLES MAY VARY PER SITE CONDITIONS AND ARE TO BE FIELD VERIFIED AND CUT ON SITE.
4. INSTALL ATTACHMENT PLATE AT EACH JOINT.
5. HEAVY-DUTY TRENCH, REFER TO GENERAL DETAIL NOTES.
6. SEE DETAIL 10/C7501 FOR AdvanEDGE SUBDRAIN OUTLET INFORMATION.



NOTES:

1. THE EXTRA REBAR SHALL EXTEND PAST THE OPENING A DISTANCE OF TWICE THE LAP LENGTH OR TO THE END OF THE BAR, WHICHEVER IS LESS IN LONGITUDINAL DIRECTION.
2. OPENINGS SHALL NOT BE PLACED CLOSER THAN 1 OPENING DIAMETER OR WIDTH TO ANY BEAM NOR SPACED CLOSER THAN TWO OPENING DIAMETERS OR WIDTHS. WHEN TWO ADJACENT OPENINGS ARE OF A DIFFERENT SIZE, SPACING SHALL BE BASED UPON THE LARGER SIZE. WHEN TOTAL WIDTH OF ADJACENT OPENINGS REQUIRED IS LARGER THAN 30" OR WHEN REQUIRED SPACING OF OPENINGS CAN NOT BE MET, COMBINED AREA SHALL BE TREATED AS ONE OPENING AND SUBMITTED FOR REVIEW PRIOR TO INSTALLATION.
3. LOCATED EVERY 10' FEET.

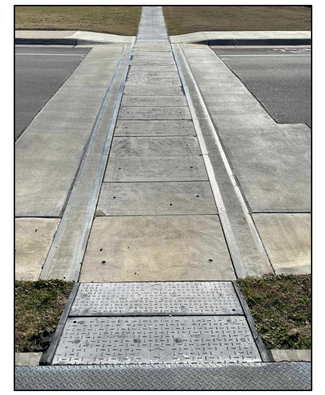
3 - CAST IN TYPICAL REINF @ OPENINGS FOR DRAINAGE OF TELECOMMUNICATIONS TRENCH
NTS



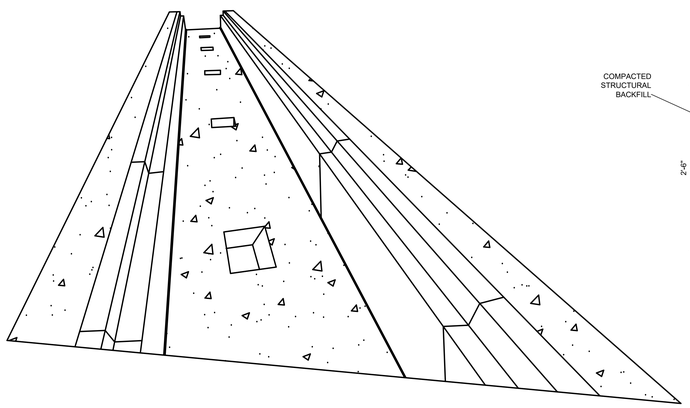
NOTES:

1. USE PLASTIBETON TC40 HDPC FULL COVER, H20
2. REFERENCE DETAIL 4/C-7502 FOR DRAINAGE OPENINGS
3. DOWELS SHALL BE PLACED AT CENTER OF EXISTING PAVEMENT IF PAVEMENT THICKNESS IS LESS THAN 12", FOR NEW CONCRETE PAVEMENT DOWEL SHALL BE PLACED IN CENTER OF THICKENED EDGE.
4. THICKENED EDGE SHALL BE PLACED WHEN NEW CONCRETE PAVEMENT ABUTS TRENCH PAVEMENT.

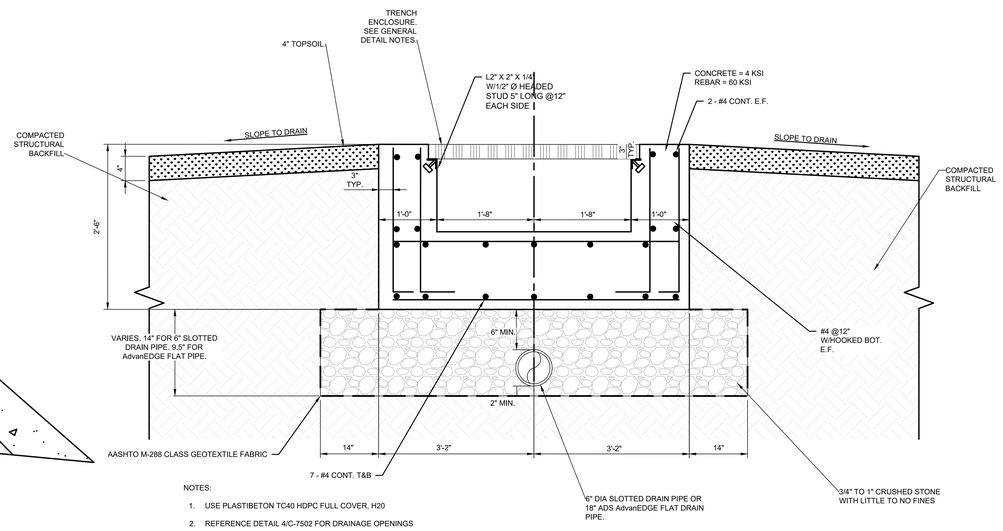
4 - CAST IN PLACE TELECOMMUNICATIONS TRENCH DESIGN THROUGH ROAD
NTS



5 - TELECOMMUNICATIONS CAST IN PLACE THROUGH ROAD TRANSITION THRU CURB AND SIDEWALK AND CONNECTION TO PRE-FABRICATED TELECOMMUNICATIONS TRENCH DUCT AT THE BACK OF CURB
NTS



6 - ISOMETRIC CAST-IN-PLACE TELECOMMUNICATIONS TRENCH DUCT THROUGH ROAD
NTS



NOTES:

1. USE PLASTIBETON TC40 HDPC FULL COVER, H20
2. REFERENCE DETAIL 4/C-7502 FOR DRAINAGE OPENINGS

7 - CAST IN PLACE TELECOMMUNICATIONS TRENCH DESIGN OUTSIDE OF PAVEMENT
NTS



8 - CAST-IN-PLACE TELECOMMUNICATIONS TRENCH DUCT THROUGH ROAD
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER DEVIN RANDALL GREEN OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT. 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER: 1A-C-7503
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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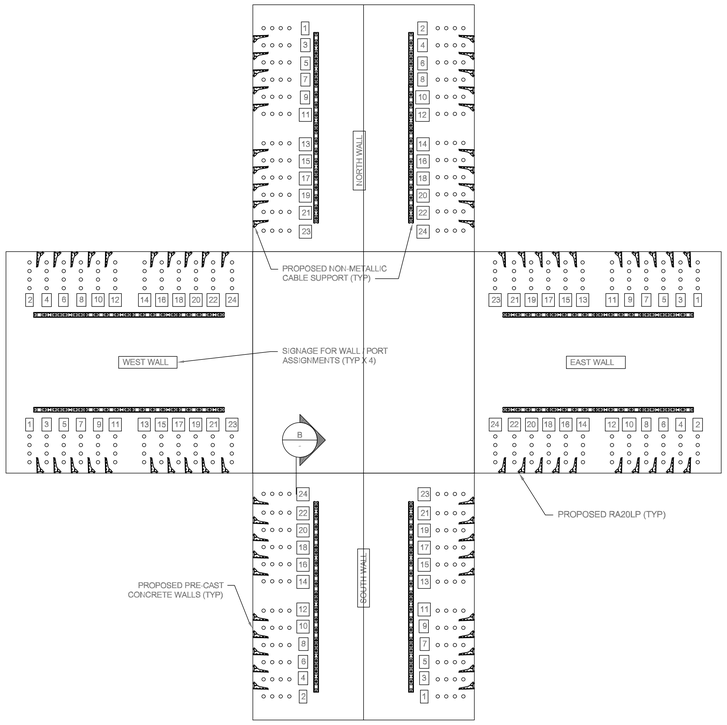
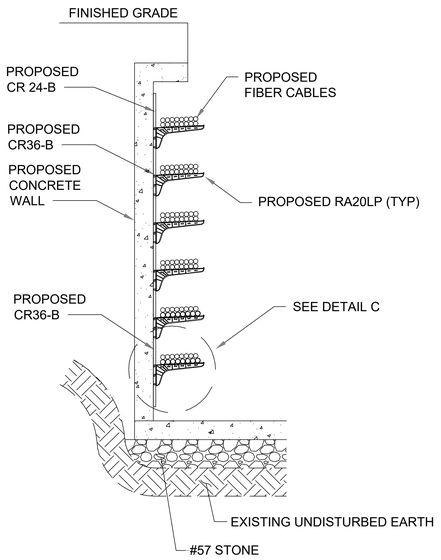
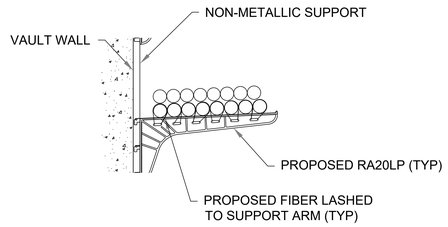


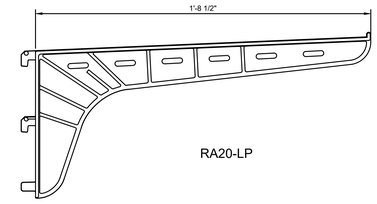
1 - CV-5 EXAMPLE DETAILS & DUCT ASSIGNMENTS
NTS

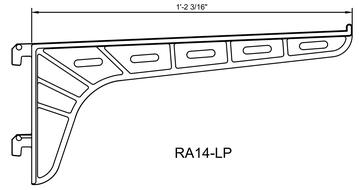


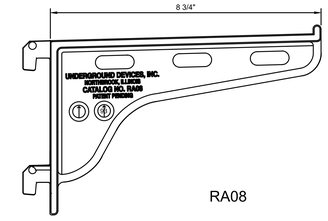
2 - INTERIOR ELEVATION OF CABLE VAULT WALL
NTS



3 - CABLE ON SLACK MANAGER
NTS







6 - CV-1 & CV-2 TYPICAL SLACK MANAGEMENT
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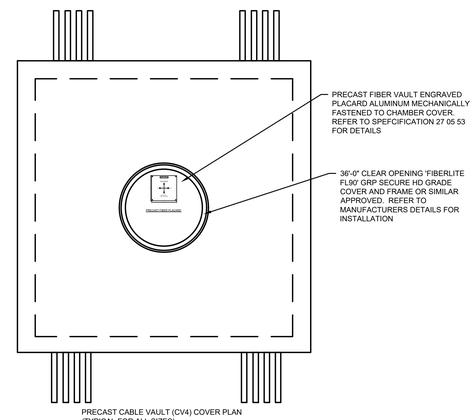
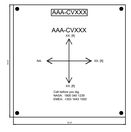


5 - PRECAST CABLE VAULT (CV4) COVER PLAN (TYP)
NTS

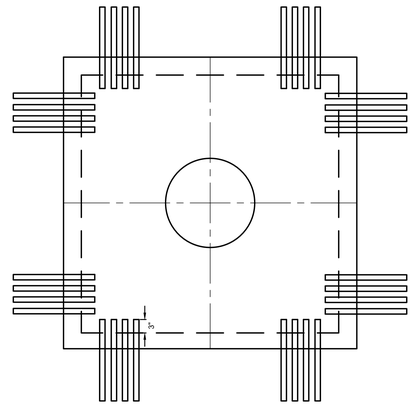


PRECAST FIBER PLACARD

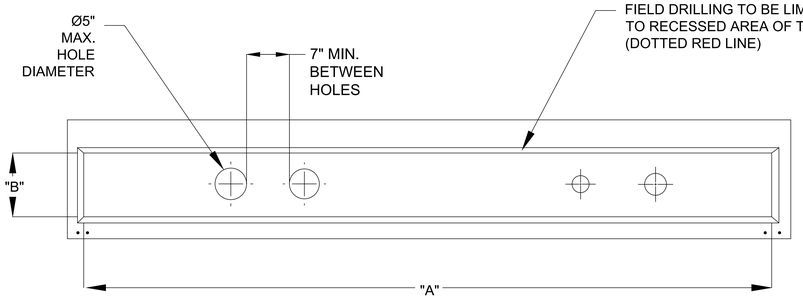
CABLE VAULT MANHOLE COVER LABEL

1. TOP FIELD IS CALLE VAULT LABEL
2. ADJACENT TO ARROW, LIST CONNECTING CABLE VAULT AND APPROXIMATE DISTANCE TO VAULT IN FEET(METERS)
3. PLACARD SHALL BE ORIENTED SO CONNECTING VAULTS ARE ALIGNED
4. WHEN THERE ARE NO CABLE VAULTS CONNECTING ON A SIDE, USE LABEL N/A.

8 - PRECAST FIBER PLACARD
NTS



9 - UNDERGROUND DUCT ENTERING CABLE VAULT (TYP)
NTS



4 - FIBER TRENCH DUCT - ADDING CONDUIT PENETRATIONS
NTS

MODEL	A	B
68	112 3/8"	4 3/8"
128	111 1/2"	2 3/16"
1216	112"	10 1/4"
2012	110 7/8"	5 1/16"
2016	111 3/4"	9 1/4"
3012	110 7/8"	5 9/16"
3016	111 3/4"	10 5/16"
4016	111 3/4"	8 1/8"

WATER TIGHT SEAL

MINIMUM VAULT SIZES PER CONDUIT QUANTITIES

CHAMBER REFERENCE	NUMBER OF CONDUITS PER VAULT SIDE	MINIMUM INTERNAL VAULT SIZE	MINIMUM VAULT WALL THICKNESS	MINIMUM COVER SLAB THICKNESS	MINIMUM INTERNAL VAULT DEPTH	CABLE MANAGEMENT DEVICE REFERENCE
CV1	8	5' x 5' (1524mm x 1524mm)	6" (203mm)	12" (305mm)	7' (2133mm)	RA08
CV2	16	5' x 5' (1524mm x 1524mm)	6" (203mm)	12" (305mm)	7' (2133mm)	RA08
CV3	24	5' x 5' (1524mm x 1524mm)	6" (203mm)	12" (305mm)	7' (2133mm)	RA08
CV4	48	8' x 8' (2438mm x 2438mm)	6" (203mm)	12" (305mm)	8' (2,438mm)	RA14LP
CV5	72 / 96	10' x 10' (3048mm x 3048mm)	10" (254mm)	10" (254mm)	14' (4,267mm)	RA20LP
CV6	120	12' x 12' (3,657mm x 3,657mm)	10" (254mm)	10" (254mm)	8' (2,438mm)	RA20LP

*ALL VAULT SIZES ARE SUBJECT TO LOCAL PRECAST CONCRETE MANUFACTURERS DESIGNS, HOWEVER THE FIGURES SHOWN IN THE TABLE ARE THE MINIMUM DIMENSIONS THAT MUST BE ACHIEVED.

7 - TYPICAL VAULT SIZES
NTS

THE SIDEWALL AREA SHOULD NOT BE REDUCED MORE THAN 100 SQ.IN.

OLDCASTLE ENGINEERING SHOULD BE CONSULTED FOR FIELD MODIFICATIONS THAT DO NOT CONFORM WITH THIS DOCUMENT.

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7500 TELECOM DETAILS 10/8/2025 10:48 AM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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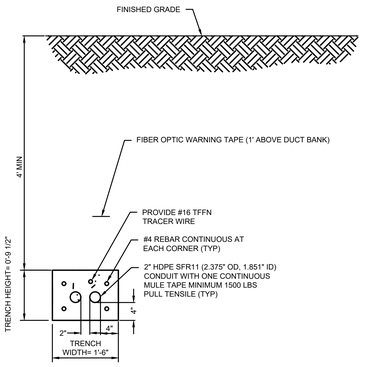
DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

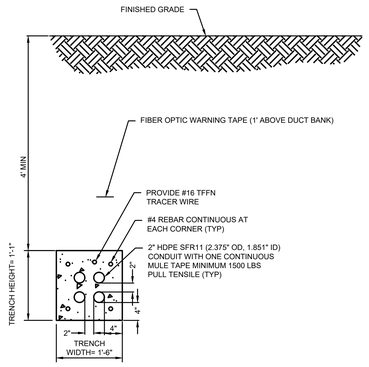
TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7504
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



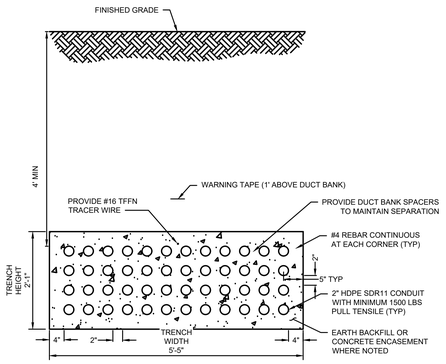
NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

2 CONDUIT DUCTBANK

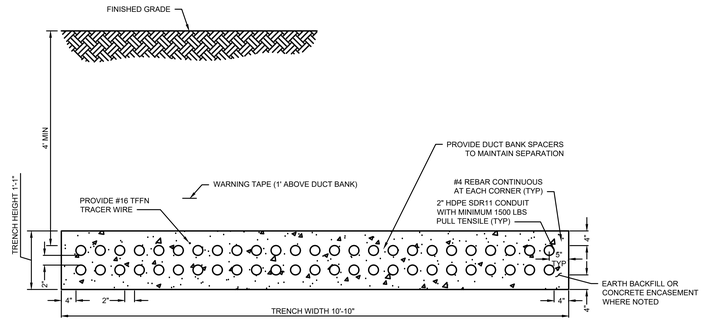


NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

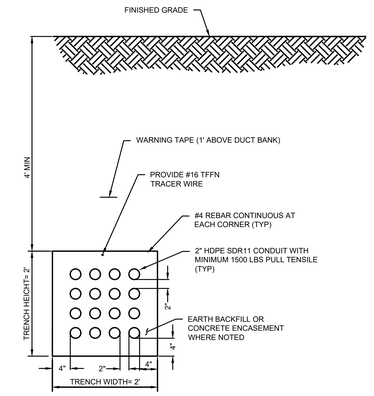
4 CONDUIT DUCTBANK



48 CONDUIT DUCTBANK

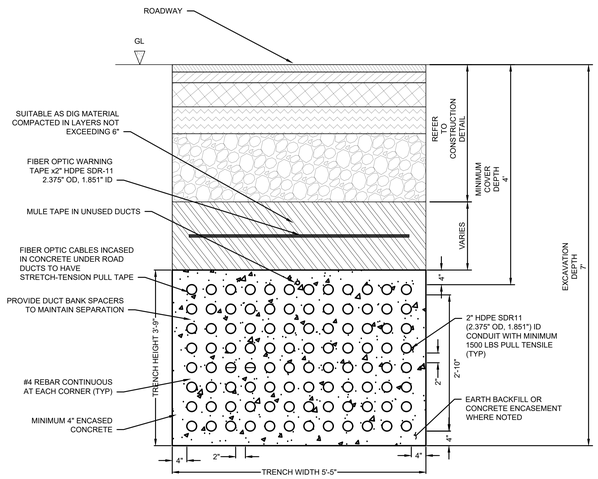


48 CONDUIT DUCTBANK

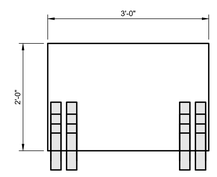


NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

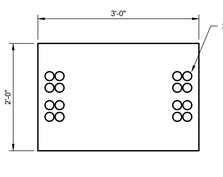
16 CONDUIT DUCTBANK



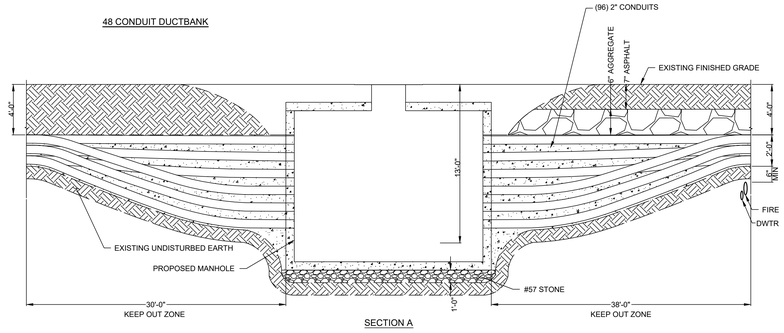
INDICATIVE SECTION THROUGH FIBER OPTIC CABLE TRENCH UNDER ROAD



HAND HOLE ELEVATION VIEW



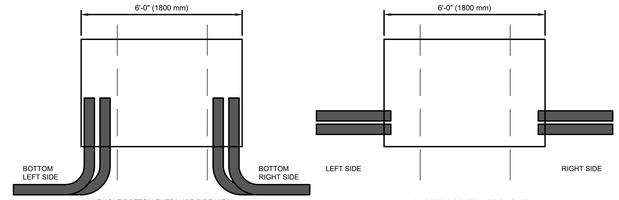
HAND HOLE PLAN VIEW

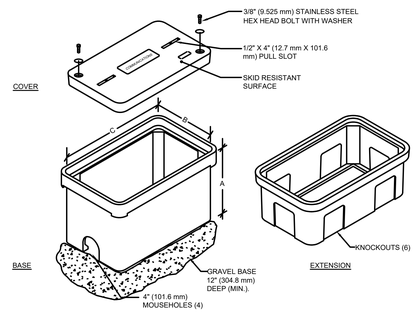


SECTION A

2 TYPICAL HANDHOLE WITH 8 X 2" HDPE SDR-11 CONDUITS ENTERING AND EXITING
NTS

4 CABLE VAULT "KEEP OUT ZONE"
NTS

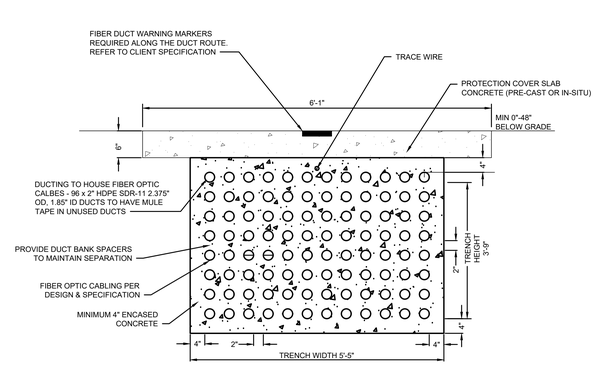




MINIMUM HANDHOLE SIZES PER CONDUIT QUANTITIES

NUMBER OF DUCT ENTRIES PER SIDE	DUCT ENTRY ARRANGEMENT	MINIMUM INTERNAL DIMENSIONS PP* / PRECAST SQUARE (mm)	MINIMUM INTERNAL DIMENSIONS PP* / PRECAST RECTANGULAR (MM)	INSIDE / OUTSIDE MAX CABLE BENDING RADIUS (mm)	TYPICAL CHAMBER DEPTH EXCLUDING BASE (mm)	TYPICAL DEEPER CHAMBER DEPTH EXCLUDING BASE (mm)
1	○	2' x 2' (600mm x 600mm)	2' X 3' (600MM X 900MM)	5"/15" (125mm/375mm)	36" (900mm)	56" (1400mm)
2	○○	3' x 3' (900mm x 900mm)	3' X 4' (900MM X 1200MM)	9"/25" (225mm/625mm)	36" (900mm)	56" (1400mm)
4 (GROUP)	○○ ○○	3' x 3' (900mm x 900mm)	3' X 4' (900MM X 1200MM)	9"/25" (225mm/625mm)	36" (900mm)	56"' (1400mm)
4 (GROUP)	○○ ○○	4' x 4' (1200mm x 1200mm)	4' X 5' (1200MM X 1500MM)	8"/44" (195mm/1095mm)	50" (1250mm)	69" (1750mm)
4 (INLINE)	○○○○	5' X 5' (1500MM X 1500MM)	5' X 6' (1500MM X 1800MM)	7"/45" (180mm/1150mm)	36" (900mm)	56" (1400mm)
6	○○○ ○○○	4' X 4' (1200MM X 1200MM)	4' X 5' (1200MM X 1500MM)	8"/44" (195mm/1095mm)	50" (1250mm)	69" (1750mm)
8	○○○○ ○○○○	5' x 5' (1500mm x 1500mm)	5' X 6' (1500MM X 1800MM)	7"/45" (180mm/1150mm)	50" (1250mm)	69" (1750mm)
*NOTE 1: PP CHAMBER SIZING BASED ON "STAKKABOX MODULA" CHAMBERS WITH D400 GRADE DUCTILE "AX-S" COVERS FROM CUBIS SYSTEMS						
*NOTE 2: PP CHAMBERS ONLY TO BE USED WHEN 6' (2M) AWAY FROM CARRIAGEWAYS AND WHERE GROUNDWATER IS >3' (1.0M) BELOW BASE OF CHAMBER						

NOTES:
1. STANDARD HANDHOLE AND COVER COLOR SHALL BE AS SPECIFIED BY ARCHITECT.
2. PROVIDE 1" x 4" (25.4 mm x 101.6 mm) BELL PULL SLOT FOR EACH HANDHOLE.
3. PROVIDE HANDHOLES BY QUAZITE OR APPROVED EQUAL.
4. COVER, RING AND BOX SHALL BE MADE OF SAME MATERIAL.
5. PROVIDE IMPRINTED LOGO TO MATCH.
6. PROVIDE DIVIDER.



NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

8 CONDUIT DUCTBANK

SECTION THROUGH SHALLOW BURY DETAIL (BETWEEN 0" AND 48" BELOW GRADE)

REQUIRED APPROVAL AND INVOLVEMENT WITH CLIENT FOR THESE LOCATIONS

1 DUCT BANK DETAILS
NTS

3 HANDHOLE DETAIL
NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7505
PAPER SIZE: E (36"x48")
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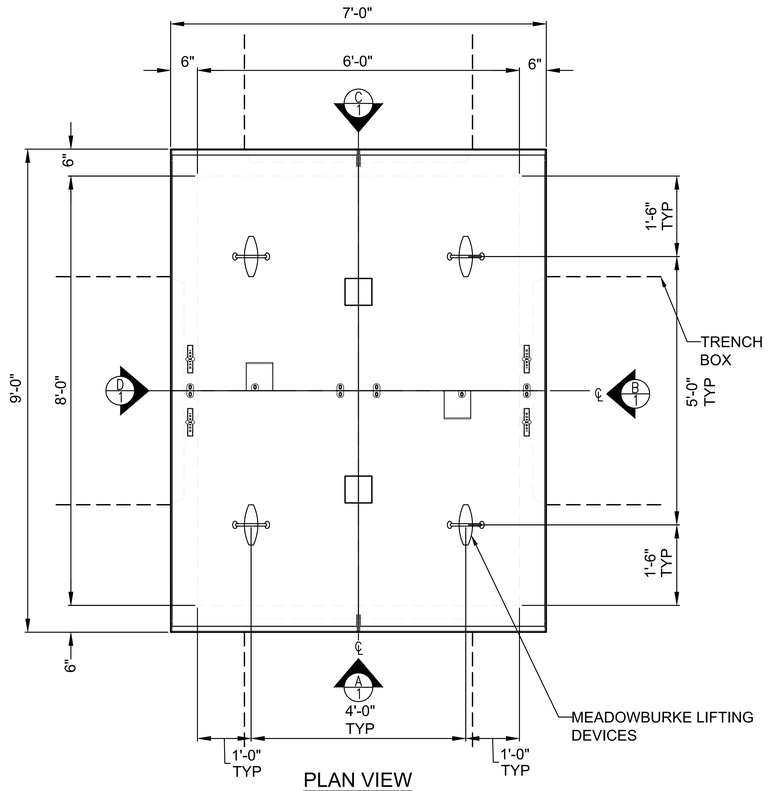
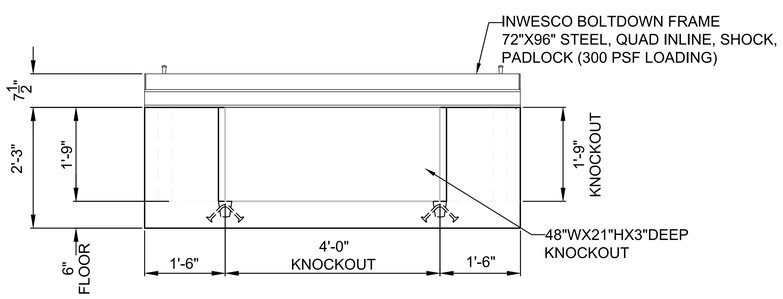


PLAN VIEW
[BOLTDOWN FRAME SHOWN]
SCALE: NTS



VIEW A
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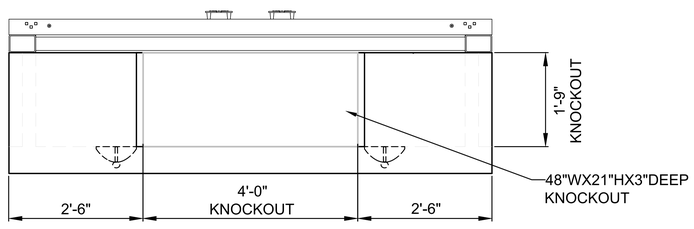
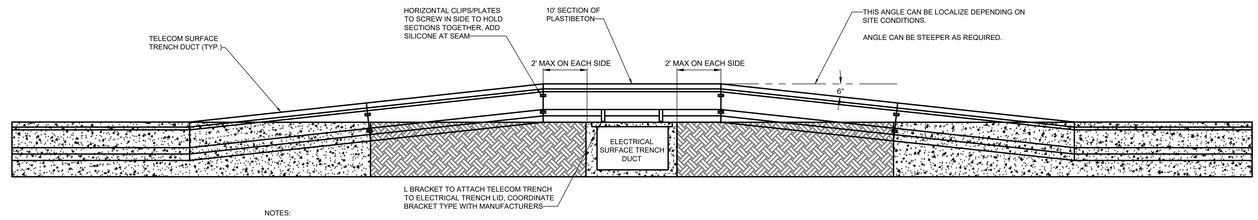
SCALE: NTS



VIEW B
(VIEW D IS MIRROR IMAGE)
SCALE: NTS

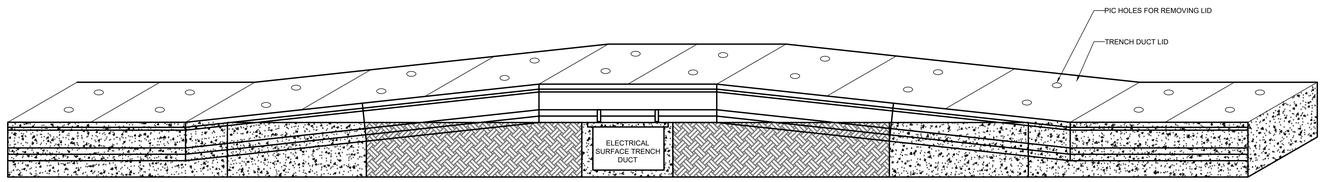
1 - 6'X8' FIBER TRENCH BOX
NTS



NOTES:

1. DETAIL DEPICTS A SINGLE CROSSING BUT CAN APPLY TO MULTIPLE CROSSINGS.
2. ELECTRICAL TRENCH IS SOMETIMES DOUBLE WIDE.

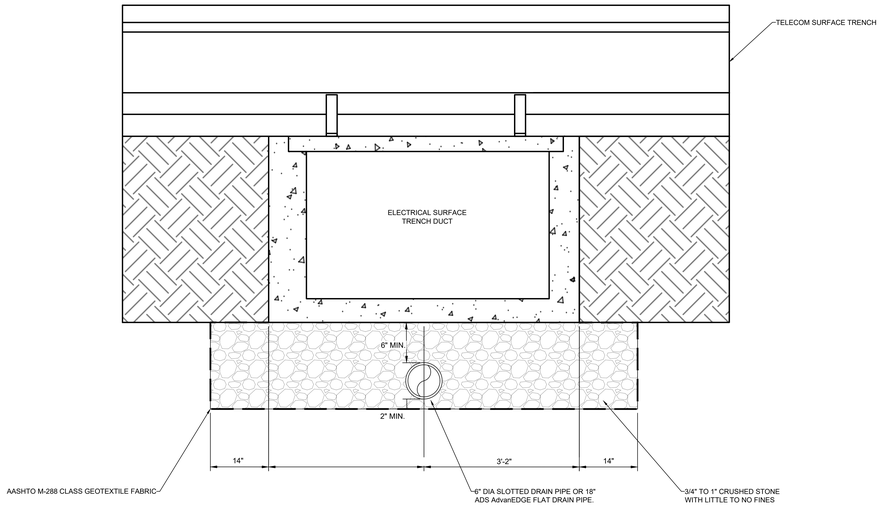
2 - TELECOM SURFACE TRENCH DUCT OVER ELECTRICAL TRENCH DUCT
NTS



NOTES:

1. DETAIL DEPICTS A SINGLE CROSSING BUT CAN APPLY TO MULTIPLE CROSSINGS.
2. ELECTRICAL TRENCH IS SOMETIMES DOUBLE WIDE.

3 - TELECOM SURFACE TRENCH DUCT OVER ELECTRICAL TRENCH DUCT
NTS



NOTES:

1. USE PLASTIBETON TC40 HDPC FULL COVER, H20.
2. REFERENCE DETAIL 3 - SHEET 2A-C-7503 FOR DRAINAGE OPENING.
3. SHOW "L" BRACKET FOR SECURING TO SURFACE.
4. TALK WITH PLASTIBETON FOR DETAILS.

4 - TRENCH DUCT - TYPICAL PROFILE PERPENDICULAR TO CROSSING
NTS

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7500 TELECOM DETAILS 10/8/2025 10:48 AM

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(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

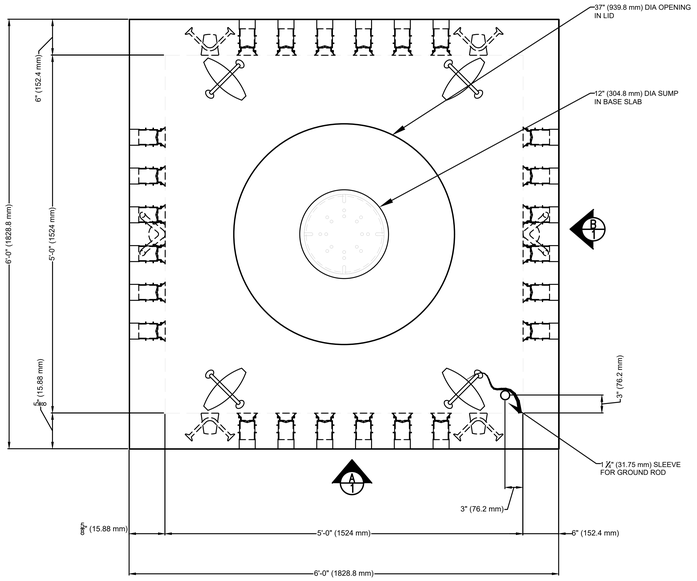
REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

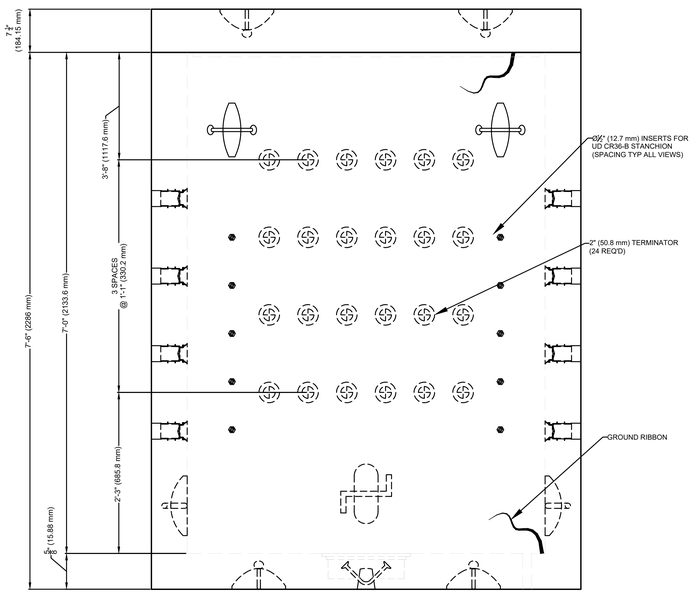
TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7506
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



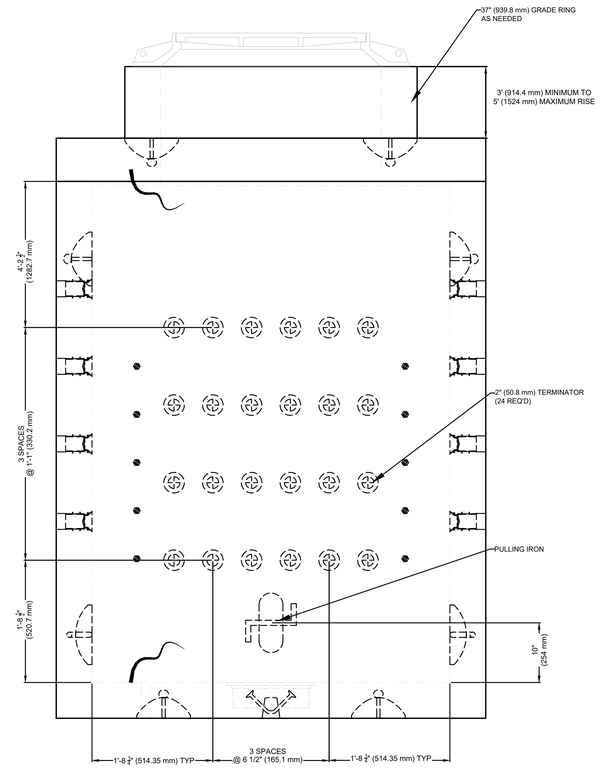
PLAN VIEW

SCALE: NTS



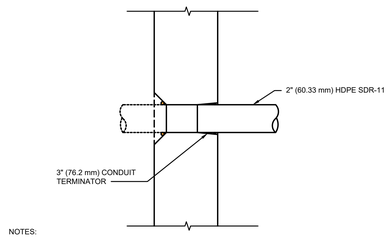
VIEWS A & C

SCALE: NTS



VIEWS B & D

SCALE: NTS



NOTES:

1. TERMINATOR SUPPLIED IN WALL OF CABLE VAULT.
2. 2" HDPE SDR-11 CONDUIT SHALL PASS THROUGH TERMINATOR AND EXTENDED INTO CABLE VAULT 6".
3. WATERTIGHT SEAL ANNULAR SPACE AROUND CONDUIT.

3 / C-7507 CABLE VAULT TERMINATOR DETAIL

NTS

1 / - CV-3 CABLE VAULT (5' X 5' X 7') (8 / 16 / 24 X 2" WALL PENETRATIONS EACH WALL)

NTS

WEIGHT TABLE		
	LBS	CY.
LID	2900	0.72
BASE SECTION	14300	3.53
TOTAL	17200	4.2469

Oldcastle Infrastructure™ A CRH COMPANY

747 ALLERIDGE POINT, LEXINGTON, KY 40510
PHONE: 859-259-1484 FAX: 859-233-8351

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5x5x7 CV3 CV

SUBMITTAL

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CUSTOMER

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DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
12/15/22	##	##	###	##	######

DRAWING NUMBER	REVISION	SHEET
120-5x5x7 BS-CV3	#### REV DATE ####	OF #

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1437 S BOULDER AVE.
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LICENSED PROFESSIONAL ENGINEER — DEAN RANDALL — OKLAHOMA — 04/09/2026

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REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7507

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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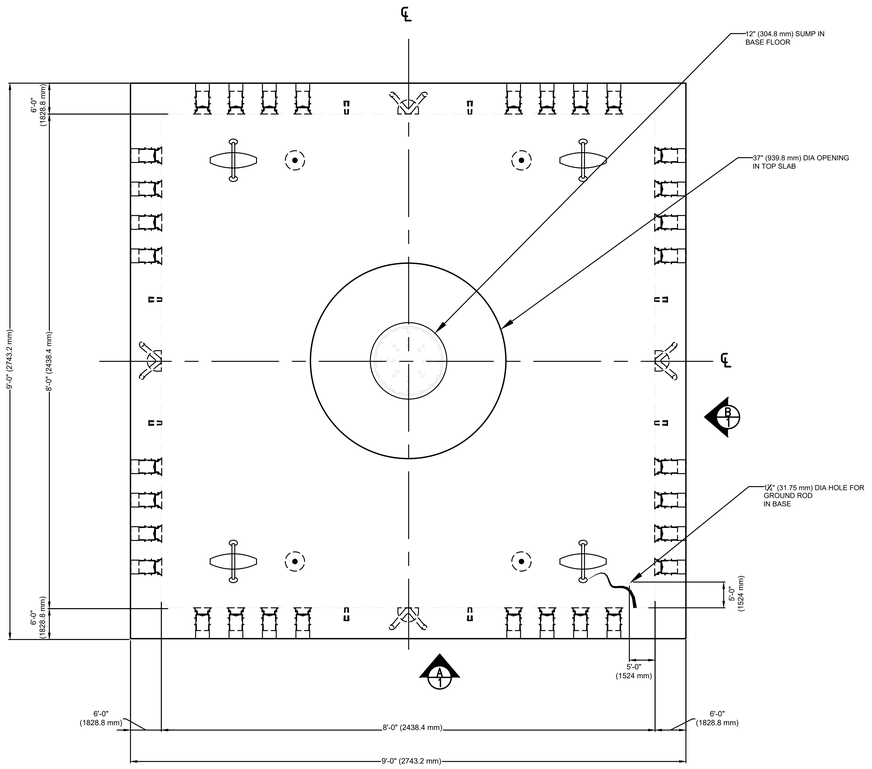
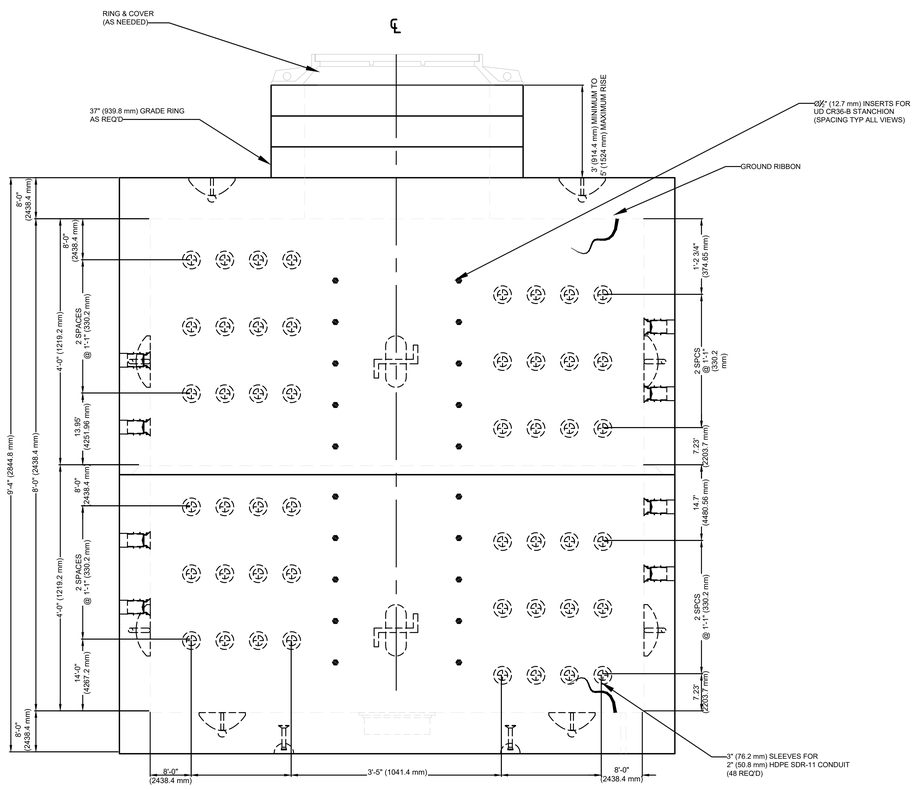


PLAN VIEW

SCALE: NTS



3 SPCS @ 6 1/2" (165.1 mm)

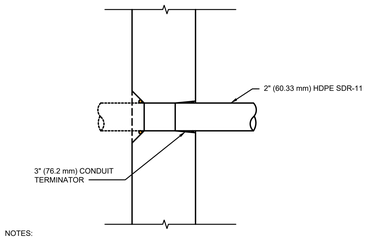
3 SPCS @ 6 1/2" (165.1 mm)

VIEWS B & D

SCALE: NTS

VIEWS A & C

SCALE: NTS



NOTES:

1. TERMINATOR SUPPLIED IN WALL OF CABLE VAULT.
2. 2" HDPE SDR-11 CONDUIT SHALL PASS THROUGH TERMINATOR AND EXTENDED INTO CABLE VAULT 6".
3. WATERTIGHT SEAL ANNULAR SPACE AROUND CONDUIT.

3 / C-7507 CABLE VAULT TERMINATOR DETAIL

NTS

1 / - CV-4 CABLE VAULT (8' X 8' X 8') (48X2" WALL PENETRATIONS EACH WALL)

NTS

WEIGHT TABLE		
	LBS	CY.
TOP SECTION	17600	4.35
BASE SECTION	18300	4.52
TOTAL	35900	8.8642

Oldcastle Infrastructure™ A CRH COMPANY

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PHONE: 859-259-1484 FAX: 859-233-9351

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8x8x8 CS CV4

SUBMITTAL PAGE 1

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DATE	SALES	DRAWN	ENGINEER	CHECKED	SALES ORDER
1/29/22	##	##	###	##	######

DRAWING NUMBER: 120-88x96 CS-CV3 | REVISION: #### REV. DATE: #### | SHEET: OF #

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA — 04/09/2026

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

TELECOM DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7508

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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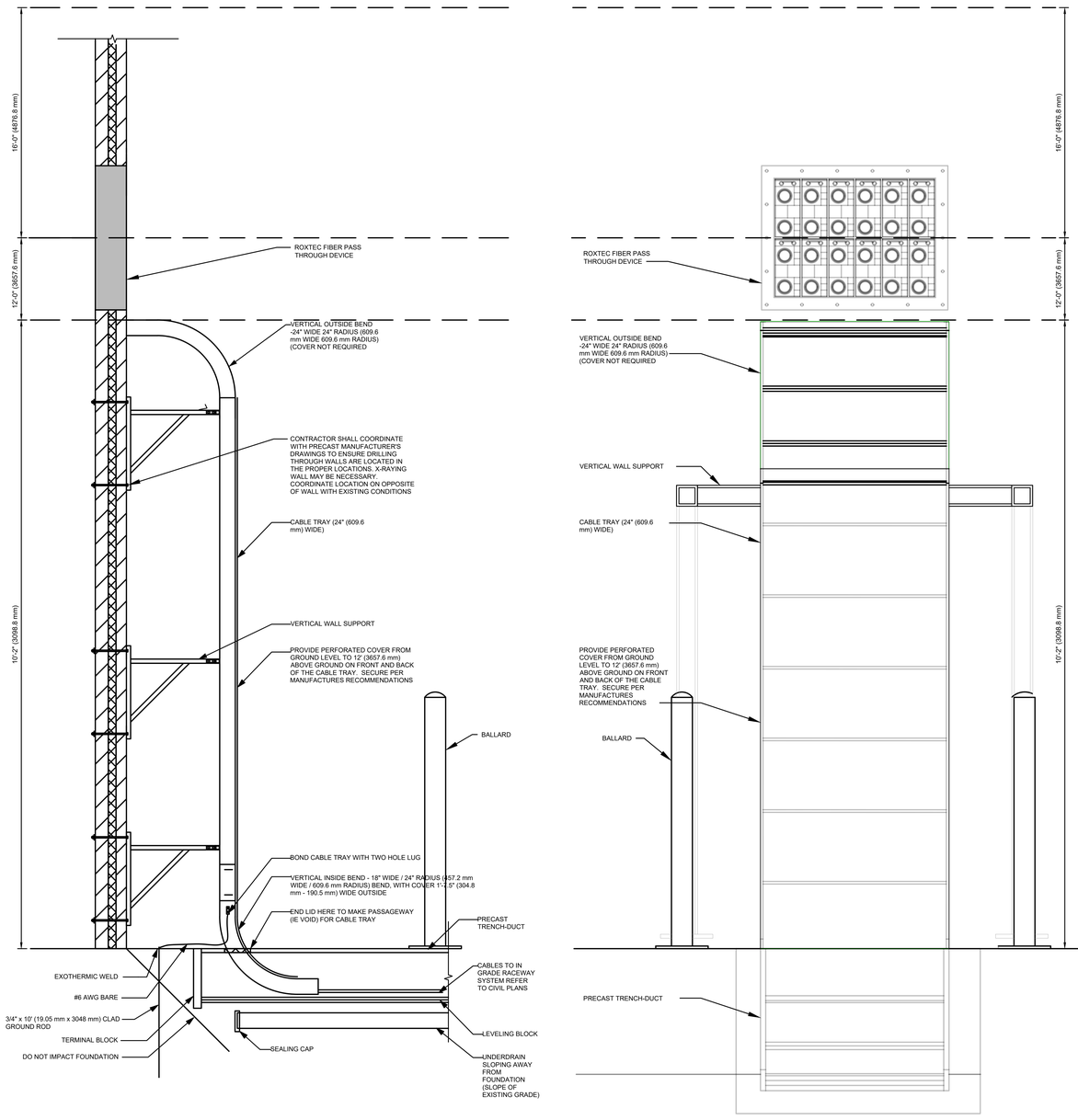

1 - POE ENTRANCE - TRENCH
NTS

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LICENSED PROFESSIONAL ENGINEER — DEVIN GRANT RANDALL — OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434535

TELECOM DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7509
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

GENERAL DESIGN NOTES:

CABLE VAULT NOTES:

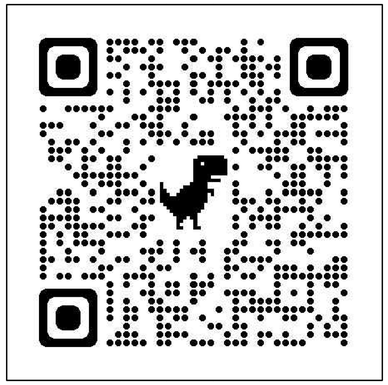
1. STRENGTH DESIGN METHOD IN ACCORDANCE WITH (I.A.W.) ACI 318.
2. APPLICABLE DESIGN CODES (CURRENT EDITIONS):
   A. ACI 318 BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (MAIN DESIGN SPECIFICATION).
   B. ASTM C857 STANDARD PRACTICE FOR MINIMUM STRUCTURAL DESIGN LOADING FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES (LOADING SPECIFICATIONS).
   C. ASTM C858 STANDARD SPECIFICATION FOR UNDERGROUND PRECAST CONCRETE UTILITY STRUCTURES (PRODUCT SPECIFICATION).
3. PRECAST RATED FOR 300 PSF UNIFORM LIVE LOAD (PEDESTRIAN RATED).
4. DESIGN FILL RANGE: 0' (AT GRADE).
5. GROUND WATER TABLE FOR STRUCTURAL CALCULATIONS IS BASED UPON GROUND WATER TABLE AT 5.0' BELOW GRADE. IF DESIGN (OR ACTUAL) WATER TABLE IS LESS THAN ASSUMED,REVIEWING ENGINEER/AUTHORITY SHALL NOTIFY OLDCASTLE, INC. UPON REVIEW OF THIS SUBMITTAL.
6. LATERAL DESIGN PRESSURES (AS APPLICABLE TO DESIGN, SEE CALCULATIONS):
   A. EQUIV DRY SOIL FLUID PRESSURE = 47 PCF.
   B. EQUIV SATURATED SOIL FLUID PRESSURE = 85 PCF.
   C. LIVE LOAD SURCHARGE PRESSURE = 80 PSF.
   D. HYDROSTATIC WATER PRESSURE = 62.4 PCF.
7. DESIGN CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS = 5,000 PSI (MIN).
8. REINFORCEMENT:
   A. CARBON-STEEL DEFORMED BARS: ASTM A615, FY = 60KSI (MIN).
9. JOINT SEALANT (AS DETAILED AND NOTED IN DRAWINGS HEREIN):
   B. CS-102 CONSEAL BUTYL RUBBER SEALANT (OR EQUIV.) I.A.W. ASTM C990 FED, SPEC. SS-S-210.
10. PRECAST DESIGN DOES NOT INCLUDE ANY LATERAL OR SURCHARGE LOADS FROM OTHER BUILDINGS OR FOUNDATIONS ADJACENT TO THIS STRUCTURE. THIS STRUCTURE SHALL BE KEPT A MINIMUM OF 1:1 RATIO AWAY FROM OTHER FOOTINGS OR FOUNDATIONS.
11. TELECOM DETAILS INCLUDE REFERENCE TO SPEC STATION 33 81 26.

TRENCH DUCT NOTES

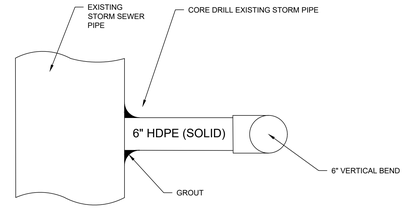
1. OLD CASTLE PLASTIBETON IS THE BASIS OF DESIGN. SEE DETAILS ON SHEET 2A-C-7202. ALTERNATE MANUFACTURERS CAN BE CONSIDERED VIA SUBSTITUTION REQUEST AND SHALL BE REVIEWED BY OWNER'S TELECOM AS&E.
2. KEYS OR LOCKING TOOL SHALL BE STORED IN THE KEYBOX LOCATED IN THE DC.
3. TRENCH DUCT AND TRENCH COVER CUT ANGLES MAY VARY PER SITE CONDITIONS AND ARE TO BE FIELD VERIFIED AND CUT ON SITE.
4. STANDARD CROSSING HEAVY-DUTY TRENCH WITH NON-SKID & LOCKING COVER, REFER TO SPECIFICATION 15 16 17 FOR ADDITIONAL INFORMATION. SEE DETAILS SHEET 2A-C-7202
5. ROAD CROSSING-HEAVY DUTY TRENCH WITH LOCKING STEEL COVER(TRAFFIC RATED) WITH SPLICE PLATE. SEE DETAIL SHEET 2A-C-7202.
6. SET LEVELING BLOCKS EVERY 9'-10" AND AT EVERY JOINT FOR SMALLER SEGMENTS. PROVIDE MINIMUM OF 4" LEVELING BLOCK SUPPORT FOR EACH CHANNEL SECTION.
7. THE TOP OF THE LEVELING BLOCK IS FLUSH WITH THE TOP OF STONE.
8. PLACE GEOTEXTILE FABRIC AT JOINTS, PLACED OVER THE LEVELING BLOCKS UP TO TOP OF AGGREGATE BASE ON BOTH SIDES.
9. NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT.
10. IF ROADWAY PAVEMENT CUTTING AND PATCHING IS REQUIRED, REFER TO LOCAL CODE.
11. TO THE MAXIMUM EXTENT POSSIBLE THE GROUND ADJACENT TO THE TRENCH SHALL BE SLOPED AWAY TO PREVENT SURFACE DRAINAGE INTO TRENCH.
12. DIMENSIONS FOR TRENCH DUCT ARE APPROXIMATE. FOR TRENCH DETAILS REFER TO DIVISION 15 16 17 FOR EXACT PRODUCT DIMENSIONS. (TYPICAL FOR ALL DETAILS)

DUCTBANK NOTES:

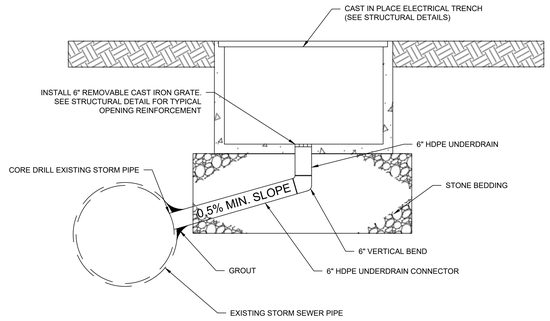
1. DUCTS SHALL BE 2.5" OD (2" ID) HIGH DENSITY POLYETHYLENE (HDPE) SDR 11 WITH EXTERNAL SMOOTH FINISH, INTERNAL LONGITUDINAL RIBS. COLOR TO BE COMPLIANT WITH LOCAL UTILITY CODE REQUIREMENTS, OR ORANGE IF NOT SPECIFIED.
2. DUCTS SHALL HAVE A MINIMUM PULL TENSILE STRENGTH OF 1500 POUNDS.
3. NON-DETECTABLE UNDERGROUND WARNING TAPE MINIMUM 3" WIDE PLASTIC TAPE, COLORED ORANGE, WITH SUITABLE WARNING LENGTH IN ENGLISH AND NATIVE LANGUAGE DESCRIBING BURIED FIBER-OPTIC CABLES SHALL BE PLACED ALONG THE TRENCHES ENTIRE LENGTH. TAPE CONSISTS OF A MINIMUM 4.0 MIL OVERALL THICKNESS, WITH A TENSILE STRENGTH OF 19 MPA.
4. TRACER WIRE SHALL BE 16 AWG (0.62") INSULATED SOLID COPPER TRACER WIRE, RATED FOR DIRECT BURIAL.
5. THE TRACER WIRER TERMINAL BLOCK SHALL BE RATED FOR CORROSIVE ENVIRONMENTS, SIZED TO ACCOMMODATE THE MAXIMUM NUMBER OF TRACER WIRES PER VAULT.
6. THE CONTRACTOR SHALL VERIFY EXISTING UNDERGROUND UTILITIES PRIOR TO COMMENCING WORK. VERIFY THAT FIELD MEASUREMENTS ARE AS INDICATED. PREVENT DAMAGE TO EXISTING FACILITIES. THE SURVEY RESULTS SHALL BE INCORPORATED INTO IFC REDLINE SET.
7. THE CONTRACTOR SHALL CONFIRM ROUTING AND TERMINATION LOCATIONS OF CONDUIT BANKS PRIOR TO EXCAVATION FOR ROUGH-IN.
8. THE CONTRACTOR SHALL CONFIRM LOCATIONS OF MANHOLES PRIOR TO EXCAVATING FOR INSTALLATION.
9. AREAS AFFECTED BY THE WORK MUST BE RESTORED TO THEIR ORIGINAL CONDITION AT THE END OF CONSTRUCTION.
10. THE DUCTS SHALL HAVE A MINIMUM SLOPE OF 4" PER 83' (0.33 PERCENT).
11. THE CONTRACTOR SHALL SLOPE DUCTS AWAY FROM BUILDING ENTRANCES.
12. THE DUCTS SHALL BE INSTALLED IN SINGLE, UNINTERRUPTED RUNS, WITHOUT THE USE OF FITTINGS OR CONNECTIONS BETWEEN CABLE VAULTS.
13. THE CONTRACTOR SHALL PROVIDE SUITABLE FITTINGS TO ACCOMMODATE EXPANSION AND DEFLECTION WHERE REQUIRED AT THE CABLE VAULT.
14. THE CONTRACTOR SHALL TERMINATE CONDUIT AT MANHOLE ENTRIES USING APPROPRIATE ROXTEC SEALS, AND EXTEND 0.33" PAST THE INSIDE WALL OF THE CABLE VAULT TO ALLOW ATTACHMENT OF COUPLINGS.
15. CONDUITS SHALL BE BANDED TOGETHER BEFORE BACKFILLING.
16. BACKFILL SHALL BE SELECTED EXCAVATED MATERIAL THAT IS FREE OF DEBRIS AND COBBLES GREATER THAN 0.51" IN DIAMETER.
17. CONDUITS SHALL BE CLEANED AND CAPPED. THE CONTRACTOR SHALL USE SUITABLE CAPS TO PROTECT INSTALLED DUCT AGAINST ENTRANCE OF DIRT MOISTURE.
18. CONDUITS SHALL HAVE A 600LB POUNDS STRETCH-TENSION MULE TAPE. THE MULE TAPE SHALL BE TIED TO ITS DUCT COVER/PLUG TO KEEP IT FROM BEING PULLED BACK INTO THE DUCT.
19. CONDUIT SHALL BE TESTED USING A MANDREL-BLOWING PROCESS AFTER TRENCHES HAVE BEEN BACKFILLED OR AFTER A DIRECTIONAL BORE.
20. TRACER WIRE SHALL BE INSTALLED ON THE OUTSIDE OF THE UNDERGROUND CONDUITS. PROVIDE ONE TRACER WIRE PER FIBER ROUTE SEGMENT, INDEPENDENT OF CONDUIT COUNT, ON TOP OF AND CENTERED RELATIVE TO CONDUIT SEGMENT BUNDLE. SECURE IT WITH TAPE OR TWISTS TO CONDUIT AT 40" INTERVALS. TRACER WIRE WILL ENTER VAULT WALL, WHERE THE PENETRATION WILL BE SEALED, OR TERMINATE IN A TERMINAL POST AT OR CLOSE TO THE CABLE VAULT. PROVIDE TRACER WIRE SUPPORT UP TO TERMINAL BLOCK IN VAULT, TERMINATE TRACER WIRE ON TERMINAL BLOCK IN VAULT.
21. TERMINAL POSTS MUST BE INSTALLED CLOSE TO THE VAULT COVER RIM.
22. CONDUITS ENTERING BUILDING SHALL HAVE DUCT PLUGS AND/OR SIMPLEX PLUGS TO SEAL CONDUITS AND CABLING.
23. FIBER DUCTS SHALL HAVE 20 TIMES EXTERNAL RADIUS ON BENDS.
24. PROVIDE CONCRETE ENCASED DUCTBANK WHEN CROSSING UNDER ROADWAYS OR UNDER PARKING LOT.
25. WHEN COMING UP FROM UNDERGROUND INTO BUILDING OR CABINET, PROVIDE PVC COATED RIGID METALLIC CONDUIT LARGE RADIUS ELBOWS OR STUB UPS. HDPE CONDUITS SHALL NOT STUB UP THRU SLAB OF CONCRETE.
26. WHERE REINFORCED CONCRETE DUCTBANK IS REQUIRED, PROVIDE REBAR IN EACH CORNER AND ADD AN ADDITIONAL REBAR CENTERED IN BETWEEN EACH ADDITIONAL PAIR OF CONDUITS (TYPICAL FOR EACH OF 4 SIDES).
27. CONDUITS IN TELECOM DUCTBANKS SHALL BE SPOOLED HDPE SDR11.
28. PROVIDE 4,000 PSI CONCRETE WITHIN THREE FEET OF THE FOOTING EDGE FOR ALL DUCTBANKS THAT PASS BELOW A FOUNDATION WALL OR FOOTING.
29. MINIMUM BURIAL DEPTH FOR TELECOM CONDUIT IS 4 FEET. WHERE DUCTBANKS ARE ROUTED BENEATH A BUILDING SLAB, MINIMUM BURIAL DEPTH SHALL BE PER NEC ARTICLES 300.5 AND 300.50.
30. BOTTOM OF DUCTBANK TO BE INSTALLED AT OR BELOW FROST LINE.
31. PROVIDE MARKERS CENTERED ABOVE TELECOM DUCT BANKS AND WITH A MAXIMUM OF 300 FEET BETWEEN MARKERS ALONG ROUTE (PROVIDE ADDITIONAL MARKERS ALONG BENDS AS REQUIRED TO FOLLOW DUCT BANK PATH). MARKERS SHALL BE CLEARLY MARKED AS FIBER OPTIC. PROVIDE ONE OF THE FOLLOWING, DEPENDING ON INSTALLATION SURFACE.
   A. DIRT:
      1. RHINO TRIVIEW 400 UTILITY MARKER OR APPROVED EQUAL.
   B. CONCRETE OR ASPHALT:
      2. ACP CONCRETE GRAPHICS UTILITY MARKER OR APPROVED EQUAL
32. PROVIDE MINIMUM 600 LB TENSILE STRENGTH MULE TAPE FOR CABLE INSTALLATION TIED TO DUCT COVER / PLUG TO ENSURE TAPE DOES NOT GET PULLED BACK INTO DUCT.
33. TIE CONDUITS TIGHTLY IN A BUNDLE AND MAINTAIN THE SHAPE OF THE BUNDLE THROUGH THE ENTIRE LENGTH OF THE DUCT BANK. TRANSITION DUCT SPACERS AT TEN FEET FROM EACH MANHOLE OR SLAB PENETRATION.
34. PROVIDE DUCT BANK SPACERS ALONG ENTIRE LENGTH OF DUCT BANK AS TO PREVENT CONDUIT SAG OR MOVEMENT DURING CONCRETE PLACEMENT.
35. REFER TO CIVIL DRAWINGS FOR PAVEMENT, SURFACE, CURBING, AND SURFACE REPAIR DETAILS.
36. PROVIDE A #16 TFFN TRACER WIRE CENTERED NEAR THE TOP OF THE DUCT BANK. TERMINATE THE TRACER WIRE TO A TERMINAL POST LOCATED NEAR THE LID OF THE MANHOLE.
37. SPLICING OF HDPE SDR-11 NOT PERMITTED.



EXAMPLE INSTALLATION PHOTOS



PLAN VIEW



PROFILE VIEW

1 - ELECTRICAL TRENCH DRAINAGE DETAIL

NTS

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DEVIN RANDALL 31621 REGISTERED PROFESSIONAL ENGINEER OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT. 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF
APPRV'D: DGR

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

ELECTRIC DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7510
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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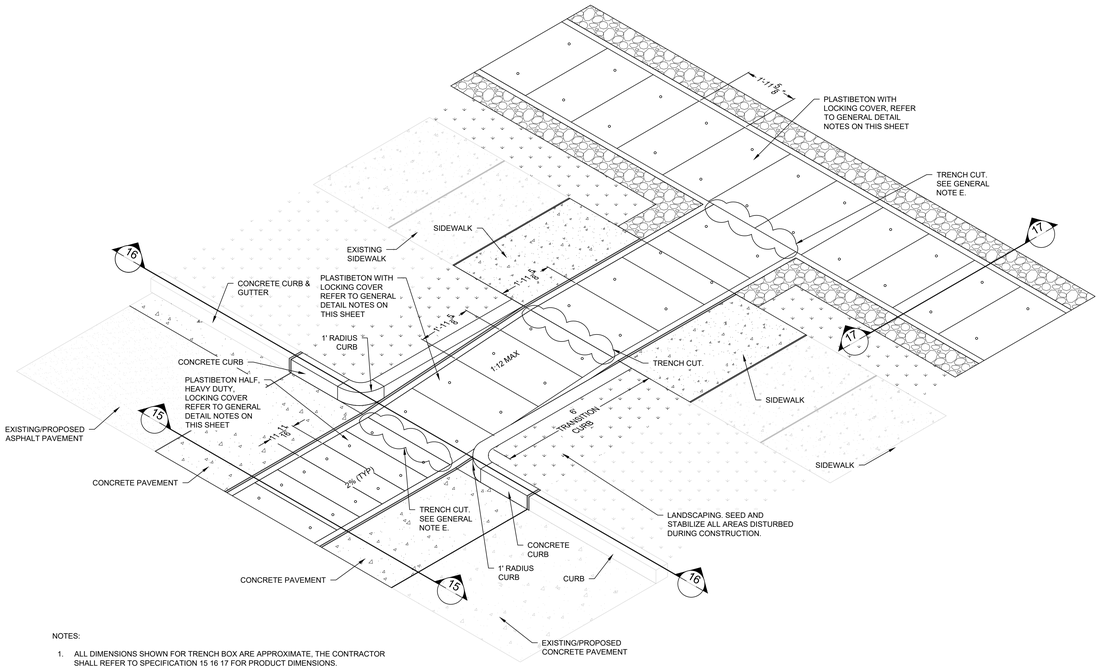
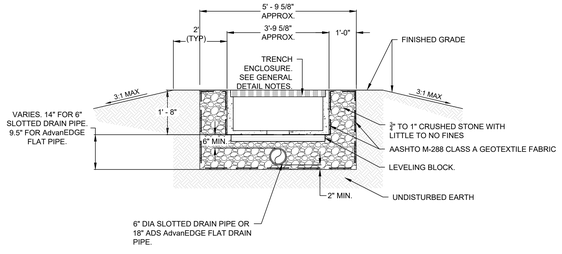


NOTES:

1. ALL DIMENSIONS SHOWN FOR TRENCH BOX ARE APPROXIMATE, THE CONTRACTOR SHALL REFER TO SPECIFICATION 15 16 17 FOR PRODUCT DIMENSIONS.

1 - TRENCH DUCT TYPICAL SECTION THROUGH ROADWAY

NTS

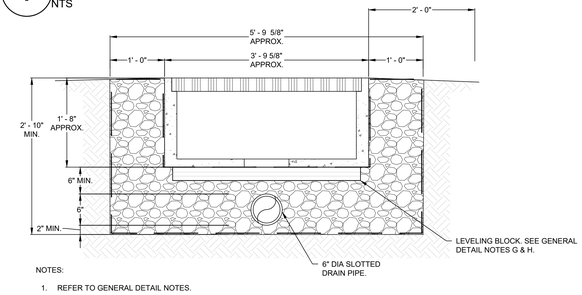


NOTES:

1. REFER TO GENERAL DETAIL NOTES.

4 - TRENCH DUCT TYPICAL SECTION THROUGH LANDSCAPING

NTS

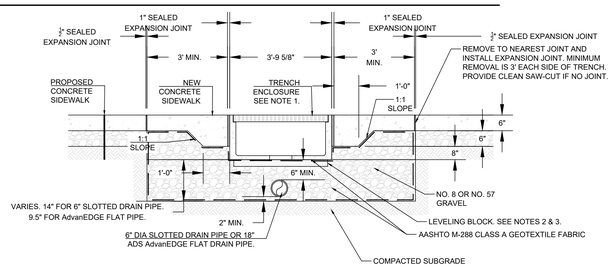


NOTES:

1. REFER TO GENERAL DETAIL NOTES.
2. INSTALL WATER TIGHT TEE AT SLOTTED DRAIN PIPE CONNECTION TO OUTFALL PIPE.
3. SUBDRAIN OUTLET PIPES SHALL BE PLACED AT ALL SUBDRAIN LOW POINTS AND AT MAXIMUM SPACING OF 150' O.C.
4. OUTLET PIPES SHALL TIE INTO SITE STORM SEWER WHENEVER POSSIBLE. IF STORM CONNECTION IS NOT POSSIBLE, PIPE SHALL BE DRAINED TO SITE BMP (SWALE, DETENTION BASIN, ETC.). DAYLIGHT PIPE SHALL BE PROTECTED VIA CONCRETE HEADWALLL OR OTHER METHOD APPROVED BY OWNER/ENGINEER.

7 - TRENCH DUCT SUBDRAINAGE - PREFERRED PRIMARY OPTION 6" DIA SLOTTED DRAIN PIPE DETAIL

NTS



NOTES:

1. PLASTIBETON 4016 TRENCH BY OLDCASTLE. T4016 TRENCH BOX AND TC40 HEAVY DUTY, NON-SKID, LOCKING COVER. SEE MANUFACTURERS SPECIFICATIONS FOR MATERIAL AND INSTALLATION REQUIREMENTS.
2. SET LEVELING BLOCKS EVERY 9'-10" AND AT EVERY JOINT.
3. THE TOP OF THE LEVELING BLOCK IS FLUSH WITH THE TOP OF STONE.
4. PLACE GEOTEXTILE FABRIC AT ALL JOINTS, PLACED OVER THE LEVELING BLOCKS UP TO GRADE ON BOTH SIDES.
5. NEW PAVEMENT FLUSH WITH EXISTING PAVEMENT

5 - TRENCH DUCT TYPICAL SECTION THROUGH SIDEWALK

NTS

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(918) 380-8868

DEAN RANDALL HALEY — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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DRAWN: JLF
APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

ELECTRIC DETAILS

SCALE: AS SHOWN

SHEET NUMBER: 1A-C-7511

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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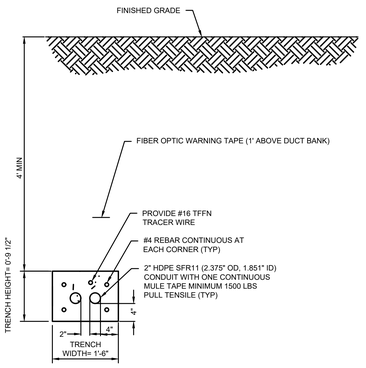
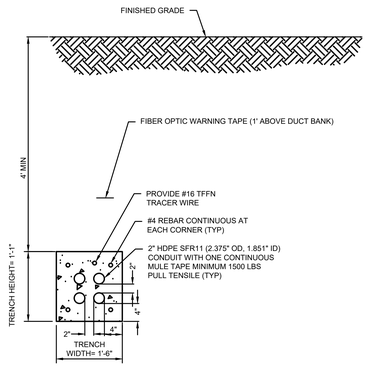


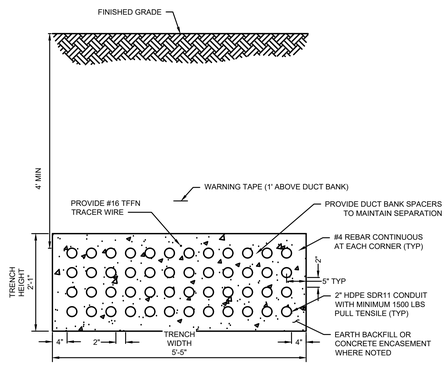
NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

2 CONDUIT DUCTBANK

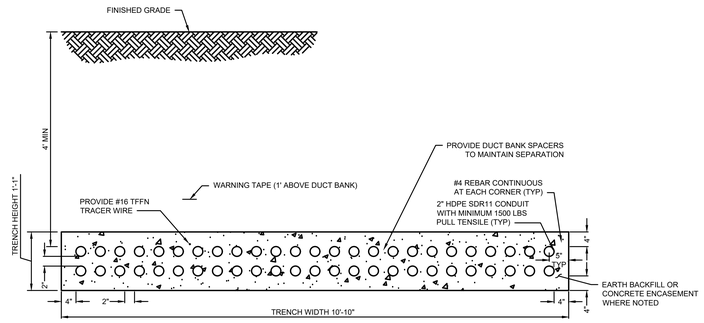


NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

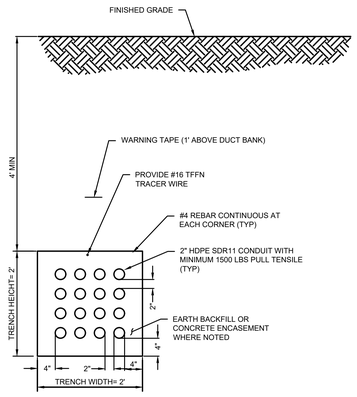
4 CONDUIT DUCTBANK



48 CONDUIT DUCTBANK



48 CONDUIT DUCTBANK



16 CONDUIT DUCTBANK

NOTE:
PROVIDE DUCT BANK SPACERS TO MAINTAIN SEPARATION.

1 / - DUCT BANK DETAILS
NTS

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HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
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CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434535

ELECTRIC DETAILS
SCALE: AS SHOWN

SHEET NUMBER:
1A-C-7512
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

ELECTRIC

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-EL-EMH-001	1A-ELEC-18 STA: 15+76.18 OFFSET: 0.00	639.24	40" INV IN (N) = 634.30 40" INV OUT (S) = 634.300	N: 467197.3518 E: 2584331.3859
1A-EL-EMH-002	1A-ELEC-19 STA: 16+10.67 OFFSET: 0.00	639.12	40" INV IN (N) = 634.12 40" INV OUT (S) = 634.084	N: 467176.1953 E: 2584325.0861
1A-EL-EMH-003	1A-ELEC-20 STA: 13+35.33 OFFSET: 0.00	631.62	22" INV IN (S) = 626.99	N: 468207.9547 E: 2584591.4762
1A-EL-EMH-004	1A-ELEC-21 STA: 13+32.70 OFFSET: 0.00	631.45	22" INV IN (S) = 626.82	N: 468206.7499 E: 2584608.4046
1A-EL-EMH-005	1A-ELEC-22 STA: 13+28.12 OFFSET: 0.00	630.41	22" INV IN (S) = 625.79	N: 468199.3017 E: 2584713.4067
1A-EL-EMH-006	1A-ELEC-23 STA: 13+25.42 OFFSET: 0.00	630.08	22" INV OUT (S) = 625.452	N: 468198.0245 E: 2584731.3550
1A-EL-EMH-007	1A-ELEC-24 STA: 13+58.74 OFFSET: 0.00	629.98	22" INV OUT (SE) = 624.881	N: 468196.7265 E: 2584749.5930
1A-EL-EMH-008	1A-ELEC-25 STA: 13+61.27 OFFSET: 0.00	629.89	22" INV OUT (SE) = 624.380	N: 468195.2362 E: 2584770.5324
1A-EL-EMH-009	1A-ELEC-26 STA: 13+74.68 OFFSET: 0.00	629.55	22" INV IN (SE) = 623.95	N: 468192.0868 E: 2584815.0674
1A-EL-EMH-010	1A-ELEC-27 STA: 13+72.86 OFFSET: 0.00	629.60	22" INV OUT (SE) = 624.979	N: 468190.4142 E: 2584839.9855

TELECOM

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
00001	1A-TELE-01 STA: 32+80.61 OFFSET: 0.00 R	638.51	40" INV IN (N) = 637.11 40" INV OUT (S) = 637.109	N: 467694.6338 E: 2585232.9233
1A-TC-CV-040	1A-TELE-11 STA: 16+52.94 OFFSET: 0.00	637.90	25" INV IN (W) = 629.90 25" INV OUT (E) = 629.896	N: 467725.9681 E: 2584950.7935
1A-TC-CV-0105	1A-TELE-03 STA: 13+04.05 OFFSET: 0.00	619.92	15" INV IN (E) = 613.56 24" INV IN (W) = 613.95	N: 467942.2022 E: 2586644.9255
1A-TC-CV-0110	1A-TELE-03 STA: 21+05.86 OFFSET: 0.00	613.16	24" INV OUT (E) = 606.976 15" INV OUT (NW) = 606.584	N: 467925.6834 E: 2585843.2822
1A-TC-CV-0305	1A-TELE-04 STA: 28+11.37 OFFSET: 0.00	692.27	15" INV IN (E) = 684.17 15" INV OUT (W) = 684.077	N: 469144.6994 E: 2582361.3518
1A-TC-CV-0310	1A-TELE-04 STA: 21+16.82 OFFSET: 0.00	674.64	15" INV IN (E) = 668.30 15" INV OUT (W) = 668.302	N: 469098.5172 E: 2583054.3582
1A-TC-CV-0315	1A-TELE-04 STA: 17+62.94 OFFSET: 0.00	667.86	28" INV IN (S) = 661.85 15" INV OUT (W) = 661.455 18" INV OUT (N) = 661.847	N: 469105.8199 E: 2583408.1654
1A-TC-CV-0345	1A-TELE-05 STA: 15+25.82 OFFSET: 0.00	661.47	15" INV IN (W) = 655.62 15" INV OUT (N) = 655.570	N: 467373.5039 E: 2583565.2067
1A-TC-CV-0350	1A-TELE-05 STA: 15+84.55 OFFSET: 0.00	669.66	15" INV OUT (E) = 663.810	N: 467372.2920 E: 2583506.4893
1A-TC-CV-0400	1A-TELE-11 STA: 12+51.00 OFFSET: 0.00 R	637.90	25" INV IN (W) = 625.48 25" INV OUT (E) = 625.483	N: 467717.6966 E: 2584551.0156
1A-TC-CV-0401	1A-TELE-11 STA: 13+25.14 OFFSET: -0.01 L	637.88	25" INV IN (W) = 625.48 25" INV OUT (E) = 625.483	N: 467719.2467 E: 2584625.1483
1A-TC-CV-0402	1A-TELE-11 STA: 14+05.05 OFFSET: 0.00	637.86	25" INV IN (W) = 625.48 25" INV OUT (E) = 625.483	N: 467720.8956 E: 2584705.0367
1A-TC-CV-0403	1A-TELE-11 STA: 17+27.09 OFFSET: 0.00 R	637.89	25" INV IN (W) = 629.90 25" INV OUT (E) = 629.896	N: 467727.4982 E: 2585024.9266
1A-TC-CV-0404	1A-TELE-11 STA: 18+07.01 OFFSET: 0.00	637.89	25" INV IN (W) = 629.90	N: 467729.1568 E: 2585104.8242
1A-TC-CV-X100	1A-TELE-03 STA: 10+00.00 OFFSET: 0.00	632.87	15" INV OUT (W) = 622.766	N: 467948.4662 E: 2586948.9068
1A-TC-CV-X200	1A-TELE-01 STA: 10+00.00 OFFSET: 0.00	636.06	15" INV OUT (N) = 629.596	N: 466802.4063 E: 2584279.6321
1A-TC-CV-X300	1A-TELE-04 STA: 35+07.27 OFFSET: 0.00	687.41	15" INV IN (E) = 680.93	N: 469130.3388 E: 2581665.5942
1A-TC-FTB-0115	1A-TELE-01 STA: 30+62.24 OFFSET: 0.00	634.26	40" INV IN (W) = 632.92 15" INV IN (E) = 631.78 40" INV OUT (S) = 632.925 18" INV OUT (N) = 632.925	N: 467912.9594 E: 2585228.4170
1A-TC-FTB-0120	1A-TELE-01 STA: 39+84.53 OFFSET: 0.00 R	638.55	40" INV IN (N) = 637.22 40" INV OUT (W) = 637.056 18" INV OUT (S) = 637.056	N: 466990.8681 E: 2585247.4492
1A-TC-FTB-0130	1A-TELE-01 STA: 11+68.45 OFFSET: 0.00	638.45	15" INV IN (W) = 636.76 40" INV IN (E) = 637.11 25" INV IN (S) = 636.36 40" INV OUT (N) = 637.113 18" INV OUT (W) = 637.147	N: 466970.8204 E: 2584276.1560
1A-TC-FTB-0135	1A-TELE-01 STA: 14+12.30 OFFSET: 0.03 R	638.87	40" INV IN (S) = 637.54 40" INV OUT (N) = 637.545 40" INV OUT (E) = 637.545	N: 467214.6209 E: 2584271.1574
1A-TC-FTB-0140	1A-TELE-07 STA: 10+76.50 OFFSET: 0.00	639.61	40" INV IN (W) = 638.26 40" INV OUT (N) = 638.260	N: 467216.1988 E: 2584347.6076
1A-TC-FTB-0155	1A-TELE-01 STA: 18+72.36 OFFSET: 0.00	638.54	40" INV IN (S) = 637.20 40" INV OUT (N) = 637.203 40" INV OUT (E) = 637.203	N: 467674.5829 E: 2584261.6302
1A-TC-FTB-0160	1A-TELE-06 STA: 10+75.50 OFFSET: 0.00	638.62	40" INV IN (W) = 637.27 40" INV OUT (S) = 637.265 18" INV OUT (E) = 637.265 25" INV OUT (N) = 636.516	N: 467676.1360 E: 2584337.1134
1A-TC-FTB-0170	1A-TELE-01 STA: 20+90.74 OFFSET: 0.00	636.20	40" INV IN (S) = 634.87 40" INV OUT (E) = 634.867	N: 467892.9159 E: 2584257.1238
1A-TC-FTB-01750	1A-TELE-10 STA: 10+00.00 OFFSET: -87.17 L	636.89	40" INV IN (W) = 635.55 40" INV OUT (E) = 635.533 40" INV OUT (N) = 635.532	N: 467898.5953 E: 2584532.5693
1A-TC-HH-001	1A-TELE-08 STA: 14+57.28 OFFSET: 0.00	628.21	18" INV IN (S) = 625.64	N: 468357.2575 E: 2584821.6005
1A-TC-HH-002	1A-TELE-08 STA: 13+26.27 OFFSET: 0.00	629.33	18" INV IN (S) = 627.15 18" INV OUT (N) = 627.151	N: 468226.5806 E: 2584812.2726
1A-TC-HH-003	1A-TELE-12 STA: 10+49.63 OFFSET: 0.00	639.01	18" INV IN (W) = 637.62 18" INV OUT (E) = 637.617	N: 467677.1606 E: 2584386.7301
1A-TC-HH-004	1A-TELE-12 STA: 11+11.83 OFFSET: 0.00	638.69	18" INV IN (W) = 637.03	N: 467678.4442 E: 2584448.9187
1A-TC-HH-005	1A-TELE-10 STA: 11+39.32 OFFSET: 0.00	637.56	18" INV IN (N) = 636.17 18" INV OUT (E) = 636.169	N: 467757.5103 E: 2584448.2920
1A-TC-HH-006	1A-TELE-10 STA: 12+02.88 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.170	N: 467758.7929 E: 2584511.8453
1A-TC-HH-007	1A-TELE-10 STA: 12+46.75 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.171	N: 467759.6980 E: 2584555.6990
1A-TC-HH-008	1A-TELE-10 STA: 13+16.89 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.171	N: 467761.1454 E: 2584625.8254
1A-TC-HH-009	1A-TELE-10 STA: 14+51.90 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.171	N: 467763.9316 E: 2584760.8108
1A-TC-HH-010	1A-TELE-10 STA: 15+46.95 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.171	N: 467765.8930 E: 2584855.8400
1A-TC-HH-011	1A-TELE-10 STA: 16+02.79 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV OUT (E) = 636.171	N: 467767.0452 E: 2584911.6654
1A-TC-HH-012	1A-TELE-10 STA: 17+88.81 OFFSET: 0.00	637.56	18" INV IN (W) = 636.17 18" INV IN (E) = 636.17	N: 467770.8840 E: 2585097.6518
1A-TC-HH-013	1A-TELE-10 STA: 18+46.90 OFFSET: 0.00	637.56	18" INV OUT (W) = 636.172	N: 467772.0828 E: 2585155.7287
1A-TC-HH-014	1A-TELE-10 STA: 10+34.33 OFFSET: 5.20 L	638.40	18" INV IN (N) = 633.37	N: 466984.9602 E: 2585213.2292

STRUCTURE TABLE				
STRUCTURE NAME:	ALIGNMENT & STATION	RIM	CONNECTED PIPES	NORTHING & EASTING
1A-TC-HH-015	1A-TELE-10 STA: 16+63.57 OFFSET: 788.14 R	638.38	18" INV IN (N) = 633.69	N: 466980.3258 E: 2584988.6993
1A-TC-HH-016	1A-TELE-10 STA: 14+51.96 OFFSET: 788.14 R	638.39	18" INV IN (N) = 633.81	N: 466975.9590 E: 2584777.1294
1A-TC-HH-017	1A-TELE-10 STA: 13+15.56 OFFSET: 788.14 R	638.43	18" INV IN (N) = 633.94	N: 466973.1443 E: 2584640.7626
1A-TC-HH-018	1A-TELE-15 STA: 10+38.66 OFFSET: 0.00	636.27	18" INV IN (W) = 634.28	N: 467866.1140 E: 2584513.8321
1A-TC-HH-019	1A-TELE-16 STA: 10+35.09 OFFSET: 0.00	635.91	18" INV IN (N) = 633.52	N: 467869.1527 E: 2584806.5910
1A-TC-HH-020	1A-TELE-17 STA: 10+35.09 OFFSET: 0.00	635.95	18" INV IN (N) = 633.74	N: 467873.3528 E: 2585009.9207
1A-TC-HH-021	1A-TELE-09 STA: 10+18.07 OFFSET: 0.00	635.06	18" INV IN (S) = 633.08 18" INV OUT (N) = 633.081	N: 467917.4451 E: 2584569.9909
1A-TC-HH-022	1A-TELE-09 STA: 13+51.64 OFFSET: 0.00	630.31	18" INV IN (S) = 628.58 18" INV OUT (N) = 628.579	N: 468249.7507 E: 2584545.2451
1A-TC-HH-023	1A-TELE-09 STA: 14+78.54 OFFSET: 0.00	628.79	18" INV IN (S) = 627.27	N: 468376.3296 E: 2584554.2800
1A-TC-HH-024	1A-TELE-08 STA: 10+17.98 OFFSET: 0.00	635.12	18" INV IN (S) = 634.16 18" INV OUT (N) = 634.162	N: 467921.4590 E: 2584768.7010
1A-TC-HH-0360	1A-TELE-18 STA: 13+43.51 OFFSET: 0.00 R	656.74	25" INV IN (N) = 650.45	N: 467514.4443 E: 2583814.8687

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-7600 TELECOM AND ELECTRIC SCHEDULES 4/9/2026 7:45 PM

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KIMLEY-HORN &
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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN J. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

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REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

SCALE: NONE

TELECOM AND ELECTRIC SCHEDULES

SHEET NUMBER:
1A-C-7600

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

C:\ACCACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8000 COMPOSITE UTILITIES PLAN - OVERALL 6/23/2025 5:03 PM



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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

COMPOSITE UTILITIES PLAN - OVERALL

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8000

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8111



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8101 COMPOSITE UTILITIES PLAN 4/9/2026 2:16 PM

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OKLAHOMA
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

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CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8103

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8112

MATCHLINE SEE SHEET 1A-C-8103

MATCHLINE SEE SHEET 1A-C-8105

20.00 SANITARY SEWER EASEMENT

EXISTING CITY OF TULSA WATER EASEMENT

40.00 WATER EASEMENT

EXISTING 12" SANITARY SEWER LINE

EXISTING 48" WATERLINE

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING 15" CMP STORM SEWER PIPE

10.00 WATERLINE EASEMENT

EXISTING UNDERGROUND TELECOM LINES

EXISTING 15" CMP STORM SEWER PIPE

EXISTING 24" CMP STORM SEWER PIPE

50.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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REVISIONS		
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8104

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8113

EXISTING 12" SANITARY SEWER LINE

20.00 SANITARY SEWER EASEMENT

EXISTING 48" WATERLINE

40.00 WATER EASEMENT

EXISTING UNDERGROUND TELECOM LINES

EXISTING UNDERGROUND TELECOM LINE

25.00 TEMPORARY EASEMENT

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING STORM SEWER LINE

10.00 WATERLINE EASEMENT

EXISTING STORM SEWER LINE

50.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

MATCHLINE SEE SHEET 1A-C-8104

MATCHLINE SEE SHEET 1A-C-8106

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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REVISIONS		
NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8114

MATCHLINE SEE SHEET 1A-C-8105

MATCHLINE SEE SHEET 1A-C-8107

APPROXIMATE LOCATION OF COLLAPSED HOUSE

EXISTING CITY OF TULSA WATER METER

20.00 SANITARY SEWER EASEMENT

EXISTING CITY OF TULSA WATER EASEMENT

EXISTING WATERLINE

GATE

EXISTING OVERHEAD ELECTRICAL TRANSMISSION LINE

EXISTING UNDERGROUND TELECOM LINE

25.00 TEMPORARY EASEMENT

10.00 WATERLINE EASEMENT

EXISTING STORM SEWER INLET

EXISTING 18" RCP STORM SEWER PIPE

50.00 RIGHT OF WAY DEDICATION

16.50 STATUTORY RIGHT OF WAY

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
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- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8106 COMPOSITE UTILITES PLAN 4/9/2026 2:27 PM

HDR, INC.
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ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

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NO.	DATE	DESCRIPTION
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DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

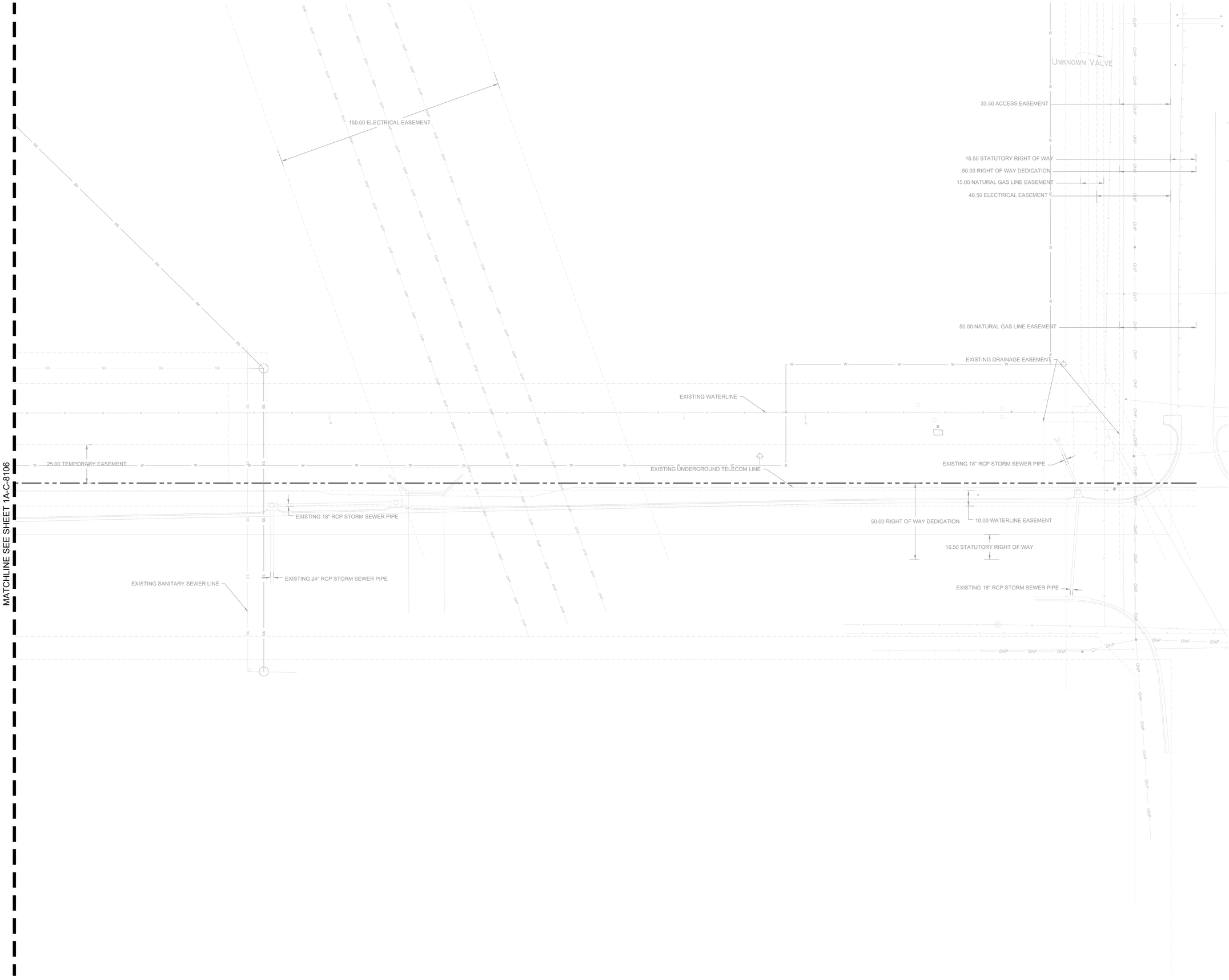
PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8106

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
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- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
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- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

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1437 S BOULDER AVE.
TULSA, OK 74119
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LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8107

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8119

MATCHLINE SEE SHEET 1A-C-8112

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
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- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

EXIT LANE (PHASE 1)
LANE 3 (PHASE 2)
LANE 2 (PHASE 1)
LANE 1 (PHASE 1)
ONLY CARS
ONLY CARS
STOP

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8101 COMPOSITE UTILITES PLAN 4/9/2026 2:16 PM

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DEAN RANDALL — LICENSED PROFESSIONAL ENGINEER — OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8111

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8120

MATCHLINE SEE SHEET 1A-C-8111

MATCHLINE SEE SHEET 1A-C-8113

CYL
HUB 1

CYL 1A DC

OFFICE

LOADING DOCK

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
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- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8101 COMPOSITE UTILITIES PLAN 4/9/2026 2:16 PM

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LICENSED PROFESSIONAL ENGINEER
DEVA RANDALL
OKLAHOMA
04/09/2026

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CONFIDENTIAL CLIENT
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8112

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8121

MATCHLINE SEE SHEET 1A-C-8112

MATCHLINE SEE SHEET 1A-C-8114

CYL 1A DC

SHELL 1

SHELL 2

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACC\ACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8101 COMPOSITE UTILITIES PLAN 4/9/2026 2:16 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL GRAHAM
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8113

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8122

MATCHLINE SEE SHEET 1A-C-8113

150.00 ELECTRICAL EASEMENT

EXISTING
DETENTION
BASIN

APPROXIMATE LOCATION
OF OLD BARNS

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
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- PROCESS WATER (PW)
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- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
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- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8106 COMPOSITE UTILITES PLAN 4/9/2026 2:27 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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ASSOCIATES, INC.
1437 S BOULDER AVE.
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(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN G. RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8114

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8127

EXISTING ELECTRICAL TRANSMISSION TOWER

150.00 ELECTRICAL EASEMENT

MATCHLINE SEE SHEET 1A-C-8120

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
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- SANITARY SEWER (SS)
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- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
DEAN RANDALL
OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8119

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8128

MATCHLINE SEE SHEET 1A-C-8119

MATCHLINE SEE SHEET 1A-C-8121

150.00 ELECTRICAL EASEMENT

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
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- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCVACCDocs\Kimley-Horn\060057900_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8101 COMPOSITE UTILITES PLAN 4/9/2026 2:16 PM

HDR, INC.
1917 SOUTH 67th STREET
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LICENSED PROFESSIONAL ENGINEER
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OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
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PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8129

PERUN 1

150.00 ELECTRICAL EASEMENT

MATCHLINE SEE SHEET 1A-C-8120

MATCHLINE SEE SHEET 1A-C-8122

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
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- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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04/09/2026

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1	2026-04-09	ADDENDUM #1

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

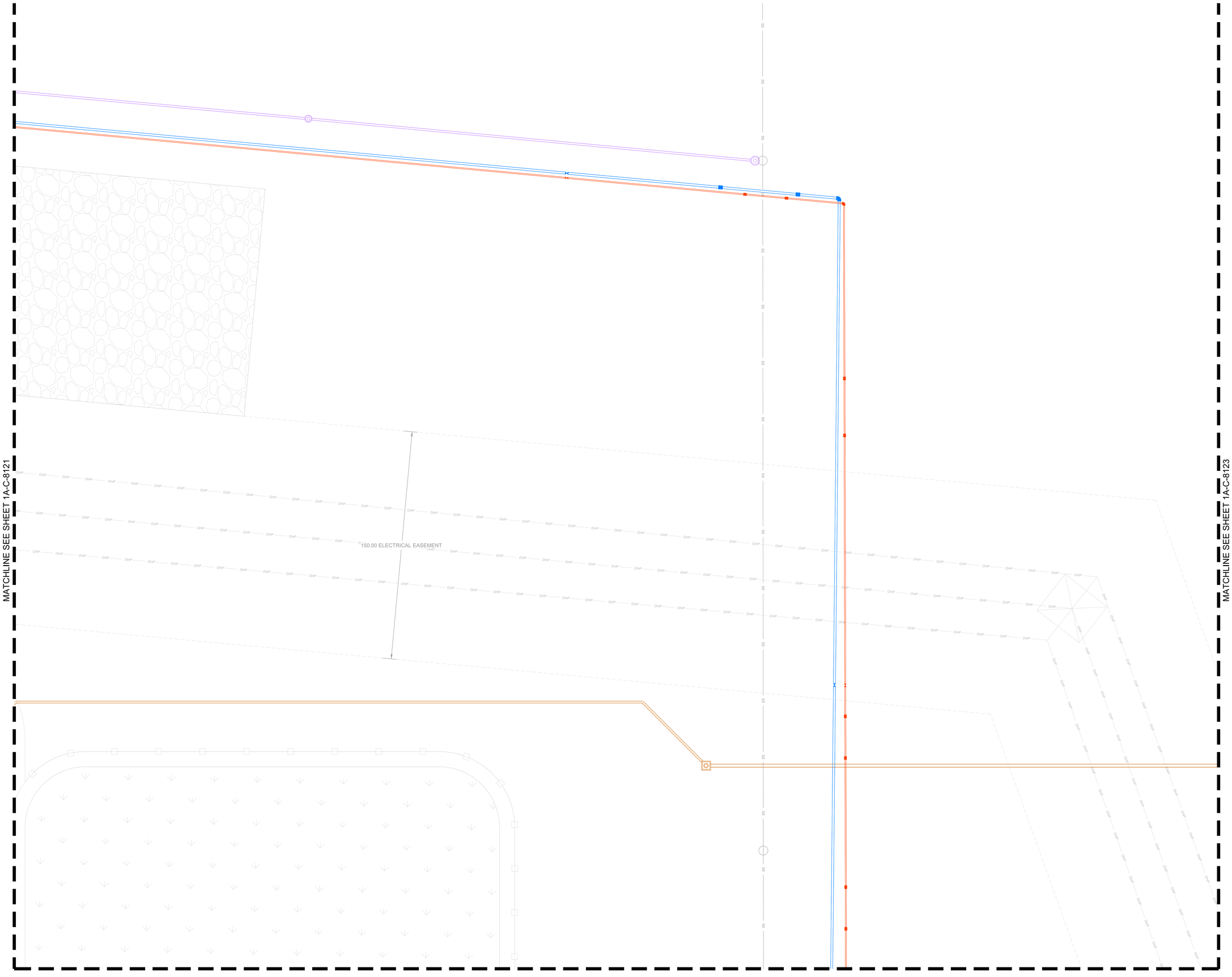
PROJ. NO.: 10434535

COMPOSITE UTILITIES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
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- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

C:\ACCACCDocs\Kimley-Horn\06005790_CYL\Project Files\00_Civil\SPS\03_Production-DWGS\CYL-1A-C-8106 COMPOSITE UTILITES PLAN 4/9/2026 2:27 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

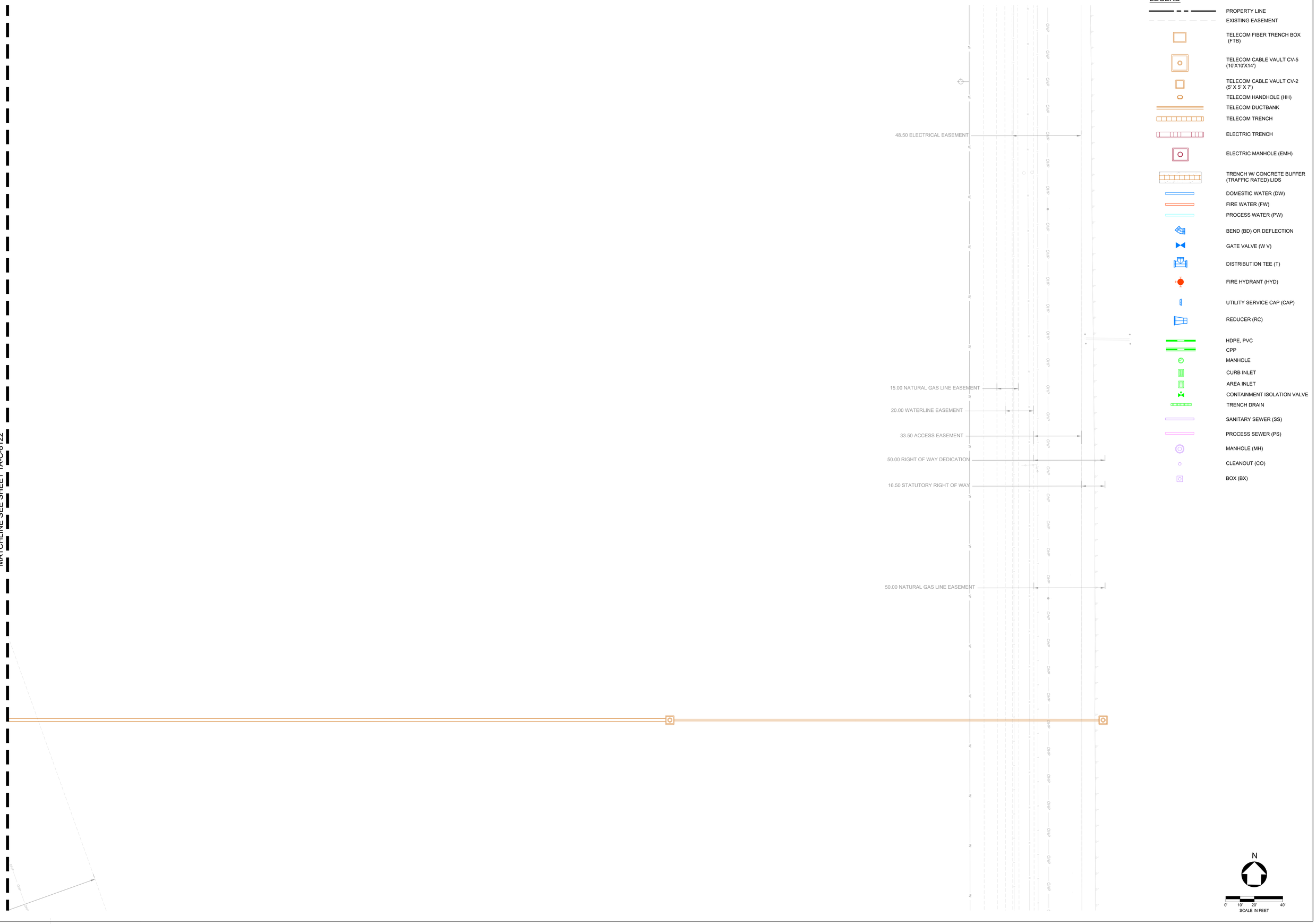
PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8122

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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1917 SOUTH 67th STREET
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Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32622
OKLAHOMA
04/09/2026

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APPRV'D: DGR

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PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8123

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-C-8135

MATCHLINE SEE SHEET 1A-C-8128

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
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- MANHOLE
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- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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1917 SOUTH 67th STREET
OMAHA, NE 68106
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ASSOCIATES, INC.
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LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

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NO.	DATE	DESCRIPTION
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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

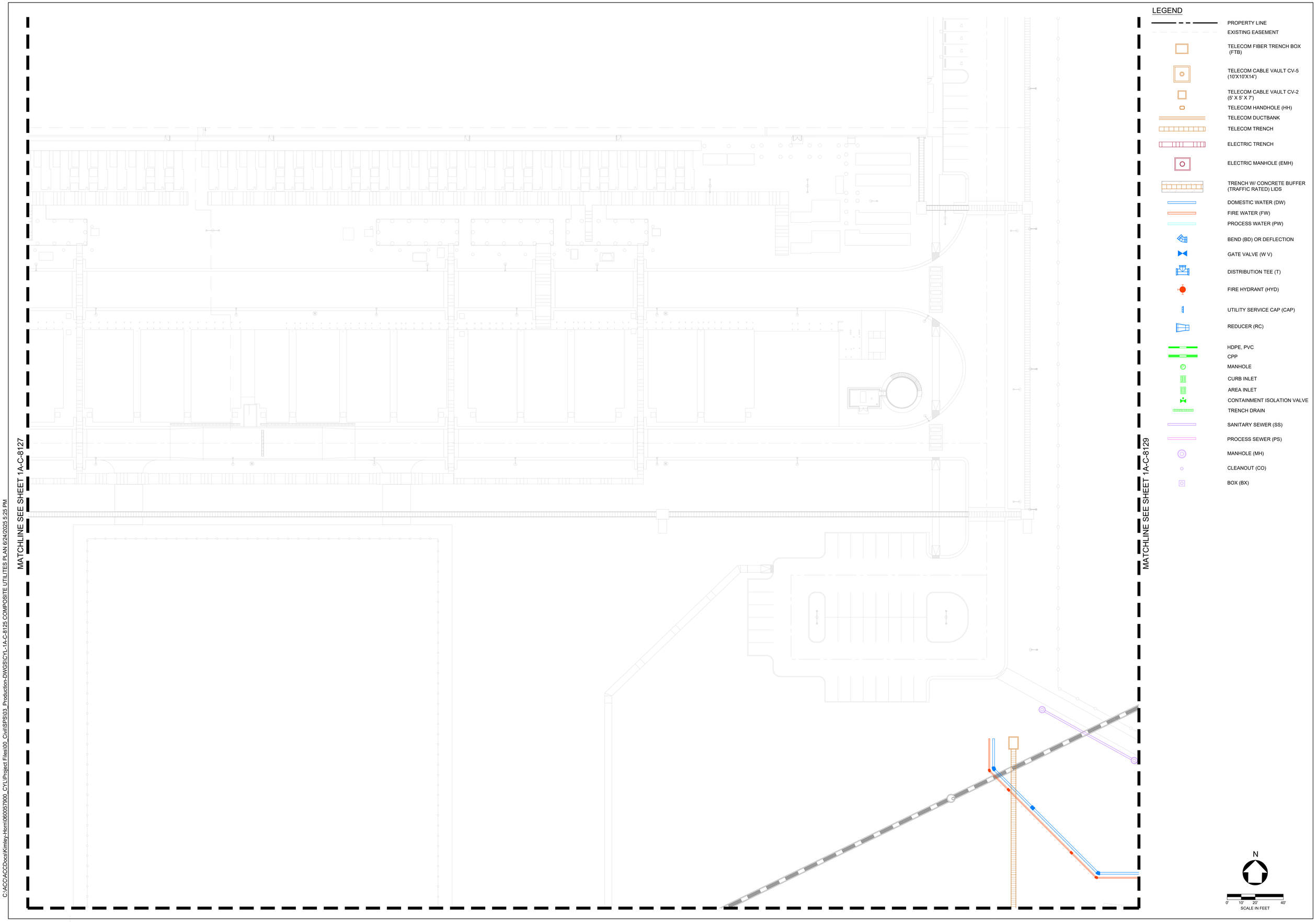
PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8127

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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HDR, INC.
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LICENSED PROFESSIONAL ENGINEER
DEVIN RANDALL
32622
OKLAHOMA
04/09/2026

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APPRV'D: DGR

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8128

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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MATCHLINE SEE SHEET 1A-C-8128

EXISTING DETENTION BASIN

LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
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- REDUCER (RC)
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N

0' 10' 20' 40'
SCALE IN FEET

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OKLAHOMA
04/09/2026

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1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8129

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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LEGEND

- PROPERTY LINE
- EXISTING EASEMENT
- TELECOM FIBER TRENCH BOX (FTB)
- TELECOM CABLE VAULT CV-5 (10'X10'X14')
- TELECOM CABLE VAULT CV-2 (5' X 5' X 7')
- TELECOM HANDHOLE (HH)
- TELECOM DUCTBANK
- TELECOM TRENCH
- ELECTRIC TRENCH
- ELECTRIC MANHOLE (EMH)
- TRENCH W/ CONCRETE BUFFER (TRAFFIC RATED) LIDS
- DOMESTIC WATER (DW)
- FIRE WATER (FW)
- PROCESS WATER (PW)
- BEND (BD) OR DEFLECTION
- GATE VALVE (W V)
- DISTRIBUTION TEE (T)
- FIRE HYDRANT (HYD)
- UTILITY SERVICE CAP (CAP)
- REDUCER (RC)
- HDPE, PVC
- CPP
- MANHOLE
- CURB INLET
- AREA INLET
- CONTAINMENT ISOLATION VALVE
- TRENCH DRAIN
- SANITARY SEWER (SS)
- PROCESS SEWER (PS)
- MANHOLE (MH)
- CLEANOUT (CO)
- BOX (BX)

MATCHLINE SEE SHEET 1A-C-8134

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

LICENSED PROFESSIONAL ENGINEER
DEVIN GRANT RANDALL
OKLAHOMA
04/09/2026

TRADE SECRETS

NOTE: THIS DOCUMENT CONTAINS TRADE SECRETS AND PROPRIETARY/COMMERCIAL/FINANCIAL INFORMATION - EXEMPT FROM DISCLOSURE UNDER THE FREEDOM OF INFORMATION ACT, 5 U.S.C. §552

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION
ADDENDUM #1

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
-	2026-04-03	ISSUE FOR CONSTRUCTION - SPS
1	2026-04-09	ADDENDUM #1

DRAWN: JLF

APPRV'D: DGR

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

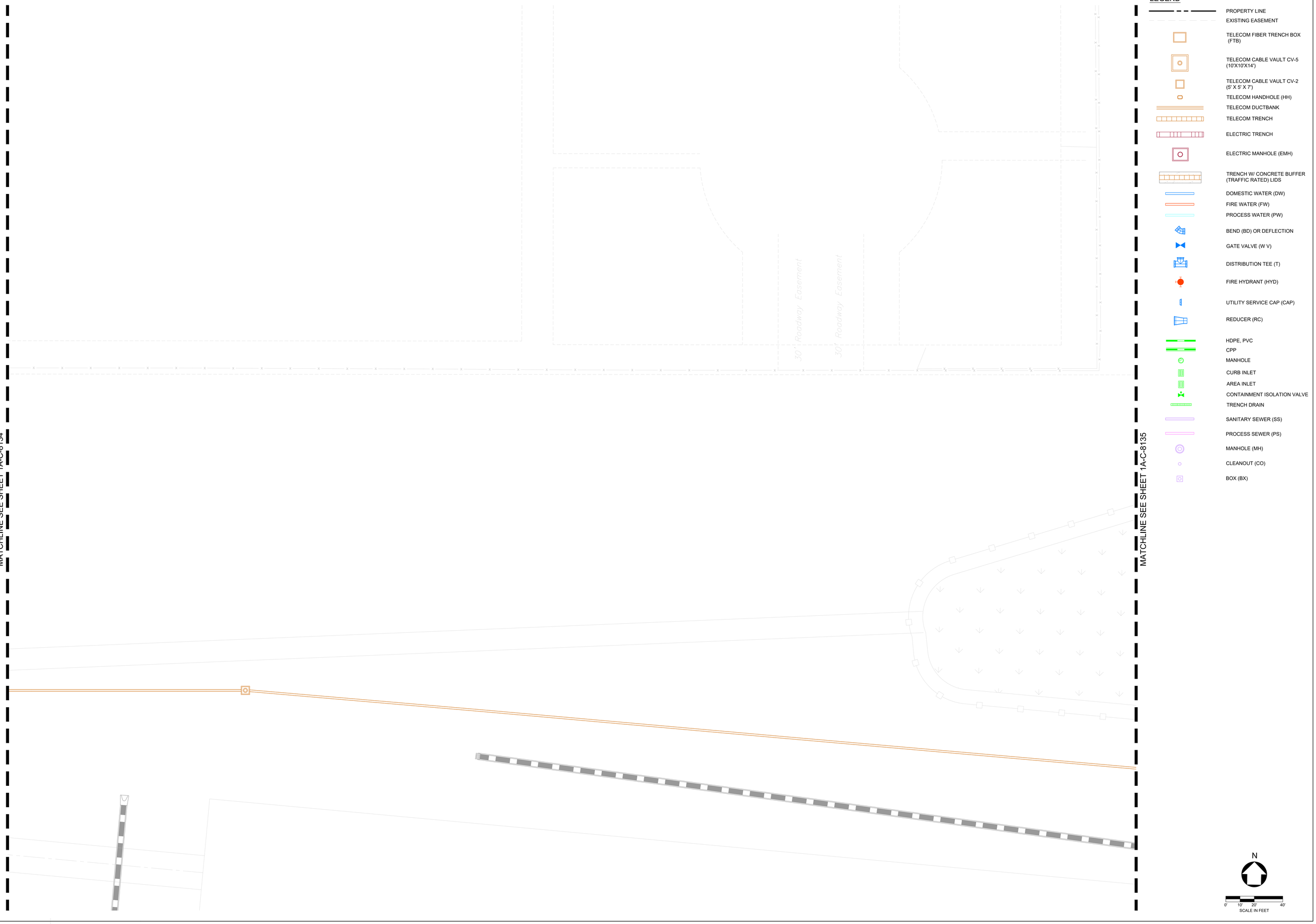
PROJ. NO.: 10434535

COMPOSITE UTILITES PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-8133

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



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32622
OKLAHOMA
04/09/2026

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MATCHLINE SEE SHEET 1A-C-8143

MATCHLINE SEE SHEET 1A-C-8134

EXISTING DETENTION BASIN

LEGEND

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- CLEANOUT (CO)
- BOX (BX)

N

0' 10' 20' 40'
SCALE IN FEET

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LICENSED PROFESSIONAL ENGINEER — DEVIN RANDALL — OKLAHOMA
04/09/2026

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GENERAL NOTES:

1. WRITTEN DIMENSIONS PREVAIL OVER SCALED DIMENSIONS. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
2. THE CONTRACTOR BEARS ALL RESPONSIBILITY FOR VERIFYING ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO CONSTRUCTION. ANY DAMAGE TO UTILITIES THAT ARE TO REMAIN SHALL BE REPAIRED IMMEDIATELY AT NO EXPENSE TO THE OWNER. LANDSCAPE ARCHITECT ASSUMES NO RESPONSIBILITY FOR ANY NOT SHOWN ON PLANS.
3. ALL PROPOSED AND FINISHED GRADES ARE BASED ON INFORMATION PROVIDED BY THE OWNER'S SURVEY AND/OR CIVIL ENGINEER. ANY DISCREPANCIES IN ACTUAL FIELD MEASUREMENTS ARE TO BE REPORTED TO THE LANDSCAPE ARCHITECT IMMEDIATELY.
4. PRIOR TO COMMENCEMENT OF HARDSCAPE CONSTRUCTION, ALL PIERS, FOOTINGS, AND WALLS ARE TO BE SURVEYED, LAID OUT, AND STAKED IN FIELD FOR REVIEW BY LANDSCAPE ARCHITECT. CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DEMOLITION, ADJUSTMENTS, OR RECONSTRUCTION RESULTING FROM UNAUTHORIZED CONSTRUCTION ACTIVITIES.
5. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED BY LANDSCAPE ARCHITECT ARE PROVIDED FOR CONVENIENCE ONLY. CONTRACTORS ARE TO BID THEIR OWN VERIFIED QUANTITIES. NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES.
6. EASEMENTS SETBACKS, BUILDING, CURB AND GUTTER, UNDERGROUND UTILITIES HAVE BEEN SUPPLIED TO LANDSCAPE ARCHITECT BY THE PROJECT CIVIL ENGINEER. REFER TO CIVIL ENGINEERS DRAWINGS FOR ADDITIONAL INFORMATION.

PLANTING NOTES:

1. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION OF ALL UNDERGROUND UTILITIES, PIPES, STRUCTURES, AND LINE RUNS IN THE FIELD PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADVISE THE LANDSCAPE ARCHITECT OF ANY CONDITION FOUND ON THE SITE WHICH PROHIBITS INSTALLATION AS SHOWN ON THESE DRAWINGS.
3. ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AND MUST BE REPLACED WITH PLANT MATERIAL OF SAME VARIETY AND SIZE IF DAMAGED, DESTROYED, OR REMOVED.
4. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR FINE GRADING AND REMOVAL OF DEBRIS PRIOR TO PLANTING IN ALL AREAS.
5. FINAL FINISH GRADING SHALL BE REVIEWED BY THE LANDSCAPE ARCHITECT. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADDITIONAL TOPSOIL REQUIRED TO CREATE A SMOOTH CONDITION PRIOR TO PLANTING.
6. ALL PLANT QUANTITIES LISTED ARE FOR INFORMATION ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE FULL COVERAGE IN ALL PLANTING AREAS AS SPECIFIED IN THE PLANT SCHEDULE AND VERIFY ALL QUANTITIES.
7. LANDSCAPE CONTRACTOR TO PROVIDE STEEL EDGING (REFER TO MATERIALS PAGE) BETWEEN ALL PLANTING BEDS AND LAWN AREAS.
8. ALL PLANT MATERIAL SHALL CONFORM TO THE SPECIFICATIONS AND SIZES GIVEN IN THE PLANT LIST AND SHALL BE NURSERY GROWN IN ACCORDANCE WITH THE LATEST EDITION AMERICAN STANDARD FOR NURSERY STOCK. ANY PLANT SUBSTITUTION SHALL BE APPROVED BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE.
9. LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR ANY COORDINATION WITH OTHER CONTRACTORS ON SITE AS REQUIRED TO ACCOMPLISH ALL PLANTING OPERATIONS.
10. ALL NEW PLANTING AREAS TO BE AMENDED PER SPECIFICATIONS.
11. ANY PLANT MATERIAL THAT DOES NOT SURVIVE SHALL BE REPLACED WITH AN EQUIVALENT SIZE AND SPECIES WITHIN THIRTY (30) DAYS.
12. PLANT MATERIAL SHALL BE PRUNED AS NECESSARY TO CONTROL SIZE BUT NOT TO DISRUPT THE NATURAL GROWTH PATTERN OR CHARACTERISTIC FORM OF THE PLANT EXCEPT AS NECESSARY TO ACHIEVE HEIGHT CLEARANCE FOR VISIBILITY AND PEDESTRIAN PASSAGE OR TO ACHIEVE A CONTINUOUS OPAQUE HEDGE IF REQUIRED.
13. LANDSCAPED AREAS SHALL BE KEPT FREE OF TRASH, WEEDS, DEBRIS, AND DEAD PLANT MATERIAL.
14. ALL LIME STABILIZED SOIL & INORGANIC SELECT FILL FOR BUILDING SHOULD BE REMOVED FROM PLANTING AREAS TO A DEPTH OF 24" & REPLACED WITH ORGANIC IMPORTED TOPSOIL FILL.
15. TREES OVERHANGING PEDESTRIAN WALKWAYS AND PARKING SHALL HAVE 7' CLEAR TRUNK HEIGHT TO MEET ACCESSIBILITY REQUIREMENTS. TREES OVERHANGING PUBLIC STREETS AND FIRE LANE SHALL HAVE A 14' MIN. CLEAR TRUNK HEIGHT.
16. CONTRACTOR TO PROVIDE 12 MONTH WARRANTY AFTER FINAL ACCEPTANCE.
17. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITY (NOT ALREADY INCLUDED IN PLANTING PLANS) TO BE FINE GRADED, AND PLANTED WITH PLANTED WITH PLANTS OR SEED TO MATCH EXISTING CONDITIONS.

ACCESSIBILITY NOTES:

1. TREES PLANTED ADJACENT TO ACCESSIBLE ROUTES AND ACCESSIBLE AREAS SHALL BE PRUNED TO PROVIDE CLEARANCE OF 80" AFF.
2. IF PAVING HAS IRREGULAR PATTERN PROVIDED, JOINTS EXCEEDING MAX. ¾" W, SHALL BE "FLUSH" WITH PAVING SURFACE MATERIAL.

IRRIGATION NOTES:

1. IRRIGATION CONTRACTOR SHALL TEST EXISTING STATIC PRESSURE ON SITE PRIOR TO CONSTRUCTION. SHOULD EXISTING SITE PRESSURE BE BELOW THE DESIGN PRESSURE SPECIFIED WITHIN THESE PLANS, THE CONTRACTOR SHALL CONTACT THE IRRIGATION DESIGNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2. THE IRRIGATION CONTRACTOR SHALL SECURE ALL REQUIRED PERMITS AND PAY ALL ASSOCIATED FEES, UNLESS OTHERWISE NOTED. ALL LOCAL CODES SHALL PREVAIL OVER ANY DISCREPANCIES HEREIN.
3. THE IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION INSTALLATION WITH PLANTING PLAN AND SITE CONDITIONS TO PROVIDE COMPLETE 100% COVERAGE WITH MINIMUM OVERSPRAY. THE IRRIGATION CONTRACTOR SHALL MAKE MINOR ADJUSTMENTS TO ENSURE PROPER COVERAGE AT NO ADDITIONAL COST TO THE OWNER.
4. ALL CONSTRUCTION SHALL CONFORM TO CITY, COUNTY, STATE, AND FEDERAL REQUIREMENTS. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THAT ALL IRRIGATION EQUIPMENT MEETS GOVERNMENT REGULATIONS. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR OBTAINING ANY NECESSARY PERMITS OR APPROVALS PRIOR TO COMMENCEMENT OF OPERATIONS ON-SITE. COPIES OF THE PERMITS SHALL BE SENT TO THE OWNER/GENERAL CONTRACTOR.
5. LATERAL PIPE SHALL BE INSTALLED AT A MINIMUM DEPTH OF 12 INCHES. MAINLINE PIPE AND WIRES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 18 INCHES.
6. ELECTRICAL POWER SHALL BE PROVIDED WITHIN 5 FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR. LICENSED IRRIGATION CONTRACTOR TO PROVIDE FINAL HARD WIRE TO CONTROLLER.
7. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF 14 GAUGE, U.L. APPROVED FOR DIRECT BURIAL, SINGLE CONDUCTOR "IRRIGATION WIRE". CONTRACTOR TO CONFIRM WIRE SIZE PRIOR TO INSTALLATION. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF WIRE CONNECTOR UL APPROVED AND FILLED WITH SILICONE.
8. ALL REMOTE VALVE BOXES SHALL BE SET FLUSH WITH FINISHED GRADE AND CONTAIN ONE CUBIC FOOT OF CLEAN GRAVEL BENEATH VALVE. LABEL REMOTE BOXES WITH ONE-INCH ALPHA NUMERIC NOTATION CORRESPONDING TO THE APPLICABLE ALPHA CONTROLLER AND NUMERIC STATION. USE 10" ROUND VALVE BOXES FOR ELECTRIC VALVES AND QUICK COUPLING VALVES. USE 15" X 9.5" RECTANGULAR BOX FOR DRIP VALVES UNLESS NOTED OTHERWISE. DOUBLE CHECK ASSEMBLY SHALL BE BOXED ACCORDING TO LOCAL CODES.
9. ALL SPRAY HEADS SHALL BE CONNECTED USING PVC SWING JOINT ASSEMBLIES TO CONNECT ALL SPRAY AND ROTOR HEADS.
10. ALL ROTOR HEADS SHALL BE CONNECTED WITH A MINIMUM 12" LENGTH OF ¾" FLEX PCV. THE FLEX PVC SHALL BE SOLVENT-WELDED TO SCHEDULE 40 PCV FITTINGS WITH WELD-ON *795 SOLVENT AND *P-70 PRIMER. PRIMER SHALL BE PURPLE IN COLOR
11. THE CONTRACTOR SHALL CONTACT APPROPRIATE AUTHORITIES AND LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, EQUIPMENT QUANTITIES, AND UTILITY LOCATIONS PRIOR TO BEGINNING WORK.
12. SLEEVES SHALL BE INSTALLED BY GENERAL CONTRACTOR. SLEEVE MATERIAL SHALL BE PVC SHCEULE 40 UNLESS OTHERWISE NOTED. CONTRACTOR SHALL EXTEND SLEEVES 12 INCHES BEYOND EDGE OF ALL PAVEMENT.
13. ELECTRICAL WIRES FOR IRRIGATION VALVES AND IRRIGATION LINES ARE TO BE PLACED IN SEPARATE SLEEVES. SEE SLEEVING DETAIL. ALL PRESSURE MAINLINES UNDER ASPHALT PAVEMENT SHALL BE PLACED WITHIN SLEEVES AS NOTED.
14. DRIP LINE SHALL BE PLACED A MINIMUM OF 3" UNDER MULCH AND SECURE TO THE GROUND WITH DRIP IRRIGATION TUBING STAKES.
15. LICENSED IRRIGATION CONTRACTOR SHALL ADJUST SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE AND ADJUST FOR MINIMUM OVERSPRAY ONTO PAVEMENT. NO OVERSPRAY IS PERMITTED ONTO STREETS OR SIDEWALKS.
16. THE IRRIGATION CONTRACTOR SHALL SUPPLY AND CONSTRUCT IRRIGATION SYSTEM WITH ALL MATERIALS AND PER MANUFACTURER SPECIFICATIONS SHOWN ON THIS PLAN. IF CONTRACTOR PREFERS MATERIALS THAT DIFFER FROM THIS PLAN, THEY SHALL BE APPROVED BY THE IRRIGATION DESIGNER PRIOR TO CONSTRUCTION.
17. VERIFY CONTROLLER AND RAIN SENSOR LOCATION AND MAINLINE POINT OF CONNECTION AT PROJECT SITE WITH OWNER.
18. EXISTING TREES TO REMAIN ARE TO BE PROTECTED FROM DAMAGE. DO NOT TRENCH OR EXCAVATE WITHIN THE CRITICAL ROOT ZONE OF ANY TREE.
19. IRRIGATION LATERAL LINES, MAIN LINES AND EQUIPMENT MAY BE SHOWN OUTSIDE PROPERTY LINES ON THIS PLAN. ALL IRRIGATION LINES AND EQUIPMENT SHALL BE WITHIN AND INSTALLED WITHIN THE LIMITS OF THE PROPERTY LINE.
20. SUPPLY LINE AND METER SHALL BE PROVIDED BY GENERAL CONTRACTOR. BACKFLOW PREVENTER TO BE PROVIDED BY IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR'S POINT OF CONNECTION TO BEGIN AFTER THE IRRIGATION WATER METER.
21. THE IRRIGATION CONTRACTOR SHALL REVIEW WINTERIZATION PROCEDURES FOR IRRIGATION SYSTEM WITH OWNERS REPRESENTATIVE.
22. ALL PLANT MATERIAL IN TREE HOLDING AREAS SHALL BE MANUALLY WATERED/IRRIGATED TO KEEP MOIST UNTIL PLANTED.
23. MAINLINE, VALVES, AND WIRING ARE SHOWN ON DRAWINGS FOR CLARITY, AND SHOULD BE LOCATED IN ACCESSIBLE GREEN SPACE. CONTRACTOR TO COORDINATE WITH ALL DISCIPLINES TO AVOID CONFLICTS WITH UTILITIES/ STRUCTURES, ETC.
24. INSTALLATION OF WORK SHALL BE COORDINATED WITH OTHER CONTRACTORS IN SUCH A MANNER AS TO ALLOW FOR A SPEEDY AND ORDERLY COMPLETION OF ALL WORK ON THE SITE.
25. SET SPRAY HEADS 4" FROM BACK OF CURB OR 24" IF PAVEMENT HAS NO CURB.
26. THE IRRIGATION CONTRACTOR SHALL PROVIDE "AS-BUILT" DRAWINGS OF THE FINAL INSTALLATION TO OWNER AT SUBSTANTIAL COMPLETION BEFORE RECEIVING FINAL PAYMENT. "AS-BUILT" DRAWINGS TO BE COLOR CODED BY ZONE ON 8.5" X 11", LAMINATED, AND PLACED IN CONTROLLER.
27. ALL DRIP ZONES SHALL BE INSTALLED WITH A SELF-FLUSHING DISC FILTER, OR APPROVED EQUAL.
28. THE CONTRACTOR SHALL INSTALL ALL IRRIGATION COMPONENTS AS PER MANUFACTURERS REQUIREMENTS.
29. IRRIGATION HEADS AND COMPONENTS SHALL BE LOCATED A MINIMUM OF 24" FROM ALL BUILDINGS TO AVOID ADVERSE PERFORMANCE OF FOUNDATIONS AND SLABS.
30. NO LATERALS SHALL BE LESS THAN 1" DIAMETER.
31. NO MAINLINES SHALL BE LESS THAN 1" DIAMETER.

MATERIAL LEGEND:

METALS

M-1

STEEL EDGE

MATERIAL:	3/16" x 6" STEEL
COLOR:	POWDERCOAT BLACK
SIZE:	LENGTHS PER PLAN, ALL SEAMS TO BE FLUSH AND LEVEL
INSTALL:	REF. DETAILS
APPROVAL:	***CUT SHEET***

AGGREGATES

AG-1

AGGREGATE

TYPE:	CRUSHED GRAVEL
COLOR:	BLACK EAGLE
SIZE:	2-4" SIZE, 4" DEPTH
INSTALL:	REFER TO DETAILS
SUPPLIER:	MINICK MATERIAL, OR APPROVED EQUAL
CONTACT:	(405.834.8280)
APPROVAL:	***SAMPLE, MOCKUP***

PLANT SCHEDULE:

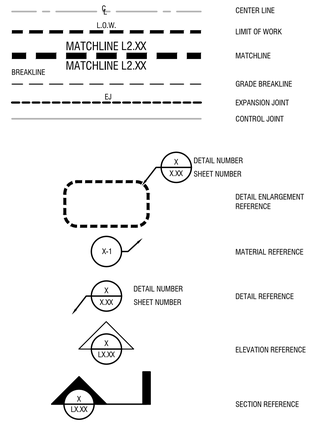
SYMBOL	COMMON / BOTANICAL NAME	CONT.	SIZE	SPACING	QTY	REMARKS
TREES						
	-Existing Tree To Remain- / Existing Tree To Remain	-		Existing	170	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	10`-12` ht	As Shown	84	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER, 7' CLEAR AT SIDEWALKS, 14' CLEAR AT FIRELINE
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	10`-12` ht	As Shown	83	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER, 7' CLEAR AT SIDEWALKS, 14' CLEAR AT FIRELINE
	Shumard Oak / Quercus shumardii	3" cal	10`-12` ht	As Shown	85	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER, 7' CLEAR AT SIDEWALKS, 14' CLEAR AT FIRELANE
	Sweet Gum / Liquidambar styraciflua	3" cal	10`-12` ht	As Shown	81	B&B, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED, STRONG CENTRAL LEADER, 7' CLEAR AT SIDEWALKS, 14' CLEAR AT FIRELINE
ORNAMENTAL TREES						
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	10`-12` ht	As Shown	20	CONTAINER, NURSERY GROWN, MATCHED, FULL, WELL-BRANCHED
SHRUBS						
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	18" h X 18" w	30" OC	60	
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	24" h x 24" w	30" OC	47	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	48" ht. min.	60" OC	12	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
SYMBOL	**COMMON / BOTANICAL NAME**	**CONT.**	**SIZE**	**SPACING**	**QTY**	**REMARKS**
GROUND COVERS						
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6" h X 6" w	18" o.c.	505	CONTAINER, NURSERY GROWN, MATCHED AND WELL ROOTED
SEED						
	Bermuda Grass / Seed	HYDROSEED			5,281,493 sf	JOHNSON SEED CO, OR APPROVED EQUAL SEED RATES PER MANUF. PROVIDE PROMATRIX ENGINEERED FIBER MATRIX (EFM), FROM PROFILE EVS, OR APPROVED EQUAL.
SOD						
	Bermuda grass / Cynodon dactylon	SOD			165,778 sf	SOD TO HAVE TIGHT, SAND FILLED JOINTS AND BE FREE OF WEEDS

LEGEND:
BT - BUFFER TREE

NOTES:
1. PLANT QUANTITIES ARE PROVIDED FOR CONVENIENCE ONLY. IN THE CASE OF A DISCREPANCY, THE DRAWING SHALL TAKE PRECEDENCE.
2. PLANTS ARE SPECIFIED BY HEIGHT, SPREAD, AND CONTAINER SIZE. ALL PLANTINGS ARE EXPECTED TO MEET ALL SPECIFICATIONS PROVIDED.
3. FOR ALL SLOPES GREATER THAN 4:1 CONTRACTOR TO PROVIDE EROSION CONTROL BLANKET S150, NORTH AMERICAN GREEN OR APPROVED EQUAL

SYMBOLS LEGEND:

GENERAL



CODE CHART:

CYL INDUSTRIAL SPS

TULSA, OKLAHOMA

SITE DATA	AC	SF
Zoning	PUD 871	
Total Site Area	32.15	1,400,511
Parking Spaces	119	
LANDSCAPE REQUIREMENTS	**Required**	**Provided**
Bufferyard		
E 76th St 3,920 ft length / 20 ft per canopy tree	196	196
E 86th St 3,897 ft length / 20 ft per canopy tree	195	195
N Yale Ave 1,075 ft length / 20 ft per canopy tree	54	54
S boundary of Westgate Addition 1,324 ft length / 20 ft per canopy tree	66	66
W boundary N of electrical ROW 2,592 ft length / 20 ft per canopy tree	130	130
W boundary S of electrical ROW 1,397 ft length / 20 ft per canopy tree	70	70

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARWIN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

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APPRV'D: DAS

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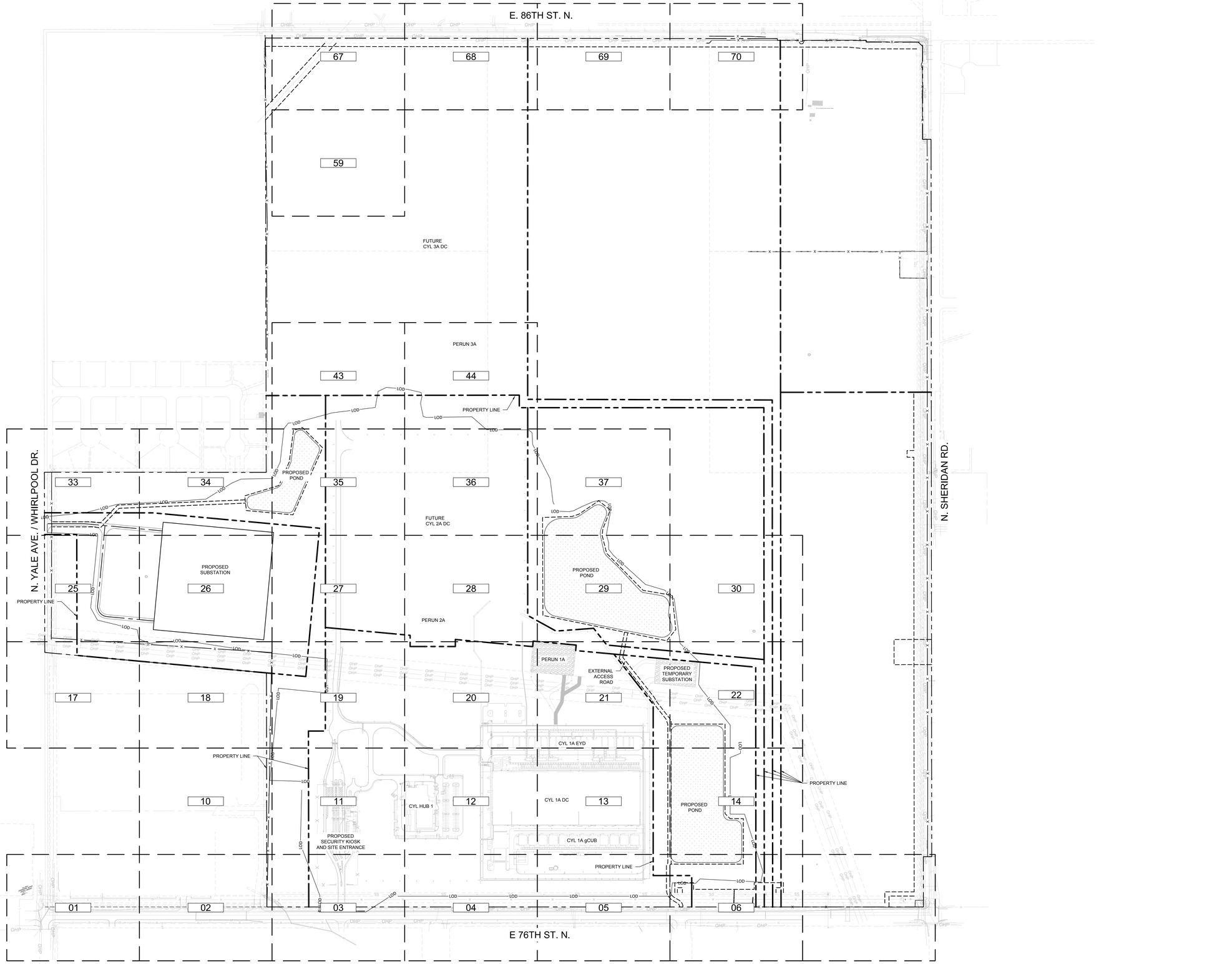
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434525

GENERAL NOTES & MATERIALS LEGEND
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9000
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9100 GENERAL NOTES & MATERIALS LEGEND 3/17/2026 4:52 PM



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STATE OF OKLAHOMA
DARWIN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

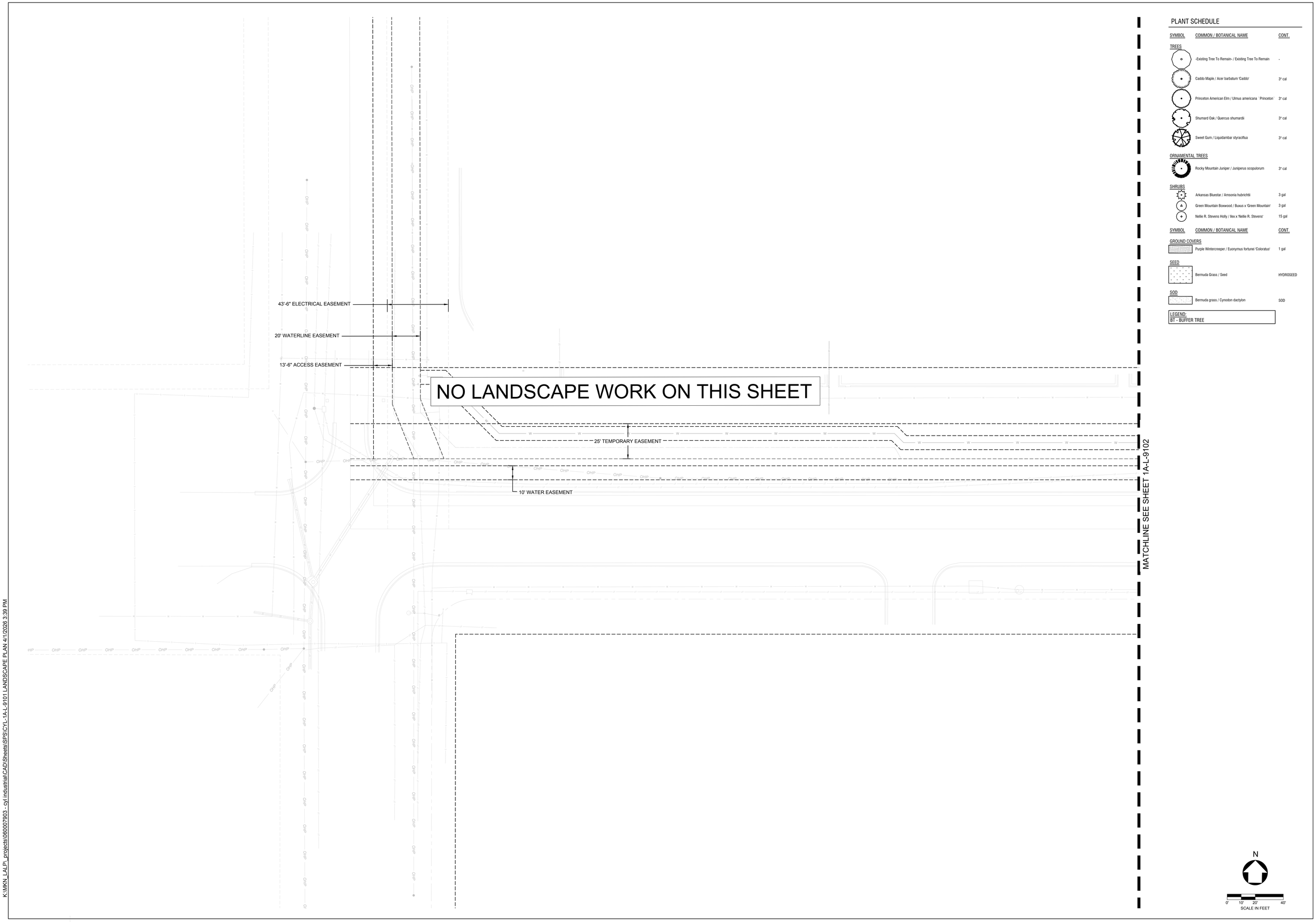
PROJ. NO.: 10434525

LANDSCAPE OVERALL PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9100

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9101 LANDSCAPE PLAN 4/1/2026 3:39 PM

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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NO.	DATE	DESCRIPTION
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PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9101
PAPER SIZE: E (36"x48")
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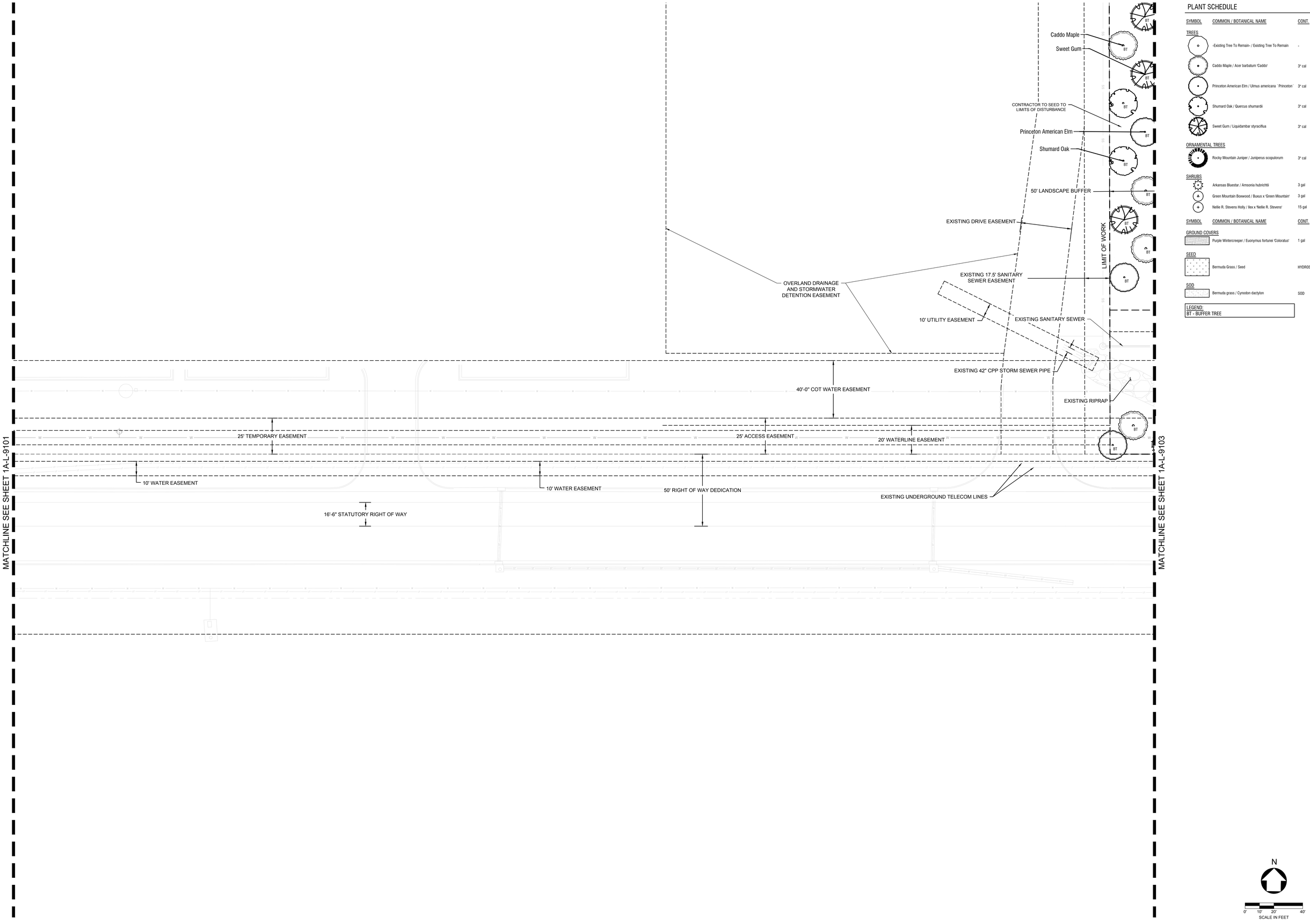

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal
SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9101 LANDSCAPE PLAN 4/1/2026 3:39 PM

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STATE OF OKLAHOMA · DARRAN SCOTT · #362 · REGISTERED LANDSCAPE ARCHITECT

04/03/2026

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PROJECT ADDRESS:
TULSA COUNTY, OK

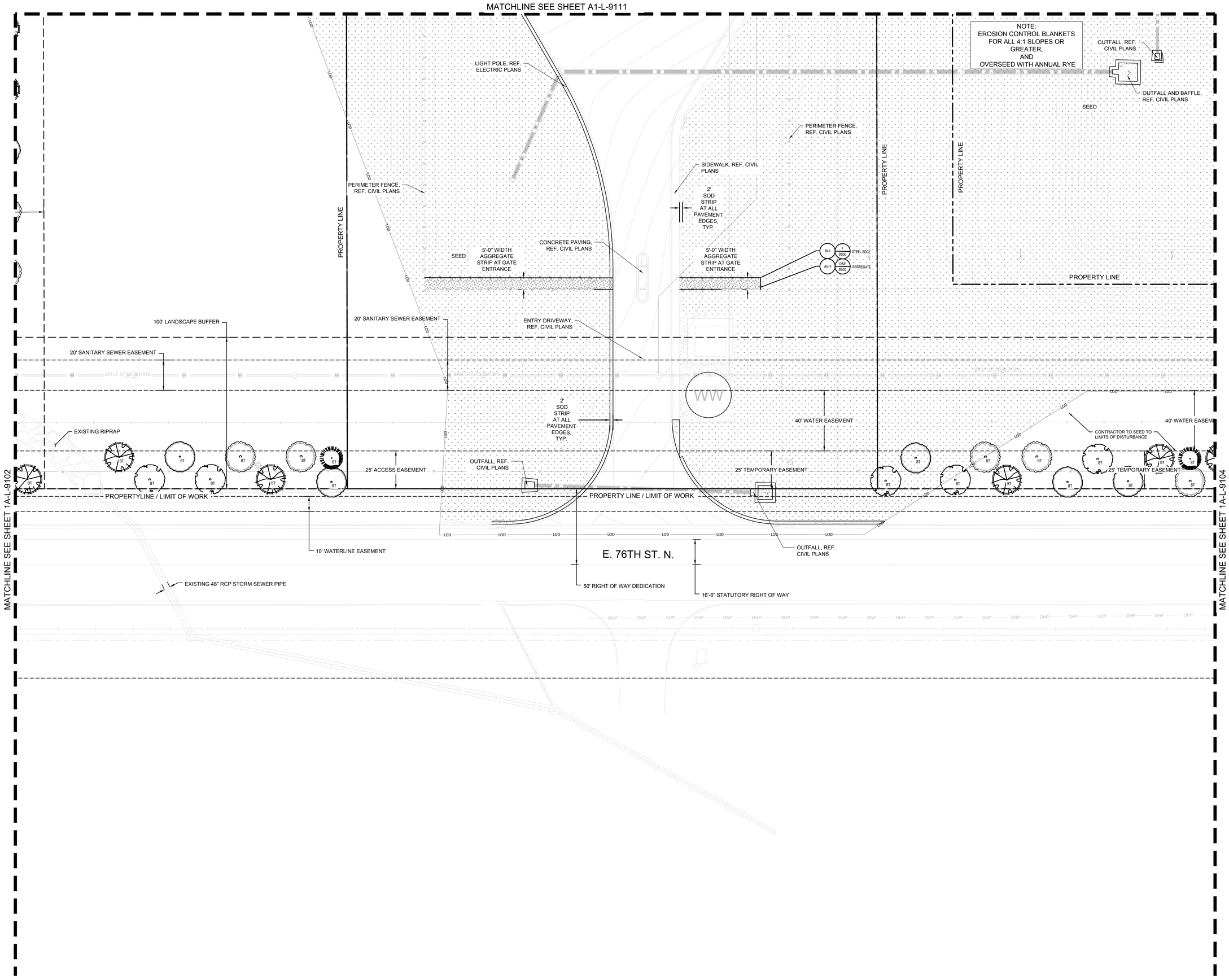
PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9102

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

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REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

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PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9103
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9112

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

OUTFALL, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

SEED

SOD

RETAINING WALL, REF. CIVIL PLANS

SIDEWALK, REF. CIVIL PLANS

Nellie R. Stevens Holly

Purple Wintercreeper

DUMPSTER PAD, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

PROPERTY LINE

100' LANDSCAPE BUFFER

PROPERTY LINE

20' SANITARY SEWER EASEMENT

20' SANITARY SEWER EASEMENT

40' WATER EASEMENT

EXISTING FIRE HYDRANT

Rocky Mountain Juniper

Caddo Maple

Sweet Gum

40' WATER EASEMENT

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

25' TEMPORARY EASEMENT

PROPERTY LINE / LIMIT OF WORK

Princeton American Elm

Shumard Oak

10' WATERLINE EASEMENT

MATCHLINE SEE SHEET 1A-L-9103

MATCHLINE SEE SHEET 1A-L-9105

E. 76TH ST. N.

50' RIGHT OF WAY DEDICATION

16'-6" STATUTORY RIGHT OF WAY

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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TULSA, OK 74119
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STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
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PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9104
PAPER SIZE: E (36"x48")
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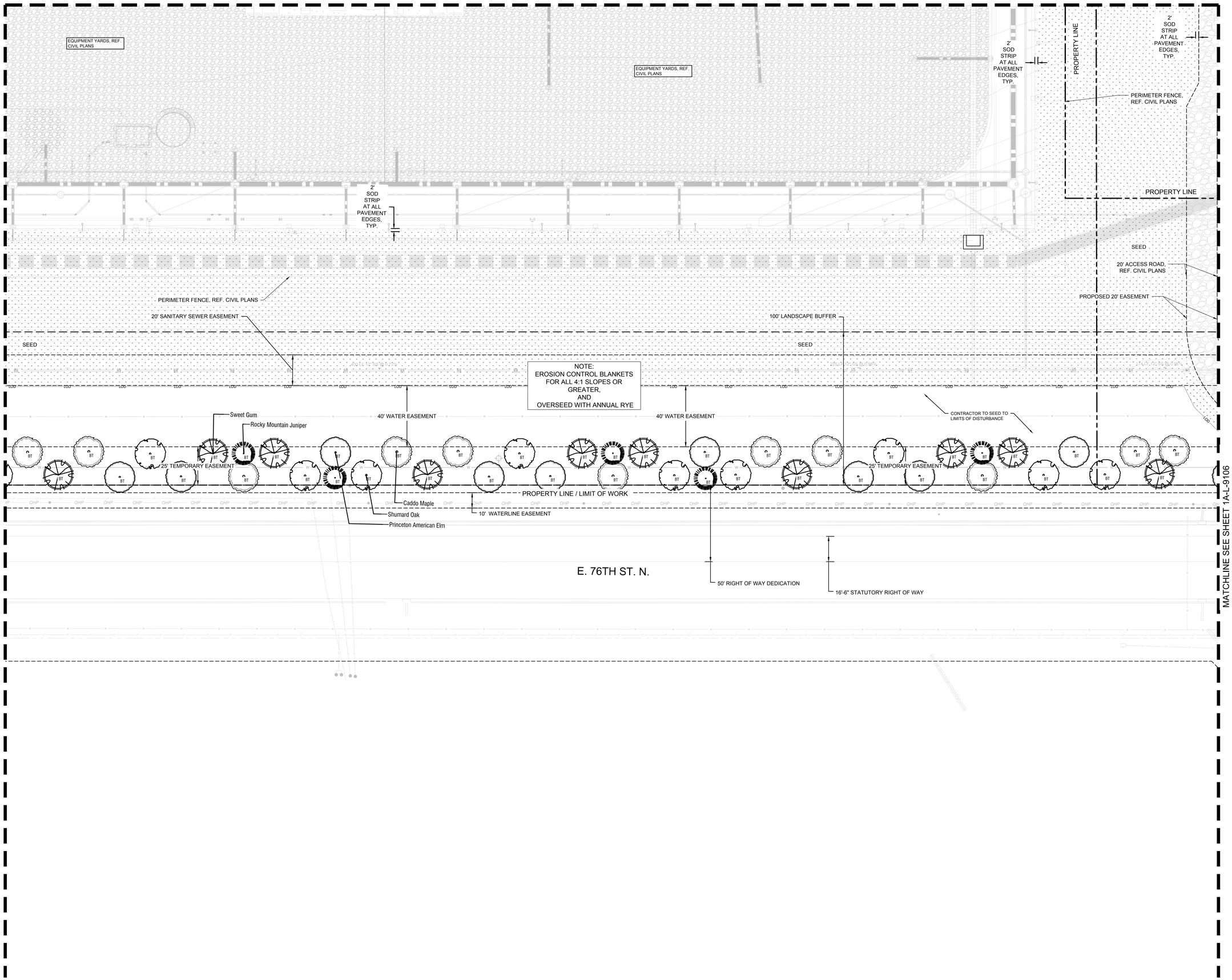

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA — DARIAN SCOTT — #362 — LANDSCAPE ARCHITECT
04/03/2026

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TULSA COUNTY, OK

PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9105

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9114

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

DETENTION BASIN

GRAVEL PATH, REF. CIVIL PLANS

SOD STRIP AT SLOPES GREATER THAN 3 TO 1 TYP.

SOD

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

PROPOSED PROPERTY EASEMENT

EXISTING TREE TO REMAIN, TYP.

PROPERTY LINE

SEED

EXISTING CITY OF TULSA WATER EASEMENT

100' LANDSCAPE BUFFER

20' SANITARY SEWER EASEMENT

SOD STRIP AT ALL PAVEMENT EDGES, TYP.

OUTFALL, REF. CIVIL PLANS

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

40' WATER EASEMENT

Sweet Gum
Caddo Maple
Princeton American Elm
Shumard Oak
Rocky Mountain Juniper

25' TEMPORARY EASEMENT

PROPERTY LINE / LIMIT OF WORK

10' WATERLINE EASEMENT

Caddo Maple
Shumard Oak
EXISTING FIRE HYDRANT

E. 76TH ST. N.

50' RIGHT OF WAY DEDICATION

16'-6" STATUTORY RIGHT OF WAY

MATCHLINE SEE SHEET 1A-L-9105

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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DARIAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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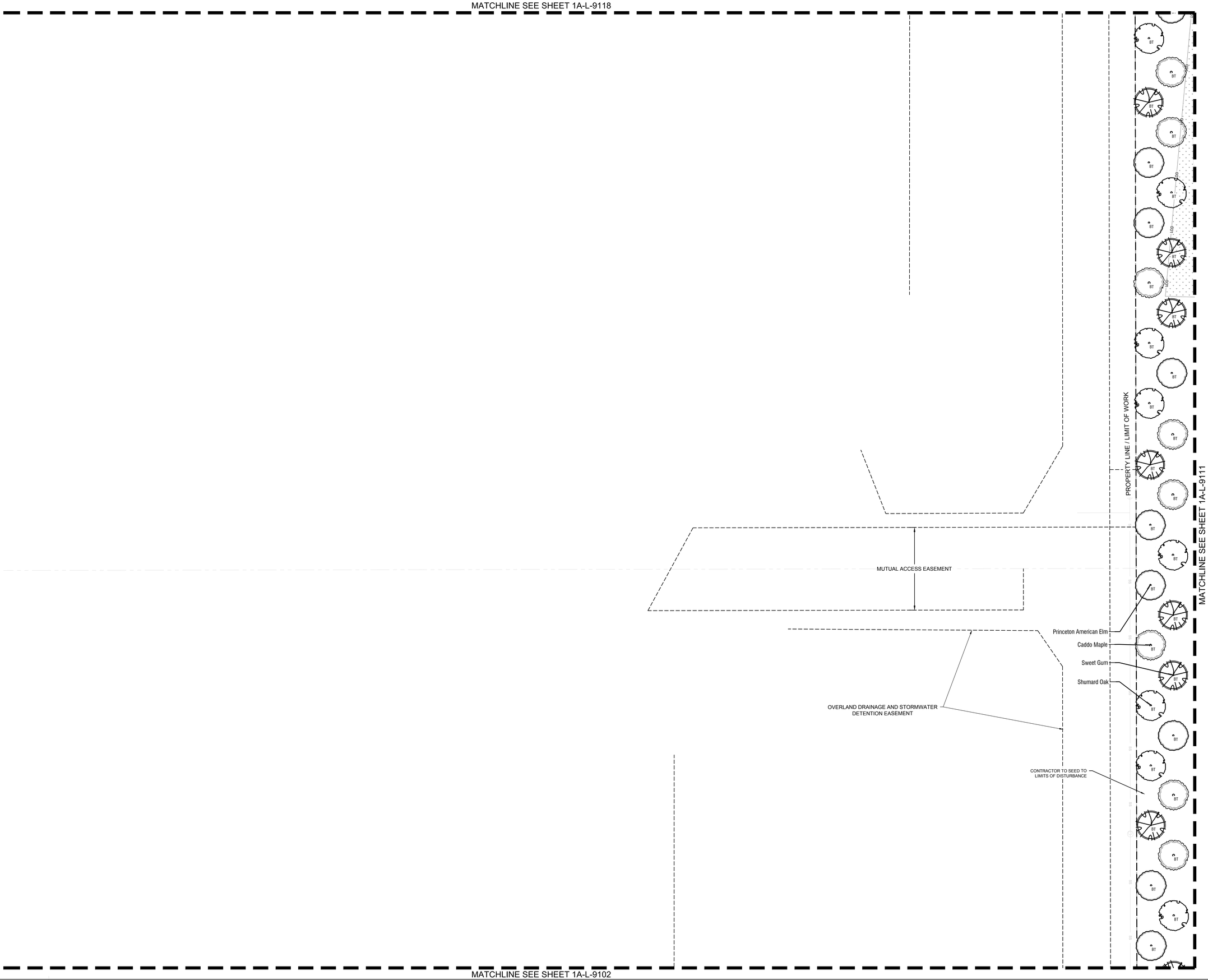
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9106
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9118



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

MATCHLINE SEE SHEET 1A-L-9102

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STATE OF OKLAHOMA — DARRAN SCOTT #302 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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KEYPLAN

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			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9110

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9119

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

SEED

PROPERTY LINE / LIMIT OF WORK

LOD

BT

Princeton American Elm

Caddo Maple

Sweet Gum

Shumard Oak

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal
SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

OUTFALL, REF. CIVIL PLANS

CONCRETE PAVING, REF. CIVIL PLANS

PERIMETER FENCE, REF. CIVIL PLANS

LIGHT POLE, REF. ELECTRIC PLANS

PROPERTY LINE

PROPOSED MAIN ENTRANCE

SIDEWALK, AND BARRIER-FREE RAMPS, REF. CIVIL PLANS

GUARD SHACK

PARKING

SOD

GRAVEL PATH, REF. CIVIL PLANS

LIMIT OF WORK

STOP

N

0' 10' 20' 40'
SCALE IN FEET

MATCHLINE SEE SHEET 1A-L-9110

MATCHLINE SEE SHEET 1A-L-9112

MATCHLINE SEE SHEET 1A-L-9103

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9101 LANDSCAPE PLAN 4/1/2026 3:39 PM

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TULSA, OK 74119
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DARRAN SCOTT #362 STATE OF OKLAHOMA LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

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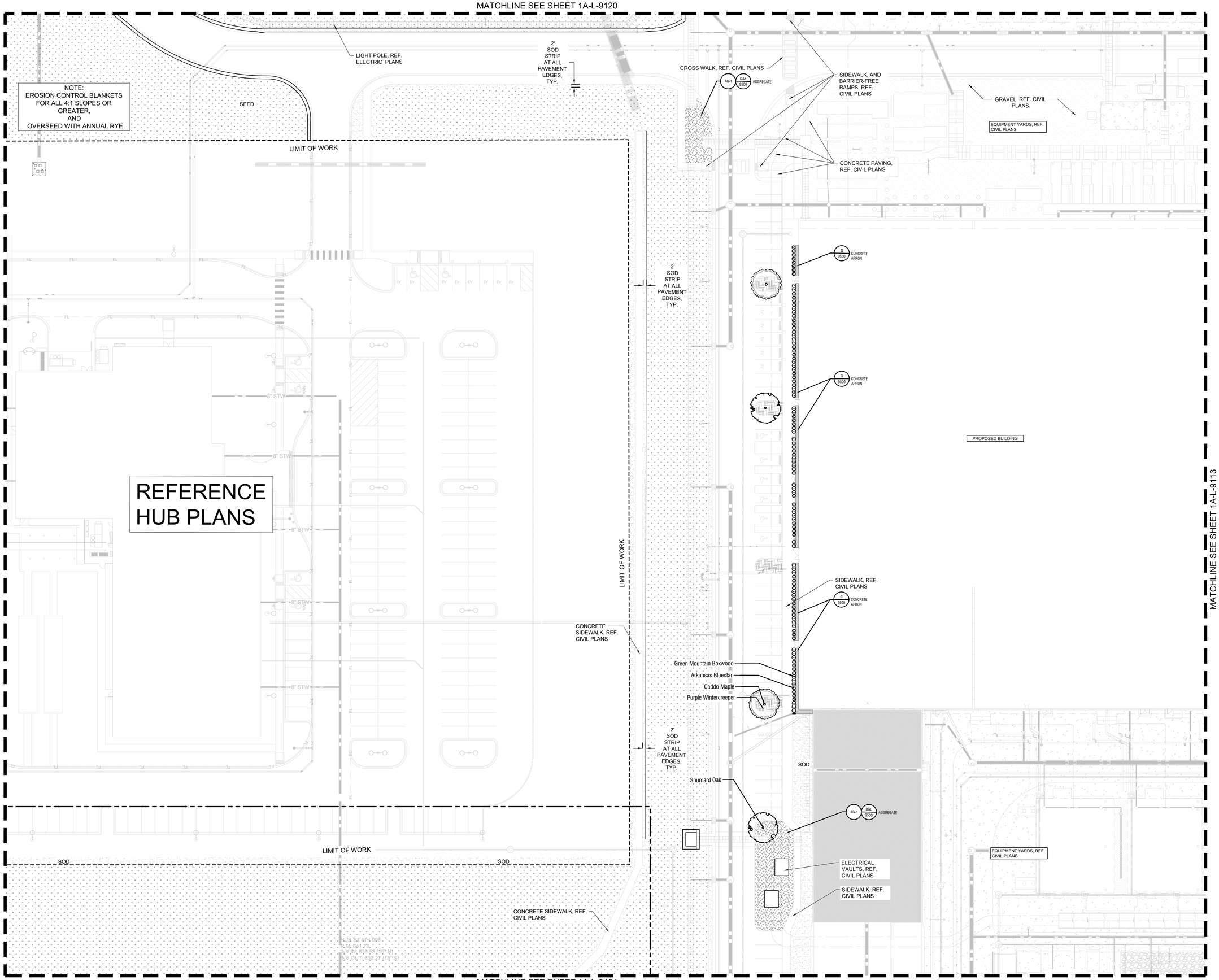
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9111
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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HDR, INC.
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Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
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(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
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KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

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PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9112
PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9121

MATCHLINE SEE SHEET 1A-L-9112

MATCHLINE SEE SHEET 1A-L-9114

MATCHLINE SEE SHEET 1A-L-9105

EQUIPMENT YARDS, REF. CIVIL PLANS

CONCRETE, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

CONCRETE, REF. CIVIL PLANS

PROPOSED 20' EASEMENT, REF. CIVIL PLANS

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

20' ACCESS ROAD, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

GRAVEL PATH, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

PROPOSED BUILDING

20' ACCESS ROAD, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPERTY LINE

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

PERIMETER FENCE, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

GRAVEL PATH, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

N

0' 10' 20' 40'
SCALE IN FEET

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA
DARIAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
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LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9113

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9122

OUTFALL AND BAFFLE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPOSED 20' EASEMENT, REF. CIVIL PLANS

20' ACCESS ROAD, REF. CIVIL PLANS

OUTFALL AND BAFFLE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

SOD

DETENTION BASIN

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

SOD

OUTFALL, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

CONCRETE SPILLWAY,REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

GRAVEL PATH, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

LOD

PROPOSED PROPERTY EASEMENT

GRAVEL PATH, REF. CIVIL PLANS

PROPOSED 20' EASEMENT

20' ACCESS ROAD, REF. CIVIL PLANS

OUTFALL AND BAFFLE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

OUTFALL AND BAFFLE, REF. CIVIL PLANS

150' ELECTRICAL EASEMENT

EXISTING TREE TO REMAIN, TYP.

EXISTING TREE TO REMAIN, TYP.

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

MATCHLINE SEE SHEET 1A-L-9113

MATCHLINE SEE SHEET 01A-L-9106

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARRAN SCOTT
#302
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9114

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9125

LIMIT OF WORK

20' WATERLINE EASEMENT

20' WATERLINE EASEMENT

13'-6" ACCESS EASEMENT

NO LANDSCAPE WORK ON THIS SHEET

MATCHLINE SEE SHEET 1A-L-9118

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA — DARIAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9117
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9126

PROPERTY LINE

EXISTING 50' OVH POWER LINE EASEMENT

150' ELECTRICAL EASEMENT

LIMIT OF WORK

17'-6.00" UTILITY EASEMENT

LIMIT OF WORK

MATCHLINE SEE SHEET 1A-L-9117

MATCHLINE SEE SHEET 1A-L-9119

Caddo Maple

Sweet Gum

Shumard Oak

Princeton American Elm

50' LANDSCAPE BUFFER

LIMIT OF WORK

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

OVERLAND DRAINAGE AND STORMWATER DETENTION EASEMENT

MATCHLINE SEE SHEET 1A-L-9110

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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DARRAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9118

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9127

LIGHT POLE, REF. ELECTRIC PLANS

PROPERTY LINE

EXISTING 50' OVH POWER LINE EASEMENT

150' ELECTRICAL EASEMENT

PERIMETER FENCE, REF. CIVIL PLANS

LIMIT OF WORK

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

MATCHLINE SEE SHEET 1A-L-9118

MATCHLINE SEE SHEET 1A-L-9120

PERIMETER FENCE, REF. CIVIL PLANS

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

MATCHLINE SEE SHEET 1A-L-9111

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9119

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9128

PROPERTY LINE

EXISTING 50' OVH POWER LINE EASEMENT

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

150' ELECTRICAL EASEMENT

PERUN AREA, REF. CIVIL PLANS

PERUN LIGHTING, REF. ELECTRIC PLANS

PERUN FENCE, REF. CIVIL PLANS

CONCRETE PATH, REF. CIVIL PLANS

Princeton American Elm

AG-1 D&E 9500 AGGREGATE

LIGHT POLE, REF. ELECTRIC PLANS

SIDEWALK, AND BARRIER-FREE RAMPS, REF. CIVIL PLANS

CROSS WALK, REF. CIVIL PLANS

CONCRETE, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

MATCHLINE SEE SHEET 1A-L-9119

MATCHLINE SEE SHEET 1A-L-9121

MATCHLINE SEE SHEET 1A-L-9112

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA — DARRAN SCOTT — #362 — REGISTERED LANDSCAPE ARCHITECT
04/03/2026

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PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9120

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9129

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

PERUN FENCE, REF. CIVIL PLANS

PERUN LIGHTING, REF. ELECTRIC PLANS

PERUN FENCE, REF. CIVIL PLANS

PERUN AREA, REF. CIVIL PLANS

10' ACCESS ROAD, REF. CIVIL PLANS

PROPOSED 20' EASEMENT

GRAVEL PATH, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

PROPOSED TEMPORARY SUBSTATION

PERIMETER FENCE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

LIGHT POLE, REF. ELECTRIC PLANS

PROPERTY LINE

GRAVEL PATH, REF. CIVIL PLANS

20' ACCESS ROAD, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

150' ELECTRICAL EASEMENT

EXISTING 50' OVH POWER LINE EASEMENT

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

CONCRETE PATH, REF. CIVIL PLANS

SEED

PERIMETER FENCE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPOSED 20' EASEMENT

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPERTY LINE

PROPERTY LINE

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

EQUIPMENT YARDS, REF. CIVIL PLANS

EQUIPMENT YARDS, REF. CIVIL PLANS

MATCHLINE SEE SHEET 1A-L-9120

MATCHLINE SEE SHEET 1A-L-9123

MATCHLINE SEE SHEET 1A-L-9113

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA — DARRIAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
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KEYPLAN

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9121

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9130

MATCHLINE SEE SHEET 1A-L-9121

MATCHLINE SEE SHEET 1A-L-9114

PROPOSED TEMPORARY SUBSTATION

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

150' ELECTRICAL EASEMENT

EXISTING 50' OVH POWER LINE EASEMENT

PROPERTY LINE

EXISTING TREE TO REMAIN, TYP.

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

PROPOSED PROPERTY EASEMENT

GRAVEL PATH, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

DETENTION BASIN

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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HDR, INC.
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OMAHA, NE 68106
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KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #302 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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ISSUE FOR CONSTRUCTION

KEYPLAN

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9122

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

Landscape and Tree Preservation Plans

MATCHLINE SEE SHEET 1A-L-9133

N. YALE AVE. / WHIRLPOOL DR.

PROPERTY LINE / LIMIT OF WORK

PROPERTY LINE

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

-Existing Tree To Remain-

Caddo Maple

Sweet Gum

20' WATERLINE EASEMENT

Shumard Oak

Princeton American Elm

20' WATERLINE EASEMENT

150' LANDSCAPE BUFFER

13'-6" ACCESS EASEMENT

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

BT

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

PROPOSED DRIVEWAY, REF. CIVIL PLANS

100'

MATCHLINE SEE SHEET 1A-L-9126

PROPERTY LINE

PROPERTY LINE

N

0' 10' 20' 40'
SCALE IN FEET

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

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LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9125
PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9134

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

SEED

PROPOSED SUBSTATION

OUTFALL, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

PROPERTY LINE

LOD

MATCHLINE SEE SHEET 1A-L-9125

MATCHLINE SEE SHEET 1A-L-9127

MATCHLINE SEE SHEET 1A-L-9118

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylo	SOD	

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARWIN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
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LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9126

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9135

MATCHLINE SEE SHEET 1A-L-9126

MATCHLINE SEE SHEET 1A-L-9128

MATCHLINE SEE SHEET 1A-L-9119

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PERIMETER FENCE, REF. CIVIL PLANS

LIGHT POLE, REF. ELECTRIC PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

CONCRETE PATH, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

PERIMETER FENCE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

SEED

SEED

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARIAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9127

PAPER SIZE: E (36"x48")
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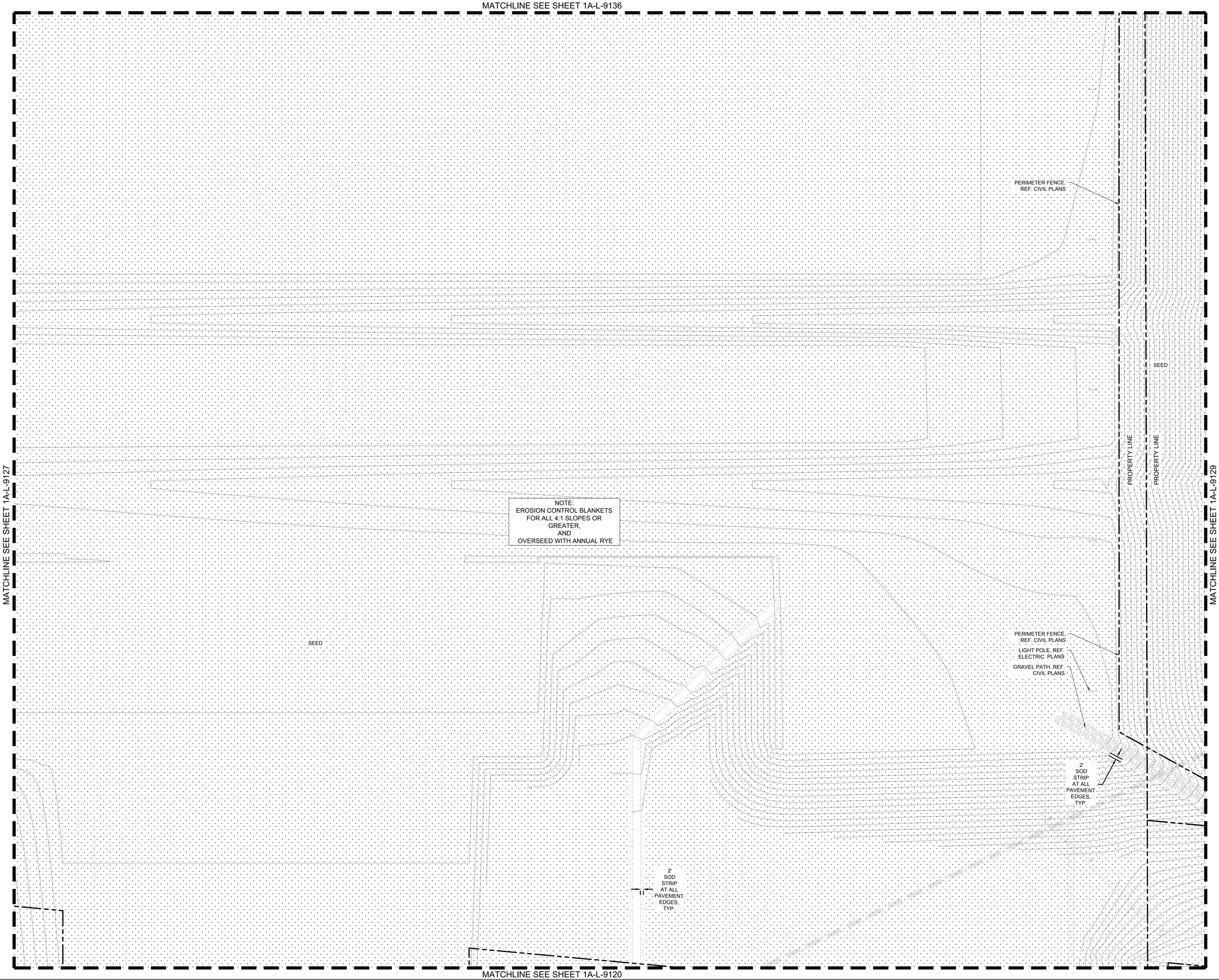
CYL-1A-SITE LAYOUT-PH1|C-FENC-SECR



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA
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LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9128
PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9137

MATCHLINE SEE SHEET 1A-L-9128

MATCHLINE SEE SHEET A1-L-9130

MATCHLINE SEE SHEET 1A-L-9121

PROPOSED PROPERTY EASEMENT

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

SOD

OUTFALL, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPOSED PROPERTY EASEMENT

CONTRACTOR TO SEED ALL DISTURBED AREAS UNTIL ESTABLISHMENT, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

DETENTION BASIN

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

CONCRETE SPILLWAY, REF. CIVIL PLANS

SOD

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

PROPOSED PROPERTY EASEMENT

OUTFALL, REF. CIVIL PLANS

SOD

PROPERTY LINE

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

GRAVEL PATH, REF. CIVIL PLANS

PERIMETER FENCE, REF. CIVIL PLANS

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

SEED

PROPOSED PROPERTY EASEMENT

PROPOSED 20' EASEMENT

GRAVEL PATH, REF. CIVIL PLANS

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
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LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9129

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9129

NOTE:
EROSION CONTROL BLANKETS
FOR ALL 4:1 SLOPES OR
GREATER,
AND
OVERSEED WITH ANNUAL RYE

2'
SOD
STRIP
AT ALL
PAVEMENT
EDGES,
TYP.

GRAVEL PATH, REF.
CIVIL PLANS

PROPOSED PROPERTY
EASEMENT

PROPERTY LINE

PROPERTY LINE

EXISTING TREE
MASSING, TO REMAIN,
TYP.

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

MATCHLINE SEE SHEET 1A-L-9122

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARRAN SCOTT
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LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9130
PAPER SIZE: E (36"x48")
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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylo	SOD	

LEGEND:
BT - BUFFER TREE

PROPERTY LINE / LIMIT OF WORK

150' LANDSCAPE BUFFER

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

EXISTING TREES TO REMAIN, TYP.

N. YALE AVE. / WHIRLPOOL DR.

PROPERTY LINE / LIMIT OF WORK

MATCHLINE SEE SHEET 1A-L-9134

Sweet Gum

Shumard Oak

Princeton American Elm

Caddo Maple

PROPERTY LINE

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

MATCHLINE SEE SHEET 1A-L-9125

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA · DARIAN SCOTT · #362 · LICENSED LANDSCAPE ARCHITECT
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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9133

PAPER SIZE: E (36"x48")
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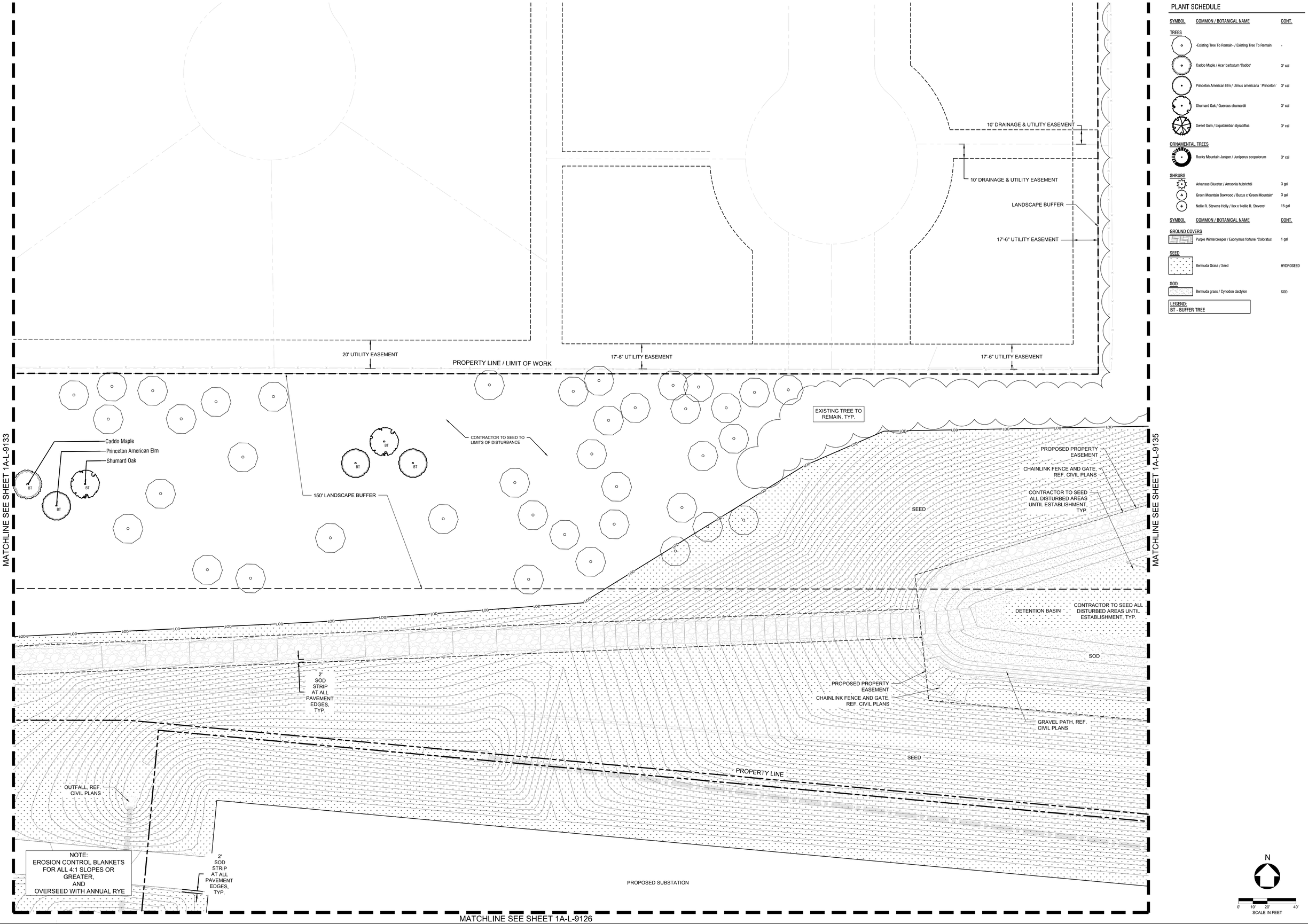

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA — DARRAN SCOTT — #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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			DAS

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PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9134

PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9143

EXISTING TREE TO REMAIN, TYP.

SOD

CONCRETE SPILLWAY, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

OUTFALL, REF. CIVIL PLANS

PROPOSED PROPERTY EASEMENT

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER,
AND
OVERSEED WITH ANNUAL RYE

GRAVEL PATH, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

OUTFALL, REF. CIVIL PLANS

CONTRACTOR TO SEED ALL DISTURBED AREAS UNTIL ESTABLISHMENT, TYP.

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

PERIMETER FENCE, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

DETENTION BASIN

SEED

PROPOSED PROPERTY EASEMENT

CONTRACTOR TO SEED ALL DISTURBED AREAS UNTIL ESTABLISHMENT, TYP.

OUTFALL, REF. CIVIL PLANS

GRAVEL PATH, REF. CIVIL PLANS

CHAINLINK FENCE AND GATE, REF. CIVIL PLANS

PROPOSED PROPERTY EASEMENT

PERIMETER FENCE, REF. CIVIL PLANS

PROPERTY LINE

SEED

OUTFALL AND BAFFLE, REF. CIVIL PLANS

PERIMETER FENCE, REF. CIVIL PLANS

LIGHT POLE, REF. ELECTRIC PLANS

SEED

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

PROPERTY LINE

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

LIGHT POLE, REF. ELECTRIC PLANS

SEED

PERIMETER FENCE, REF. CIVIL PLANS

PROPERTY LINE

MATCHLINE SEE SHEET 1A-L-9134

MATCHLINE SEE SHEET 1A-L-9136

MATCHLINE SEE SHEET 1A-L-9127

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
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TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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KEYPLAN

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APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9135
PAPER SIZE: E (36"x48")
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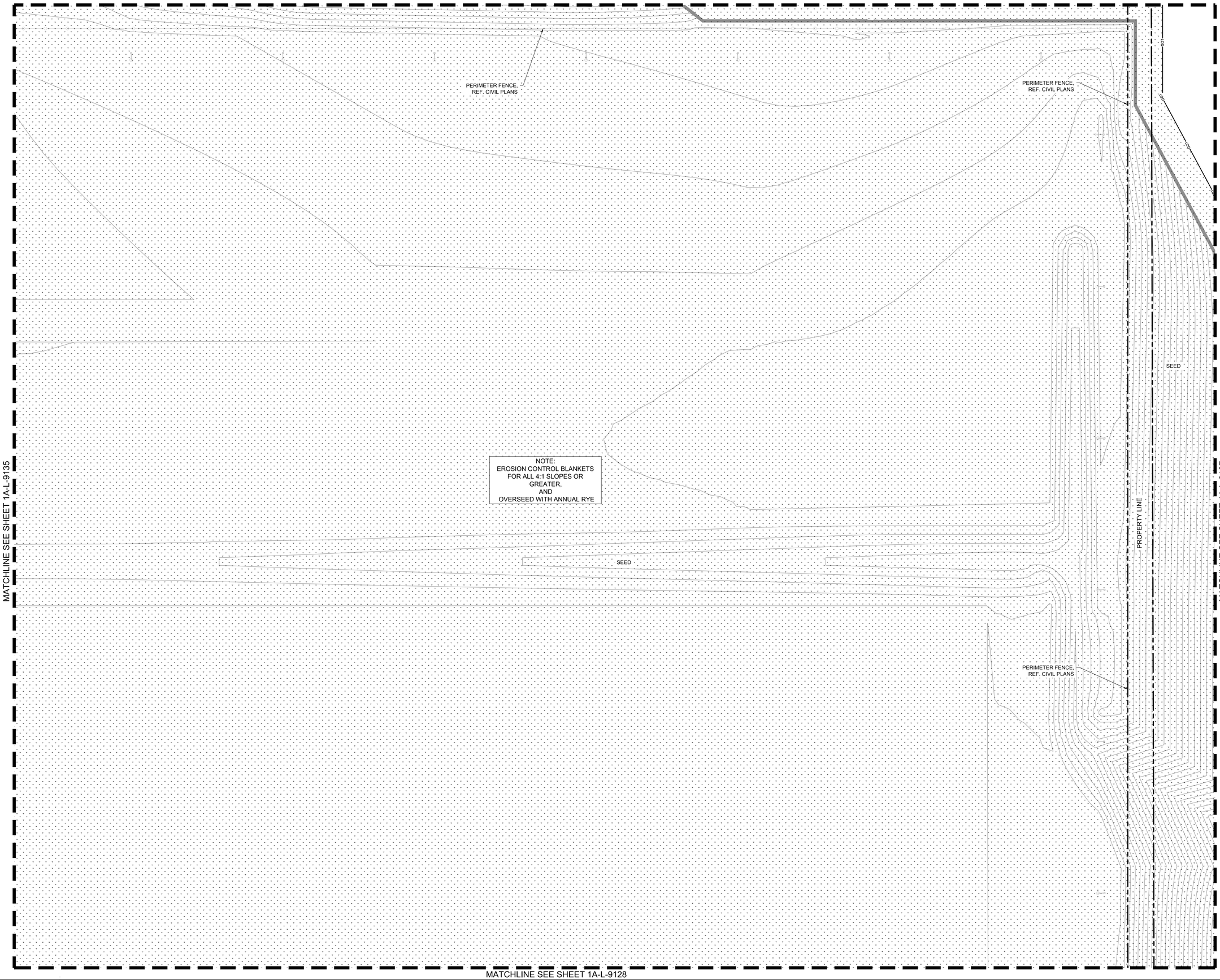

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

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NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

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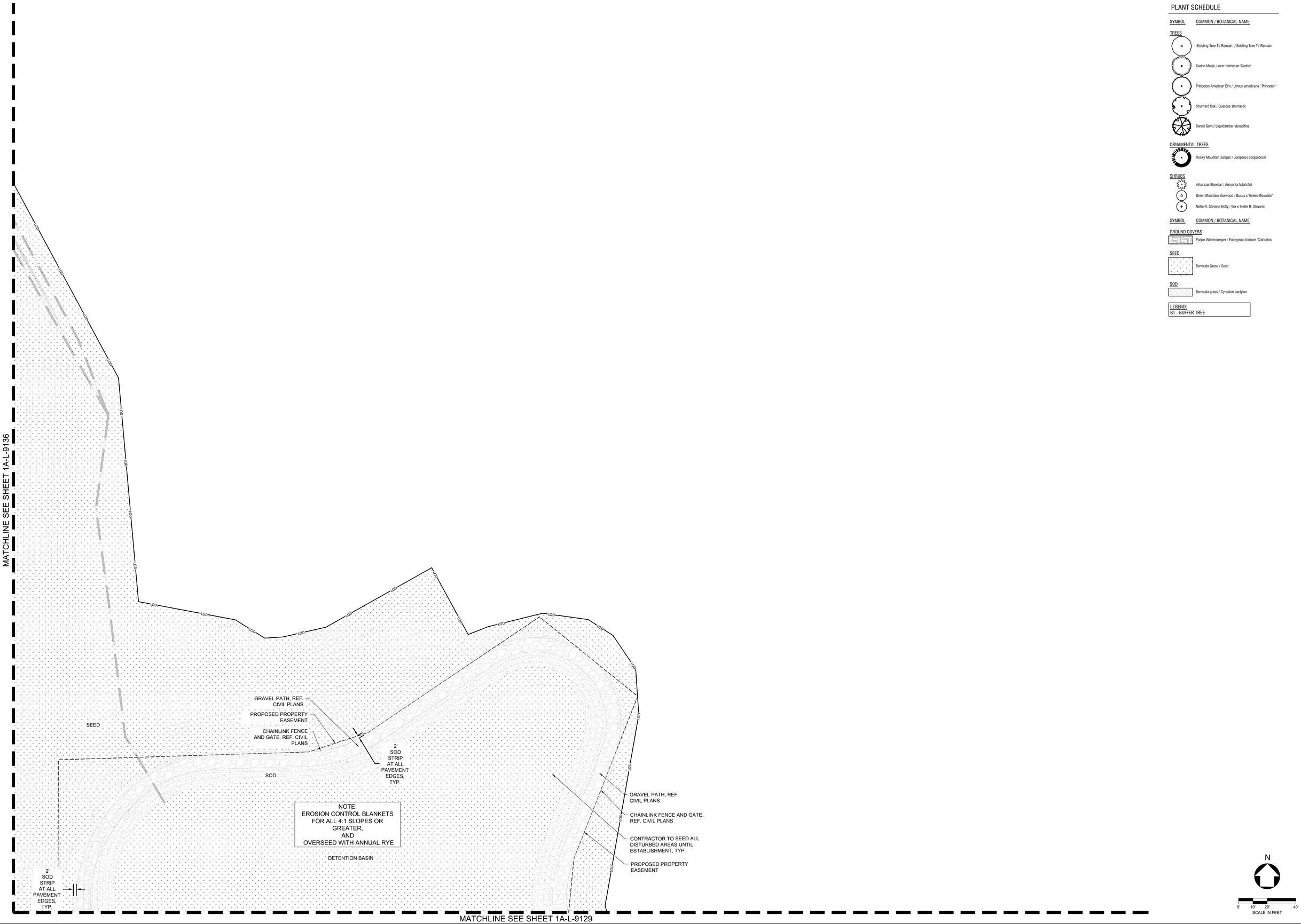
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9136
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME
TREES	
	-Existing Tree To Remain- / Existing Tree To Remain
	Caddo Maple / Acer barbatum 'Caddo'
	Princeton American Elm / Ulmus americana `Princeton`
	Shumard Oak / Quercus shumardii
	Sweet Gum / Liquidambar styraciflua
ORNAMENTAL TREES	
	Rocky Mountain Juniper / Juniperus scopulorum
SHRUBS	
	Arkansas Bluestar / Amsonia hubrichtii
	Green Mountain Boxwood / Buxus x 'Green Mountain'
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'

SYMBOL	COMMON / BOTANICAL NAME
GROUND COVERS	
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'
SEED	
	Bermuda Grass / Seed
SOD	
	Bermuda grass / Cynodon dactylon

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9137

PAPER SIZE: E (36"x48")
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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

EXISTING TREE TO REMAIN, TYP.

PROPERTY LINE

LANDSCAPE BUFFER

2' SOD STRIP AT ALL PAVEMENT EDGES, TYP.

OUTFALL AND BAFFLE, REF. CIVIL PLANS

SEED

CONTRACTOR TO SEED TO LIMITS OF DISTURBANCE

NOTE:
EROSION CONTROL BLANKETS FOR ALL 4:1 SLOPES OR GREATER, AND OVERSEED WITH ANNUAL RYE

LOD

MATCHLINE SEE SHEET 1A-L-9144

MATCHLINE SEE SHEET 1A-L-9135

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT — 04/03/2026

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PROJECT ADDRESS:
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PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9143

PAPER SIZE: E (36"x48")
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PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

MATCHLINE SEE SHEET 1A-L-9143

OUTFALL, REF. CIVIL PLANS

PROPERTY LINE

LOD

MATCHLINE SEE SHEET 1A-L-9136

N

0' 10' 20' 40'
SCALE IN FEET

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DARRAN SCOTT #362 STATE OF OKLAHOMA LICENSED LANDSCAPE ARCHITECT
04/03/2026

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PROJ. NO.: 10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9144
PAPER SIZE: E (36"x48")
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MATCHLINE SEE SHEET 1A-L-9166

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

EXISTING TREE TO REMAIN, TYP.

N

0' 10' 20' 40'
SCALE IN FEET

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STATE OF OKLAHOMA
DARRAN SCOTT
#302
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9158

PAPER SIZE: E (36"x48")
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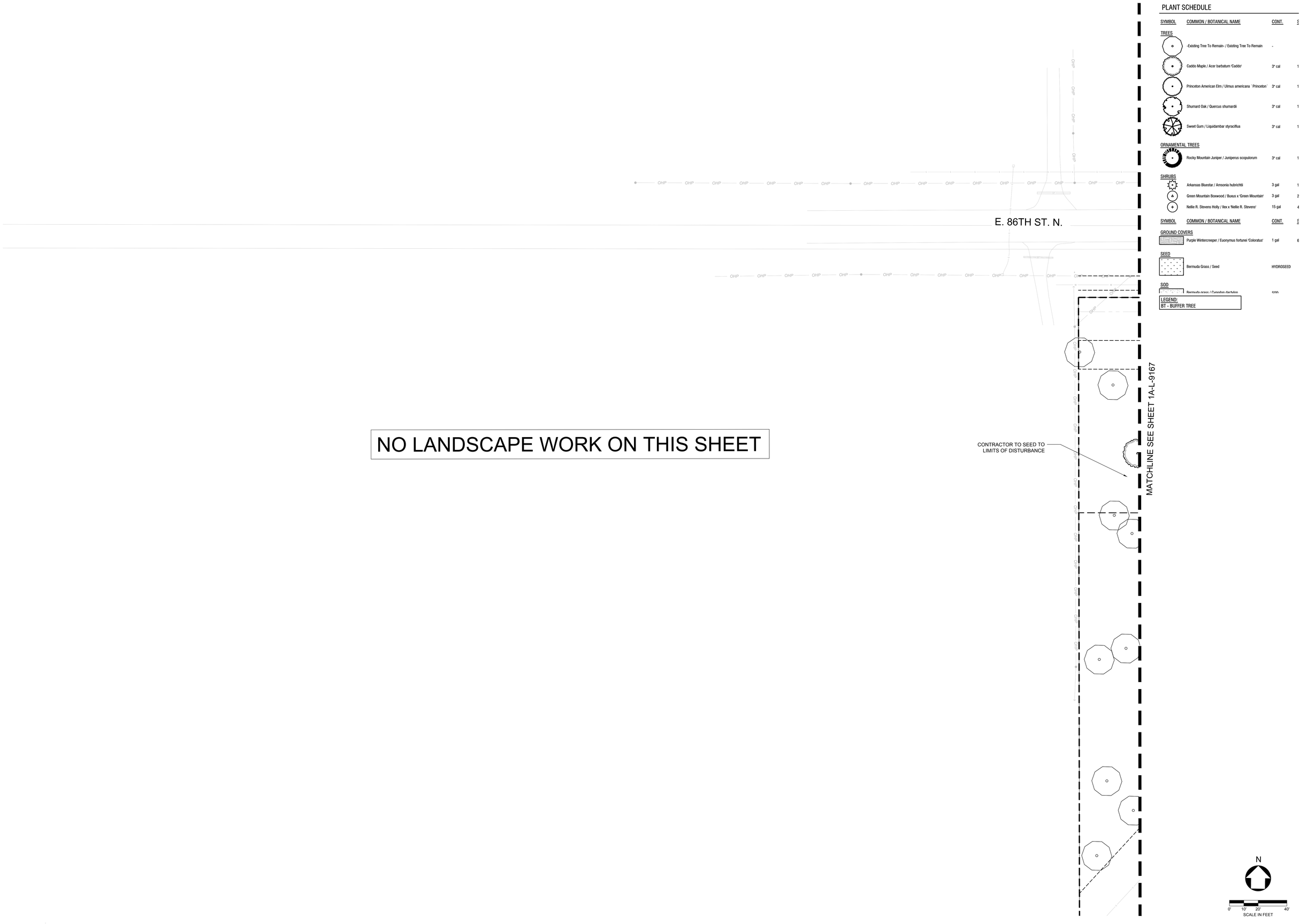

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylo	SOD	

LEGEND:
BT - BUFFER TREE

NO LANDSCAPE WORK ON THIS SHEET

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1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

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CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9166

PAPER SIZE: E (36"x48")
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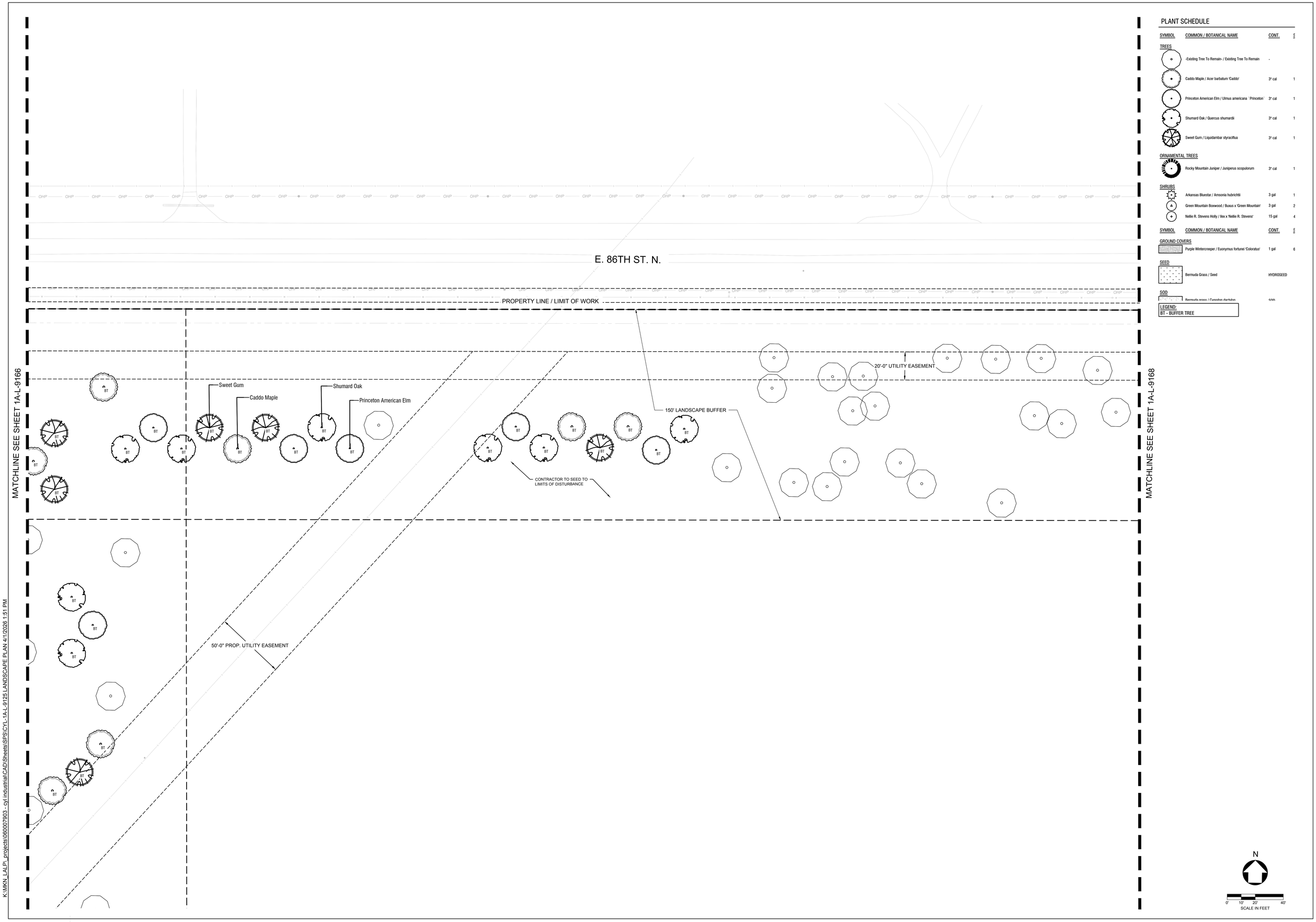

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylon	SOD	

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA
DARRAN SCOTT
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LICENSED LANDSCAPE ARCHITECT
04/03/2026

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PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

LANDSCAPE PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9167
PAPER SIZE: E (36"x48")
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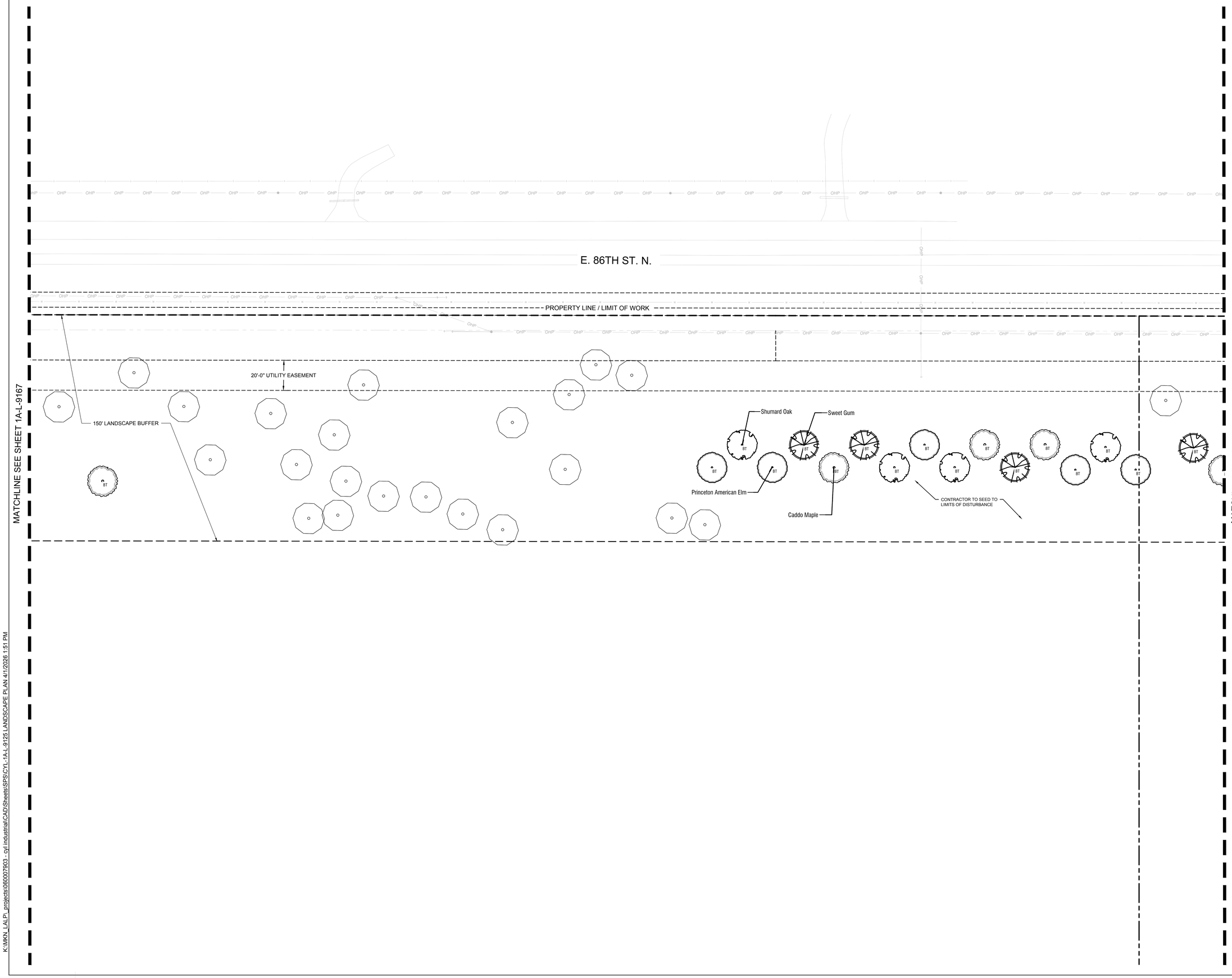

PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
TREES			
	-Existing Tree To Remain- / Existing Tree To Remain	-	
	Caddo Maple / Acer barbatum 'Caddo'	3" cal	1
	Princeton American Elm / Ulmus americana `Princeton`	3" cal	1
	Shumard Oak / Quercus shumardii	3" cal	1
	Sweet Gum / Liquidambar styraciflua	3" cal	1
ORNAMENTAL TREES			
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal	1
SHRUBS			
	Arkansas Bluestar / Amsonia hubrichtii	3 gal	1
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal	2
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal	4
SYMBOL	COMMON / BOTANICAL NAME	CONT.	S
GROUND COVERS			
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal	6
SEED			
	Bermuda Grass / Seed	HYDROSEED	
SOD			
	Bermuda grass / Cynodon dactylo	SOD	

LEGEND:
BT - BUFFER TREE

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STATE OF OKLAHOMA · DARRIAN SCOTT · #362 · LICENSED LANDSCAPE ARCHITECT
04/03/2026

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KEYPLAN

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APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9168

PAPER SIZE: E (36"x48")
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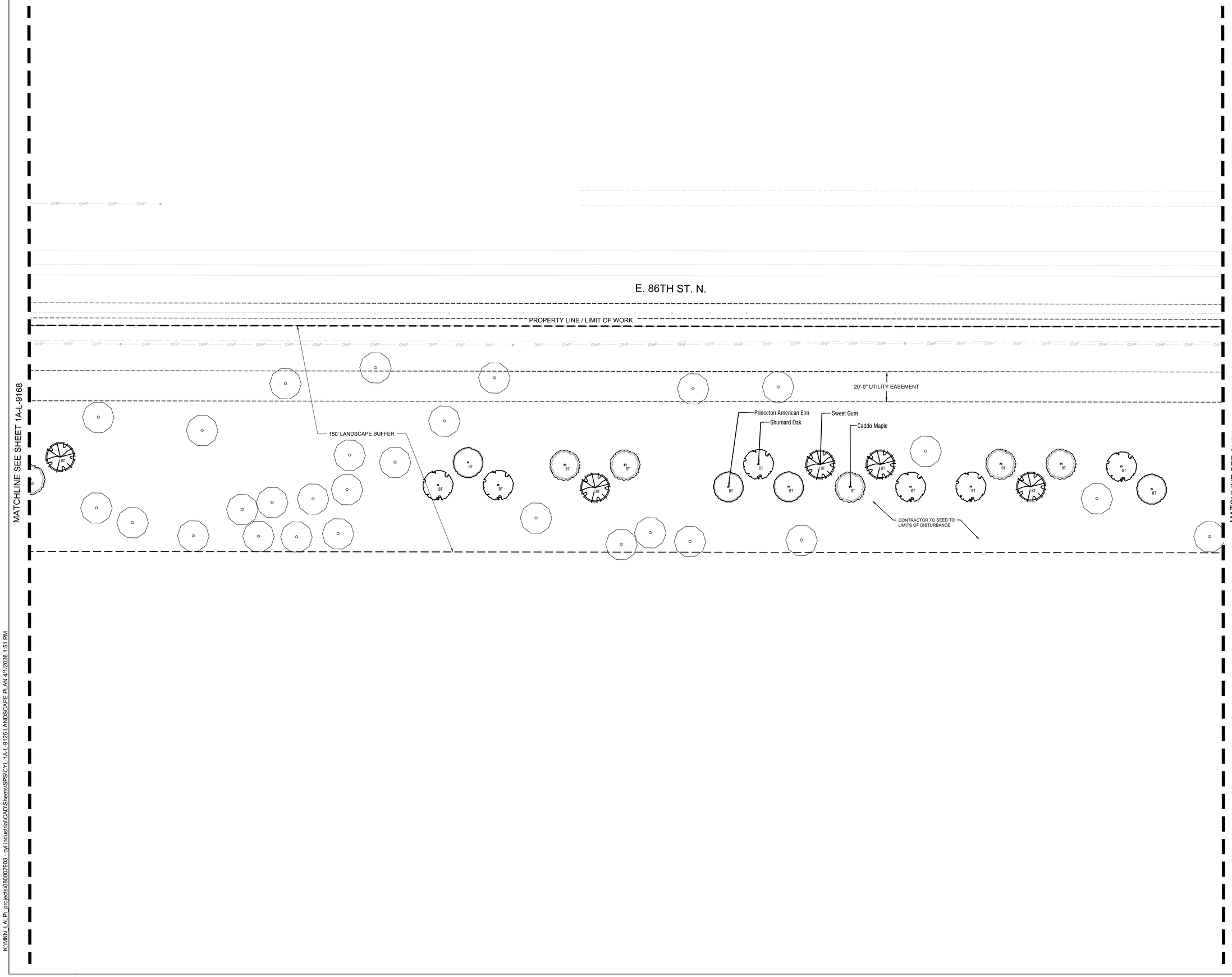


PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9125 LANDSCAPE PLAN 4/1/2026 1:51 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

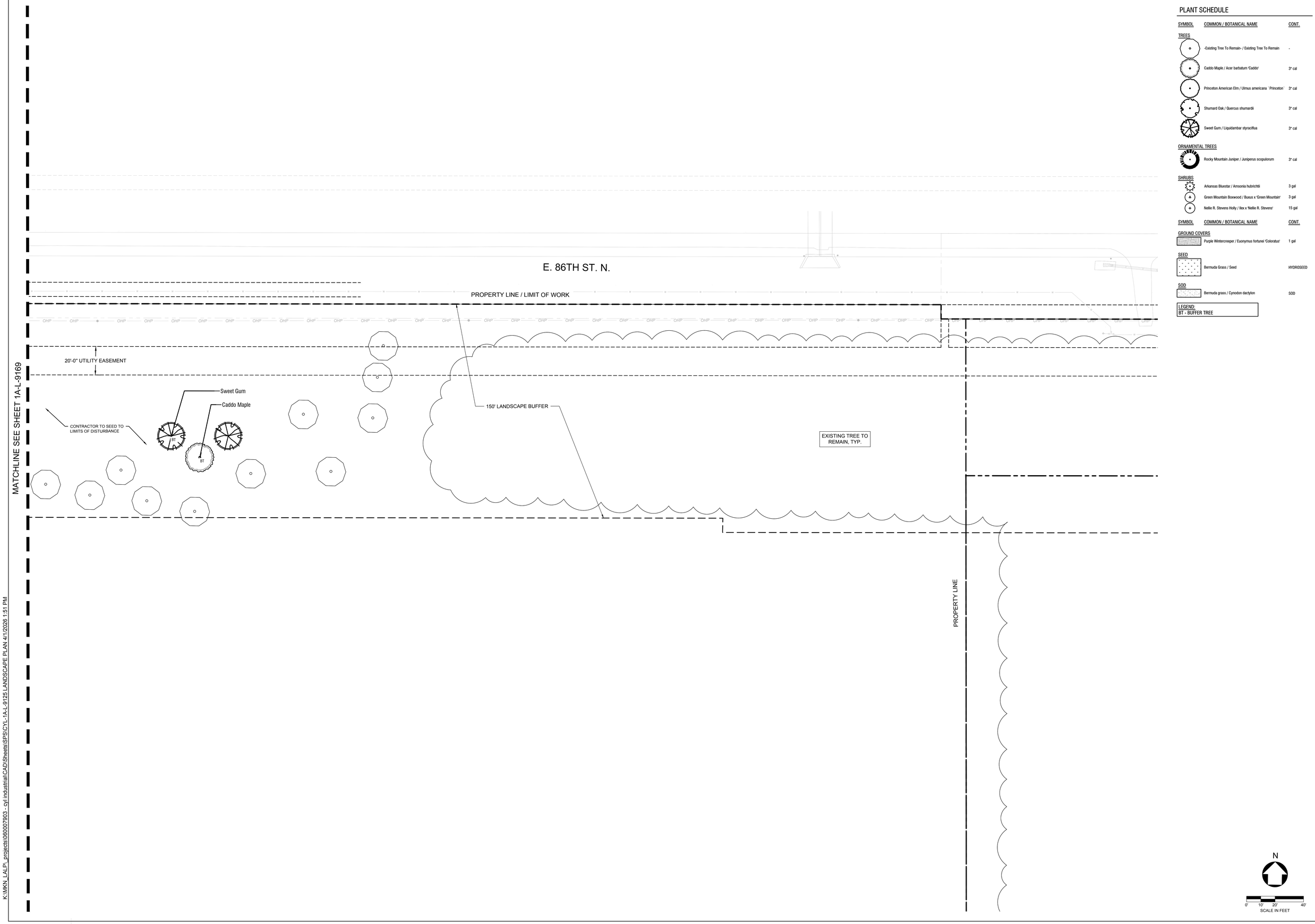
PROJ. NO.: 10434525

LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9169

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



PLANT SCHEDULE

SYMBOL	COMMON / BOTANICAL NAME	CONT.
TREES		
	-Existing Tree To Remain- / Existing Tree To Remain	-
	Caddo Maple / Acer barbatum 'Caddo'	3" cal
	Princeton American Elm / Ulmus americana `Princeton`	3" cal
	Shumard Oak / Quercus shumardii	3" cal
	Sweet Gum / Liquidambar styraciflua	3" cal
ORNAMENTAL TREES		
	Rocky Mountain Juniper / Juniperus scopulorum	3" cal
SHRUBS		
	Arkansas Bluestar / Amsonia hubrichtii	3 gal
	Green Mountain Boxwood / Buxus x 'Green Mountain'	3 gal
	Nellie R. Stevens Holly / Ilex x 'Nellie R. Stevens'	15 gal

SYMBOL	COMMON / BOTANICAL NAME	CONT.
GROUND COVERS		
	Purple Wintercreeper / Euonymus fortunei 'Coloratus'	1 gal
SEED		
	Bermuda Grass / Seed	HYDROSEED
SOD		
	Bermuda grass / Cynodon dactylon	SOD

LEGEND:
BT - BUFFER TREE

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9125 LANDSCAPE PLAN 4/1/2026 1:51 PM

HDR, INC.
1917 SOUTH 67th STREET
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STATE OF OKLAHOMA
DARRAN SCOTT
#362
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

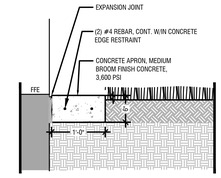
LANDSCAPE PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9170

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

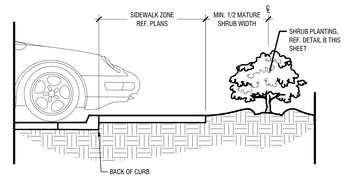
NOTES:
1. ALL PAVING TO MEET SUBGRADE PREPARATION PER GEOTECH REPORT



Concrete Apron @ Building

Scale: 1" = 1'-0"

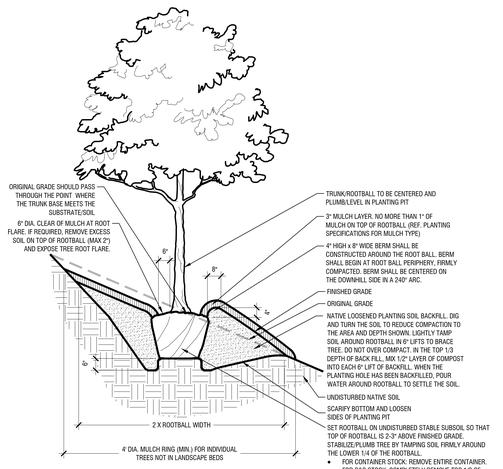
M



Shrub Planting at Sidewalk

Scale: NTS

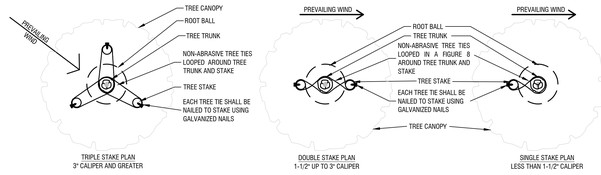
C

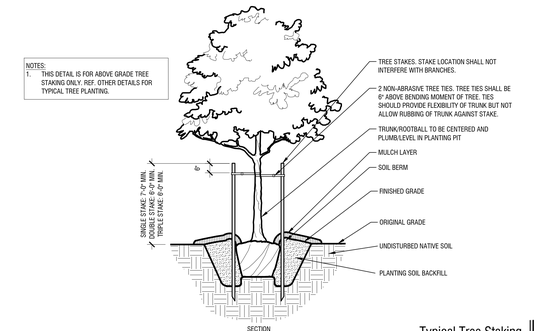


Tree Planting On 5-25% Slopes (20:1 to 4:1 Slopes)

Scale: NTS

G

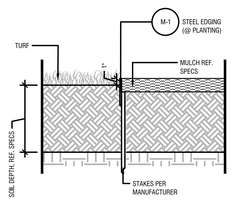




Typical Tree Staking

Scale: NTS

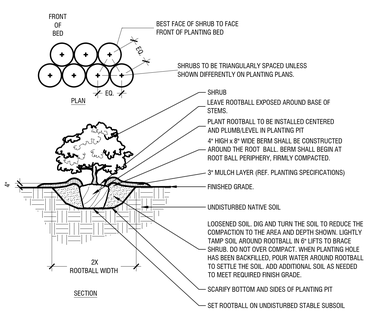
E



Steel Edge

Scale: 1 1/2" = 1'-0"

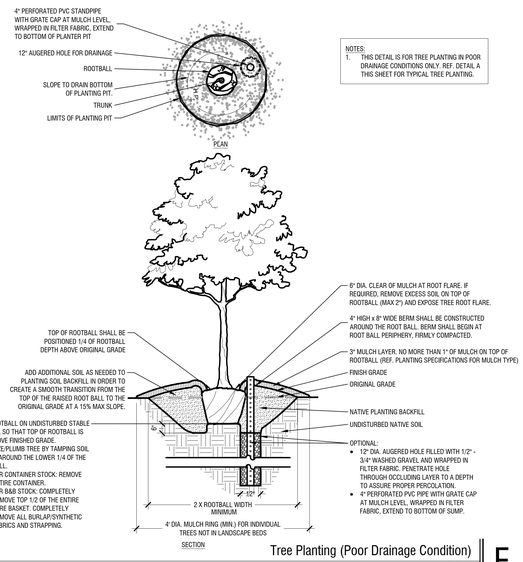
F



Typical Shrub Planting

Scale: NTS

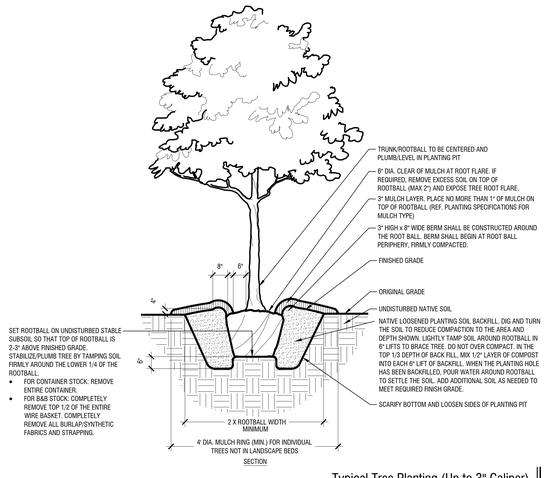
B



Tree Planting (Poor Drainage Condition)

Scale: NTS

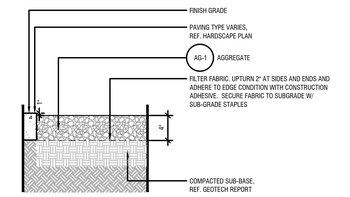
F



Typical Tree Planting (Up to 3" Caliper)

Scale: NTS

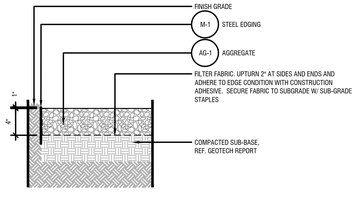
D



Aggregate @ Paving

Scale: 1"=1'-0"

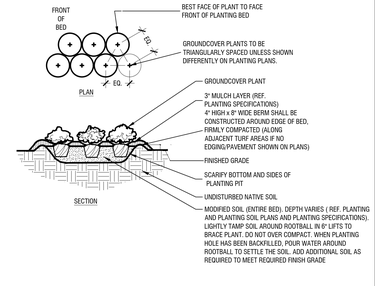
E



Aggregate @ Planting

Scale: 1"=1'-0"

D



Typical Groundcover Planting

Scale: NTS

A

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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KIMLEY-HORN & ASSOCIATES, INC.
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(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	AEA
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
			APPRV'D:
			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

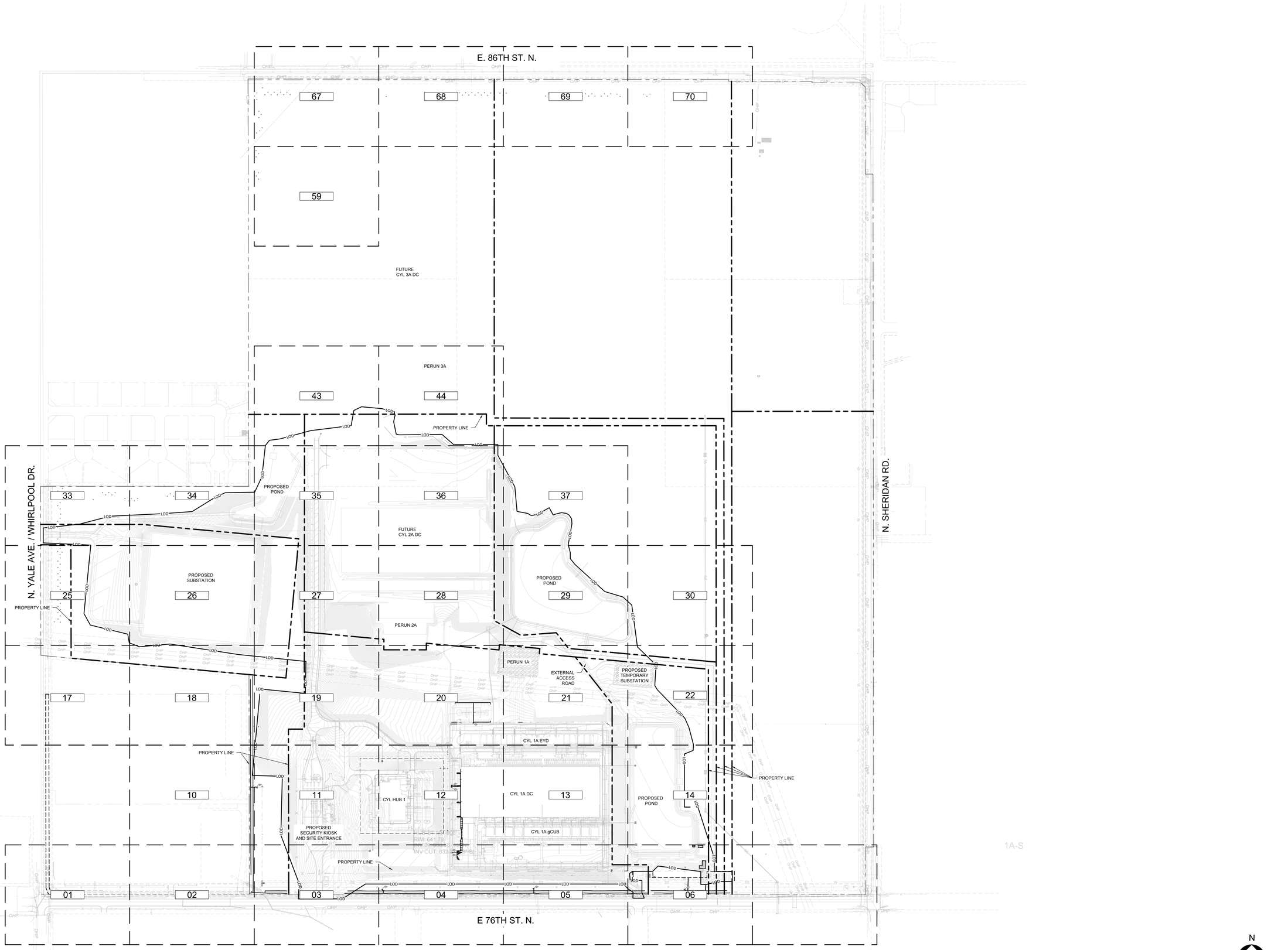
PROJ. NO.:10434525

LANDSCAPE DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9500

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



N

0' 10' 20' 40'

SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRIAN SCOTT
#302
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

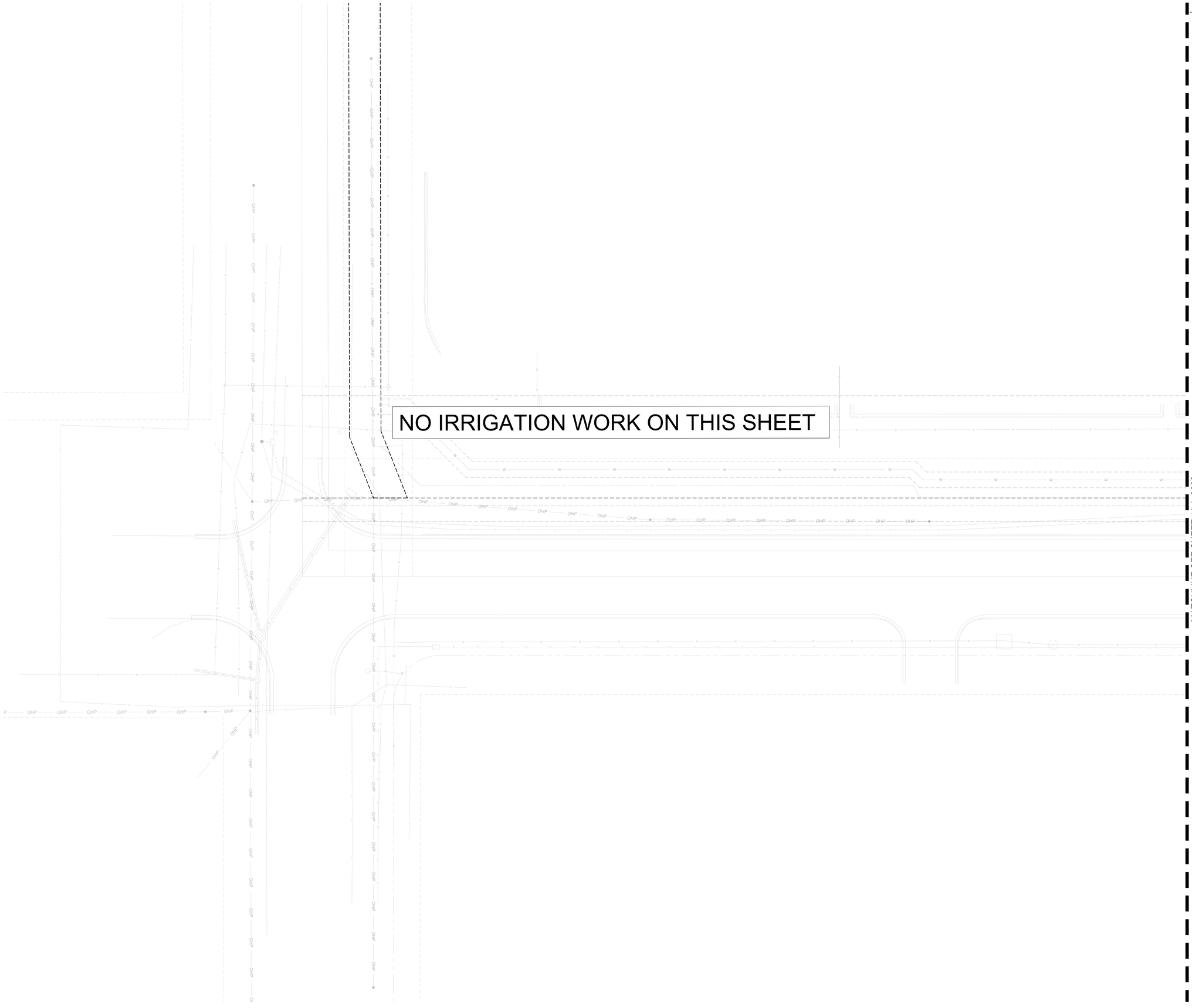
PROJ. NO.:10434525

IRRIGATION OVERALL PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9600

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



NO IRRIGATION WORK ON THIS SHEET

MATCHLINE SEE SHEET 1A-L-9602

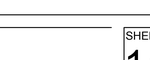
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	36
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZSB010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM	2
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
BF	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.	3
MP	Water Meter 1-1/2" Ref. Civil Plans	1
ME	Water Meter 1-1/2" Ref. Civil Plans	1
MC	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,616 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	6,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

Valve Callout



N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
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TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

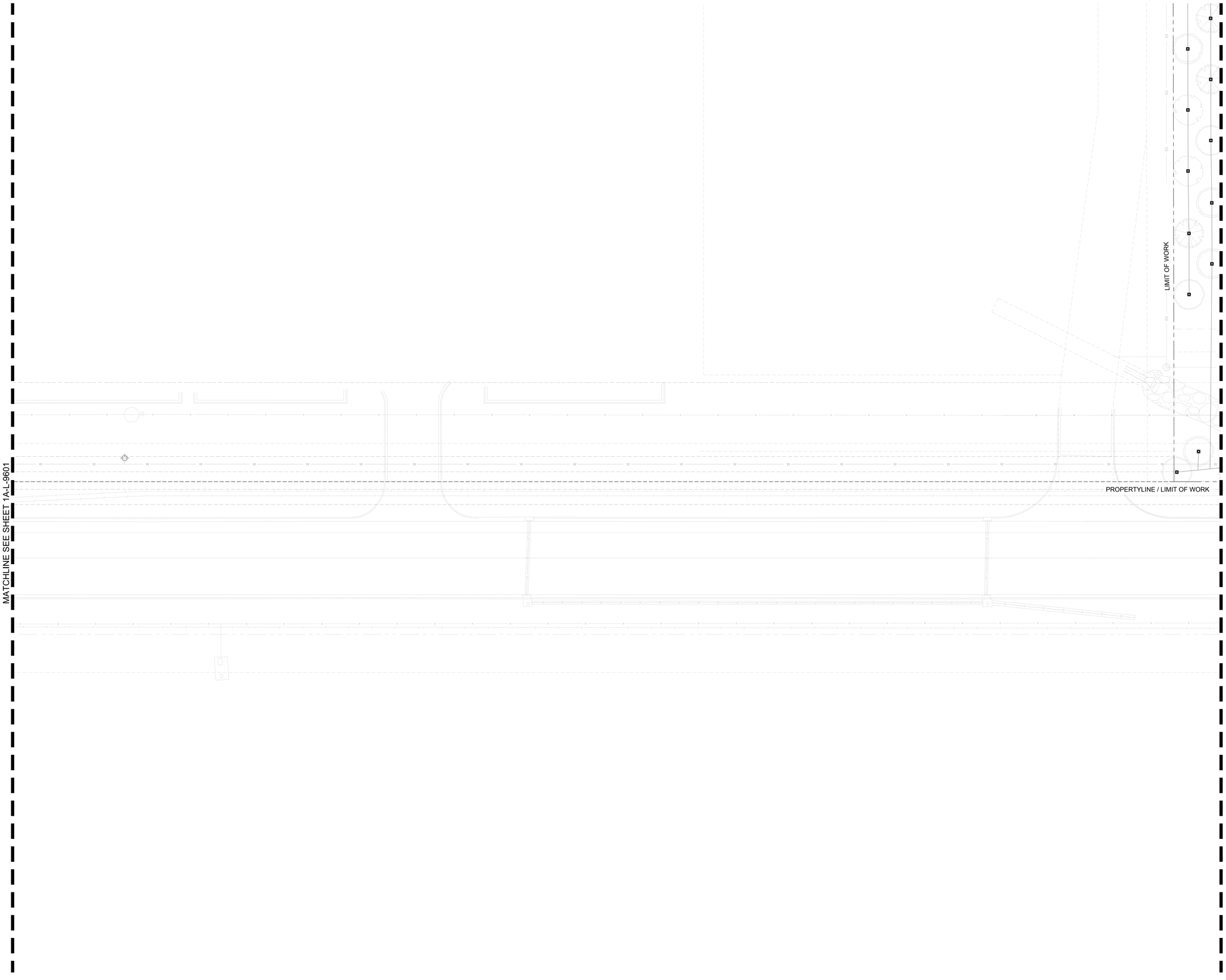
PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9601

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M L H	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser, 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ58010027-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
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MB	Water Meter 1-1/2" Ref. Civil Plans
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	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

N
0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

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1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

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(918) 380-8868

STATE OF OKLAHOMA · DARRAN SCOTT · #362 · LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9602
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9611

MATCHLINE SEE SHEET 1A-L-9602

MATCHLINE SEE SHEET 1A-L-9604

PROPERTY LINE

PROPERTY LINE / LIMIT OF WORK

E. 76TH ST. N.

COORDINATE WITH CONTRACTOR FOR INSTALLATION LOCATION OF IRRIGATION WATER METER AND ASSOCIATED APPURTENANCES (GATE VALVE, BACKFLOW, FLOW SENSOR, MASTER CONTROL VALVE, ETC). EQUIPMENT TO BE PLACED IN GREEN SPACE.

APPROXIMATE CONTROLLER & RAIN SENSOR LOCATION. AVOID OVERHEAD OBSTRUCTIONS AND OVERSPRAY ASSOCIATED WITH RAIN SENSOR. CONTRACTOR TO CONFIRM LOCATION WITH OWNER.

CONTRACTOR SHALL PROVIDE 110/120V, SINGLE PHASE POWER FOR CONTROLLER.

CONTRACTOR SHALL PROVIDE CONNECTION FROM CONTROLLER TO FLOW SENSOR.

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR WILL ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.

CONTRACTOR SHALL LOCATE ALL UTILITIES AND DEPTHS OF UTILITIES PRIOR TO PLANTING AND INSTALLING IRRIGATION. IRRIGATION SHALL NOT BE PLACED DIRECTLY OVER UTILITIES. ANY DAMAGE TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT THE LOCAL GOVERNING AGENCY WITH ANY UTILITY CONFLICTS IN FIELD.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

LOD

OHP

WW

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
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25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser, 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

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CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HRS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
MB	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARIAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

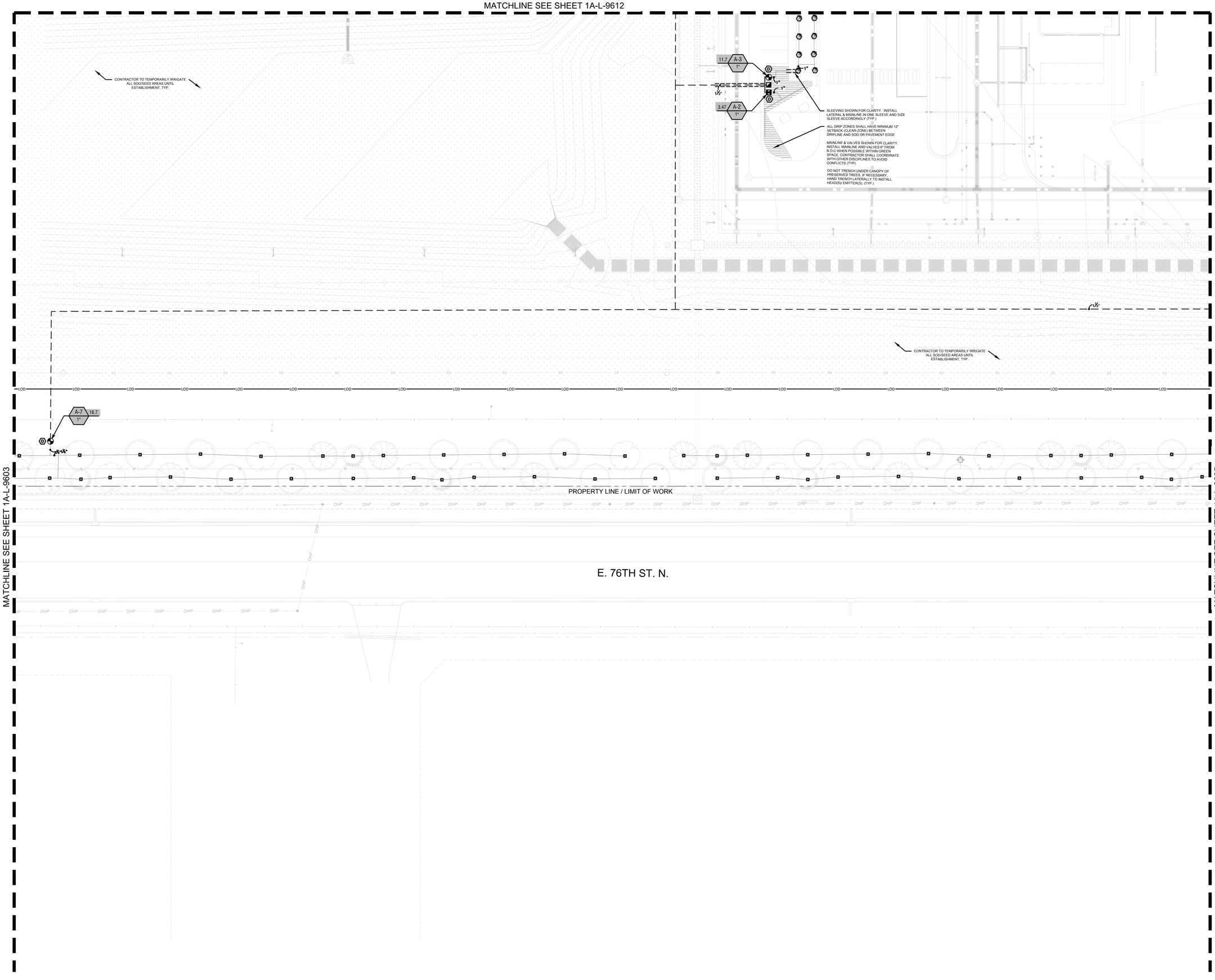
IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9603

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9612



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ580100075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 1ft inches beyond edges of paving or construction.

Valve Callout: # (Valve Number) / # (Valve Flow) / #" (Valve Size)

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARRAN SCOTT #362 STATE OF OKLAHOMA LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9604
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9613

MATCHLINE SEE SHEET 1A-L-9604

MATCHLINE SEE SHEET 1A-L-9606

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

LOD

A-1 33.3 1½"

PROPERTY LINE / LIMIT OF WORK

OHP

E. 76TH ST. N.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ58010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CB	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 1ft inches beyond edges of paving or construction.

Valve Callout: # (Valve Number), # (Valve Flow), #" (Valve Size)

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARRAN SCOTT #362 STATE OF OKLAHOMA LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9605
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9614

MATCHLINE SEE SHEET 1A-L-9605

PROPERTY LINE / LIMIT OF WORK

E. 76TH ST. N.

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

COORDINATE WITH CONTRACTOR FOR INSTALLATION LOCATION OF IRRIGATION WATER METER AND ASSOCIATED APPURTENANCES (GATE VALVE, BACKFLOW, FLOW SENSOR, MASTER CONTROL VALVE, ETC). EQUIPMENT TO BE PLACED IN GREEN SPACE.

APPROXIMATE CONTROLLER & RAIN SENSOR LOCATION . AVOID OVERHEAD OBSTRUCTIONS AND OVERSPRAY ASSOCIATED WITH RAIN SENSOR. CONTRACTOR TO CONFIRM LOCATION WITH OWNER.

CONTRACTOR SHALL PROVIDE 115/120V, SINGLE PHASE POWER FOR CONTROLLER.

CONTRACTOR SHALL PROVIDE CONNECTION FROM CONTROLLER TO FLOW SENSOR.

COORDINATE WITH CONTRACTOR FOR INSTALLATION LOCATION OF IRRIGATION WATER METER AND ASSOCIATED APPURTENANCES (GATE VALVE, BACKFLOW, FLOW SENSOR, MASTER CONTROL VALVE, ETC). EQUIPMENT TO BE PLACED IN GREEN SPACE.

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR WILL ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.

CONTRACTOR SHALL LOCATE ALL UTILITIES AND DEPTHS OF UTILITIES PRIOR TO PLANTING AND INSTALLING IRRIGATION. IRRIGATION SHALL NOT BE PLACED DIRECTLY OVER UTILITIES. ANY DAMAGE TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT THE LOCAL GOVERNING AGENCY WITH ANY UTILITY CONFLICTS IN FIELD.

CONTRACTOR TO PROVIDE SUBCUT FOR FUTURE CONNECTION

C-1 13.5 1"

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO3-04-PR03S-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90—Maroon adj arc, 90 to 210, L—Light Blue 210 to 315 arc, C—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC25B10075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper 7048R, Round Shape (for plants of ~ 24" rootball), Mocha#1044b-A, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-02N-12 TechLine Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Electrically Actuated, Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1-1/2in. to 2in.
	Hunter A2C-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-A2C-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-A2C-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WTS-150 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans

Irrigation Lateral Line: PVC Schedule 40
1" Min.

Irrigation Mainline: PVC Schedule 40
1-1/2" Min.

Pipe Sleeve: PVC Schedule 40
Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

View Callout
Sheet Number
Detail Number
Sheet Area
Detail Area

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
CERTIFIED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9606
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl Industrial\CAD\Sheets\SPS\CYL-1A-L-9606 IRRIGATION PLAN 3/9/2026 10:09 AM

MATCHLINE SEE SHEET 1A-L-9618

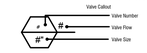
IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS8010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout



LIMIT OF WORK

MATCHLINE SEE SHEET 1A-L-9612

MATCHLINE SEE SHEET 1A-L-9602

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARRAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9610
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9619

MATCHLINE SEE SHEET 1A-L-9610

LIMIT OF WORK

LOD

B-1
1½"
34.2

2"
1½"
1"
2"

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS8010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CB	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
MB	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
- Valve Number
- Valve Flow
- Valve Size

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

PROPOSED SECURITY KIOSK AND SITE ENTRANCE

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

STOP

MATCHLINE SEE SHEET 1A-L-9612

MATCHLINE SEE SHEET 1A-L-9603

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	AEA
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	APPRV'D:
			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9611

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9620

MATCHLINE SEE SHEET 1A-L-9611

MATCHLINE SEE SHEET 1A-L-9613

MATCHLINE SEE SHEET 1A-L-9604

LIMIT OF WORK

LIMIT OF WORK

LIMIT OF WORK

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

CYL HUB 1

A-5 5.08 1"

A-4 1.35 1"

ALL DRIP ZONES SHALL HAVE MINIMUM 12" SETBACK (CLEAR-ZONE) BETWEEN DRIPLINE AND SOD OR PAVEMENT EDGE

MAINLINE & VALVES SHOWN FOR CLARITY. INSTALL MAINLINE AND VALVES 6" FROM B.O.C WHEN POSSIBLE WITHIN GREEN SPACE. CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS (TYP.).

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

CONTRACTOR SHALL ADJUST ALL OVERHEAD SPRAY HEADS TO ENSURE MINIMAL OVER-SPRAY OCCURS ON ANY HARDSCAPE SURFACE (TYP).

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR WILL ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.

CONTRACTOR SHALL LOCATE ALL UTILITIES AND DEPTHS OF UTILITIES PRIOR TO PLANTING AND INSTALLING IRRIGATION. IRRIGATION SHALL NOT BE PLACED DIRECTLY OVER UTILITIES. ANY DAMAGE TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT THE LOCAL GOVERNING AGENCY WITH ANY UTILITY CONFLICTS IN FIELD.

APPROXIMATE CONTROLLER & RAIN SENSOR LOCATION. AVOID OVERHEAD OBSTRUCTIONS AND OVERSPRAY ASSOCIATED WITH RAIN SENSOR. CONTRACTOR TO CONFIRM LOCATION WITH OWNER.

CONTRACTOR SHALL PROVIDE 110/120V, SINGLE PHASE POWER FOR CONTROLLER.

CONTRACTOR SHALL PROVIDE CONNECTION FROM CONTROLLER TO FLOW SENSOR.

CONTRACTOR SHALL ADJUST ALL OVERHEAD SPRAY HEADS TO ENSURE MINIMAL OVER-SPRAY OCCURS ON ANY HARDSCAPE SURFACE (TYP).

COORDINATE/DISCUSS PROJECT LIMITS WITH GENERAL CONTRACTOR WILL ENSURE ALL IRRIGATION EQUIPMENT IS INSTALLED WITHIN PROJECT AREA.

CONTRACTOR SHALL LOCATE ALL UTILITIES AND DEPTHS OF UTILITIES PRIOR TO PLANTING AND INSTALLING IRRIGATION. IRRIGATION SHALL NOT BE PLACED DIRECTLY OVER UTILITIES. ANY DAMAGE TO UTILITIES WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTACT THE LOCAL GOVERNING AGENCY WITH ANY UTILITY CONFLICTS IN FIELD.

HUB-ST-MH-006
RIM: 641.78
INV IN: 636.53 (15" N)
INV OUT: 632.27 (18" S)

N: 467,306.56
E: 2,584,490.77

69.00'

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS80100075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 1ft inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

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STATE OF OKLAHOMA — DARIAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	AEA
			APPRV'D:
			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9612

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9621

MATCHLINE SEE SHEET 1A-L-9612

MATCHLINE SEE SHEET 1A-L-9614

MATCHLINE SEE SHEET 1A-L-9605

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

PROPERTY LINE

CYL 1A DC

CYL 1A gCUB

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS80100TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
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(918) 380-8868

STATE OF OKLAHOMA — DARRIAN SCOTT — #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

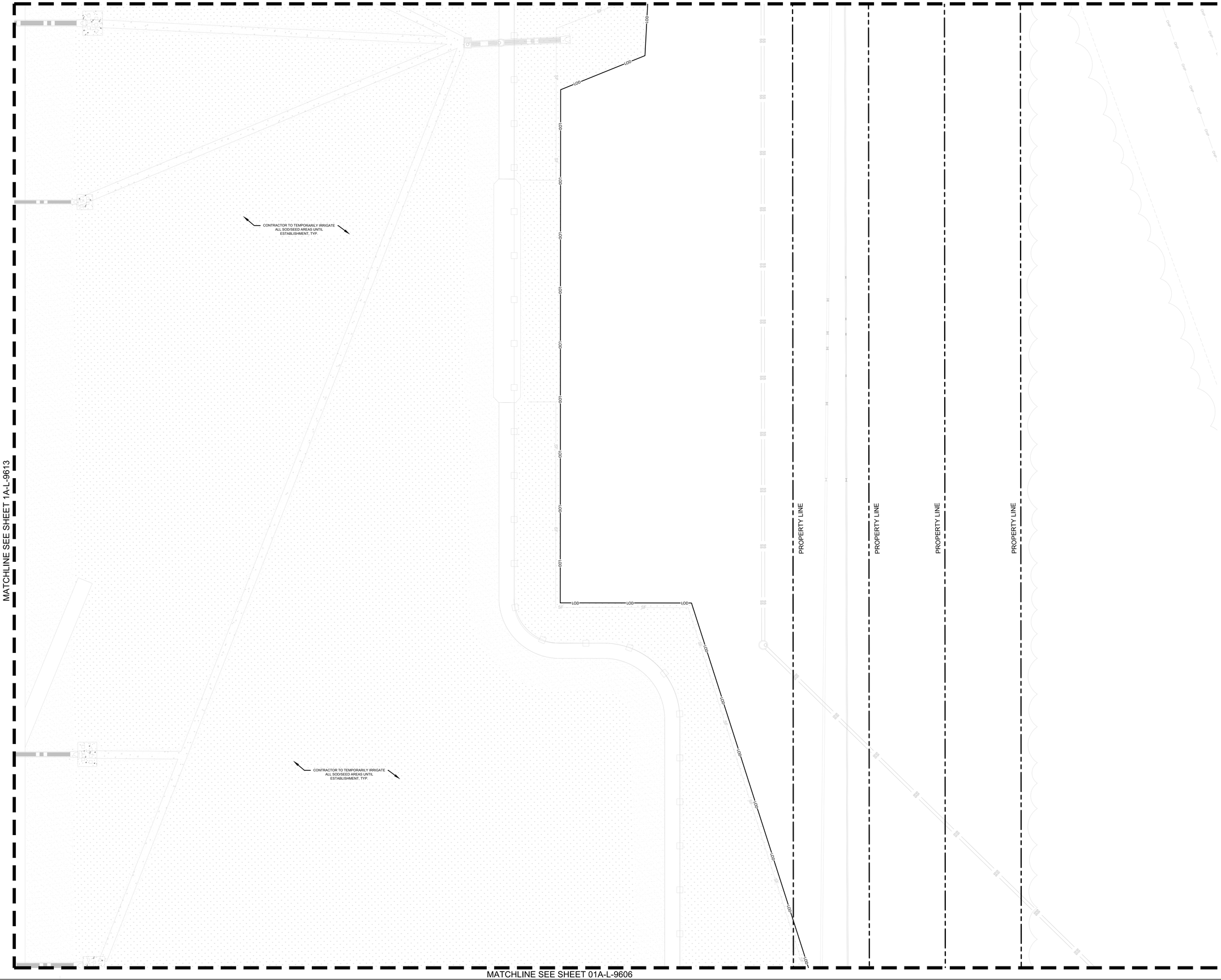
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9613
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO5-04-PRO30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRO30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCS3B010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper 7048R, Round Shape (for plants of ~24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Axis to Revolve Dripline Netafim TLCV-020-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 1-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WRF-CLK Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Control
Valve Number
Valve Flow
Valve Size

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9606 IRRIGATION PLAN 3/9/2026 10:09 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
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STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9614
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9626

PROPERTY LINE / LIMIT OF WORK

PROPERTY LINE / LIMIT OF WORK

MATCHLINE SEE SHEET 1A-L-9617

MATCHLINE SEE SHEET 1A-L-9619

PROPERTY LINE / LIMIT OF WORK

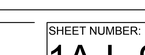
IRRIGATION SCHEDULE

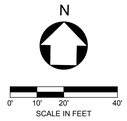
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M M M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ58010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout





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DARRAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9618

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9627

MATCHLINE SEE SHEET 1A-L-9618

MATCHLINE SEE SHEET 1A-L-9620

PROPERTY LINE / LIMIT OF WORK

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

MATCHLINE SEE SHEET 1A-L-9611

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 15 10	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS8010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BF	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CB	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout

Valve Number

Valve Flow

Valve Size

N

0' 10' 20' 40'

SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT — #362 — LICENSED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9619

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9628

MATCHLINE SEE SHEET 1A-L-9619

MATCHLINE SEE SHEET 1A-L-9621

MATCHLINE SEE SHEET 1A-L-9612

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

1"

1½"

1"

A-6 2.25 1"

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M L O	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS80100075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CE	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WRF	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
MA	Water Meter 1-1/2" Ref. Civil Plans
ME	Water Meter 1-1/2" Ref. Civil Plans
MC	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout

Valve Number
Valve Flow
Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl.industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA DARRAN SCOTT #362 REGISTERED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9620

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9629

MATCHLINE SEE SHEET 1A-L-9620

MATCHLINE SEE SHEET 1A-L-9622

MATCHLINE SEE SHEET 1A-L-9613

PROPERTY LINE

PROPOSED TEMPORARY SUBSTATION

1.71%

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

SLEEVING SHOWN FOR CLARITY. INSTALL LATERAL & MAINLINE IN ONE SLEEVE AND SIZE SLEEVE ACCORDINGLY (TYP.)

CYL 1A EYD

PROPERTY LINE

N

0' 10' 20' 40'
SCALE IN FEET

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
M L M	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
25 50 10 20	Toro 570S-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 570S Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZ58010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
X	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
BP	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
CA	Hunter A2C-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
CB	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
CC	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
D	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
WR	Hunter WRF-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FS	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
M1	Water Meter 1-1/2" Ref. Civil Plans
M2	Water Meter 1-1/2" Ref. Civil Plans
M3	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 1ft inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9601 IRRIGATION PLAN 3/30/2026 5:29 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9621
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9630

MATCHLINE SEE SHEET 1A-L-9621

MATCHLINE SEE SHEET 1A-L-9614

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

100'

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO3-04-PR03S-CY Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. M—Maroon adj arc 90 to 210, L—Light Blue 210 to 315 arc, D—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Food Bubbler Nozzle on 5705 Feed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM
	TreeDiaper TreeDiaper 7048R, Round Shape (for plants of ~ 24" rootball), Mocha#1044b-A, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.
SYMBOL	**MANUFACTURER/MODEL/DESCRIPTION**
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Electric Remote Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout: Valve Number / Valve Flow / Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9608 IRRIGATION PLAN 3/9/2026 10:09 AM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARRAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9622

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO5-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90-Manson adj arc 90 to 210, L=Light Blue 210 to 270 arc, 0=Olive 360 arc.
	Toro 5705-FB-PC Pressure Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2S0130375-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDisper TreeDisper 7048R, Round Shape (for plants of ~24" rootball), Model#1048wA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-020-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 5-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (SECSTAKE10).
	Hunter WRF-CLIK Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Control
Valve Number
Valve Flow
Valve Size

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9625

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

MATCHLINE SEE SHEET 1A-L-9634

MATCHLINE SEE SHEET 1A-L-9625

MATCHLINE SEE SHEET 1A-L-9627

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

LOD

LOD

LOD

LOD

LOD

MATCHLINE SEE SHEET 1A-L-9618

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, L—Light Blue 210 to 315 arc, S—Olive 300 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5700 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130T5-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-A 40PSI
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1044b-A, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechLine Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1-1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WTS-150 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout: Valve Number / Valve Flow / Valve Size

N

0' 10' 20' 40'

SCALE IN FEET

K:\IMKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/3/12026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9626

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9635

MATCHLINE SEE SHEET 1A-L-9626

MATCHLINE SEE SHEET 1A-L-9628

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

MATCHLINE SEE SHEET 1A-L-9619

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO3-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Food Bubbler Nozzle on 5705 Feed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Mocha#1044b-A, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
AC	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
XC	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
XC	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (XECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
FLOW	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

View Callout

Sheet Number

View Area

View Scale

N

0' 10' 20' 40'

SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARNIAN SCOTT — #362 — LICENSED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

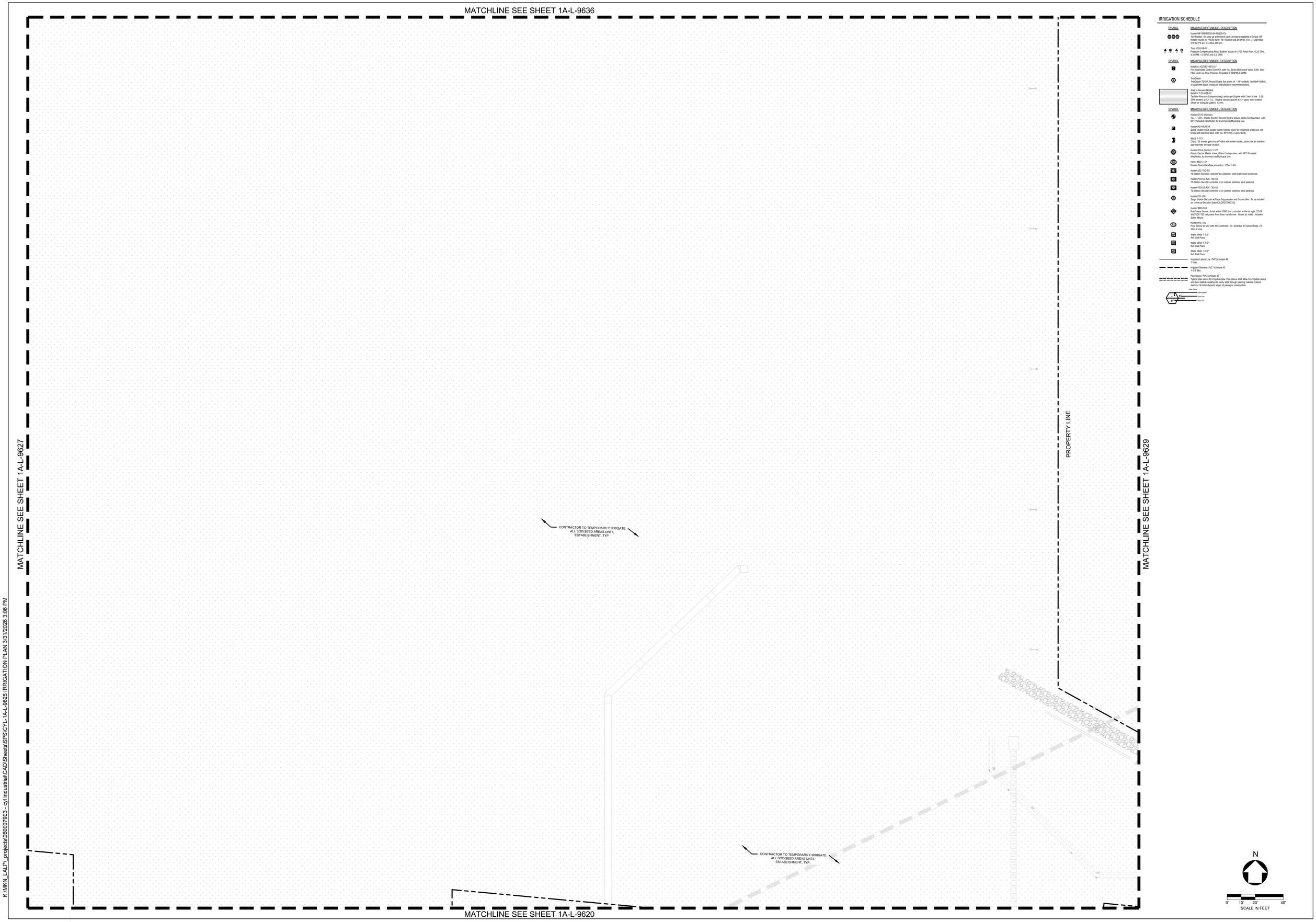
PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9627

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO5-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Toro 5705-FB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCSB010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDisper TreeDisper 1048R, Round Shape (for plants of ~24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-020-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 1-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ACC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ACC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WRF-CLK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

View Legend
Valve Number
Valve Flow
Valve Size
0'
8"

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9628
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO5-04-PR030-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRO30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Toro 5705-FB-PC Pressure-Compensating Flood Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC25B010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper 7048R, Round Shape (for plants of ~24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 1-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (SECSTAKE10).
	Hunter WRF-CLK Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Control
Valve Number
Valve Flow
Valve Size

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9629
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9606 IRRIGATION PLAN 3/9/2026 10:09 AM

MATCHLINE SEE SHEET 1A-L-9629

MATCHLINE SEE SHEET 1A-L-9622

PROPERTY LINE

PROPERTY LINE

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc, 90 to 210, L—Light Blue 210 to 315 arc, 0—Other 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-150 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9630
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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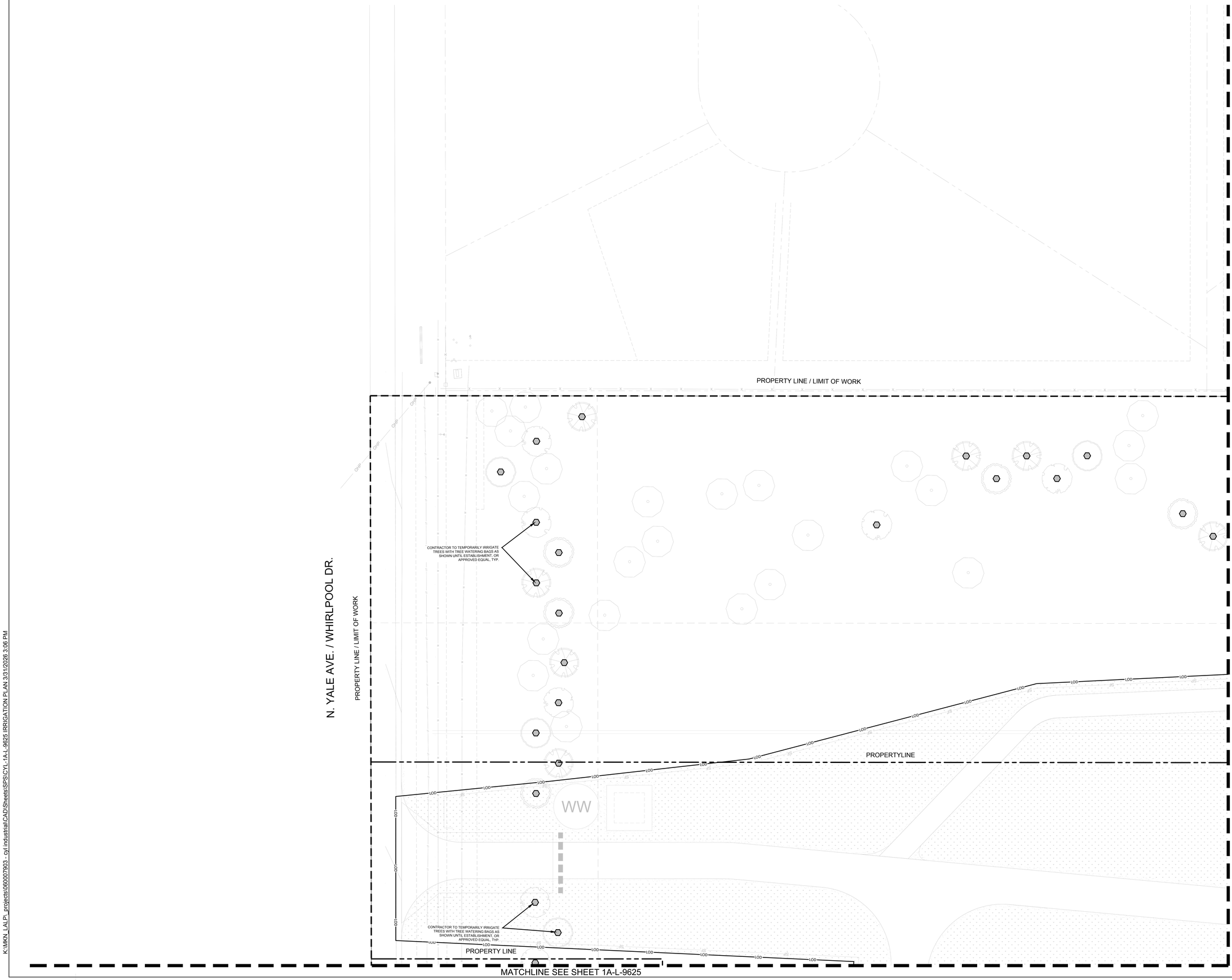


IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Food Bubbler Nozzle on 5705 Feed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130T5-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.0GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048vA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-150 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

DARRAN SCOTT #362 — STATE OF OKLAHOMA — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	AEA
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
			APPRV'D:
			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

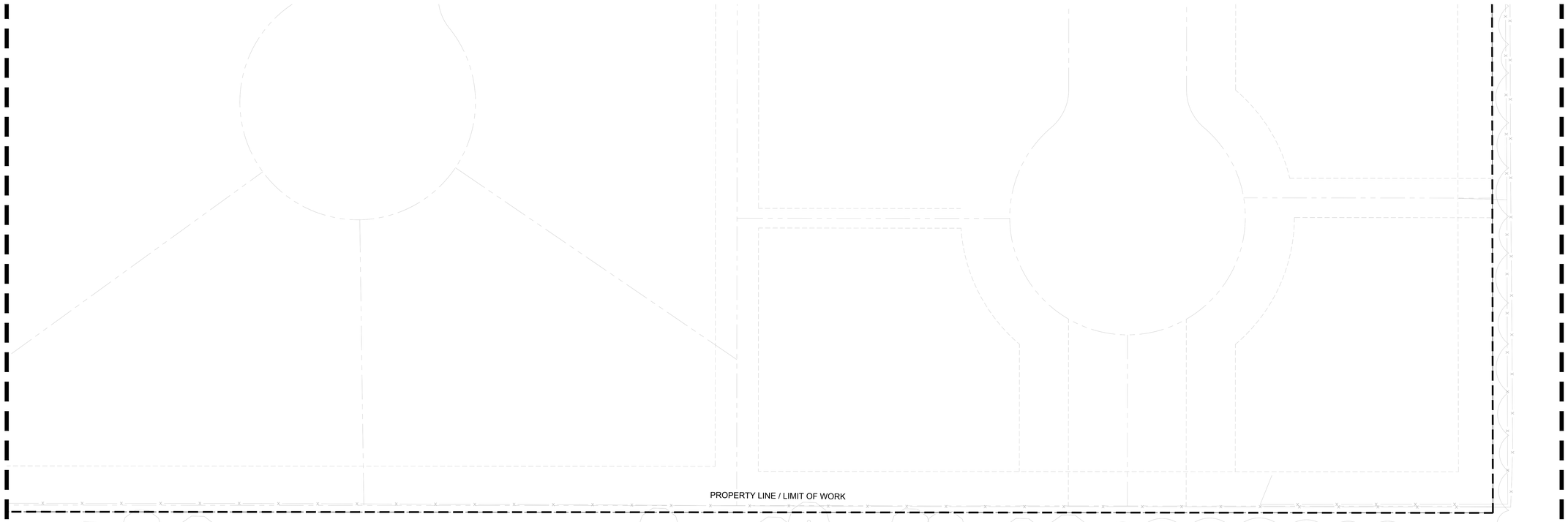
PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9633

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO3-04-PR03D-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc, 90 to 210, L—Light Blue 210 to 315 arc, D—Olive 300 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

View Callout
- Sheet Number
- Detail Area
- Detail Area

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl.industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT — #362 — CERTIFIED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9634

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9643

MATCHLINE SEE SHEET 1A-L-9634

MATCHLINE SEE SHEET 1A-L-9636

MATCHLINE SEE SHEET 1A-L-9627

PROPERTY LINE

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO1-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Flood Bubbler Nozzle on 5705 Feed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130T5-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Mocha#1044b-A, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-133s., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Pilot-Operated, for Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ACC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WSL-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" Min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

View Callout
Sheet Number
View Area
View Scale

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

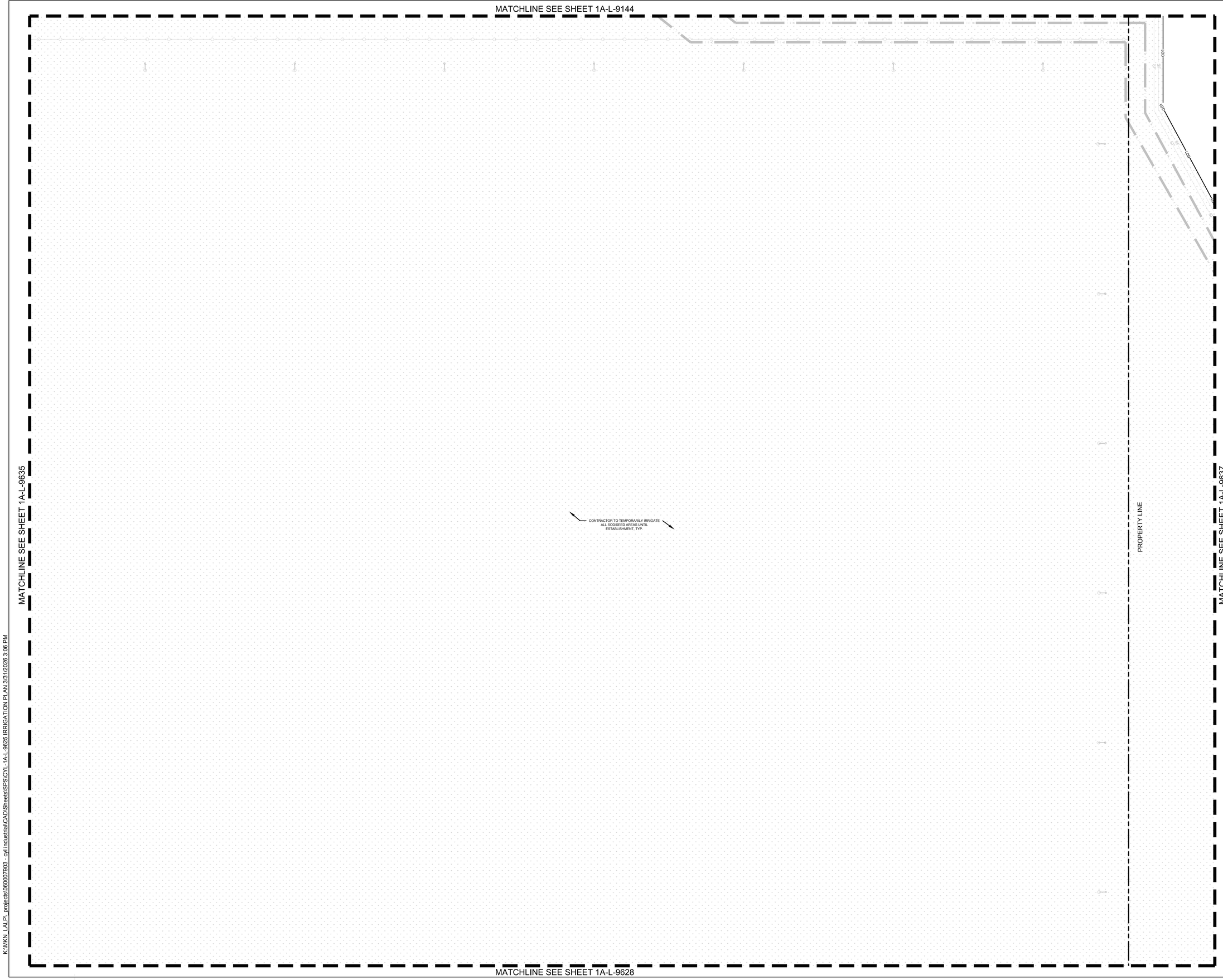
PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9635

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRO5-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.
	Toro 5705-FB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCS50010075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper 7048R, Round Shape (for plants of ~24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.
SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 1-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WRF-CLW Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Size
Valve Size

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

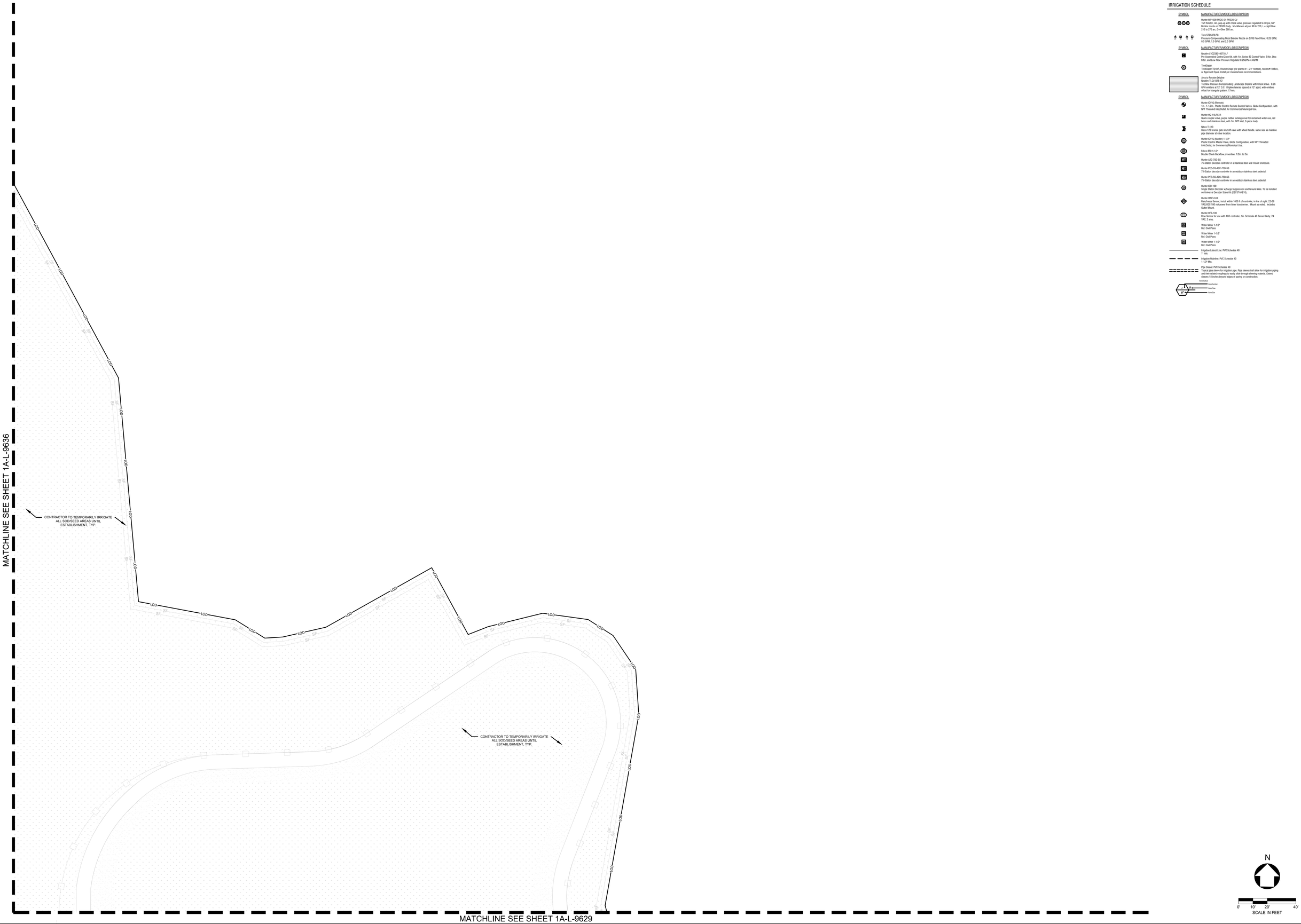
DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9636
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O—Olive 360 arc.
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 TechLine Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-A2C-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.

Valve Callout
Valve Number
Valve Flow
Valve Size

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARRAN SCOTT #362 — LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9637
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

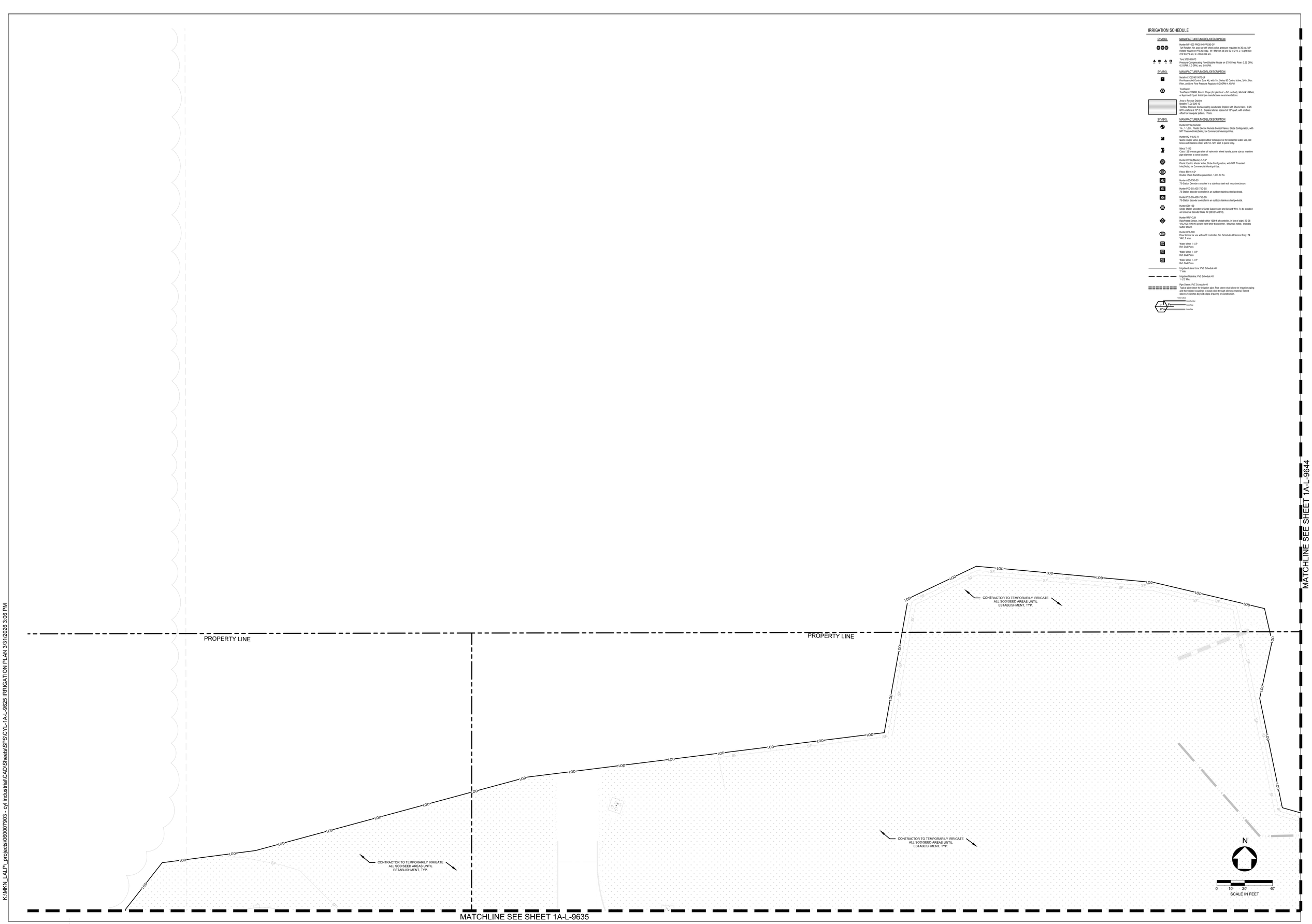
K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9608 IRRIGATION PLAN 3/9/2026 10:09 AM

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. M=Maroon adj arc 90 to 210, L=Light Blue 210 to 270 arc, C=Olive 360 arc.
	Toro 5705-PB-PC Pressure Compensating Flood Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Netafim LVCZS8010875-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM
	TreeDiaper TreeDiaper T0489L Round Shape (for plants of ~ 24" rootball), Model#1048wA, or Approved Equal. Install per manufacturer recommendations.
	Area to Receive Dripline Netafim TLCV-026-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.
	Nibco 1-1/2 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.
	Hunter AXC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.
	Hunter PED-SS-AXC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter PED-SS-AXC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).
	Hunter WRF-CLW Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.
	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Water Meter 1-1/2" Ref. Civil Plans
	Irrigation Lateral Line: PVC Schedule 40 1" min.
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.
	Valve Cutout Valve Number Valve Flow Valve Size



K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS: TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9643

PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9643

PROPERTY LINE

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
M M M	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O—Olive 360 arc.	36
A B A B	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC2580150TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM	0
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-026-12 TechLine Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
FCD	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
AC	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
XC	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
XC	Hunter PEDI-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
FS	Hunter WTS-150 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp	3
M	Water Meter 1-1/2" Ref. Civil Plans	1
M	Water Meter 1-1/2" Ref. Civil Plans	1
M	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,816 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	8,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

Valve Callout

Valve Number
Valve Flow
Valve Size

PROPERTY LINE

CONTRACTOR TO TEMPORARILY IRRIGATE ALL SOD/SEED AREAS UNTIL ESTABLISHMENT, TYP.

MATCHLINE SEE SHEET 1A-L-9636

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN &
ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9644
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

MATCHLINE SEE SHEET 1A-L-9166

PROPERTY LINE / LIMIT OF WORK

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90–Maroon adj arc 90 to 210, L–Light Blue 210 to 270 arc, 0–Olive 360 arc.	36
	Toro 5705-PB-PC Pressure Compensating Flood Bubbler Nozzle on 5705 Feed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVCZ5801075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM	2
	TreeDisper TreeDisper TD48R, Round Shape (for plants of ~24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-020-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.	1,988 ft

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco 5-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WRF-CLW Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.	3
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,816 ft
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	6,025 ft
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 ft

Valve Cutoff
Valve Number
Valve Flow
Valve Size

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

Kimley»Horn
KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA
DARRAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS

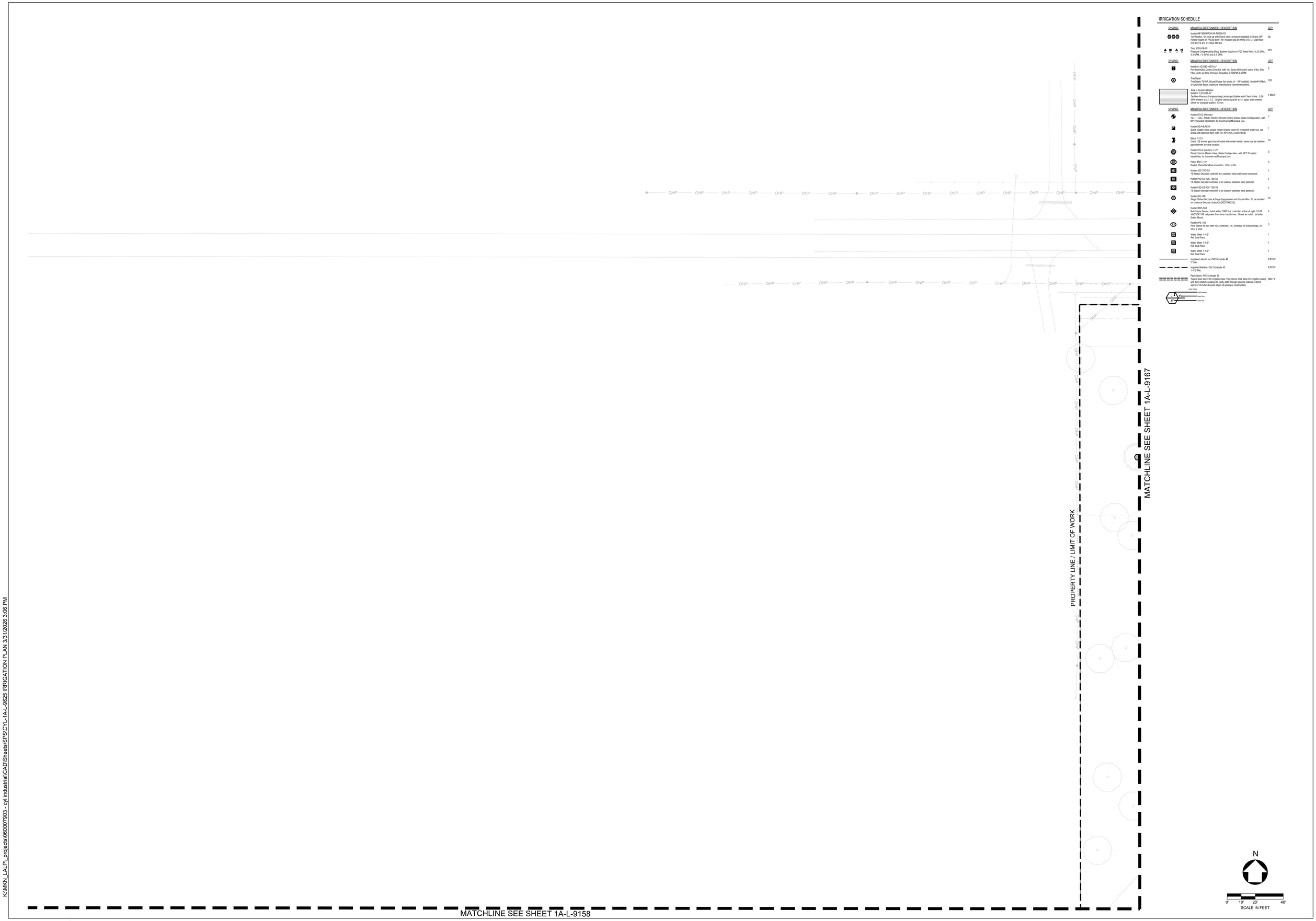
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS: TULSA COUNTY, OK
PROJ. NO.:10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9658
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PROS-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90-Marron adj arc 90 to 210, L=Light Blue 210 to 270 arc, O=Olive 360 arc.	36
	Toro 5705-PB-PC Pressure Compensating Flood Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC25B10075-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 0.25GPM-4.4GPM	2
	TreeDiaper TreeDiaper 1048R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-020-12 Techline Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPM emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mm.	1,988 ft

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44-RC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco 5-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
	Hunter ADC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter PED-SS-ADC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WRF-CLK Rain/Freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
	Hunter HFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp.	3
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,616 ft
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	6,025 ft
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 ft

Valve Control
Valve Number
Valve Flow
Valve Size

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

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DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

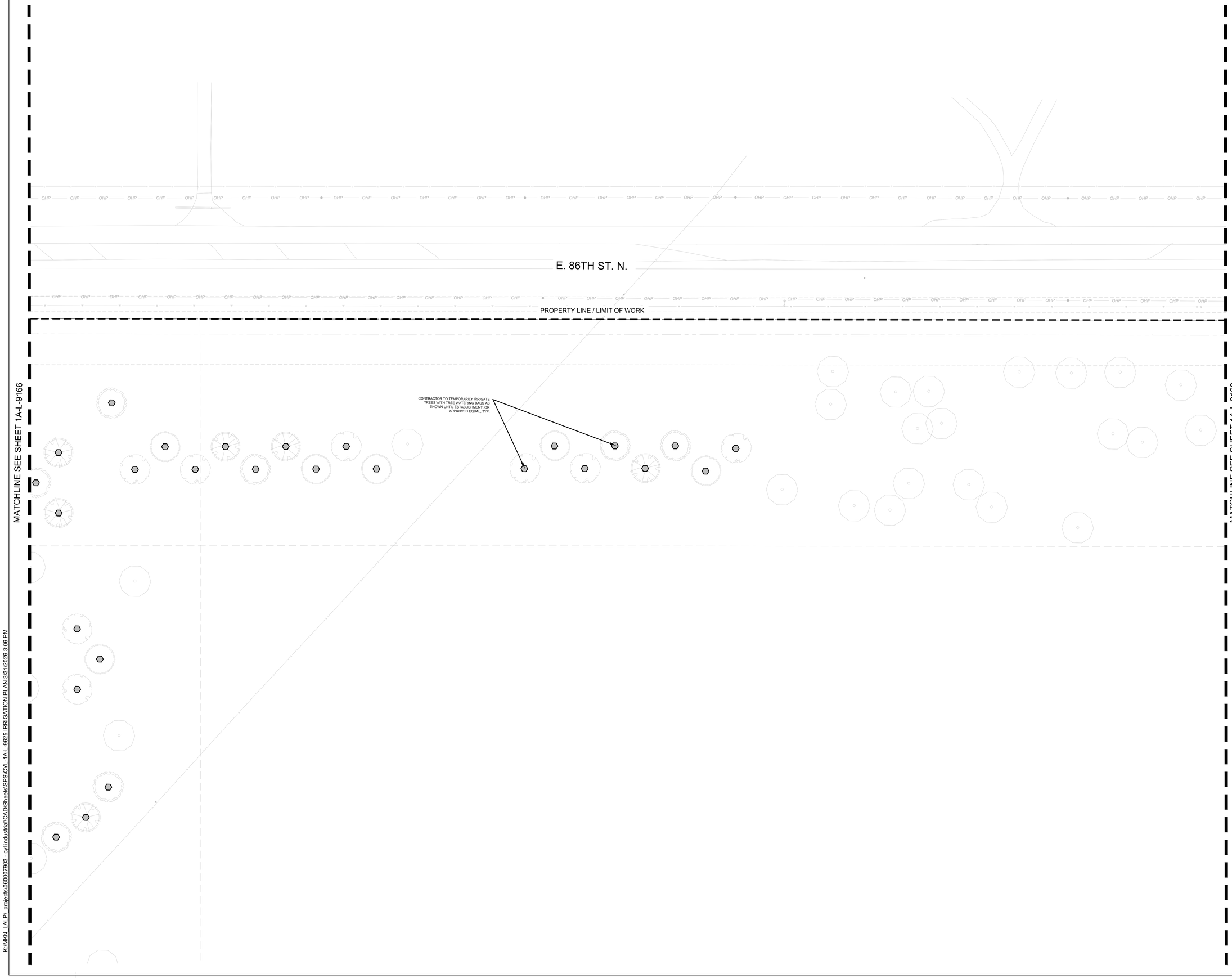
PROJ. NO.:10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9666

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PRO3-04-PR03S-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc, 90 to 210, L=Light Blue 210 to 315 arc, 0=Other 360 arc.	36
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM	0
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1048x4, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-026-12 TechNet Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-10D Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
	Hunter WTS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp	3
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" Min.	9,816 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	8,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

View Callout
Sheet Number
Detail Title
Scale

HDR, INC.
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OMAHA, NE 68106
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STATE OF OKLAHOMA
DARRAN SCOTT
#362
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
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	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9667
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

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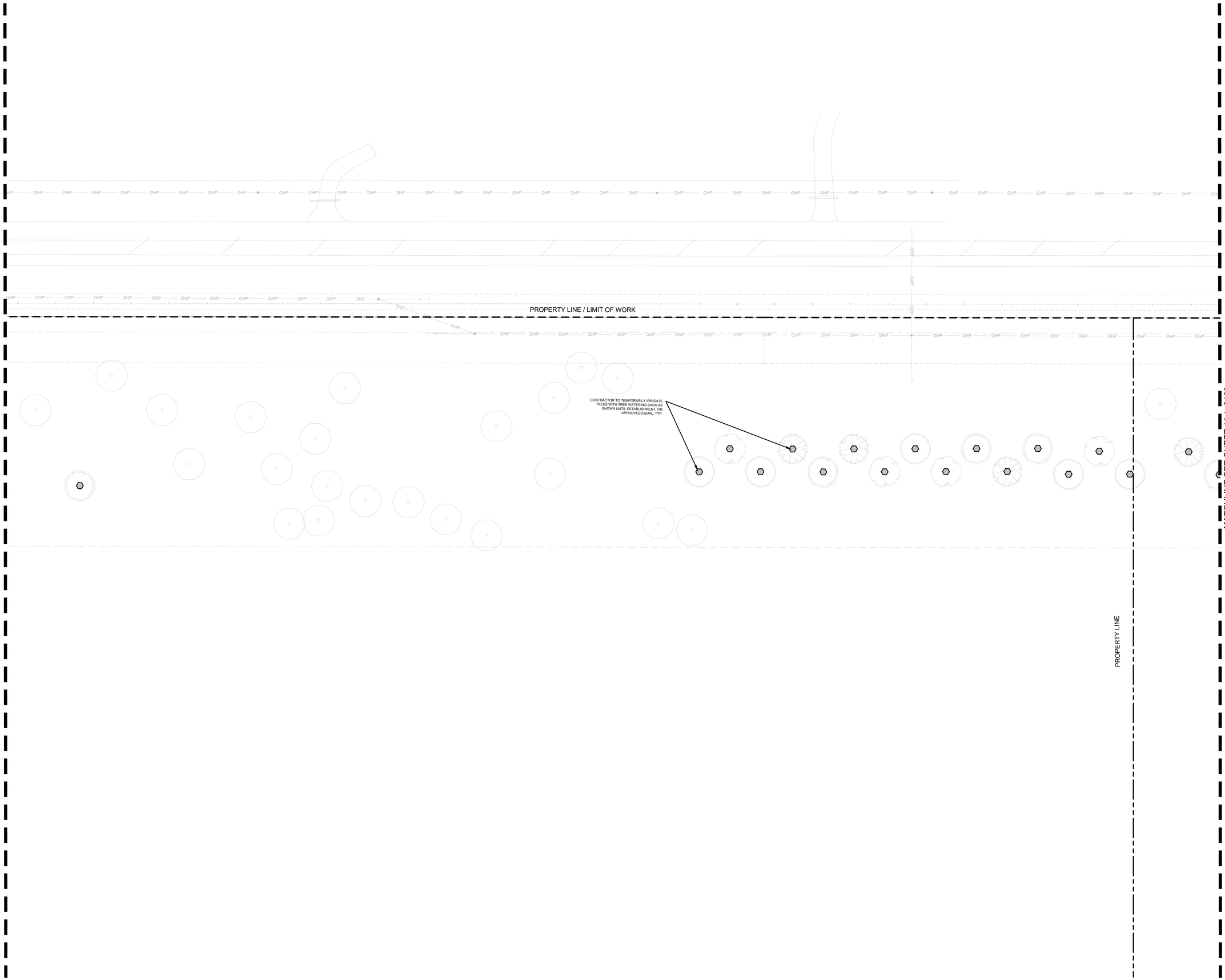

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PRO3-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90–Maroon adj arc, 90 to 210, L–Light Blue 210 to 315 arc, D–Olive 300 arc.	36
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC2580150T5-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM	0
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1044b-A, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
	Hunter ACC-750-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Hunter PED-SS-ACC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter PED-SS-ACC-750-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp	3
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" Min.	9,816 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	8,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

View Callout
Sheet Number
Sheet Title
Detail Number
Detail Title

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2026 3:06 PM

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
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STATE OF OKLAHOMA
DARRIAN SCOTT
#362
LICENSED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

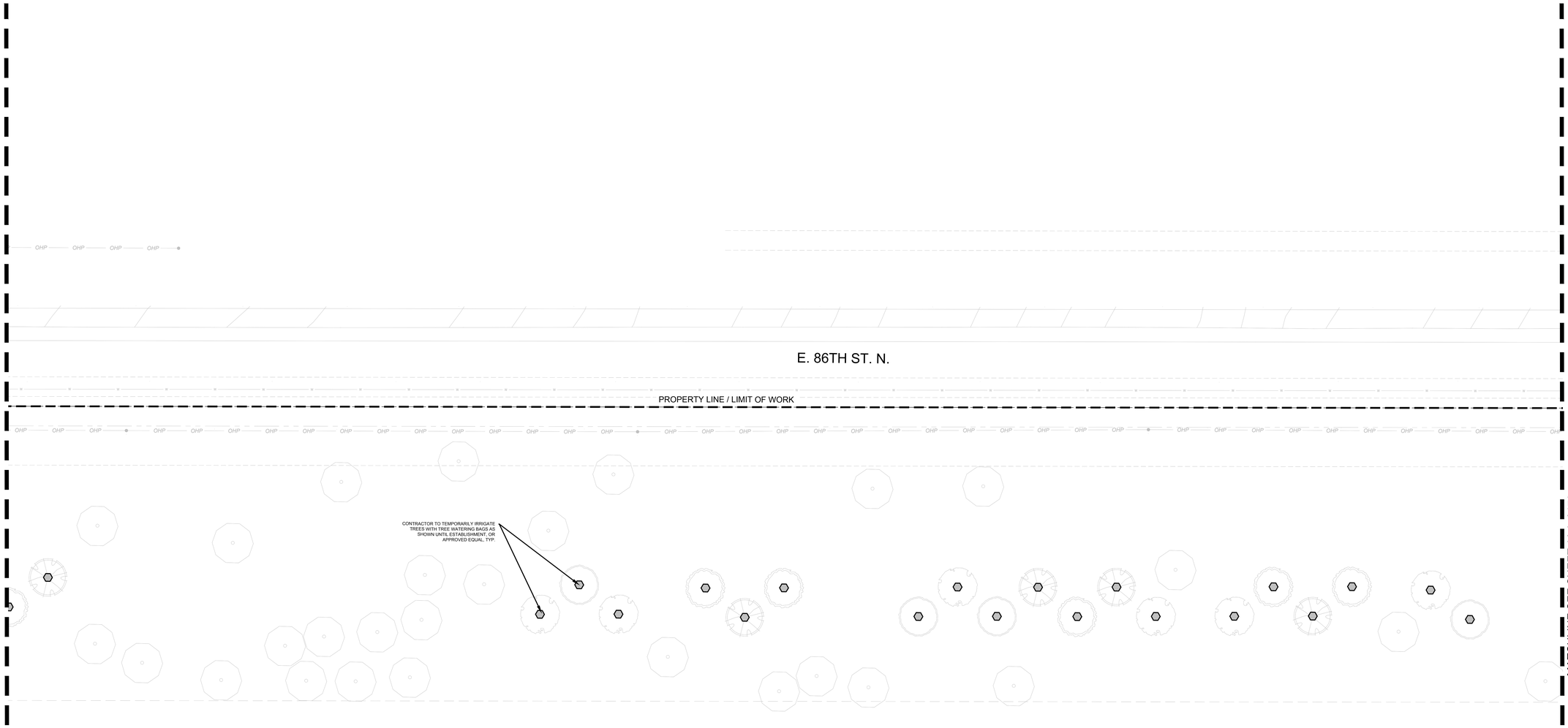
REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9668
PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi, MP Rotator nozzle on PRS30 body. 90—Maroon adj arc, 90 to 210, L—Light Blue 210 to 315 arc, D—Olive 360 arc.	36
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC2580150T5-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM	0
	TreeDiaper TreeDiaper TD48R, Round Shape (for plants of ~ 24" rootball), Model#1044b-A, or Approved Equal. Install per manufacturer recommendations.	128
	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-120s., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter PED-SS-ADC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WIR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 150 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
	Hunter WSI-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp	3
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,816 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	8,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

View Callout
Sheet Number
Detail Area

N

0' 10' 20' 40'
SCALE IN FEET

K:\MKN_LALP_projects\060007903 - cyl.Industrial\CAD\Sheets\SPS\CYL-1A-L-9625 IRRIGATION PLAN 3/31/2028 3:06 PM

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STATE OF OKLAHOMA
DARRAN SCOTT
#362
REGISTERED LANDSCAPE ARCHITECT
04/03/2026

CONFIDENTIAL CLIENT
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KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA
APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

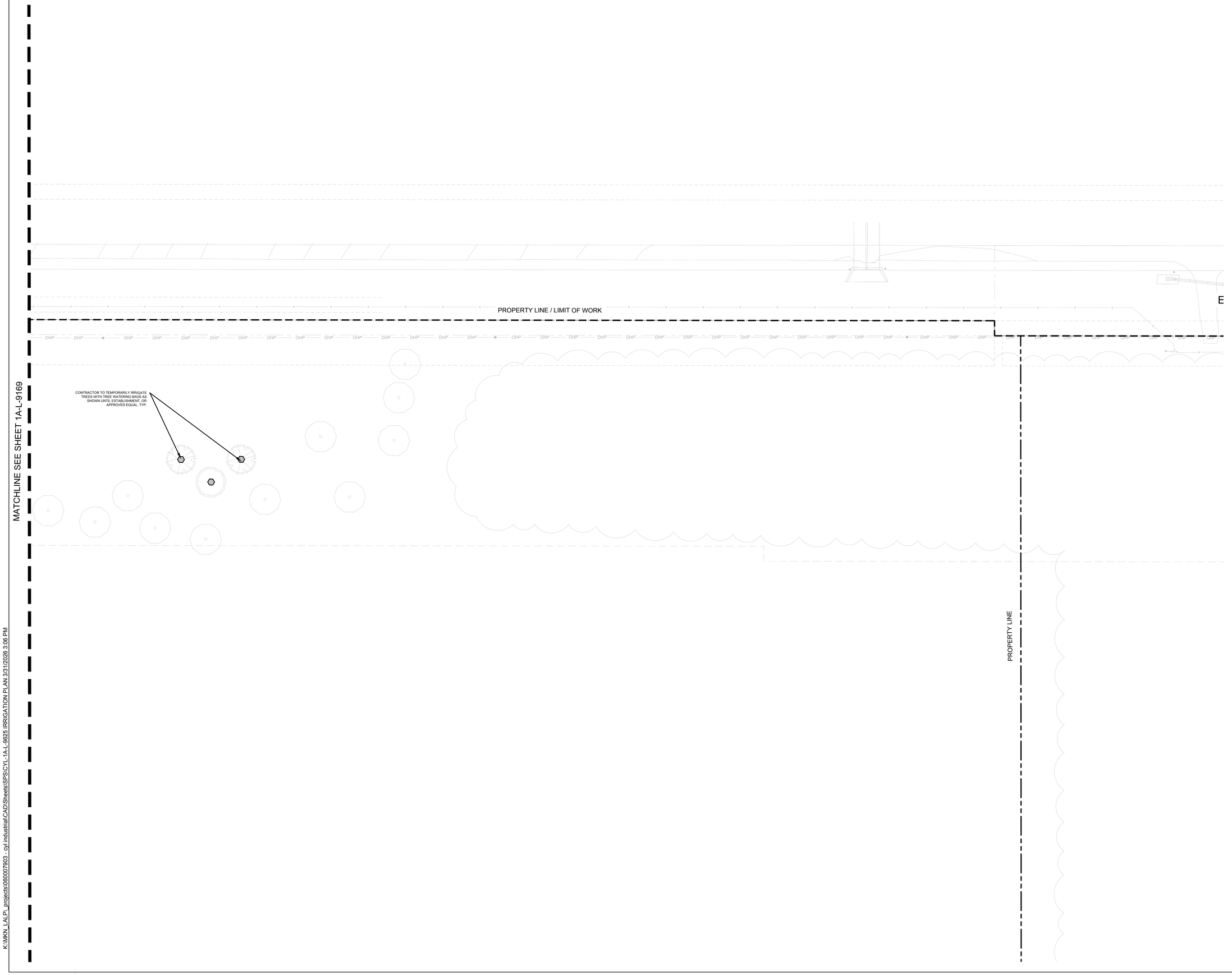
PROJ. NO.: 10434525

IRRIGATION PLAN

SCALE: AS SHOWN

SHEET NUMBER:
1A-C-9669

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS



IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter MP1000 PRS30-04-PRS30-CV Turf Rotator, 4in. pop-up with check valve, pressure regulated to 30 psi. MP Rotator nozzle on PRS30 body. 90—Maroon adj arc 90 to 210, I—Light Blue 210 to 315 arc, O=Olive 360 arc.	36
	Toro 5705-PB-PC Pressure-Compensating Fixed Bubbler Nozzle on 5705 Fixed Riser. 0.25 GPM, 0.5 GPM, 1.0 GPM, and 2.0 GPM.	225

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Netafim LVC2580130TS-LF Pre-Assembled Control Zone Kit, with 1in. Series 80 Control Valve, 3/4in. Disc Filter, and Low Flow Pressure Regulator 8.2GPM-4.4GPM	0
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	Area to Receive Dripline Netafim TLCV-026-12 TechFlow Pressure Compensating Landscape Dripline with Check Valve. 0.26 GPH emitters at 12" O.C. Dripline laterals spaced at 12" apart, with emitters offset for triangular pattern. 17mils.	1,988 lf

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
	Hunter ICV-G (Remote) 1in., 1-1/2in., Plastic Electric Remote Control Valves, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	7
	Hunter HQ-44LRC-R Quick coupler valve, purple rubber locking cover for reclaimed water use, red brass and stainless steel, with 1in. NPT inlet, 2-piece body.	1
	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as mainline pipe diameter at valve location.	14
MV	Hunter ICV-G (Master) 1-1/2" Plastic Electric Master Valve, Globe Configuration, with NPT Threaded Inlet/Outlet, for Commercial/Municipal Use.	3
DCVA	Febco 850 1-1/2" Double Check Backflow prevention, 1/2in. to 2in.	3
ACC	Hunter ACC-75D-SS 75-Station Decoder controller in a stainless steel wall mount enclosure.	1
XCI	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
XCI	Hunter PED-SS-ACC-75D-SS 75-Station decoder controller in an outdoor stainless steel pedestal.	1
	Hunter ICD-100 Single Station Decoder w/Surge Suppression and Ground Wire. To be installed on Universal Decoder Stake Kit (DECSTAKE10).	10
	Hunter WR-CLIK Rain/freeze Sensor, install within 1000 ft of controller, in line of sight. 22-28 VAC/VDC 100 mA power from timer transformer. Mount as noted. Includes Gutter Mount.	3
FS50	Hunter WFS-100 Flow Sensor for use with ACC controller, 1in. Schedule 40 Sensor Body, 24 VAC, 2 amp	3
FC	Water Meter 1-1/2" Ref. Civil Plans	1
WM	Water Meter 1-1/2" Ref. Civil Plans	1
FC	Water Meter 1-1/2" Ref. Civil Plans	1
	Irrigation Lateral Line: PVC Schedule 40 1" min.	9,816 lf
	Irrigation Mainline: PVC Schedule 40 1-1/2" Min.	8,025 lf
	Pipe Sleeve: PVC Schedule 40 Typical pipe sleeve for irrigation pipe. Pipe sleeve shall allow for irrigation piping and their related couplings to easily slide through sleeving material. Extend sleeves 18 inches beyond edges of paving or construction.	380.7 lf

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A — Sheet Number
Sheet Title

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STATE OF OKLAHOMA — DARRAN SCOTT — #362 — REGISTERED LANDSCAPE ARCHITECT
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DRAWN: AEA
APPRV'D: DAS

CYL1A
PROJECT ADDRESS:
TULSA COUNTY, OK
PROJ. NO.: 10434525

IRRIGATION PLAN
SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9670
PAPER SIZE: E (36"x48")
PHASE: ISSUE FOR CONSTRUCTION - SPS

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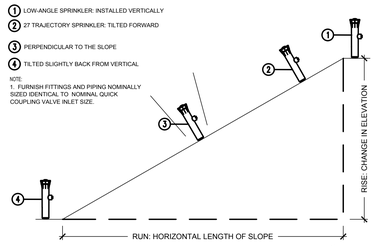
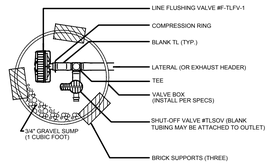


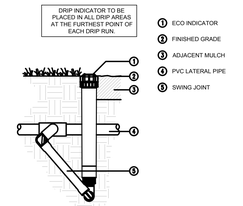
EQUIPMENT ON SLOPE | O

Scale: N.T.S.



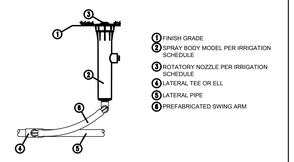
LINE FLUSHING VALVE W/ SHUT-OFF VALVE | K

Scale: N.T.S.



ECO INDICATOR - SWING JOINT | H

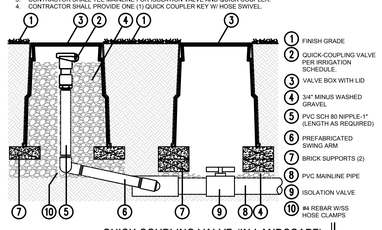
Scale: N.T.S.



MP ROTATOR SPRINKLER | D

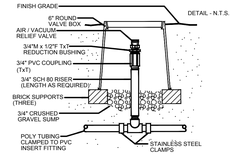
Scale: N.T.S.

NOTE:
1. **CONTRACTOR SHALL PROVIDE PURPLE LID FOR QUICK COUPLE VALVE BOX.**
2. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.
3. CONTRACTOR SHALL TEE MAINLINE FOR ISOLATION VALVE AND QUICK COUPLER.
4. CONTRACTOR SHALL PROVIDE ONE (1) QUICK COUPLER KEY W/ HOSE SWIVEL.



QUICK COUPLING VALVE (IN LANDSCAPE) | N

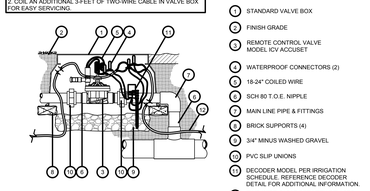
Scale: N.T.S.



AIR/VACUUM RELIEF (PLUMBED TO POLY) | J

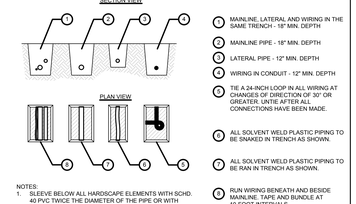
Scale: N.T.S.

NOTES:
1. VALVE BOX TO BE INSTALLED 12-18" FROM BACK OF CURB.
2. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.



REMOTE CONTROL VALVE (TWO-WIRE) | G

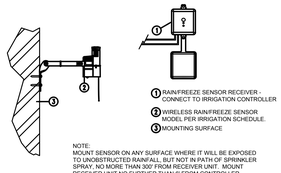
Scale: N.T.S.



NOTES:
1. SLEEVE BELOW ALL HARDSCAPE ELEMENTS WITH SCHD. 40 PVC TWICE THE DIAMETER OF THE PIPE OR WITH BUNDLE WITHIN.
2. FOR PIPE AND WIRE BURIAL DEPTHS SEE SPECIFICATIONS.

PIPE AND WIRE TRENCHING | C

Scale: N.T.S.

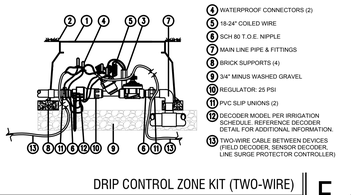


NOTE:
MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAIN/FALL, BUT NOT IN PATH OF SPRINKLER SPRAY. NO MORE THAN 30F FROM RECEIVER UNIT. MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

WIRELESS RAIN/FREEZE SENSOR | M

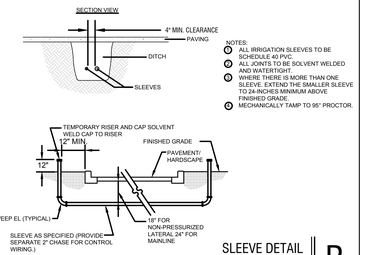
Scale: N.T.S.

NOTES:
1. VALVE BOX TO BE INSTALLED 12-18" FROM BACK OF CURB.
2. COIL AN ADDITIONAL 3-FEET OF TWO-WIRE CABLE IN VALVE BOX FOR EASY SERVICING.



DRIP CONTROL ZONE KIT (TWO-WIRE) | F

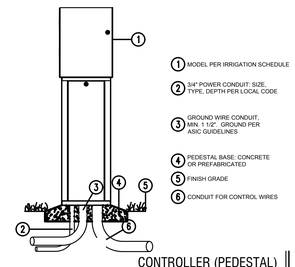
Scale: N.T.S.



NOTES:
A. ALL IRRIGATION SLEEVES TO BE SCHEDULE 40 PVC.
B. ALL JOINTS TO BE SOLVENT WELDED AND WATERTIGHT.
C. WHERE THERE IS MORE THAN ONE SLEEVE, EXTEND THE SMALLER SLEEVE TO 24-INCHES MINIMUM ABOVE FINISHED GRADE.
D. MECHANICALLY TAMP TO 95° PROCTOR.

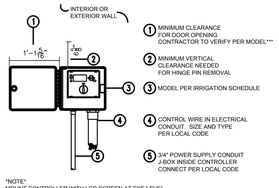
SLEEVE DETAIL | B

Scale: N.T.S.



CONTROLLER (PEDESTAL) | P

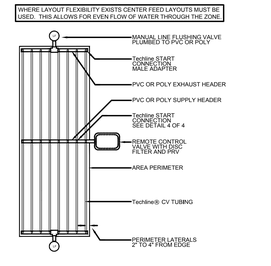
Scale: N.T.S.



"NOTE"
MOUNT CONTROLLER WITH LCD SCREEN AT EYE LEVEL.
CONTROLLER SHALL BE HARD-WIRED TO GROUNDED 110 or 220 VAC SOURCE.

CONTROLLER (WALL MOUNTED) | L

Scale: N.T.S.

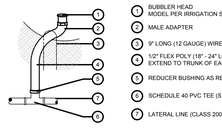


ALL BARBED FITTINGS TO UTILIZE EITHER STAINLESS STEEL HOSE CLAMPS, STEEL CRIMP, OR COMPRESSION RING.

TECHLINE CV-MAXIMUM LENGTH OF A SINGLE LATERAL (FEET)												
TECHLINE DRIPPER SPACING	12"				18"				24"			
DRIPPER FLOW RATE (GPH)	0.26	0.4	0.6	0.9	0.26	0.4	0.6	0.9	0.6	0.9		
INLET PRESSURE (PSI)												
20	331	242	190	144	468	344	270	204	342	260		
25	413	302	238	180	584	429	336	257	430	326		
35	518	380	299	227	737	540	426	323	542	412		
45	594	436	343	260	845	620	489	371	622	472		
55	655	480	378	287	932	684	539	410	686	522		
60	681	580	393	298	969	713	561	426	716	544		

TECHLINE CV CENTER FEED LAYOUT | I

Scale: N.T.S.



BUBBLER ASSEMBLY | E

Scale: N.T.S.

PVC PIPE SIZE	SOLVENT WELD SCH. 40 FITTINGS	BELL AND GASKET FITTINGS	SOCKETED PIPE
1/2"	2"	--	2"
3/4"	2"	--	2"
1"	2 1/2"	--	2 1/2"
1 1/4"	3"	--	3"
1 1/2"	3"	3"	3"
2"	4"	4"	4"
2 1/2"	6"	6"	6"
3"	6"	6"	6"
4"	8"	8"	8"

SLEEVE SCHEDULE | A

Scale: N.T.S.

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARWIN SCOTT — #362 — REGISTERED LANDSCAPE ARCHITECT

04/03/2026

CONFIDENTIAL CLIENT ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS		
NO.	DATE	DESCRIPTION
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS

DRAWN: AEA

APPRV'D: DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9700

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS

GENERAL IRRIGATION SPECIFICATIONS AND NOTES

A. EXTENT:

1. INCLUDES FURNISHING ALL LABOR, MATERIALS AND EQUIPMENT FOR THE PROPER INSTALLATION OF THE IRRIGATION SYSTEM. THE WORK INCLUDES, BUT IS NOT LIMITED TO THE FOLLOWING:

   a. TRENCHING AND BACKFILL, (2) AUTOMATICALLY CONTROLLED LOW VOLUME IRRIGATION SYSTEM, (3) TEST ALL SYSTEMS AND MAKE OPERATIVE, (4) "AS-BUILT" DRAWINGS.

B. GENERAL:

1. PERMITS AND FEES: OBTAIN ALL PERMITS AND PAY REQUIRED FEES TO ANY GOVERNMENTAL AGENCY HAVING JURISDICTION OVER THE WORK. INSPECTIONS REQUIRED BY LOCAL ORDINANCES DURING THE COURSE OF CONSTRUCTION SHALL BE ARRANGED AS REQUIRED. ON COMPLETION OF THE WORK, SATISFACTORY EVIDENCE SHALL BE FURNISHED TO THE OWNER'S CONSTRUCTION REPRESENTATIVE TO SHOW THAT ALL WORK HAS BEEN INSTALLED IN ACCORDANCE WITH THE STATE AND LOCAL BUILDING/ PLUMBING CODE AND ALL OTHER CODE REQUIREMENTS.

2. APPROVAL: WHEREVER THE TERMS "APPROVE" OR "APPROVED" ARE USED IN THE SPECIFICATIONS, THEY SHALL MEAN THE APPROVAL OF THE OWNER'S CONSTRUCTION REPRESENTATIVE IN WRITING.

3. BEFORE ANY WORK IS STARTED, A CONFERENCE SHALL BE HELD BETWEEN THE CONTRACTOR AND THE OWNER'S CONSTRUCTION REPRESENTATIVE CONCERNING THE WORK UNDER THIS CONTRACT.

4. COORDINATION: COORDINATE AND COOPERATE WITH OTHER CONTRACTORS TO ENABLE THE WORK TO PROCEED AS RAPIDLY AND EFFICIENTLY AS POSSIBLE.

5. INSPECTION OF SITE:

   a. CONTRACTOR SHALL ACQUAINT THEMSELVES WITH ALL SITE CONDITIONS. SUBMISSION OF THEIR PROPOSAL SHALL BE CONSIDERED EVIDENCE THAT THE EXAMINATION HAS BEEN CONDUCTED. SHOULD UTILITIES NOT SHOWN ON THE PLANS BE FOUND DURING EXCAVATIONS, CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S CONSTRUCTION REPRESENTATIVE FOR INSTRUCTIONS AS TO FURTHER ACTION. FAILURE TO DO SO WILL MAKE CONTRACTOR LIABLE FOR ANY AND ALL DAMAGE THERETO ARISING FROM HIS OPERATIONS SUBSEQUENT TO DISCOVERY OF SUCH UTILITIES NOT SHOWN IN PLANS.
   b. CONTRACTOR SHALL MAKE NECESSARY ADJUSTMENTS IN THE LAYOUT AS MAY BE REQUIRED TO CONNECT TO EXISTING STUBOUTS, SHOULD SUCH STUBS NOT BE LOCATED EXACTLY AS SHOWN, AND AS MAY BE REQUIRED TO WORK AROUND EXISTING WORK AT NO INCREASE IN COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

6. PROTECTION OF EXISTING PLANTS AND SITE CONDITIONS: THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT SITE CONDITIONS TO REMAIN. SHOULD DAMAGE BE INCURRED, THE CONTRACTOR SHALL REPAIR THE DAMAGE TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.

7. THE OWNER RESERVES THE RIGHT TO SUBSTITUTE, ADD, OR DELETE ANY MATERIAL OR WORK AS THE WORK PROGRESSES. ADJUSTMENTS TO THE CONTRACT PRICE SHALL BE NEGOTIATED IF DEEMED NECESSARY BY THE OWNER ON A PER DIEM BASIS.

8. THE OWNER RESERVES THE RIGHT TO REJECT MATERIAL OR WORK WHICH DOES NOT CONFORM TO THE CONTRACT DOCUMENTS. REJECTED WORK SHALL BE REMOVED OR CORRECTED AT THE EARLIEST TIME POSSIBLE.

9. WORK SCHEDULE: WITHIN 10 DAYS AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT TO THE OWNER A WORK SCHEDULE.

10. "AS-BUILT" IRRIGATION DRAWINGS: PREPARE AN "AS-BUILT" DRAWING ON A FULL-SIZE PLAN SET WHICH SHALL SHOW DEVIATIONS FROM THE BID DOCUMENTS MADE DURING CONSTRUCTION AFFECTING THE MAIN LINE PIPE, CONTROLLER LOCATIONS, REMOTE CONTROL VALVES AND QUICK COUPLING VALVES. THE DRAWINGS SHALL ALSO INDICATE AND SHOW APPROVED SUBSTITUTIONS OF SIZE, MATERIAL AND MANUFACTURERS NAME AND CATALOG NAME AND CATALOG NUMBER. THE DRAWINGS SHALL BE DELIVERED TO THE TENANT'S CONSTRUCTION REPRESENTATIVE BEFORE FINAL ACCEPTANCE OF WORK.

11. FINAL ACCEPTANCE: FINAL ACCEPTANCE OF THE WORK MAY BE OBTAINED FROM THE OWNER'S CONSTRUCTION REPRESENTATIVE UPON THE SATISFACTORY COMPLETION OF ALL WORK.

12. GUARANTEE: ALL WORK SHALL BE GUARANTEED FOR ONE YEAR FROM DATE OF ACCEPTANCE AGAINST ALL DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP. GUARANTEE SHALL ALSO COVER REPAIR OF DAMAGE TO ANY PART OF THE PREMISES RESULTING FROM LEAKS OR OTHER DEFECTS IN MATERIAL, EQUIPMENT AND WORKMANSHIP TO THE SATISFACTION OF THE TENANT'S CONSTRUCTION REPRESENTATIVE. REPAIRS, IF REQUIRED, SHALL BE DONE PROMPTLY AT NO COST TO THE OWNER.

13. A LAMINATED PLAN (8 1/2 X 11) SHOWING THE DIFFERENT IRRIGATION ZONES IN COLOR, PREPARED BY THE IRRIGATION CONTRACTOR, SHALL BE POSTED IN THE MECHANICAL ROOM OR WITHIN CONTROLLER CABINET.

C. MATERIALS:

1. GENERAL: ALL MATERIALS THROUGHOUT THE SYSTEM SHALL BE NEW AND IN PERFECT CONDITION.

2. PLASTIC PIPING: ALL MAIN LINES AND LATERAL LINES SHALL BE CLASS 200 POLYVINYL CHLORIDE (PVC) PIPE AND SHALL COMPLY WITH ONE OF THE FOLLOWING STANDARDS: ASTM D 1785, ASTM D-2241, AWWA C-900, OR AWWA C-905. SDR-PR PIPE SHALL HAVE A MINIMUM WALL THICKNESS AS REQUIRED BY SDR-26. GASKETS FITTINGS SHALL CONFORMING TO ASTM D 3139. GASKETS SHALL CONFORM TO ASTM F 477. SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. THREADED PVC PIPE FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2464. CONFORMING TO ASTM D-1784 AND D-2241.

3. PLASTIC FITTINGS: ALL SOLVENT-WELD PVC FITTINGS SHALL MEET THE REQUIREMENTS OF SCHEDULE 40 AS SET FORTH IN ASTM D 2466. SCHEDULE 40 SOLVENT-WELD, POLYVINYL CHLORIDE (PVC) STANDARD WEIGHT AS MANUFACTURED BY SLOANE, LASCO, OR APPROVED EQUAL.

4. SOLVENT CEMENT: PVC CEMENT SHALL MEET ASTM D 2564 AND PVC CLEANER-TYPE SHALL MEET ASTM F 656.

5. SPRINKLER HEAD RISERS: SCHEDULE 40 PVC FOR RISERS. PIPE SHALL BE CUT WITH A STANDARD PIPE CUTTING TOOL WITH SHARP CUTTERS. REAM ONLY TO FULL DIAMETER OF PIPE AND CLEAN ALL ROUGH EDGES OR BURRS. CUT ALL THREADS ACCURATELY WITH SHARP DIES. NOT MORE THAN THREE(3) FULL THREADS SHALL SHOW BEYOND FITTINGS WHEN PIPE IS MADE UP. ASSEMBLIES SHALL BE AS DETAILED.

6. AUTOMATIC CONTROLLER: SEE LEGEND.

7. REMOTE CONTROL VALVES: SEE LEGEND.

8. CONTROL WIRING: CONVENTIONAL SYSTEMS TO USE 24 VOLT SOLID UL APPROVED FOR DIRECT BURIAL IN GROUND. MINIMUM WIRE SIZE: 14 GAUGE. ALL SPLICES SHALL BE MADE WITHIN VALVE BOX. TWO-WIRE SYSTEMS TO UTILIZE CONTROL WIRING PER MANUFACTURER STANDARDS.

9. SLEEVES FOR CONTROL WIRING: UNDER ALL WALKS AND PAVED AREAS AND WHERE INDICATED ON DRAWINGS. MINIMUM PVC SCHEDULE 40 PLASTIC PIPE.

10. SPRINKLER HEADS/ DRIP LINE: SEE LEGEND.

11. QUICK COUPLING VALVES: SHALL BE NOTED ON DRAWINGS.

D. WORKMANSHIP:

1. LAY OUT WORK AS ACCURATELY AS POSSIBLE TO THE DRAWINGS. THE DRAWINGS, THOUGH CAREFULLY DRAWN, ARE GENERALLY DIAGRAMMATIC TO THE EXTENT THAT SWING JOINTS, OFFSETS, AND ALL FITTINGS ARE NOT SHOWN.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FULL AND COMPLETE COVERAGE OF ALL IRRIGATED AREAS AND SHALL MAKE ANY NECESSARY MINOR ADJUSTMENTS AT NO ADDITIONAL COST TO THE OWNER'S CONSTRUCTION REPRESENTATIVE.

3. ANY MAJOR REVISIONS TO THE IRRIGATION SYSTEM MUST BE SUBMITTED AND ANSWERED IN WRITTEN FORM, ALONG WITH ANY CHANGE IN CONTRACT PRICE.

E. INSTALLATION:

1. EXCAVATION AND TRENCHING:

   a. PERFORM ALL EXCAVATIONS AS REQUIRED FOR THE INSTALLATION OF THE WORK INCLUDING UNDER THIS SECTION, INCLUDING SHORING OF EARTH BANKS TO PREVENT CAVE-INS, RESTORE ALL SURFACES, EXISTING UNDERGROUND INSTALLATIONS, ETC., DAMAGED OR CUT AS A RESULT OF THE EXCAVATIONS TO AND IN A MANNER APPROVED BY THE OWNER.

   b. TRENCHES SHALL BE MADE WIDE ENOUGH TO ALLOW A MINIMUM OF 6 INCHES BETWEEN PARALLEL PIPE LINES. TRENCHES FOR PIPE LINES SHALL BE MADE OF SUFFICIENT DEPTHS TO PROVIDE THE MINIMUM COVER FROM FINISH GRADE AS FOLLOWS:

      1) 24" MINIMUM BELOW BOTTOM PAVEMENT PER SLEEVING INSTALLATION DETAIL FOR MAIN LINE,18" MINIMUM FOR NON-PRESSURIZED LATERALS.

      2) MINIMUM COVER OVER IRRIGATION LINES TO HEADS/ DRIPLINE EXCEPT VEHICLE TRAFFIC AREAS ARE AS FOLLOWS:
      12" COVER OVER LATERALS
      18" COVER OVER MAINLINE.

   c. MAINTAIN ALL WARNING SIGNS, SHORING, BARRICADES, FLARES AND RED LANTERNS AS REQUIRED BY THE SAFETY ORDERS OF THE DIVISION OF INDUSTRIAL SAFETY AND LOCAL ORDINANCES.

2. PIPE LINE ASSEMBLY:

   a. INSTALL REMOTE CONTROL VALVES WHERE SHOWN AND GROUP TOGETHER WHERE PRACTICAL, PLACE NO CLOSER THAN 12-18 INCHES TO WALK EDGES, WALLS, AND OTHER PAVEMENTS. PLACE A MINIMUM OF 24" FROM BUILDINGS.

   b. PLASTIC PIPE AND FITTINGS SHALL BE SOLVENT WELDED USING SOLVENTS AND METHODS RECOMMENDED BY MANUFACTURER OF THE PIPE, EXCEPT WHERE SCREWED CONNECTIONS ARE REQUIRED. PIPE AND FITTINGS SHALL BE THOROUGHLY CLEANED OF DIRT, DUST AND MOISTURE BEFORE APPLYING SOLVENT WITH A NON-SYNTHETIC BRISTLE BRUSH.

   c. PIPE MAY BE ASSEMBLED AND WELDED ON THE SURFACE. SNAKE PIPE FROM SIDE TO SIDE OF TRENCH BOTTOM TO ALLOW FOR EXPANSION AND CONTRACTION.

   d. MAKE ALL CONNECTIONS BETWEEN PLASTIC PIPE AND METAL VALVES OR STEEL PIPE WITH THREADED FITTINGS USING PLASTIC MALE ADAPTERS.

   e. JOINTS:

      1) PIPE SIZES 2 1/2 INCH OR SMALLER SHALL HAVE BELL AND SOCKET JOINTS.

      2) PIPE SIZES LARGER THAN 2 1/2 INCH SHALL HAVE SNAP CONNECTIONS WITH RUBBER GASKET JOINTS.
      3) THRUST BLOCKING SHALL BE REQUIRED WHEN PIPE SIZE IS 4" OR GREATER.

3. SPRINKLER HEADS/ DRIPLINE:

   a. INSTALL ALL SPRINKLERS/ DRIPLINE AS DETAILED ON DRAWINGS.

   b. DO NOT SCALE PLANS FOR EXACT HEAD LOCATION.

4. CLOSING OF PIPE AND FLUSHING LINES:

   a. CAP OR PLUG ALL OPENINGS AS SOON AS LINES HAVE BEEN INSTALLED TO PREVENT THE ENTRANCE OF MATERIALS THAT WOULD OBSTRUCT THE PIPE. LEAVE IN PLACE UNTIL REMOVAL IS NECESSARY FOR COMPLETION OF INSTALLATION.

   b. THOROUGHLY FLUSH OUT ALL WATER LINES BEFORE INSTALLING HEADS, DRIPLINE, VALVES AND OTHER HYDRANTS.

   c. TEST IN ACCORDANCE WITH PARAGRAPH ON HYDROSTATIC TESTS.

   d. UPON COMPLETION OF THE TESTING, THE CONTRACTOR SHALL COMPLETE ASSEMBLY AND ADJUST SPRINKLER HEADS FOR PROPER DISTRIBUTION.

5. INSPECTIONS:

   a. SPRINKLER/ DRIPLINE LAYOUT AND SPACING INSPECTION: VERIFICATION THAT THE IRRIGATION DESIGN IS ACCURATELY INSTALLED IN THE FIELD. IT WILL ALSO PROVIDE FOR ALTERATION OR MODIFICATION OF THE SYSTEM TO MEET FIELD CONDITIONS. SPACING SHOULD BE WITHIN 5% OF THE DESIGN SPACING.

   b. PIPE INSTALLATION DEPTH INSPECTION: ALL PIPES IN THE SYSTEM SHALL BE INSTALLED TO DEPTHS AS PREVIOUSLY DESCRIBED IN SECTION 'E' OF THESE SPECIFICATIONS.

   c. OPEN TRENCH INSPECTION: THE TRENCH AND ALL JOINTS AND EVERY TRANSITION IN PIPE SIZE, WILL BE OPEN WHERE OPEN TRENCH INSPECTION IS REQUIRED.

   d. INSPECTIONS WILL BE PERFORMED THROUGHOUT THE DURATION OF THE INSTALLATION. INSPECTION MAY BE MADE BY THE GOVERNING AGENCY/ OWNER TO ENSURE COMPLIANCE WITH DESIGN INTENT, SPECIFICATIONS, AND THE IRRIGATION CODES.

6. HYDROSTATIC TESTS:

   a. REQUEST THE PRESENCE OF THE OWNER AND/OR OWNERS REPRESENTATIVE IN WRITING AT LEAST 48 HOURS IN ADVANCE OF TESTING.

   b. TESTING TO BE ACCOMPLISHED AT THE EXPENSE OF THE CONTRACTOR AND IN THE PRESENCE OF THE OWNER.

   c. CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE.

   d. APPLYING A CONTINUOUS AND STATIC WATER PRESSURE OF 125 PSI WHEN WELDED PLASTIC JOINTS HAVE CURED AT LEAST 3 HOURS AND WITH THE RISERS CAPPED AS FOLLOWS:
      1) MAIN LINES AND SUBMAINS TO BE TESTED FOR 2 HOURS.

      2) NO PRESSURE LOSS IS ALLOWED FOR SOLVENT WELD MAINLINE/ PIPE.

   e. FOR PVC AND O-RING GASKET PIPE THE ALLOWABLE LEAKAGE SHALL NOT EXCEED THE NUMBER OF GALLONS PER HOUR AS DETERMINED BY THE FOLLOWING FORMULA:

$$L=\frac{NPD^{2/3}}{1,850}$$

IN WHICH:

L=ALLOWABLE LEAKAGE, IN GALLONS PER HOUR
N=NUMBER OF JOINTS
D=PIPE DIAMETER IN INCHES
P=AVERAGE TEST PRESSURE IN PSI GAUGE.

   f. REPAIR LEAKS RESULTING FROM TESTS.

7. AUTOMATIC CONTROLLERS:

   a. CONNECT REMOTE CONTROL VALVES TO CONTROLLER IN A CLOCKWISE SEQUENCE TO CORRESPOND WITH STATION SETTING BEGINNING WITH STATIONS 1, 2, 3, ETC.

8. AUTOMATIC CONTROL WIRING:

   a. INSTALL CONTROL WIRING, SPRINKLER MAINS AND LATERALS IN COMMON TRENCHES WHEREVER POSSIBLE.

   b. INSTALL CONTROL WIRES AT LEAST 18" BELOW FINISHED GRADE AND SNAKE WIRE SIDE TO SIDE IN TRENCH BELOW MAIN LINE. EXPANSION CURLS SHALL BE PROVIDED WITHIN THREE (3') FEET OF EACH WIRE CONNECTION TO SOLENOID AND AT LEAST EVERY THREE HUNDRED (300') FEET IN LENGTH. (EXPANSION CURLS ARE FORMED BY WRAPPING AT LEAST FIVE (5) TURNS OF WIRE AROUND A ROD OR PIPE 1" OR MORE IN DIAMETER, THEN WITHDRAWING THE ROD).

   c. CONTROL WIRE SPLICES WILL BE ALLOWED ONLY RUNS OVER 1000 FT. CONNECTIONS SHALL BE IN VALVE BOX AND LOCATION TO BE SHOWN ON AS-BUILT PLANS.

   d. ALL WIRING PASSING UNDER EXISTING OR FUTURE PAVING, CONSTRUCTION, ETC., SHALL BE ENCASED IN PLASTIC OR GALVANIZED STEEL CONDUIT EXTENDING AT LEAST 24" BEYOND EDGES OF PAVING OR CONSTRUCTION.

   e. CONTRACTOR SHALL RUN TWO SPARE WIRES IN EACH DIRECTION FROM CONTROLLER TO FARTHEST VALVE TO SERVE AS BACKUP WIRES.

9. BACKFILL AND COMPACTING:

   a. AFTER SYSTEM IS OPERATING AND REQUIRED TESTS AND INSPECTIONS HAVE BEEN MADE, BACKFILL EXCAVATIONS AND TRENCHES WITH CLEAN SOIL, FREE OF RUBBISH. INITIAL BACKFILL MATERIAL TO 6 INCHES ABOVE THE TOP OF PIPE SHALL BE FREE OF ROCKS OR STONES LARGER THAN ONE INCH IN DIAMETER FINAL BACKFILL MATERIAL SHALL BE FREE OF ROCKS OR STONES LARGER THAN 3 INCHES IN DIAMETER.

   b. BACKFILL FOR ALL TRENCHES, REGARDLESS OF THE TYPE OF PIPE COVERED, SHALL BE COMPACTED TO MINIMUM 90% DENSITY.

   c. COMPACT TRENCHES IN AREAS TO BE PLANTED BY THOROUGHLY FLOODING THE BACKFILL. JETTING PROCESS MAY BE USED IN THOSE AREAS.

   d. DRESS OFF ALL AREAS TO FINISH GRADES.

10. PROTECTIVE RADIUS OF EXISTING TREES:

   a. AN AUGER IS TO BE USED TO TUNNEL UNDER EXISTING TREES IF IRRIGATION IS INSTALLED WITHIN THE PROTECTIVE RADIUS OF EXISTING TREES AND ONLY IF THERE IS NO OTHER OPTION OR TO DO SO CREATES AN UNREASONABLE HARDSHIP.

F. CLEAN-UP:

1. REMOVE FROM THE SITE ALL DEBRIS RESULTING FROM WORK OF THIS SECTION.

END SECTION

1. IRRIGATION CONTROLLER PER PLAN
2. CONCRETE CONTROLLER PAD
3. PVC ELL SWEEP, 1-1/2-IN MIN.
4. 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE
5. GROUND ROD SHALL BE 5/8-IN DIAMETER X 8-FT LONG COPPER CLAD STEEL GROUND RODS WITH 15-FT PRE-WELDED #6 AWG INSULATED GREEN-YELLOW WIRE
6. ROUND VALVE BOX WITH 'GR' HEAT WELDED ON LID IN 2-IN LETTERS
7. 4-IN X 8-FT X 0.0625-IN SOLID COPPER GROUNDING PLATE, WITH 25-FT CONTINUOUS LENGTH OF 6 AWG, GREEN INSULATED, WITH EXTRUDED YELLOW STRIPE, SOLID BARE COPPER WIRE WELDED TO THE PLATE
8. TWO 50-LB BAGS OF POWERSET EARTH CONTACT MATERIAL FOR POROUS SOILS OR TWO 50-LB BAGS OF POWERFILL EARTH CONTACT MATERIAL FOR NON-POROUS SOILS INSTALLED TO INSURE 100% COVERAGE OF GROUND PLATE
9. MIRAFI 180N FILTER FABRIC
10. SPHERE OF INFLUENCE BOUNDARY SPANNING 8-FT IN ALL DIRECTIONS IN EARTH FROM GROUND ROD
11. FINISHED GRADE

A. CONTRACTOR SHALL INSTALL GROUNDING IN ACCORDANCE TO MANUFACTURERS SPECIFICATIONS AND LOCAL CODES AND REQUIREMENTS

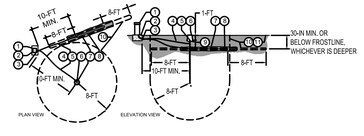
B. SPHERE OF INFLUENCE SHALL REMAIN FREE AND CLEAR OF WIRES, CABLES, ELECTRONIC EQUIPMENT, AND ANY EQUIPMENT THAT MAY BE DAMAGED DURING AN ELECTRICAL SURGE EVENT

C. GROUND ROD SHALL BE DRIVEN INTO THE GROUND IN A VERTICAL POSITION OR AN OBLIQUE ANGLE NOT TO EXCEED 45 DEGREES AT A LOCATION 10-FT FROM THE ELECTRONIC EQUIPMENT. THE GROUND PLATE, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED

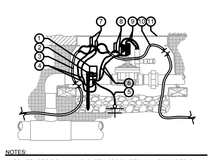
D. GROUND PLATE SHALL BE INSTALLED IN HORIZONTAL FLAT POSITION AT A LOCATION 10-FT FROM THE ELECTRONIC EQUIPMENT, THE GROUND ROD, OR THE WIRES AND CABLES CONNECTED TO EQUIPMENT BEING GROUNDED

E. CONTRACTOR SHALL INSURE 10HMS OR LESS RESISTANCE BETWEEN GROUND ROD AND CONTROLLER; MULTIPLE GROUND CONNECTIONS MAY BE NEEDED TO ACHIEVE 10 OHMS OR LESS RESISTANCE

F. CONTRACTOR SHALL INSTALL GROUNDING CIRCUIT COMPONENTS IN STRAIGHT LINES AVOIDING SHARP TURNS



CONTROLLER GROUNDING — Scale: N.T.S. — C



NOTES:

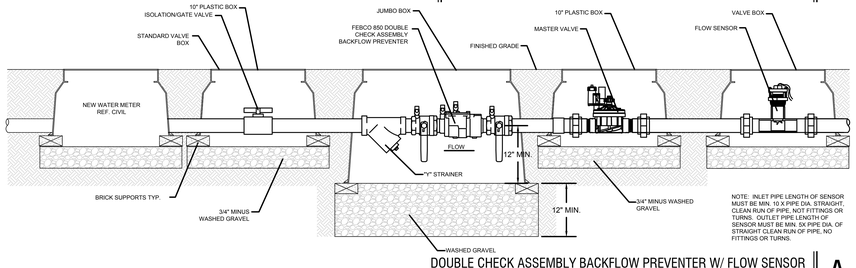
A. CONTRACTOR SHALL INDICATE ASSOCIATED VALVE NUMBER(S) ON MANUFACTURER PROVIDED LABEL ON DECODER WITH PERMANENT MARKET

B. CONTRACTOR SHALL LOCATE SPLICE WITH IDWIRE AND DECODER OUTPUT IN THE MIDDLE OF 36-IN(1-M) D WIRE LOOP IN VALVE BOX

C. CONTRACTOR SHALL CONNECT BARE COPPER GROUND WIRE FROM DECODER OUTPUT TO GROUND DEVICE WIRE USING ERICO PG11L KIT

1. HUNTER DECODER (ICD-100) PER PLAN
2. HUNTER DECODER STAKE (DECRSTAKE-10) DRIVEN INTO VALVE BOX BASE TO SECURE DECODER IN PLACE WITH BOTTOM OF DECODER FACING UP AND FASTENED TO STAKE USING TWO (2) ZIP TIES
3. INCOMING HUNTER JACKETED IDWIRE PATH PER PLAN WITH 36-IN TOTAL LOOP OF SLACK WIRE
4. RED AND BLUE WIRES FROM DECODER TO IDWIRE SPLICES
5. BARE COPPER GROUND WIRE FROM DECODER TO GROUNDING DEVICE
6. STATION WIRE FROM DECODER OUTPUT TO VALVE SOLENOID WIRES
7. IDWIRE PATH SPLICE WITH DECODER OUTPUT USING 3M DBRY/6
8. VALVE SOLENOID WIRE SPLICE WITH DECODER OUTPUT USING 3M DBRY/6
9. VALVE SOLENOID WIRE WITH 18-IN COIL TO SPLICE WITH DECODER OUTPUT
10. OUTGOING HUNTER JACKETED IDWIRE PATH PER PLAN WITH 36-IN TOTAL LOOP OF SLACK WIRE
11. IRRIGATION VALVE, VALVE BOX AND RELATED ITEMS

ICD 100 DECODER — Scale: N.T.S. — B



NOTE: INLET PIPE LENGTH OF SENSOR MUST BE MIN. 10 X PIPE DIA. STRAIGHT, CLEAN RUN OF PIPE, NOT FITTINGS OR TURNS. OUTLET PIPE LENGTH OF SENSOR MUST BE MIN. 5X PIPE DIA. OF STRAIGHT CLEAN RUN OF PIPE, NO FITTINGS OR TURNS.

DOUBLE CHECK ASSEMBLY BACKFLOW PREVENTER W/ FLOW SENSOR — Scale: N.T.S. — A

HDR, INC.
1917 SOUTH 67th STREET
OMAHA, NE 68106
(402) 399-1000

KIMLEY-HORN & ASSOCIATES, INC.
1437 S BOULDER AVE.
TULSA, OK 74119
(918) 380-8868

STATE OF OKLAHOMA — DARWIN SCOTT — #362 — LICENSED LANDSCAPE ARCHITECT — 04/03/2026

CONFIDENTIAL CLIENT
ISSUE FOR CONSTRUCTION

KEYPLAN

REVISIONS			DRAWN:
NO.	DATE	DESCRIPTION	AEA
	2026-04-03	ISSUE FOR CONSTRUCTION - SPS	
			APPRV'D:
			DAS

CYL1A

PROJECT ADDRESS:
TULSA COUNTY, OK

PROJ. NO.: 10434525

IRRIGATION DETAILS

SCALE: AS SHOWN

SHEET NUMBER:
1A-L-9701

PAPER SIZE: E (36"x48")
PHASE:ISSUE FOR CONSTRUCTION - SPS