

LARGE SCALE DEVELOPMENT PLANS
FOR
CALVARY CHURCH ADDN.
ISSUED FOR REVIEW

2612 E CENTRAL AVE
BENTONVILLE, AR
JULY 2025

ENGINEER

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GOVERNING AGENCIES

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OR 305 SW A STREET
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CITY PLANNING
CONTACT: TYLER OVERSTREET
PHONE: (479) 271-3122

STREET DEPARTMENT
CONTACT: TONY DAVIS
PHONE: (479) 271-3130

PUBLIC WORKS
CONTACT: MIKE BENDER
PHONE: (479) 271-6720

CITY ENGINEER
CONTACT: ELLEN NORVELL
PHONE: (479) 271-5993

BUILDING & FIRE SAFETY
CONTACT: BRAD ARNOLD
PHONE: (479) 271-3108

STORMWATER
CONTACT: ALISON WEST
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AT&T
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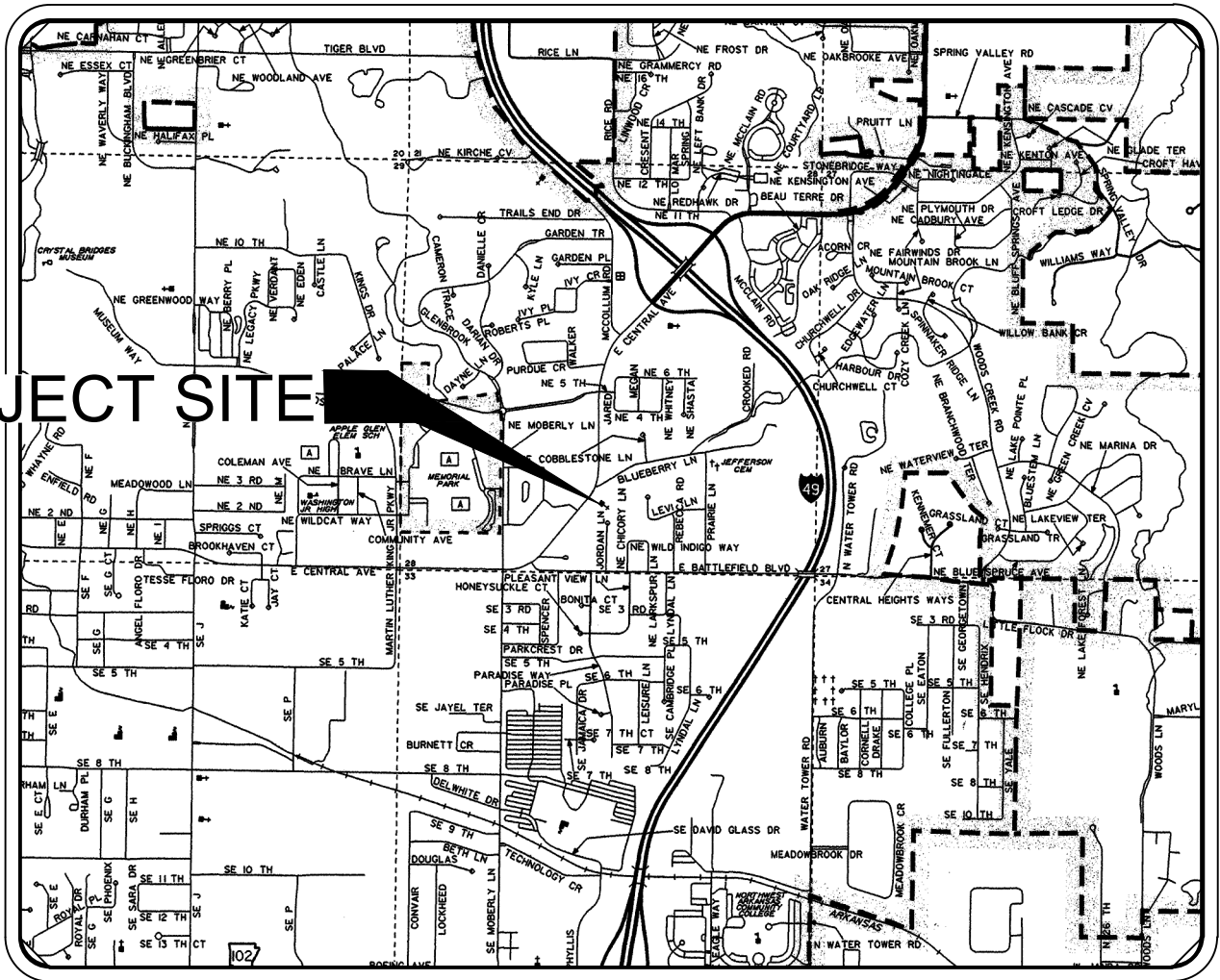
WATER & SEWER
CITY OF BENTONVILLE
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3200 S.W. MUNICIPAL DRIVE
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CABLE TELEVISION
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FIRE DEPARTMENT
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800 SW A STREET
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PHONE: (479) 271-5927
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DEPARTMENT OF HEALTH
ARKANSAS DEPARTMENT OF HEALTH
DIVISION OF ENGINEERING, SLOT 37
4815 W. MARKHAM
LITTLE ROCK, AR 72205
PHONE: (501) 661-2623



PROJECT MAP

NOT TO SCALE

OWNER/CLIENT:
CALVARY CHURCH

2612 E CENTRAL AVE
BENTONVILLE, AR 72712
TEL. 479-633-1627

PREPARED BY:



2407 SE COTTONWOOD
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BENTONVILLE STANDARD NOTES:

- THESE PLANS HAVE BEEN REVIEWED BY THE CITY FOR CONCEPT ONLY. THE REVIEW DOES NOT IMPLY RESPONSIBILITY BY THE REVIEWING DEPARTMENT, THE CITY ENGINEER, OR THE CITY FOR ACCURACY AND CORRECTNESS OF THE CALCULATIONS. FURTHERMORE, THE REVIEW DOES NOT IMPLY THAT QUANTITIES OF ITEMS ON THE PLANS ARE THE FINAL QUANTITIES REQUIRED. THE REVIEW SHALL NOT BE CONSTRUED FOR ANY REASON AS ACCEPTANCE OF FINANCIAL RESPONSIBILITY BY THE CITY FOR ADDITIONAL QUANTITIES OF ITEMS SHOWN THAT MAY BE REQUIRED DURING THE CONSTRUCTION PHASE.
- THE CITY OF BENTONVILLE STREET STANDARDS, DRAINAGE CRITERIA MANUAL, SUBDIVISION ORDINANCE, WATER, SEWER, ELECTRIC UTILITY SPECIFICATIONS, AND STATE CODE SHALL GOVERN THESE PLANS. IF THERE ARE DISCREPANCIES IN THE PLANS OR INFORMATION CONTAINED WITHIN, CITY OF BENTONVILLE ORDINANCES, STANDARDS, AND SPECIFICATIONS SHALL RULE, UNLESS, APPROVED IN WRITING BY THE CITY ENGINEER.
- TO SCHEDULE AN INSPECTION OR TEST WITH THE CITY OF BENTONVILLE ENGINEERING DEPARTMENT, INSPECTIONS MUST BE CALLED IN (479-271-3168) BY THE ENGINEER OF RECORD 24 HOURS IN ADVANCE BEFORE 10 AM FOR AN INSPECTION THE FOLLOWING DAY.
- THE ENGINEER OF RECORD MUST CERTIFY THE SITE AND THE PROJECT MUST PASS A DEVELOPMENT FINAL SITE INSPECTION BEFORE REQUESTING A BUILDING FINAL INSPECTION.
- PRE-PAVE PRECON WILL BE REQUIRED BEFORE PAVING OF STREETS. ALL TEST RESULTS AND INSPECTIONS TO BE VERIFIED AND IN FILE BEFORE REQUESTING PRE-PAVE PRECON. TRACER WIRE TO BE INSPECTED BEFORE PAVING.
- BORING OF STREETS IS REQUIRED WHEN THE EXISTING UTILITY RESIDES OUTSIDE OF THE ROAD WAY
- ALL TREES WITHIN THE PUBLIC RIGHT-OF-WAY SHALL BE PRESERVED UNLESS OTHERWISE APPROVED BY THE DIRECTOR OF COMMUNITY DEVELOPMENT PURSUANT TO ARTICLE 1300.07 OF THE MUNICIPAL CODE.

Sheet List Table

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G000	COVER
G001	NOTES AND LEGEND
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L102	LANDSCAPE DETAILS
--	BENTONVILLE WATER AND SEWER DETAILS

NO WAIVERS OR VARIANCES REQUESTED AT THIS TIME

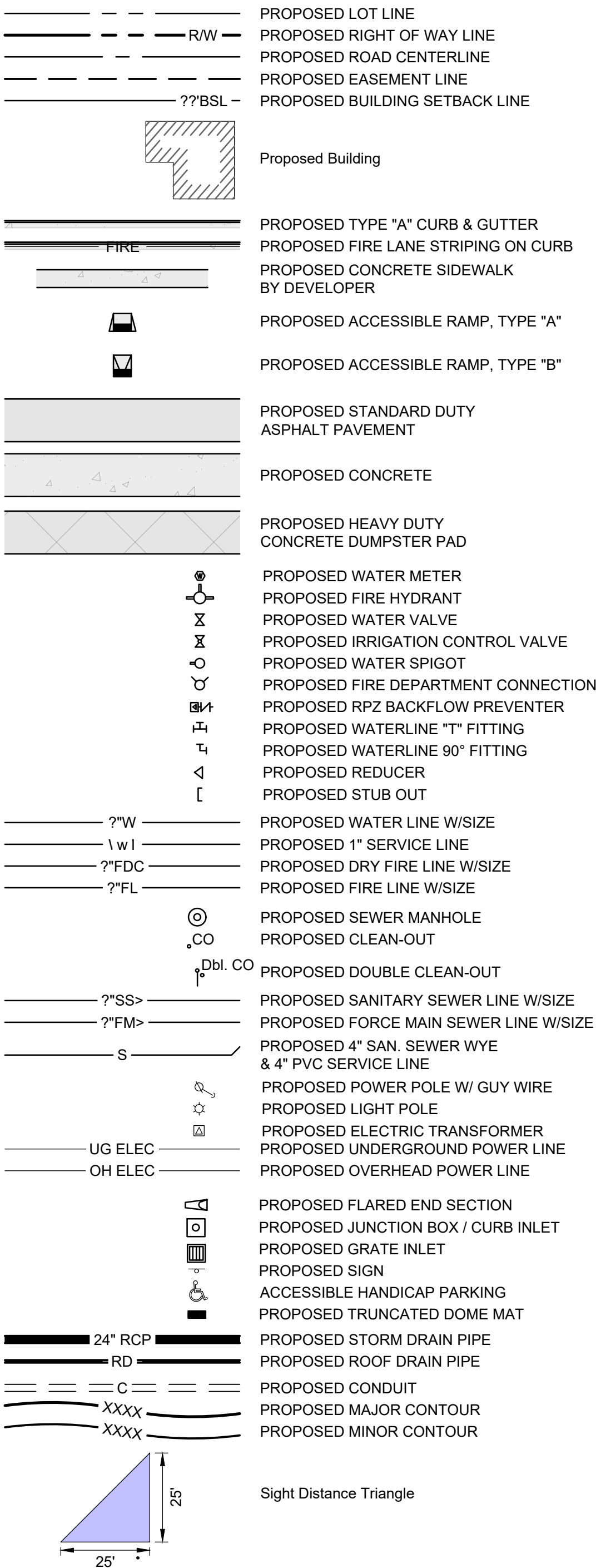
NOTE: THIS PROJECT IS NOT WITHIN THE AIRPORT ZONE



Know what's below.
Call before you dig.

THE INFORMATION SHOWN ON THESE DRAWINGS INDICATING SIZE, TYPE AND LOCATION OF UNDERGROUND, SURFACE, AND AERIAL UTILITIES IS NOT GUARANTEED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL CONTACT THE "ARKANSAS 811" SYSTEM AT 1-800-482-8998 48 HOURS PRIOR TO BEGINNING ANY EXCAVATION FOR EXISTING UTILITY LOCATIONS. THE CONTRACTOR SHALL ALSO BE FULLY RESPONSIBLE FOR FIELD VERIFYING LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES AFFECTED BY CONSTRUCTION FOR THIS PROJECT IN ORDER TO AVOID DAMAGING THOSE UTILITIES, AND SHALL IMMEDIATELY ARRANGE FOR REPAIR AND RESTORATION OF CONTRACTOR-DAMAGED UTILITIES TO THE UTILITY COMPANY'S APPROVAL AT THE EXPENSE OF THE CONTRACTOR.

LEGEND



- EX. BOUNDARY LINE
- EX. ADJACENT BOUNDARY LINE
- EX. RIGHT OF WAY LINE
- EX. EASEMENT LINE
- EX. ASPHALT
- EX. GRAVEL
- EX. GAS LINE
- EX. OVERHEAD ELECTRIC LINE
- EX. STORM DRAIN PIPE
- EX. FENCE LINE
- EX. DITCH LINE
- EX. TREE EDGE LINE

SET 1/2" REBAR W/ PS# 1507 CAP
SET MAG NAIL W/ PS# 1507 WASHER
EX. REBAR
EX. NAIL
EX. MONUMENT
EX. TELEPHONE PEDESTAL
EX. FIBER OPTIC PEDESTAL
EX. POWER POLE
EX. POWER POLE W/ GUY WIRE
EX. SIGN
EX. VAULT BOX
EX. SATELLITE DISH
EX. MAILBOX
EX. WATER LINE
EX. SANITARY SEWER LINE
EX. WATER METER
EX. FIRE HYDRANT
EX. WATER VALVE
EX. WATER SPIGOT

EX. WATER LINE
EX. SANITARY SEWER LINE
EX. WATER METER
EX. FIRE HYDRANT
EX. WATER VALVE
EX. WATER SPIGOT

SITE GENERAL NOTES:

1. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING ALL PHASES OF CONSTRUCTION OF THIS SITE. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND SHALL NOT BE LIMITED TO CONSTRUCTION WORKING HOURS.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO TAKE ALL PRECAUTIONS NECESSARY TO AVOID PROPERTY DAMAGE TO ADJACENT PROPERTIES DURING THE CONSTRUCTION PHASES OF THIS PROJECT.
3. ALL DIMENSIONS, UNLESS OTHERWISE NOTED, ARE TO THE BACK OF CURB, FACE OF BUILDING, EDGE OF PAVEMENT, OR CENTERLINE OF STRIPE. ALL RADII ARE 5' UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES INVOLVED IN PROJECT AND PAY ALL REQUIRED FEES AND COSTS.
5. UNLESS OTHERWISE NOTED, ALL CURB SHALL BE 6" TYPE "A" CONCRETE CURB AND GUTTER. REFER TO DETAIL SHEETS.
6. SEE ARCHITECTURAL PLANS FOR EXACT BUILDING DIMENSIONS AND LAYOUT.
7. ALL CONSTRUCTION SHALL CONFORM TO THE CITY DEVELOPMENT REGULATIONS.
8. ALL SIGNAGE, PAVEMENT MARKINGS, AND STRIPING SHALL CONFORM TO THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) STANDARDS AND REGULATIONS.
9. ALL PROPOSED SIGNAGE, IF ANY, WILL REQUIRE A SEPARATE PERMIT.
10. CONTRACTOR MUST OBTAIN A PERMIT PRIOR TO PERFORMING A STREET CUT WITHIN CITY RIGHT-OF-WAY. ALL CONSTRUCTION IN SAID RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH CITY DETAILS AND SPECIFICATIONS.
11. THERE MAY NOT BE FENCES OR ANY OTHER STRUCTURES BUILT IN ANY DRAINAGE EASEMENTS.
12. ALL PROPOSED FENCING, IF ANY, WILL REQUIRE A SEPARATE PERMIT.
13. ALL MECHANICAL EQUIPMENT (ROOF AND GROUND MOUNTED) WILL BE SCREENED ON ALL SIDES BY SIMILAR MATERIALS AS THE BUILDING.
14. FOR ALL RIGHT OF WAYS OPEN TO VEHICULAR TRAFFIC, CONTRACTOR SHALL PROVIDE A PEDESTRIAN AND BICYCLE ACCESSIBLE ROUTE DURING ALL PHASES OF CONSTRUCTION. LIMITED CLOSURES OF 24 HOURS OR LESS MAY BE APPROVED BY THE CITY ENGINEER.
15. ANY NEW LIGHTING WILL REQUIRE THAT IT BE CUT - OFF OR B-U-G (WITH A U RATING OF 0) AND APPROVED BY THE PLANNING DEPARTMENT. REFER TO MEP PLAN FOR SITE LIGHTING PLAN AND DETAILS
16. ANY WORK THAT REQUIRES SHUTTING DOWN UTILITIES OR CLOSURE OF ACCESS ROADS MUST BE COORDINATED WITH OWNER AND MAY REQUIRE AFTER HOURS SCHEDULING.

GRADING AND DRAINAGE GENERAL NOTES:

1. NO LAND CLEARING SHALL BEGIN UNTIL ALL EROSION CONTROL MEASURES HAVE BEEN INSTALLED. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ALL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL ALL CONTRIBUTING AREAS ARE GRADED AND STABILIZED.
2. ALL DISTURBED AREAS SHALL BE REINSTATED PER THE LANDSCAPE PLAN.
3. ALL STORM SEWER DISTANCES ARE FROM CENTER OF INLET TO CENTER OF INLET OR FROM CENTER OF INLET TO END OF FLARED-END-SECTION.
4. ALL EXISTING UTILITY VAULTS, VALVES, METERS, AND BOXES TO BE ADJUSTED TO FINISHED GRADES IN ACCORDANCE WITH CITY OF BENTONVILLE REGULATIONS AND TO THE CORRESPONDING UTILITY COMPANIES REQUIREMENTS.
5. NO FINISHED GRADE SLOPES SHALL EXCEED 3:1.
6. ALL SOILS UNDER THE BUILDING AND PAVEMENT SHALL BE STRUCTURAL FILL APPROVED BY THE SOILS ENGINEER. CONTRACTOR WILL BE REQUIRED TO PROVIDE PROCTOR TESTS TO BE REVIEWED/APPROVED BY THE SOILS ENGINEER.
7. FENCES ARE NOT ALLOWED WITHIN EXISTING OR PROPOSED DRAINAGE EASEMENTS.
8. ALL PROPOSED SIDEWALKS AND ACCESSIBLE RAMPS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2%
9. THERE ARE NO KNOWN EXISTING EROSION CONTROL PROBLEMS EXISTING ON THIS SITE.
10. THERE ARE NO KNOWN EXISTING WETLANDS ON THIS SITE.
11. ALL AREAS WITHIN THE PROPOSED RIGHT-OF-WAY, NOT UNDER PAVEMENT, SHALL BE GRADED SMOOTH, RECEIVE 6" TOPSOIL, & BE SEEDED UPON THE COMPLETION OF CONSTRUCTION OF THE IMPROVEMENTS, AND MAINTAINED UNTIL VEGETATION IS ACHIEVED. RE: LANDSCAPE PLAN
12. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL FENCING, TREES, DEBRIS, RUBBISH AND OTHER MATERIALS WITHIN THE LIMITS OF CONSTRUCTION. DISPOSAL SHALL BE IN ACCORDANCE WITH ALL LOCAL, STATE, AND/OR FEDERAL REGULATIONS GOVERNING SUCH OPERATIONS. CONTRACTOR SHALL PROTECT ALL TREES OUTSIDE THE LIMITS OF DISTURBANCE.

UTILITY GENERAL NOTES:

- EXISTING UTILITIES ACROSS OR ALONG THE LINE OF THE PROPOSED WORK ARE SHOWN ONLY IN AN APPROXIMATE LOCATION ON THESE PLANS. THE CONTRACTOR SHALL CALL THE STATE ONE-CALL SYSTEM PRIOR TO CONSTRUCTION @ 1-800-482-8998. THE CONTRACTOR SHALL, ON HIS OWN INITIATIVE AND AT NO ADDITIONAL COST, LOCATE ALL UNDERGROUND LINES AND STRUCTURES AS NECESSARY. THE CONTRACTOR SHALL VERIFY AND CALCULATE ALL POINTS OF CONNECTION AND ALL UTILITY CROSSINGS AND INFORM HALF ASSOCIATES, INC. AND/OR THE OWNER OF ANY CONFLICTS OR REQUIRED DEVIATIONS FROM THE PLANS. HALF ASSOCIATES, INC. SHALL BE HELD HARMLESS IN THE EVENT THE CONTRACTOR FAILS TO MAKE SUCH NOTIFICATION.
2. ALL ELECTRIC, TELEPHONE, AND GAS EXTENSIONS INCLUDING SERVICE LINES SHALL BE CONSTRUCTED TO THE APPROPRIATE UTILITY COMPANY SPECIFICATIONS AND REQUIREMENTS. ALL UTILITY COMPANY DISCONNECTIONS SHALL BE COORDINATED WITH THE DESIGNATED UTILITY COMPANY. CONTRACTOR SHALL FURTHER COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICE WITH ADJACENT PROPERTY OWNERS.
3. IT SHALL BE DISTINCTLY UNDERSTOOD THAT FAILURE TO SPECIFICALLY INDICATE WORK WHICH IS REQUIRED PRIOR TO COMPLETE THIS PROJECT SHALL NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO PERFORM SUCH.
4. THE CONTRACTOR SHALL NOT OPERATE VALVES ON EXISTING WATER MAINS. A PRECONSTRUCTION MEETING IS REQUIRED FOR ALL WATER AND SANITARY SEWER CONSTRUCTION.
5. ALL OUTDOOR LIGHTING SHALL HAVE "CUT-OFF" OR B-U-G FIXTURES (WITH A U RATING OF 0) AND APPROVED BY PLANNING DEPARTMENT IN ACCORDANCE WITH THE CITY OF BENTONVILLE REQUIREMENTS. REFER TO ARCHITECTURE AND MEP PLANS FOR LIGHT FIXTURE LOCATIONS, DETAILS, FIXTURE TYPES, AND LOCATION/NUMBER/SIZE OF CONDUIT SLEEVES.
6. BEUD DESIGN LAYOUT DRAWING TAKES PRECEDENCE OVER ANY ELECTRIC INFORMATION SHOWN ON THE SITE UTILITY PLAN. CONTRACTOR SHALL FOLLOW DESIGN ON BEUD DRAWINGS WHEN INSTALLING FACILITIES.
7. ALL PRIVATE UTILITIES SHALL BE A MINIMUM OF 4 FOOT FROM FOOTINGS. ALL PUBLIC UTILITIES SHALL BE A MINIMUM OF 10' FROM FOOTINGS.
8. GENERAL CONTRACTOR IS RESPONSIBLE TO INSTALL ELECTRICAL CONDUITS (1-1" SCH 40 PVC) AND SERVICE TO THE NEW AND RELOCATED PARKING LOT LIGHT POLES.
9. GENERAL CONTRACTOR IS RESPONSIBLE TO INSTALL ELECTRICAL CONDUITS (3-1" SCH 40 PVC) AND SERVICE TO THE NEW AND RELOCATED CONTROLLED ACCESS VEHICULAR GATES.
10. RELOCATION OF EXISTING ELECTRICAL FACILITIES SHALL BE BY BENTONVILLE ELECTRIC DEPARTMENT AT DEVELOPER'S EXPENSE. CONTRACTOR TO COORDINATE RELOCATION WITH BEUD. THE CONTRACTOR WILL BE RESPONSIBLE FOR INTERCEPTING EXISTING CONDUITS AND ROUTING TO TRANSFORMER LOCATION, RE: BEUD ELECTRIC PLAN.
11. CONTRACTOR SHALL COORDINATE AND COMPLY WITH ALL UTILITY COMPANIES REQUIREMENTS WHEN WORKING WITH, OR AROUND UTILITIES IN PROJECT AREA.
12. ALL TRENCHING AND BEDDING SHALL BE IN ACCORDANCE WITH THE CITY OF BENTONVILLE WATER AND SEWER SPECIFICATIONS. RE: "TYPICAL WATER AND SEWER BEDDING AND BACKFILL DETAIL".
13. STREET LIGHT LOCATION WILL BE DESIGNED BY BEUD. OWNER/DEVELOPER IS REQUIRED TO PAY FOR LIGHT PRIOR TO REQUESTING PRECON.
14. CONTACT BEUD AT 479-271-3135 BEFORE PERFORMING ANY GRADING WITHIN 5' OF EXISTING OR PROPOSED POWER POLES.
15. ELECTRIC FACILITIES SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST REVISIONS OF THE ELECTRIC SPECIFICATIONS FOUND ON THE WEBSITE. CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THIS DOCUMENT.
16. IF PIPE INVERT IS ABOVE EXISTING GRADE, ENGINEERED FILL IS REQUIRED TO BOTTOM OF BEDDING MATERIAL.
17. CONTRACTOR TO COORDINATE UTILITIES WITH MEP.
18. CONDENSATE AND ANY UN-METERED WATER ARE ADDRESSED AS A PROHIBITED DISCHARGE AND IS NOT APPROVED TO DISCHARGE INTO THE BENTONVILLE SANITARY SEWER SYSTEM
19. ALL NEW WATER CONNECTIONS SHALL BE TIED IN AFTER THE EXISTING BACKFLOW.
20. UTILITY IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE 2024 CITY OF BENTONVILLE WATER AND SEWER SPECIFICATIONS.

SPECIFICATIONS:

1. STREET IMPROVEMENTS: BENTONVILLE STREET SPECIFICATIONS DATED MAY 14, 2024
2. UTILITY IMPROVEMENTS: BENTONVILLE WATER AND SEWER SPECIFICATIONS DATED NOV. 15, 2024

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON
200 MUNICIPAL DR
CENTERTON, AR 72719

[illegible]

PRELIMINARY

FOR INTERIM REVIEW ONLY

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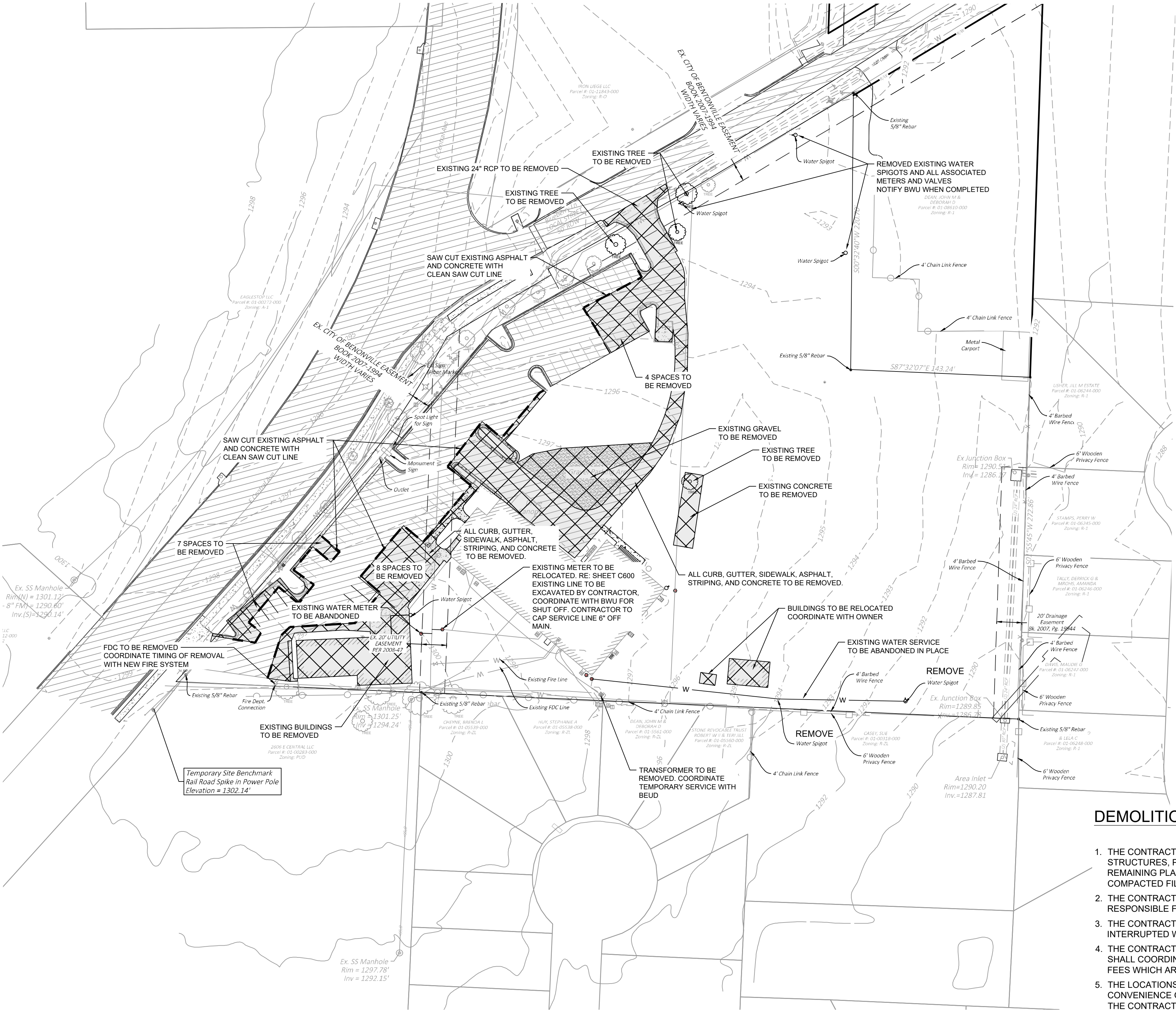
TOM BURRY	14691
NAME	PE LICENSE NO.
7/3/2025	
DATE	
1470	AR
FIRM / BUSINESS NO.	STATE

PROJECT NO.:	57802.001
ISSUED:	MARCH 2025
DRAWN BY:	KES
CHECKED BY:	PRF
SCALE:	NTS

NOTES AND LEGENDS

LSD25-0027

G001



LEGEND

EX. ASPHALT

EX. CONCRETE

EX. GRAVEL

EX. WATER METER

EX. FIRE HYDRANT

EX. WATER LINE

EX. SEWER MANHOLE

EX. SEWER CLEAN-OUT

EX. SANITARY SEWER LINE

EX. GAS METER

EX. GAS VALVE

EX. GAS LINE

EX. TELEPHONE PEDESTAL

EX. TELEPHONE LINE

EX. FIBER OPTIC PEDESTAL

EX. FIBER OPTIC LINE

EX. ELECTRIC PEDESTAL

EX. ELECTRIC TRANSFORMER

EX. VAULT BOX

EX. UNDERGROUND ELECTRIC LINE

EX. LIGHT POLE

EX. SIGN

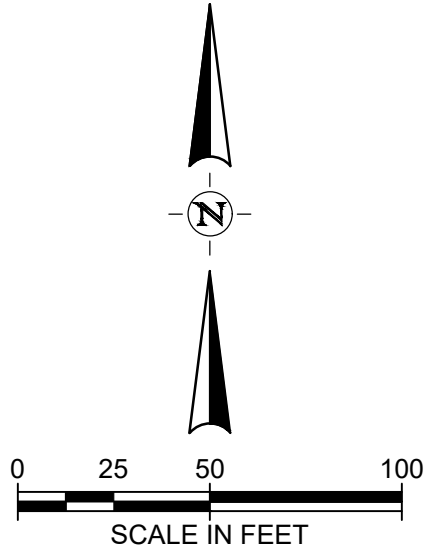
EX. JUNCTION BOX / CURB INLET

EX. STORM DRAIN PIPE

EX. BUILDING

PROPOSED SAW-CUT LINE

CONTRACTOR SHALL DEMOLISH AND DISPOSE OF BUILDINGS, FOUNDATIONS, CONCRETE WALKS, UTILITY SERVICE LINES, LANDSCAPING AND ALL APPURTENANCES ASSOCIATED WITH THESE ITEMS, WITHIN THE LIMITS OF CONSTRUCTION IN ACCORDANCE WITH LOCAL AND STATE REQUIREMENTS FOR DISPOSAL.



DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES, OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE, STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL PER THE SPECIFICATIONS.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN A LAWFUL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE OWNER AND SURROUNDING PROPERTY OWNERS AT ALL TIMES. UTILITY SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE RESPECTIVE UTILITY COMPANIES AND AFFECTED PROPERTY OWNERS.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
5. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THIS PLAN HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. PRIOR TO THE START OF ANY DEMOLITION ACTIVITY, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES FOR ONSITE LOCATIONS OF EXISTING UTILITIES.
6. ALL EXISTING SEWERS, PIPING AND UTILITIES SHOWN ARE NOT TO BE INTERPRETED AS THE EXACT LOCATION, OR AS THE ONLY OBSTACLES THAT MAY OCCUR ON THE SITE. VERIFY EXISTING CONDITIONS AND PROCEED WITH CAUTION AROUND ANY ANTICIPATED FEATURES.
7. PRIOR TO DEMOLITION OCCURRING, ALL RELEVANT EROSION CONTROL DEVICES ARE TO BE INSTALLED.
8. SHOULD REMOVAL AND/OR RELOCATION ACTIVITIES DAMAGE FENCING, LIGHTING, UTILITIES, STORM INLET STRUCTURES, ETC, THAT ARE DESIGNATED TO REMAIN, THEN THE CONTRACTOR SHALL PROVIDE NEW MATERIALS/ STRUCTURES IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. EXCEPT FOR MATERIALS DESIGNED TO BE RELOCATED ON THIS PLAN, ALL OTHER CONSTRUCTION MATERIALS SHALL BE NEW.
9. CONTRACTOR MAY LIMIT SAW-CUT & PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
10. THE CONTRACTOR SHALL COORDINATE WATER MAIN WORK WITH THE FIRE DEPT. AND CITY UTILITIES TO PLAN PROPOSED IMPROVEMENTS AND TO ENSURE ADEQUATE FIRE PROTECTION IS CONSTANTLY AVAILABLE TO THE SURROUNDING PROPERTY OWNERS AND SITE THROUGH OUT THIS SPECIFIC WORK AND THROUGH ALL PHASES OF CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR ARRANGING/PROVIDING ANY REQUIRED WATER MAIN SHUT OFFS WITH CITY UTILITIES DURING CONSTRUCTION. ANY COSTS ASSOCIATED WITH WATER MAIN SHUT OFFS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND NO EXTRA COMPENSATION WILL BE PROVIDED.
11. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT CONTRACTOR'S EXPENSE.
12. ANY WORK THAT REQUIRES SHUTTING DOWN UTILITIES OR CLOSURE OF ACCESS ROADS MUST BE COORDINATED WITH OWNER AND MAY REQUIRE AFTER HOURS SCHEDULING.

PARKING SUMMARY

NUMBER OF EXISTING SPACES	75
NUMBER OF REMOVED SPACES	19
SPACES TO REMAIN	56

CALVARY CHURCH ADDN.

BENTONVILLE, AR

PASTOR CHANTRY DEAN

2612 E CENTRAL AVE.
BENTONVILLE, AR 72712



2407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL: (479) 275-2209

REVISION NO.	DATE	DESCRIPTION

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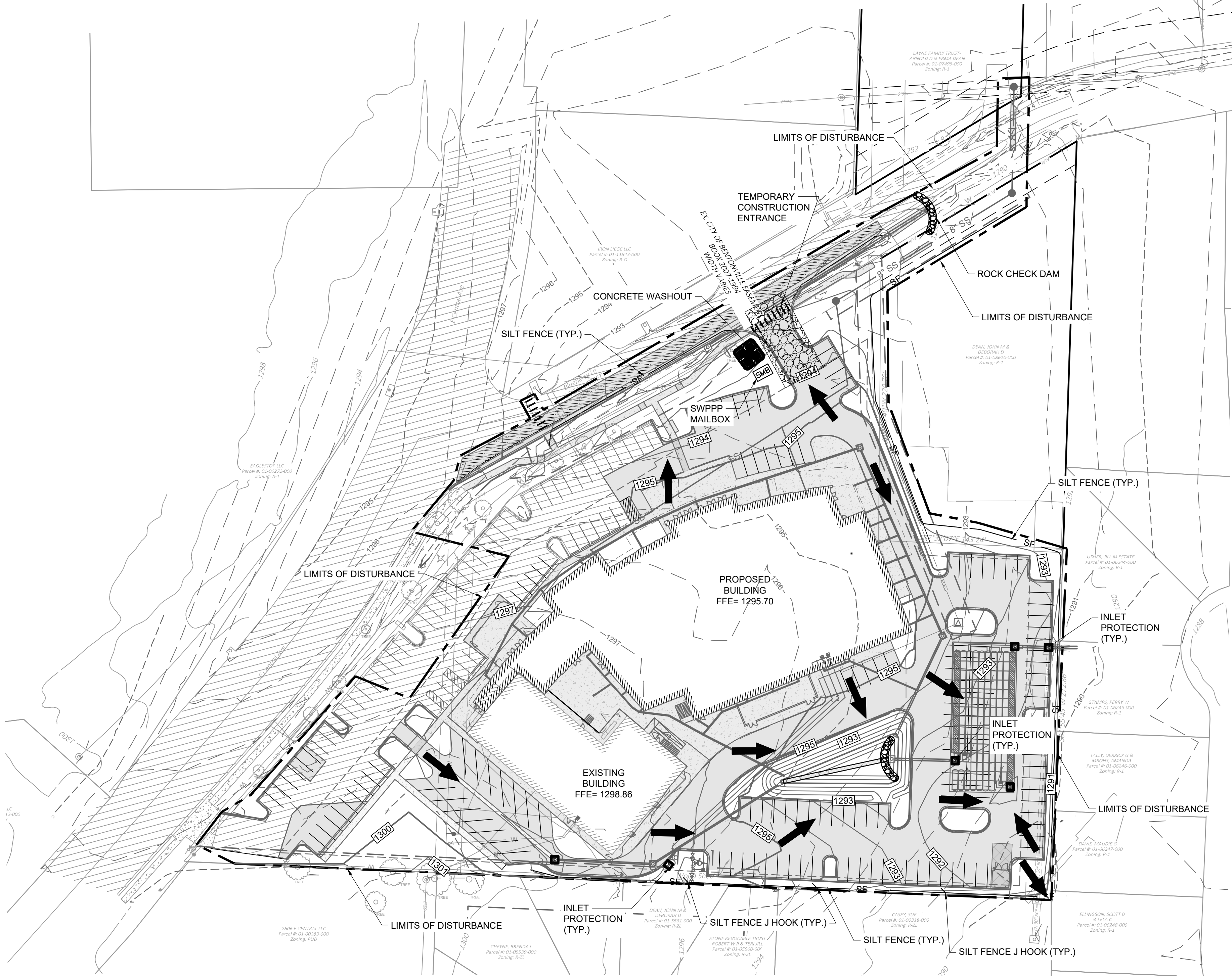
TOM BURRY	14691
NAME	PE LICENSE NO.
7/3/2025	
DATE	
1479	AR
FIRM / BUSINESS NO.	STATE

PROJECT NO.: 57802.001
ISSUED: 04-11-2024
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 50'
SHEET TITLE:

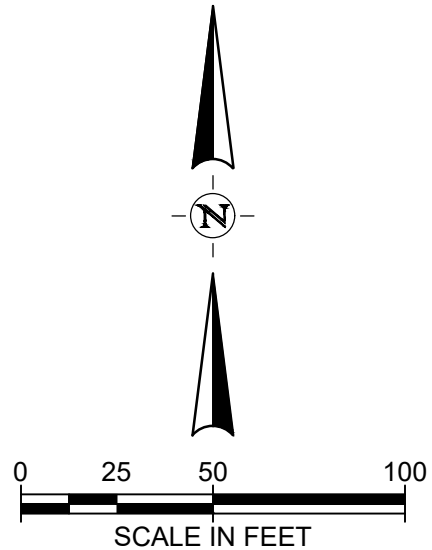
DEMO PLAN

LSD25-0027

C100



LIMITS OF DISTURBANCE: 4.8 ACRES
TOTAL SITE AREA: 4.4 ACRES



SITE EROSION CONTROL GENERAL NOTES:

1. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN SEVEN CALENDAR DAYS FOR THE SURFACE OF ALL PERIMETER SLOPES
2. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED EVERY SEVEN (7) DAYS OR AFTER EACH RAINFALL OCCURRENCE THAT EXCEEDS ONE-HALF (0.5) INCH. DAMAGED OR INEFFECTIVE DEVICES SHALL BE REPAIRED OR REPLACED, AS NECESSARY. A RAIN GAUGE SHALL BE KEPT ON SITE.
3. PROVIDE TEMPORARY CONSTRUCTION ENTRANCE, SILT FENCE, INLET PROTECTION, AND/OR OTHER EROSION CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING ALL PHASES OF CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED OF DEBRIS, FINISH GRADED, AND STABILIZED WITH PERMANENT VEGETATION IMMEDIATELY AFTER COMPLETION OF CONSTRUCTION.
4. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED UNTIL THE COMPLETION OF ALL PHASES OF CONSTRUCTION AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFF-SITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE PERMANENT VEGETATION IS ESTABLISHED.
5. ALL AREAS NOT TO BE PAVED SHALL BE SEEDED AND/OR SODDED AS NOTED.
6. TOPSOIL STOCKPILE SHALL BE GRADED TO DRAIN AND SEEDED WITH A TEMPORARY SEED MIX. COORDINATE STOCKPILE LOCATION WITH OWNER.
7. DUST CONTROL ON-SITE SHALL BE MINIMIZED BY SPRAYING WATER ON DRY AREAS OF THE SITE. THE USE OF OILS AND OTHER PETROLEUM BASED OR TOXIC LIQUIDS FOR DUST SUPPRESSION IS PROHIBITED.
8. IF THE MAJORITY OF MUD OR DIRT IS NOT REMOVED FROM TRAFFIC EXITS, CONTRACTOR SHALL ESTABLISH ADDITIONAL VEHICLE WASH AREAS AT CONSTRUCTION TRAFFIC EXIT POINTS. RINSE-OFF WILL NOT BE ALLOWED OUTSIDE THE PROJECT CONSTRUCTION LIMITS.
9. ALL EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH GOVERNING AUTHORITIES AND MAINTAINED AS PART OF THIS CONTRACT. CONTRACTOR TO INSTALL EROSION CONTROL IN ACCORDANCE WITH THE EROSION SEDIMENTATION CONTROL PLAN AS A MINIMUM. OTHER MEASURES MAY BE REQUIRED TO ASSURE THAT SILT IS CONTROLLED ON-SITE.
10. DEWATERING OPERATIONS ARE PRACTICES, SUCH AS DEWATERING BAGS, FILTER SOCKS, AND PUMP TRUCKS THAT MANAGE THE DISCHARGE OF POLLUTANTS WHEN NON-STORMWATER AND ACCUMULATED PRECIPITATION MUST BE REMOVED FROM A WORK LOCATION SO THAT CONSTRUCTION WORK MAY BE ACCOMPLISHED. WATER CANNOT BE DIRECTLY PUMPED INTO THE CITY'S STORM SEWER SYSTEM, STREAMS, OR LAKES. THESE PRACTICES ARE IMPLEMENTED FOR REMOVING STANDING STORMWATER AND NON-STORMWATER FROM CONSTRUCTION SITES. NON-STORMWATERS INCLUDE, BUT ARE NOT LIMITED TO, GROUNDWATER, WATER FROM COFFERDAMS, WATER DIVERSIONS, AND WATERS USED DURING CONSTRUCTION ACTIVITIES THAT MUST BE REMOVED FROM A WORK AREA.
11. PRACTICES IDENTIFIED IN THIS SECTION ARE ALSO APPROPRIATE FOR IMPLEMENTATION WHEN MANAGING THE REMOVAL OF ACCUMULATED PRECIPITATION (STORMWATER) FROM DEPRESSED AREAS AT A CONSTRUCTION SITE.
12. CONTRACTOR SHALL PROVIDE PORTABLE TOILETS AND TRASH RECEPTACLES AS NEEDED TO SUPPORT CONSTRUCTION WORKFORCE. THESE FACILITIES SHALL BE LOCATED OUTSIDE THE PUBLIC RIGHT OF WAY AND MAINTAINED IN A SANITARY CONDITION FOR THE DURATION OF THE PROJECT. PORTABLE TOILETS SHALL BE ANCHORED OR SECURED TO PREVENT TIPPING DURING SEVERE WEATHER CONDITIONS.

SEQUENCE OF CONSTRUCTION:

1. INSTALL SILT FENCE, TEMPORARY CONSTRUCTION ENTRANCE, CONCRETE WASHOUT AND TIRE WASH FOR CONSTRUCTION TRAFFIC AT LOCATION SHOWN IN THE PLANS.
2. INSTALL INLET PROTECTION AND OTHER EROSION CONTROL MEASURES.
3. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND APPROVED BY THE CITY PRIOR TO CONTRACTOR PROCEEDING WITH CONSTRUCTION.
4. BEGIN DEMOLITION. PERFORM MASS GRADING OF THE SITE.
5. INSTALL STORM SEWER AND OTHER UTILITY LINES. WHEN UNDERGROUND UTILITY INSTALLATION IS COMPLETE, FINE-GRADE THE PAVED AREAS TO SUBGRADE AND INSTALL THE STONE BASE COURSE.
6. AS THESE PHASES PROGRESS, INTERMITTENT STORM WATER CONTROLS SHOULD BE INSTALLED TO PREVENT SILT FROM WASHING OFF THE CONSTRUCTION SITE AND ENTERING THE STREETS, STORM SEWER SYSTEM, OR ADJACENT PROPERTIES.
7. FINISH GRADE THE SITE AND PERFORM FINAL CLEANUP. SPREAD TOPSOIL AND SOD ALL AREAS DISTURBED BY CONSTRUCTION THAT WILL NOT BE PAVED OR LANDSCAPE BEDS. REFER TO THE SOD/SEEDING NOTES, THIS SHEET.
8. REMOVE TEMPORARY EROSION CONTROL MEASURES AFTER PERMANENT STAND OF VEGETATION IS ESTABLISHED.

LEGEND

- | | |
|--|---------------------------------|
| | PROPOSED SILT FENCE |
| | LIMITS OF DISTURBANCE |
| | ROCK CHECK DAM |
| | TEMPORARY CONSTRUCTION ENTRANCE |
| | INLET PROTECTION |
| | SWPPP MAILBOX |
| | FLOW ARROW |
| | CONCRETE WASHOUT |
| | SCOUR STOP MAT |

NOTE TO CONTRACTOR:

ALL EROSION CONTROL SHOWN FUNCTIONS AS A GUIDE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE REQUIREMENTS OF THE ARKANSAS DEPARTMENT OF ENVIRONMENTAL QUALITY'S GENERAL PERMIT ARE MAINTAINED. ACTUAL EROSION CONTROL DEVICES MAY VARY DUE TO THE CONTRACTOR'S SEQUENCE OF DEMOLITION AND CONSTRUCTION. ADDITIONAL MEASURES MAY BECOME NECESSARY DURING CONSTRUCTION.

CALVARY CHURCH ADDN.

BENTONVILLE, AR

PASTOR CHANTRY DEAN

2612 E CENTRAL AVE
BENTONVILLE, AR 72712



REVISION NO.	DATE	DESCRIPTION

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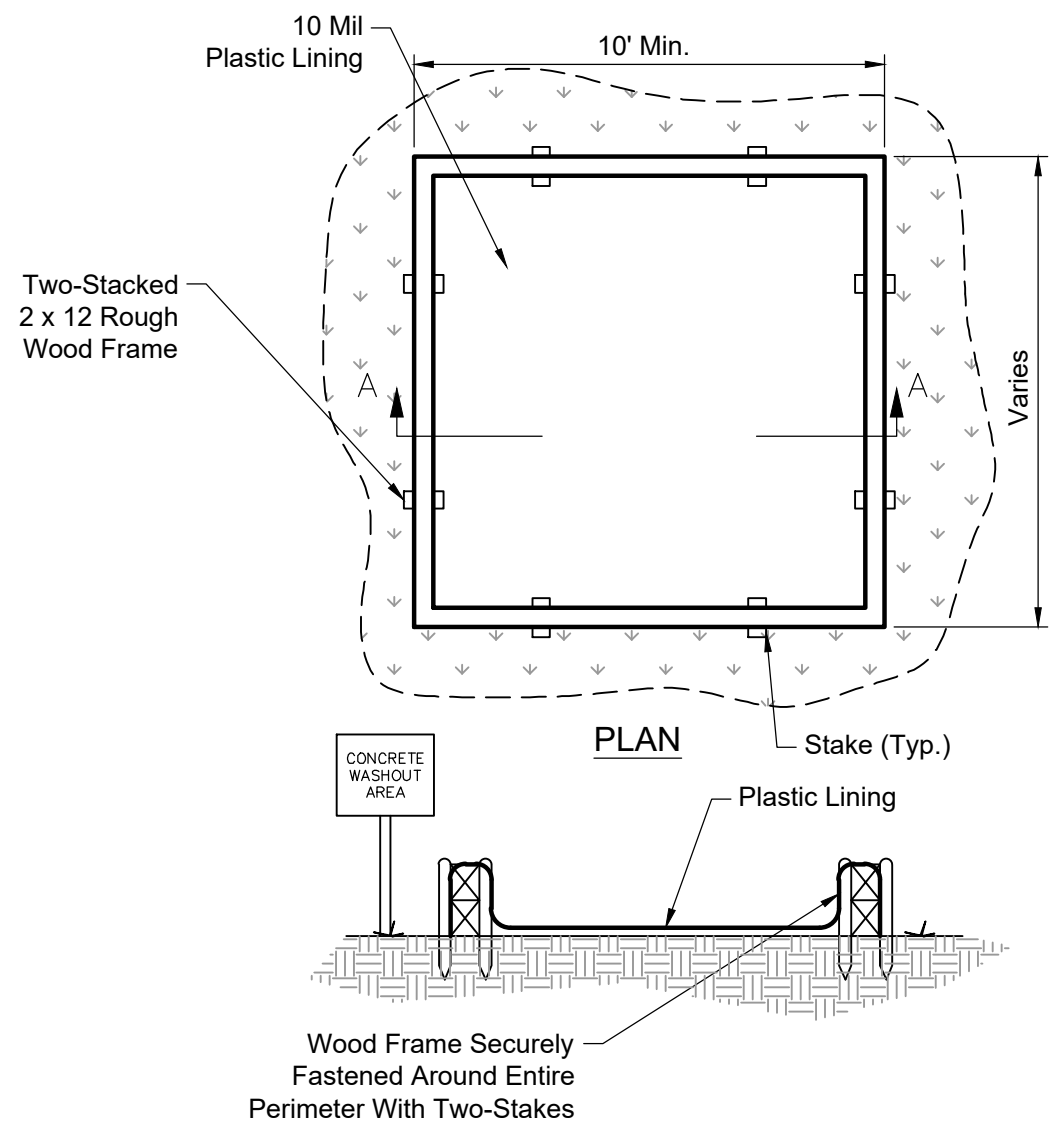
TOM BERRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001
ISSUED: 2025-06-20
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 50'
SHEET TITLE:

EROSION
CONTROL PLAN
LSD25-0027

C200

FILE NAME: A:\57000\57802\001\LD\CADD\Sheets\C-PLAN-DTL-S-57802-001.dwg DATE: July 3, 2025, TIME: 2:44 PM, USER: ah5935

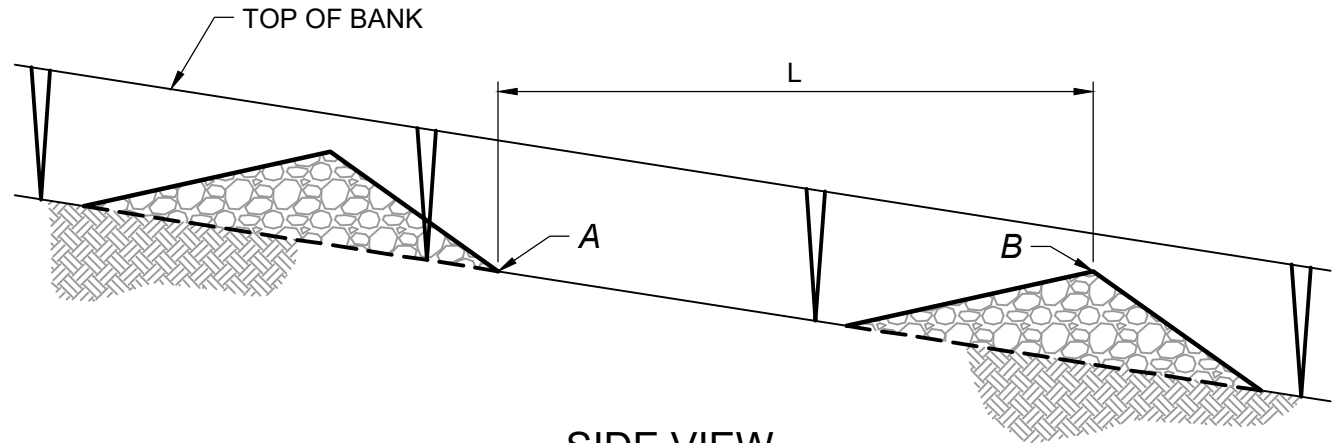


SECTION "A-A"

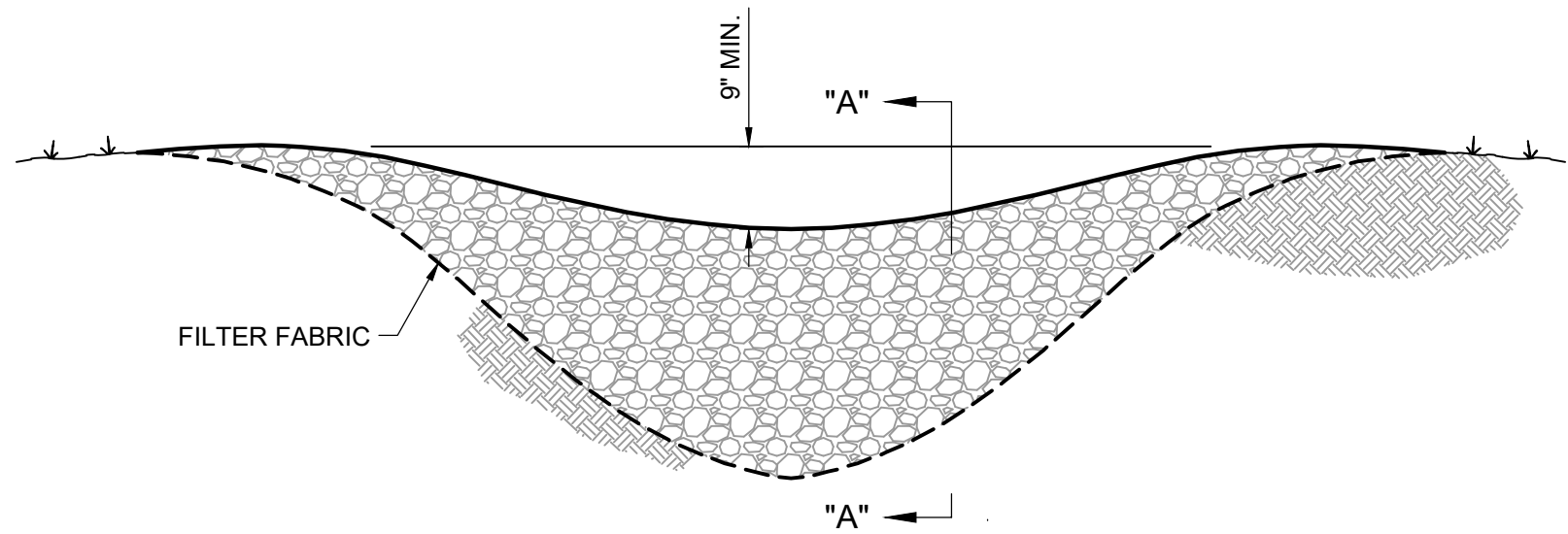
CONCRETE WASHOUT AREA

Not to Scale 4-21-10

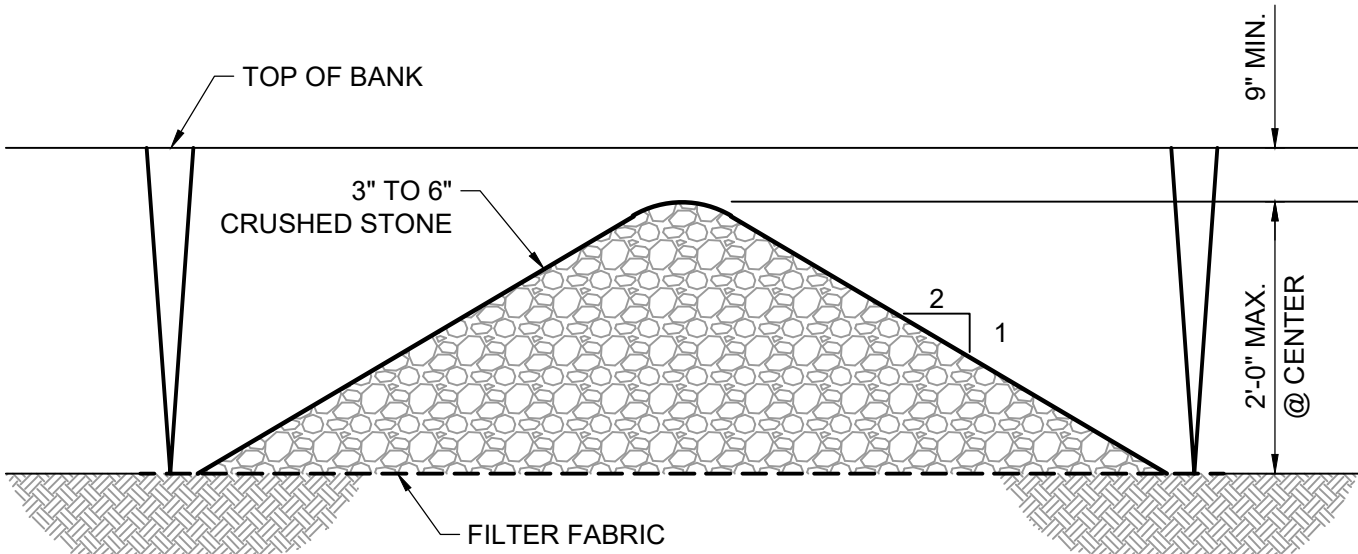
L = THE DISTANCE SUCH THAT POINTS A AND B ARE OF EQUAL ELEVATION



SIDE VIEW



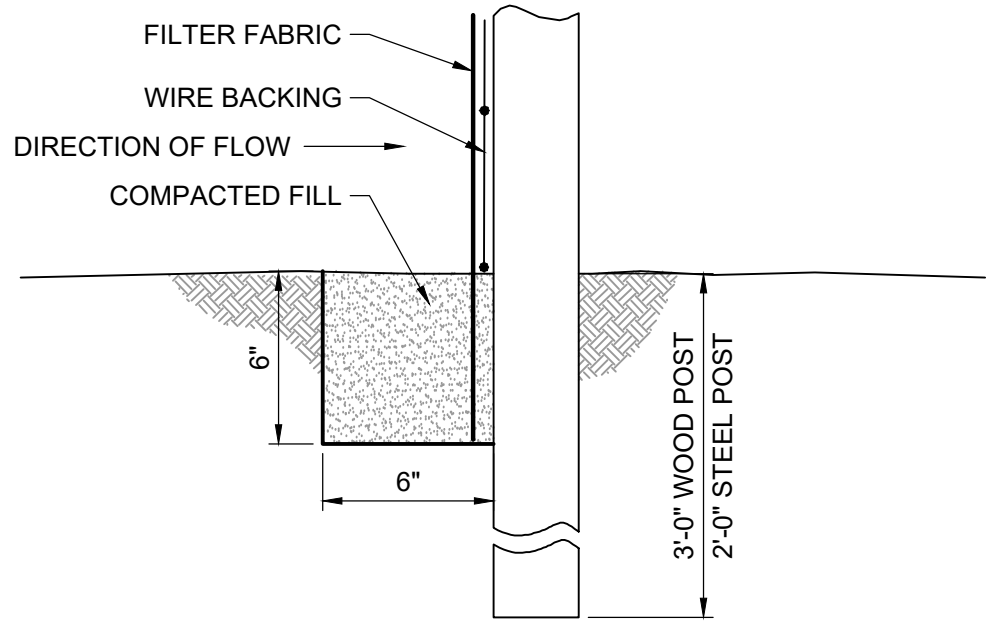
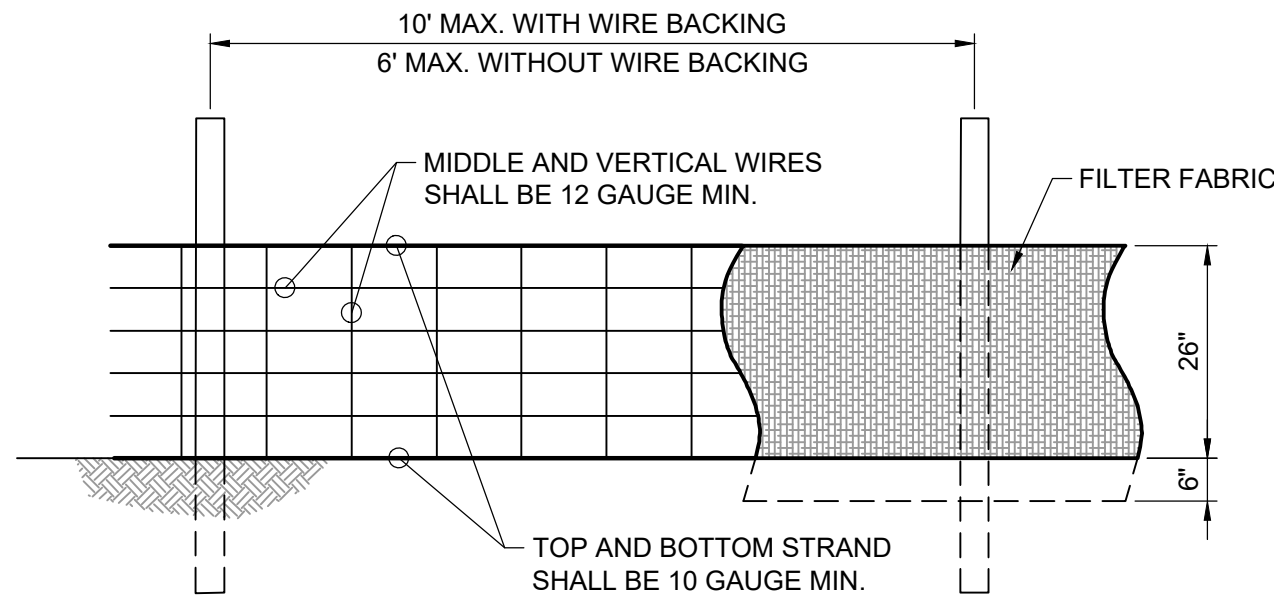
ELEVATION



SECTION "A-A"

EC-60: TEMPORARY ROCK CHECK DAM

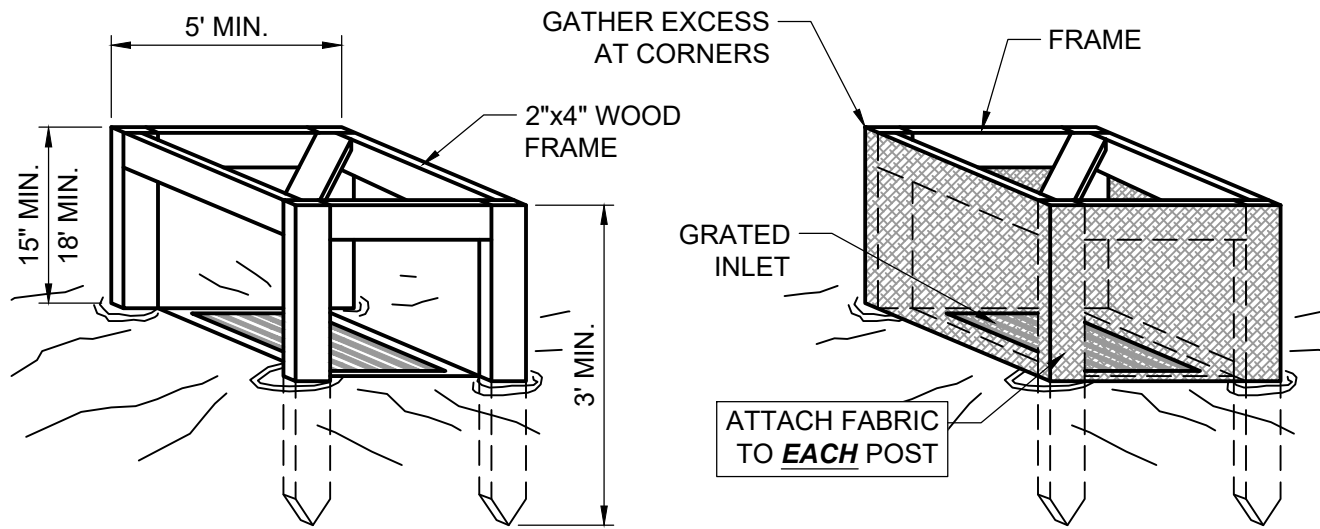
NOT TO SCALE 8-5-2024



EXTENSION OF FABRIC INTO TRENCH

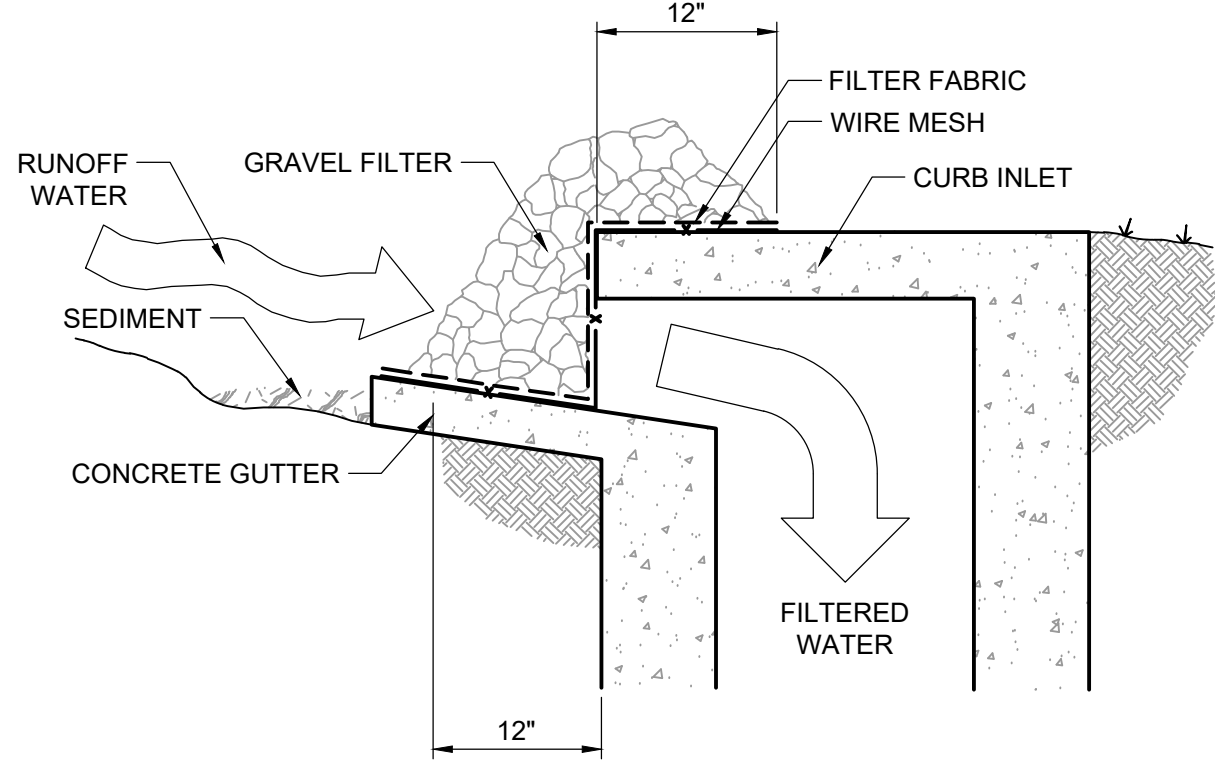
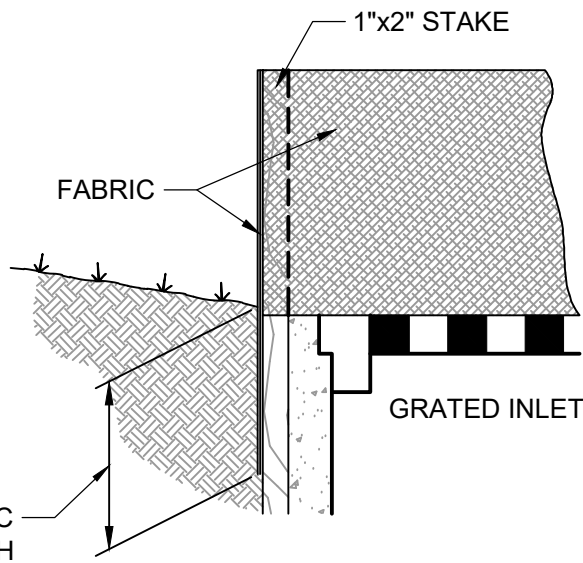
EC-12: SILT FENCE

NOT TO SCALE 3-20-2024



EC-41: SILT FENCE INLET PROTECTION

NOT TO SCALE 4-3-2024



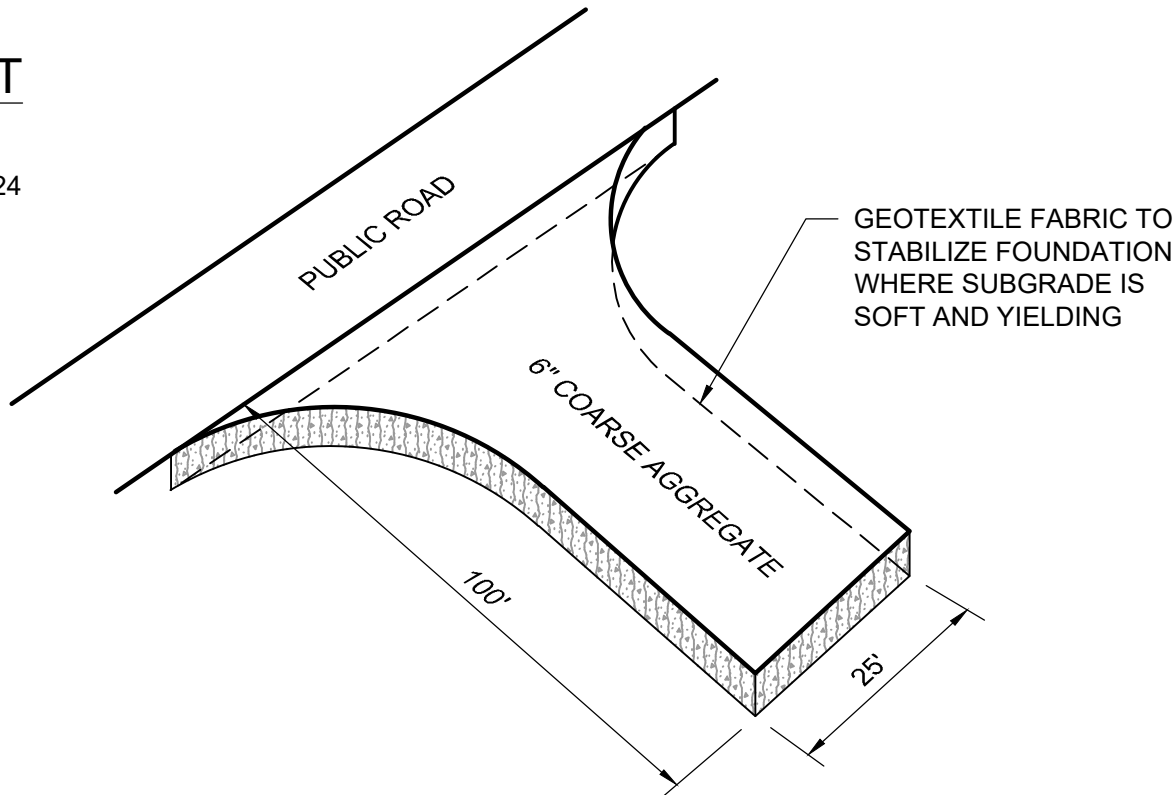
NOTES:

- THIS METHOD OF PROTECTION IS APPLICABLE AT CURB INLETS WHERE PONDING IN FRONT OF THE STRUCTURE IS NOT LIKELY TO CAUSE INCONVENIENCE OR DAMAGE TO ADJACENT STRUCTURES AND UNPROTECTED AREAS.
- GRAVEL FILTER SHALL BE 3/4" - 2" STONE.

EC-43: TEMPORARY GRAVEL CURB INLET SEDIMENT FILTER

NOT TO SCALE

4-3-2024



NOTES:

- COARSE AGGREGATE SHALL BE 3" TO 6" CRUSHED STONE WITH A MINIMUM DEPTH OF 12".
- CLEAR THE ENTRANCE OR EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND EXCAVATE TO GRADE.
- PLACE THE AGGREGATE TO THE GRADE AND DIMENSIONS SHOWN ON THE PLANS.
- MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE SITE. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

EC-30: TEMPORARY CONSTRUCTION ENTRANCE

NOT TO SCALE 4-3-2024

SOIL EROSION/SEDIMENTATION CONTROL OPERATION TIME SCHEDULE																								
NOTE: GENERAL CONTRACTOR TO COMPLETE TABLE WITH THEIR SPECIFIC PROJECT PROGRESSES.																								
CONSTRUCTION SEQUENCE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
TEMPORARY CONSTRUCTION EXITS																								
TEMPORARY CONTROL MEASURES																								
SEDIMENT CONTROL BASINS																								
STRIP & STOCKPILE TOPSOIL																								
ROUGH GRADE																								
STORM FACILITIES																								
SITE CONSTRUCTION																								
PERMANENT CONTROL STRUCTURES																								
FOUNDATION/BUILDING CONSTRUCTION																								
FINISH GRADING																								
LANDSCAPING/SEED/FINAL STABILIZATION																								

1) CONTRACTOR SHALL UPDATE THE TABLE BY DATING THE APPLICABLE ACTIVITIES AS PROJECT PROGRESSES.
2) TIME SCHEDULE MUST COINCIDE WITH SEQUENCE OF CONSTRUCTION

OPERATION TIME SCHEDULE

NOT TO SCALE 05-13-2024

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR
CENTERTON, AR 72719



2407 SE COTTONWOOD ST.
SUITE 100
JACKSONVILLE, AR 72712
TEL: (479) 273-2209

REVISION		DESCRIPTION	
NO.	DATE		

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TOM BURRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001

ISSUED: MARCH 2025

DRAWN BY: KES

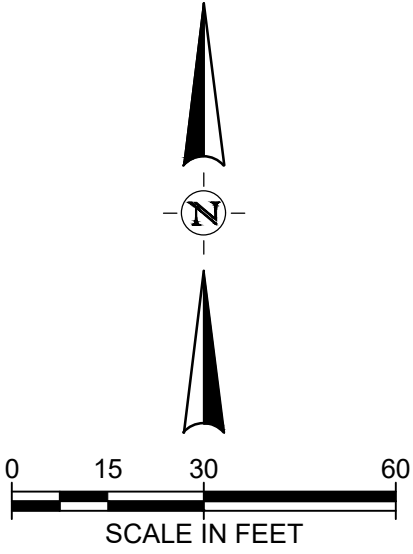
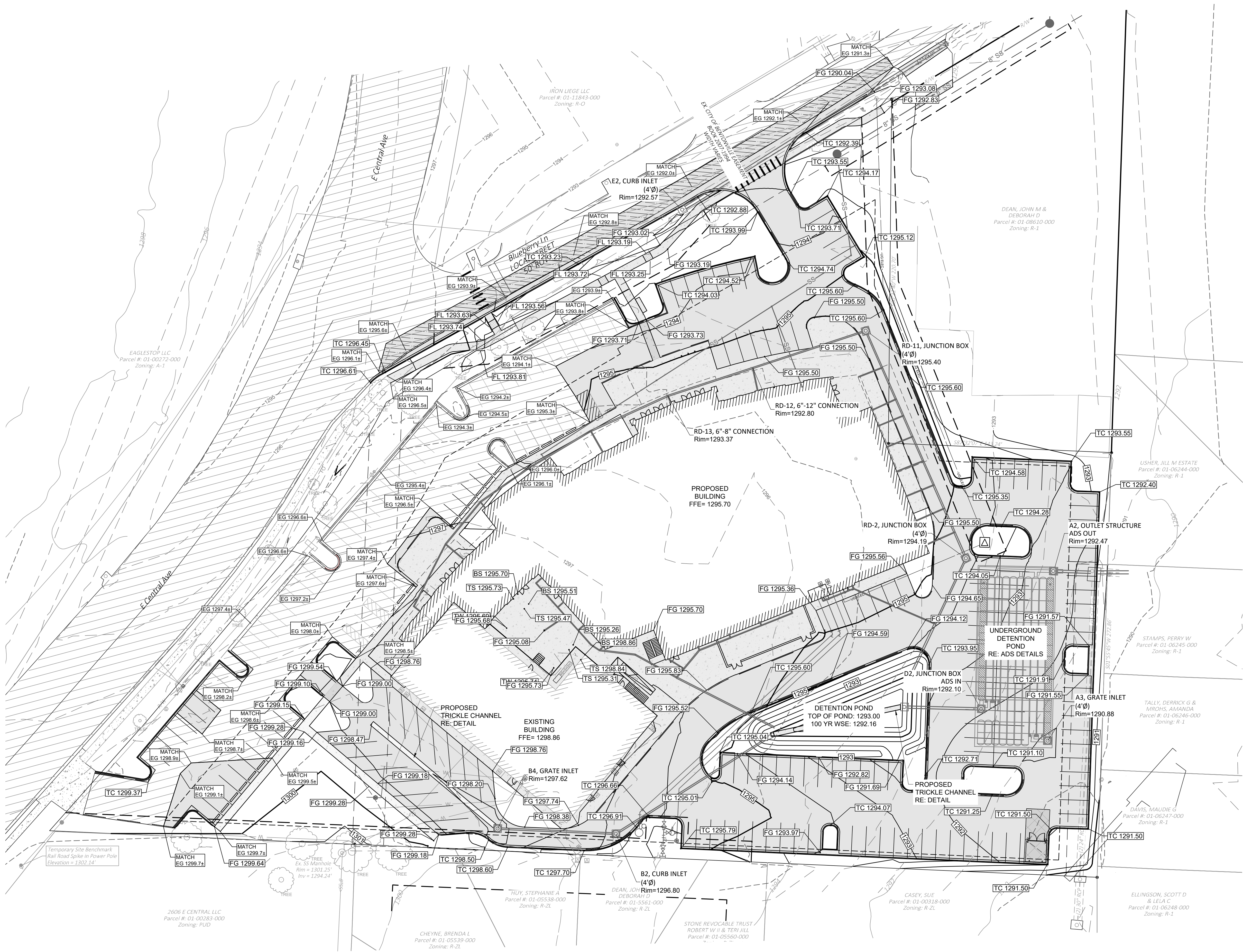
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SCALE: NTS

SHEET TITLE:
EROSION
CONTROL
DETAILS
LSD25-0027

C201

FILE NAME: A:57000s57002001\LD\CADD\Sheets\C-PLAN-GRAD-57602-001.dwg DATE: July 3, 2025, TIME: 2:44 PM, USER: ah5935



NOTE: ELIMINATE ALL CROSS LOT DRAINAGE

CALVARY CHURCH ADDN.

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BENTONVILLE, AR 72712



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FIRM / BUSINESS NO. STATE

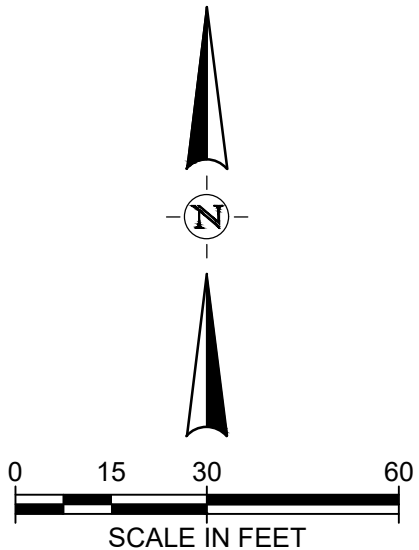
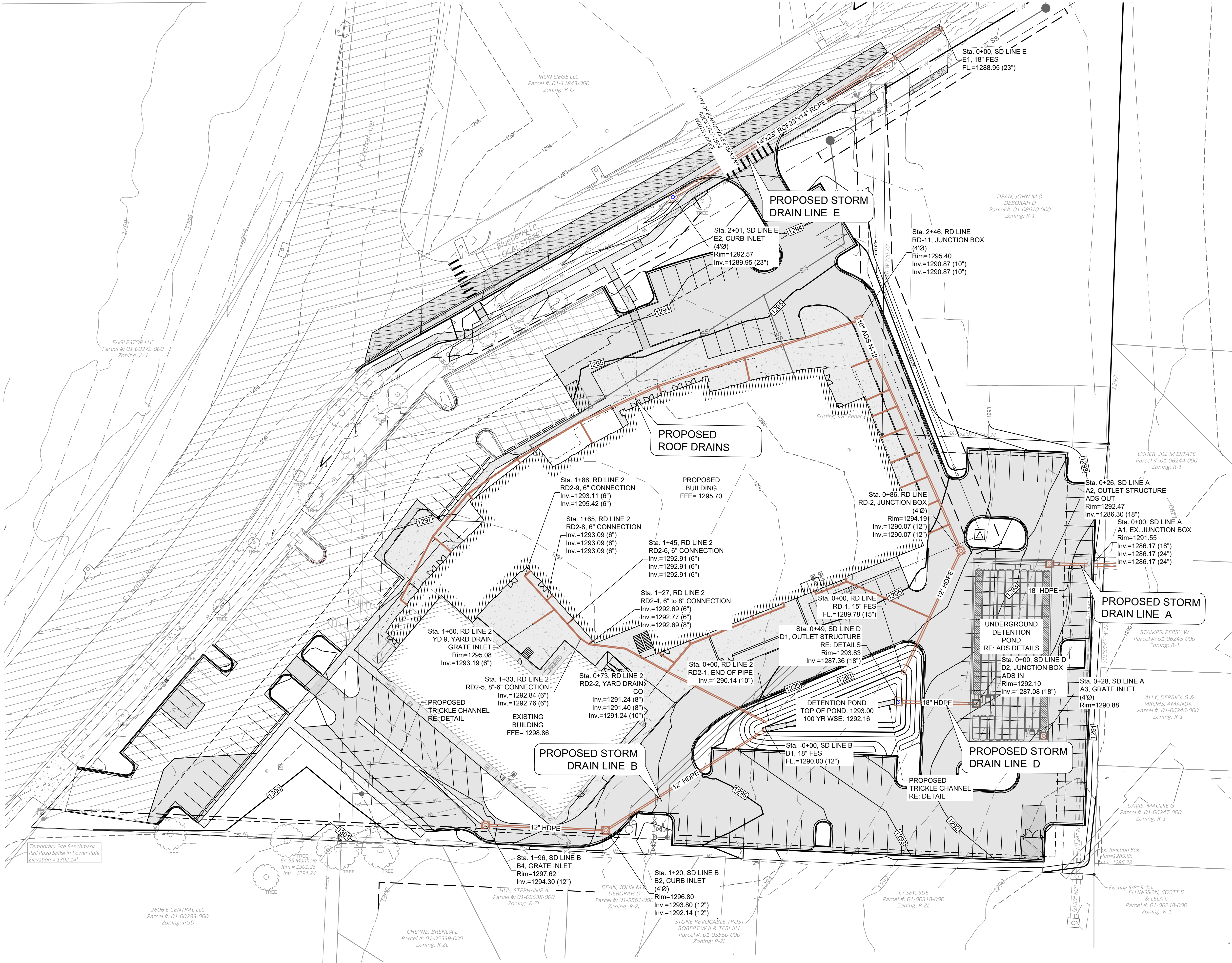
PROJECT NO.: 57802.001
ISSUED: 2025-06-20
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'
SHEET TITLE:

GRADING PLAN

LSD25-0027

C400

FILE NAME: A:57000s57802001\LD\CADD\Sheets\C-PLAN-GRAD-57802-001.dwg DATE: July 3, 2025, TIME: 2:44 PM, USER: ah5935



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PASTOR CHANTRY DEAN
2612 E CENTRAL AVE
BENTONVILLE, AR 72712



5407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL (479) 273-2209

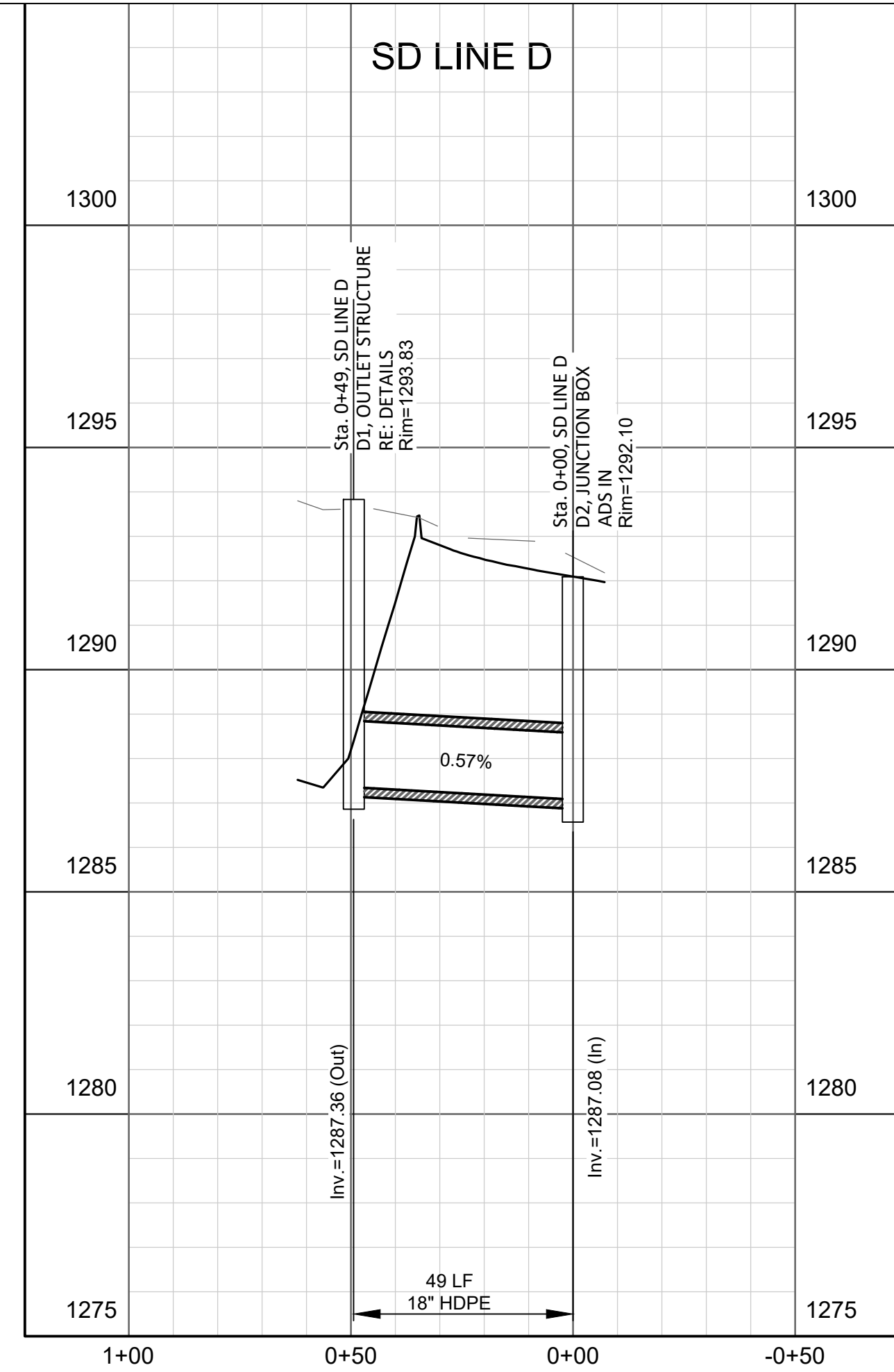
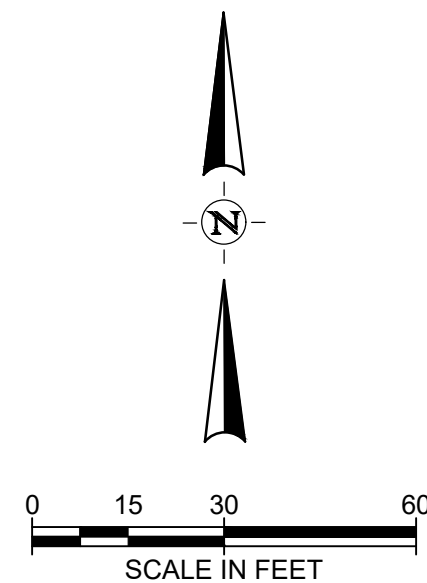
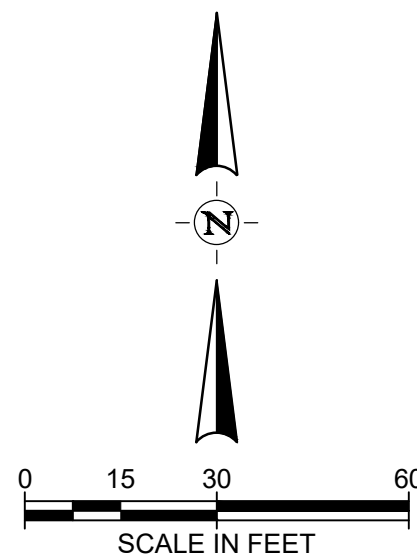
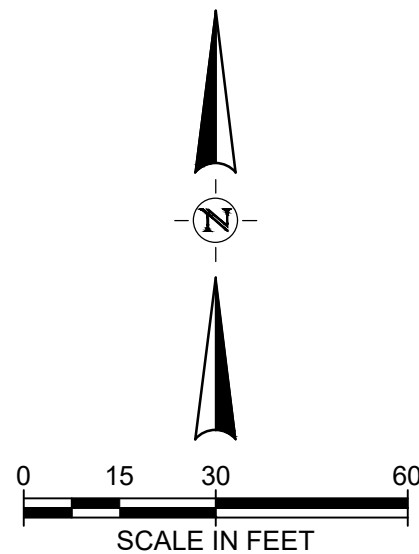
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PROJECT NO.: 57802.001
ISSUED: 6.20.2025
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'
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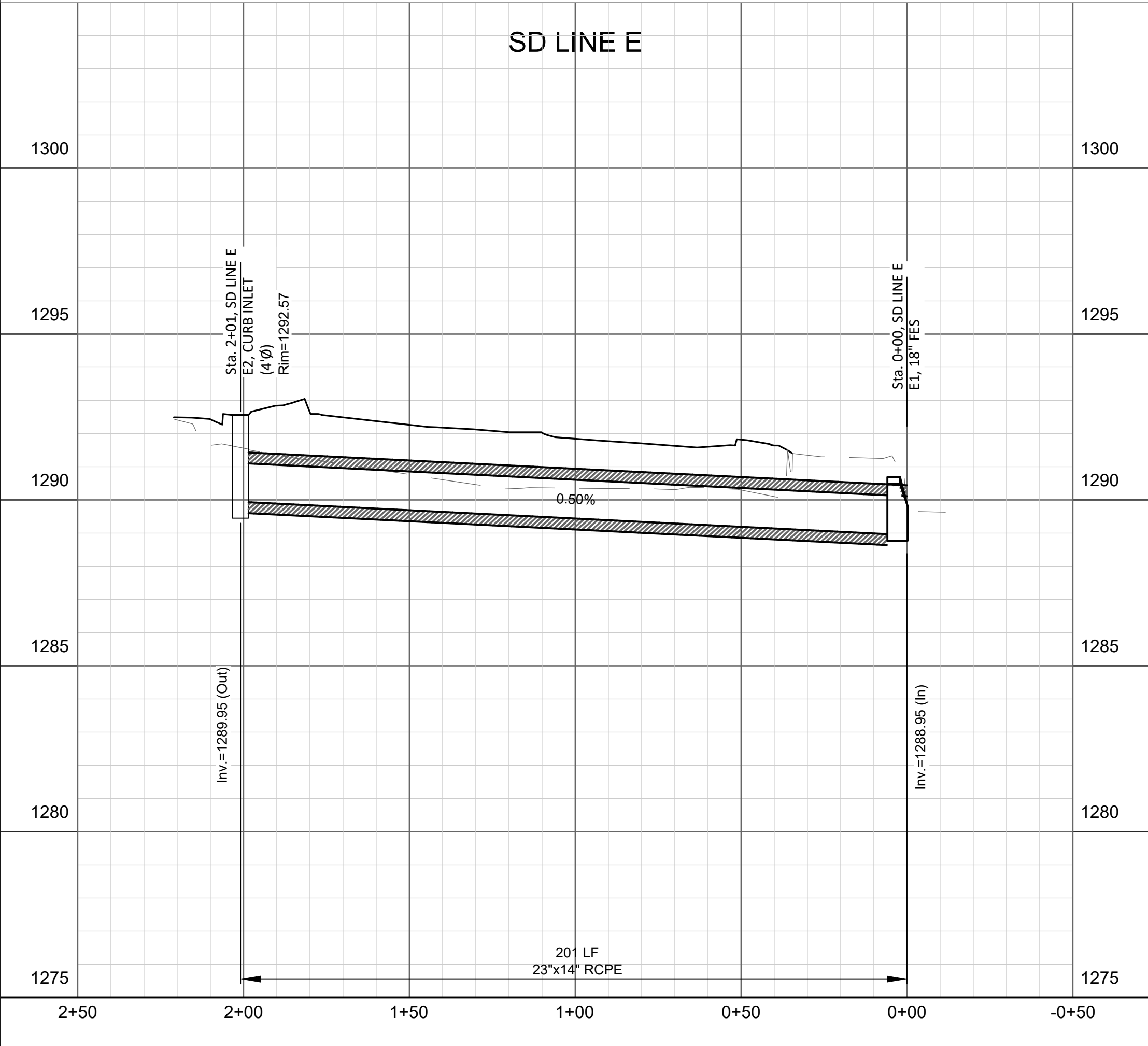
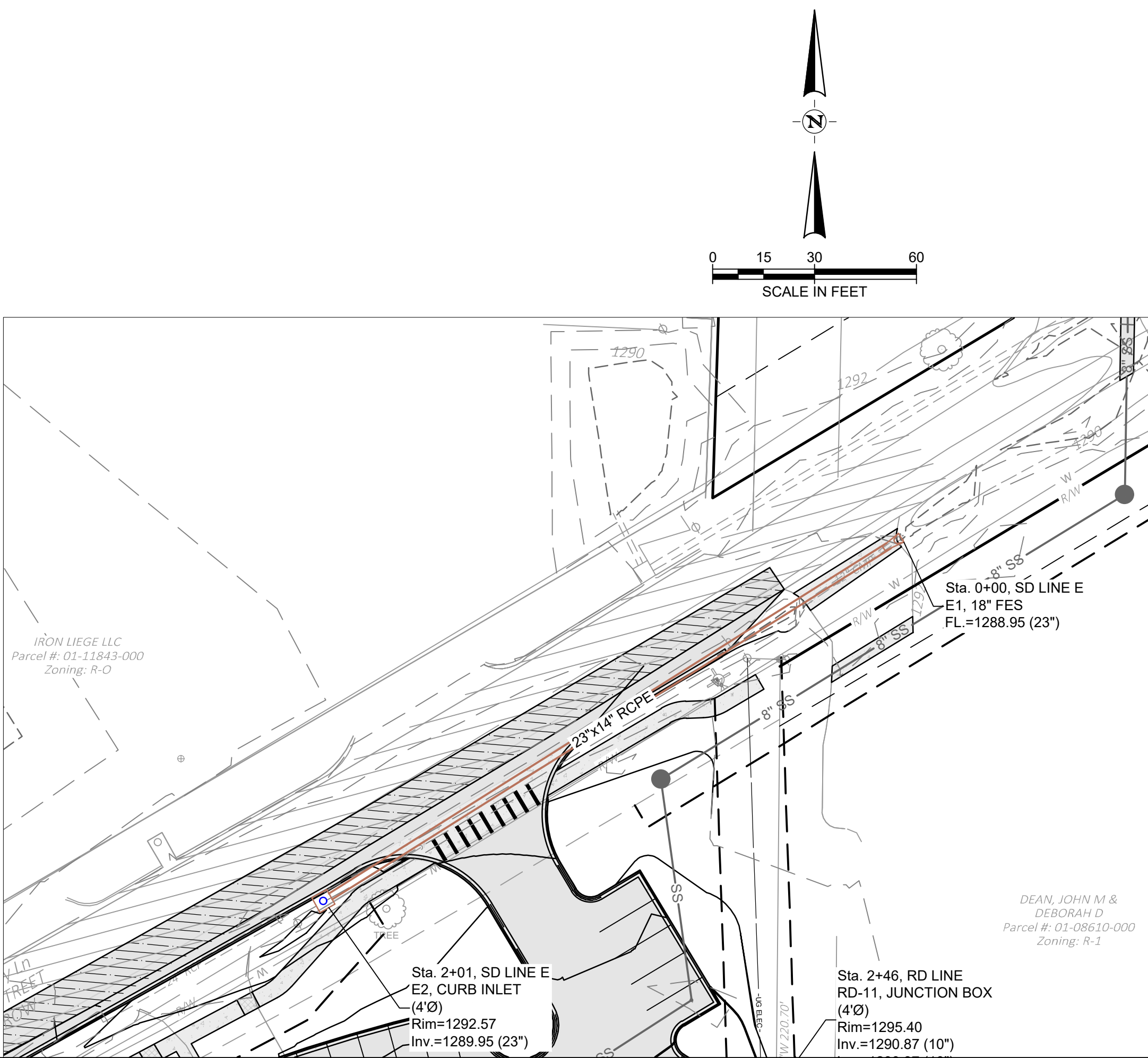
DRAINAGE
PLAN
LSD25-0027

C500



C501

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CALVARY CHURCH ADDN.

BENTONVILLE, AR

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2612 E CENTRAL AVE
BENTONVILLE, AR 72712



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BENTONVILLE, AR 72712
TEL (479) 273-2209

REVISION NO.	DATE	DESCRIPTION

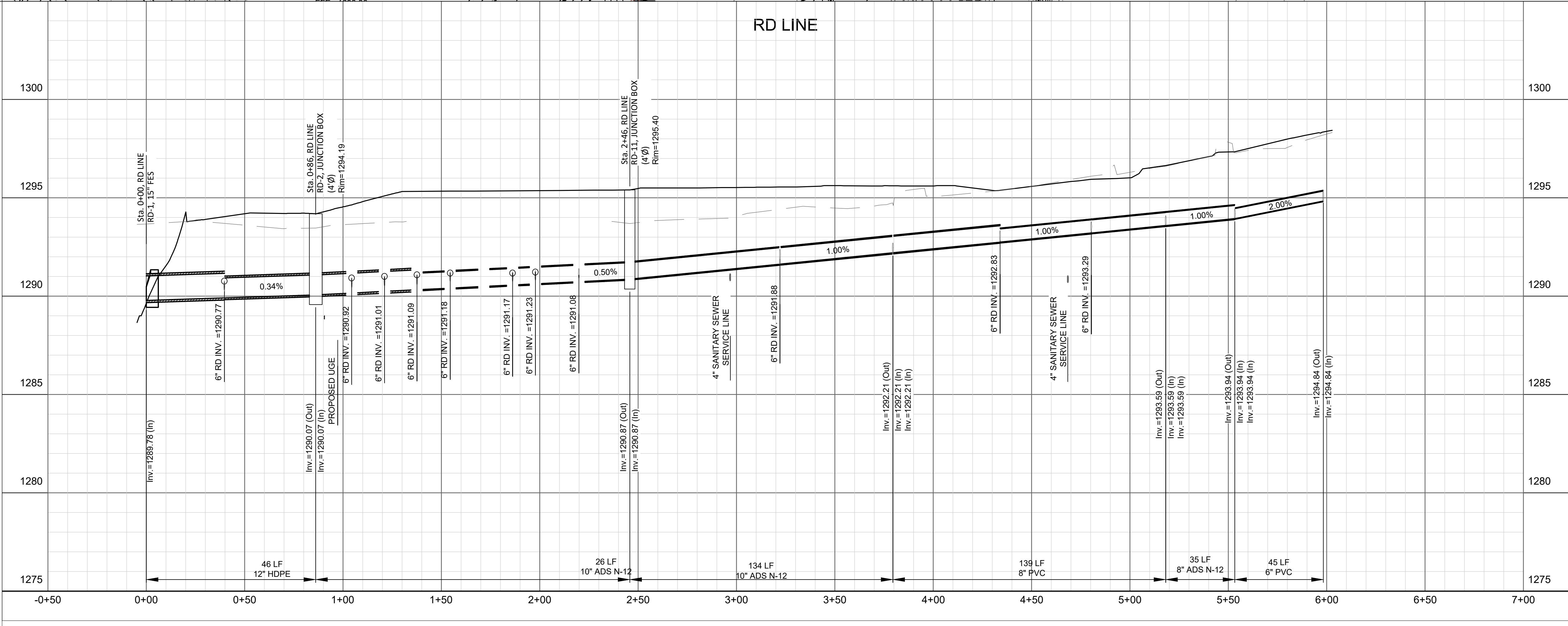
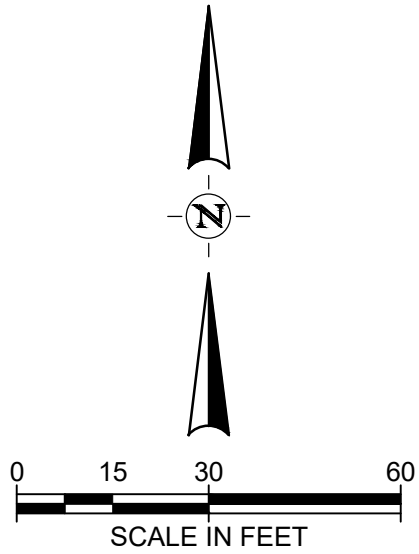
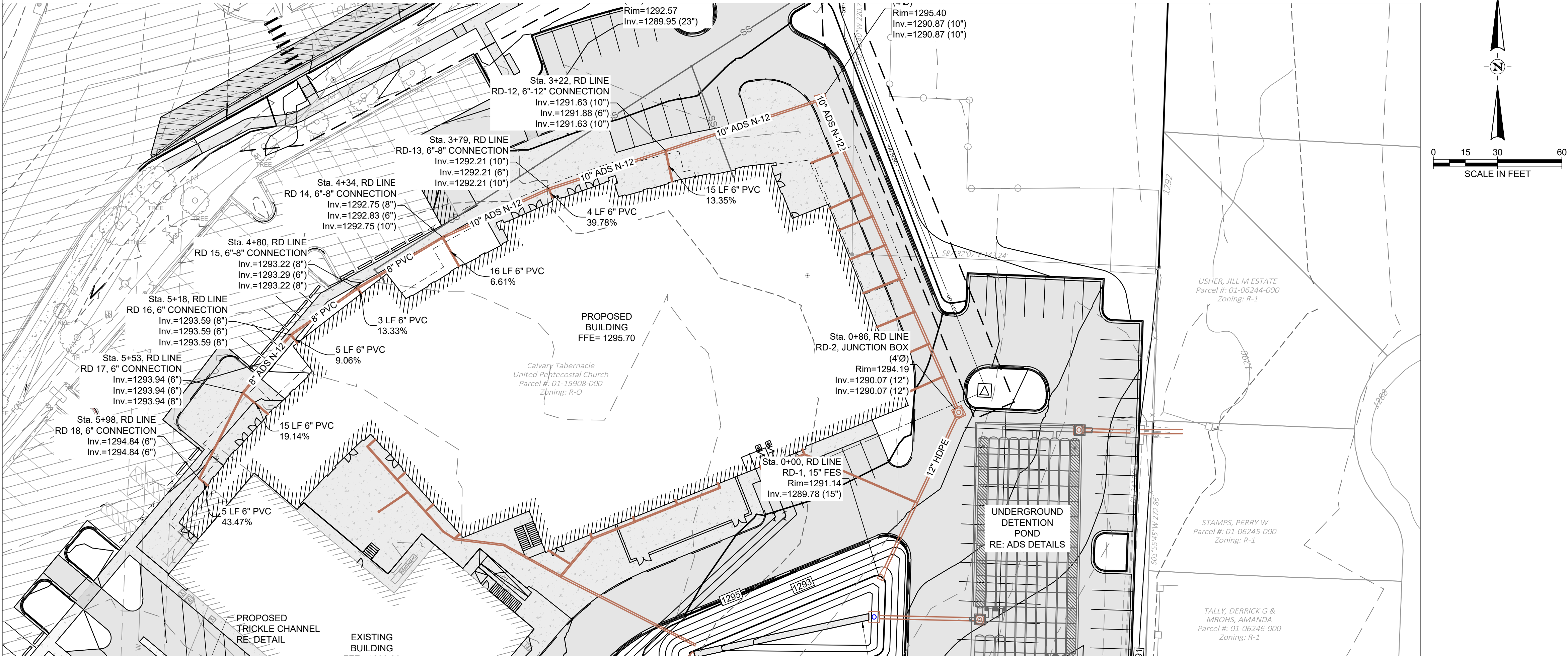
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7/3/2025
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FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001
ISSUED: 6.20.2025
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'

SHEET TITLE:
**STORM DRAIN
PLAN AND PROFILE**
LSD25-0027

C502

FILE NAME: A:\57000s\57002\001\LD\CADD\Sheets\C-PLAN-GRAD-57802-001.dwg DATE: July 3, 2025, TIME: 2:44 PM, USER: ah5935



CALVARY CHURCH ADDN.

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PASTOR CHANTRY DEAN
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3407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL (479) 273-2509

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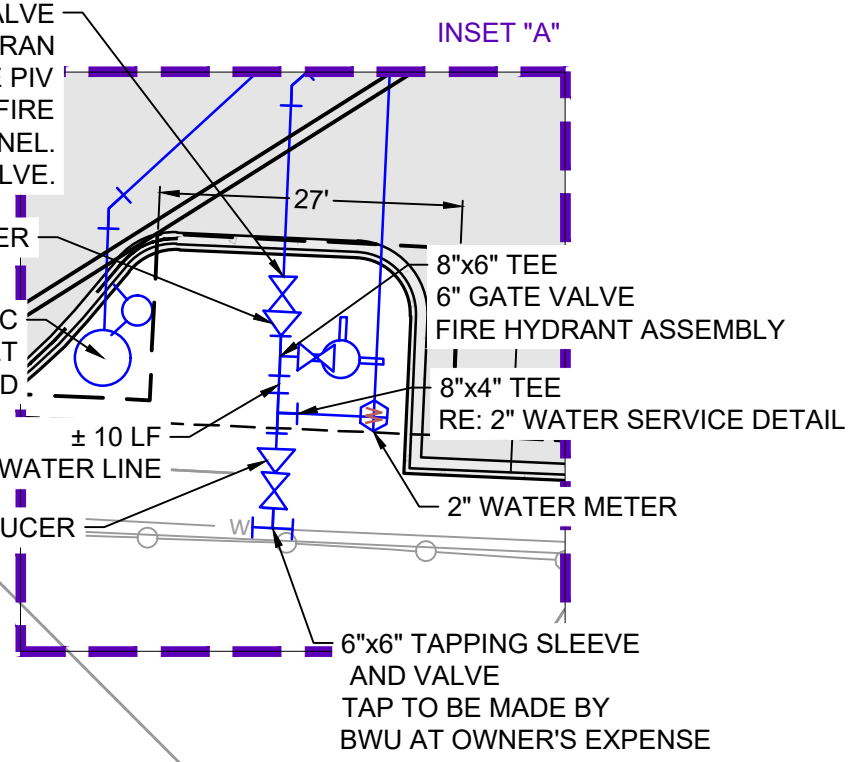
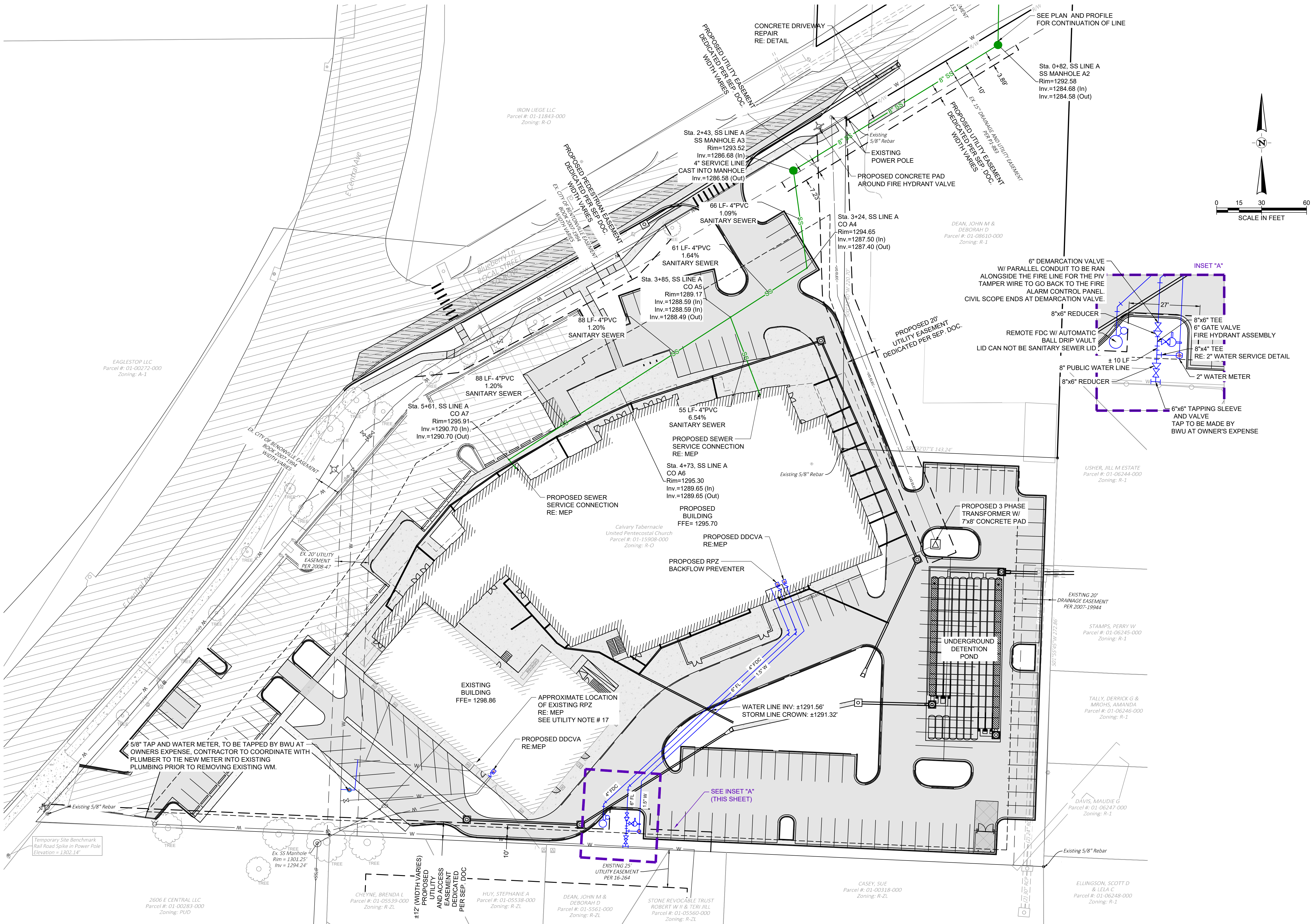
TOM BERRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001
ISSUED: 6.20.2025
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'

SHEET TITLE:
STORM DRAIN
PLAN AND PROFILE
LSD25-0027

C503

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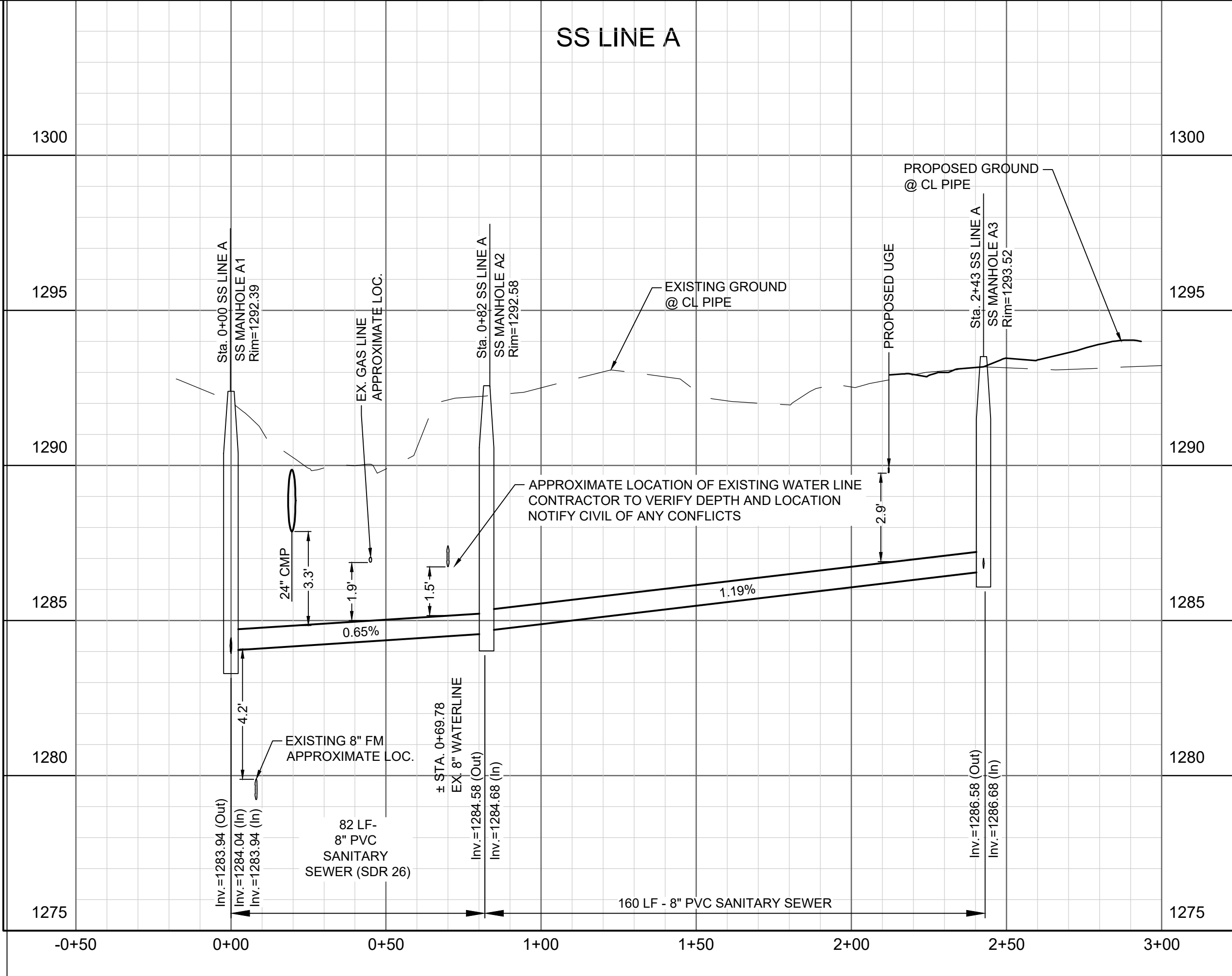
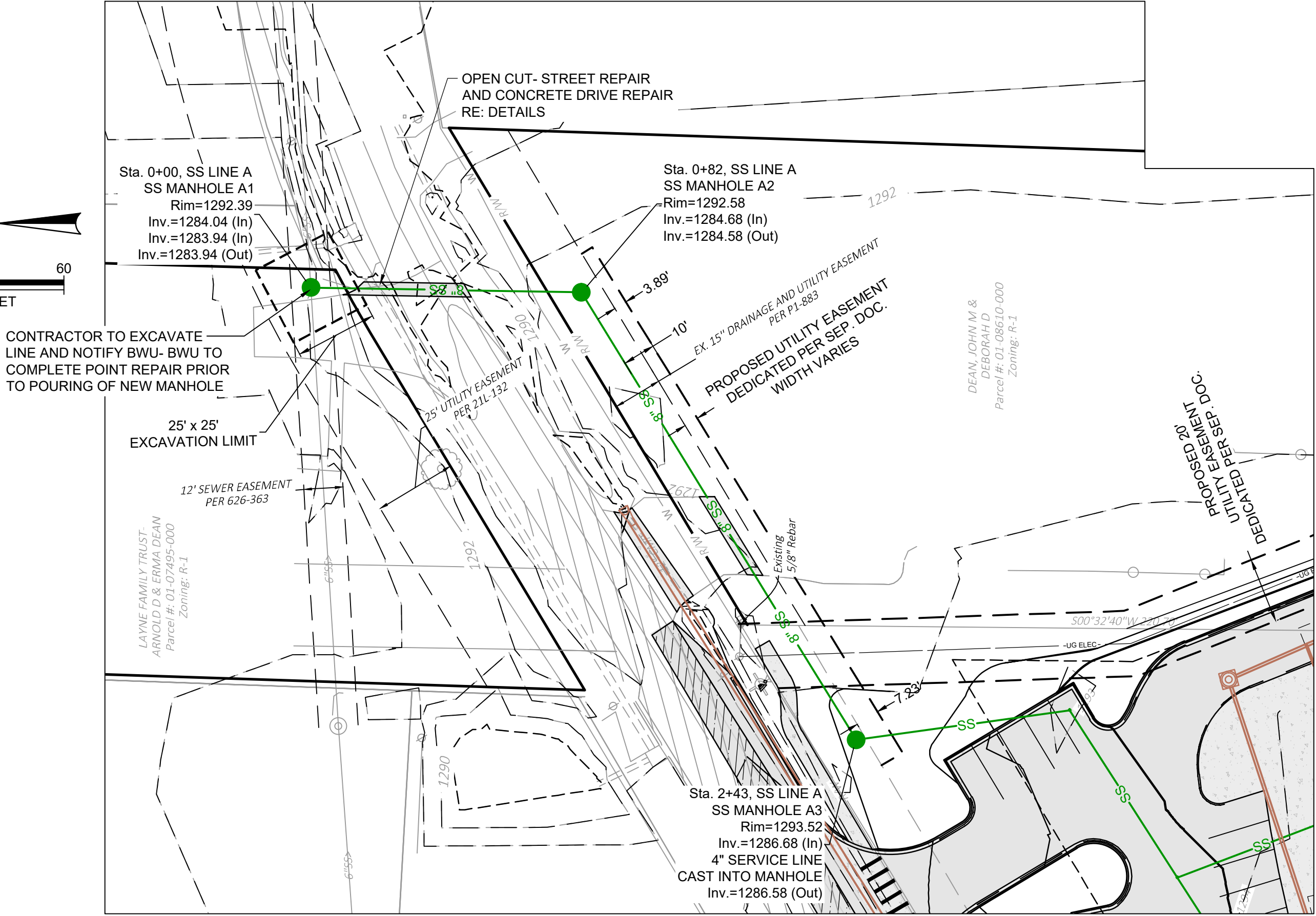
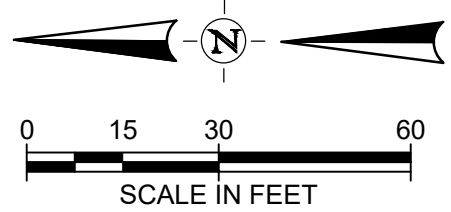
CALVARY CHURCH ADDN.
BENTONVILLE, AR
PASTOR CHANTRY DEAN
2612 E CENTRAL AVE
BENTONVILLE, AR 72712

half
3407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL (479) 273-2209

REVISION NO.	DATE	DESCRIPTION

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TOM BURRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001
ISSUED: 2025-06-18
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'
SHEET TITLE:
UTILITY PLAN
LSD25-0027
C600



CALVARY CHURCH ADDN.

BENTONVILLE, AR

PASTOR CHANTRY DEAN
2612 E CENTRAL AVE
BENTONVILLE, AR 72712



2407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL (479) 273-2209

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TOM BERRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

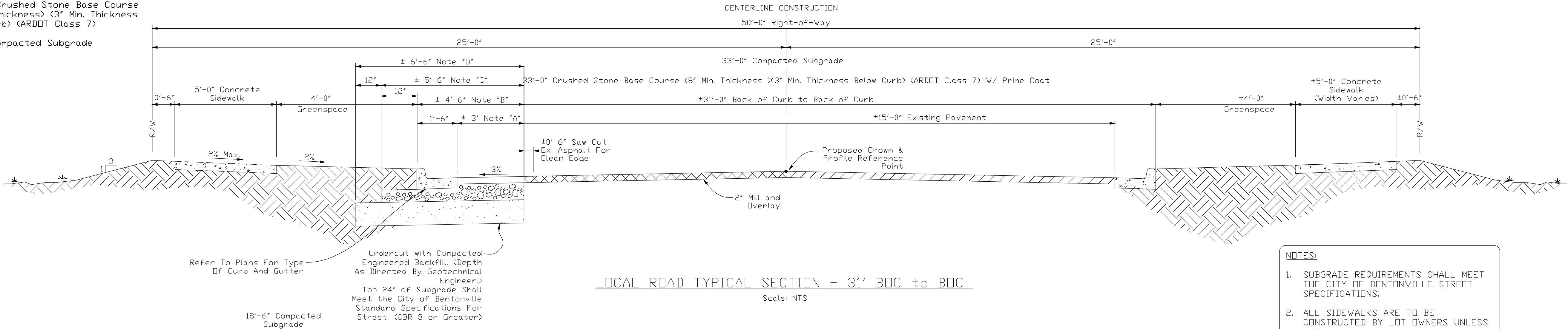
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ISSUED: 6.18.2025
DRAWN BY: KES
CHECKED BY: PRF
SCALE: 1" = 30'
SHEET TITLE:
SEWER PLAN
AND PROFILE
LSD25-0027

C601

FILE NAME: A:\57000s\57802\001\LD\CADD\Sheets\C-PLAN-DTL-S-57802-001.dwg DATE: July 3, 2025, TIME: 2:45 PM, USER: ah5935

Asphalt Widening Notes:

- A. ± 3'-0" ACHM Surface Course (3' Min. Thickness) (ARDDT 3/8" pg 70-22))
- B. ± 4'-6" Edge of Asphalt to Back of Curb
- C. ± 5'-6" Crushed Stone Base Course (8' Min. Thickness) (3' Min. Thickness Below Curb) (ARDDT Class 7)
- D. ± 6'-6" Compacted Subgrade

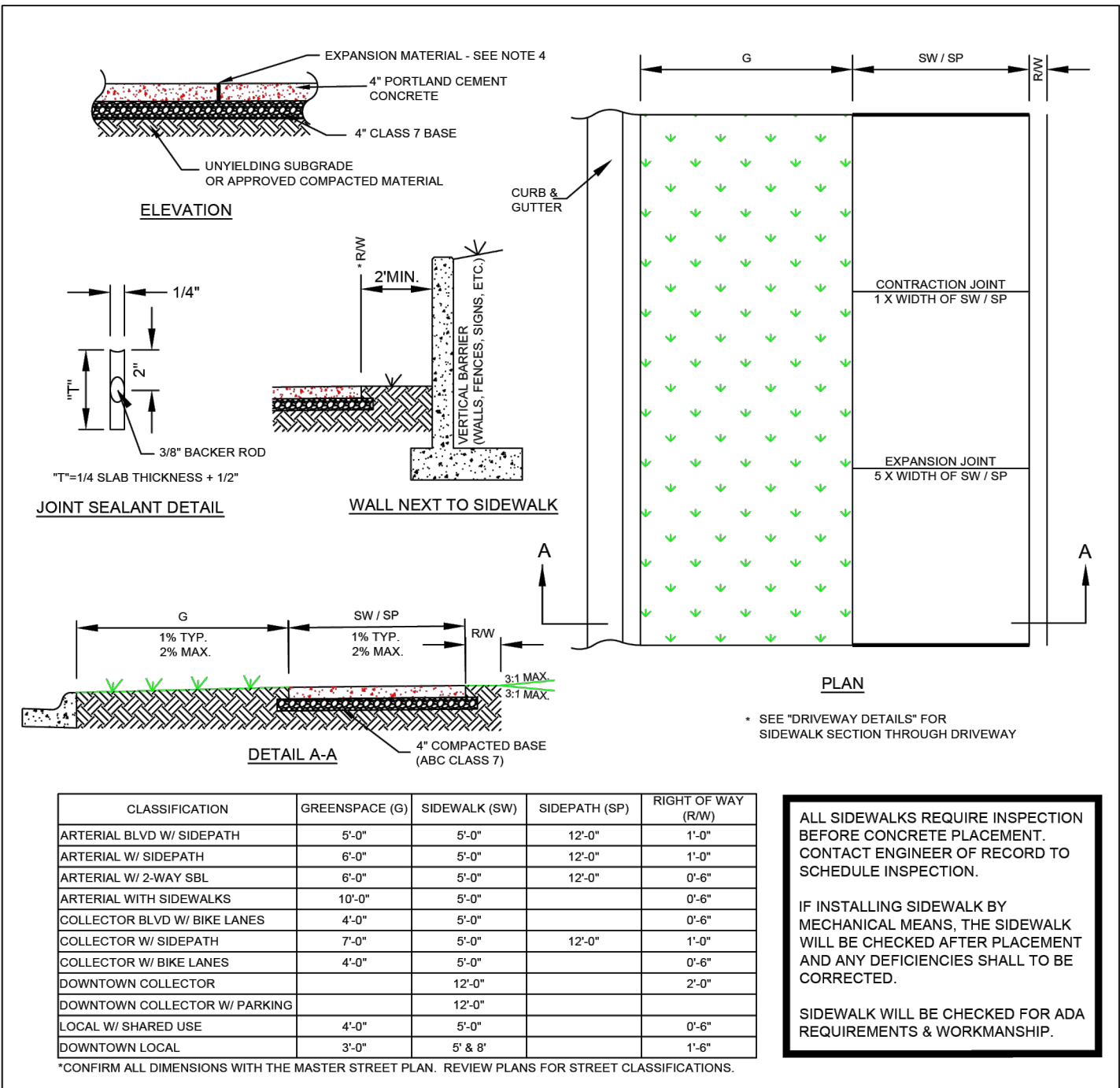
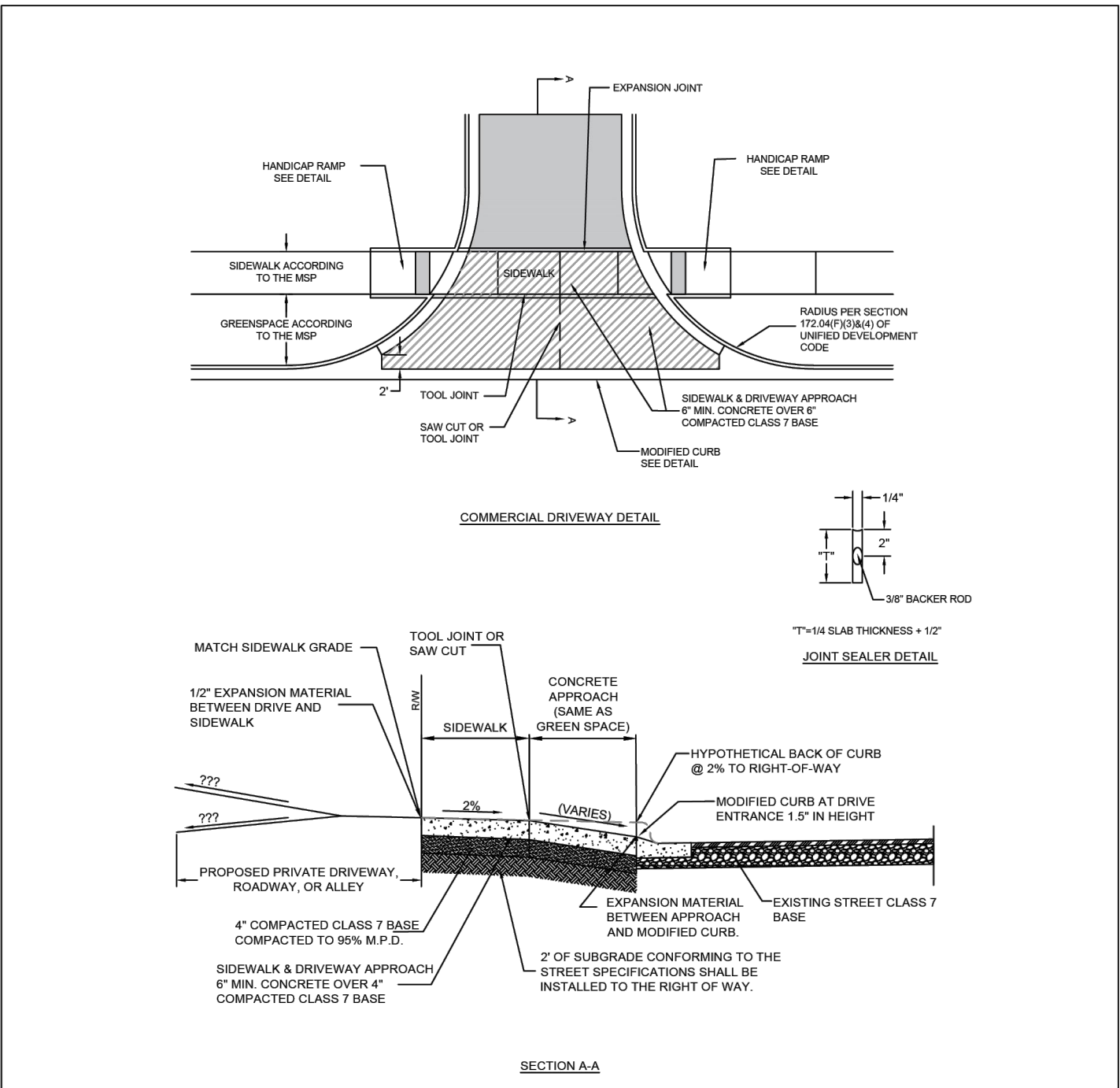
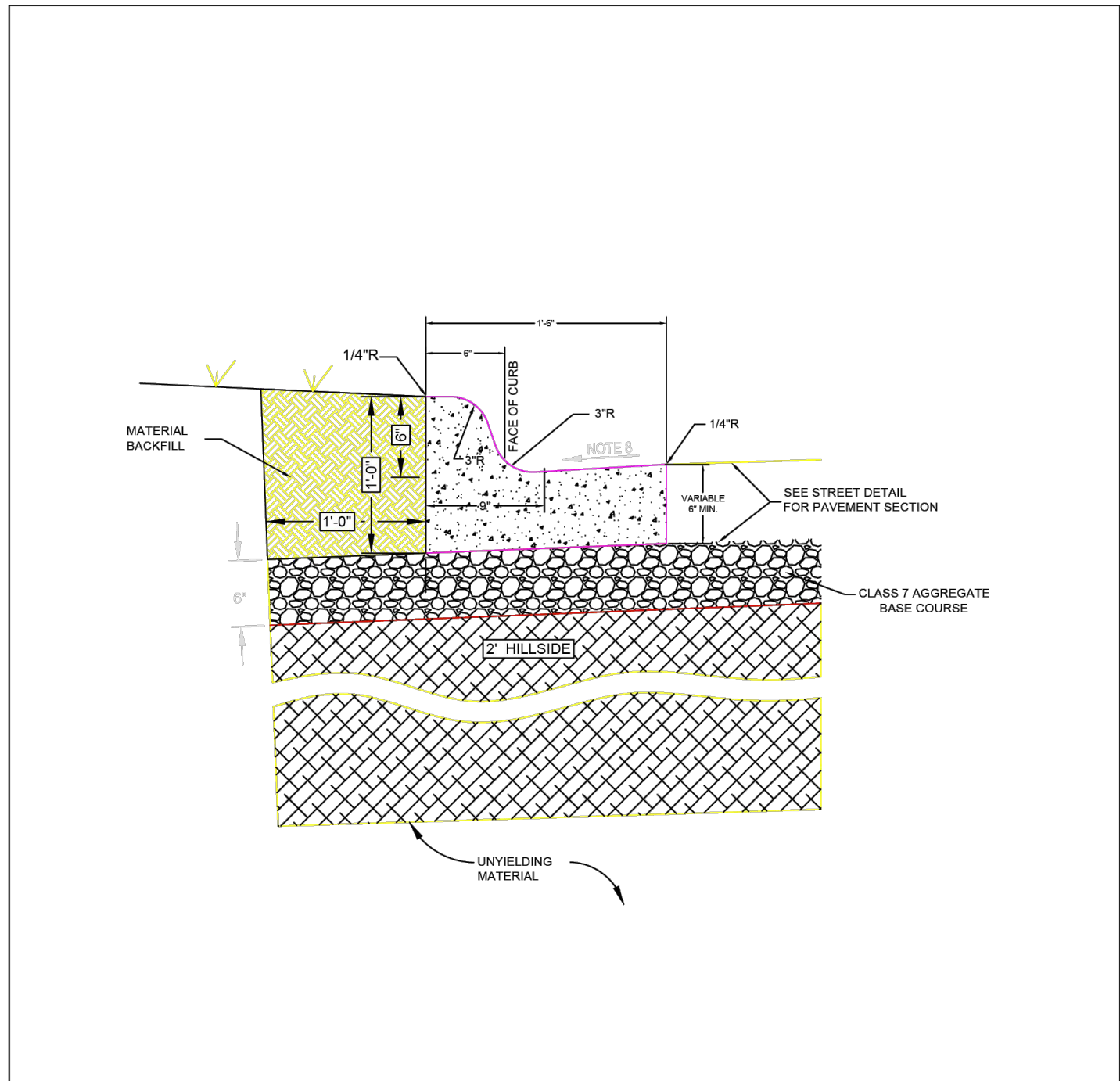


- NOTES:
- SUBGRADE REQUIREMENTS SHALL MEET THE CITY OF BENTONVILLE STREET SPECIFICATIONS.
 - ALL SIDEWALKS ARE TO BE CONSTRUCTED BY LOT OWNERS UNLESS NOTED ON PLANS.
 - WHEELCHAIR RAMPS ARE TO BE CONSTRUCTED ALONG WITH THE STREETS

	DATE:	REVISION:	BY:	TITLE:	DRAWN:
	6/20/2023		HW	CURB AND GUTTER	JUNE 2023
		DETAIL CREATED			APPROVED: JUNE 2023
				TYPE "A" CURB AND GUTTER	CG-1

	DATE:	REVISION:	BY:	TITLE:	DRAWN:
	6/20/2023		HW	COMMERCIAL DRIVEWAY	JUNE 2023
		DETAIL CREATED			APPROVED: JUNE 2023
				STANDARD COMMERCIAL DRIVEWAY WITH GREENSPACE AND SIDEWALK	DW-2

	DATE:	REVISION:	BY:	TITLE:	DRAWN:
	6/7/2023		HW	SIDEWALK	JUNE 2023
		DETAIL CREATED			APPROVED: JUNE 2023
				GENERAL SIDEWALK DETAIL	SW-1



1. CONTRACTION JOINTS SHALL BE 1/8" TO 3/8" X 1 1/2" AT 15 FT. INTERVALS. ALL CONTRACTION JOINTS AND COLD JOINTS SHALL BE FILLED WITH JOINT SEALANT TO FINISHED GRADE.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i.
3. EXPANSION MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES AND ENDS OF CURB RETURNS. THE EXPANSION MATERIAL SHALL BE 1/2" ASPHALT IMPREGATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER THAN GRADE.
4. EXPANSION JOINTS SHALL BE FILLED WITH JOINT SEALANT SHAPED TO THE CROSS SECTION OF THE CURB AND CONSTRUCTED AT RIGHT ANGLES WITH THE CURB LINE.
5. FINISH SHALL BE MEDIUM BROOM FINISH.
6. CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
7. CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL" OR AN APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
8. GUTTER SHALL MATCH THE CROSS SLOPE OF THE ROAD WITHIN ± 0.5%. GUTTER DRAINING THE OPPOSITE DIRECTION AS THE ROAD WILL NOT BE ACCEPTED.

- NOTES:
- FULL DEPTH EXPANSION JOINTS (FOUR INCHES) SHALL BE PROVIDED AT THE EDGE OF THE SIDEWALK OPPOSITE THE STREET.
 - CONCRETE TO BE SAWCUT OR PLACE A TOOL JOINT AT THE CENTER OF DRIVE AND SEALED. IF POSSIBLE CONTRACTOR SHALL TRY TO ALIGN THE JOINT AT THE CENTER OF THE DRIVE WITH THE JOINT IN THE ADJACENT SIDEWALK.
 - ALL CONCRETE DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED OF A PORTLAND CEMENT CONCRETE MIXTURE WHICH WILL PRODUCE A CONCRETE OF A COMPRESSIVE STRENGTH OF 3000 P.S.I. AFTER 28 DAYS SET UNDER STANDARD LABORATORY METHODS.
 - ALL SIDEWALKS REQUIRE A CONCRETE CURING COMPOUND.
 - ALL SIDEWALKS AND DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH A BROOM FINISH.
 - ALL SIDEWALKS AND CURB CUTS FOR DRIVEWAY APPROACHES REQUIRE AN INSPECTION PRIOR TO CONCRETE PLACEMENT.

- SIDEWALK CONSTRUCTION NOTES:
- SIDEWALK SHALL HAVE TOOLED OR SAW-CUT TRANSVERSE JOINTS AT INTERVALS EQUAL TO THE WIDTH OF SIDEWALK (8" TYP.). THESE WEAKENED PLANE (CONTRACTION) JOINTS SHALL BE CONSTRUCTED TO 1/4 DEPTH OF THE SIDEWALK THICKNESS AND SHALL BE 1/8" TO 3/8" WIDE.
 - CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 p.s.i.
 - CONCRETE SHALL MEET ADOPTED REQUIREMENTS FOR SIDEWALK.
 - CONTRACTION JOINTS SHALL BE PLACED AT AN INTERVAL 1X'S THE WIDTH OF THE SIDEWALK AND EXPANSION SHALL BE PLACED AT AN INTERVAL OF 5X'S THE WIDTH OF THE SIDEWALK.
 - EXPANSION JOINT MATERIAL SHALL BE PREFORMED ASPHALT IMPREGATED FIBERBOARD CONFORMING TO AASHTO M-213. EXPANSION JOINT MATERIAL SHALL BE LEFT 1/2" LOWER THAN GRADE OR TRIMMED 1/2" LOWER, AND FILLED WITH SILICONE SEALER TO FINISHED GRADE.
 - ALL COLD JOINTS AND SAW-CUT JOINTS SHALL BE FILLED TO FINISHED GRADE WITH JOINT SEALANT.
 - CONCRETE CURING COMPOUND SHALL BE SEALTIGHT 1600-WHITE MANUFACTURED BY W.R. MEADOWS, OR AN APPROVED EQUAL.
 - CONCRETE JOINT SEALANT SHALL BE SONNEBORN "SONOLASTIC SL" OR AN APPROVED EQUAL. CLOSED CELL BACKER ROD SHALL BE USED IN DEEP JOINTS, AS NEEDED, ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.
 - ALL SIDEWALKS SHALL HAVE ONE-HALF" INCH ROLLED EDGES AND A BROOMED FINISH.

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR
CENTERTON, AR 72719



2407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL: (479) 272-2209

REVISION NO.	DATE	DESCRIPTION

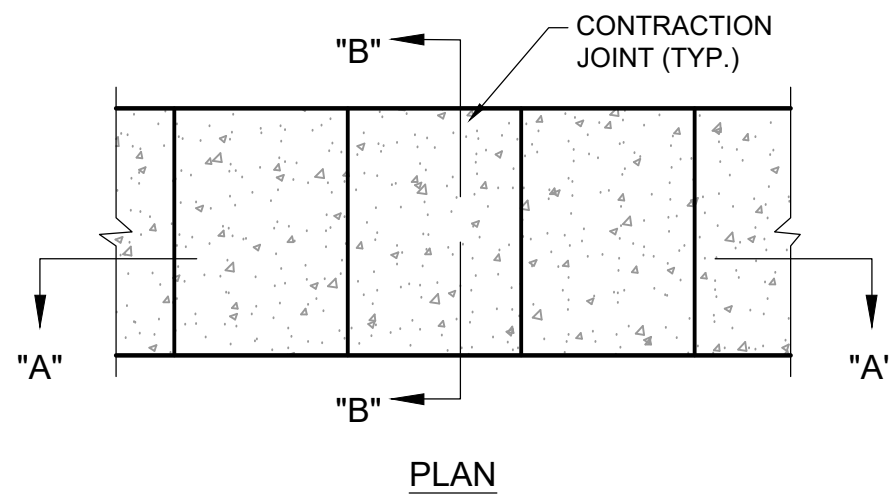
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TOM BURRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 FIRM / BUSINESS NO. AR STATE

PROJECT NO.: 57802.001
ISSUED: MARCH 2025
DRAWN BY: KES
CHECKED BY: DH
SCALE: NTS
SHEET TITLE:
CITY DETAILS AND
TYPICAL SECTION
LSD25-0027

C700

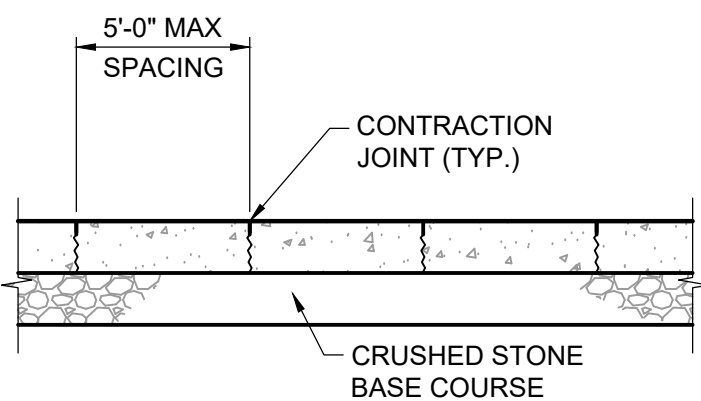
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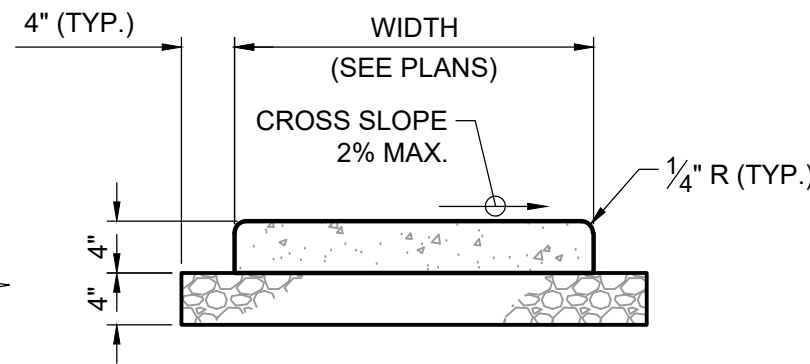
PLAN

NOTES:

1. CONCRETE REINFORCEMENT SHALL BE 6x6, W1.4xW1.4 WWF OR NO. 3 REBAR AT 24" O.C. EACH WAY PLACED AT MID-SLAB OR FIBER REINFORCEMENT.
2. TRANSVERSE CONTRACTION JOINTS SHALL BE 1/4" RADIUS TOOLED JOINTS 1/2" DEEP OR SAWED CONTRACTION JOINTS.
3. FULL DEPTH EXPANSION JOINTS SHALL BE PROVIDED AT A MAXIMUM SPACING OF 25'-0" O.C., AND AT THE SIDEWALK INTERFACE WITH FIXED OBJECTS.

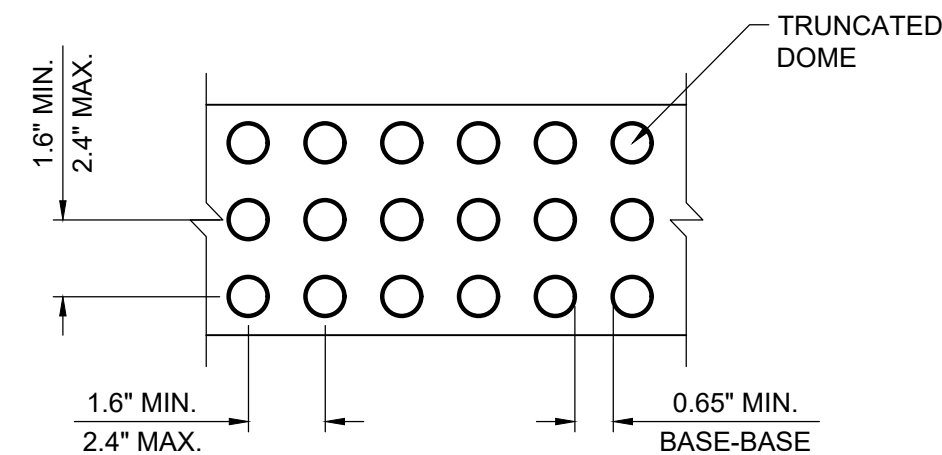
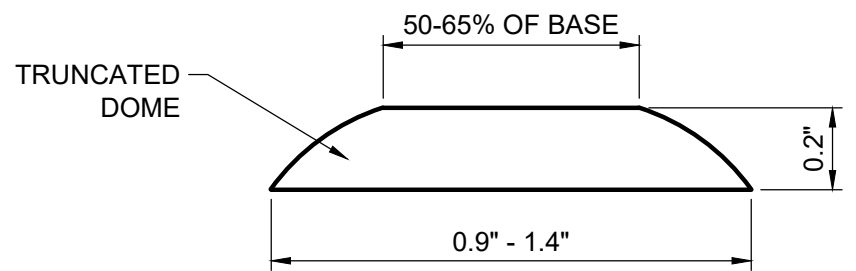


SECTION "A-A"



SECTION "B-B"

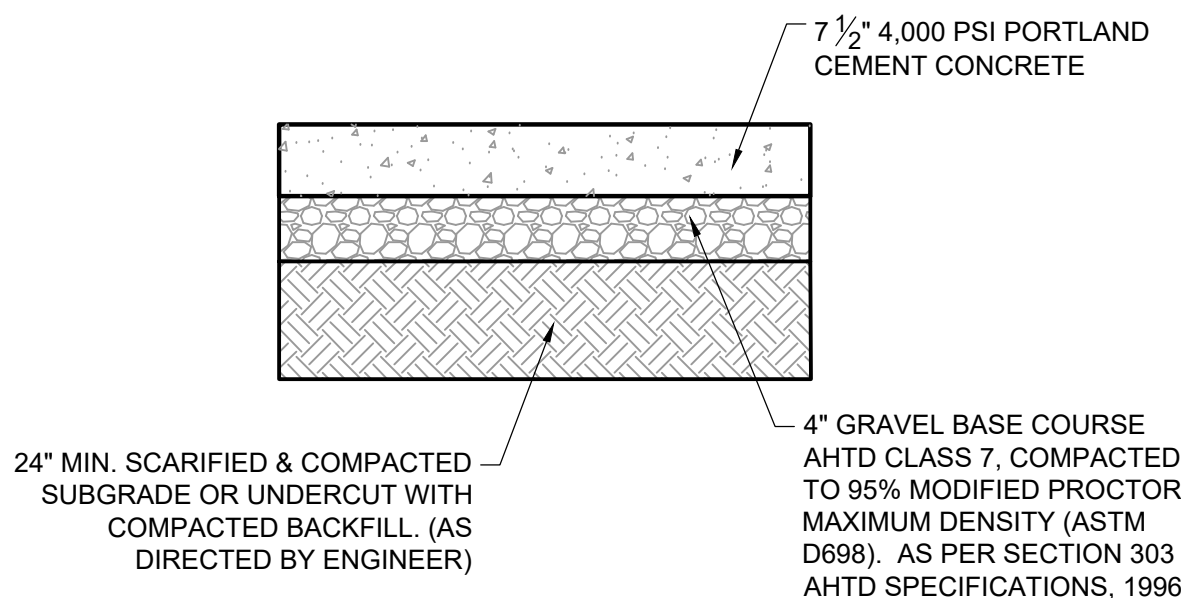
PS 30: CONCRETE SIDEWALK
NOT TO SCALE 4-25-2024



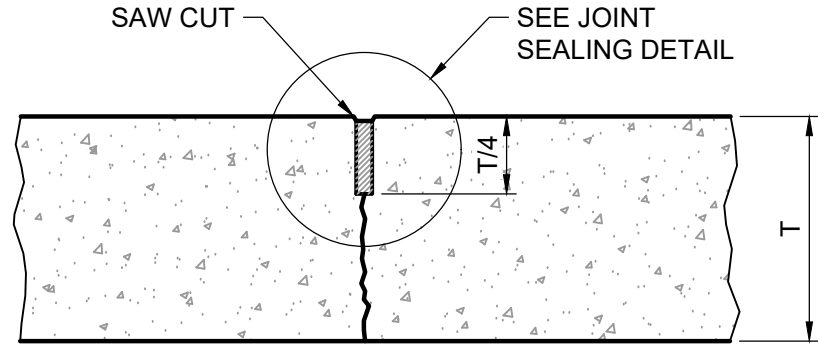
NOTES:

1. THE DETECTABLE WARNING DEVICE SHALL BE LOCATED SO THAT THE NEAREST EDGE OF THE DEVICE IS 6 TO 8 INCHES FROM THE FACE OF THE CURB.
2. TRUNCATED DOMES IN THE DETECTABLE WARNING SURFACE SHALL MEET THE REQUIREMENTS OF THE GEOMETRIC CONFIGURATION SHOWN.
3. DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
4. DETECTABLE WARNING DEVICE SHALL BE 24 INCHES IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE.

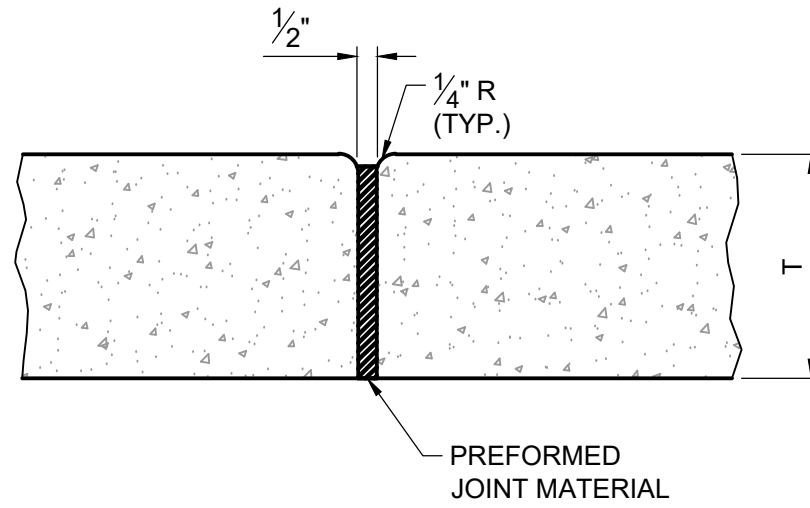
PS-60: DETECTABLE WARNING DEVICE
NOT TO SCALE 8-7-2024



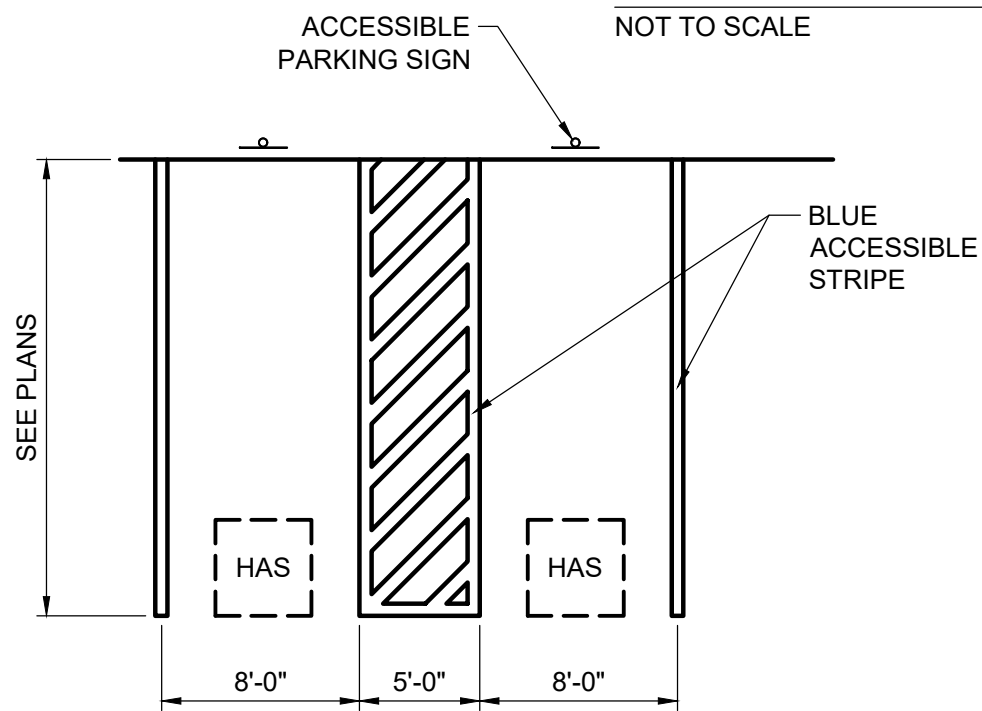
HEAVY DUTY DUMPSTER PAD
NOT TO SCALE 09-06-2024



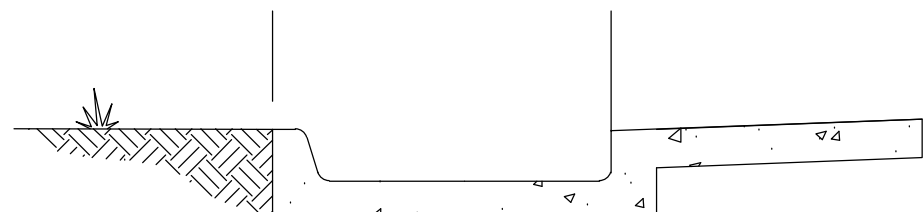
ST-60: CONTRACTION JOINT - PLAIN
NOT TO SCALE 8-9-2024



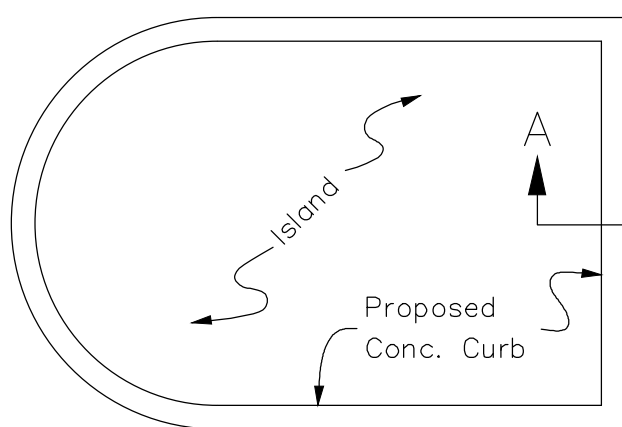
ST-110: EXPANSION JOINT
NOT TO SCALE 8-14-2024



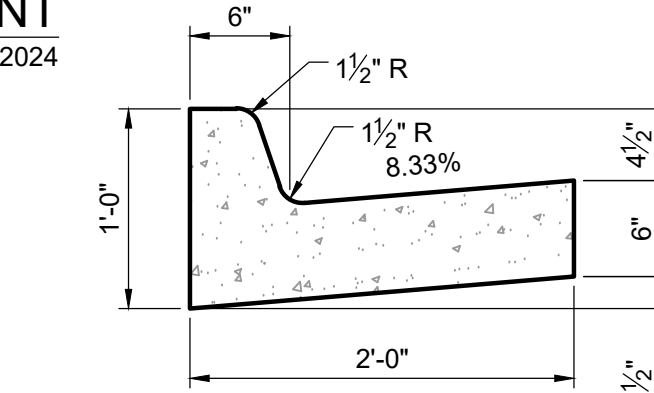
PS-80: ACCESSIBLE PARKING SPACE LAYOUT
NOT TO SCALE 8-9-2024



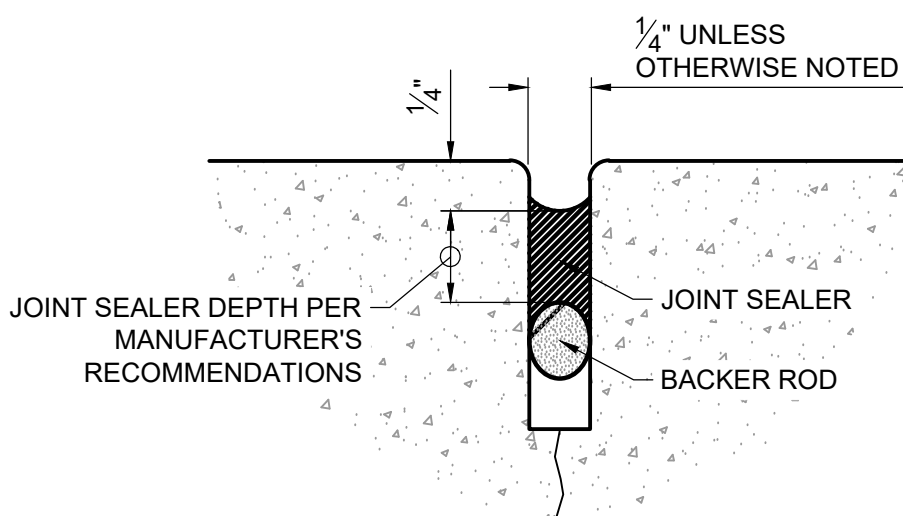
SECTION "A-A"



CONCRETE ISLAND SWALE
N.T.S.



ST-10: TYPE 'A' CURB & GUTTER
NOT TO SCALE 8-9-2024



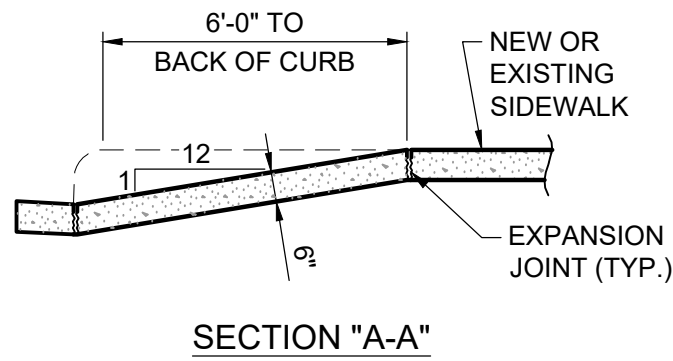
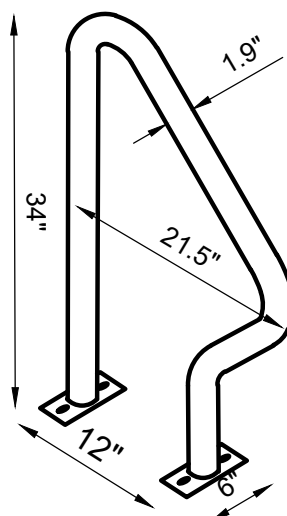
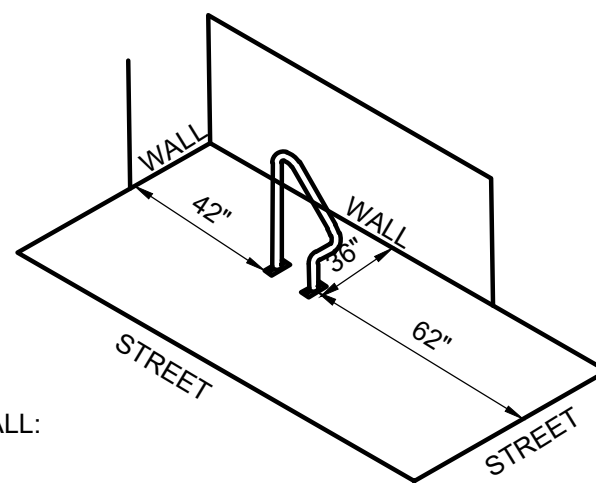
ST-120: CONCRETE JOINT SEALING
NOT TO SCALE 8-14-2024

WALL SETBACKS:
FOR RACKS PARALLEL TO A WALL:
MINIMUM: 24"
RECOMMENDED: 36"

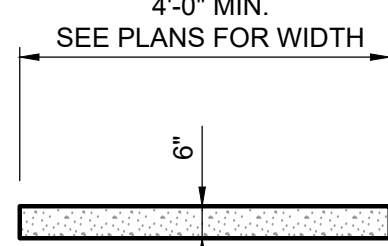
FOR RACKS PERPENDICULAR TO A WALL:
MINIMUM: 28"
RECOMMENDED: 42"

DISTANCE BETWEEN RACKS:
MINIMUM: 24"
RECOMMENDED: 36"

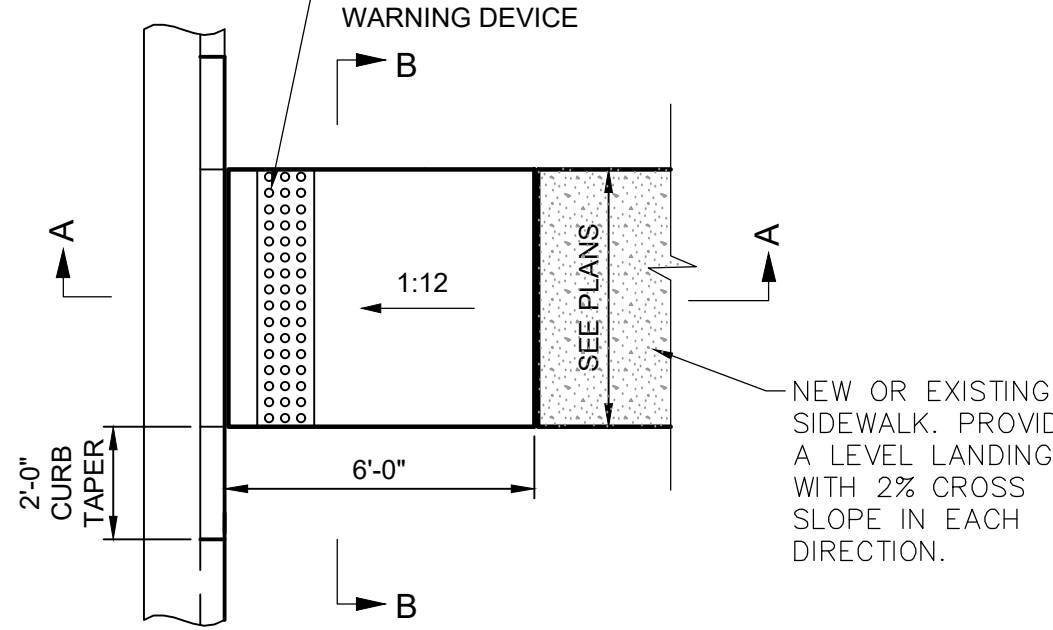
STREET SETBACKS:
MINIMUM 24"
RECOMMENDED: 36"



SECTION "A-A"

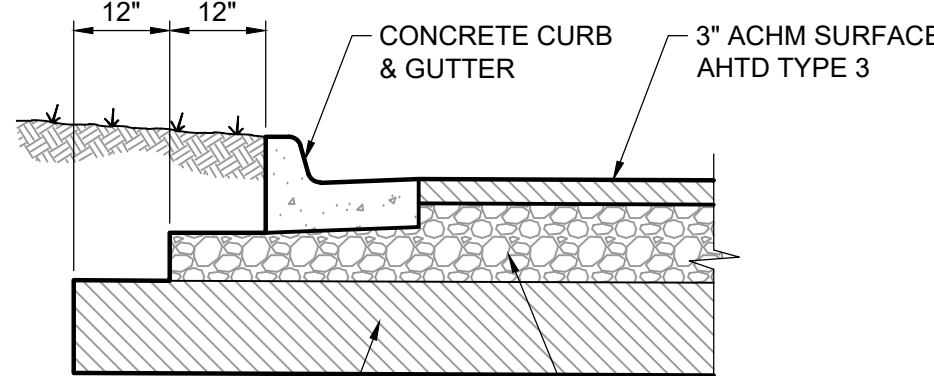


SECTION "B-B"

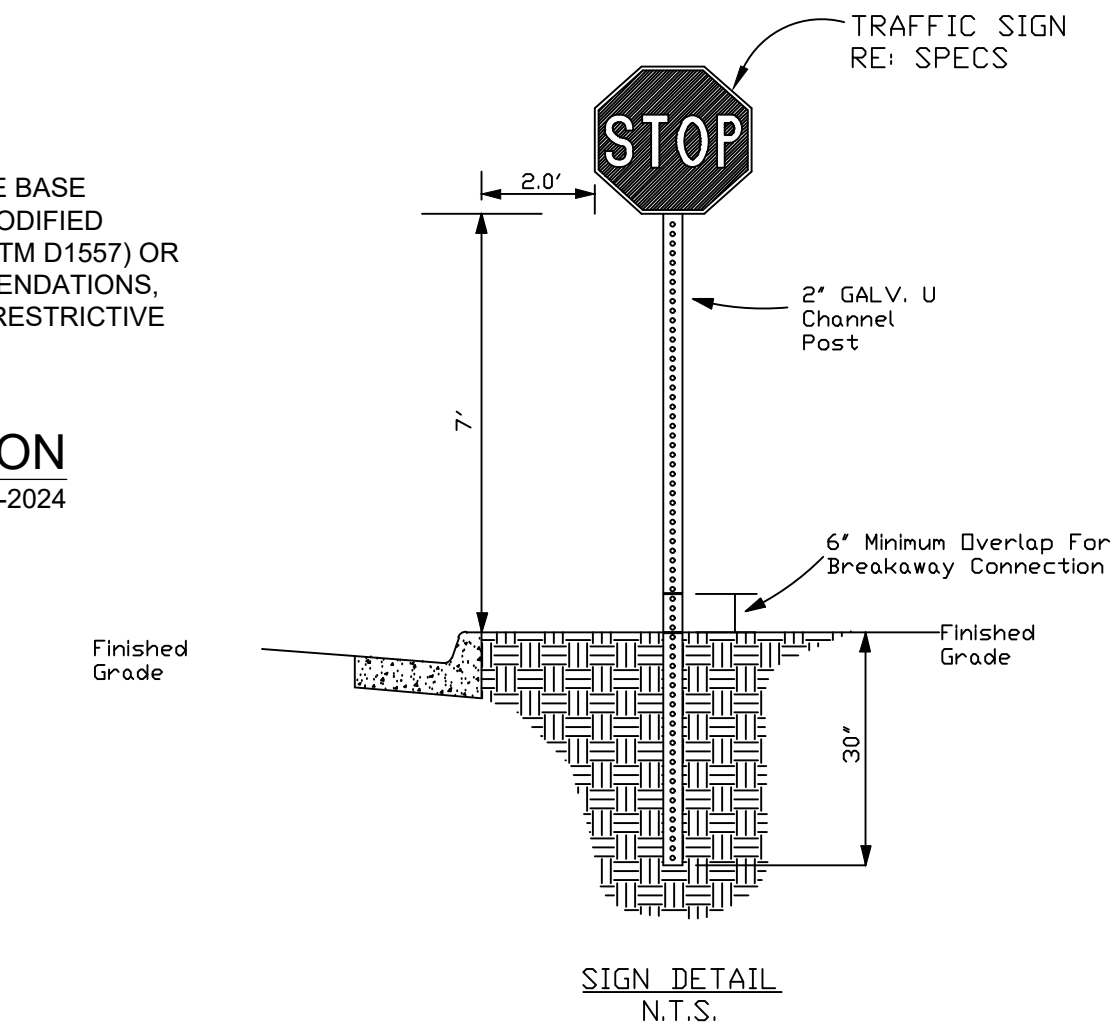


PLAN @ HANDICAP ACCESS RAMP

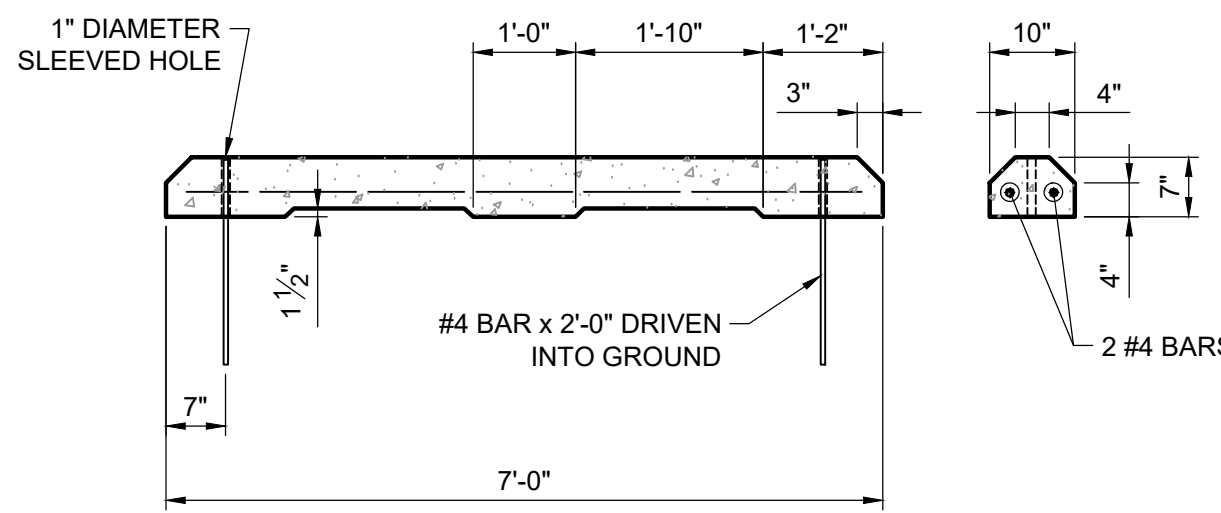
TYPE "B" HANDICAP RAMP IN SIDEWALK
NOT TO SCALE



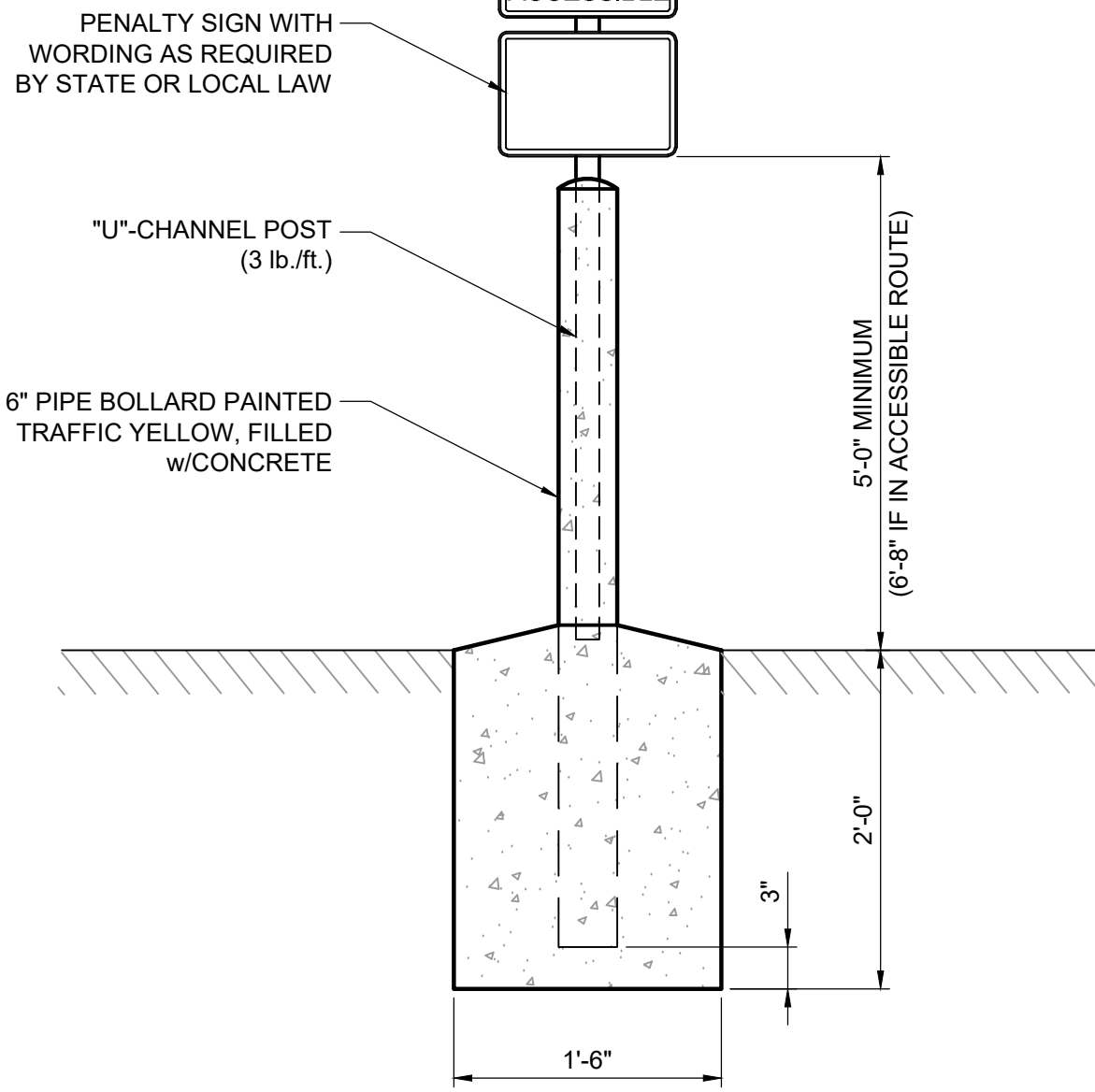
PS-10: ASPHALT PARKING PAVEMENT SECTION
NOT TO SCALE 4-24-2024



SIGN DETAIL
N.T.S.



PS-130: PRECAST CONCRETE WHEELSTOP
NOT TO SCALE 8-9-2024



PS-100: HANDICAP ACCESSIBLE PARKING SIGN
NOT TO SCALE 8-9-2024

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR
CENTERTON, AR 72719



2407 SE COTTONWOOD ST.
SUITE 100
NORFOLK, VA 23502
TEL: (757) 275-2209

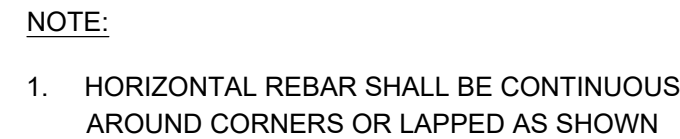
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TOM BURRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802-001
ISSUED: MARCH 2025
DRAWN BY: KES
CHECKED BY: PRF
SCALE: NTS
SHEET TITLE:

MISCELLANEOUS
DETAILS
LSD25-0027

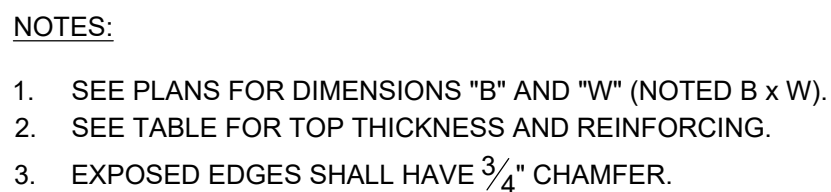
C701



TOP REINFORCING FOR INLETS & JUNCTION BOXES FOR LOCATIONS <u>NOT</u> SUBJECT TO TRAFFIC LOADING			
MAX. SPAN "B" or "W"	THICKNESS	SHORT SPAN REINFORCING	LONG SPAN REINFORCING
UP to 7'-0"	6"	#4 @ 12"	#4 @ 12"
7'-1" to 8'-0"	6"	#4 @ 10"	#4 @ 12"
8'-1" to 9'-0"	6"	#4 @ 8"	#4 @ 12"
9'-1" to 10'-0"	6"	#4 @ 6"	#4 @ 12"



Diagram illustrating the cross-section of a concrete wall and floor assembly. The wall is 1' thick and 6" high. The floor is 4" thick. A 6" clearance is shown between the wall and the floor. Reinforcement includes #4 bars at 12" O.C. E.W. and 4000 PSI PORTLAND CEMENT CONCRETE.



CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON
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CENTERTON, AR 72719



2407 SE COTTONWOOD ST.
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BENTONVILLE, AR 72712
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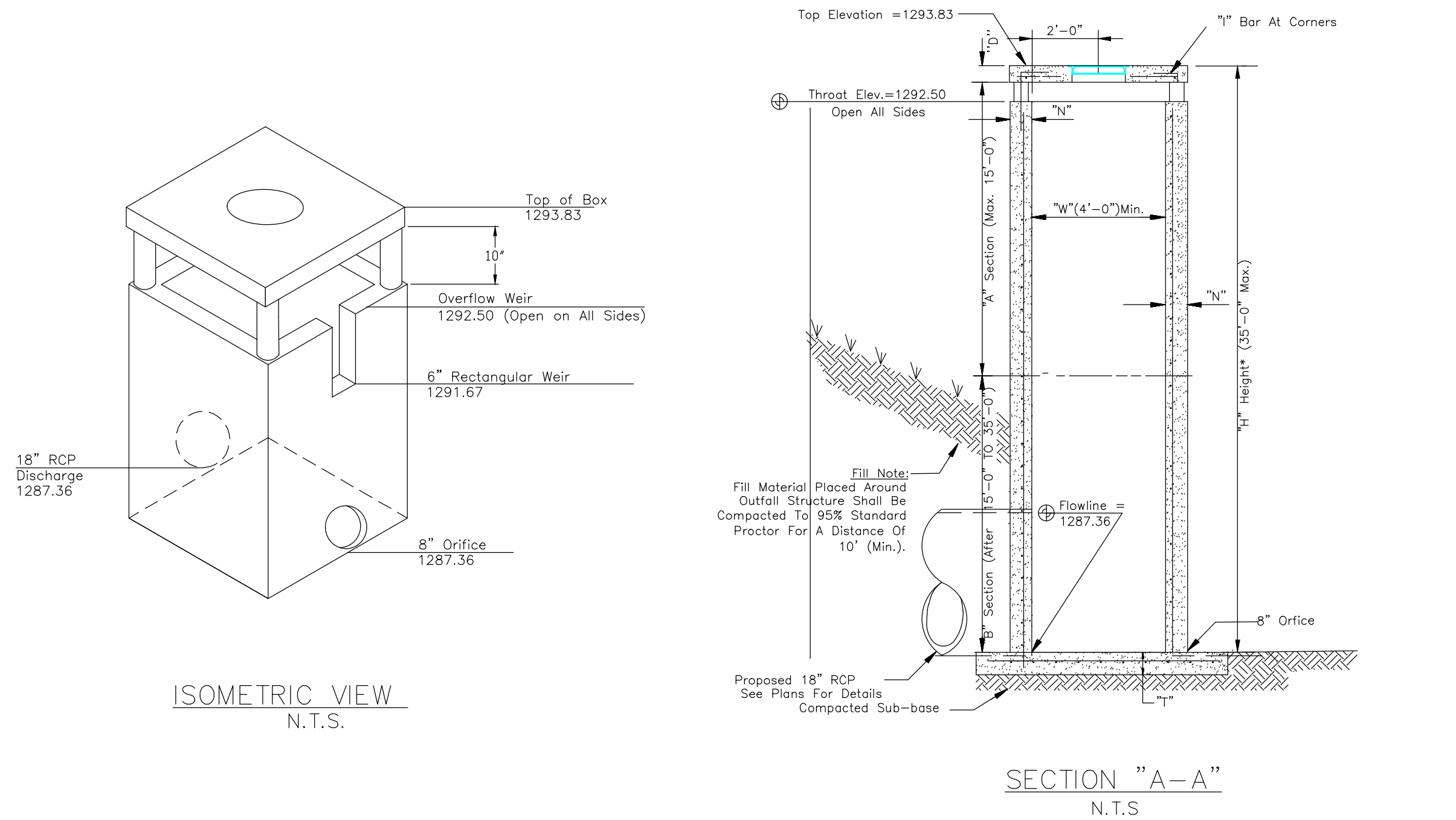
TOM BURRY	14691
NAME	PE LICENSE NO.
7/3/2025	
DATE	
1470	AR
FIRM / BUSINESS NO.	STATE

PROJECT NO.:	57802.001
ISSUED:	MARCH 2025
DRAWN BY:	KES
CHECKED BY:	DH
SCALE:	NTS
SHEET TITLE:	

MISCELLANEOUS
DETAILS
LSD25-0027

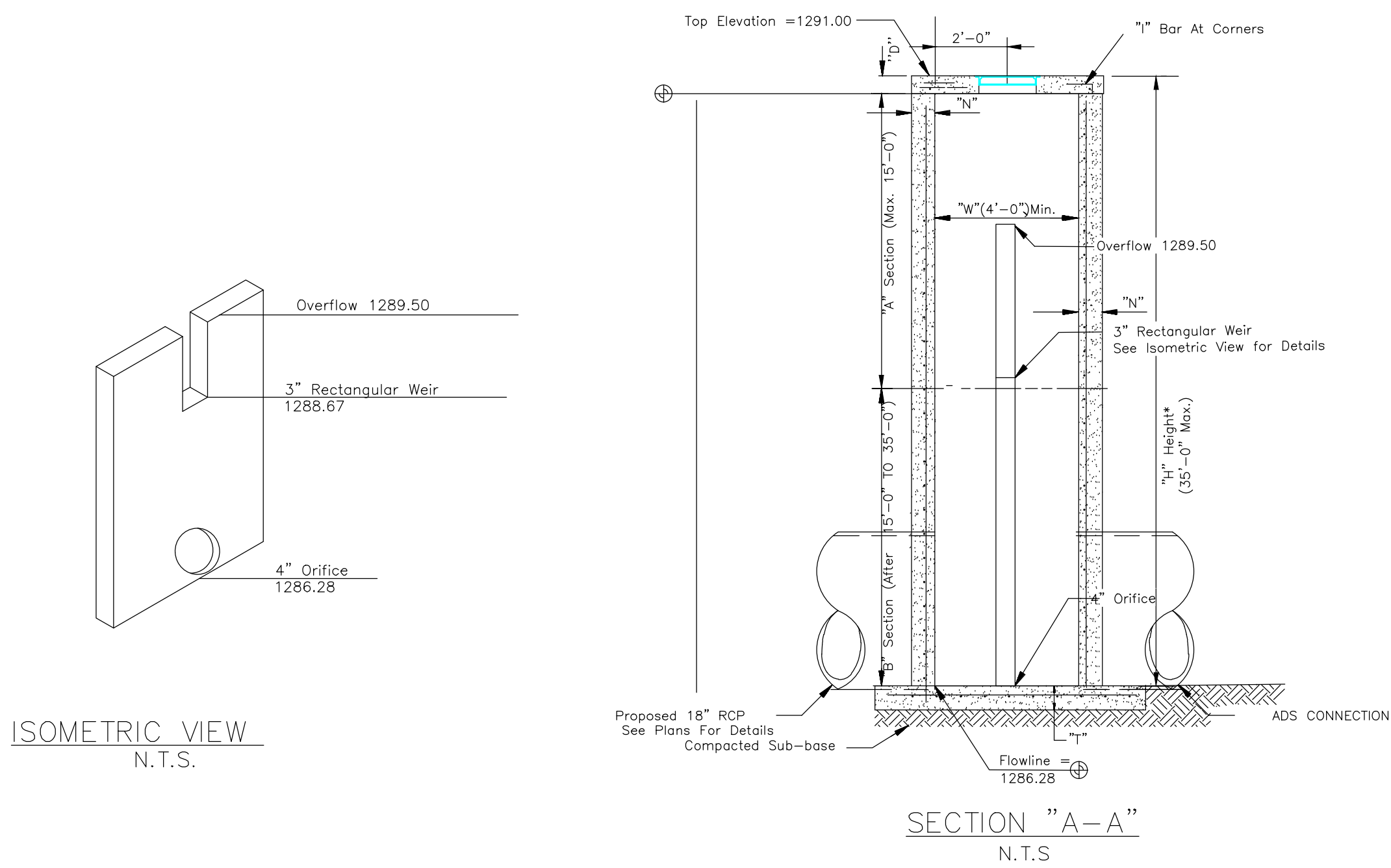
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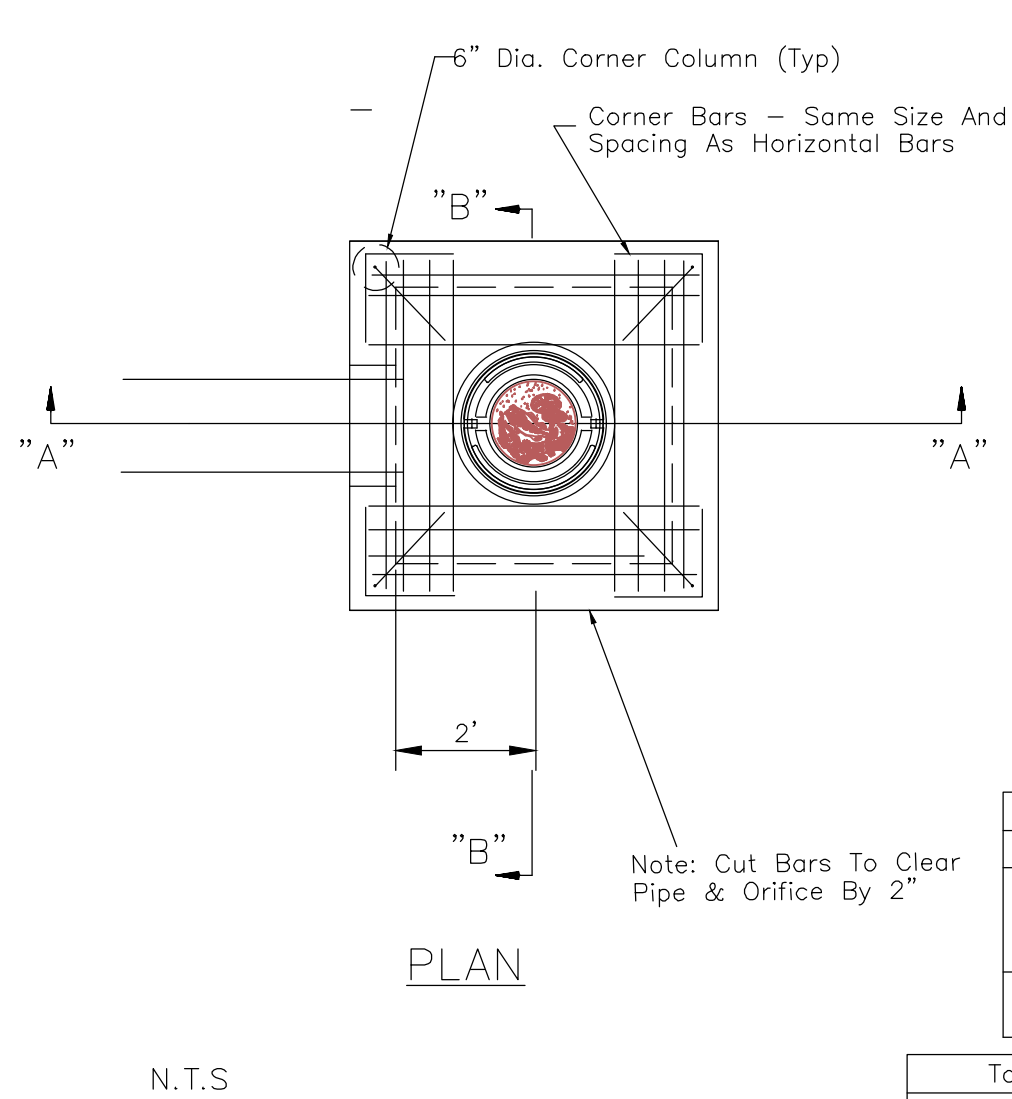
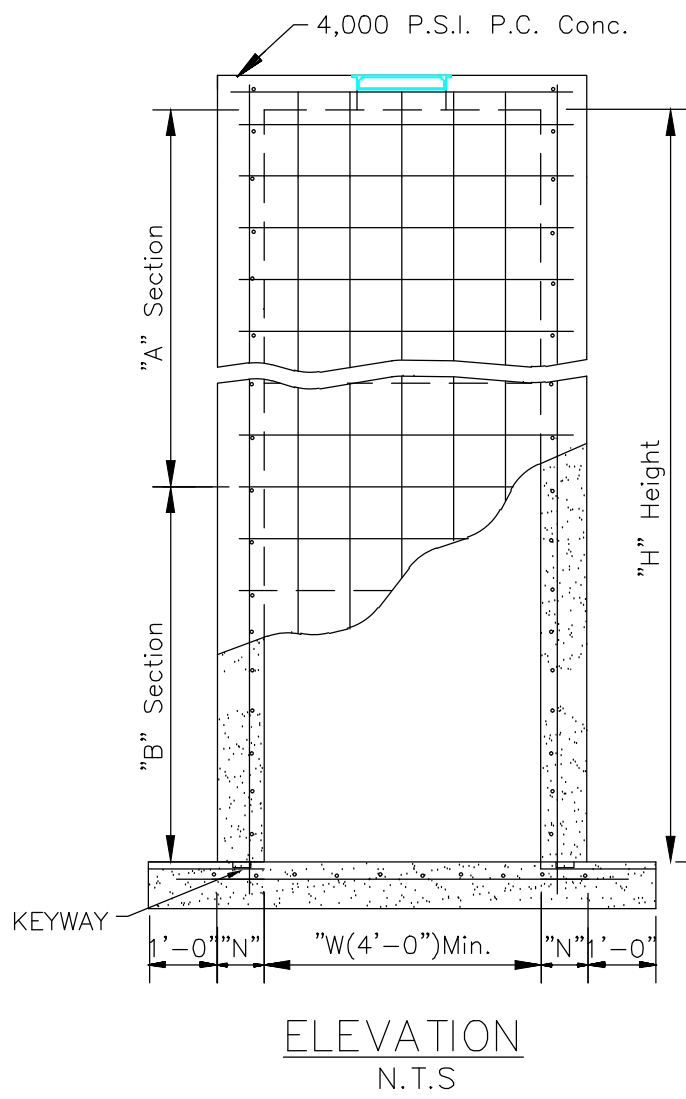
DETENTION POND OUTLET STRUCTURE

Not to Scale



UNDERGROUND DETENTION OUTLET STRUCTURE

Not to Scale



General Notes:

- All Exposed Corners To Have 3/4" Chamfer.
- All #4 & #5 Reinforcing Bars To Have 1-1/2" Cover, Larger Sizes To Have 2" Cover.
- See Grading And Drainage Plan For Pipe Sizes, Locations, And Flow Lines.
- Pipes Shall Connect To The Ends Or Sides Of The Inlet. Connection Shall Not Be Made At Corners Of Inlet.
- All Reinforcing Bars To Be Grade 60.
- Provide Steps In Structure When Depth Is 4' Or Greater.

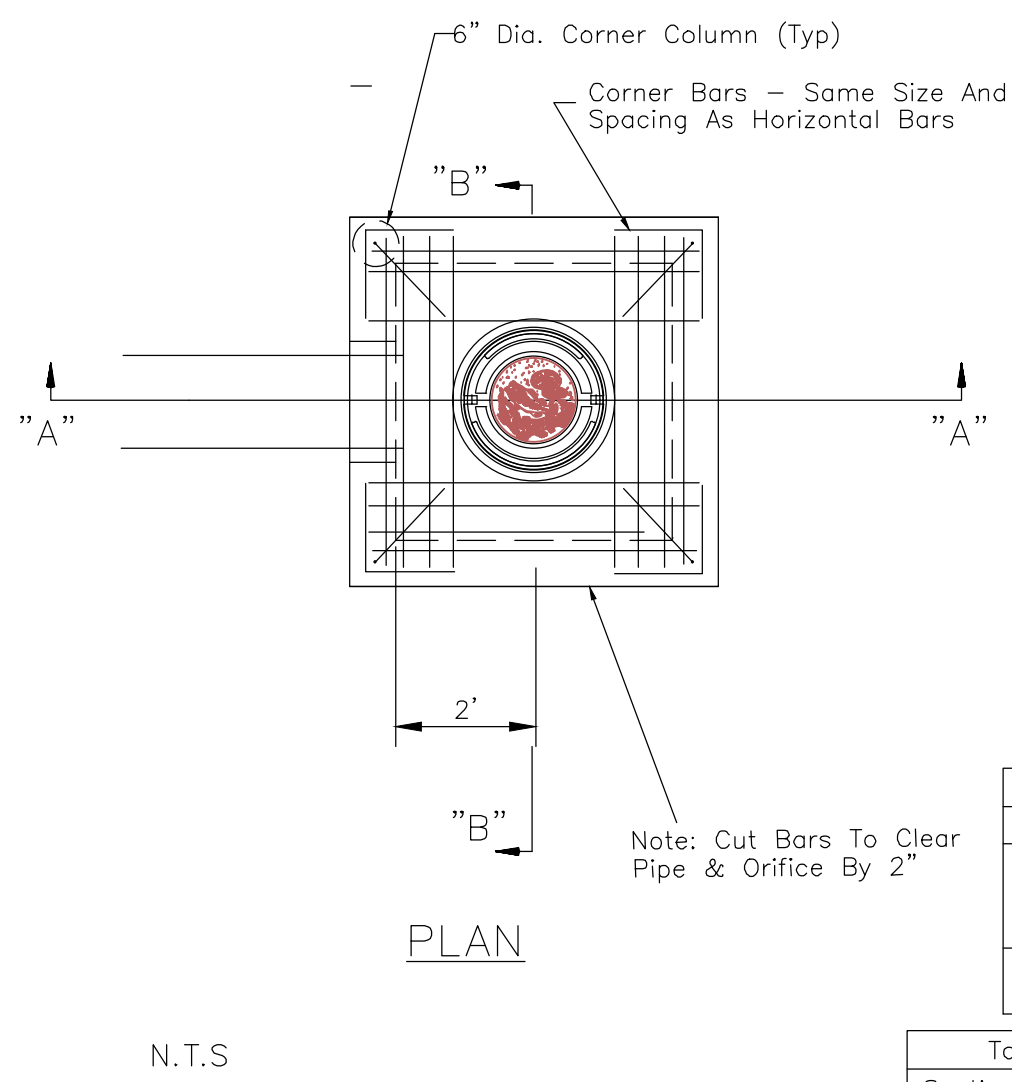
Reinforcement Schedule, Base			
Section			
"A"	#4's @ 6" E.W.		
"B"	#6's @ 6" E.W.		

Table Of 'W' Dimensions			
Pipe Size	Skew Of Cross Drain		
Single	Straight	30"	45"
24"	4'-0"	4'-0"	4'-10"
30"	4'-0"	4'-7"	5'-8"
36"	4'-0"	5'-3"	6'-5"
42"	5'-3"	5'-11"	7'-3"
48"	5'-10"	6'-7"	8'-0"
60"	7'-0"	7'-10"	9'-8"
Double	For "A" Section Only		
24"	7'-0"	7'-10"	9'-5"
30"	8'-2"	9'-2"	11'-0"
36"	9'-4"	10'-6"	12'-6"
42"	10'-6"	11'-10"	14'-2"
48"	11'-8"	13'-2"	15'-10"

Reinforcement Schedule, Walls			
Section	Width ("w")	Hor.	Vert.
"A"	4'	#4's @ 9"	#4's @ 10"
	Between 4' & 7'	#6's @ 9"	#4's @ 10"
	Greater Than 7'	#5's @ 4 1/2"	#4's @ 10"
"B"	4'	#4's @ 6"	#4's @ 10"
	Between 4' & 7'	#6's @ 6"	#4's @ 10"

Table Of "T" & "N" Dimensions			
Section	Width ("W")	"T"	"N"
"A"	Between 4' & 7'	6" + Pipe Thickness	8"
	Greater Than 7'	6" + Pipe Thickness	8"
"B"	4'	6" + Pipe Thickness	8"
	Between 4' & 7'	6" + Pipe Thickness	10"

Reinforcement Schedule, Top		
Dimensions	Steel	Special Pattern
W1 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W2 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W1 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W2 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover
W1 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover
W2 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover



General Notes:

- All Exposed Corners To Have 3/4" Chamfer.
- All #4 & #5 Reinforcing Bars To Have 1-1/2" Cover, Larger Sizes To Have 2" Cover.
- See Grading And Drainage Plan For Pipe Sizes, Locations, And Flow Lines.
- Pipes Shall Connect To The Ends Or Sides Of The Inlet. Connection Shall Not Be Made At Corners Of Inlet.
- All Reinforcing Bars To Be Grade 60.
- Provide Steps In Structure When Depth Is 4' Or Greater.

Reinforcement Schedule, Base			
Section			
"A"	#4's @ 6" E.W.		
"B"	#6's @ 6" E.W.		

Table Of 'W' Dimensions			
Pipe Size	Skew Of Cross Drain		
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42"	5'-3"	5'-11"	7'-3"
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Double	For "A" Section Only		
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30"	8'-2"	9'-2"	11'-0"
36"	9'-4"	10'-6"	12'-6"
42"	10'-6"	11'-10"	14'-2"
48"	11'-8"	13'-2"	15'-10"

Reinforcement Schedule, Walls			
Section	Width ("w")	Hor.	Vert.
"A"	4'	#4's @ 9"	#4's @ 10"
	Between 4' & 7'	#6's @ 9"	#4's @ 10"
	Greater Than 7'	#5's @ 4 1/2"	#4's @ 10"
"B"	4'	#4's @ 6"	#4's @ 10"
	Between 4' & 7'	#6's @ 6"	#4's @ 10"

Table Of "T" & "N" Dimensions			
Section	Width ("W")	"T"	"N"
"A"	Between 4' & 7'	6" + Pipe Thickness	8"
	Greater Than 7'	6" + Pipe Thickness	8"
"B"	4'	6" + Pipe Thickness	8"
	Between 4' & 7'	6" + Pipe Thickness	10"

Reinforcement Schedule, Top		
Dimensions	Steel	Special Pattern
W1 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W2 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W1 = 7' Or Less	#4's @ 8" E.W.	Diagonal @ Cover
W2 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover
W1 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover
W2 = 7' Or Greater	#4's @ 6" E.W.	Diagonal @ Cover

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR
CENTERTON, AR 72719

half

2407 SE COTTONWOOD ST.
SUITE 100
CENTERTON, AR 72712
TEL (479) 272-2209

REVISION		DESCRIPTION	
NO.	DATE		

PRELIMINARY
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TOM BURRY 14691
NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001

ISSUED: MARCH 2025

DRAWN BY: KES

CHECKED BY: DH

SCALE: NTS

SHEET TITLE:
OUTLET
STRUCTURE
DETAILS
LSD25-0027

C703

FILE NAME: A:\57000us\57802\001\LD\CADD\Sheets\C-PLAN-DTL5-57802-001.dwg DATE: July 3, 2025, TIME: 2:45 PM, USER: at5035

PROJECT INFORMATION

ENGINEERED PRODUCT MANAGER:	DIRK HUDSON 816-622-4201 DIRK.HUDSON@ADSDPIPE.COM
ADS SALES REP:	CHANDLER TEDDER 501-831-2063 CHANDLER.TEDDER@ADSDPIPE.COM
PROJECT NO:	S468745



Advanced Drainage Systems, Inc.



ADS
SiteAssist
FOR STORMTECH
INSTALLATION INSTRUCTIONS
VISIT OUR WEBSITE

CALVARY CHURCH ADDITION

BENTONVILLE, AR

SC-800 STORMTECH CHAMBER SPECIFICATIONS

1. CHAMBERS SHALL BE STORMTECH SC-800.

2. CHAMBERS SHALL BE ARCH-SHAPED AND SHALL BE MANUFACTURED FROM VIRGIN, IMPACT-MODIFIED POLYPROPYLENE COPOLYMERS.

3. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".

4. CHAMBER ROWS SHALL PROVIDE CONTINUOUS, UNOBSTRUCTED INTERNAL SPACE WITH NO INTERNAL SUPPORTS THAT WOULD IMPERE FLOW OR LIMIT ACCESS FOR INSPECTION.

5. THE STRUCTURAL DESIGN OF THE CHAMBERS, THE STRUCTURAL BACKFILL, AND THE INSTALLATION REQUIREMENTS SHALL ENSURE THAT THE LOAD FACTORS SPECIFIED IN THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, SECTION 12.12, ARE MET FOR: 1) LONG-DURATION DEAD LOADS AND 2) SHORT-DURATION LIVE LOADS, BASED ON THE AASHTO DESIGN TRUCK WITH CONSIDERATION FOR IMPACT AND MULTIPLE VEHICLE PRESENCES.

6. CHAMBERS SHALL BE DESIGNED AND ALLOWABLE LOAD CONFIGURATIONS DETERMINED IN ACCORDANCE WITH ASTM F2787, "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS". LOAD CONFIGURATIONS SHALL INCLUDE: 1) INSTANTANEOUS (<1 MIN) AASHTO DESIGN TRUCK LIVE LOAD ON MINIMUM COVER 2) MAXIMUM PERMANENT (75-YR) COVER LOAD AND 3) ALLOWABLE COVER WITH PARKED (1-WEEK) AASHTO DESIGN TRUCK.

7. REQUIREMENTS FOR HANDLING AND INSTALLATION:

- TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
- TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 2".
- TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 750 LBS/FT³. THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

8. ONLY CHAMBERS THAT ARE APPROVED BY THE SITE DESIGN ENGINEER WILL BE ALLOWED. UPON REQUEST BY THE SITE DESIGN ENGINEER OR OWNER, THE CHAMBER MANUFACTURER SHALL SUBMIT A STRUCTURAL EVALUATION FOR APPROVAL BEFORE DELIVERING CHAMBERS TO THE PROJECT SITE AS FOLLOWS:

- THE STRUCTURAL EVALUATION SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEER.
- THE STRUCTURAL EVALUATION SHALL DEMONSTRATE THAT THE SAFETY FACTORS ARE GREATER THAN OR EQUAL TO 1.95 FOR DEAD LOAD AND 1.75 FOR LIVE LOAD, THE MINIMUM REQUIRED BY ASTM F2787 AND BY SECTIONS 3 AND 12.12 OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS FOR THERMOPLASTIC PIPE.
- THE TEST DERIVED CREEP MODULUS AS SPECIFIED IN ASTM F2418 SHALL BE USED FOR PERMANENT DEAD LOAD DESIGN EXCEPT THAT IT SHALL BE THE 75-YEAR MODULUS USED FOR DESIGN.

9. CHAMBERS AND END CAPS SHALL BE PRODUCED AT AN ISO 9001 CERTIFIED MANUFACTURING FACILITY.

10. MANIFOLD SIZE TO BE DETERMINED BY SITE DESIGN ENGINEER. SEE TECHNICAL NOTE 6.32 FOR MANIFOLD SIZING GUIDANCE. DUE TO THE ADAPTATION OF THIS CHAMBER SYSTEM TO SPECIFIC SITE AND DESIGN CONSTRAINTS, IT MAY BE NECESSARY TO CUT AND COUPLE ADDITIONAL PIPES TO STANDARD MANIFOLD COMPONENTS IN THE FIELD.

11. ADS DOES NOT DESIGN OR PROVIDE MEMBRANE LINER SYSTEMS. TO MINIMIZE THE LEAKAGE POTENTIAL OF LINER SYSTEMS, THE MEMBRANE LINER SYSTEM SHOULD BE DESIGNED BY A KNOWLEDGEABLE GEOTEXTILE PROFESSIONAL AND INSTALLED BY A QUALIFIED CONTRACTOR.

IMPORTANT - NOTES FOR THE BIDDING AND INSTALLATION OF THE SC-800 SYSTEM

1. STORMTECH SC-800 CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.

2. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".

3. CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR AN EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:

- STONESHOOTER LOCATED OFF THE CHAMBER BED.
- BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
- BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.

4. THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.

5. JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.

6. MAINTAIN MINIMUM - 6" (150 mm) SPACING BETWEEN THE CHAMBER ROWS.

7. EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE; AASHTO M43 #3, 357, 4, 467, 5, 56, OR 57.

8. THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIALS BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.

9. ADS RECOMMENDS THE USE OF "LEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.

NOTES FOR CONSTRUCTION EQUIPMENT

1. STORMTECH SC-800 CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".

2. THE USE OF CONSTRUCTION EQUIPMENT OVER SC-800 CHAMBERS IS LIMITED:

- NO EQUIPMENT IS ALLOWED ON BARE CHAMBERS.
- NO RUBBER Tired LOADERS, DUMP TRUCKS, OR EXCAVATORS ARE ALLOWED UNTIL PROPER FILL DEPTHS ARE REACHED IN ACCORDANCE WITH THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".
- WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT CAN BE FOUND IN THE "STORMTECH SC-310/SC-740/SC-800/DC-780 CONSTRUCTION GUIDE".

3. FULL 36" (900 mm) OF STABILIZED COVER MATERIALS OVER THE CHAMBERS IS REQUIRED FOR DUMP TRUCK TRAVEL OR DUMPING.

USE OF A DOZER TO PUSH EMBEDMENT STONE BETWEEN THE ROWS OF CHAMBERS MAY CAUSE DAMAGE TO THE CHAMBERS AND IS NOT AN ACCEPTABLE BACKFILL METHOD. ANY CHAMBERS DAMAGED BY THE "DUMP AND PUSH" METHOD ARE NOT COVERED UNDER THE STORMTECH STANDARD WARRANTY.

CONTACT STORMTECH AT 1-800-821-6710 WITH ANY QUESTIONS ON INSTALLATION REQUIREMENTS OR WEIGHT LIMITS FOR CONSTRUCTION EQUIPMENT.

PROPOSED LAYOUT

172	STORMTECH SC-800 CHAMBERS
30	STORMTECH SC-800 END CAPS
6	STONE ABOVE (in)
6	STONE BELOW (in)
40	1% STONE VOID
15,807	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED)
7014	SYSTEM AREA (ft ²)
360	SYSTEM PERIMETER (ft)

PROPOSED ELEVATIONS

1297.53	MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED)
1291.28	MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC)
1290.78	MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC)
1290.78	MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT)
1290.78	MINIMUM ALLOWABLE GRADE (TOP OF RIGID PAVEMENT)
1290.03	TOP OF STONE
1289.53	TOP OF SC-800 CHAMBER
1287.45	18" TOP MANIFOLD INVERT
1286.97	24" ISOLATOR ROW PLUS CONNECTION INVERT
1286.97	24" BOTTOM MANIFOLD INVERT
1286.78	BOTTOM OF SC-800 CHAMBER
1286.28	UNDERDRAIN INVERT
1286.28	BOTTOM OF STONE

CALVARY CHURCH ADDITION

BENTONVILLE, AR

DATE: 5/20/2025

DRAWN: CHH

CHECKED: RWD

PROJECT #:

4840 TRULAMAN BLVD

HILLIARD, OH 43026

ADS

StormTech

Chamber System

2

SHEET OF

5

ACCEPTABLE FILL MATERIALS: STORMTECH SC-800 CHAMBER SYSTEMS

MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER.	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 15" (375 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145 ¹ A-1, A-2.4, A-3 OR AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 68, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 12" (300 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 6" (150 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL-GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. ROLLER GROSS VEHICLE WEIGHT NOT TO EXCEED 12,000 lbs (53 kN). DYNAMIC FORCE NOT TO EXCEED 20,000 lbs (89 kN).
B EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE ⁵	AASHTO M43 ¹ 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. ^{2,3}

PLEASE NOTE:

- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
- STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
- WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
- ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
- WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".

CALVARY CHURCH ADDITION

BENTONVILLE, AR

DATE: 5/20/2025

DRAWN: CHH

CHECKED: RWD

PROJECT #:

4840 TRULAMAN BLVD

HILLIARD, OH 43026

ADS

StormTech

Chamber System

3

SHEET OF

5

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR

CENTERTON, AR 72719



2407 SE COTTONWOOD ST.
BENTONVILLE, AR 72712
TEL: (479) 275-2209

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NAME PE LICENSE NO.
7/3/2025
DATE
1470 AR
FIRM / BUSINESS NO. STATE

PROJECT NO.: 57802.001

ISSUED: MARCH 2025

DRAWN BY: KES

CHECKED BY: DH

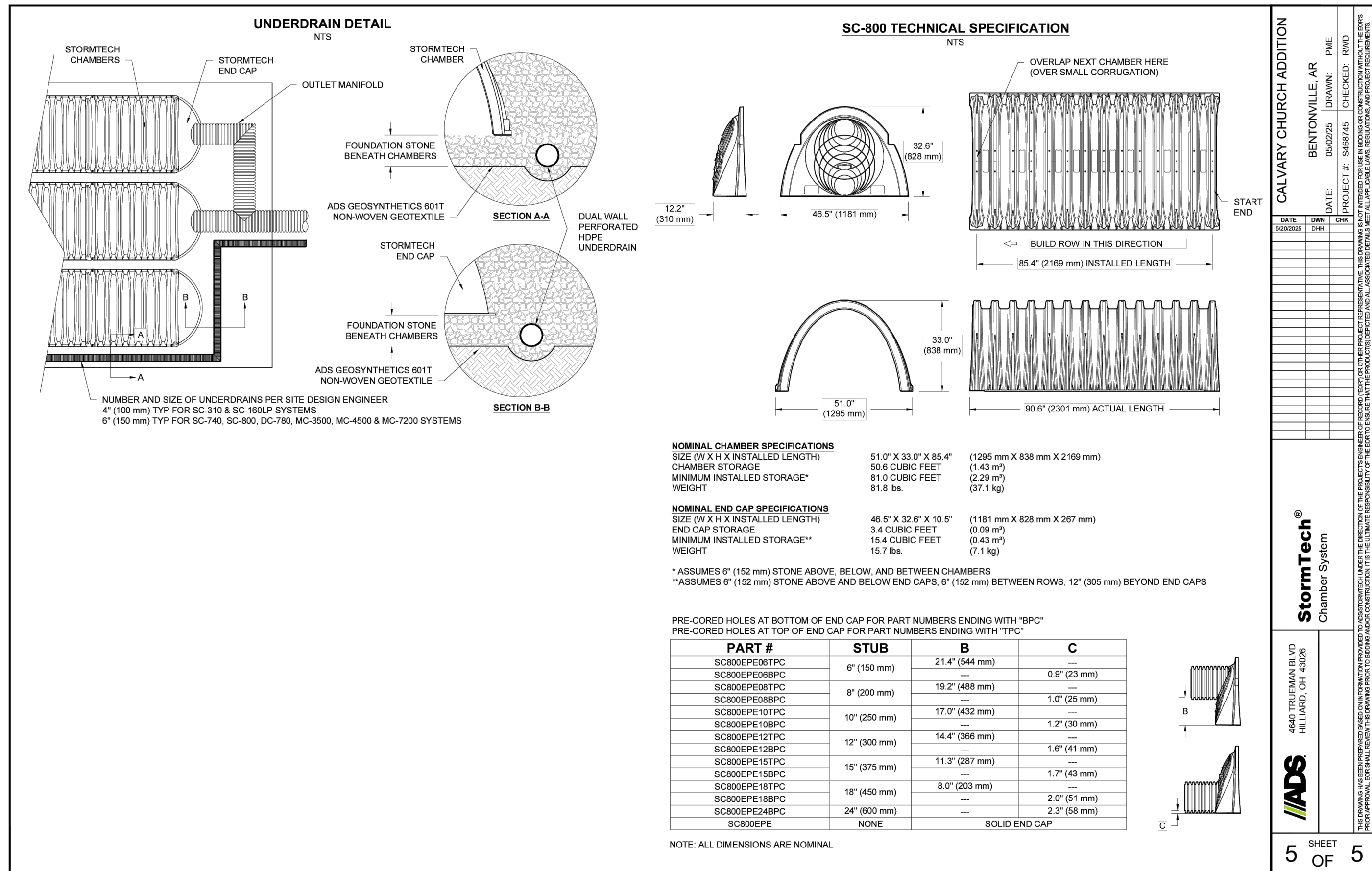
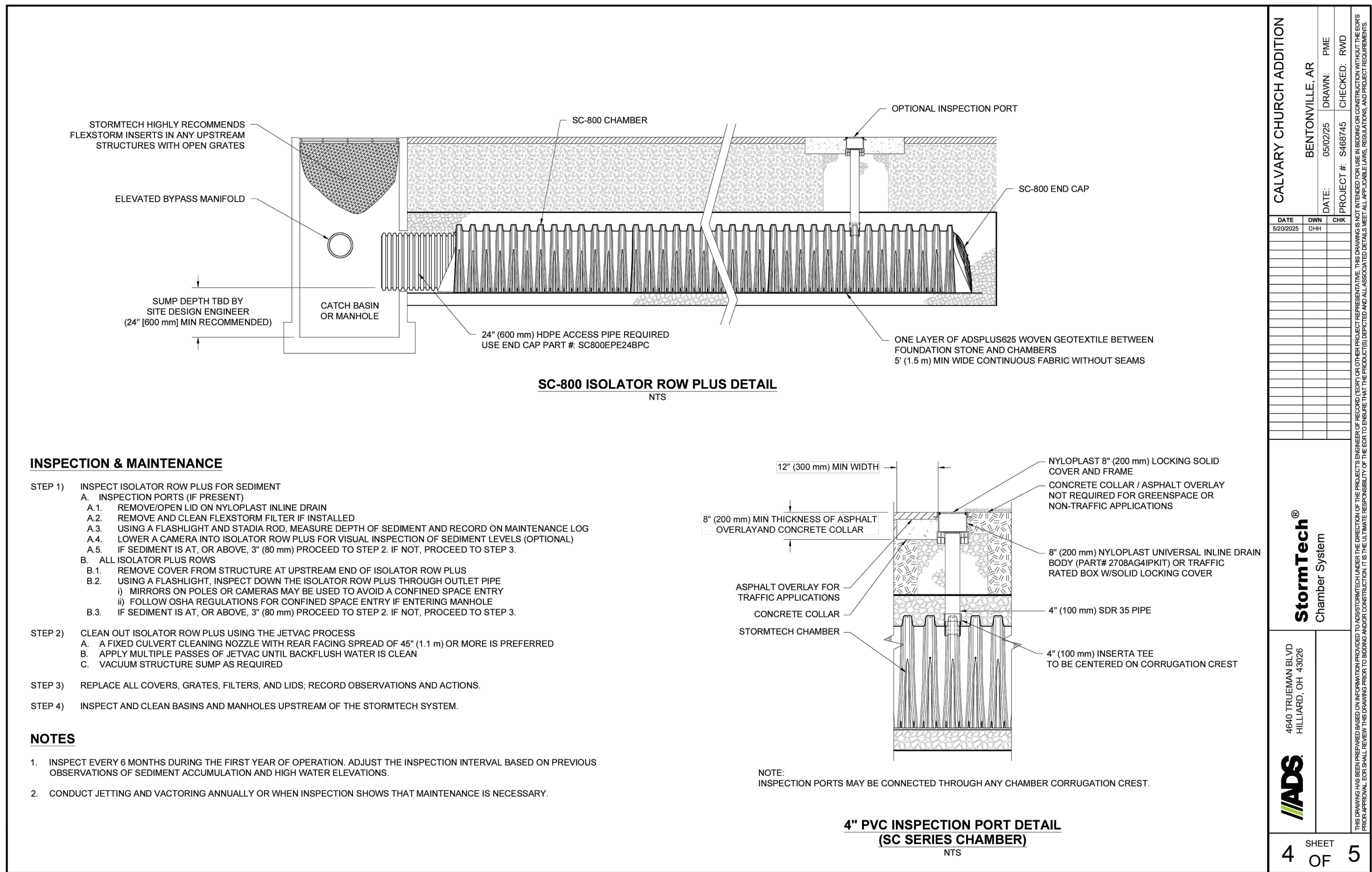
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SHEET TITLE:

ADS DETAILS

LSD25-0027

C704

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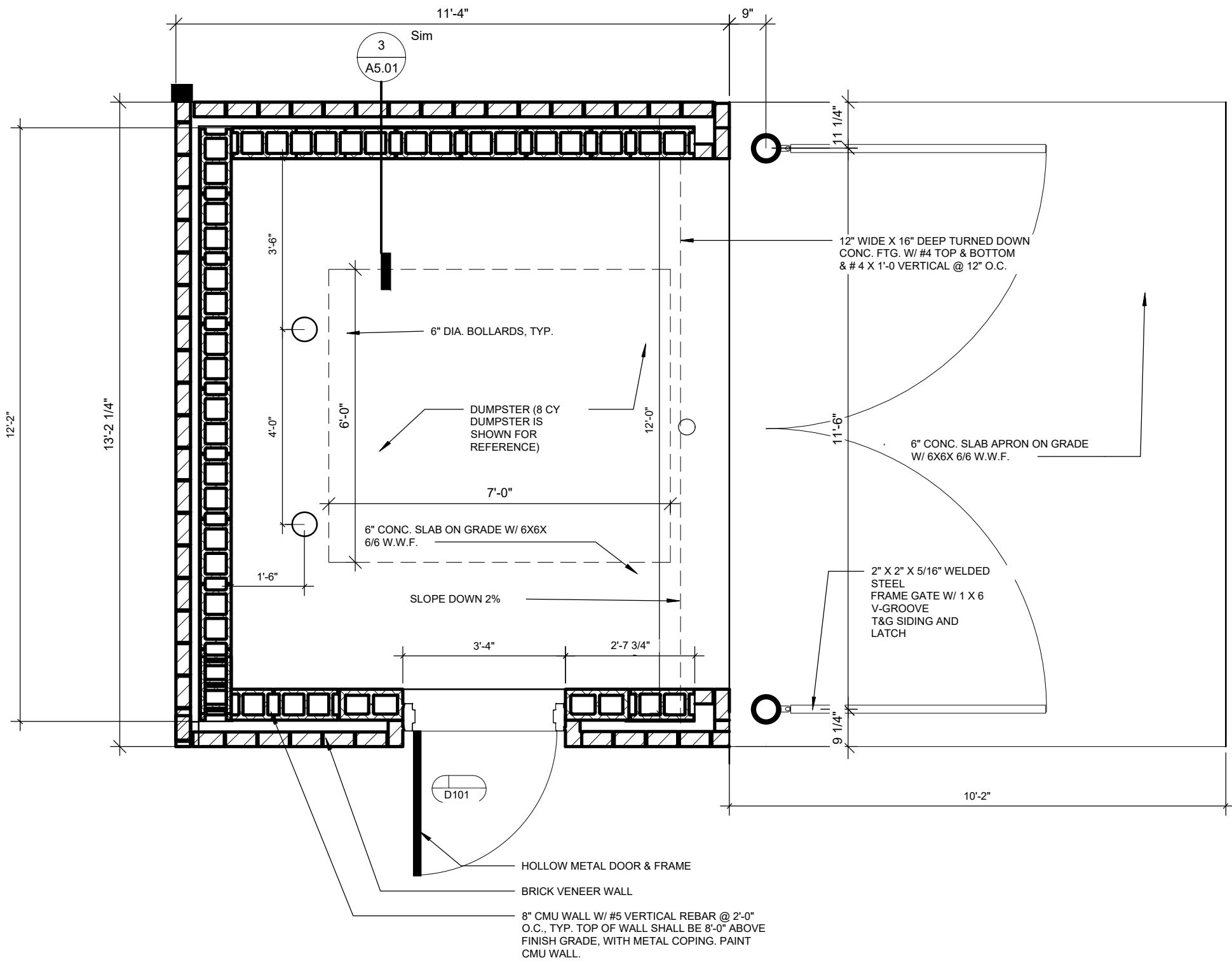
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ADS DETAILS

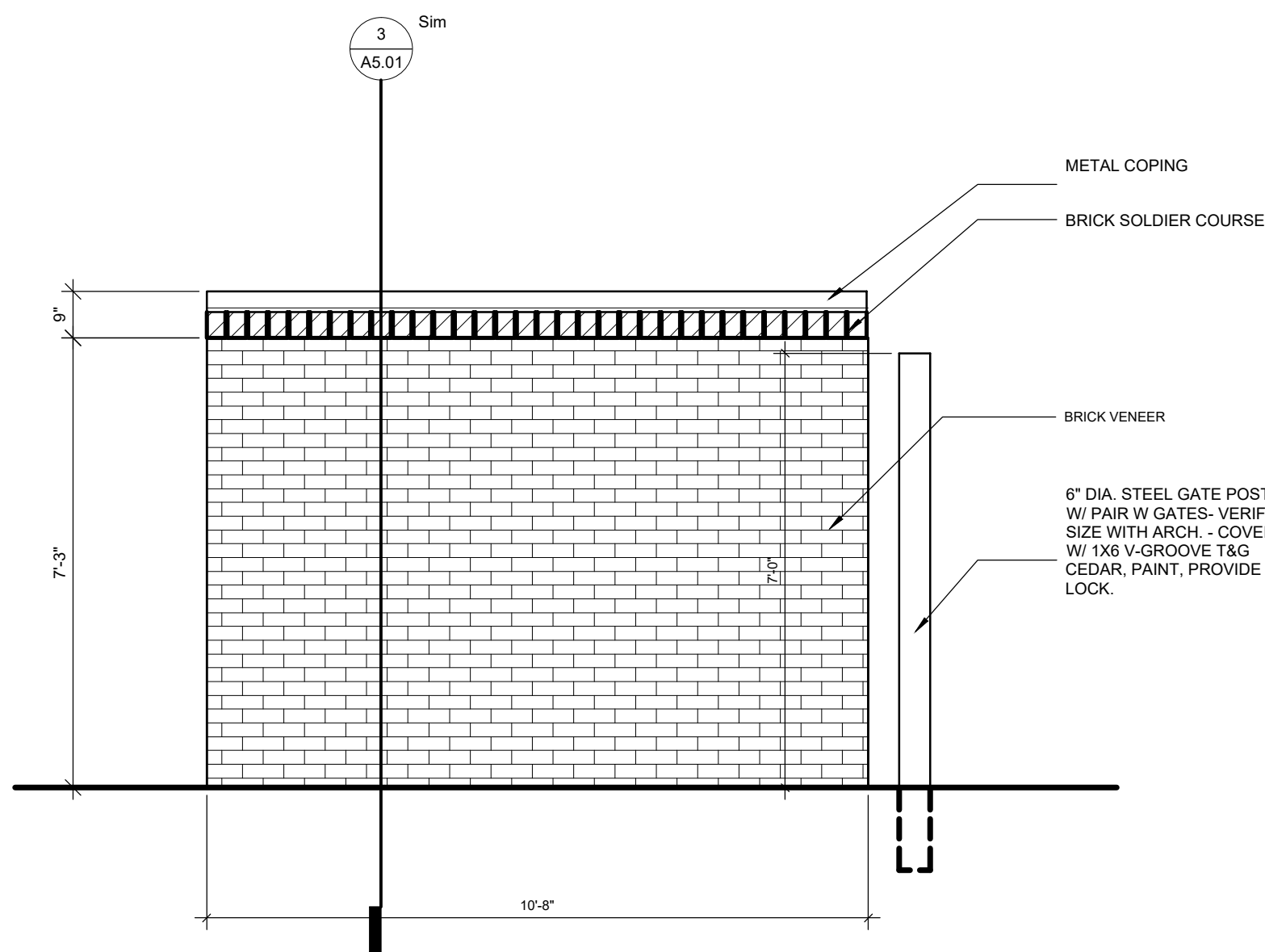
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C705

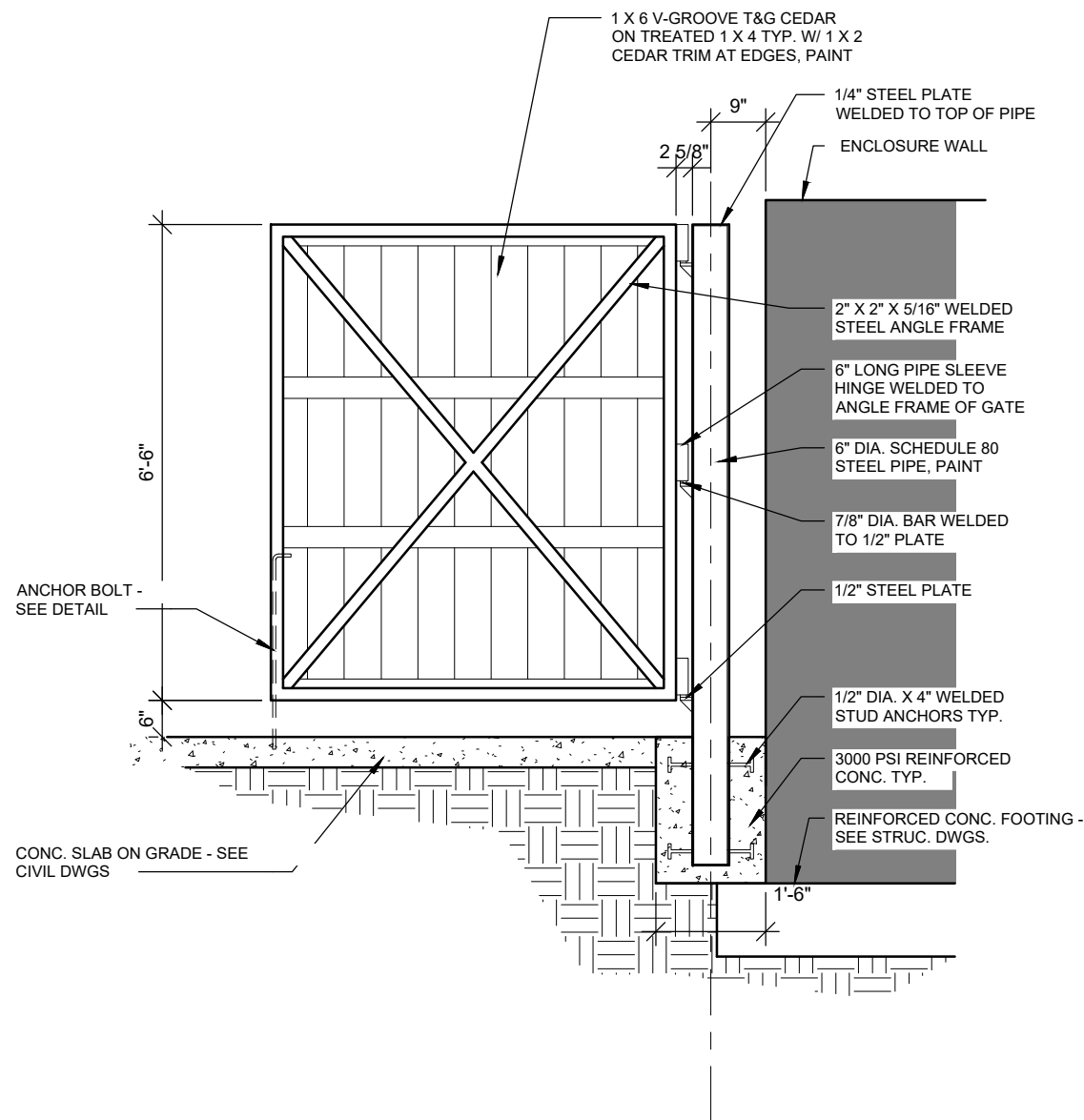
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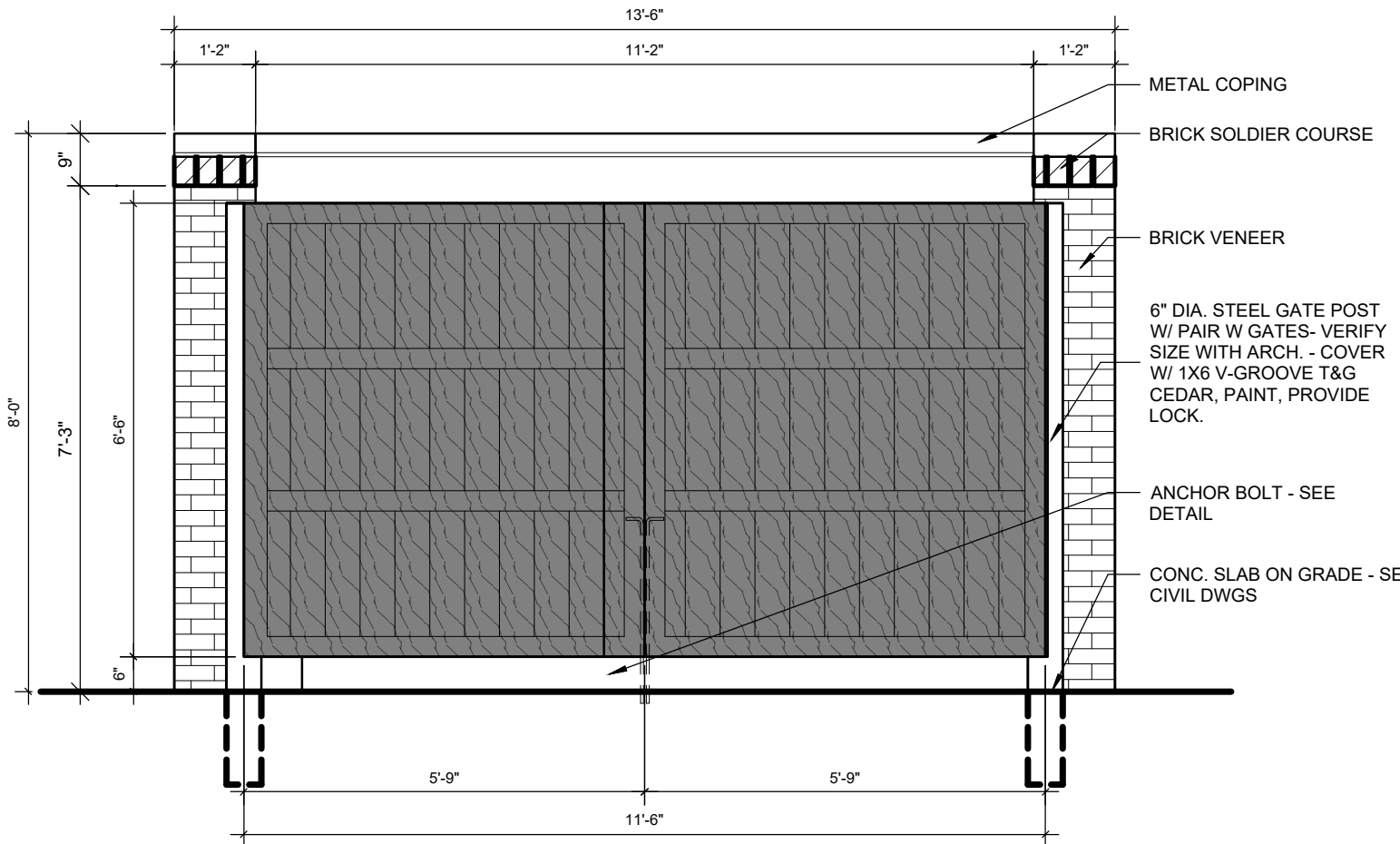
1 DUMPSTER PLAN WITH CMU WALLS



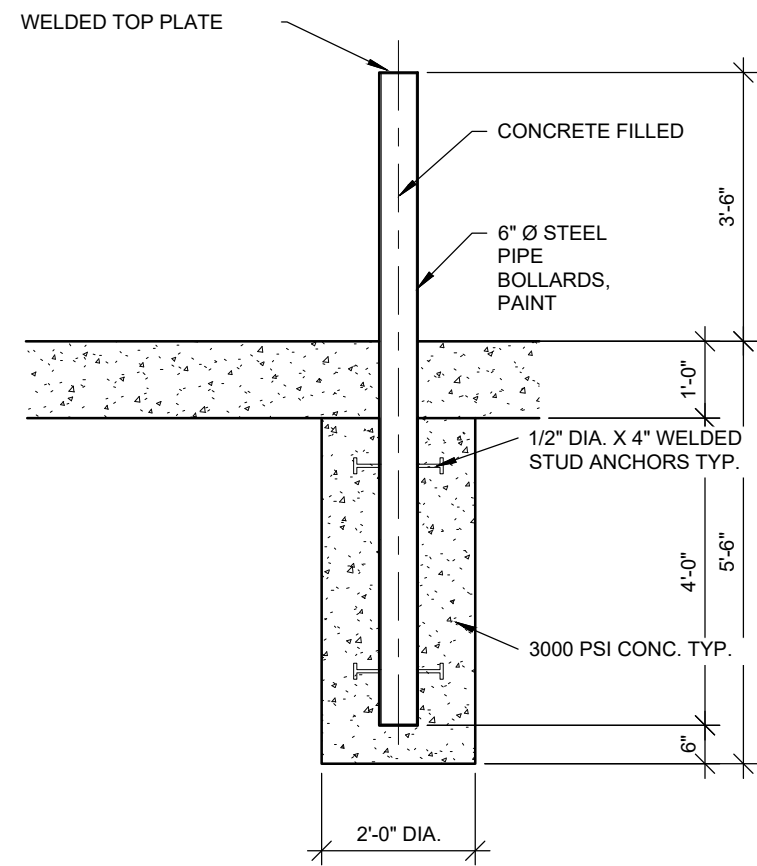
2 DUMPSTER ELEVATION



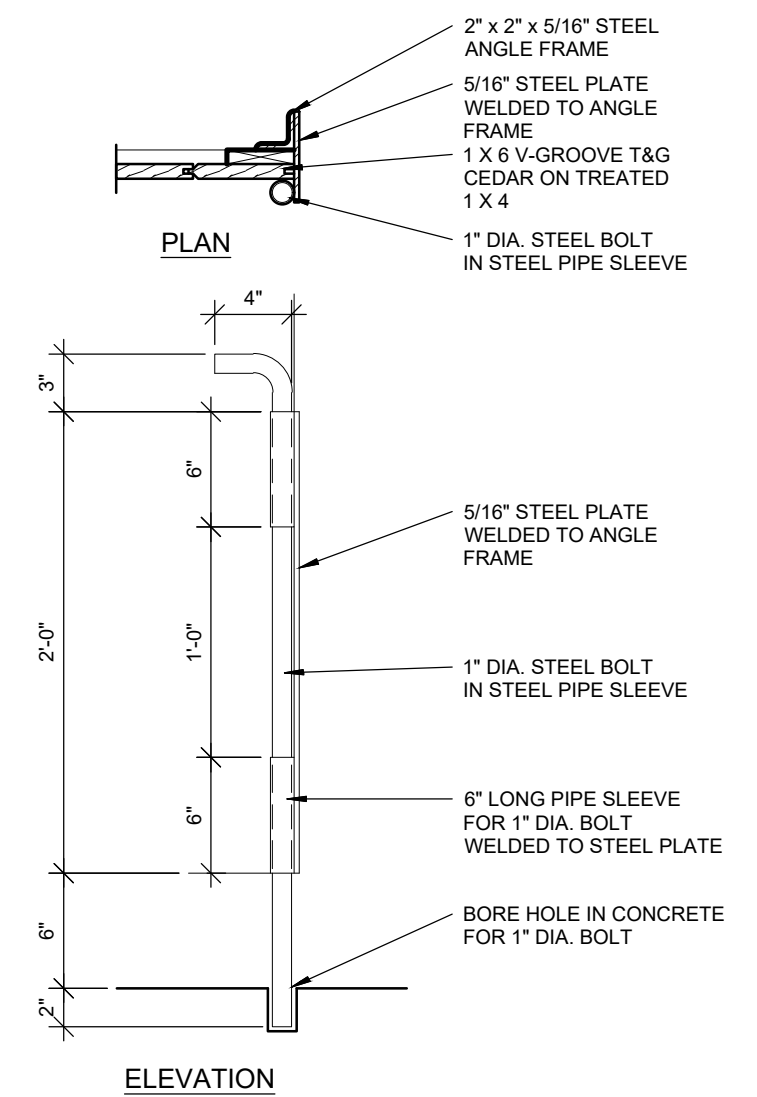
3 DUMPSTER GATE INSIDE ELEVATION



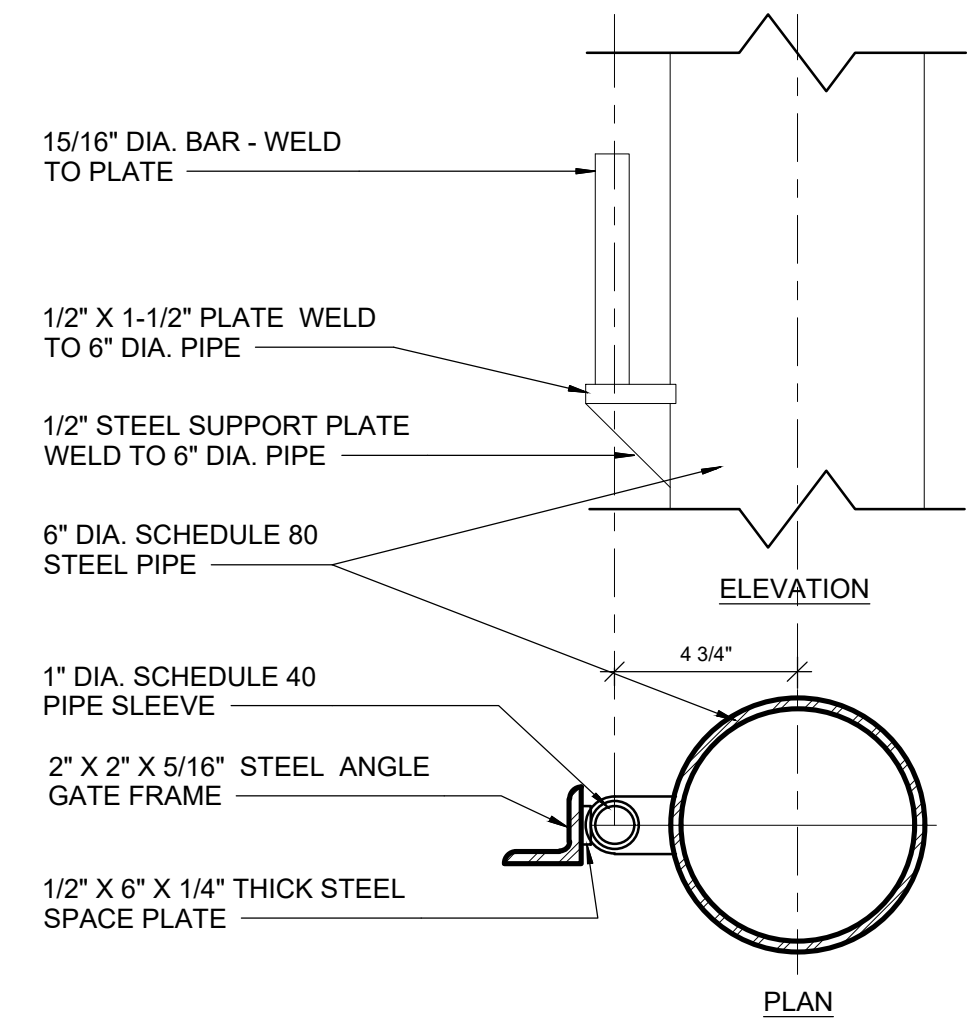
4 DUMPSTER FRONT ELEVATION



5 BOLLARD DETAIL



6 DUMPSTER BOLT DTLS



7 DUMPSTER HINGE DTL.

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR.
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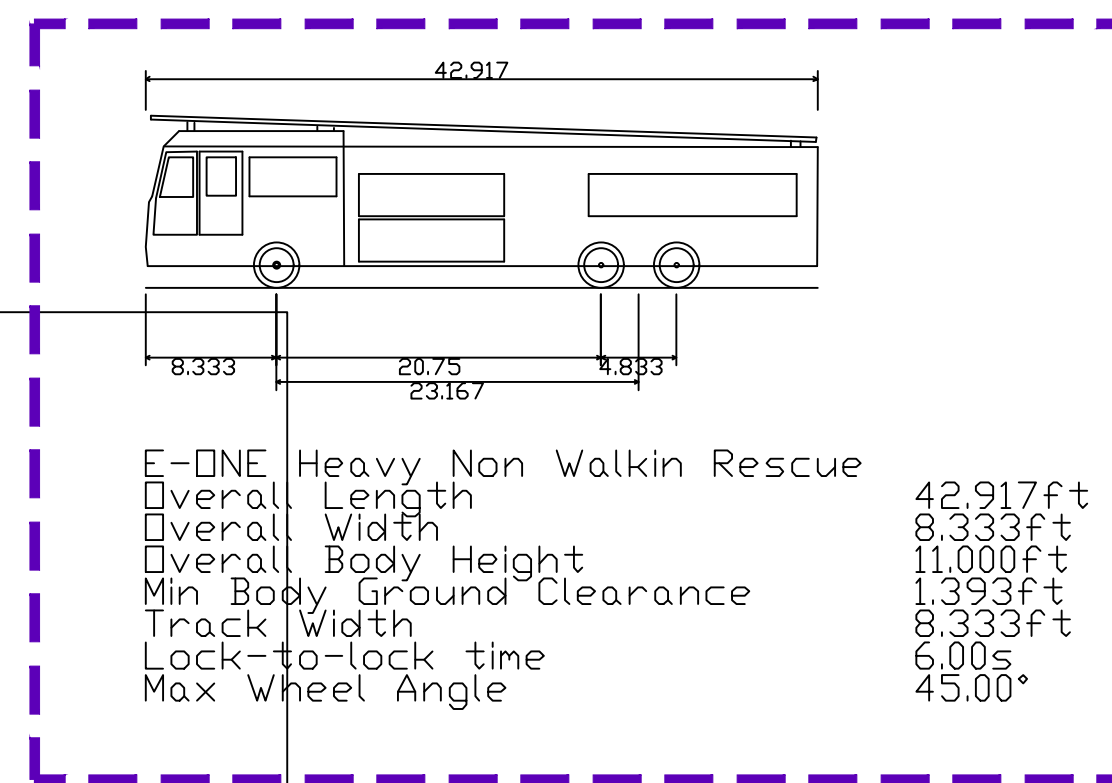
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DUMPSTER
DETAILS
LSD25-0027

C706



TRUCK TURN MODEL

CALVARY CHURCH ADDN.

CENTERTON, AR 72719

CITY OF CENTERTON

200 MUNICIPAL DR
CENTERTON, AR 72719



22407 SE COTTONWOOD ST.
SUITE 1
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CHECKED BY:	DH
SCALE:	NTS
SHEET TITLE:	

FIRE TRUCK
TURN EXHIBIT

LSD25-0027

C707

LANDSCAPE CALCULATIONS:

STREET FRONTAGE BUFFER:

(1 SHADE TREE PER 20 LF OF STREET FRONTAGE.
ORNAMENTAL TREES PROVIDED DUE TO EXISTING
OVERHEAD ELECTRIC ALONG STREET FRONTAGE.)

688.5 LF ÷ 20 LF = 34.43 = 35.
14 EXISTING TREES, 21 TREES REQUIRED
21 TREES PROVIDED

PERIMETER LANDSCAPING:

(1 TREE PER 50 LF OF PERIMETER, 50% MUST
BE SHADE TREES)

(SOUTH) 674 LF ÷ 50 LF = 13.48 = 14.
(EAST) 637 LF ÷ 50 LF = 12.74 = 13.

27 TREES REQUIRED.
27 TREES PROVIDED.
(27 OF WHICH ARE SHADE TREES)
*3 TREES FROM EAST PERIMETER ADDED TO DETENTION
POND ISLAND DUE TO UTILITY CONFLICTS

PLANTING ISLANDS:

(1 SHADE TREE PER EXTERNAL ISLAND)

13 = ISLANDS PROVIDED (x 1 TREE), 1 EXISTING TREE.
12 = TREES REQUIRED.
12 = TREES PROVIDED.

(2 SHADE TREES PER INTERNAL ISLAND)

5 = ISLANDS PROVIDED (x 2 TREE).
10 = TREES REQUIRED.
10 = TREES PROVIDED.

OVERALL SITE AREA CALCULATIONS

TOTAL SITE AREA: 193,362 S.F

TOTAL IMPERVIOUS AREA: 154,963 (80%)

TOTAL GREEN SPACE AREA: 38,399 (20%)

INTERIOR GREEN SPACE CALCULATIONS:

TOTAL PARKING LOT AREA: 98,891

TOTAL INTERIOR GREEN SPACE REQUIRED: 9,889 (10%)

TOTAL INTERIOR GREEN SPACE PROVIDED: 11,280 (11%)

BUILDING AREA PERVIOUS AREA
PARKING AREA IMPERVIOUS AREA
INTERIOR GREEN SPACE

IRON LIEGE LLC
Parcel #: 01-11843-000
Zoning: R-O

NO ITEMS BETWEEN 3' AND 8' IN HEIGHT
MAY BE PLACED IN THE SHADED AREA

DEAN, JOHN M &
DEBORAH D
Parcel #: 01-08610-000
Zoning: R-1

USHER, JILL M ESTATE
Parcel #: 01-06244-000
Zoning: R-1

USHER, JILL M ESTATE
Parcel #: 01-06244-000
Zoning: R-1

STAMPS, PERRY W
Parcel #: 01-06245-000
Zoning: R-1

TALLY, DERRICK G &
MIRCHS, AMANDA
Parcel #: 01-06246-000
Zoning: R-1

DAVIS, MAUDIE G
Parcel #: 01-06247-000
Zoning: R-1

ELLINGSON, SCOTT D
& LELA C
Parcel #: 01-06248-000
Zoning: R-1

2606 E CENTRAL LLC
Parcel #: 01-00283-000
Zoning: PUD

CHEYNE, BRENDA L
Parcel #: 01-05539-000
Zoning: R-ZL

HUY, STEPHANIE A
Parcel #: 01-05538-000
Zoning: R-ZL

DEAN, JOHN M &
DEBORAH D
Parcel #: 01-5561-000
Zoning: R-ZL

STONE REVOCABLE TRUST
ROBERT W II & TERI JILL
Parcel #: 01-05560-000
Zoning: R-ZL

CASEY, SUE
Parcel #: 01-00318-000
Zoning: R-ZL

NO ITEMS BETWEEN 3' AND 8' IN HEIGHT
MAY BE PLACED IN THE SHADED AREA

EAGLESTOP LLC
Parcel #: 01-00272-000
Zoning: A-1

PLANT SCHEDULE

SYMBOL CODE QTY BOTANICAL / COMMON NAME

TREES

	CER LKK	9	CERCIS CANADENSIS 'OKLAHOMA' / OKLAHOMA REDBUD
	LIQ ROT	10	LIQUIDAMBAR STYRACIFLUA 'ROTUNDILOBA' / ROUND-LOBED SWEET GUM
	LIR TUL	11	LIRIODENDRON TULIPIFERA / TULIP POPLAR
	PRU YED	12	PRUNUS X YEDOENSIS / YOSHINO CHERRY
	QUE TEX	13	QUERCUS TEXANA / NUTTALL OAK
	ULM ALL	16	ULMUS PARVIFOLIA 'ALLEE' / ALLEE® LACEBARK ELM

LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, AND RELATED ITEMS REQUIRED FOR THE COMPLETE INSTALLATION OF LANDSCAPE.
2. ALL PLANT MATERIAL SHALL BE NURSERY GROWN. PLANT MATERIAL SIZES AND GRADING SHALL COMPLY WITH THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN NURSERY AND LANDSCAPE ASSOCIATION.
3. ALL PLANT MATERIAL SHALL BE HEALTHY AND FREE FROM ALL VISIBLE SIGNS OF DISEASE OR PEST INFESTATION.
4. CONTRACTOR SHALL ASCERTAIN LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. PRIOR TO COMMENCING ANY WORK, CONTACT 1-800-482-8998, OR BY DIALING 811.
5. NO CHANGES TO APPROVED PLANT SCHEDULE WILL BE ALLOWED WITHOUT THE APPROVAL OF THE OWNER.
6. ALL TREES SHALL BE INSTALLED, MULCHED, GUYED AND STAKED PER THE DETAILS.
7. THE CONTRACTOR SHALL PROVIDE A ONE YEAR MINIMUM WARRANTY FOR ALL PLANT MATERIALS AND INSTALLATION FROM THE DATE OF ACCEPTANCE.
8. THE CONTRACTOR SHALL SPOIL AND EXCESS TOPSOIL LOCATED ON THE SITE THAT IS NOT REQUIRED TO PERFORM LANDSCAPE OPERATIONS. IF SUFFICIENT TOPSOIL IS NOT PRESENT ON SITE, THE CONTRACTOR SHALL IMPORT TO THE SITE IN ORDER TO COMPLETE THE LANDSCAPE OPERATIONS. THE CONTRACTOR SHALL PERFORM A SOIL TEST ON THE EXISTING AND IMPORTED TOPSOIL AND APPLY LIME AND FERTILIZER AS RECOMMENDED BY THE TESTING AGENCY.
9. ALL DISTURBED AREAS, NOT OTHERWISE PLANTED, SHALL BE SODDED OR SEEDDED.
10. TREES SHALL NOT BE TOPPED AT ANY TIME AND PROPER TREE PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF ANSI A300 "STANDARDS FOR ALL TREE CARE" SHALL BE UTILIZED FOR MAINTENANCE PURPOSES. (SEC. 1400.05.B)
11. HEALTHY TREES SHALL NOT BE REMOVED AT ANY TIME AND PROPER TREE PRUNING TECHNIQUES AS ESTABLISHED BY THE LATEST EDITION OF ANSI A300 "STANDARDS OF TREE CARE" SHALL BE UTILIZED FOR MAINTENANCE PURPOSES. (SEC. 1400.05.B)
12. LIVING MATERIALS, SUCH AS LAWN, GRASS OR HERBACEOUS GROUND COVERS LIKE JUNIPER OR LIRIOPE, ETC., SHALL COVER MINIMUM OF EIGHTY PERCENT (80%) OF THE PLANTING ISLANDS. ONE HUNDRED PERCENT (100%) OF LIVING MATERIAL IS STRONGLY ENCOURAGED. (SEC. 1400.8.G)
13. ALL TREES PLANTED IN THE PUBLIC RIGHT-OF-WAY SHALL BE 4" CALIBER AND THE LOWEST LIMB SHALL BE 96" OR HIGHER FROM FINAL GRADE AT THE TIME OF PLANTING.
14. ALL PROPOSED TREES SHALL BE A MINIMUM OF 5' FROM ALL PUBLIC UTILITIES.
15. ONCE INSTALLED, LANDSCAPING SHALL BE MAINTAINED IN HEALTHY LIVING CONDITION AND ALL PLANT MATERIAL THAT DIES SHALL BE REPLACED.
16. IN ANY EVENT WHERE POTENTIAL UTILITY CONFLICTS WITH LANDSCAPING, UTILITY LOCATIONS SHALL BE FIELD VERIFIED.
17. WILL PROVIDE INTERIOR PARKING GREENSPACE REQUIREMENT 8% OF IMPERVIOUS MATERIAL, AND AT LEAST 80% WILL BE LIVING MATERIAL FOR PARKING ISLANDS.

KEY:

- 1 NEVER CUT CENTRAL LEADER OF TREE.
- 2 SET TOP OF ROOT BALL 2" ABOVE FINISH GRADE.
- 3 PROVIDE 3" MIN. SHREDDED HARDWOOD MULCH FOR ENTIRE BASIN. FULL MULCH BACK MIN. 2" FROM BASE OF TRUNK.
- 4 FOR BALL & BURLAP: REMOVE WIRE / TWINE FROM AROUND BURLAP. FOLD TOP THIRD OF BURLAP DOWN OR CUT / REMOVE PRIOR TO BACKFILL.
- 5 BUILD 3' HT. SAUCER RING AROUND PLANTING PIT WITH TOPSOIL.
- 6 FINISHED GRADE.
- 7 AGRIFORM TABLETS AS PER MANUFACTURER'S INSTRUCTIONS.
- 8 PREPARED SOIL MIX - HOMOGENEOUS MIXTURE OF 3:1:1 RATIO TOPSOIL TO PEATMOSS AND/OR OTHER APPROVED SOIL AMENDMENTS. WATER AND TAMP TO REMOVE SIDE AND BOTTOM AIR POCKETS 6" MIN.
- 9 UNCOMPACTED NATIVE SOIL / UNDISTURBED SUBGRADE.
- 10 MIN. (3) ARBOR STAKES. INSTALL PER MANUFACTURE'S SPECIFICATIONS.

NOTES:

1. FOR BALL & BURLAP: REMOVE WIRE / TWINE FROM AROUND BURLAP. FOLD TOP THIRD DOWN OR CUT / REMOVE PRIOR TO BACKFILL.
2. 1"Ø CLEARANCE ALL SIDES FROM ROOTBALL FOR PLANTING MEDIUM.
3. PROVIDE FERTILOME ROOT STIMULATOR IN EACH TREE PIT.
4. MINIMUM STAKE QUANTITY IS (3); THEN ADD (1) STAKE PER CALIPER INCH GREATER THAN 3".
5. STAKES SHALL BE DRIVEN THROUGH THE ROOT BALL AS SHOWN.
6. ENSURE TRUNK BASE (ROOT FLARE) IS FREE FROM STAKING AND OTHER MATERIALS.
7. ABOVE GROUND GUYING AND/OR METALLIC STAKING SYSTEMS NOT ALLOWED AND SHALL BE REJECTED.
8. INSTALL STAKING SYSTEM AS PER MANUFACTURER'S INSTRUCTIONS.

1 TYPICAL TREE PLANTING WITH ARBOR STAKES DETAIL

3/8" = 1'-0"

CAL

2" CAL.

2.5" CAL.

2.5" CAL.

2" CAL.

2.5" CAL.

2.5" CAL.

CALVARY CHURCH ADDN.
BENTONVILLE, AR

half
2407 SE COTTONWOOD ST.
SUITE 200
BENTONVILLE, AR 72712
TEL: (479) 275-2209

PRELIMINARY

FOR INTERIM REVIEW ONLY

THESE DOCUMENTS ARE FOR INTERIM REVIEW AND NOT INTENDED FOR REGULATORY APPROVAL, PERMIT, BIDDING OR CONSTRUCTION PURPOSES. THEY WERE PREPARED BY OR UNDER THE SUPERVISION OF:

NAME LICENSE NO.
NAME XX LICENSE NO.
DATE 7/3/2025
DATE XX
FIRM / BUSINESS NO. XX STATE

PROJECT NO.: 57802.001

ISSUED: 05-06-2025

DRAWN BY: RJC

CHECKED BY: DD

SCALE: 1" = 30"

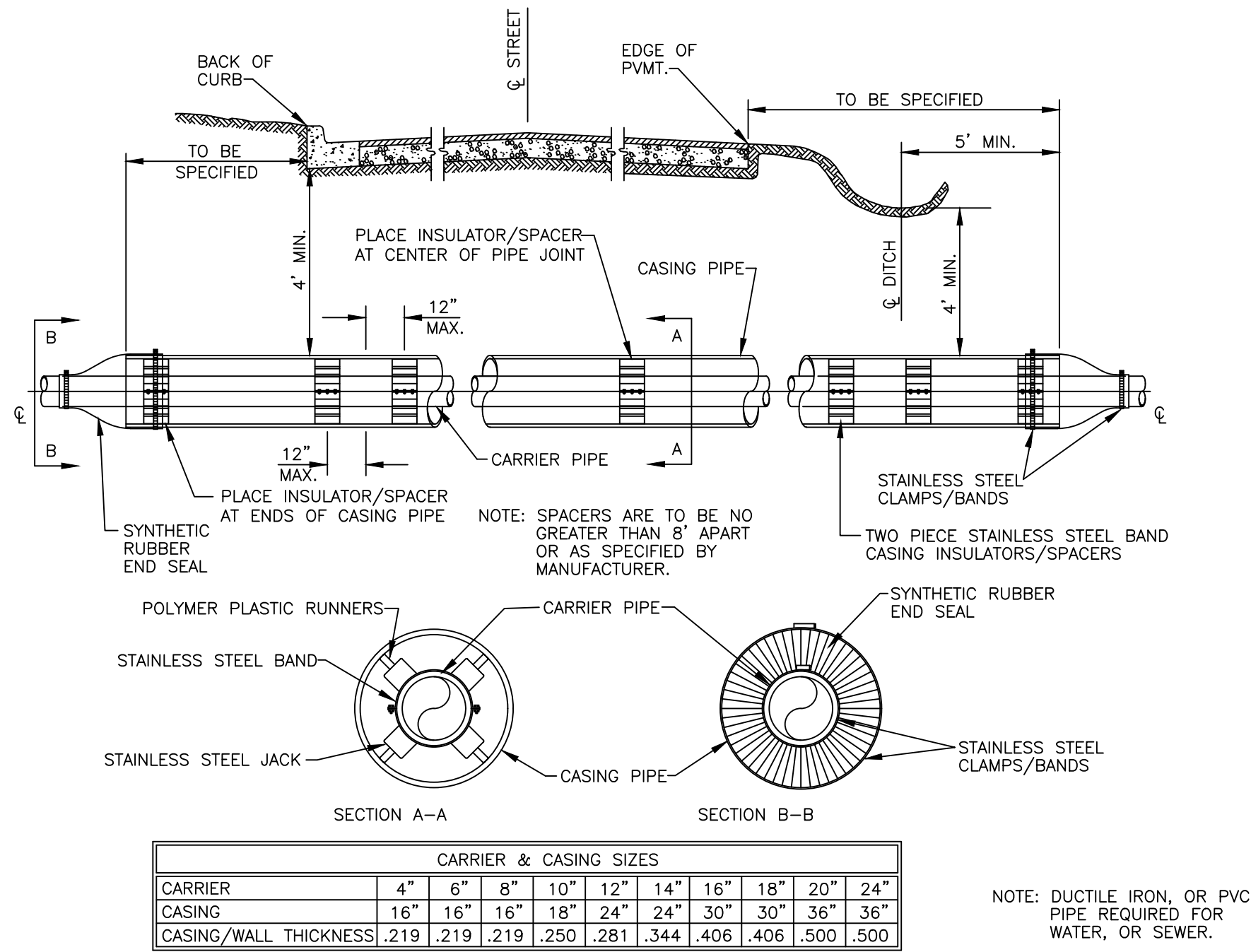
SHEET TITLE:

LANDSCAPE
PLAN

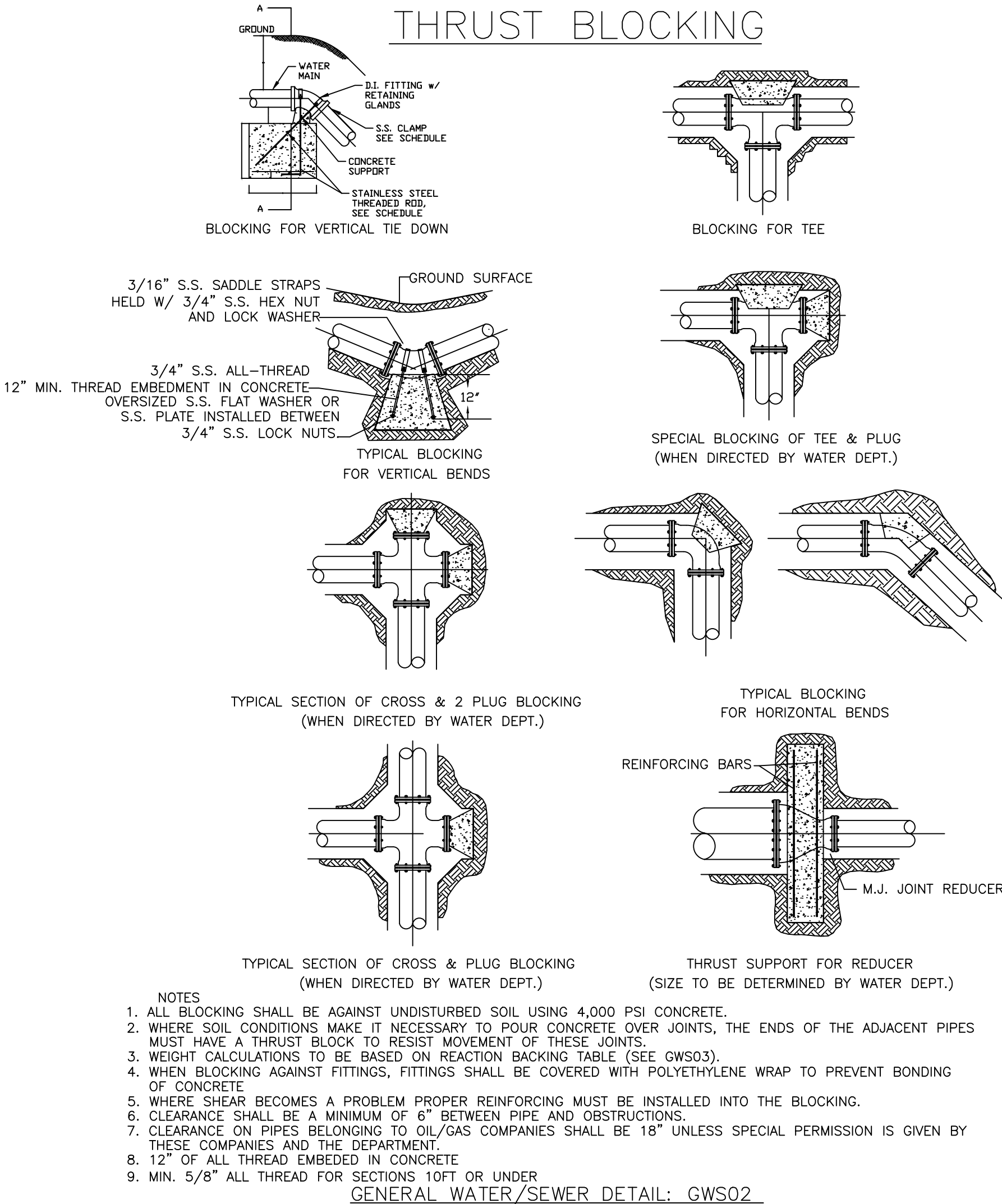
LSD25-0027

L101

ENCASEMENT DETAIL



THRUST BLOCKING



REACTION BACKING TABLE

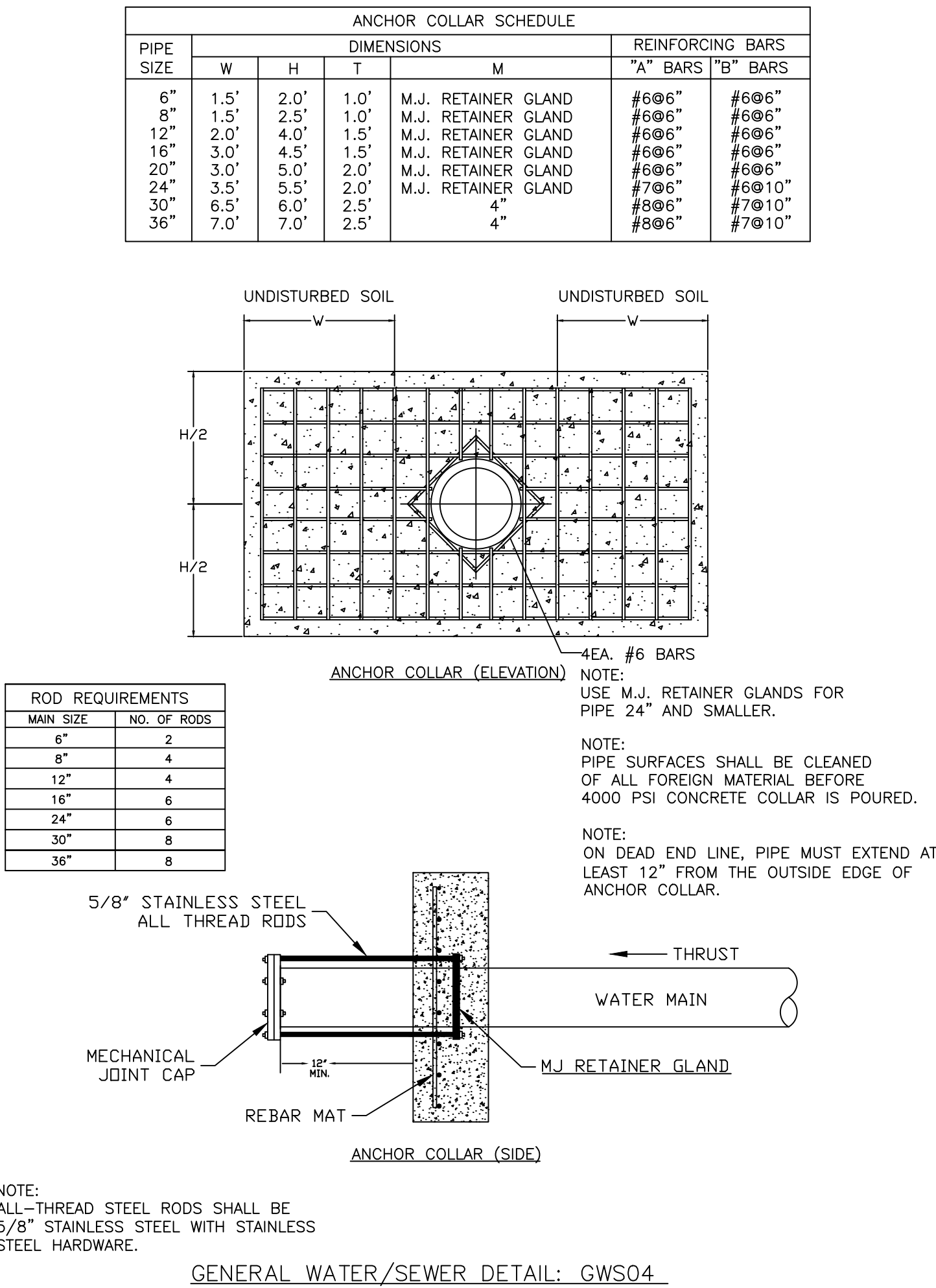
BLOCKING SCHEDULE						
PIPE SIZE		BENDS			ROD DIA.	
		45°	22 1/2°	11 1/4°		
8"	VOLUME REQ'D (CU. FT.)	98.5	50.2	25.2	3/4 IN.	
	A (FT.)	5.00'	4.00'	3.00'		
	B (FT.)	4.00'	3.20'	2.80'		
	C (FT.)	5.00'	4.00'	3.00'		
	MIN. CLAMP (2 EA.)	3/8 IN. x 2 IN.			3/4 IN.	
	12"	VOLUME REQ'D (CU. FT.)	209.5	106.8		53.7
A (FT.)		6.00'	5.00'	4.00'		
B (FT.)		6.00'	4.25'	3.50'		
C (FT.)		6.00'	5.00'	4.00'		
MIN. CLAMP (2 EA.)		1/2 IN. x 2 IN.				1 IN.
18"	VOLUME REQ'D (CU. FT.)	457.2	233.1	117.1		
	A (FT.)	8.00'	6.50'	5.00'		
	B (FT.)	7.25'	5.50'	4.75'		
	C (FT.)	8.00'	6.50'	5.00'		
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.			1 1/4 IN.	
24"	VOLUME REQ'D (CU. FT.)	800.3	408.0	205.0		
	A (FT.)	9.50'	7.50'	6.00'		
	B (FT.)	9.00'	7.25'	5.75'		
	C (FT.)	9.50'	7.50'	6.00'		
	MIN. CLAMP (2 EA.)	5/8 IN. x 3 IN.				
VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THRUST ON THE RESPECTIVE BENDS UNDER AN INTERNAL PRESSURE OF 250 PSI, 50 PSI SURGE AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.						

- NOTES:
1. ALL FITTINGS SHALL BE MECHANICAL JOINTS.
 2. DO NOT COVER BELLS OR FLANGES WITH CONCRETE.
 3. WRAP ALL FITTINGS WITH POLY WRAP.
 4. BACK ALL TEES ACCORDING TO SIZE OF BRANCH.
 5. BACKING FUTURE LINE EXTENSIONS SHALL BE SUCH THAT LATER REMOVAL IS POSSIBLE.
 6. ALL BENDS WHERE FITTINGS ARE USED, BOTH HORIZONTAL OR VERTICAL, SHALL BE BACKED WITH CONCRETE.
 7. REACTION BACKING TABLE IS BASED ON 150 PSI AND SOIL BEARING PRESSURE OF 2,000 LB/SQ. FT. ADDITIONAL BACKING MAY BE REQUIRED IN SOME AREAS AS REQUIRED BY CITY WATER DEPARTMENT.

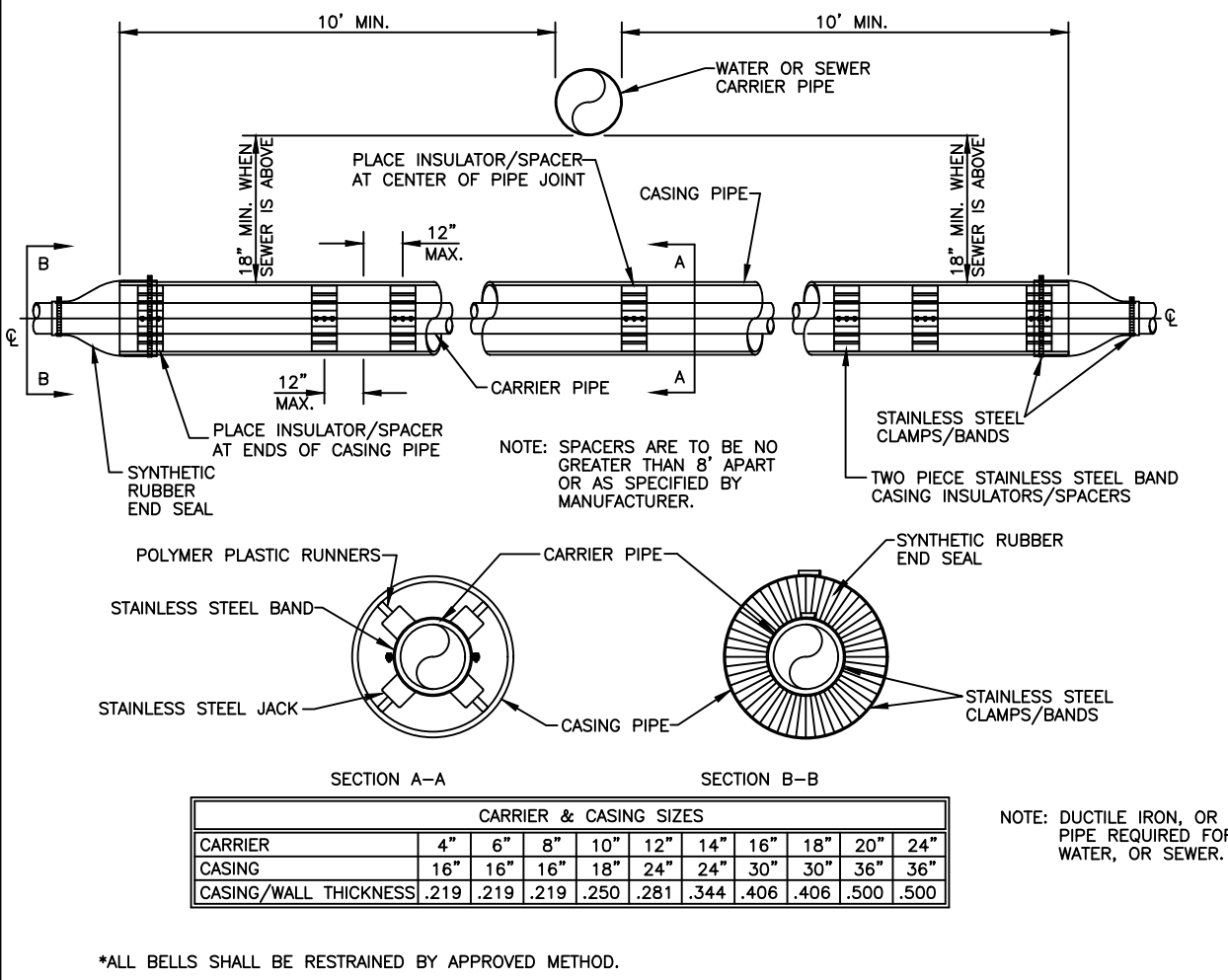
GENERAL WATER/SEWER DETAIL: GWS01

GENERAL WATER/SEWER DETAIL: GWS03

ANCHOR COLLAR SPECIFICATIONS

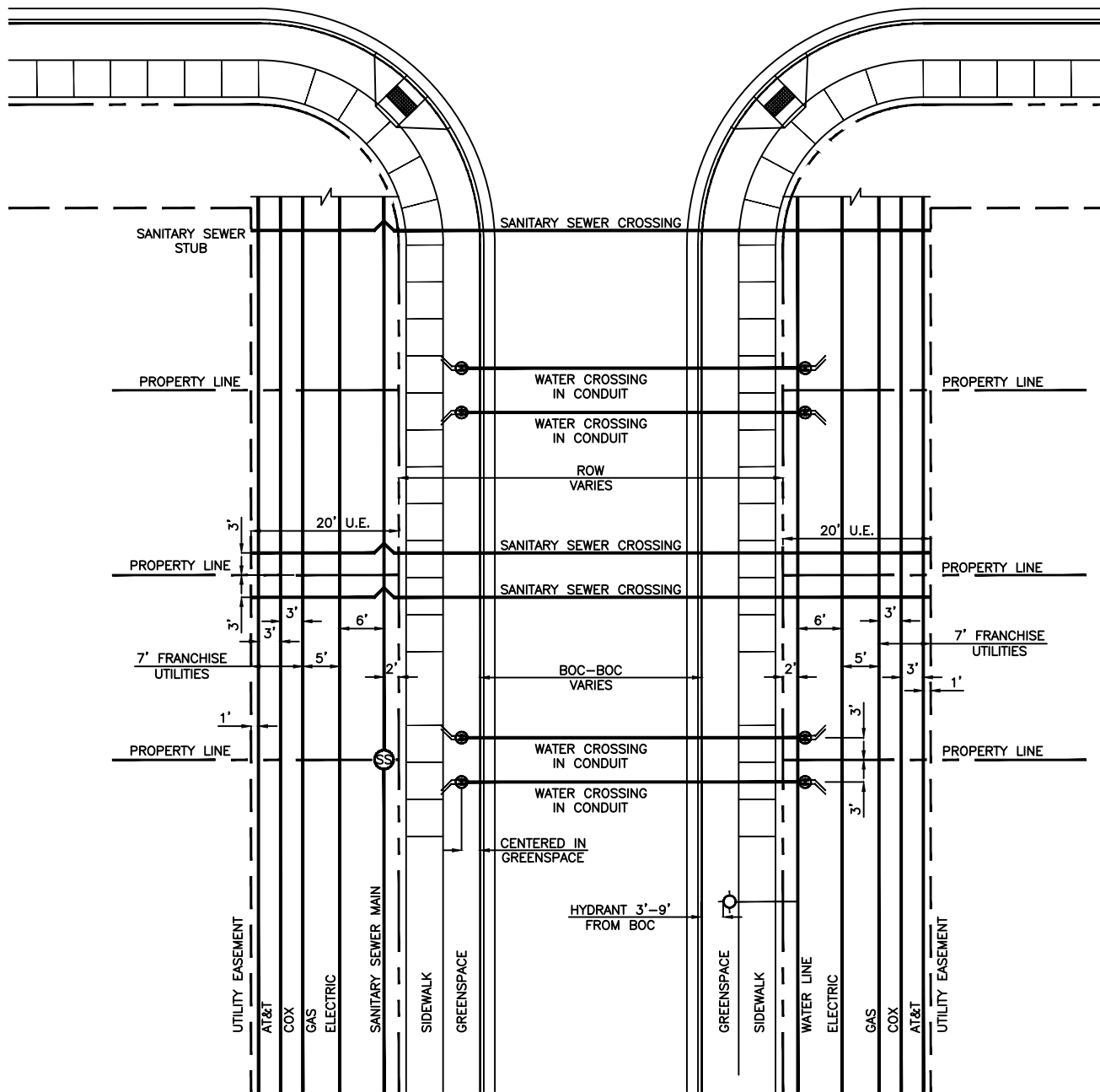


ENCASEMENT CROSSING DETAIL



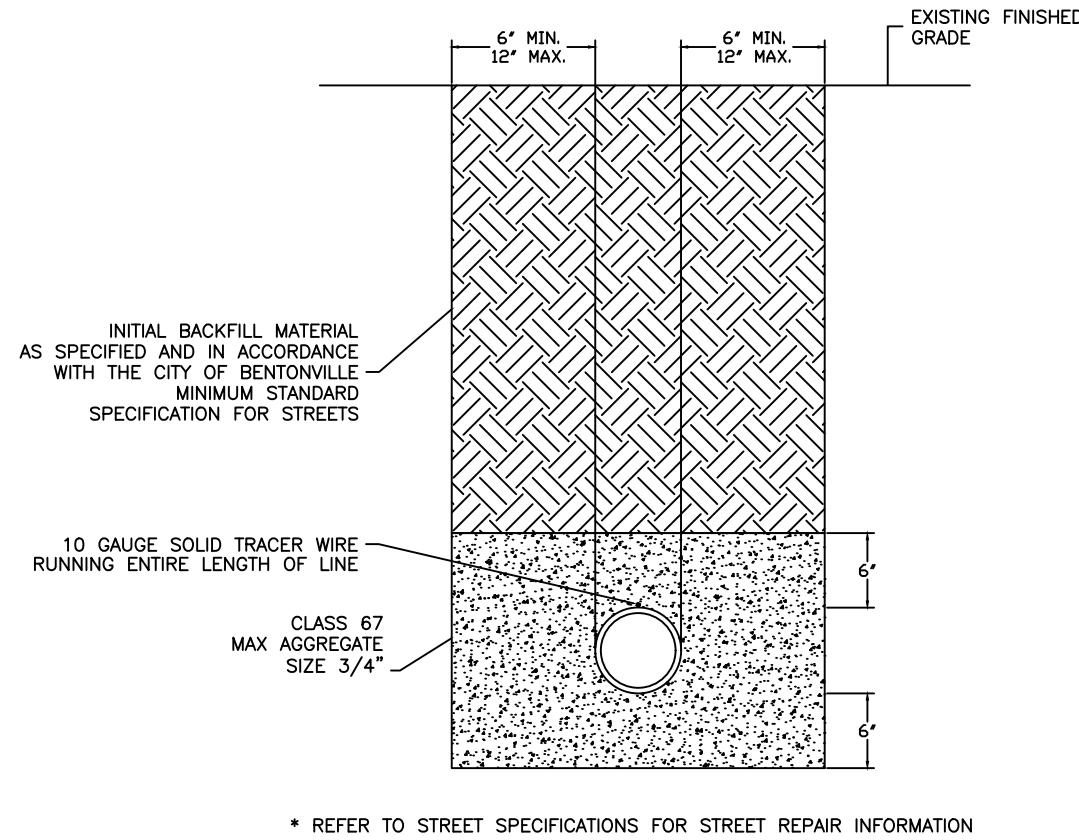
GENERAL WATER/SEWER DETAIL: GWS05

SUBDIVISION UTILITY PLACEMENT

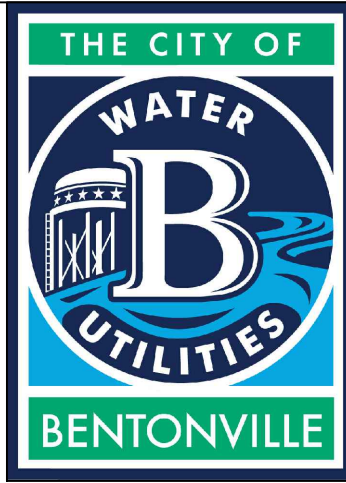


GENERAL WATER/SEWER DETAIL: GWS06

TYPICAL BEDDING DETAIL

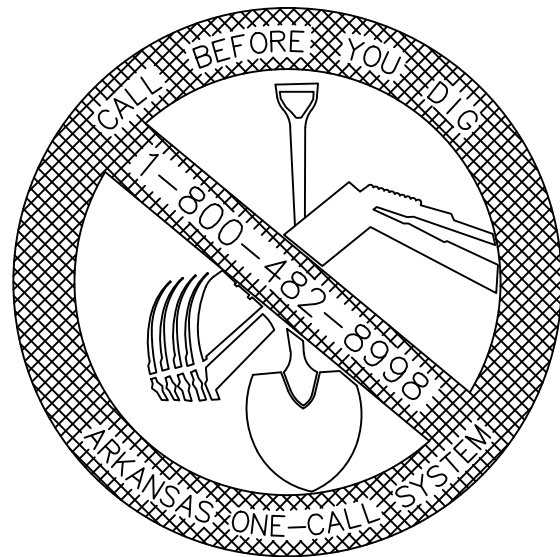


GENERAL WATER/SEWER DETAIL: GWS07



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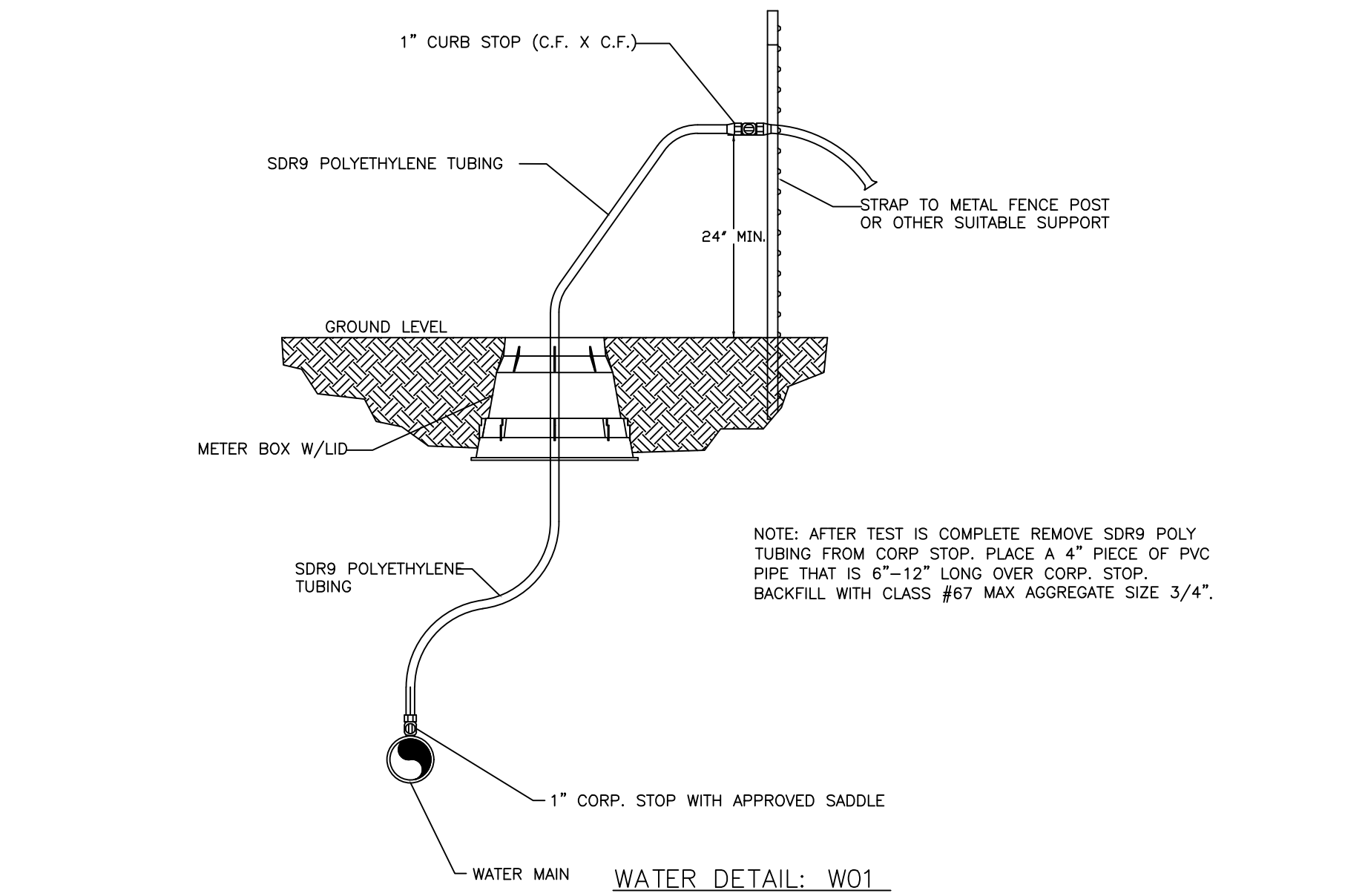
WATER/SEWER
DETAILS



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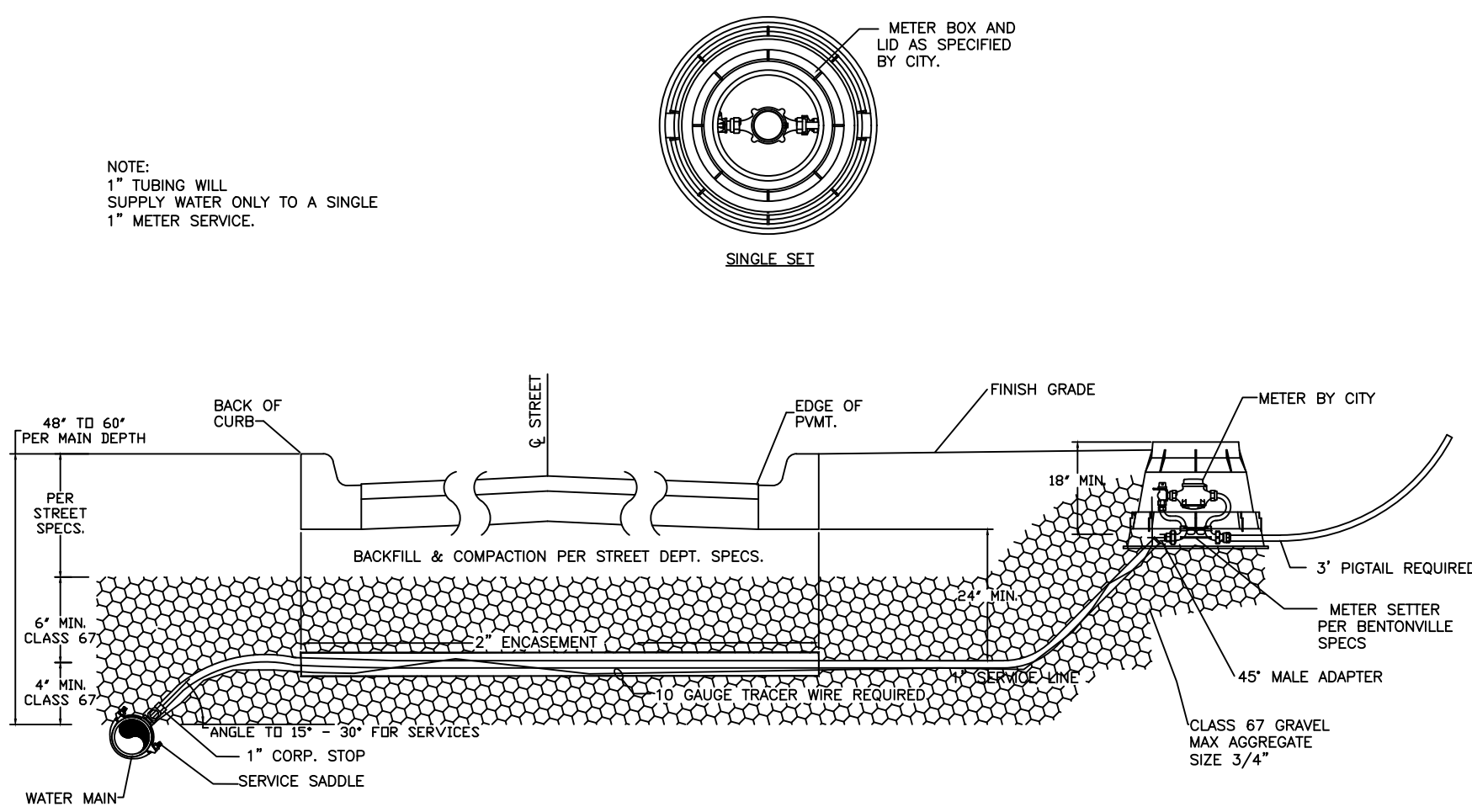
DRAWN BY:	JS	DATE:	08/27/2024
APPROVED BY:	AW	DATE:	08/27/2024
SHEET NUMBER:	1	OF	1

TEMPORARY 1" BLOW OFF ASSEMBLY
SAMPLE POINTS



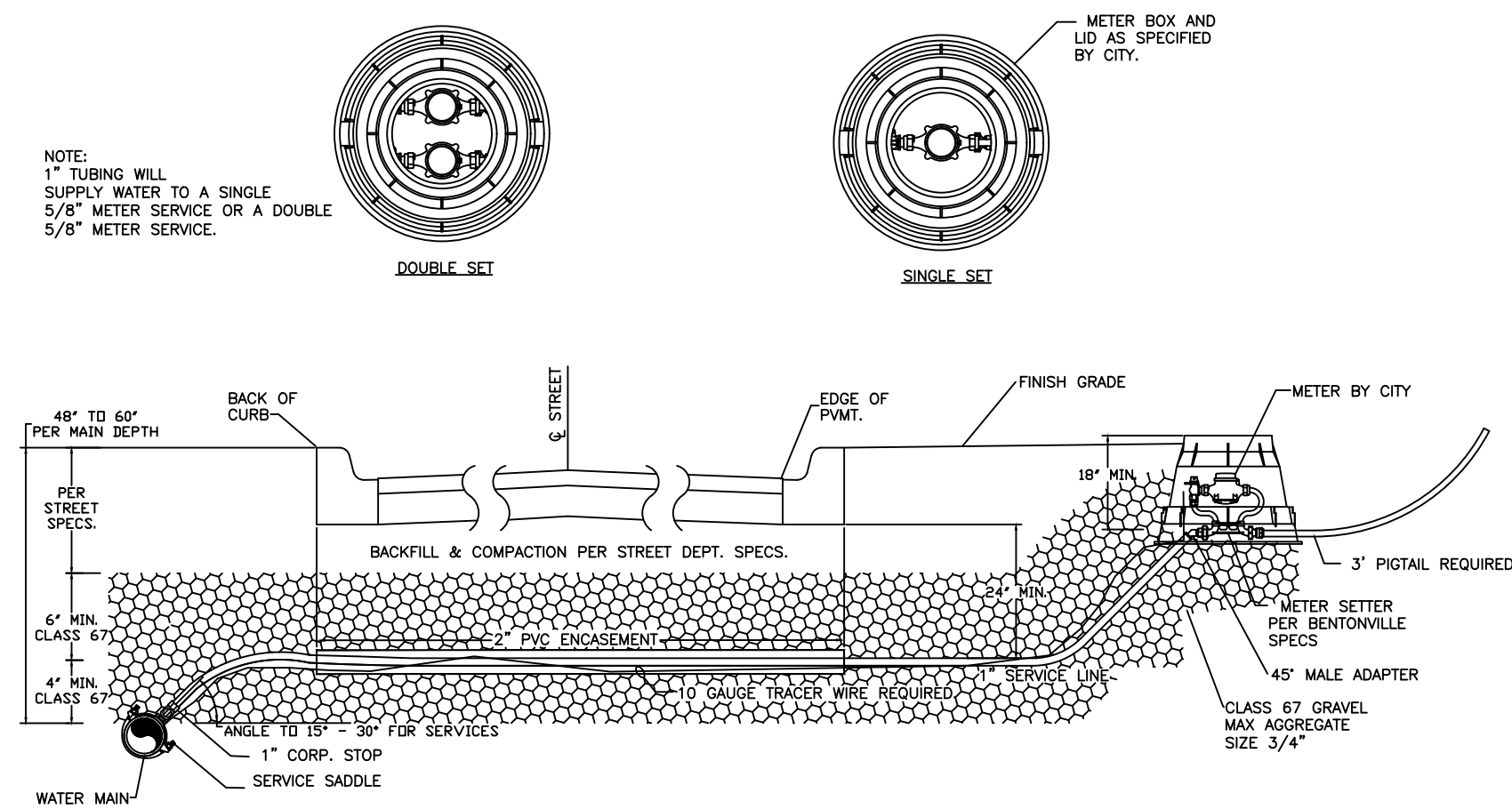
WATER DETAIL: W01

WATER SERVICE DETAIL 1"



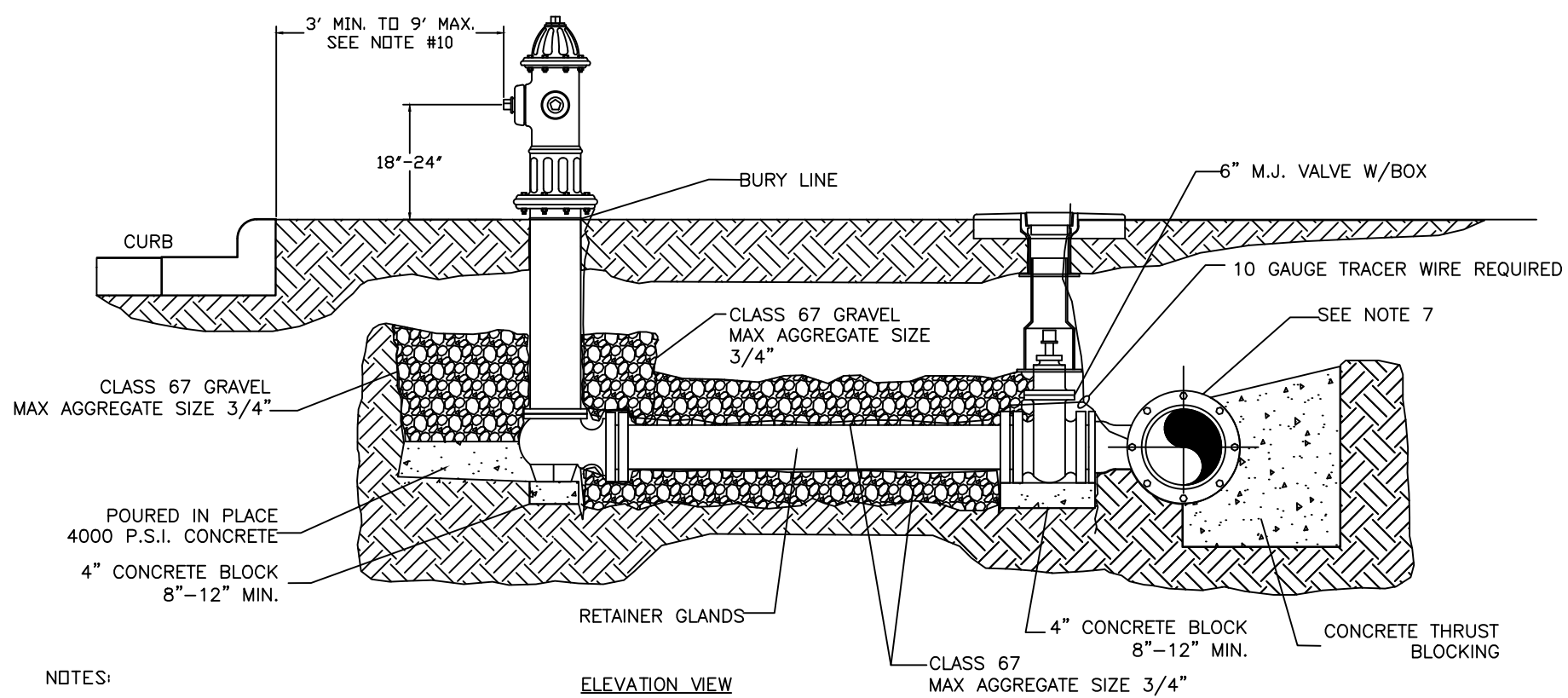
WATER DETAIL: W02

WATER SERVICE DETAIL 5/8"



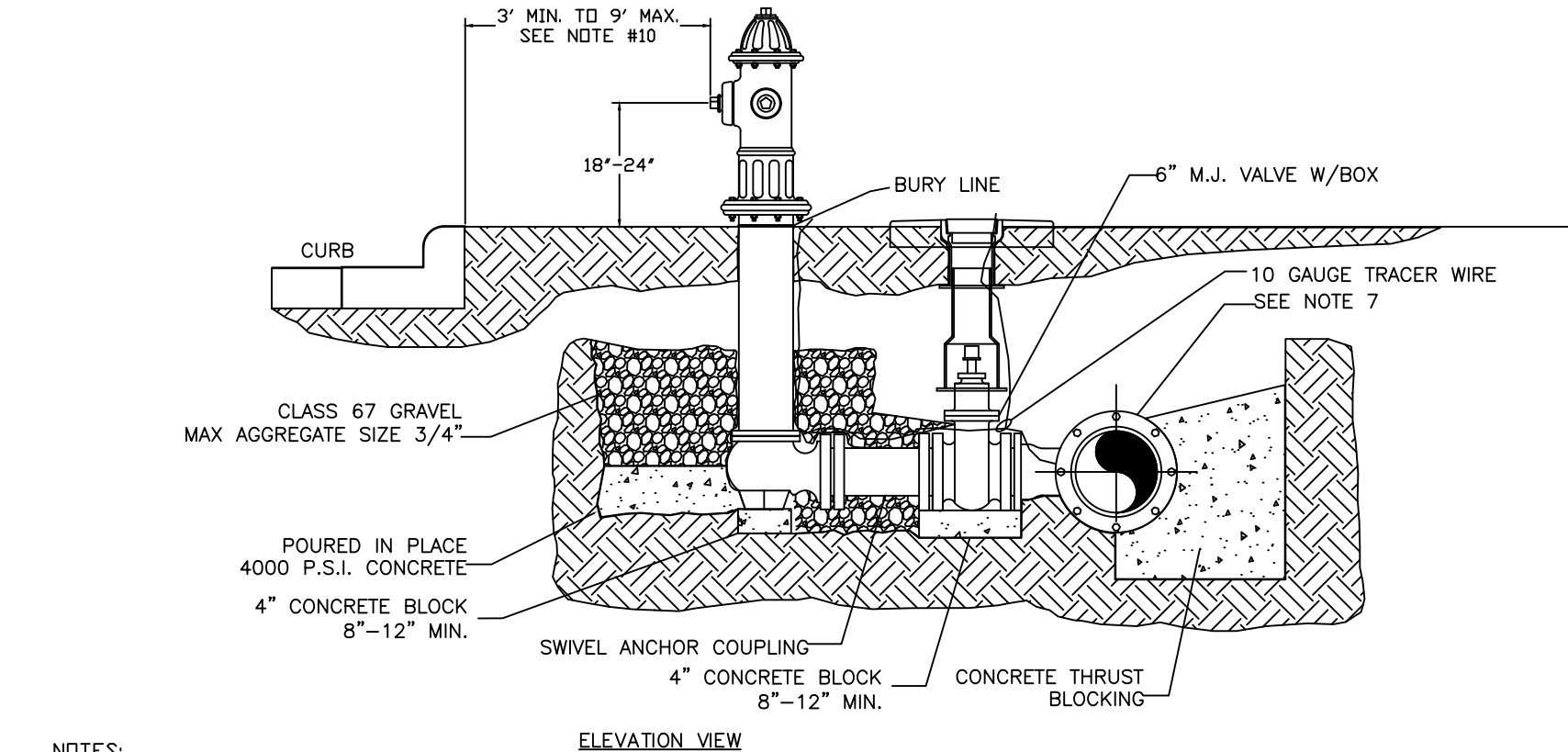
WATER DETAIL: W03

FIRE HYDRANT DETAIL W/
RETAINER GLANDS



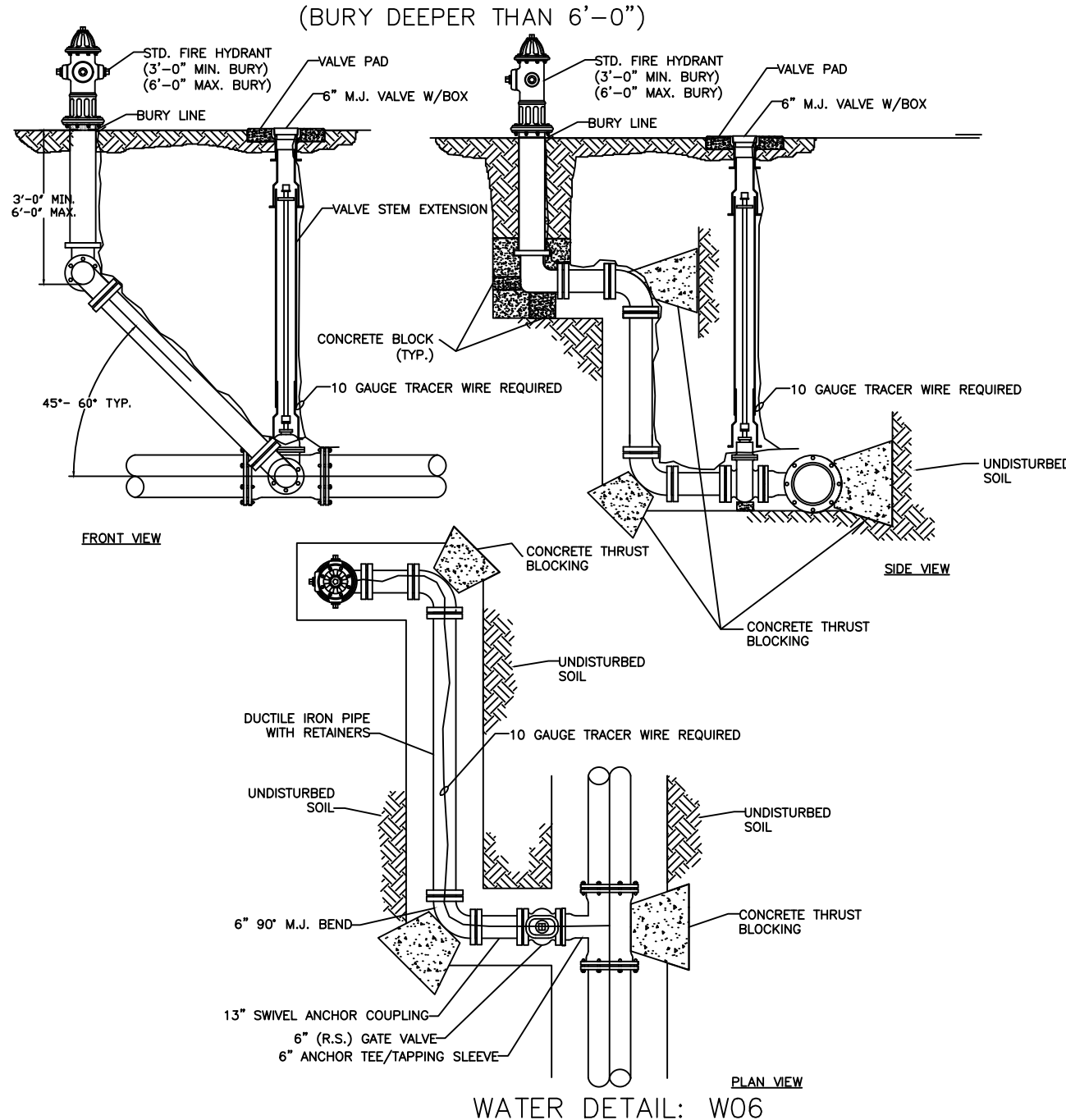
WATER DETAIL: W04

FIRE HYDRANT DETAIL W/SWIVEL ANCHOR COUPLING



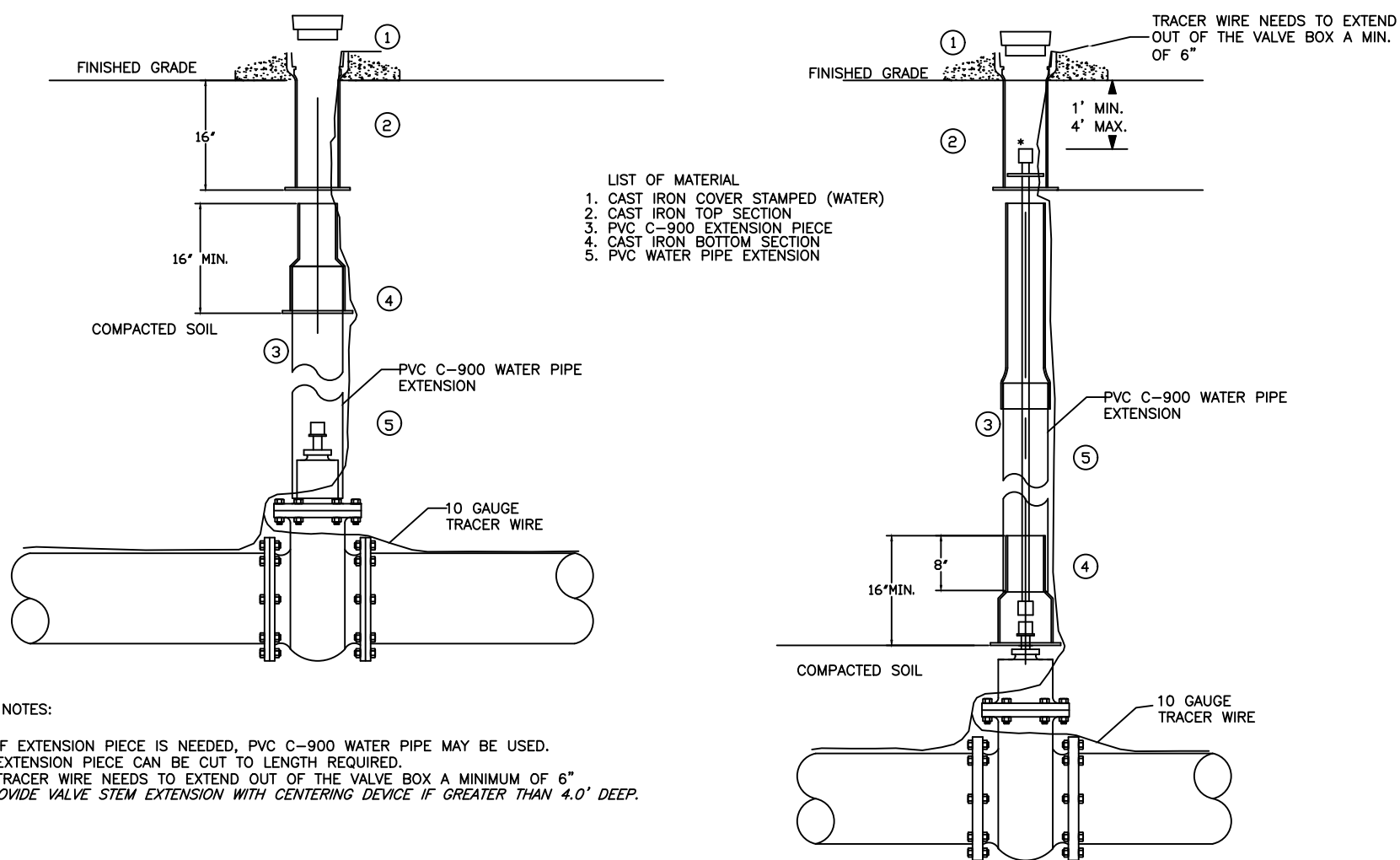
WATER DETAIL: W05

DEEP BURY FIRE HYDRANTS



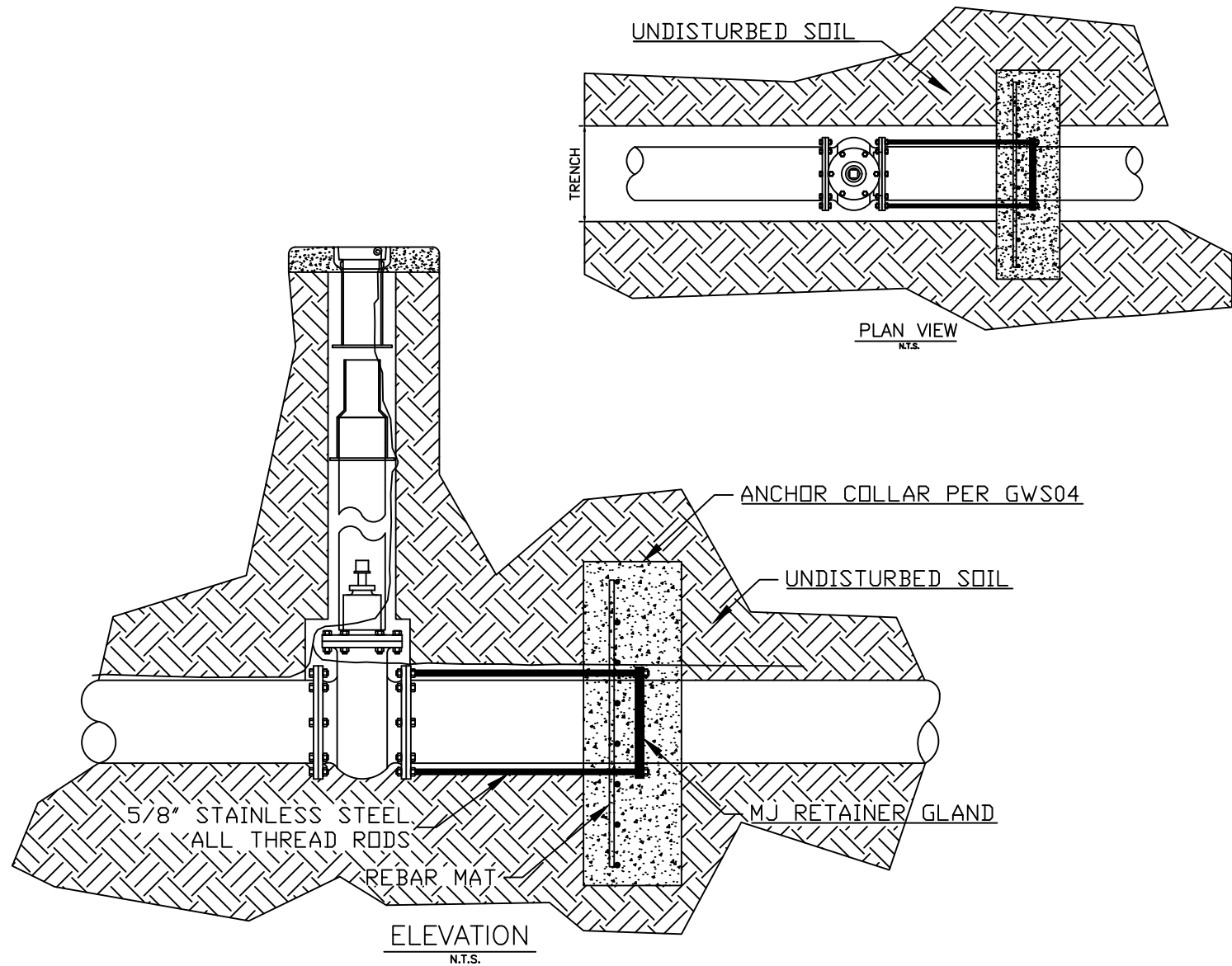
WATER DETAIL: W06

VALVE BOX VALVE STEM & TRACER
WIRE INSTALLATION



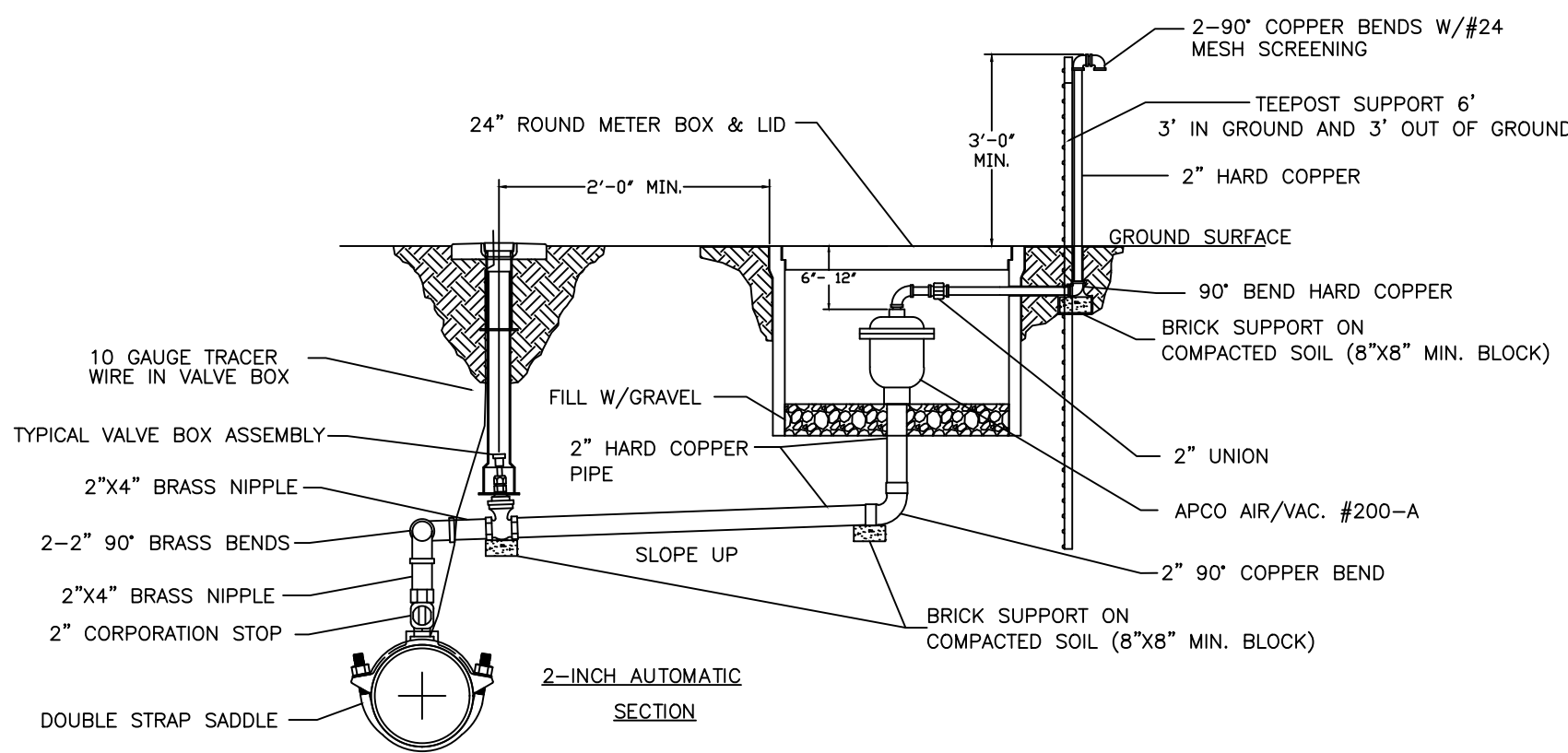
WATER DETAIL: W07

RESTRAINED GATE VALVE

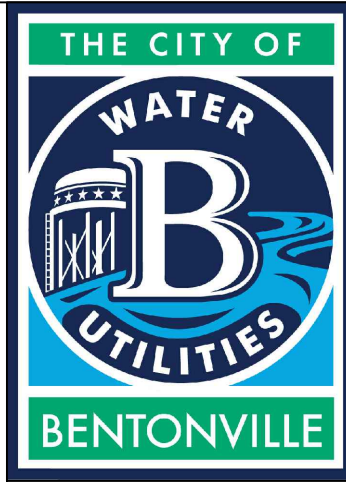


WATER DETAIL: W08

2" COMBINATION AIR/VACUUM VALVE DETAIL

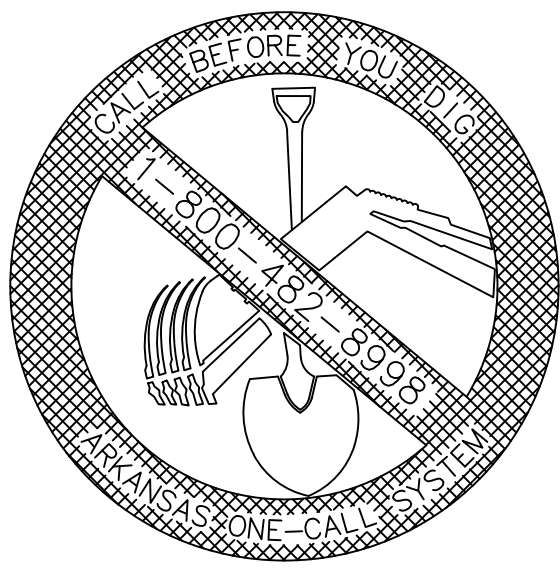


WATER DETAIL: W09



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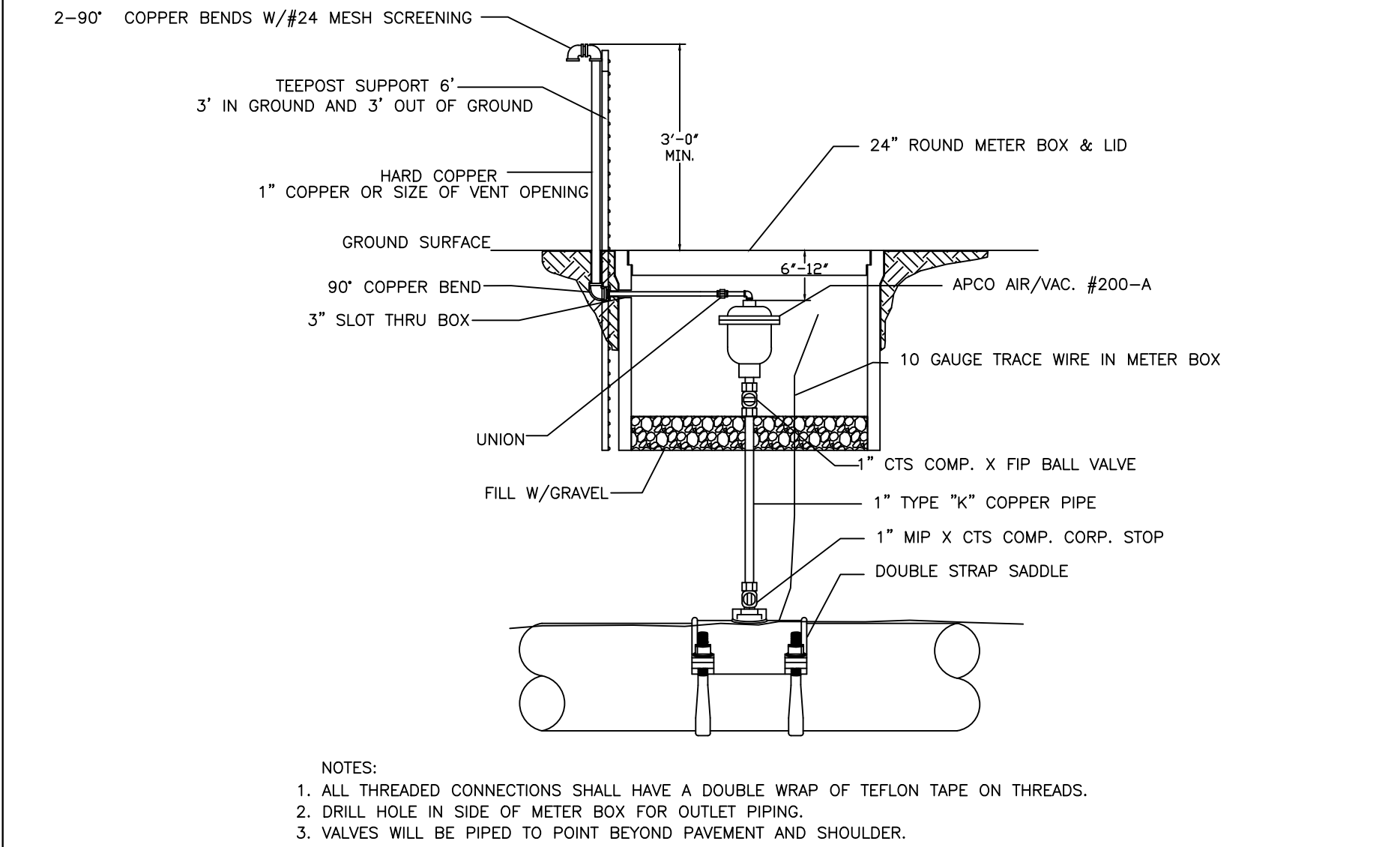
NOTES:

DRAWN BY: JS DATE: 08/27/2024

APPROVED BY: AW DATE: 08/27/2024

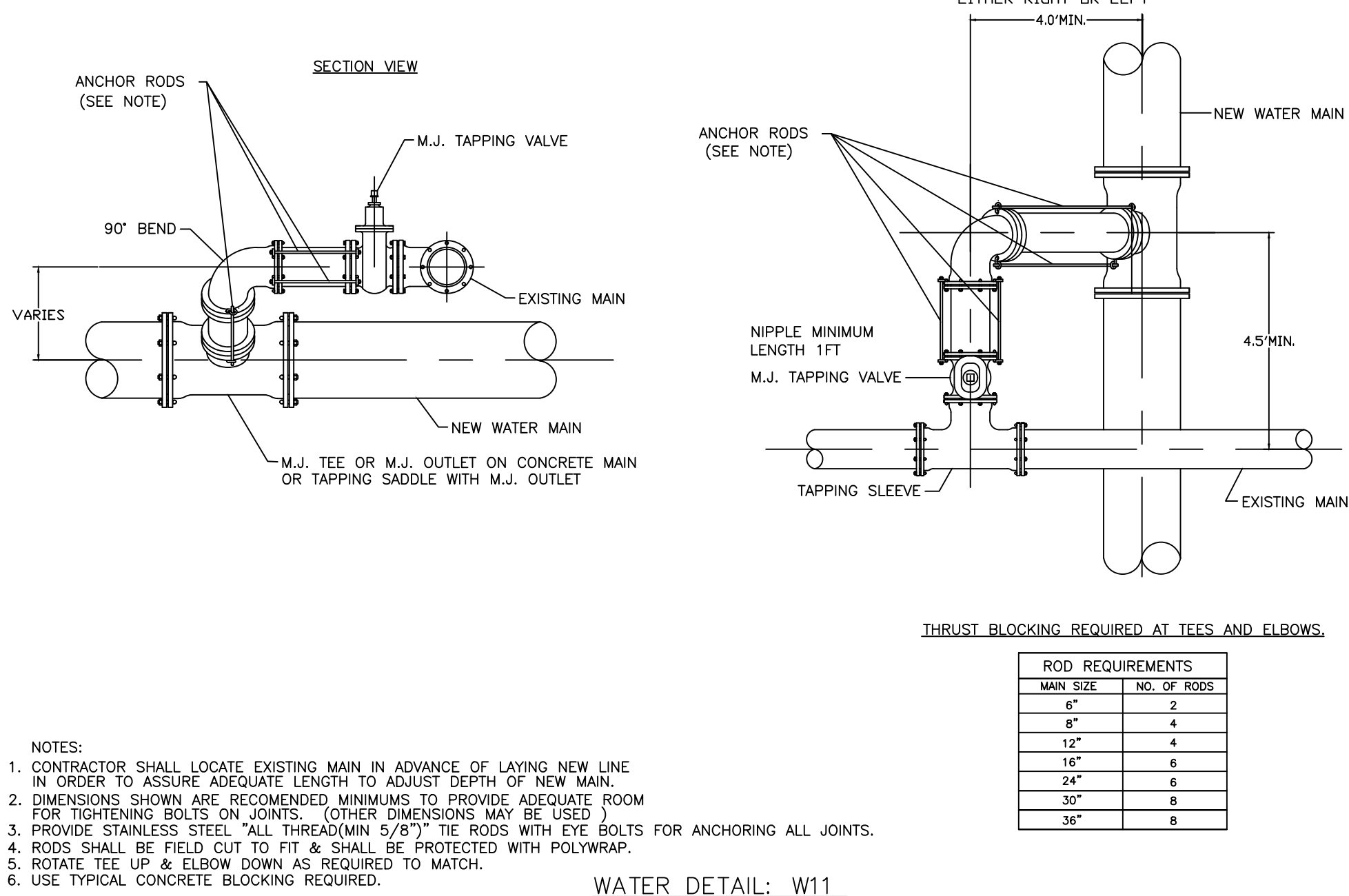
SHEET NUMBER: 1 OF 2

1" COMBINATION AIR/VACUUM VALVE DETAIL



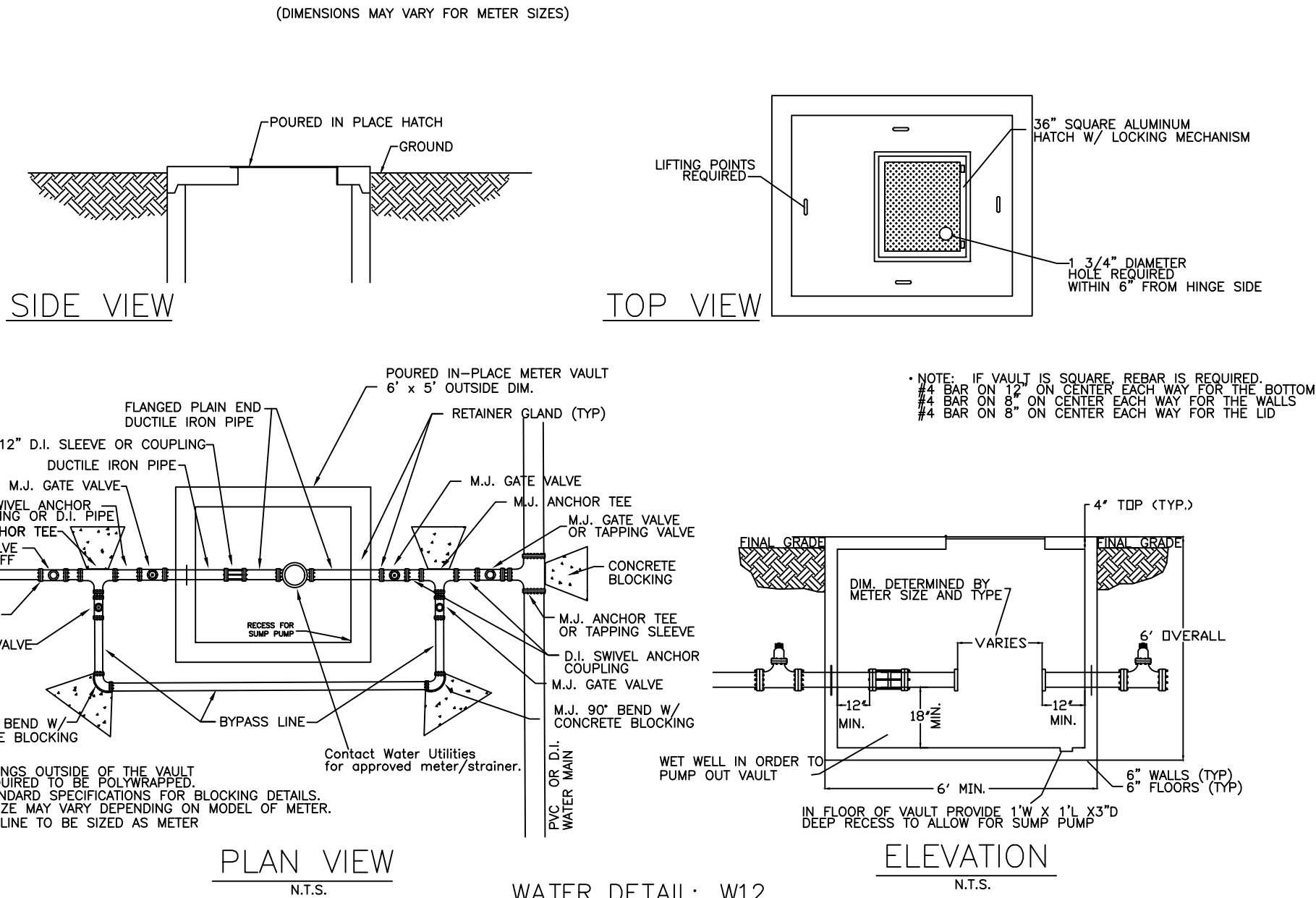
WATER DETAIL: W10

SWING CONNECTION – NEW MAIN TO EXISTING MAIN

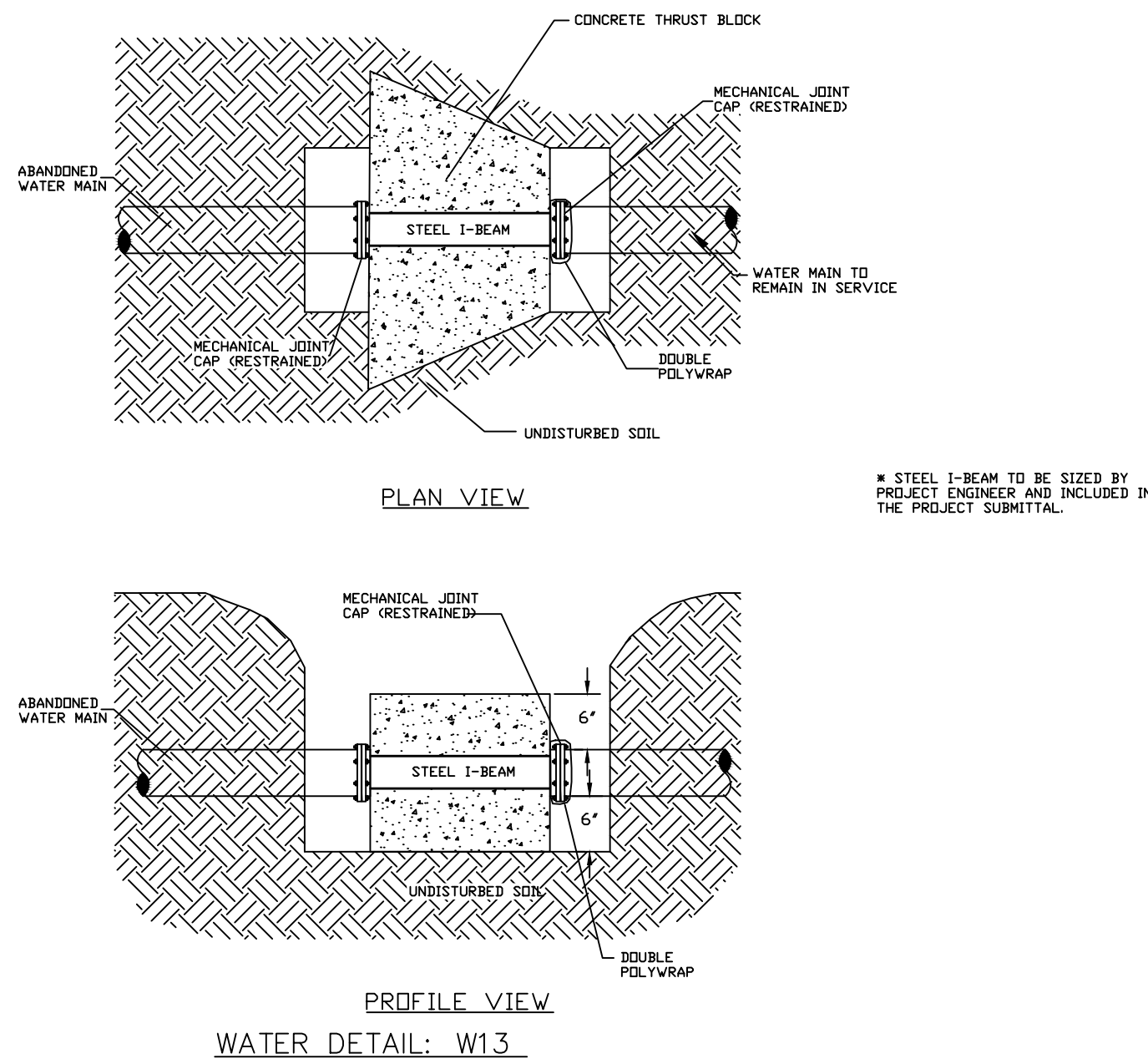


WATER DETAIL: W11

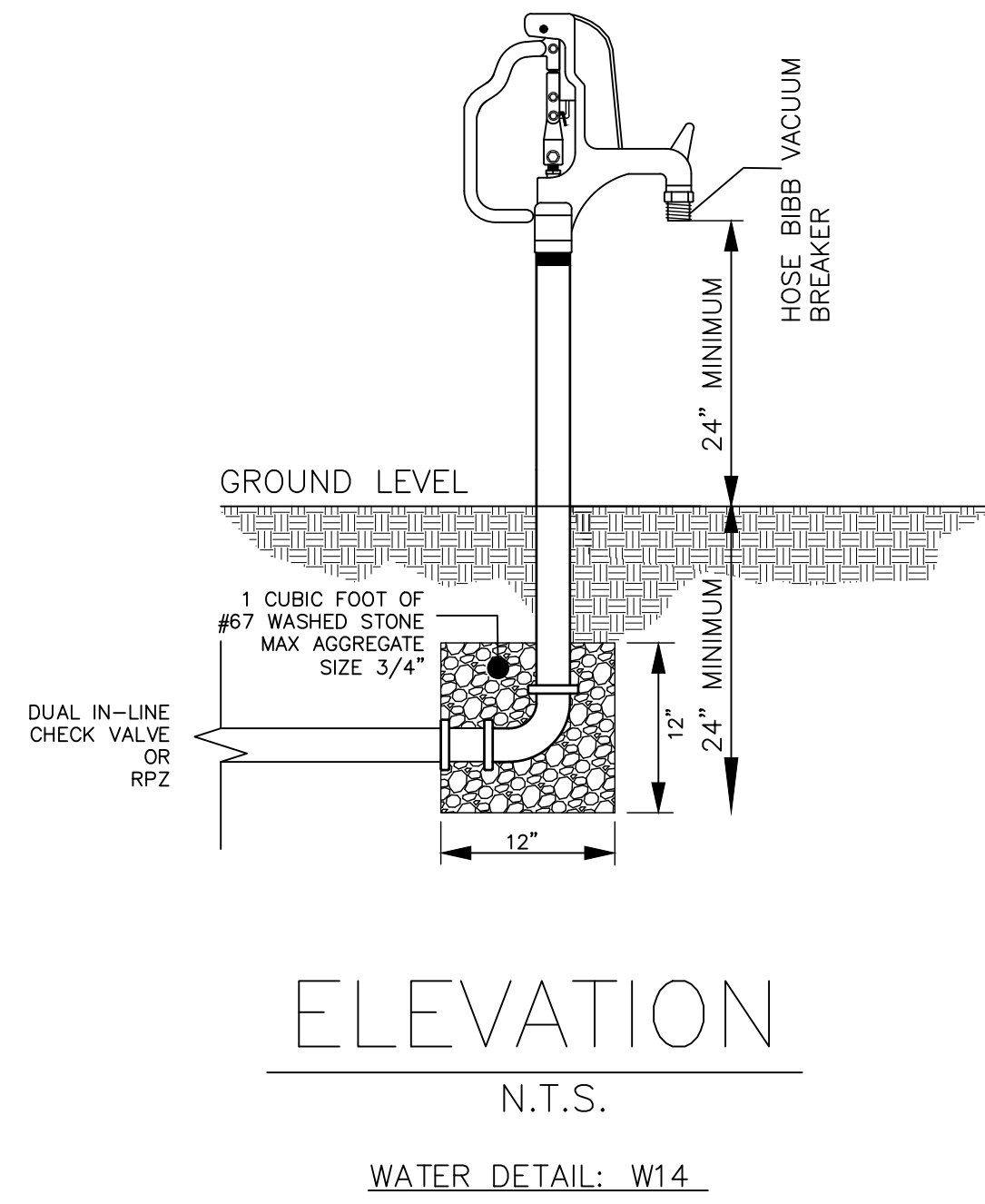
METER VAULT DETAIL FOR 4" – 8" METERS (TYPICAL)



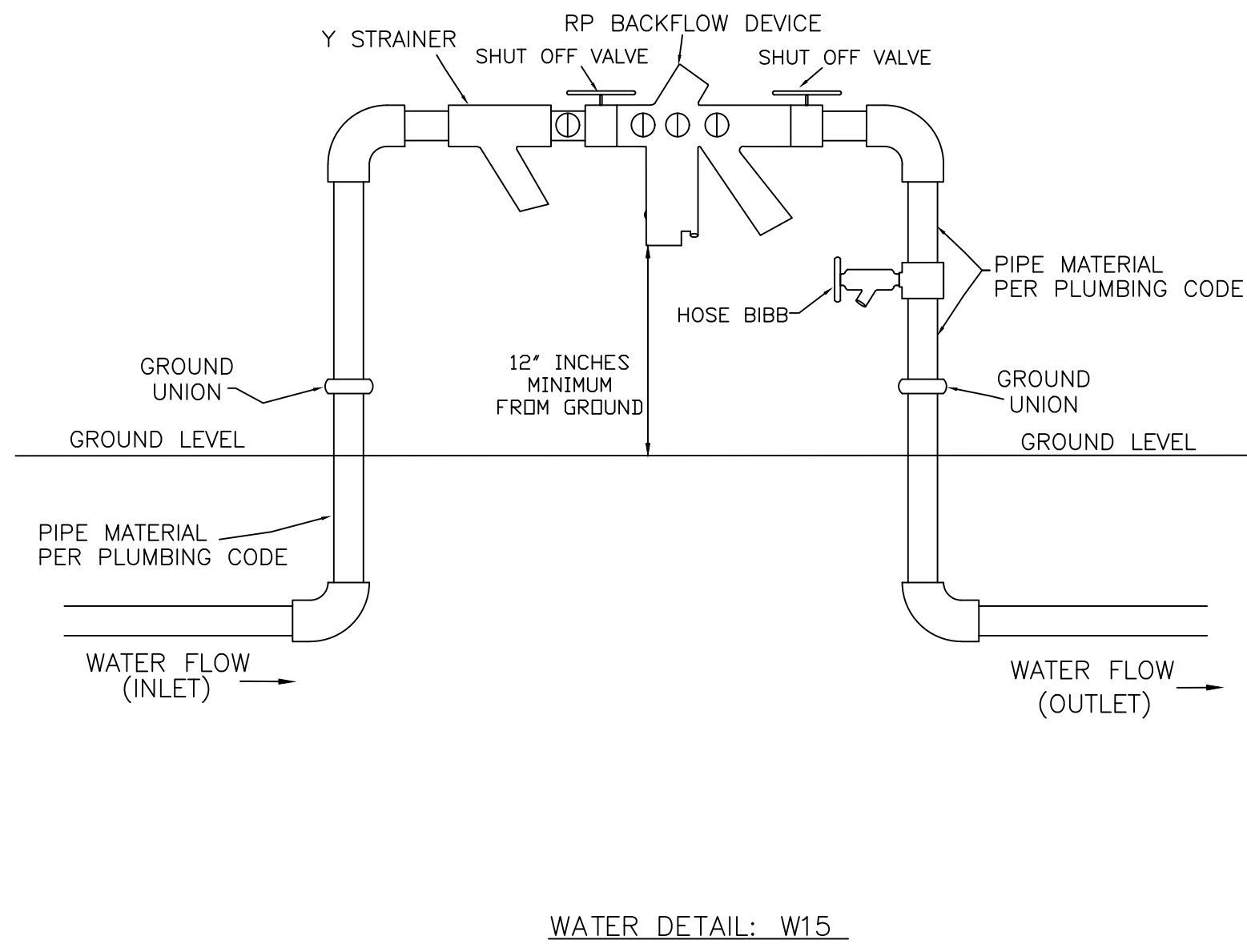
CUT/CAP DETAIL



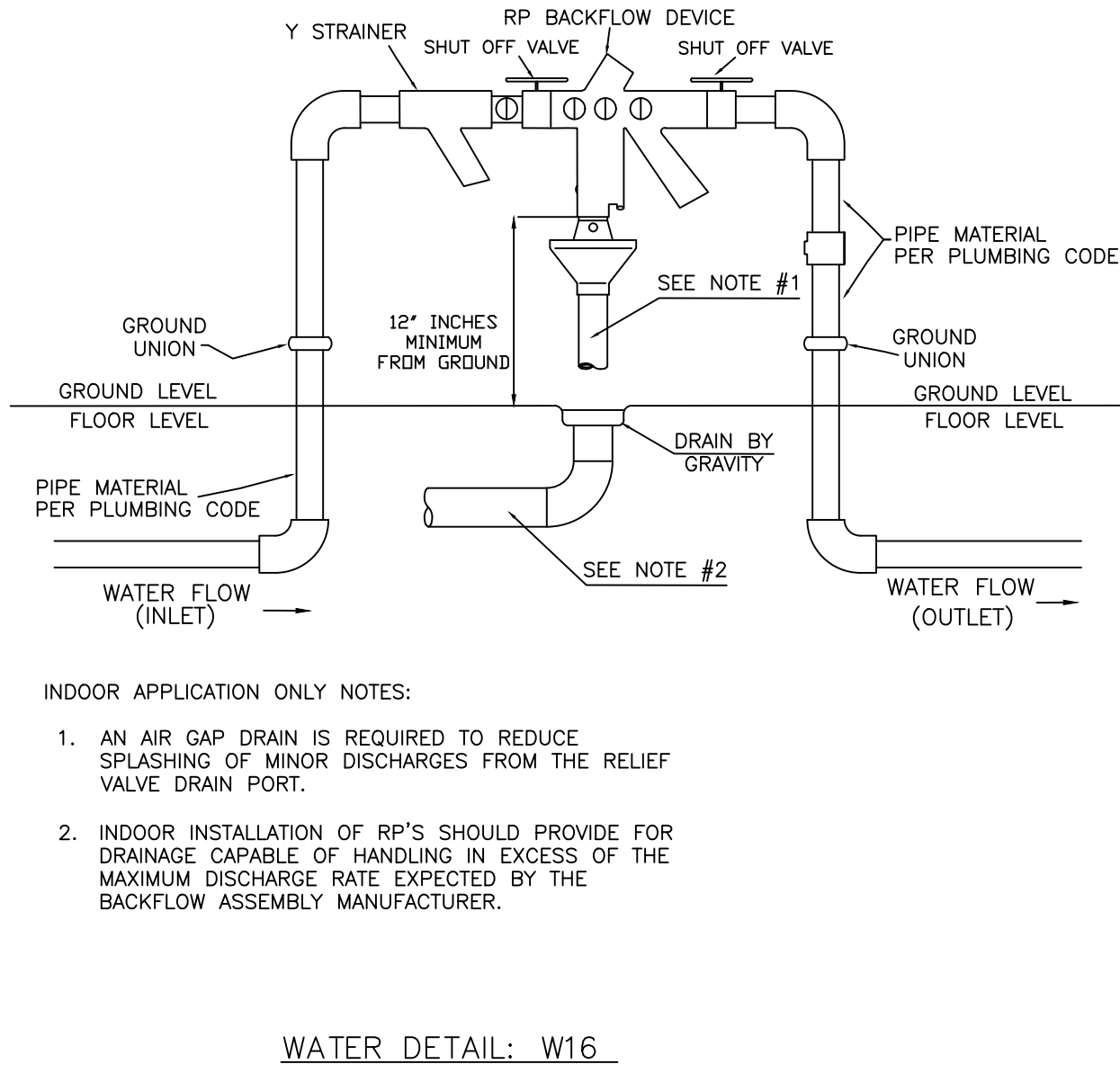
FROST FREE HOSE BIBB WITH BACKFLOW PREVENTION



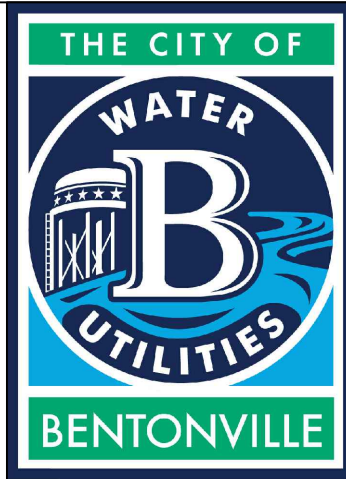
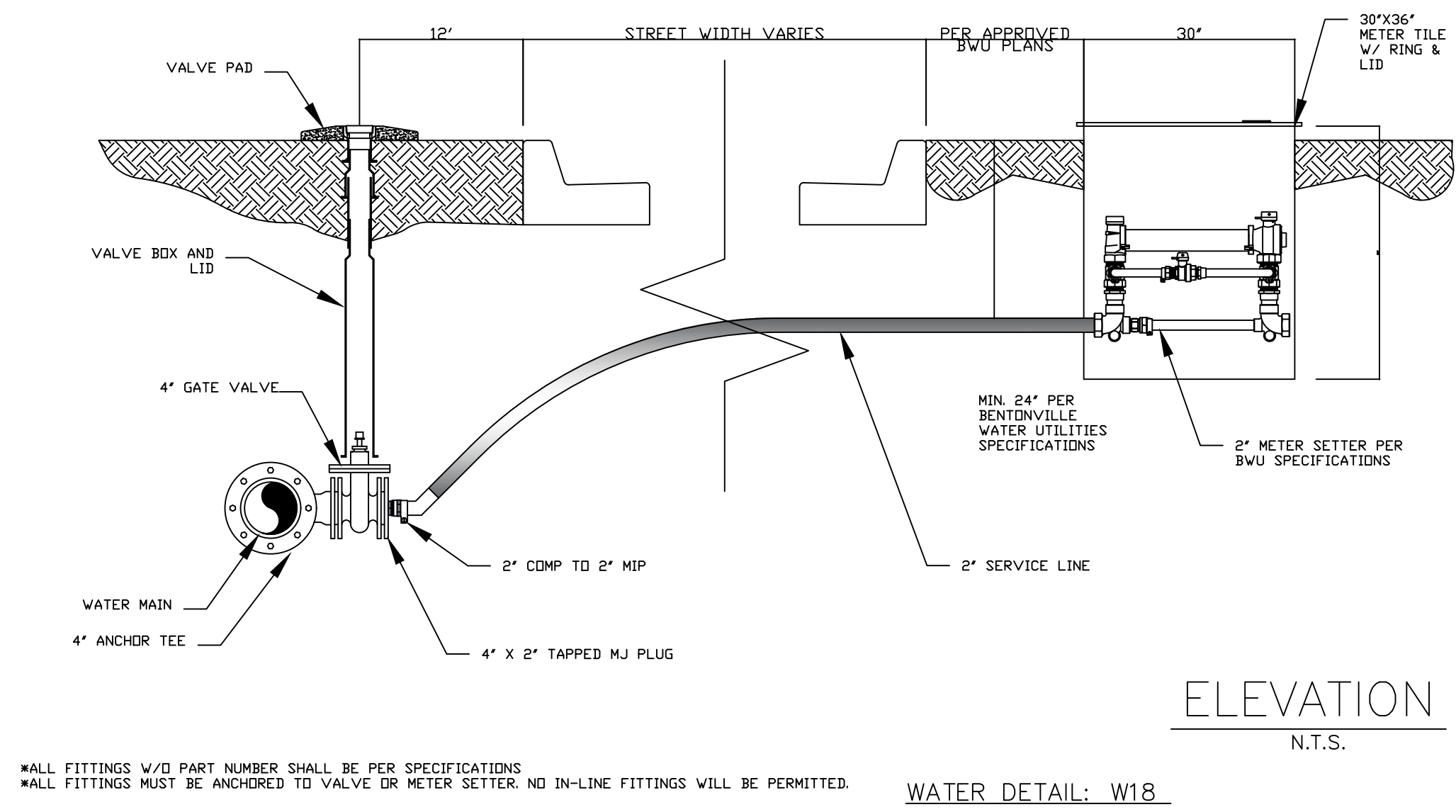
REDUCED PRESSURE (RP) BACKFLOW EXTERIOR IRRIGATION ONLY



REDUCED PRESSURE (RP) BACKFLOW INTERIOR DOMESTIC OR IRRIGATION

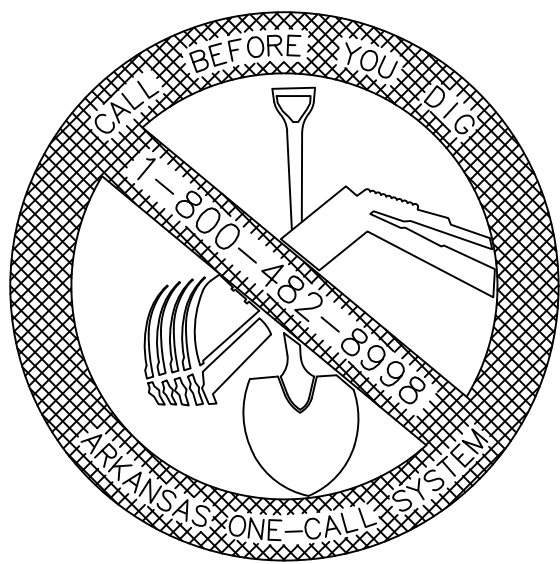


WATER SERVICE DETAIL 2"



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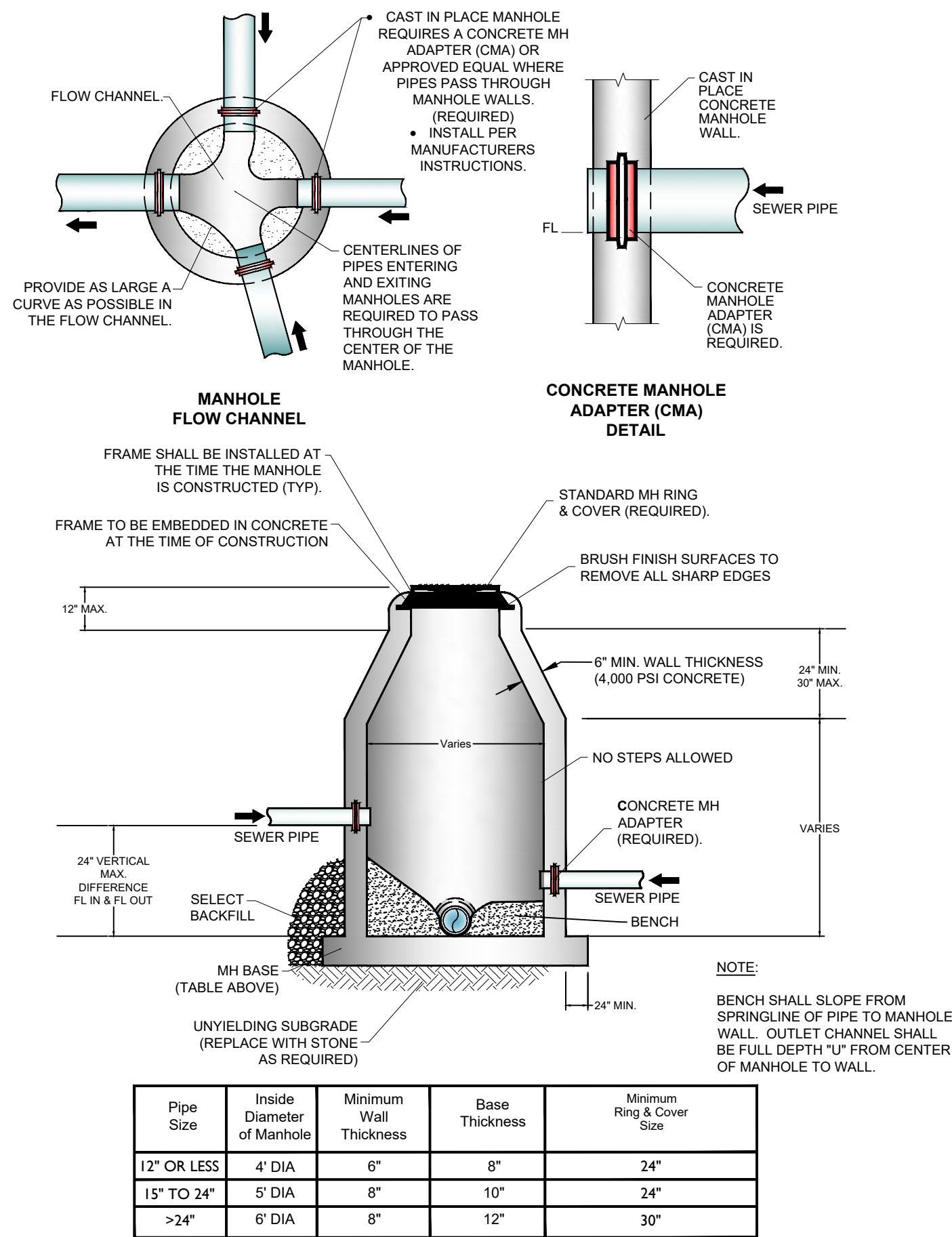


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NOTES:

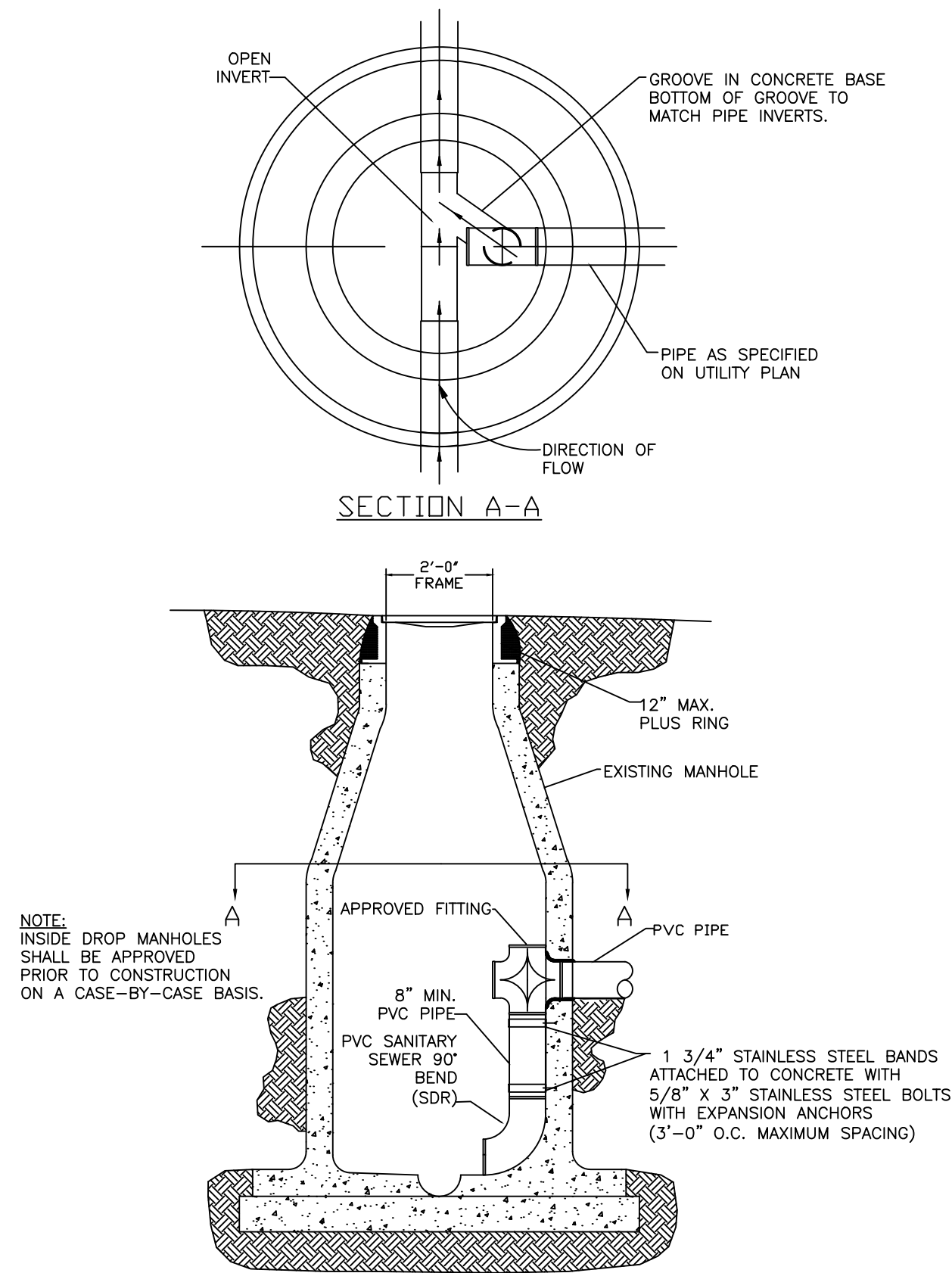
DRAWN BY: JS	DATE: 08/27/2024
APPROVED BY: AW	DATE: 08/27/2024
SHEET NUMBER: 2	OF 2

SANITARY SEWER
CAST IN PLACE MANHOLE



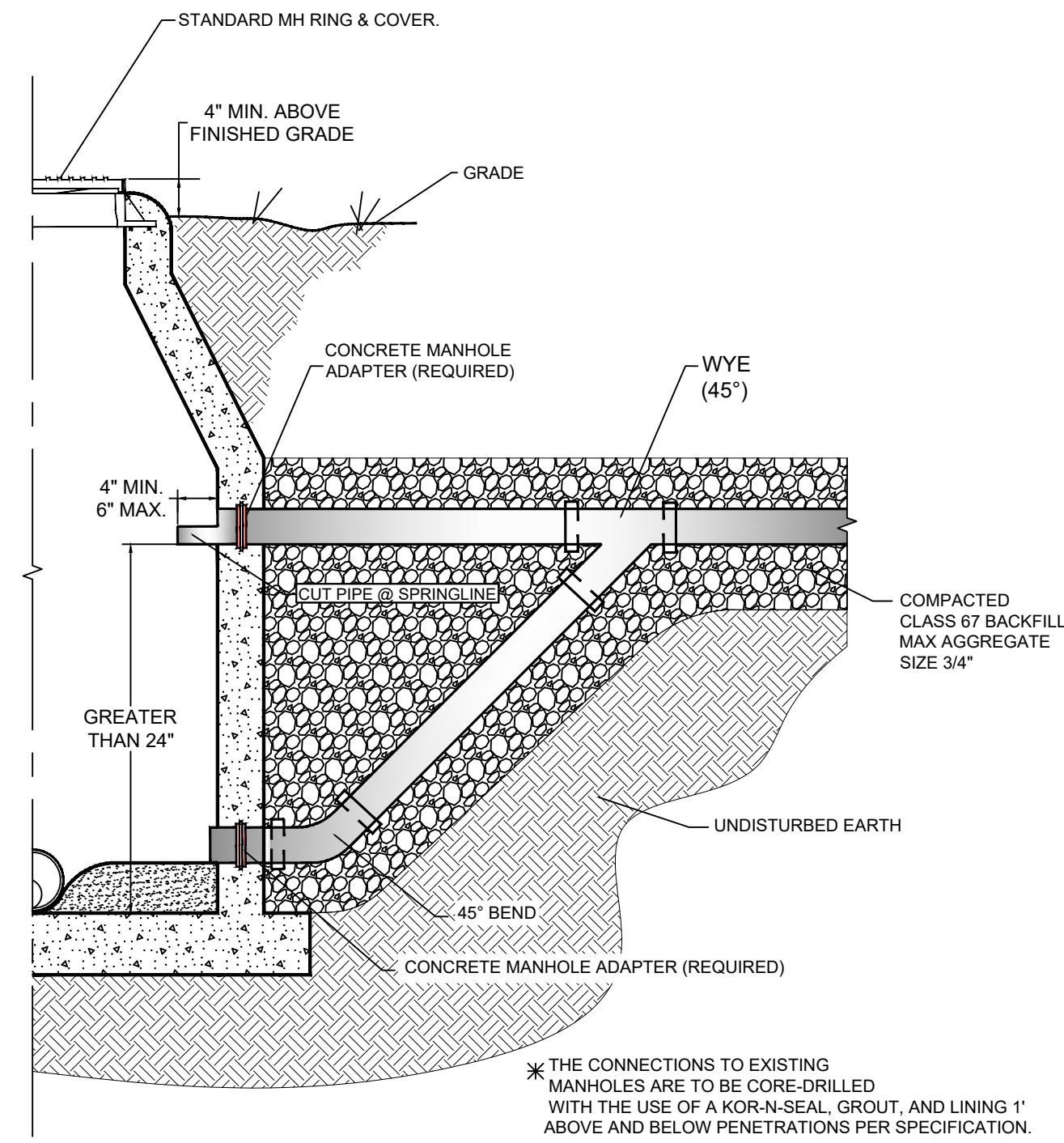
SANITARY SEWER DETAIL: SS01

SANITARY SEWER
INTERIOR DROP MANHOLE



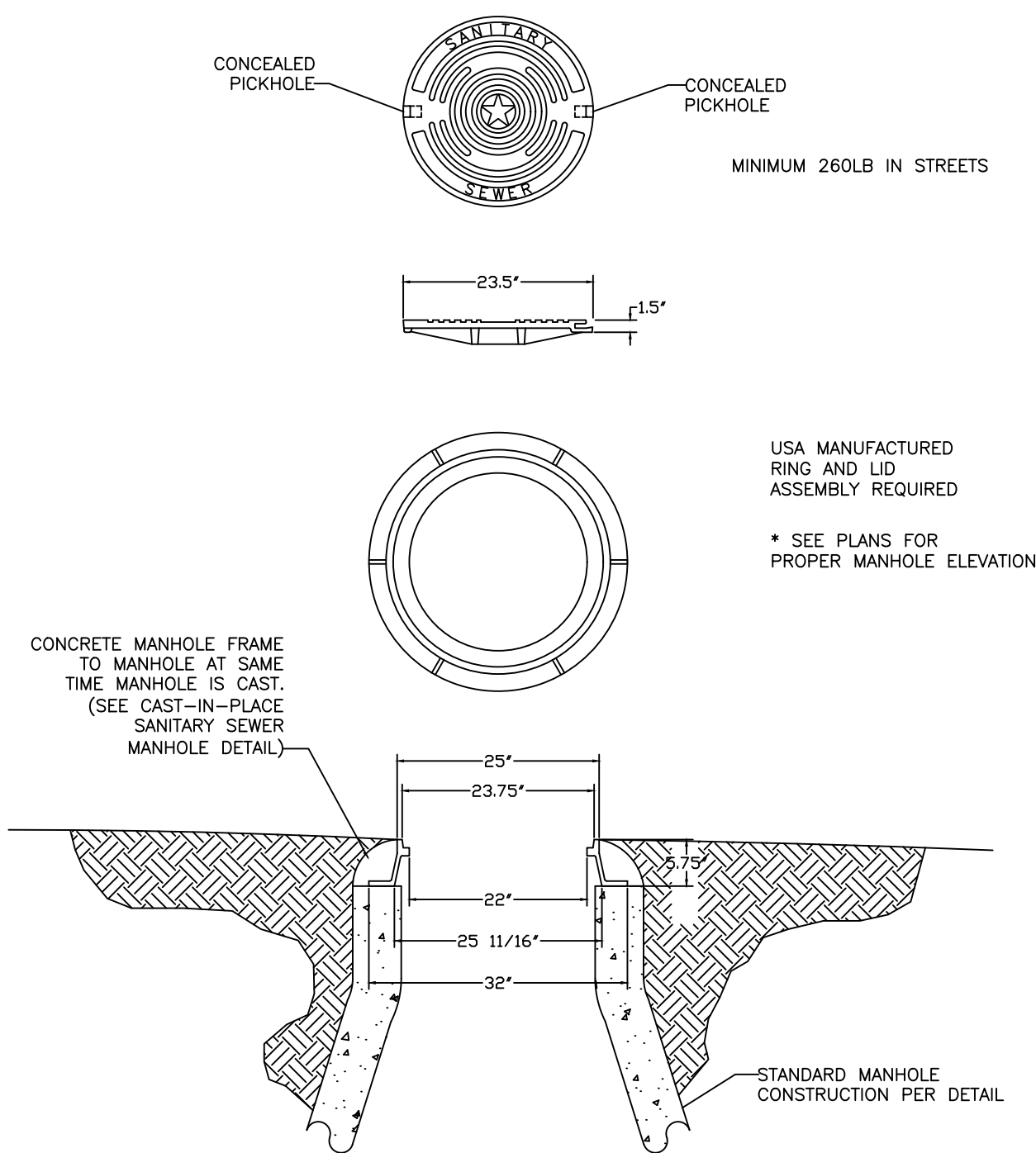
SANITARY SEWER DETAIL: SS02

SANITARY SEWER
EXTERIOR DROP MANHOLE



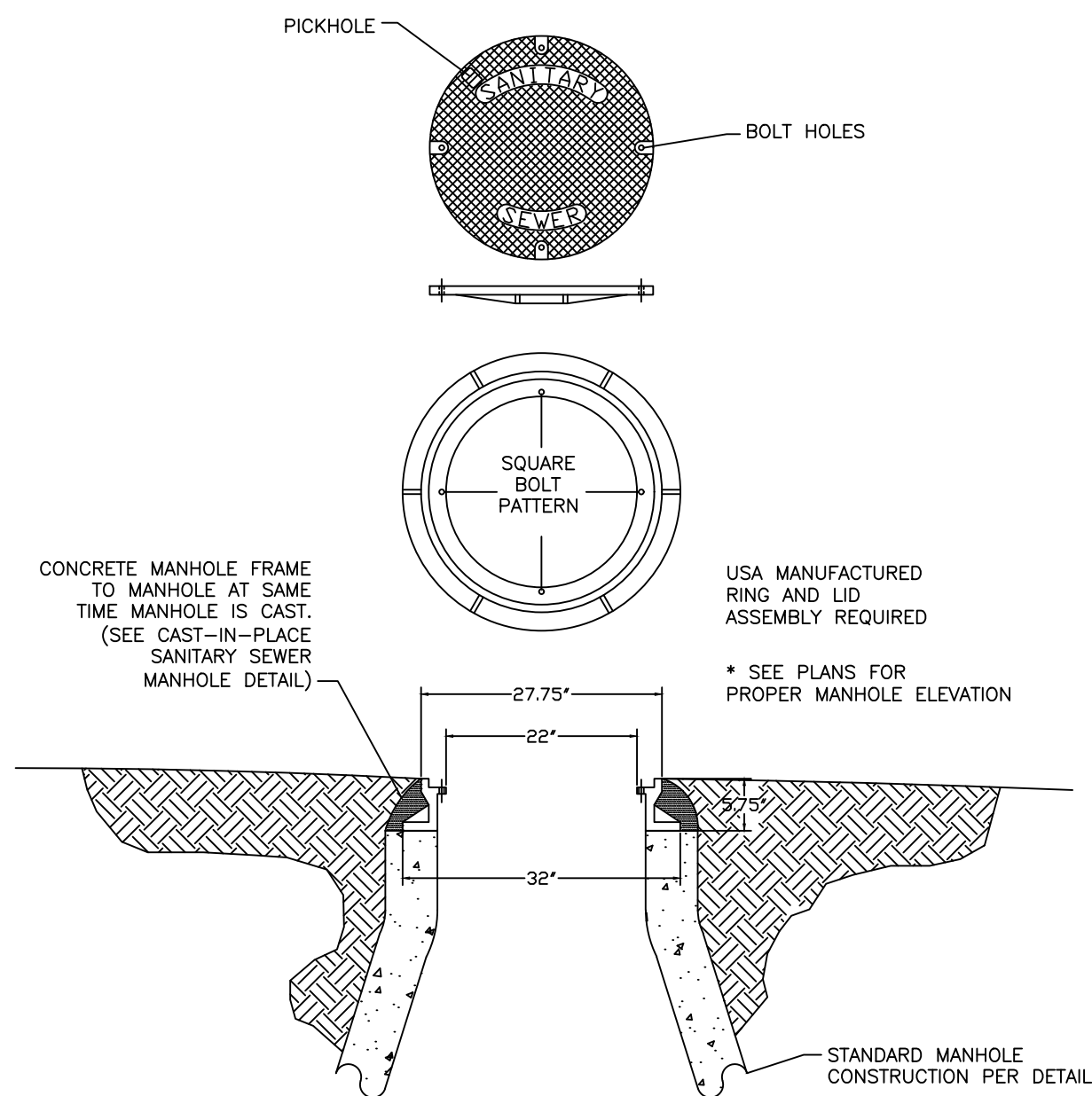
SANITARY SEWER DETAIL: SS03

HEAVY DUTY MANHOLE
LID & FRAME



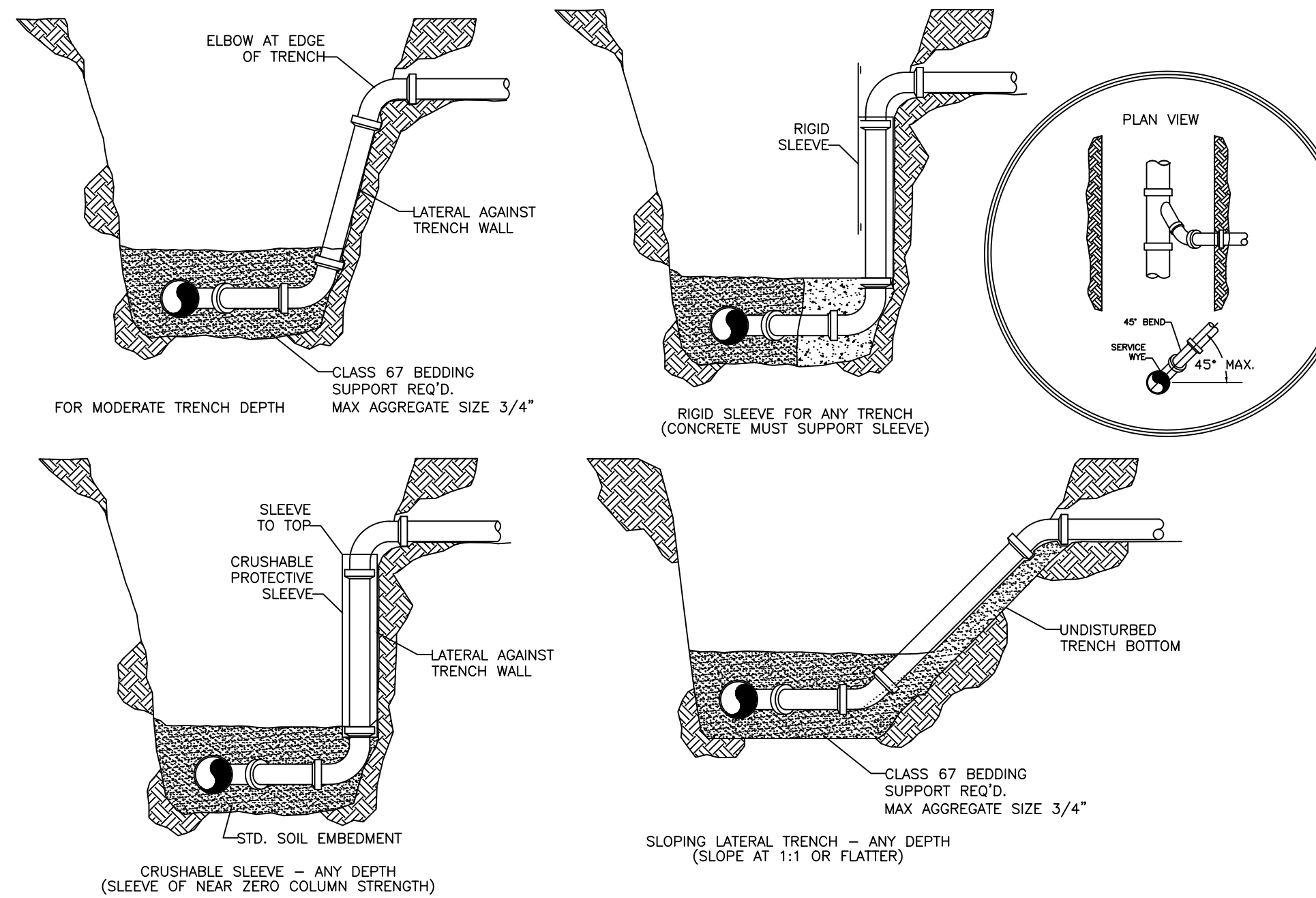
SANITARY SEWER DETAIL: SS04

WATER TIGHT BOLTED MANHOLE
LID & FRAME

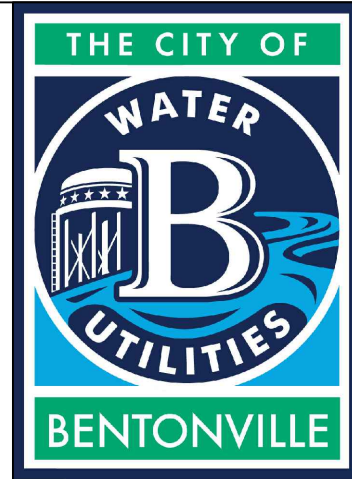


SANITARY SEWER DETAIL: SS05

SANITARY SEWER
SERVICE WYE

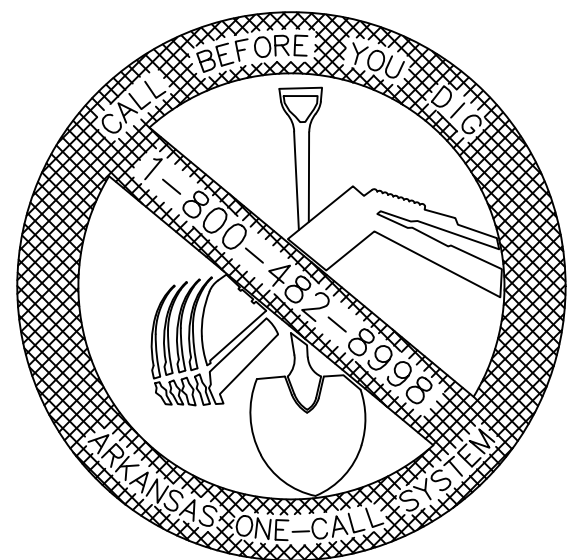


SANITARY SEWER DETAIL: SS06



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DETAILS



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APPROVED BY: AW	DATE: 08/27/2024
SHEET NUMBER: 1	OF 2

Diagram 1: Initial Manhole Condition

- REMOVE MH RING & COVER, CONE AND/OR BARREL TO A MIN. OF 2'-0" BELOW EXISTING GRADE ELEVATION.
- GRADE
- 2'-0"
- PLUG LINES
- CONSTRUCT CONCRETE PLUG FROM INSIDE OF THE EXISTING MANHOLE. FILL BOTTOM OF MANHOLE WITH 4,000 PSI CONCRETE TO 6" ABOVE THE CROWN OF ALL PIPES. NO EXCAVATION IS REQUIRED.
- CLASS 67 GRAVEL ONLY, MAX AGGREGATE SIZE 3/4" (NO SAND)
- ABANDONED SS
- ABANDONED SS

Diagram 2: Final Manhole Condition

- GRADE
- GRADE
- BACKFILL, REPAVE or RESURFACE
- BACKFILL ABANDONMENT IN PAVED AREAS, AND PERFORM PAVEMENT REPAIR AS PER STANDARD STREET DEPARTMENT SPECIFICATIONS.
- BACKFILL ABANDONMENT IN NONPAVED AREAS WITH SELECT NATIVE MATERIAL, AND RESURFACE WITH APPROPRIATE MATERIALS.
- CLASS 67 GRAVEL ONLY, MAX AGGREGATE SIZE 3/4" (NO SAND)
- ABANDONED SS
- ABANDONED SS

VARIABLES WITH MANHOLE ADJUSTMENT DEPTH

STANDARD MH RING & COVER (REQUIRED).

NEW GROUND ELEVATION

ADJUST BARREL WITH NEW CONE TO FINISH GRADE ELEVATION

REMOVE EXISTING CONE

BACKFILL NOTES:

IN STREET:

- PER STREET STD. FOR BACKFILL

IN OTHER AREAS:

- USE SELECT NATIVE BACKFILL

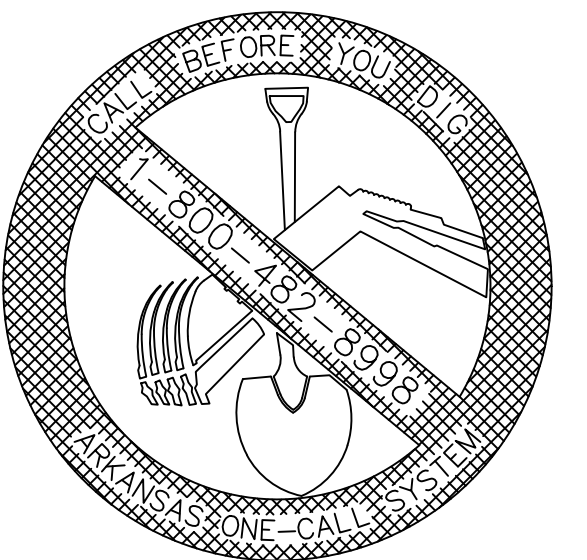
3" X 3" CONSTRUCTION JOINT / KEYHOLE WITH WATERSTOP AND 24" #4 REBAR ON 12" CENTER MANHOLE SHALL BE LINED A MINIMUM OF 1' EITHER SIDE OF JOINT.

EXISTING MANHOLE

EXISTING GRADE

The logo for the City of Bentonville Water Utilities. It features a circular emblem with a blue background. Inside the circle, there is a white stylized 'B' with a water tower and pipes integrated into its left side. The word 'WATER' is written in white above the 'B', and 'UTILITIES' is written in white below it. The entire emblem is set against a green background with a white border. The text 'THE CITY OF' is at the top and 'BENTONVILLE' is at the bottom, both in white on a green background.

SAN. SEWER DETAILS



SHEET NUMBER: 2	OF 2
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