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A NEW BUILDING FOR THE

ROGERS FACILITIES DEPARTMENT

2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

MATERIAL LEGEND

- BATT INSULATION
- BRICK
- CONCRETE
- CONCRETE BLOCK
- EARTH
- GRAVEL
- GYP. BOARD OR PLASTER
- METAL
- METAL STUDS
- PLYWOOD
- RIGID INSULATION
- WOOD BLOCKING
- WOOD FINISH
- WOOD STUD

SYMBOL LEGEND

- SIM / 1 / A101 SECTION SHEET / SIM / 1 / A101
- SHEET / DETAIL # — WALL ELEVATION
- 100a — DOOR TAG
- W12 — WINDOW/STOREFRONT TAG
- A1-2 — WALL TAG
- GENERAL NOTE
- 10 — FIXTURE TAG
- LEVEL CHANGE
- N — NORTH ARROW

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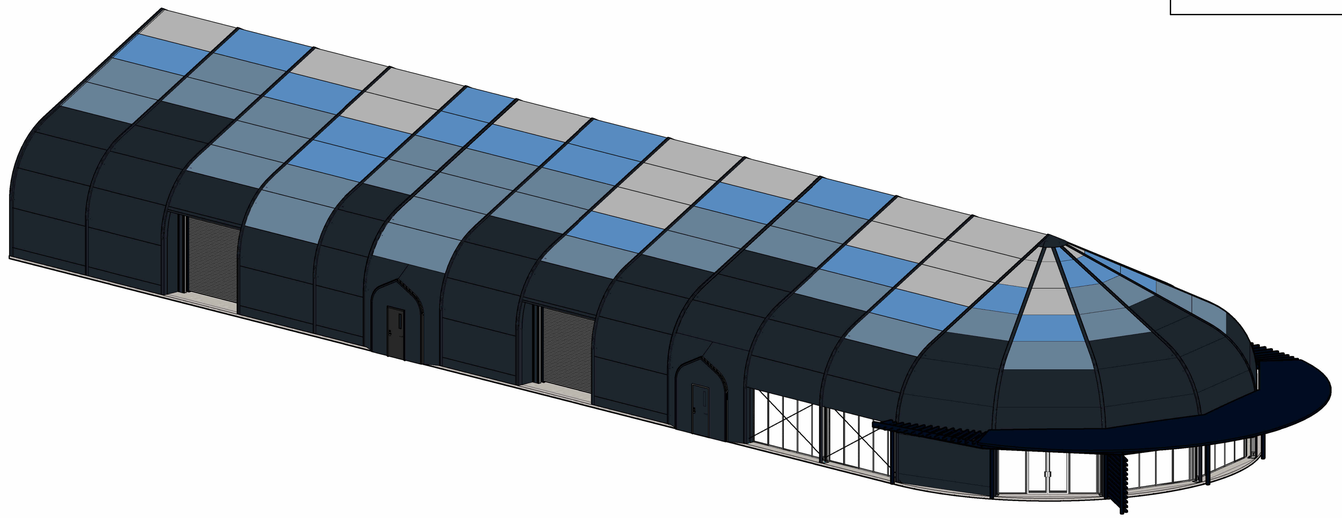
ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
APPROX	APPROXIMATELY
A/V	AUDIO VISUAL
BLDG	BUILDING
BO/	BOTTOM OF _____
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFTI	CONTRACTOR FURNISHED, TENANT INSTALLED
C.J.	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
D	DRYER
DBL	DOUBLE
DIA	DIAMETER
DIM	DIMENSION
DN	DOWN
DS	DOWNSPOUT
DW	DISHWASHER
EA	EACH
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EJ	EXPANSION JOINT
ELEC	ELECTRIC OR ELECTRICAL
EQ	EQUAL
ETC	ETCETERA
EXT	EXTERIOR
FIN	FINISH
FTG	FOOTING
FEC	FIRE EXTINGUISHER CABINET
GA	GAUGE
GALV	GALVANIZED
GFI	GROUND FAULT INTERRUPTED
GSF	GROSS SQUARE FEET
GYP. BD.	GYPSUM BOARD
HDW	HARDWARE
HM	HOLLOW METAL
HR	HOUR
HT	HEIGHT
HVAC	HEATING VENTILATING AND AIR CONDITIONING
ID	INSIDE DIAMETER
AHJ	AUTHORITY HAVING JURISDICTION
LAV	LAVATORY
LBS	POUNDS
LF	LINEAR FOOT OR LINEAL FEET
MAX	MAXIMUM
MECH	MECHANICAL
MFR	MANUFACTURER
MANUF	MANUFACTURER
MIN	MINIMUM
MISC	MISCELLANEOUS
MTL	METAL
NA	NOT APPLICABLE
NC	NO CHANGE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED OWNER INSTALLED
+/-	PLUS OR MINUS
PLYWD	PLYWOOD
PW	PLYWOOD
PT	PRESSURE TREATED
PVC	POLYVINYL CHLORIDE
RCP	REFLECTED CEILING PLAN
REF	REFER OR REFERENCE
REQ'D	REQUIRED
RO	ROUGH OPENING
SF	SQUARE FOOT OR SQUARE FEET
SHT	SHEET
SIM	SIMILAR
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURE OR STRUCTURAL
SYN	SYNTHETIC
T	TEMPERED
TEL	TELEPHONE
TFCI	TENANT FURNISHED, CONTRACTOR INSTALLED
TFTI	TENANT FURNISHED, TENANT INSTALLED
TLT	TOILET
TO/	TOP OF _____
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VIF	VERIFY IN FIELD
W	WASHER OR WALL
W/	WITH
W/O	WITHOUT
WD	WOOD
WH	WATER HEATER

NOTE: FINISH SELECTIONS ABBREVIATIONS ARE NOT ON THIS LIST. REFER TO THE FINISH LEGEND FOR FINISH ABBREVIATIONS.

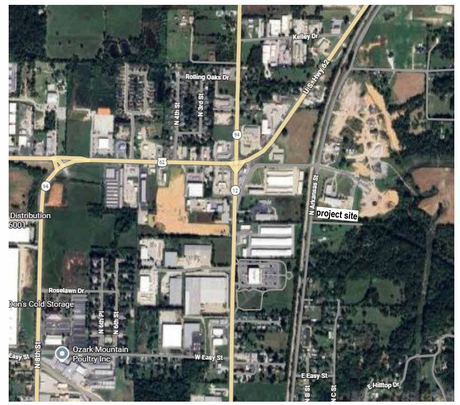


PERMITS & APPLICABLE CODES

ALL CONSTRUCTION AND METHODS WILL MEET STANDARD ACCEPTABLE PRACTICE AND COMPLY TO ALL APPLICABLE ORDINANCES AND RESTRICTIONS ADOPTED BY THE CITY OF ROGERS, ARKANSAS, AND THE ARKANSAS STATE FIRE PREVENTION CODE.

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR AT THE JOB SITE PRIOR TO COMMENCING CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT BEFORE PROCEEDING WITH THE WORK.
2. CONTRACTOR SHALL OBTAIN THE LATEST SET OF DRAWINGS, INCLUDING ANY REVISIONS, BEFORE STARTING CONSTRUCTION.
3. NO CHANGES OR SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT.
4. ALL CONSTRUCTION SHALL MEET THE REQUIREMENTS OF LOCAL ORDINANCES, THE INTERNATIONAL BUILDING CODE & THE INTERNATIONAL RESIDENTIAL CODE, CURRENT EDITIONS.
5. ALL DIMENSIONS MUST BE VERIFIED IN THE FIELD. ANY MAJOR DISCREPANCIES OR DISCREPANCIES PRECIPITATING A MATERIAL CHANGE OF THE INTENDED DESIGN MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IMMEDIATELY.
6. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE REPRODUCTIONS AS IT MAY NOT ACCURATELY REFLECT THE PUBLISHED SCALE OF THE DRAWINGS.
7. THIS PROJECT HAS BEEN DRAWN USING AUTODESK REVIT 2025. PRECISE MEASUREMENTS, NOT INCLUDED IN THE PUBLISHED SET, MAY BE OBTAINED BY CONTACTING THE ARCHITECT.
8. THE ARCHITECT, ON BEHALF OF THE OWNER, RESERVES THE RIGHT TO REJECT ANY WORK THAT IS DEFECTIVE OR OF POOR WORKMANSHIP OR WORK THAT DEVIATES FROM THE SPECIFICATIONS OF THESE DOCUMENTS.
9. DRAWINGS ARE TO BE ISSUED TO SUBCONTRACTORS IN COMPLETE SETS SO THAT ALL ARCHITECTURAL DETAILS AFFECT THEIR WORK IS INCLUDED.
10. THE ARCHITECT RESERVES THE RIGHT TO CHECK AND APPROVE ALL SHOP DRAWINGS AND DOES NOT ACCEPT ANY RESPONSIBILITY FOR THE INTERPRETATION OF THESE PLANS BY OTHERS.
11. SHOP DRAWINGS OF ALL SPECIALTY ITEMS INCLUDING, BUT NOT LIMITED TO, CABINETRY, STEELWORK, ETC. SHALL BE SUBMITTED TO THE ARCHITECT FOR APPROVAL PRIOR TO FABRICATING THESE ITEMS.
12. ALL SECTIONS AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY FOR THE SAME AND SIMILAR SITUATIONS THROUGHOUT THE BUILDING, UNLESS OTHERWISE NOTED.
13. SHOULD THE CONTRACTOR OR SUBCONTRACTOR REQUIRE DETAILS NOT PROVIDED IN THESE DOCUMENTS, THE ARCHITECT SHOULD BE CONTACTED IMMEDIATELY. THE ARCHITECT WILL PROVIDE CLARIFICATION IN WRITTEN OR GRAPHIC FORM AS NECESSARY.



"I HEREBY CERTIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN PREPARED BY ME, OR UNDER MY SUPERVISION. I FURTHER CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THESE PLANS AND SPECIFICATIONS ARE AS REQUIRED BY LAW AND IN COMPLIANCE WITH THE ARKANSAS FIRE PREVENTION CODE FOR THE STATE OF ARKANSAS 2021 EDITION."

5/08/2026

TIM MADDOX

REGISTERED ARCHITECT — Timothy W. Maddox — License Number 9967 — 5/08/2026 — STATE OF ARKANSAS

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE
ROGERS FACILITIES DEPARTMENT
2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

© 2026 DEMX ARCHITECTURE

COVER SHEET

1.0

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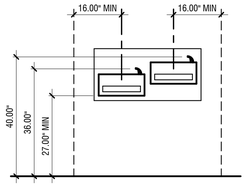
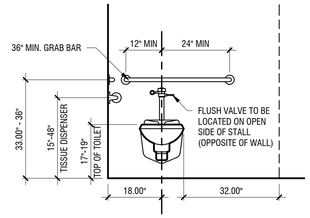
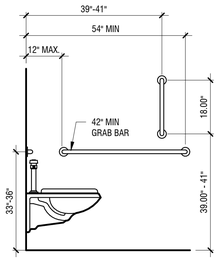


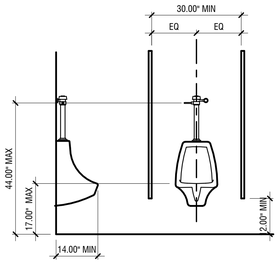
DRINKING FOUNTAIN



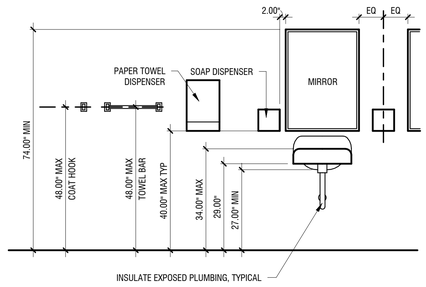
ACCESSIBLE WC (FRONT)



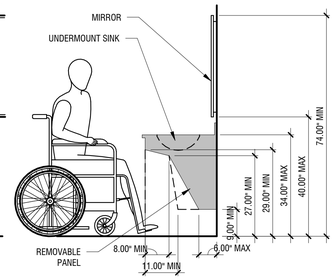
ACCESSIBLE WC (SIDE)



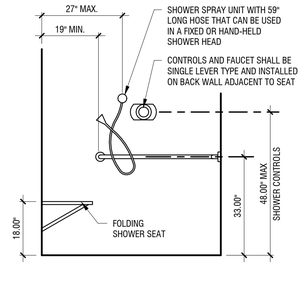
URINAL AND PARTITION



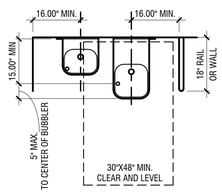
SINK AND ACCESSORIES



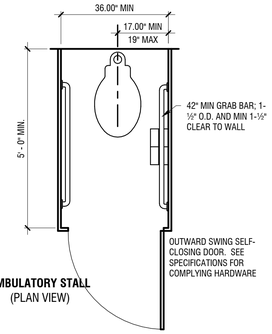
ACCESSIBLE COUNTER TOP/ SINK VANITY CLEARANCE



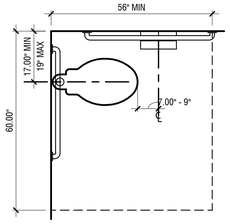
ACCESSIBLE SHOWER



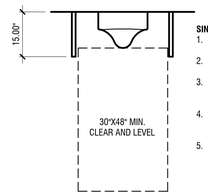
DRINKING FOUNTAIN
(PLAN VIEW)



AMBULATORY STALL
(PLAN VIEW)

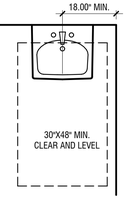


ACCESSIBLE WC CLEARANCE
(PLAN VIEW)

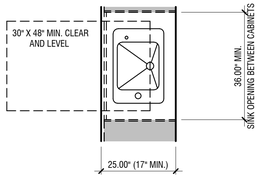


URINAL AND PARTITION
(PLAN VIEW)

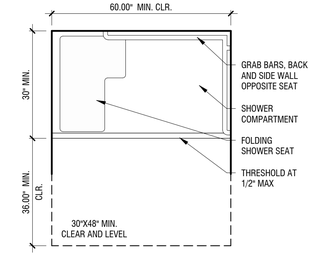
SINK NOTES:
1. DRAIN AND HOT WATER PIPING IS INSULATED OR CONFIGURED TO PREVENT CONTACT
2. THERE ARE NO SHARP OR ABRASIVE ELEMENTS UNDER SINK.
3. FAUCETS ARE LEVER TYPE, ELECTRONICALLY ACTIVATED OR APPROVED SELF CLOSING VALVES (MIN. 10 SECOND OPEN FLOW)
4. FAUCETS ARE OPERABLE WITH ONE HAND AND DO NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST
5. 5 LB. MAXIMUM FORCE REQUIRED TO ACTIVATE CONTROLS



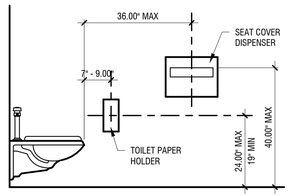
SINK
(PLAN VIEW)



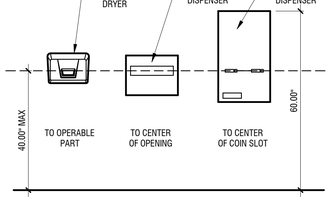
ACCESSIBLE COUNTER TOP/ SINK VANITY CLEARANCE
(PLAN VIEW)



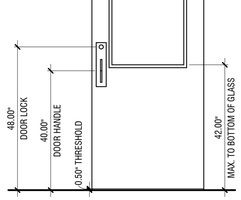
ACCESSIBLE SHOWER
(PLAN VIEW)



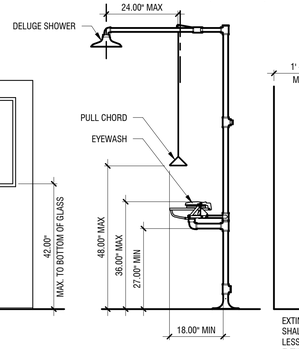
TOILET ACCESSORIES



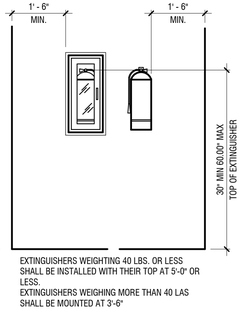
RESTROOM ACCESSORIES



ACCESSIBLE DOOR

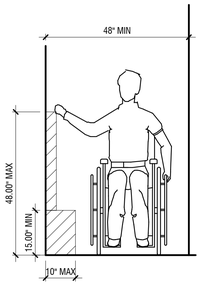


EYE WASH

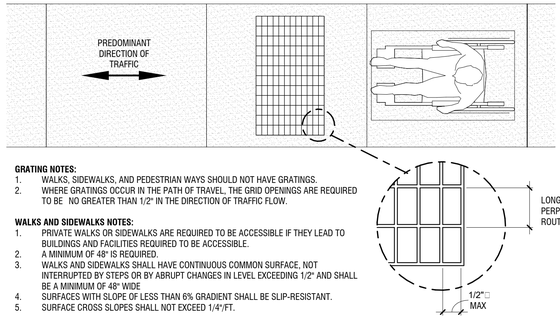


EXTINGUISHERS WEIGHTING 40 LBS. OR LESS SHALL BE INSTALLED WITH THEIR TOP AT 5'-0" OR LESS.
EXTINGUISHERS WEIGHING MORE THAN 40 LAS SHALL BE MOUNTED AT 3'-6"

FIRE EXTINGUISHER CABINET



WHEELCHAIR UNOBSTRUCTED SIDE REACH



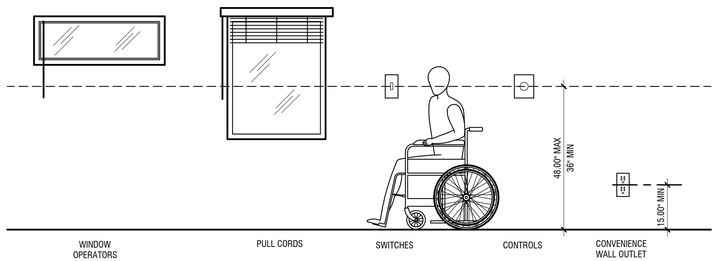
GRATING NOTES:
1. WALKS, SIDEWALKS, AND PEDESTRIAN WAYS SHOULD NOT HAVE GRATINGS.
2. WHERE GRATINGS OCCUR IN THE PATH OF TRAVEL, THE GRID OPENINGS ARE REQUIRED TO BE NO GREATER THAN 1/2" IN THE DIRECTION OF TRAFFIC FLOW.

WALKS AND SIDEWALKS NOTES:
1. PRIVATE WALKS OR SIDEWALKS ARE REQUIRED TO BE ACCESSIBLE IF THEY LEAD TO BUILDINGS AND FACILITIES REQUIRED TO BE ACCESSIBLE.
2. A MINIMUM OF 48" IS REQUIRED.
3. WALKS AND SIDEWALKS SHALL HAVE CONTINUOUS COMMON SURFACE, NOT INTERRUPTED BY STEPS OR BY ABRUPT CHANGES IN LEVEL EXCEEDING 1/2" AND SHALL BE A MINIMUM OF 48" WIDE
4. SURFACES WITH SLOPE OF LESS THAN 6% GRADIENT SHALL BE SLIP-RESISTANT.
5. SURFACE CROSS SLOPES SHALL NOT EXCEED 1/4"/FT.

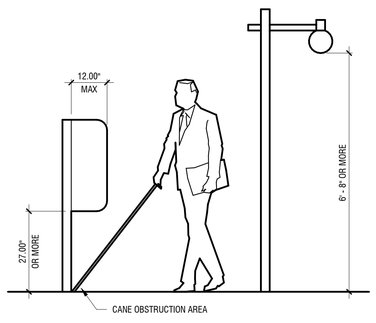
GRATING REQUIREMENTS

ACCESSIBLE CONTROL HEIGHT NOTES:
1. ELECTRICAL CONVENIENCE FLOOR OUTLETS AND BASEBOARD ELECTRICAL OUTLETS USED IN MOVABLE PARTITIONS OR WINDOW WALLS ARE NOT SUBJECT TO THE MINIMUM HEIGHT REQUIREMENTS.
2. HEIGHTS SHOWN ARE TO OPERABLE PART OF THE DEVICES.

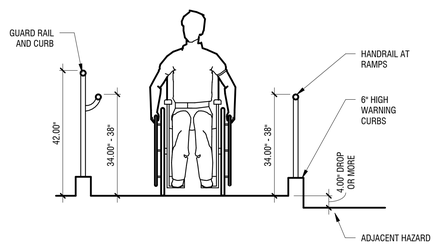
FLOOR NOTES:
1. BUILDING SHALL BE ONE COMMON FLOOR LEVEL THROUGHOUT, UNLESS VARYING LEVELS ARE PROVIDED WITH CONFORMING RAMPS OR LIFTS
2. ALL FLOORS SHALL BE SLIP RESISTANT
3. ALL THRESHOLDS SHALL BE 1/2" HIGH MAXIMUM



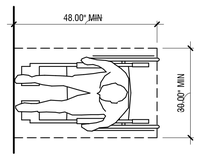
ACCESSIBLE CONTROL HEIGHTS



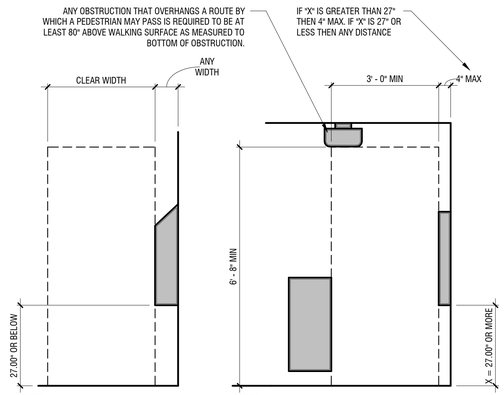
EXTERIOR HAZARDS



WARNING CURB



WHEELCHAIR CLEARANCE TYPICAL
(PLAN VIEW)



NOTES:
1. OBJECTS WITH THEIR LEADING EDGES WITHIN 27" OF WALK MAY PROTRUDE ANY DISTANCE, BUT MAY NOT REDUCE THE REQUIRED CLEAR SPACE.

NOTES:
1. OBJECTS WITH THEIR LEADING EDGES WITHIN 27" AND 80" FROM WALK CANNOT PROTRUDE MORE THAN 4" INTO WALKS AND HALLS.
2. FREE STANDING OBJECTS ON POSTS OR PYLONS MAY OVERHANG 12".
3. WALKS, HALLS, CORRIDORS, PASSAGEWAYS, AISLES OR OTHER CIRCULATION SPACE SHALL HAVE 80" MINIMUM CLEAR HEAD ROOM.

OBSTRUCTIONS

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

REGISTERED ARCHITECT
Timothy W. Mehlhaff
License Number 9967
5/08/2026
STATE OF ARKANSAS

A NEW BUILDING FOR THE ROGERS FACILITIES DEPARTMENT

2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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GENERAL INFORMATION

A0.1

BID SET
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SITE PLAN: KEYNOTE LEGEND

1	SITE LIGHTING, REF ELEC.
2	MOTORIZED SLIDING GATE W/ ACCESS CONTROL, MATCH EXIST. FENCING
3	PERSONNEL GATE W/ ACCESS CONTROL, MATCH EXIST. FENCING
4	MECHANICAL EQUIPMENT, REF MECH.
5	TRANSFORMER, REF ELEC.
6	GENERATOR, REF ELEC.
7	MECHANICAL EQUIPMENT, REF MECH.

TOTAL PARKING: **35 SPACES**
EXISTING SPOTS: 0 SPACES
NEW PARKING SPOTS: 35 SPACES

ADA PARKING
(1 PER 25, FIRST 100) 2 EXISTING ADA PARKING SPOTS

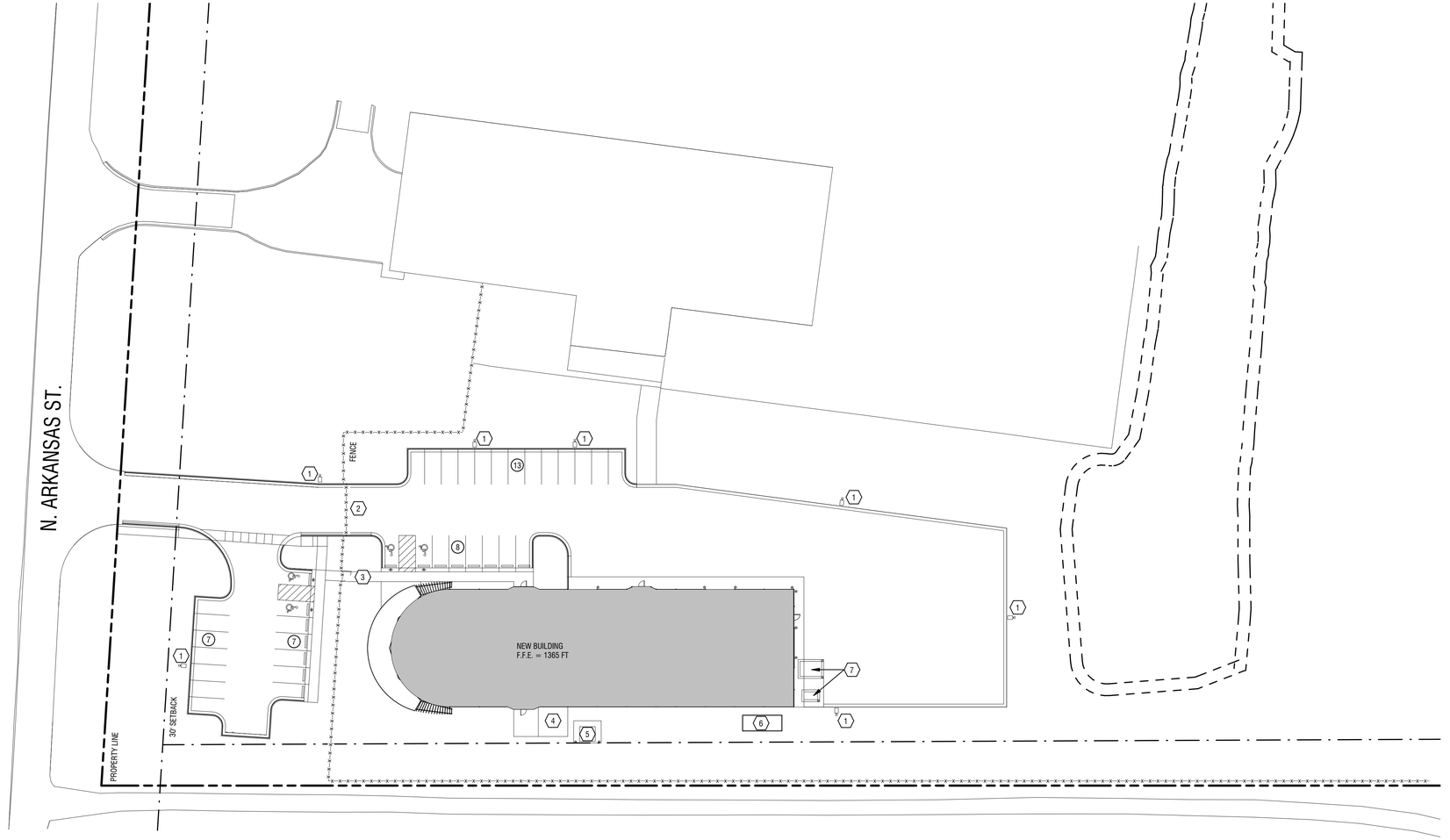
REQUIRED: 2 SPACES
PROVIDED: 4 SPACES

VAN ACCESSIBLE
(1 PER 6 ADA SPACES)

REQUIRED: 1 SPACE
PROVIDED: 1 SPACES

GENERAL NOTES

1. PROVIDE EXPANSION JOINTS WHERE NEW AND EXISTING CONCRETE JOIN.
2. BROOM FINISH AT NEW EXTERIOR CONCRETE PAVING UNO.
3. NEW CONCRETE SLOPES MAY NOT EXCEED 2%, ALL SPOT ELEVATIONS ARE APPROXIMATE. CONTRACTOR TO LAY OUT SLAB AND SIDEWALKS TO DETERMINE FINAL RESULTING SLOPES AND ALERT ARCHITECT OF ANY DISCREPANCIES PRIOR TO CONCRETE POUR.
4. ARCHITECTURAL SITE PLAN IS FOR REFERENCE & COORDINATION. THE CONTRACTOR/OWNER SHALL VERIFY/COORDINATE ALL SITE INFORMATION IN THESE DOCUMENTS WITH THE CIVIL ENGINEERING DRAWINGS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO THE START OF ANY WORK.



1 A0.2 ARCHITECTURAL SITE PLAN
1/32" = 1'-0"

REGISTERED ARCHITECT
Timothy W. Mehlhaff
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5/08/2026
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ARCHITECTURAL
SITE PLAN & NOTES

A0.2

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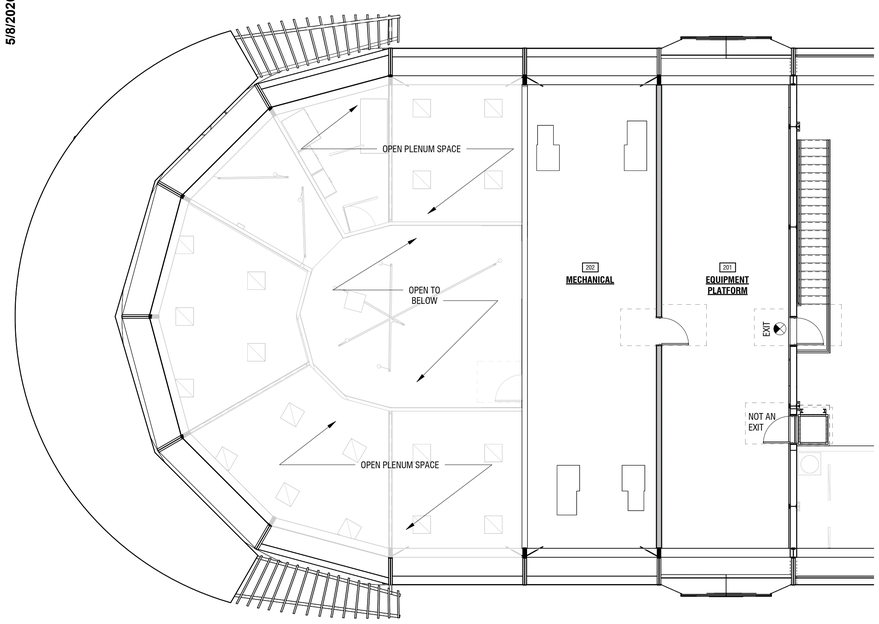


2 A0.3 EQUIPMENT PLATFORM LIFE SAFETY PLAN
1/8" = 1'-0"

N

BUILDING INFORMATION

BUILDING CODES:

BUILDING:	2021 ARKANSAS FIRE PREVENTION CODE VOL. II
PLUMBING:	2018 ARKANSAS PLUMBING CODE
GAS:	2018 ARKANSAS GAS CODE
ELECTRICAL:	2020 NATIONAL ELECTRICAL CODE
MECHANICAL:	2021 ARKANSAS MECHANICAL CODE
FIRE:	2021 ARKANSAS FIRE PREVENTION CODE VOL. I
ENERGY:	2014 ARKANSAS ENERGY CODE
LIFE SAFETY	2021 NFPA AW REFERENCED BY 2021 ARKANSAS FIRE PREVENTION CODE.
ACCESSIBILITY	2009 ANSI A117.1

LOCAL FIRE DEPARTMENT

FIRE CHIEF:	WILLIAM HYDE
ADDRESS:	201 N 1ST ST, ROGERS, AR 72705
PHONE:	(479) 621-1179
EMAIL:	whyde@rogersar.gov

USE & OCCUPANCY CLASSIFICATION:

BUSINESS GROUP	(B):	CIVIC ADMINISTRATION	SECTION 304
STORAGE GROUP	(S-1):	ACCESSORY STORAGE SPACES	SECTION 311

OCCUPANT LOAD:

ACCESSORY STORAGE AREAS, MECHANICAL EQUIPMENT ROOM	4,148 SF / 300 GROSS = 14	SECTION 1004
BUSINESS AREA	7,467 SF / 150 GROSS = 50	SECTION 1004
TOTAL OCCUPANT LOAD = 64		

CONSTRUCTION TYPE:

TYPE:	IIB, NON-SPRINKLERED	TABLE 601
PROTECTED OR UNPROTECTED:	UNPROTECTED	

ACCESSORY OCCUPANCIES:

B TO S-1	N/A = MORE THAN 10%	SECTION 508.2

SEPARATED USES:

B TO S-1	0 HOURS = NO SEP. REQ.	TABLE 508.4

ALLOWABLE HEIGHT & BUILDING AREA (TABLE 503):

MAXIMUM BUILDING HEIGHT:	(B)	55'-0"	TABLE 504.3
	(S-1)	55'-0"	
MAXIMUM NUMBER OF FLOORS:	(B)	3	TABLE 504.4
	(S-1)	2	
ACTUAL BUILDING HEIGHT:		30'-2 1/4"	
ALLOWABLE AREA PER FLOOR:	(B)	23,000 SF.	TABLE 506.2
	(S-1)	17,500 SF.	
FIRE AREA MAX:	(S-1)	12,000 SF.	SECTION 903.2.9
ACTUAL SQUARE FOOTAGE	(B)	7,467 SF.	
	(S-1)	4,148 SF.	
TOTAL ACTUAL SQUARE FOOTAGE		11,615 SF.	

FIRE RESISTANCE AND PROTECTION REQUIREMENTS

FIRE RESISTANCE REQUIREMENTS FOR BUILDING ELEMENTS (TABLE 601)

FIRE WALLS	(B) = 3-HR (TYPE II-B = 2 HR)	TABLE 706.4
PRIMARY STRUCTURAL FRAME	0-HR / NON-COMBUSTIBLE	TABLE 601
EXTERIOR BEARING WALLS	0-HR / NON-COMBUSTIBLE	TABLE 601
INTERIOR BEARING WALLS	0-HR / NON-COMBUSTIBLE	TABLE 601
EXTERIOR NON-BEARING WALLS / PARTITIONS	(B)=<5:(1) 5-10:(1) 10-30:(0) >30:(0)	TABLE 602
INTERIOR NON-BEARING WALLS / PARTITIONS	0-HR / NON-COMBUSTIBLE	TABLE 601
FLOOR CONSTRUCTION	0-HR / NON-COMBUSTIBLE	TABLE 601
ROOF CONSTRUCTION	0-HR / NON-COMBUSTIBLE	TABLE 601

FIRE RATING FOR EXTERIOR WALL MAX. OPENINGS

>30' UNPROTECTED	NOT REQUIRED	TABLE 705.8

OCCUPANCY AND USE FIRE RATINGS

	TYPE	HOURLY	OPENING	
SHAFT ENCLOSURE	BARRIER	1 HR (<4)	1 HR	SECTION 713
INTERIOR STAIRS / RAMPS	BARRIER	1 HR (<4)	1 HR	SECTION 1022
EXIT ACCESS STAIRS	BARRIER	1 HR (<4)	1 HR	SECTION 1099.3
CORRIDORS	PARTITION	0 HR (<30)	0 HR (<30)	SECTION 1018
STORAGE	PARTITION	N/R (B)	N/R (B)	SECTION 508.4

LIFE SAFETY:

SPINKLER REQUIREMENTS:	NON-SPRINKLERED	SECTION 903
STANDPIPE	NOT REQUIRED	SECTION 905.3.1
PORT. FIRE EXTINGUISHERS: (NFPA 10)	REQUIRED	SECTION 906.1
CLASS A (LIGHT):	MIN. 2-A / 3,000 SF/A / 11,250 SF PER EXT. / 75' MAX. TD	
CLASS A (MOD):	MIN. 2-A / 1,500 SF/A / 11,250 SF PER EXT. / 75' MAX. TD	
HEAT DETECTORS:		SECTION 907.2
MANUAL FIRE ALARM: (NFPA 72)	(B) > 500 OCC.	SECTION 907.2
SMOKE DETECTORS: (NFPA 72)		SECTION 907.2
SMOKE ALARMS: (NFPA 72)		SECTION 907.2
EMERGENCY VOICE ALARM: (NFPA 72)		SECTION 907.5.2.2
EMERGENCY POWER	REQUIRED	SECTION 2702
EMERGENCY LIGHTING	REQUIRED	SECTION 1006
SMOKE & HEAT VENTS	NOT REQUIRED	SECTION 910
ALARMS:	AUDIBLE / VISUAL REQUIRED	SECTION 907.5

ENERGY CODE REQUIREMENTS: CLIMATE ZONE 3A

ROOF (INSULATION ENTIRELY ABOVE ROOF DECK):	N/A
WALLS (METAL FRAMED):	N/A
SLAB (UNHEATED):	NR
OPAQUE ENTRY DOORS:	U-0.70
GLAZED ENTRY DOORS:	U-0.85
WINDOWS / FIXED GLASS:	U-0.50
ALL EXTERIOR GLASS:	U-0.55

INTERIOR ENVIRONMENTS

INTERIOR FINISH REQUIREMENTS (TABLE 803.9)

	VERTICAL	EXIT CORRIDOR	ROOMS
CLASS OF FINISHES: (B)	A NON SPKL	B NON SPKL	C NON SPKL
CLASS OF FINISHES: (S)	A NON SPKL	A NON SPKL	C NON SPKL

MEANS OF EGRESS REQUIREMENTS

EGRESS REQUIREMENTS

MAX TRAVEL DISTANCE:	(B)=200' (NON SPRINKLERED)	TABLE 1016.2
MAX DEAD END CORRIDOR:	(B)=20' (NON SPRINKLERED)	SECTION 1018.4
COMMON PATH OF TRAVEL:	(B)=100' (NON SPRINKLERED)	TABLE 1014.3
EGRESS CAPACITY:		
LEVEL & OTHER COMPONENTS	.20" / .15" W / SPKL	SECTION 1005.3.2.
STAIRS	.30" / .20" W / SPKL	SECTION 1005.3.1.
MIN. CORRIDOR	44" MIN.	TABLE 1020.3
MIN. CLEAR DOOR WIDTH	32" MIN. 48" MAX. SINGLE DOOR	SECTION 1008.1
MIN. STAIR WIDTH	44" OR 48" IF PART OF EGRESS	SECTION 1005.3.1
NUMBER OF EXITS:		
FOR ONE EXIT:		
MAX NO. OCCUPANTS	(B)=49 OCC.	TABLE 1006.2.1
MAX. TRAVEL DISTANCE	(B)=75'	TABLE 1006.2.1
MAX NO. OCCUPANTS	(S)=29 OCC.	TABLE 1006.2.1
MAX. TRAVEL DISTANCE	(S)=100' (IF ≤ 30 OL)	TABLE 1006.2.1

STAIR CONSTRUCTION

CONSTRUCTION TYPE	NON-COMBUSTIBLE	SECTION 1009.9
MAX. RISE PER FLIGHT	12'-0"	SECTION 1009.10
MAX. RISER HEIGHT	7"	SECTION 1009.7
OPEN RISER NOT PERMITTED		
MIN. TREAD	11"	SECTION 1009.7
FORMULA	2R + T = 24" TO 25"	
MIN. NUMBER OF RISERS	N/A	
HANDRAIL PROJECTION	4 1/2"	SECTION 1012.8
HANDRAIL HEIGHT	34" - 38"	SECTION 1012.2
GUARDRAIL HEIGHT	42"	SECTION 1013.3
MIN. LANDING WIDTH	44"	SECTION 1009.8
HANDRAIL GRASPABILITY	1 1/4" - 2"	SECTION 1012.3
SMOKEPROOF ENCLOSURE	NOT REQUIRED	SECTION 1022.9

ACCESSIBILITY

TOILET REQUIREMENTS

STALL DIMENSIONS	60"x60"
STALL DOOR	32"
CLEARANCE IN FRONT OF STALL	42"
TURNAROUND	67" W/IN TOILET ROOM
MAX. COUNTER HEIGHT	34"
MINIMUM CLEARANCE UNDER COUNTER	27"

RAMPS

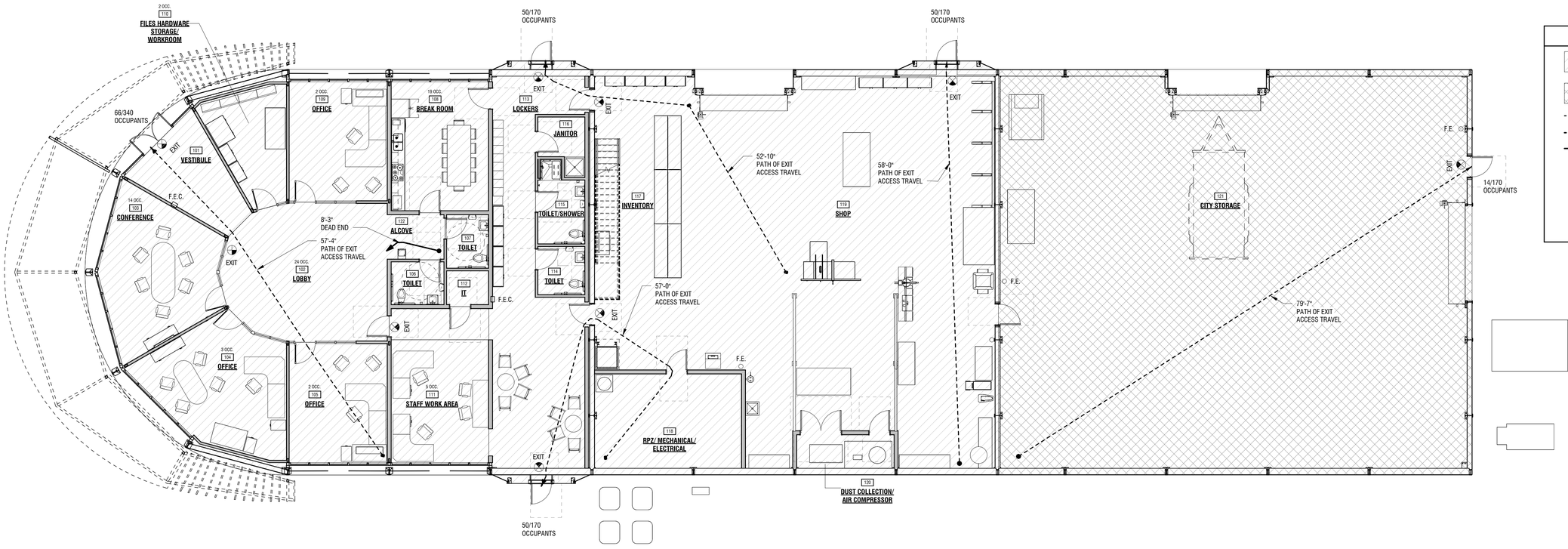
MAXIMUM DIFFERENCE IN ELEVATION	30"
MAXIMUM SLOPE	1:12
HANDRAILS:	
REQUIRED	OVER 6"
HEIGHT	34" TO 38"

PLUMBING REQUIREMENTS

OCCUPANTS: BUSINESS (GROSS FLOOR AREA) = 77 PERSONS

FIXTURES:

	(B) REQUIRED PER OCC.	PROVIDED
WATER CLOSETS	1 PER 25(50) / 1/50 AFTER = 3	4
URINALS	-	
LAVATORIES	1 PER 40(80) 1/80 AFTER = 2	4
SHOWERS	-	1
DRINKING FOUNTAINS	1 PER 100 = 1	1
SERVICE SINK	1	1



LEGEND: LIFE SAFETY PLAN

- B, BUSINESS (OFFICES)
- S-1, STORAGE
- PATH OF EXIT ACCESS TRAVEL
- COMMON PATH OF TRAVEL
- DEAD END TRAVEL
- F.E.C. FIRE EXTINGUISHER CABINET
- F.E. FIRE EXTINGUISHER W/ BRACKET
- EXIT SIGN
- EXIT/EMERGENCY LIGHT
- EMERGENCY LIGHT

1 A0.3 LIFE SAFETY PLAN
1/8" = 1'-0"

N

REGISTERED ARCHITECT
Timothy W. Mehlhaff
License Number 9967
5/08/2026
STATE OF ARKANSAS

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE ROGERS FACILITIES DEPARTMENT

2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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LIFE SAFETY PLAN & NOTES

A0.3

BID SET
5/08/2026
62425

ROGERS FACILITIES DEPARTMENT

2295 N ARKANSAS ST
ROGERS, ARKANSAS
SITE DEVELOPMENT PLANS
SDP26-0181

NOT FOR CONSTRUCTION

LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY/LEASE LINE
- PROP. BUILDING SETBACK
- UTILITY EASEMENT
- BENCHMARK
- EXIST. SIGN OR UTILITY MARKER
- EXIST. SANITARY SEWER MANHOLE
- EXIST. STORM DRAIN MANHOLE
- EXIST. LIGHT POLE
- EXIST. ELECTRIC CABINET
- EXIST. TRANSFORMER
- EXIST. WATER METER
- EXIST. FIBER OPTIC BOX
- EXIST. FIBER OPTIC VAULT
- EXIST. ELECTRIC METER
- EXIST. ELECTRIC RISER
- EXIST. GRATE INLET
- EXIST. GUY WIRE
- EXIST. POWER POLE
- EXIST. POWER POLE W/ LIGHT
- EXIST. STEEL POST
- EXIST. TELEPHONE RISER
- EXIST. TELEPHONE CABINET
- EXIST. WATER MANHOLE
- WV EXIST. WATER VALVE
- IRR EXIST. IRRIGATION VALVE
- W EXIST. WATER PIPE
- G EXIST. GAS PIPE
- SS EXIST. SANITARY PIPE
- P-OH EXIST. OVERHEAD POWER
- P-UG EXIST. UNDERGROUND POWER
- SD EXIST. STORM DRAIN PIPE
- FO EXIST. UNDERGROUND FIBER OPTIC

SITE DATA		
EXISTING USE - NON RESIDENTIAL		RECYCLING CENTER
PROPOSED USE - NON RESIDENTIAL		RECYCLING CENTER / FACILITIES
EXISTING ZONING		I-2 - LARGE FORMAT INDUSTRIAL
PROPOSED ZONING		I-2 - LARGE FORMAT INDUSTRIAL
PARCEL NUMBER		02-00037-002
TOTAL LAND AREA		±22.81 ACRES ±993,725 SF
MAX BUILDING HEIGHT		55'-0" / 3 STORIES
PROPOSED BUILDING HEIGHT		30'-2 $\frac{3}{4}$" / 1 STORY
MAX BUILDING COVERAGE		26,833 SF (70%)
EXISTING BUILDING GROSS FLOOR AREA		18,896 SF
TOTAL PROPOSED GROSS FLOOR AREA		11,715 SF
TOTAL ENTRANCES / SERVICE ENTRANCES		7
PROPOSED PARKING	STANDARD	31 STALLS
	ADA	4 STALLS
	TOTAL	35 STALLS
	ON-STREET	NONE
PAVEMENT/PARKING/SIDEWALK AREA		34,124 SF (3.4%)
TOTAL IMPERVIOUS AREA		45,993 SF (4.6%)
TOTAL PERVIOUS AREA		947,732 SF (95.4%)

BUILDING SETBACKS (ZONE I-2)	
MINIMUM EXTERIOR YARD	30'
MAXIMUM EXTERIOR YARD	20'
MINIMUM INTERIOR YARD	20'

REVIEW OF THESE PLANS IS LIMITED TO COMPLIANCE WITH CITY CODES AND REGULATIONS. BY REVIEWING AND APPROVING THESE PLANS THE REVIEWER AND THE CITY OF ROGERS ASSUME NO RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE PLANS. THE ADEQUACY OF THE PLANS IS THE SOLE RESPONSIBILITY OF THE DESIGN ENGINEER. THE CITY OF ROGERS, HOWEVER, RESERVES THE RIGHT TO REQUIRE CORRECTIVE ACTION IF ANY INADEQUACIES ARE FOUND AFTER THE IMPROVEMENTS ARE CONSTRUCTED.

FLOOD NOTE:

THE FLOOD INSURANCE RATE MAP (FIRM) FROM THE FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) COMMUNITY PANEL NO. 05007C0280K, EFFECTIVE DATE 06/05/2012, SHOWS THIS PROPERTY IS LOCATED IN ZONE "X" (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.)

ABBREVIATIONS

M.G.	MATCH GRADE
PVMT.	PAVEMENT
TC	TOP OF CURB
EP	EDGE OF PAVEMENT
G	GUTTER
EL.	ELEVATION
R/W	RIGHT-OF-WAY
ROW	RIGHT-OF-WAY
TCE	TEMPORARY CONSTRUCTION EASEMENT
ESMT.	EASEMENT
PROP.	PROPOSED
EXIST.	EXISTING
TYP.	TYPICAL
(R)	REMOVAL
CONST.	CONSTRUCT
TBM	TEMPORARY BENCHMARK
C.P.	CONTROL POINT
D.N.D.	DO NOT DISTURB
U.I.P.	USE IN PLACE
CONC.	CONCRETE
AGG.	AGGREGATE
N.T.S.	NOT TO SCALE
B-B	BACK OF CURB TO BACK OF CURB
F-F	FACE OF CURB TO FACE OF CURB

SECTION 6, T-19-N, R-29-W
BENTON COUNTY, ARKANSAS

VICINITY MAP

NOT TO SCALE

LEGAL DESCRIPTION

PART OF THE FRACTIONAL NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 29 WEST AND PART OF THE FRACTIONAL SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 29 WEST CITY OF ROGERS, BENTON COUNTY, ARKANSAS

DESIGN CONTACTS

OWNER
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AT&T
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THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE BASED ON THE BEST INFORMATION AVAILABLE AND MAY NOT REFLECT ALL EXISTING UTILITIES IN THE PROJECT AREA. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE UTILITY COMPANIES FOR LOCATING EXISTING UTILITIES PRIOR TO CONSTRUCTION AND FOR PROTECTION OF SERVICES DURING CONSTRUCTION.

Arkansas 811 Know what's below. Call before you dig.

Sheet List Table	
SHEET NUMBER	SHEET TITLE
C0.0	COVER SHEET
C0.1	BOUNDARY & TOPOGRAPHIC SURVEY COVER
C0.2	BOUNDARY & TOPOGRAPHIC SURVEY
C1.0	LAND DEVELOPMENT PLAN
C1.1	DIMENSION PLAN I
C1.2	SITE PLAN I
C1.3	SITE PLAN II
C2.0	GRADING PLAN
C2.1	DETENTION POND PLAN
C3.0	UTILITY PLAN
C3.1	STORM PLAN AND PROFILE I
C3.2	STORM PLAN AND PROFILE II
C4.0	PUBLIC WATER PLAN AND PROFILE
C4.1	PUBLIC SANITARY PLAN AND PROFILE
C5.0	ERC PLAN PH1
C5.1	ERC PLAN PH2
C5.2	EROSION CONTROL DETAILS
C7.0	DETAIL SHEET 1
C7.1	DETAIL SHEET 2
C7.2	DETAIL SHEET 3
C7.3	DETAIL SHEET 4
C7.4	DETAIL SHEET 5
C7.5	DETAIL SHEET 6
C7.6	DETAIL SHEET 7
L1.0	OVERALL PLANTING PLAN
L1.1	PLANTING PLAN I
L1.2	PLANTING PLAN II
L2.0	LANDSCAPE DETAILS
A1.1	FIRST FLOOR PLAN
A2.1	EXTERIOR ELEVATIONS
A9.1	3D VIEWS
A9.2	3D VIEWS
P1.1	PHOTOMETRICS

GENERAL NOTES:

1. ACCORDING TO THE NATIONAL WETLANDS INVENTORY, NO WETLANDS OR AREAS OF INTEREST ARE LOCATED WITHIN THE PROJECT BOUNDARY.
2. NO KNOWN EROSION PROBLEMS ON-SITE OR WITHIN 100' DOWNSTREAM OF THE PROJECT SITE.
3. NO KNOWN DANGEROUS AREAS OR HAZARDS PRESENT ON PROJECT SITE.
4. IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO INCLUDE ALL ITEMS REQUIRED BY ORDINANCE. IF APPROVED PLANS CONFLICT WITH ORDINANCE REQUIREMENTS, THE ORDINANCE TAKES PRECEDENCE UNLESS A WAIVER OR VARIANCE HAS BEEN GRANTED.
5. SITE DEVELOPMENT PLAN APPROVAL LAPSES AND HAS NO FURTHER EFFECT IF GRADING OR CONSTRUCTION PERMITS ARE NOT OBTAINED AND WORK AUTHORIZED BY SUCH PERMITS HAS NOT COMMENCED WITHIN ONE YEAR OF THE DATE OF APPROVAL.
6. STOCKPILES WITH EXCESS CONSTRUCTION SITE MATERIALS, INCLUDING BUT NOT LIMITED TO EXCESS TOP SOIL STOCKPILES, MUST BE REMOVED FROM SITE PRIOR TO PROJECT COMPLETION. GRADING BEYOND THE APPROVED LIMITS IS PROHIBITED.
7. CHANNELS, DETENTION PONDS, RETENTION PONDS, SEDIMENT BASINS, ETC. REQUIRE SOD TO THE 100-YEAR WATER SURFACE ELEVATION WITHIN 2-WEEKS (14-DAYS) AFTER THE POND I BUILT, AND MUST BE INSTALLED AT THE BEGINNING OF THE PROJECT WHERE FEASIBLE.
8. PUBLIC STREETS SHALL HAVE 20-FT OF DRIVABLE SURFACE FOR TWO-WAY TRAFFIC. THIS DOES NOT INCLUDE THE CURB AND GUTTER AND IS MEASURED FROM EDGE OF ASPHALT TO EDGE OF ASPHALT.
9. WHERE PUBLIC STREETS END FOR FUTURE STUB OUTS, INSTALL MUTCD CLASS 3 BARRICADE WITH "FUTURE ROAD EXTENSION" SIGN CENTERED AT THE END OF THE RIGHT-OF-WAY PER THE CITY OF ROGERS DETAIL
10. WHERE PUBLIC SIDEWALKS, TRAILS, OR SIDEPATHS END, INCLUDE "SIDEWALK ENDS" SIGN PER THE CITY OF ROGERS DETAIL.

PREPARED & SUBMITTED BY

CERTIFICATE OF AUTHORIZATION Olsson Inc. No.1010 ARKANSAS ENGINEER

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Arkansas COA #1010

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE
ROGERS FACILITIES DEPARTMENT
2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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COVER SHEET

C0.0

BID SET
05/04/2026 025-04961

Boundary & Topographic Survey

PART OF THE FRACTIONAL NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 29 WEST AND PART OF THE FRACTIONAL SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 29 WEST CITY OF ROGERS, BENTON COUNTY, ARKANSAS

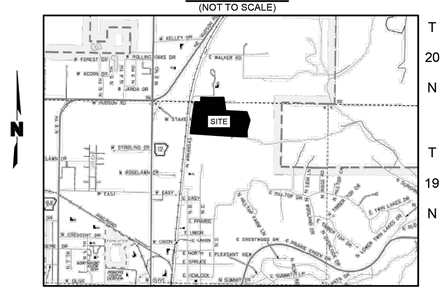
LEGEND:

- CONTROL POINT
- SECTION CORNER
- FOUND MONUMENT (AS NOTED)
- SET MONUMENT (AS NOTED)
- ROW RIGHT-OF-WAY
- CPT CONTROL POINT
- POC POINT OF COMMENCEMENT
- POB POINT OF BEGINNING
- BOUNDARY LINE
- EASEMENT LINE
- SECTION LINE
- ROW RIGHT-OF-WAY LINE

CONTROL POINT TABLE

POINT #	NORTHING	EASTING	ELEVATION	FULL DESCRIPTION
100	742381.79	690306.20	1360.14	1/2" REBAR W/ CONTROL CAP
101	741840.00	690583.15	1365.87	1/2" REBAR W/ CONTROL CAP
102	741938.36	690216.02	1361.64	1/2" REBAR W/ CONTROL CAP
103	742033.27	690829.46	1357.02	1/2" REBAR W/ CONTROL CAP
104	741716.76	690737.86	1362.37	1/2" REBAR W/ CONTROL CAP
105	741721.25	690127.59	1360.98	1/2" REBAR W/ CONTROL CAP

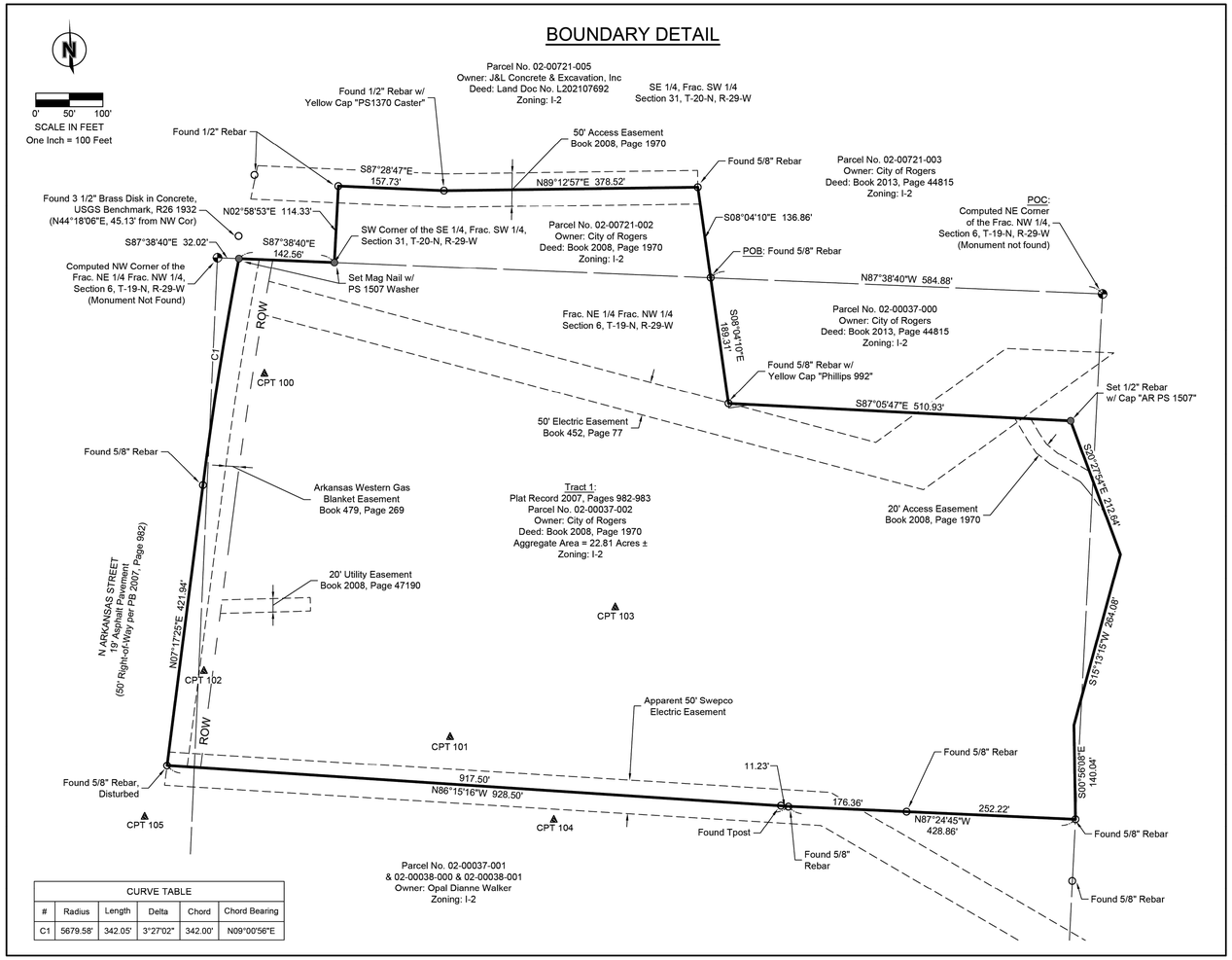
LOCATION MAP
(NOT TO SCALE)



SHEET INDEX

SHEET 1: TITLE SHEET & OVERALL BOUNDARY
SHEET 2: TOPOGRAPHIC DRAWING

BOUNDARY DETAIL



CURVE TABLE					
#	Radius	Length	Delta	Chord	Chord Bearing
C1	5679.58'	342.05'	3°27'02"	342.00'	N09°00'56"E

Parent Tract - Warranty Deed: Book 2008, Page 1970:

A part of the Fractional Northwest Quarter of the Fractional Northeast Quarter and a part of the Fractional Northeast Quarter of the Fractional Northwest Quarter of Section 6, Township 19 North, Range 29 West and a part of the Southeast Quarter of the Fractional Southwest Quarter of Section 31, Township 20 North, Range 29 West of the Fifth Principal Meridian, Benton County, Arkansas and being described as follows: Commencing at an iron pin set for the NW Corner of the Fractional NW 1/4 of the Fractional NE 1/4 of Section 6, Township 19 North, Range 29 West; thence along the North boundary line of Section 6, North 87 degrees 38 minutes 40 seconds West 584.88 feet to the true point of beginning; thence leaving the North boundary line of Section 6, South 08 degrees 04 minutes 10 seconds East 189.31 feet to a set iron pin; thence South 87 degrees 05 minutes 47 seconds East 510.93 feet to an iron pin set in the centerline of an existing hollow, thence along the said centerline of the hollow, South 20 degrees 27 minutes 54 seconds East 212.64 feet to a set iron pin; thence along the said centerline South 15 degrees 13 minutes 15 seconds West 264.08 feet to a set iron pin; thence leaving the centerline of the existing hollow, South 00 degrees 56 minutes 08 seconds East 140.04 feet to a set iron pin in an existing fence line; thence North 87 degrees 24 minutes 45 seconds West 428.86 feet to an existing fence corner post; thence North 86 degrees 15 minutes 16 seconds West 928.50 feet to an iron pin set on the Easterly right of way line of the Arkansas and Missouri Railroad; thence along the Easterly right of way line of said railroad, North 07 degrees 17 minutes 25 seconds East 421.94 feet to a set iron pin; thence along the said Easterly right of way line and along a curve to the right with a delta angle of 03 degrees 27 minutes 02 seconds, having a radius of 5679.58 feet and an arc length of 342.06 feet, with a chord bearing and distance of North 09 degrees 00 minutes 57 seconds East 342.00 feet to a set cotton spindle in the roadway of Stave Mill Road and on the North boundary line of said Section 6; thence along the North boundary line of Section 6, South 87 degrees 38 minutes 40 seconds East 142.56 feet to an iron pin set for the SW Corner of the SE 1/4 of the Fractional SW 1/4 of Section 31, Township 20 North, Range 29 West; thence leaving the North boundary line of Section 6 and along the West boundary line of the SE 1/4 of the Fractional SW 1/4 of Section 31, Township 20 North, Range 29 West, North 02 degrees 58 minutes 53 seconds East 114.32 feet to a set iron pin; thence leaving the West boundary line of the said SE 1/4 of the Fractional SW 1/4, South 87 degrees 28 minutes 47 seconds East 157.73 feet to a set iron pin; thence North 89 degrees 12 minutes 57 seconds East 378.52 feet to a set iron pin; thence South 08 degrees 04 minutes 10 seconds East 136.86 feet to the true point of beginning and being shown as Tract 1 on plat record "2007" at pages 982 and 983 and being subject to a 20 foot wide access easement being a part of the Fractional NW 1/4 of the Fractional NE 1/4 and a part of the Fractional NE 1/4 of the Fractional NW 1/4 of Section 6, Township 19 North, Range 29 West of the Fifth Principal Meridian, Benton County, Arkansas and being described as follows: Commencing at an iron pin set for the NW Corner of the Fractional NW 1/4 of the Fractional NE 1/4 of Section 6, Township 19 North, Range 29 West; thence South 02 degrees 56 minutes 25 seconds West 191.45 feet and North 87 degrees 05 minutes 48 seconds West 109.36 feet to the true point of beginning of a 20 foot wide access easement, said easement lying 10 feet on each side of the following described centerline; thence along the centerline of an existing trail, South 30 degrees 48 minutes 45 seconds East 32.07 feet; thence along said centerline South 34 degrees 19 minutes 00 seconds East 20.72 feet; thence along the said centerline South 50 degrees 44 minutes 02 seconds East 23.94 feet; thence along the said centerline South 59 degrees 49 minutes 19 seconds East 53.53 feet; thence along the said centerline South 39 degrees 48 minutes 40 seconds East 20.51 feet; thence along the said centerline South 37 degrees 16 minutes 57 seconds East 7.59 feet to the centerline endpoint of the 20 foot wide access easement, said centerline endpoint being South 01 degrees 38 minutes 02 seconds West 294.29 feet from the NW Corner of the Fractional NW 1/4 of the Fractional NE 1/4 of said Section 6, as shown on plat record "2007 at pages 982 and 983.

Together with a shared access and utility easement being described as: A part of the South 1/2 of the Fractional SW 1/4 of Section 31, Township 20 North, Range 29 West of the Fifth Principal Meridian, Benton County, Arkansas and being described as follows: Commencing at an iron pin set for the SW Corner of the SE 1/4 of the Fractional SW 1/4 of Section 31, Township 20 North, Range 29 West; thence North 87 degrees 38 minutes 40 seconds West 142.56 feet; thence along a curve to the right with a delta angle of 00 degrees 54 minutes 57 seconds, having a radius of 5679.58 feet and an arc length of 90.77 feet, with a chord bearing and distance of North 11 degrees 11 minutes 56 seconds East 90.77 feet to the true point of beginning of a fifty foot wide access easement; thence along a curve to the right with a delta angle of 00 degrees 30 minutes 41 seconds having a radius of 5679.58 feet and an arc length of 50.68 feet, with a chord bearing and distance of North 11 degrees 54 minutes 45 seconds East 50.68 feet; thence South 87 degrees 28 minutes 47 seconds East 278.51 feet; thence North 89 degrees 12 minutes 57 seconds East 377.80 feet; thence South 00 degrees 47 minutes 03 seconds East 25.00 feet; thence South 08 degrees 04 minutes 10 seconds East 25.20 feet; thence South 89 degrees 12 minutes 57 seconds West 382.44 feet; thence North 87 degrees 28 minutes 47 seconds West 288.23 feet to the true point of beginning, and as shown on plat record "2007" at pages 982 and 983. Said access easement to be shared with Ole Bear, LLC and it's successors and assigns.

GENERAL NOTES:

1. This survey and plan is based upon the following data and/or exceptions:

	Yes	No	Item
Deed of Record	X		Book 2008, Page 1970
Filed Surveys & Plats	X		
Title Search/Binder		X	

2. Basis of Bearings: Grid North, State Plane Coordinate System, Arkansas North Zone, NAD83 (2011)(Epoch:2010.0000), based on GNSS observations using the ARDOT VRS Network. The measured Grid North bearing along the north line of the NE1/4 of the Frac. NW1/4 of Section 6 = N87°38'40"W
3. Every record document reviewed and considered as a part of this survey is noted hereon. Surveyor has not made a thorough investigation or independent search for any easements or other encumbrances or facts that an accurate, complete and current title search and/or title commitment would disclose. Other documents of record, rights, or facts may exist and affect the subject property.
4. Subsurface or environmental conditions were not examined or considered as a part of this survey.
5. All improvements, structures, utilities, wooded or open areas are not necessarily depicted hereon.
6. The locations of existing utilities are representational only and are in no way intended to show their exact locations, nor is this information to be construed as a complete inventory of all utilities at this location. Olsson and the Surveyor did not make any excavations and did not use equipment to locate the actual utilities. Olsson personnel only located the marking created by others. Lacking excavation, the exact locations of underground utilities and features cannot be accurately, completely, and reliably depicted.
7. Last Date of Field Survey: October 23, 2025
8. This survey meets current "Arkansas Standards of Practice for Property Boundary Surveys and Plats".
9. The Flood Insurance Rate Map (FIRM) from the Federal Emergency Management Agency (FEMA), Map No. 05007C0280K, Map Revised 06/05/2012, shows the subject property lies within, Zone X - Other Areas determined to be outside the 0.2% annual chance floodplain. Flood statement does not address or cover localized flooding, and any potential flood risk associated with or that may be determined from a FEMA Risk Rating 2.0 is unknown.
10. This survey or plan is made for and certified to the parties named hereon for the purpose(s) stated. No other purpose is intended nor implied. The undersigned professional is neither responsible nor liable for the use of this plan beyond its intended purpose.
11. Current Zoning: I-2: Large Format Industrial
    Principal Buildings — Zone Standards
    Min. Exterior Yard: 30 ft
    Max. Exterior Yard: None
    Min. Interior Yard: 20 ft
    Min. Interior Yard, Alleyside: 0 ft
    Max. Height (Stories): 6 Stories
    The above zoning information as reviewed in the City or Rogers UDC, Section 4.5.A Selected Zone Standards. Development may be subject to additional zoning and site development standards, not listed hereon.
12. Reference Surveys:
    12.1 Tract Split for Ole Bear, LLC, prepared by Phillips Land Surveying, Inc., & Donald R. Phillips, AR PS No. 992; filed for record in Plat Book 2007, Page 982, on 12/06/2007, Benton County, Arkansas.

PREPARED FOR
deMx Architecture
104 N East Avenue,
Fayetteville, AR 72701

PREPARED BY
Olsson, Inc.
3537 North Steele Boulevard, Suite 310
Fayetteville, AR 72703

BOUNDARY SURVEY CERTIFICATION:

I, Keith A. Sikes, do hereby declare that on this, the 14th day of November, 2025, that this survey plat represents an actual survey completed by me or under my direct supervision, and that to the best of my knowledge and belief, all monuments shown hereon actually exist, that the location, size, type, and material is correctly shown, and that this survey plat meets the current Arkansas Standards for the Practice of Property Boundary Surveys and Plats.

LICENSED PROFESSIONAL SURVEYOR — STATE OF ARKANSAS NO. 1507 — SIGNATURE — KEITH A. SIKES — 11.14.2025

Digitally Signed by K. Sikes
2025.11.14 12:33:25-06'00'
Keith A. Sikes, AR. P.S. 1507

STATE PLAT CODE: 500-19N-29W-0-06-104-04-1507
STATE PLAT CODE: 500-20N-29W-0-31-320-04-1507

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FAX 479.443.4340
Olsson - Survey
Arkansas COA #1010

CERTIFICATE OF AUTHORIZATION — Olsson Inc. No.1010 — ARKANSAS ENGINEER

REVISIONS

REV. NO.	DATE	DESCRIPTION	BY

BOUNDARY & TOPOGRAPHIC SURVEY
JAMES R WELCH, ROGERS RECYCLING CENTER

PART OF THE FRAC. NORTHWEST QUARTER, SECTION 6, T-19-, R-29-W
AND PART OF THE FRAC. SOUTHWEST QUARTER, SECTION 31, T-20-N, R-29-W

CITY OF ROGERS, BENTON COUNTY, ARKANSAS

2025

drawn by: SBR
designed by: KAS
project no.: 025-04961
date: 11.14.2025

SHEET
C0.1

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DATE: Nov 14, 2025 12:27pm USER: ksikes

Boundary & Topographic Survey

PART OF THE FRACTIONAL NORTHWEST QUARTER OF
SECTION 6, TOWNSHIP 19 NORTH, RANGE 29 WEST
AND PART OF THE FRACTIONAL SOUTHWEST QUARTER OF
SECTION 31, TOWNSHIP 20 NORTH, RANGE 29 WEST
CITY OF ROGERS, BENTON COUNTY, ARKANSAS

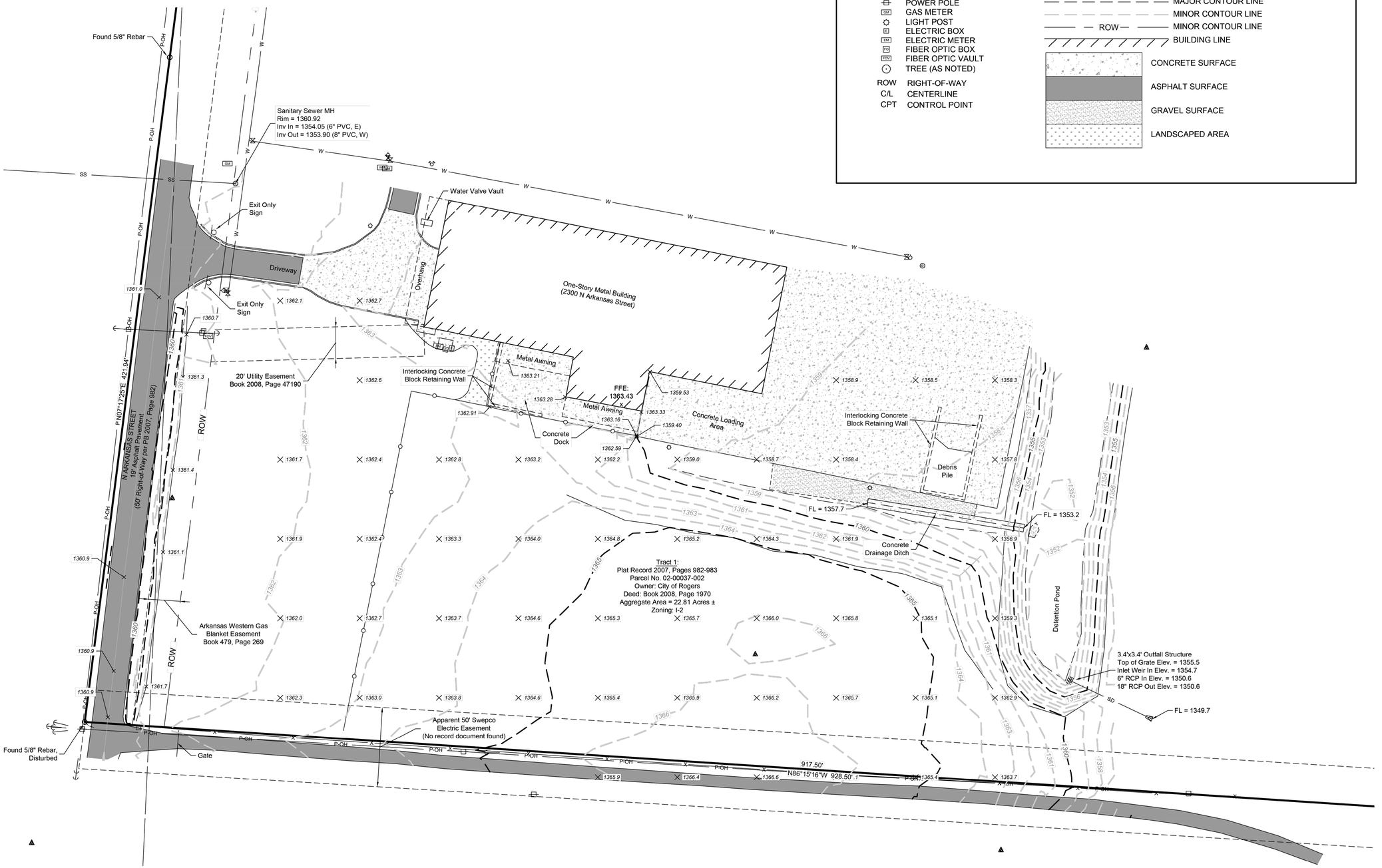
0' 15' 30' 60'
SCALE IN FEET
One Inch = 30 Feet

BASIS OF BEARINGS
Grid North, State Plane Coordinate System,
NAD83, Arkansas North Zone

LEGEND:

- CONTROL POINT
- SECTION CORNER
- FOUND MONUMENT (AS NOTED)
- WATER VALVE
- FIRE HYDRANT
- SIGN (AS NOTED)
- SANITARY MANHOLE
- DRAINAGE INLET
- FLARED END SECTION
- WM WATER METER
- GUY ANCHOR
- POWER POLE
- GM GAS METER
- LIGHT POST
- ELECTRIC BOX
- EM ELECTRIC METER
- FO FIBER OPTIC BOX
- FOV FIBER OPTIC VAULT
- TREE (AS NOTED)
- ROW RIGHT-OF-WAY
- C/L CENTERLINE
- CPT CONTROL POINT

- BOUNDARY LINE
- EASEMENT LINE
- SECTION LINE
- W UNDERGROUND STORM WATER LINE
- SS UNDERGROUND SANITARY SEWER LINE
- SD UNDERGROUND STORM SEWER LINE
- P-OH OVERHEAD POWER LINE
- CHAINLINK FENCE
- X BARBED WIRE FENCE
- MAJOR CONTOUR LINE
- MINOR CONTOUR LINE
- ROW MINOR CONTOUR LINE
- BUILDING LINE
- CONCRETE SURFACE
- ASPHALT SURFACE
- GRAVEL SURFACE
- LANDSCAPED AREA



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Arkansas COA #1010

LICENSED PROFESSIONAL ENGINEER
STATE OF ARKANSAS
NO. 1507
SIGNATURE
KEITH A. SIMS
11.14.2025

REV. NO.	DATE	DESCRIPTION	BY

REVISIONS

BOUNDARY & TOPOGRAPHIC SURVEY
JAMES R WELCH, RECYCLING CENTER

PART OF THE FRAC. NORTHWEST QUARTER, SECTION 6, T-19-, R-29-W
AND PART OF THE FRAC. SOUTHWEST QUARTER, SECTION 31, T-20-N, R-29-W

CITY OF ROGERS, BENTON COUNTY ARKANSAS

2025

drawn by: SBR
designed by: KAS
project no.: 025-04961
date: 11.14.2025

SHEET
C0.2

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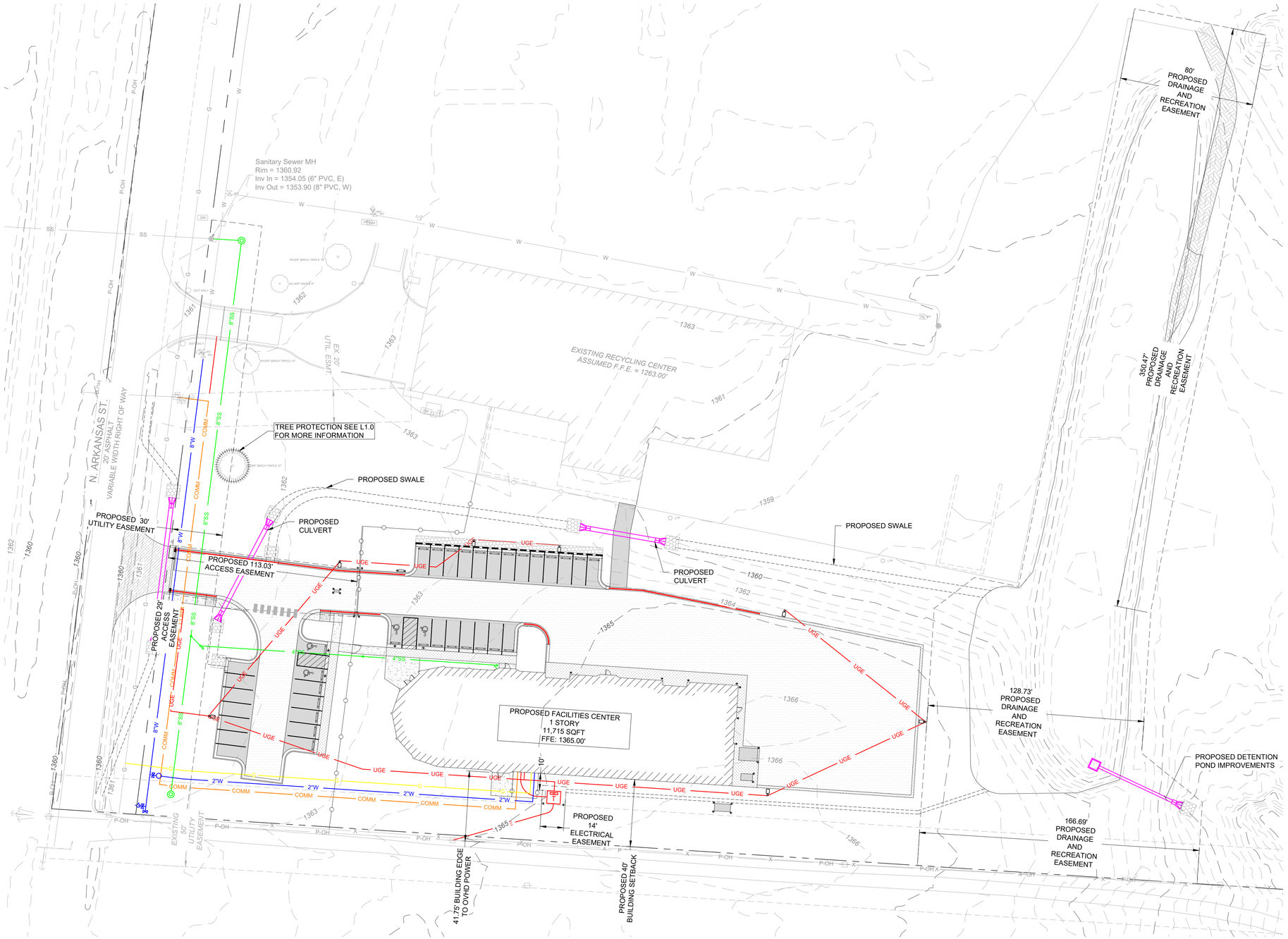

KEYNOTES:

NOTE: REFER TO SITE PLAN SHEET, C1.2, FOR DETAILED SITE FEATURES

LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
- SD — EXISTING STORM LINE
- SS — EXISTING SANITARY SEWER LINE
- P-OH — EXISTING OVERHEAD ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS PIPE
- BENCHMARK
- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- WM — EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- WV — EXISTING WATER VALVE
- EXISTING HYDRANT
- PROPOSED FIRE LANE STRIPING
- LOD — PROPOSED LIMITS OF DISTURBANCE
- PROPOSED FENCE
- PROPOSED STORM LINE
- 8"SS — PROPOSED PUBLIC SANITARY LINE
- 4"SS — PROPOSED SANITARY LATERAL
- 12"W — PROPOSED PUBLIC WATER MAIN
- 2"W — PROPOSED PRIVATE WATER SERVICE
- UGE — UGE — PROPOSED ELECTRICAL LINE
- G — PROPOSED GAS LINE
- COMM — COMM — PROPOSED COMMUNICATIONS LINE
- PROPOSED STORM STRUCTURE
- PROPOSED FLARED END SECTION
- PROPOSED PUBLIC SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED WATER METER
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED TRANSFORMER
- PROPOSED LIGHT POLE

SITE DATA		
EXISTING USE - NON RESIDENTIAL		RECYCLING CENTER
PROPOSED USE - NON RESIDENTIAL		RECYCLING CENTER / FACILITIES
EXISTING ZONING		I-2 - LARGE FORMAT INDUSTRIAL
PROPOSED ZONING		I-2 - LARGE FORMAT INDUSTRIAL
PARCEL NUMBER		02-00037-002
TOTAL LAND AREA		±22.81 ACRES ±993,725 SF
MAX BUILDING HEIGHT		55'-0" / 3 STORIES
PROPOSED BUILDING HEIGHT		30'-2 ¼" / 1 STORY
MAX BUILDING COVERAGE		26,833 SF (70%)
EXISTING BUILDING GROSS FLOOR AREA		18,896 SF
TOTAL PROPOSED GROSS FLOOR AREA		11,715 SF
TOTAL ENTRANCES / SERVICE ENTRANCES		7
PROPOSED PARKING	STANDARD	31 STALLS
	ADA	4 STALLS
	TOTAL	35 STALLS
	ON-STREET	NONE
PAVEMENT/PARKING/SIDEWALK AREA		34,124 SF (3.4%)
TOTAL IMPERVIOUS AREA		45,993 SF (4.6%)
TOTAL PERVIOUS AREA		947,732 SF (95.4%)

BUILDING SETBACKS (ZONE I-2)	
MINIMUM EXTERIOR YARD	30'
MAXIMUM EXTERIOR YARD	20'
MINIMUM INTERIOR YARD	20'

LEGAL DESCRIPTION
PART OF THE FRACTIONAL NORTHWEST QUARTER OF SECTION 6, TOWNSHIP 19 NORTH, RANGE 29 WEST AND PART OF THE FRACTIONAL SOUTHWEST QUARTER OF SECTION 31, TOWNSHIP 20 NORTH, RANGE 29 WEST CITY OF ROGERS, BENTON COUNTY, ARKANSAS

N

0' 15' 30' 60'
SCALE IN FEET

NOT FOR CONSTRUCTION

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

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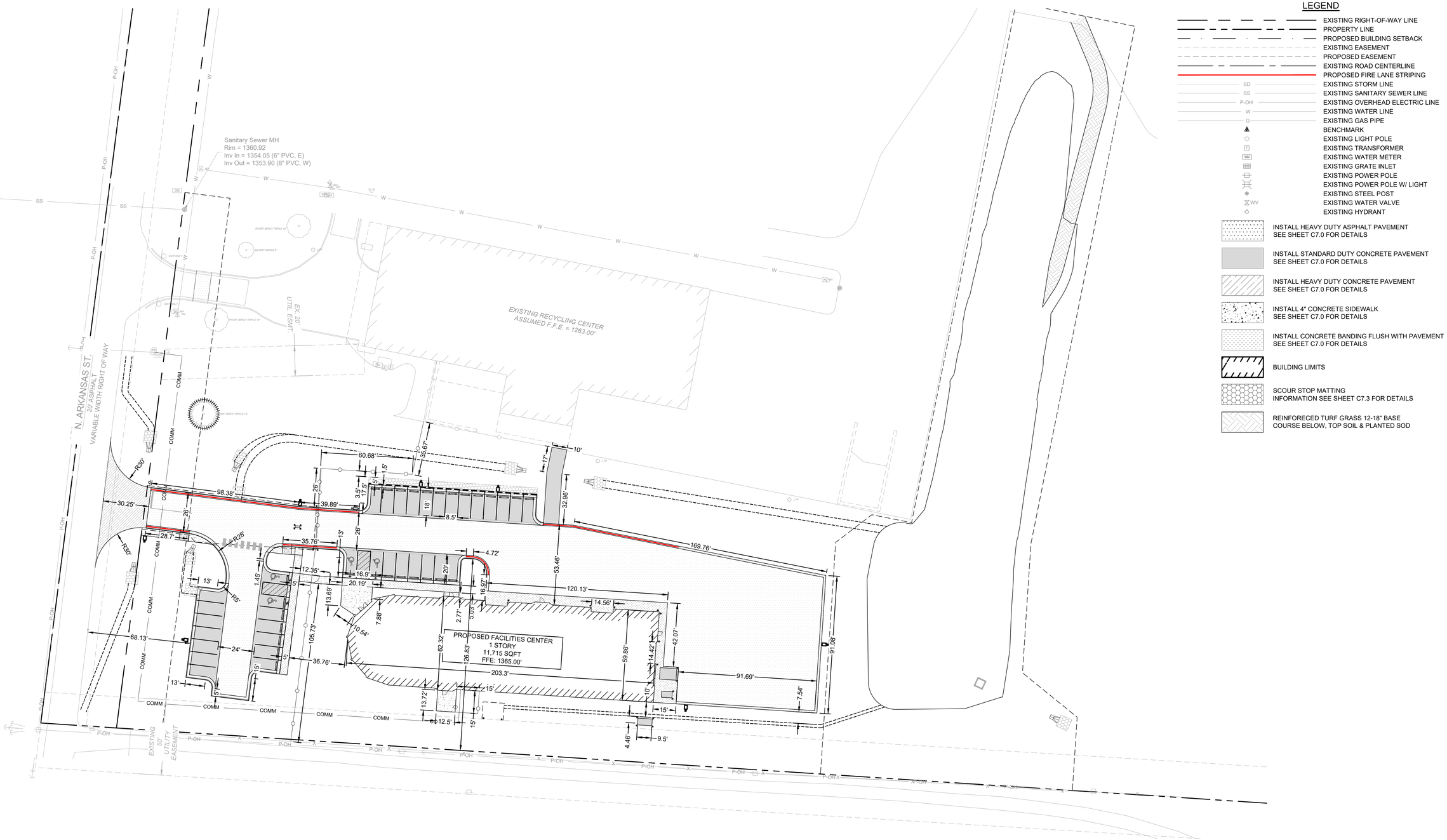
LAND DEVELOPMENT PLAN

C1.0

BID SET
05/04/2026 025-04961



LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ROAD CENTERLINE
- PROPOSED FIRE LANE STRIPING
- SD — EXISTING STORM LINE
- SS — EXISTING SANITARY SEWER LINE
- P-OH — EXISTING OVERHEAD ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS PIPE
- BENCHMARK
- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- WM — EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- WV — EXISTING WATER VALVE
- EXISTING HYDRANT
- INSTALL HEAVY DUTY ASPHALT PAVEMENT SEE SHEET C7.0 FOR DETAILS
- INSTALL STANDARD DUTY CONCRETE PAVEMENT SEE SHEET C7.0 FOR DETAILS
- INSTALL HEAVY DUTY CONCRETE PAVEMENT SEE SHEET C7.0 FOR DETAILS
- INSTALL 4" CONCRETE SIDEWALK SEE SHEET C7.0 FOR DETAILS
- INSTALL CONCRETE BANDING FLUSH WITH PAVEMENT SEE SHEET C7.0 FOR DETAILS
- BUILDING LIMITS
- SCOUR STOP MATTING INFORMATION SEE SHEET C7.3 FOR DETAILS
- REINFORECED TURF GRASS 12-18" BASE COURSE BELOW, TOP SOIL & PLANTED SOD

KEYNOTES:

NOTE: REFER TO SITE PLAN SHEET, C1.2, FOR DETAILED SITE FEATURES

N

0' 15' 30' 60'
SCALE IN FEET

NOT FOR CONSTRUCTION

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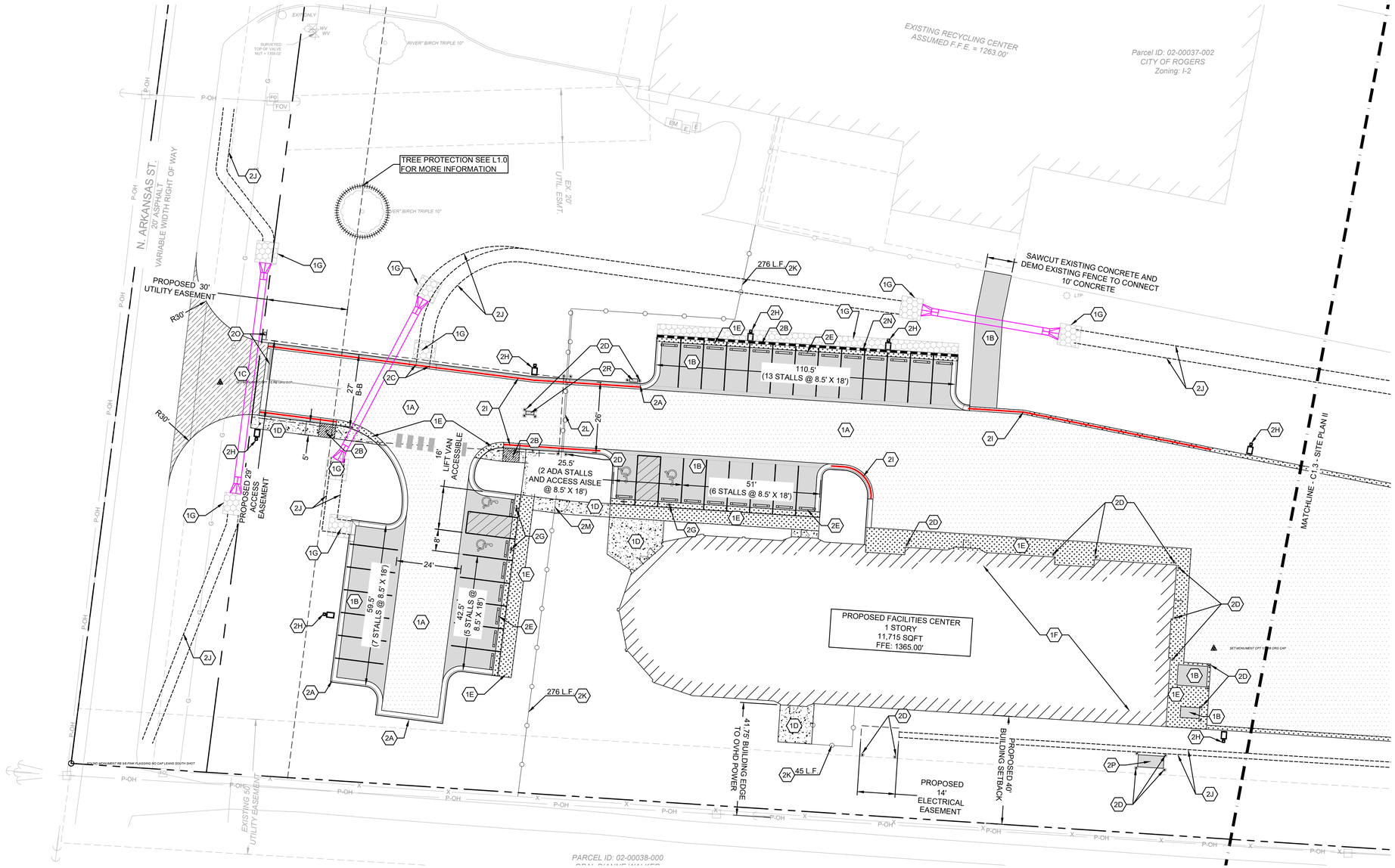
DIMENSION PLAN I

C1.1

BID SET
05/04/2026 025-04961



LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
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- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- EXISTING WATER VALVE
- EXISTING HYDRANT
- PROPOSED FIRE LANE STRIPING
- PROPOSED FENCE
- PROPOSED STORM LINE
- PROPOSED STORM STRUCTURE
- PROPOSED FLARED END SECTION

KEYNOTES:

- 1A — INSTALL HEAVY DUTY ASPHALT PAVEMENT SEE SHEET C7.0 FOR DETAILS
- 1B — INSTALL STANDARD DUTY CONCRETE PAVEMENT SEE SHEET C7.0 FOR DETAILS
- 1C — INSTALL HEAVY DUTY CONCRETE PAVEMENT SEE SHEET C7.0 FOR DETAILS
- 1D — INSTALL 4" CONCRETE SIDEWALK SEE SHEET C7.0 FOR DETAILS
- 1E — INSTALL CONCRETE BANDING FLUSH WITH PAVEMENT SEE SHEET C7.0 FOR DETAILS
- 1F — BUILDING LIMITS
- 1G — 8' X 8' FLEXAMAT FOR MORE INFORMATION SEE SHEET C7.3 FOR DETAILS
- 1H — REINFORECED TURF GRASS 12-18" BASE COURSE BELOW, TOP SOIL & PLANTED SOD
- 2A — CONSTRUCT STANDARD CURB & GUTTER SEE SHEET C7.3 FOR DETAILS
- 2B — CONSTRUCT TYP. SIDEWALK RAMP WITH DETECTIBLE WARNING SURFACE AT BACK OF CURB, SEE ROGERS DETAILS
- 2C — 5' CURB CUT FOR DRAINAGE, SEE SHEET C7.1 FOR DETAILS
- 2D — INSTALL BOLLARD. SEE SHEET C7.1 FOR DETAILS
- 2E — INSTALL BUMP STOP. SEE SHEET C7.0 FOR DETAILS
- 2F — CURB TRANSITION SEE SHEET C7.0 FOR DETAILS
- 2G — INSTALL POLE MOUNTED ACCESSIBLE SIGNAGE. SEE SHEET C7.0 FOR DETAILS
- 2H — INSTALL LIGHT POLE, SEE ARCH & PHOTOMETRIC PLAN FOR DETAILS
- 2I — INSTALL 4" SOLID RED FIRELANE STRIPING READING 'FIRE LANE - NO PARKING" SEE PAVEMENT MARKING NOTES THIS SHEET
- 2J — CONSTRUCT VEGETATED GRASS SWALE, SEE SHEET C7.1 FOR DETAILS
- 2K — INSTALL 6' TALL CHAINLINK FENCE, MATCH EXISTING, SEE SHEET C7.2 FOR DETAILS REFERENCE OWNER FOR MATERIALS AND SPECIFICATIONS
- 2L — INSTALL 6' TALL MOTORIZED SLIDING GATE WITH WITH KEYPAD & KNOX BOX CONTROLS, REFERENCE ARCH FOR MATERIALS AND SPECIFICATIONS
- 2M — INSTALL PEDESTRIAN GATE WITH KEYPAD ENTRY. REFERENCE ARCH FOR MORE INFORMATION
- 2N — CONSTRUCT LANDSCAPE RETAINING WALL SEE SHEET C7.1 FOR DETAILS
- 2O — INSTALL STOP BAR AND STOP SIGN SEE SHEET C7.4 FOR DETAILS
- 2P — GENERATOR PAD, REFERENCE MEP PLANS FOR PAD DETAILS
- 2R — MOTORIZED AUTOMATIC GATE & KNOX BOX READER. REFERENCE ARCH PLANS FOR DETAILS

PAVEMENT MARKING NOTES:

1. DO NOT APPLY PAVEMENT MARKING PAINT UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED WITH THE ARCHITECT.
2. ALLOW CONCRETE PAVING TO AGE FOR 28 DAYS BEFORE MARKING.
3. ALL PAVEMENT SURFACES SHALL BE CLEANED/CLEARED OF ANY DEBRIS OR CURING COMPOUNDS IN ACCORDANCE WITH MANUFACTURES REQUIREMENTS PRIOR TO ANY MARKING APPLICATIONS.
4. DETAILS NOT SHOWN SHALL BE IN CONFORMITY WITH THE STATE STANDARDS FOR TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, AND SIMILAR REQUIREMENTS ESTABLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.
5. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE AS PER THE SITE PLANS.
6. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS. USE SHERWIN WILLIAMS PROFESSIONAL FAST DRY ACRYLIC LATEX TRAFFIC MARKING PAINT OR EQUAL, USE WHITE, BLUE OR YELLOW, WHERE APPROPRIATE. UNLESS OTHERWISE DIRECTED, USE THE FOLLOWING:
   A. BLACKTOP OR BITUMINOUS ASPHALT PAVING: USE WHITE COLOR.
   B. PORTLAND CEMENT CONCRETE PAVING: USE WHITE COLOR.
   C. ADA ACCESSIBLE PARKING AND ENTRYWAYS: USE BLUE COLOR.
   D. PROVIDE PAINTED CURBS AT FIRE LANE DESIGNATIONS PER FIRE MARSHAL REQUIREMENTS.
7. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT), CAPABLE OF APPLYING THE MARKING WIDTHS AS SHOWN. PROVIDE A MINIMUM WET FILM THICKNESS OF 15 MILS. USE PNEUMATIC SPRAY GUNS FOR HAND APPLICATION OF PAINT. ALL PAINTING EQUIPMENT AND OPERATIONS SHALL BE UNDER THE CONTROL OF EXPERIENCED TECHNICIANS THOROUGHLY FAMILIAR WITH EQUIPMENT AND MATERIALS AND MARKING LAYOUTS.
8. DETAIL PAVEMENT MARKINGS SHALL BE THAT MARKING, EXCLUSIVE OF ACTUAL TRAFFIC LANE MARKING, AT EXIT AND ENTRANCE ISLANDS AND TURNOUTS, ON CURBS, AT CROSSWALKS, AT PARKING BAYS AND AT SUCH OTHER LOCATIONS AS SHOWN. ADA ACCESSIBLE PARKING SPACES SHALL BE MARKED BY THE INTERNATIONAL ACCESSIBLE SYMBOL AT INDICATED PARKING SPACES. USE A SUITABLE TEMPLATE THAT WILL PROVIDE A PAVEMENT MARKING WITH TRUE, SHARP EDGES AND ENDS.

N

0' 10' 20' 40'
SCALE IN FEET

BENCHMARK:

POINT # 101
CTK 1/2 RB
EL: 1365.87'
N: 741840.00
E: 690583.15

POINT # 102
CTK 1/2 RB
EL: 1361.64'
N: 741938.36
E: 690216.02

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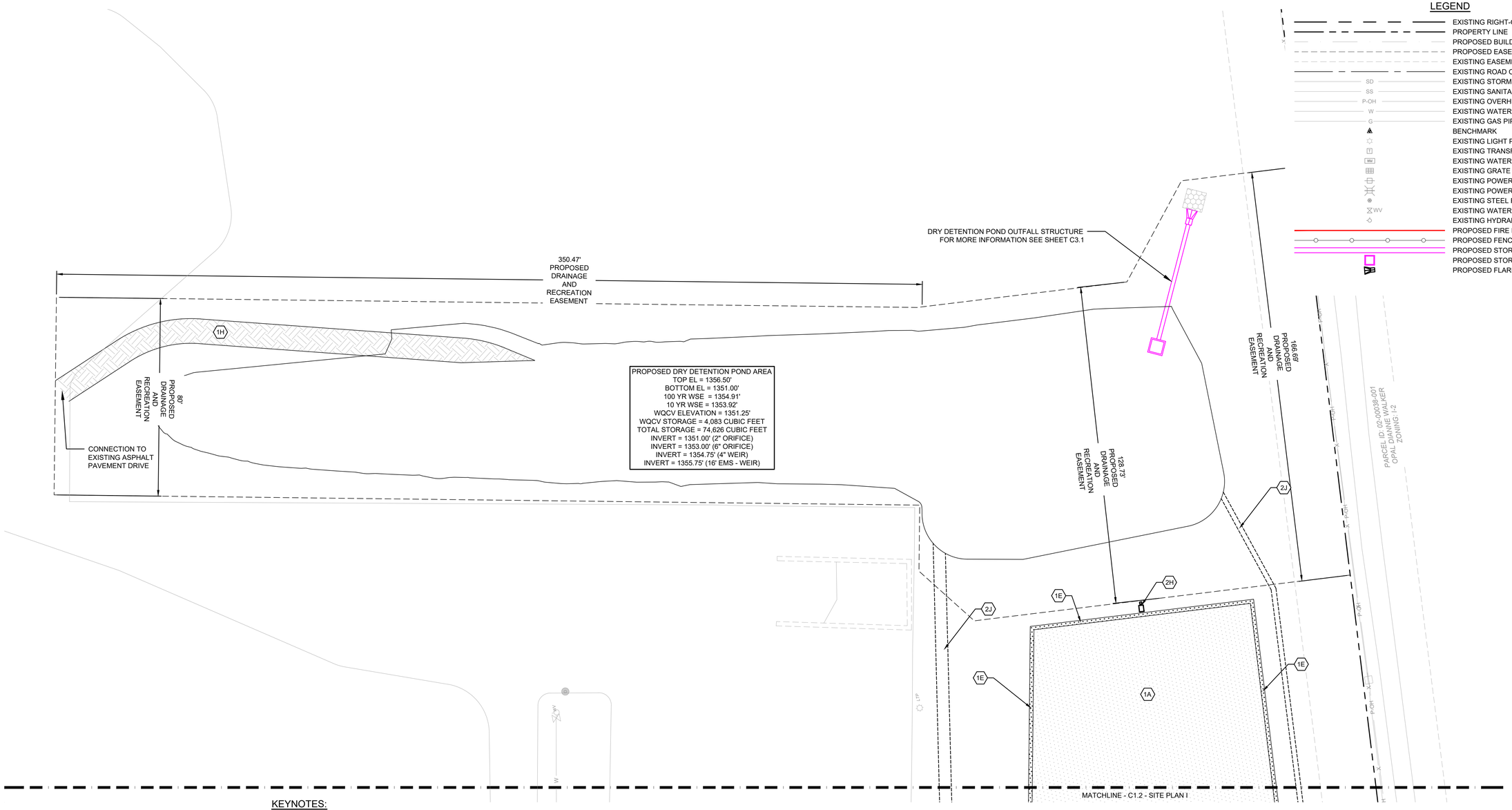
SITE PLAN I

C1.2

BID SET
05/04/2026 025-04961



LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
- SD — EXISTING STORM LINE
- SS — EXISTING SANITARY SEWER LINE
- P-OH — EXISTING OVERHEAD ELECTRIC LINE
- W — EXISTING WATER LINE
- G — EXISTING GAS PIPE
- BENCHMARK
- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- WV — EXISTING WATER VALVE
- EXISTING HYDRANT
- PROPOSED FIRE LANE STRIPING
- PROPOSED FENCE
- PROPOSED STORM LINE
- PROPOSED STORM STRUCTURE
- PROPOSED FLARED END SECTION

KEYNOTES:

- 1A — INSTALL HEAVY DUTY ASPHALT PAVEMENT SEE SHEET C7.0 FOR DETAILS
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N

0' 10' 20' 40'
SCALE IN FEET

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EL: 1365.87'
N: 741840.00
E: 690583.15

POINT # 102
CTK 1/2 RB
EL: 1361.64'
N: 741938.36
E: 690216.02

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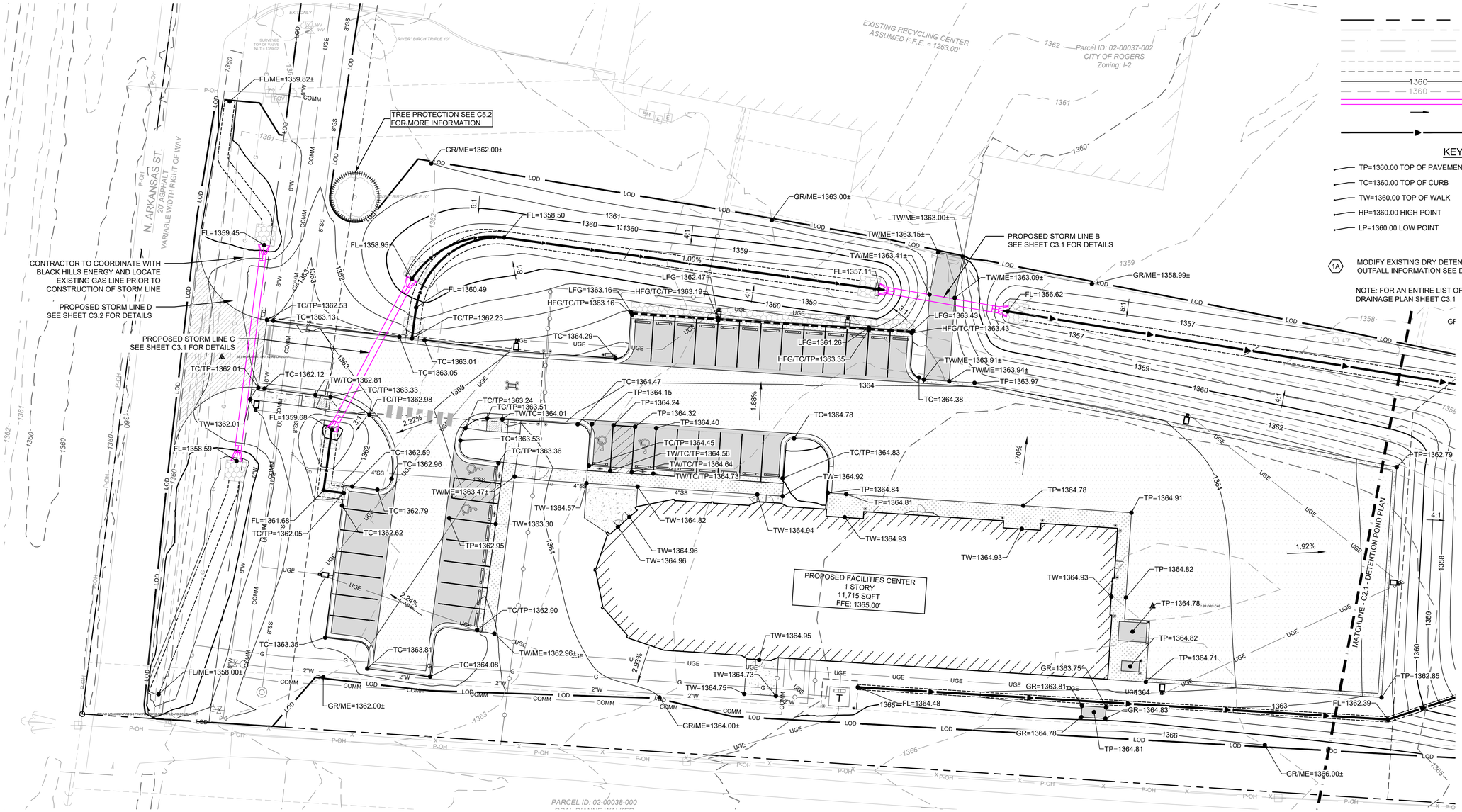
SITE PLAN II

C1.3

BID SET
05/04/2026 025-04961



LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- BUILDING SETBACK
- LANDSCAPE BUFFERYARD
- EXISTING UTILITY EASEMENT
- PROPOSED UTILITY EASEMENT
- PROPOSED CONTOUR
- EXISTING CONTOUR
- PROPOSED STORM LINE
- SLOPE ARROW
- BREAK IN GRADE/DRAINAGE PATH
- SWALE FLOWLINE

KEYNOTES:

- TP=1360.00 TOP OF PAVEMENT
- TC=1360.00 TOP OF CURB
- TW=1360.00 TOP OF WALK
- HP=1360.00 HIGH POINT
- LP=1360.00 LOW POINT
- GR=1360.00 GREENSPACE
- EG=1360.00 EXISTING GRADE
- ME=1360.00 MATCH EXISTING
- HFG=1360.00 HIGH FINISH GRADE
- LFG=1360.00 LOW FINISH GRADE

1A MODIFY EXISTING DRY DETENTION POND FOR ADDITIONAL POND AND OUTFALL INFORMATION SEE DETAIL SHEET C7.1

NOTE: FOR AN ENTIRE LIST OF STORMWATER STRUCTURES SEE DRAINAGE PLAN SHEET C3.1

GRADING NOTES

1. ALL ELEVATIONS ARE TO NORTH AMERICAN VERTICAL DATUM (N.A.V.D. 1988).

2. STRIPPINGS ARE TO BE STOCKPILED ON-SITE AS DIRECTED BY THE ENGINEER. FOLLOWING THE COMPLETION OF THE GRADING, THIS TOPSOIL SHALL BE USED AS FILL MATERIAL ON ALL LANDSCAPED AREAS. IF STOCKPILE IS INACTIVE FOR MORE THAN 14 DAYS, STABILIZE OR PROTECT THE PERIMETER AS SHOWN ON SHEET CX.X.

3. ALL HERBACEOUS VEGETATION SHALL BE REMOVED FROM WITHIN THE LIMITS OF THE GRADING AND REDISTRIBUTED WITH THE TOPSOIL AS OUTLINED IN NOTE #2.

4. CONTRACTOR SHALL USE CAUTION AROUND ANY EXISTING UTILITIES LOCATED ONSITE. THEY SHALL BE RESPONSIBLE FOR THE REPAIRS OF SUCH STRUCTURES WHEN BROKEN OR OTHERWISE DAMAGED BY THE NEW CONSTRUCTION.

5. THE PROPOSED CONTOURS REPRESENT TOP OF SLAB IN PAVEMENT AREAS AND FINISHED GRADE IN ALL OTHER AREAS. QUANTITIES DO NOT TAKE INTO ACCOUNT CORE-OUT OR ANY OVER-EXCAVATION.

6. CONTRACTOR SHALL ADDRESS ANY GRADING RECOMMENDATIONS IDENTIFIED IN THE GEOTECHNICAL INVESTIGATION. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

7. THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES, PIPES AND STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS AND TO THE BEST OF OUR KNOWLEDGE CONSTITUTES ALL KNOWN FACILITIES. HOWEVER, THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT ANY EXISTING UTILITIES OR STRUCTURES LOCATED AT THE WORK SITE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT AN UNDERGROUND LOCATE SERVICE IN ADVANCE OF ANY EXCAVATION FOR THE MARK-OUT OF THE LOCATION OF UTILITIES AND NOTIFICATION OF COMMENCEMENT OF WORK.

8. BEFORE EXCAVATING FOR THIS CONTRACT, THE CONTRACTOR SHALL FIELD VERIFY LOCATION OF UNDERGROUND UTILITIES. CONTRACTOR SHALL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND UTILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF THE SEDIMENT CONTROL BARRIERS FOR A PERIOD OF 1 YEAR OR UNTIL THEY ARE RELEASED FROM THIS RESPONSIBILITY BY THE ENGINEER, WHICHEVER PERIOD IS SHORTER.

10. ALL ITEMS REMOVED SHALL BE DISPOSED OFF SITE BY THE CONTRACTOR AS PER CITY OF ROGERS REQUIREMENTS.

11. IN ALL LOCATIONS WHERE NEW PAVEMENT ABUTS EXISTING, SAW CUT EXISTING PAVEMENT AS NECESSARY TO PROVIDE A SMOOTH TRANSITION AT THE JOINT. MATCH EXISTING GRADES AT THE JOINT IN ALL LOCATIONS.

12. CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.

13. IN ALL LOCATIONS WHERE NEW PAVEMENT ABUTS EXISTING, SAW CUT EXISTING PAVEMENT AS NECESSARY TO PROVIDE A SMOOTH TRANSITION AT THE JOINT. MATCH EXISTING GRADES AT THE JOINT IN ALL LOCATIONS.

N

0' 10' 20' 40'
SCALE IN FEET

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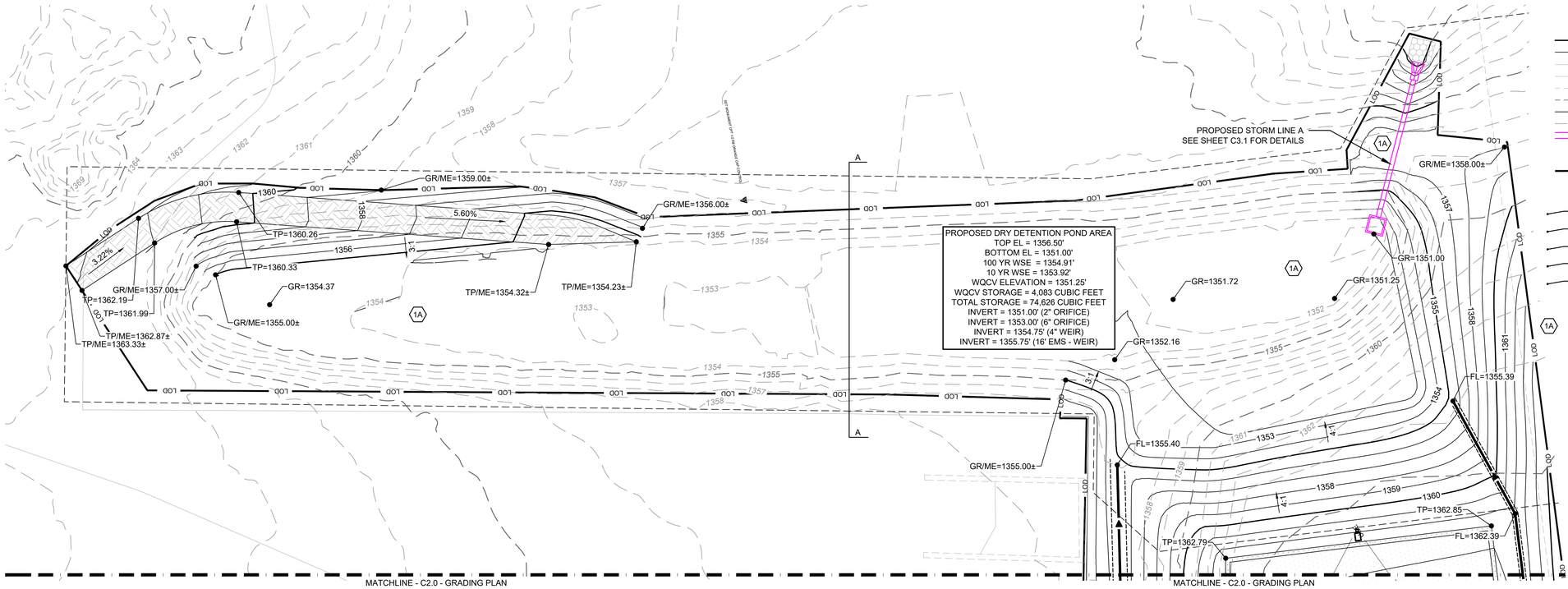
GRADING PLAN

C2.0

BID SET
05/04/2026 025-04961



LEGEND

- RIGHT-OF-WAY LINE
- PROPERTY LINE
- BUILDING SETBACK
- LANDSCAPE BUFFERYARD
- EXISTING UTILITY EASEMENT
- PROPOSED UTILITY EASEMENT
- 1360 PROPOSED CONTOUR
- 1360 EXISTING CONTOUR
- PROPOSED STORM LINE
- SLOPE ARROW
- BREAK IN GRADE/DRAINAGE PATH
- SWALE FLOWLINE

KEYNOTES:

- TP=1360.00 TOP OF PAVEMENT
- TC=1360.00 TOP OF CURB
- TW=1360.00 TOP OF WALK
- HP=1360.00 HIGH POINT
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- GR=1360.00 GREENSPACE
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- HFG=1360.00 HIGH FINISH GRADE
- LFG=1360.00 LOW FINISH GRADE

1A MODIFY EXISTING DRY DETENTION POND FOR ADDITIONAL POND AND OUTFALL INFORMATION SEE THIS SHEET

NOTE: FOR AN ENTIRE LIST OF STORMWATER STRUCTURES SEE SHEET C3.1

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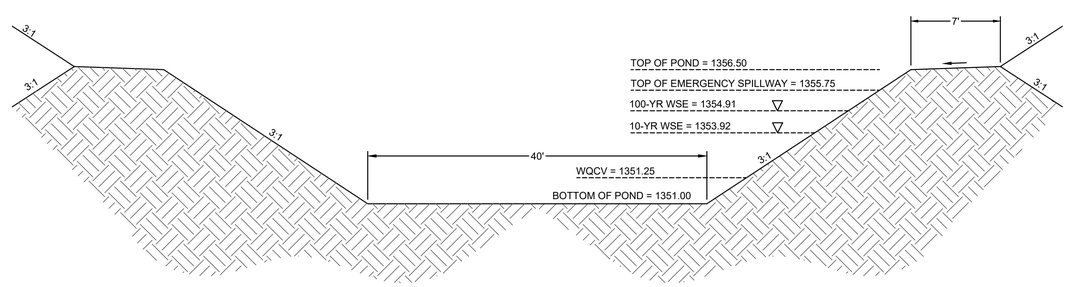
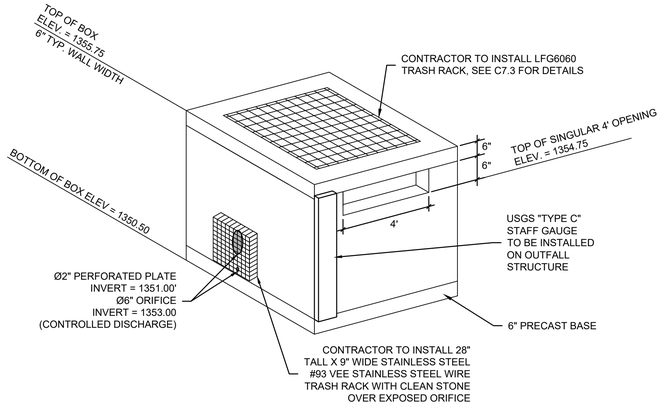
STAGE STORAGE CHART

Stage / Storage / Discharge Table

Stage ft	Storage cuft	Elevation ft	Clv A cfs	Clv B cfs	Clv C cfs	PrfRsr cfs	Wr A cfs	Wr B cfs	Wr C cfs	Wr D cfs	Exfil cfs	User cfs	Total cfs
0.00	0	1351.00	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.10	335	1351.10	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.20	670	1351.20	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.30	1,005	1351.30	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.40	1,340	1351.40	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.50	1,676	1351.50	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.60	2,011	1351.60	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.70	2,346	1351.70	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.80	2,681	1351.80	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
0.90	3,016	1351.90	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
1.00	3,351	1352.00	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
1.10	4,276	1352.10	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
1.20	5,201	1352.20	0.00	0.00	0.00	---	0.00	0.00	---	---	---	---	0.000
1.30	6,126	1352.30	0.08 oc	0.03 ic	0.00	---	0.00	0.00	---	---	---	---	0.033
1.40	7,051	1352.40	0.08 oc	0.05 ic	0.00	---	0.00	0.00	---	---	---	---	0.047
1.50	7,976	1352.50	0.08 oc	0.06 ic	0.00	---	0.00	0.00	---	---	---	---	0.058
1.60	8,901	1352.60	0.08 oc	0.07 ic	0.00	---	0.00	0.00	---	---	---	---	0.066
1.70	9,826	1352.70	0.08 oc	0.07 ic	0.00	---	0.00	0.00	---	---	---	---	0.074
1.80	10,751	1352.80	0.08 oc	0.08 ic	0.00	---	0.00	0.00	---	---	---	---	0.081
1.90	11,676	1352.90	0.12 oc	0.09 ic	0.00	---	0.00	0.00	---	---	---	---	0.088
2.00	12,602	1353.00	0.12 oc	0.09 ic	0.00	---	0.00	0.00	---	---	---	---	0.094
2.10	14,140	1353.10	0.14 oc	0.10 ic	0.03 ic	---	0.00	0.00	---	---	---	---	0.131
2.20	15,678	1353.20	0.23 oc	0.10 ic	0.11 ic	---	0.00	0.00	---	---	---	---	0.219
2.30	17,216	1353.30	0.35 oc	0.11 ic	0.23 ic	---	0.00	0.00	---	---	---	---	0.340
2.40	18,754	1353.40	0.48 oc	0.11 ic	0.36 ic	---	0.00	0.00	---	---	---	---	0.478
2.50	20,292	1353.50	0.59 oc	0.12 ic	0.47 ic	---	0.00	0.00	---	---	---	---	0.592
2.60	21,830	1353.60	0.68 oc	0.12 ic	0.56 ic	---	0.00	0.00	---	---	---	---	0.683
2.70	23,368	1353.70	0.77 oc	0.13 ic	0.63 ic	---	0.00	0.00	---	---	---	---	0.762
2.80	24,906	1353.80	0.84 oc	0.13 ic	0.70 ic	---	0.00	0.00	---	---	---	---	0.834
2.90	26,444	1353.90	0.90 oc	0.14 ic	0.76 ic	---	0.00	0.00	---	---	---	---	0.899
3.00	27,982	1354.00	0.96 oc	0.14 ic	0.82 ic	---	0.00	0.00	---	---	---	---	0.959
3.10	30,065	1354.10	1.02 oc	0.14 ic	0.87 ic	---	0.00	0.00	---	---	---	---	1.016
3.20	32,208	1354.20	1.07 oc	0.15 ic	0.92 ic	---	0.00	0.00	---	---	---	---	1.069
3.30	34,321	1354.30	1.12 oc	0.15 ic	0.97 ic	---	0.00	0.00	---	---	---	---	1.120
3.40	36,434	1354.40	1.17 oc	0.16 ic	1.01 ic	---	0.00	0.00	---	---	---	---	1.169
3.50	38,547	1354.50	1.22 oc	0.16 ic	1.06 ic	---	0.00	0.00	---	---	---	---	1.215
3.60	40,660	1354.60	1.26 oc	0.16 ic	1.10 ic	---	0.00	0.00	---	---	---	---	1.260
3.70	42,773	1354.70	1.30 oc	0.17 ic	1.14 ic	---	0.00	0.00	---	---	---	---	1.304
3.80	44,886	1354.80	1.50 oc	0.17 ic	1.18 ic	---	0.00	0.15	---	---	---	---	1.494
3.90	46,999	1354.90	2.16 oc	0.17 ic	1.21 ic	---	0.00	0.77	---	---	---	---	2.159
4.00	49,112	1355.00	3.09 oc	0.17 ic	1.25 ic	---	0.00	1.66	---	---	---	---	3.087
4.10	51,663	1355.10	4.21 oc	0.17 ic	1.29 ic	---	0.00	2.76	---	---	---	---	4.214
4.20	54,215	1355.20	5.51 oc	0.17 ic	1.32 ic	---	0.00	4.02	---	---	---	---	5.508
4.30	56,766	1355.30	6.95 oc	0.16 ic	1.35 ic	---	0.00	5.43	---	---	---	---	6.950
4.40	59,317	1355.40	8.52 oc	0.15 ic	1.38 ic	---	0.00	6.98	---	---	---	---	8.516
4.50	61,869	1355.50	10.07 oc	0.14 ic	1.27 ic	---	0.00	8.65	---	---	---	---	10.07
4.60	64,420	1355.60	11.68 oc	0.12 ic	1.12 ic	---	0.00	10.44	---	---	---	---	11.68
4.70	66,971	1355.70	13.30 oc	0.10 ic	0.90 ic	---	0.00	12.29 s	---	---	---	---	13.29
4.80	69,523	1355.80	14.24 oc	0.08 ic	0.75 ic	---	0.60	12.81 s	---	---	---	---	14.24
4.90	72,074	1355.90	15.18 oc	0.06 ic	0.54 ic	---	3.10	11.48 s	---	---	---	---	15.17
5.00	74,626	1356.00	15.79 oc	0.04 ic	0.36 ic	---	5.93 s	9.46 s	---	---	---	---	15.79
5.10	77,363	1356.10	16.13 oc	0.03 ic	0.28 ic	---	7.36 s	8.46 s	---	---	---	---	16.13
5.20	80,100	1356.20	16.41 oc	0.03 ic	0.23 ic	---	8.37 s	7.78 s	---	---	---	---	16.40
5.30	82,838	1356.30	16.65 oc	0.02 ic	0.19 ic	---	9.14 s	7.29 s	---	---	---	---	16.64
5.40	85,575	1356.40	16.87 oc	0.02 ic	0.16 ic	---	9.77 s	6.92 s	---	---	---	---	16.86
5.50	88,312	1356.50	17.09 oc	0.02 ic	0.14 ic	---	10.29 s	6.63 s	---	---	---	---	17.07
5.60	91,050	1356.60	17.30 oc	0.01 ic	0.12 ic	---	10.74 s	6.40 s	---	---	---	---	17.28
5.70	93,787	1356.70	17.50 oc	0.01 ic	0.11 ic	---	11.14 s	6.21 s	---	---	---	---	17.48
5.80	96,525	1356.80	17.70 oc	0.01 ic	0.10 ic	---	11.49 s	6.06 s	---	---	---	---	17.66
5.90	99,262	1356.90	17.89 oc	0.01 ic	0.09 ic	---	11.83 s	5.94 s	---	---	---	---	17.88
6.00	102,000	1357.00	18.09 oc	0.01 ic	0.08 ic	---	12.13 s	5.84 s	---	---	---	---	18.06



TYPICAL POND SECTION A-A
NOT TO SCALE



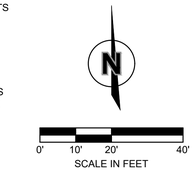
5' X5' DRY DETENTION POND WEIR OUTFALL STRUCTURE DETAIL
NOT TO SCALE

OUTFALL STRUCTURE NOTES:

1. BOTTOM TO BE POURED IN PLACE.
2. PIPE TO BE ON GRADE BEFORE BOTTOM IS CONSTRUCTED.
3. RAM-NEK ALL JOINTS (OR EQUAL).
4. REINFORCING BARS SHALL BE CUT OR BENT AT PIPE OPENINGS
5. ALL PIPES SHALL FIT FLUSH WITH INSIDE FACE OF BOX.
6. ALL CONCRETE SHALL HAVE 28 DAY COMPRESSIVE STRENGTH OF 4,000 PSI.
7. ALL REINFORCING BARS TO BE DEFORMED AND MEET REQUIREMENTS OF 1996 ASTM STANDARDS NO. A-615-68 MIN. GRADE 40
8. MUST MAINTAIN 6" CLEARANCE BETWEEN THE PIPE AND WALLS FOR PRECAST BOX.
9. BOX SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF ROGERS STANDARDS, INCLUDING REBAR SIZE AND PLACEMENT. WALL THICKNESS AND DIMENSIONS MAY VARY IF A PRECAST BOX USED.
10. ORIFICES SHALL BE PERFORATED STEEL PLATES BOLTED IN W/ TRASH RACKS.

DETENTION POND INFORMATION

Design Storm	Peak Flow In (cfs)	Peak Flow Out (cfs)	Detained Volume (cubic feet)	Water Surface Elevation (ft)
1-Year	17.770	0.399	12,688	1,353.34
2-Year	19.700	0.551	14,629	1,353.46
5-Year	23.830	0.779	18,775	1,353.72
10-Year	27.000	0.913	21,962	1,353.92
25-Year	34.640	1.120	29,642	1,354.30
50-Year	41.900	1.278	36,927	1,354.64
100-Year	47.720	2.207	42,779	1,354.91



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DETENTION POND PLAN

C2.1

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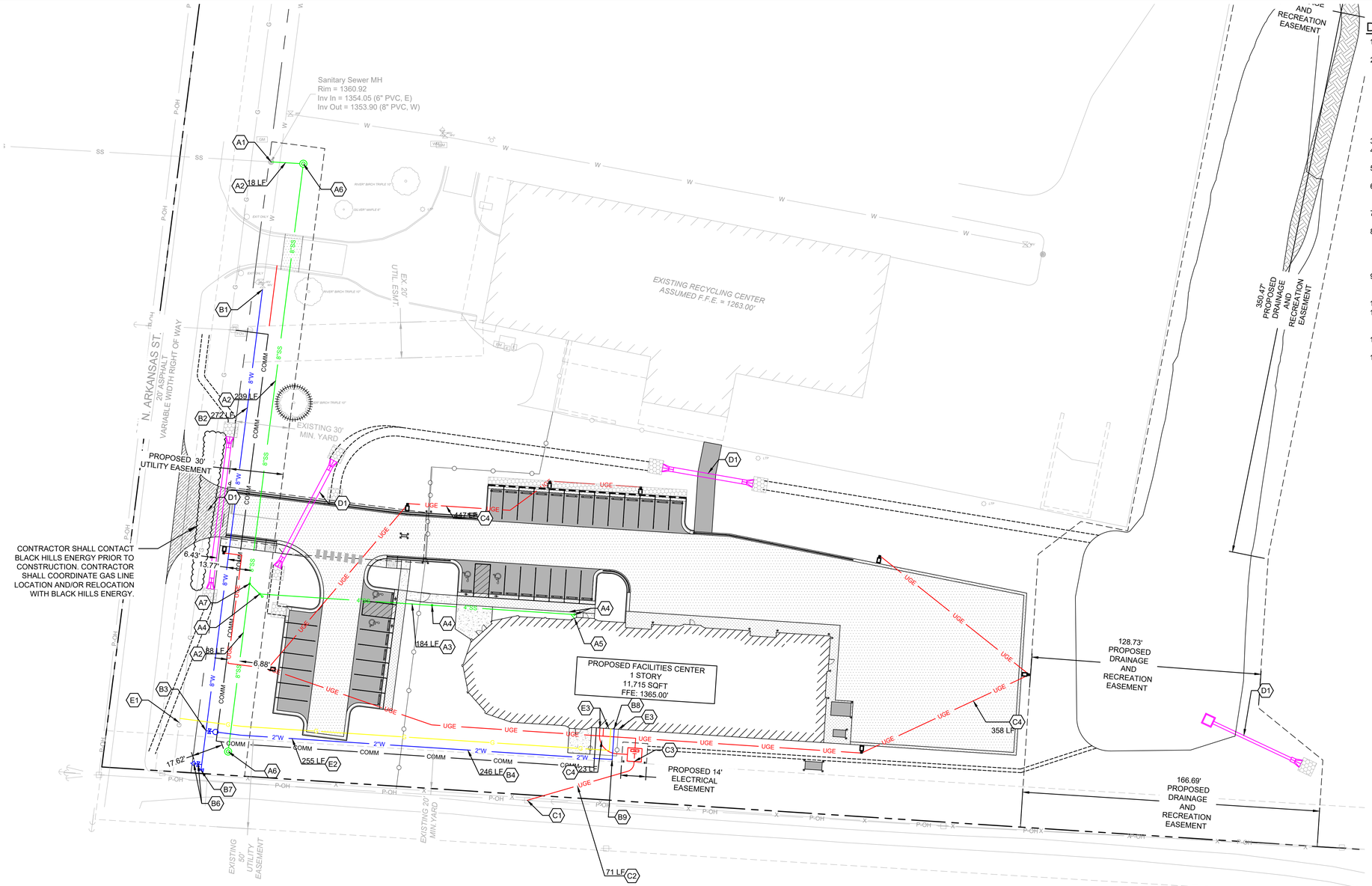

KEYNOTES:

- A1 CONTRACTOR TO DEMO AND REMOVE EXISTING MAN HOLE AND EXTEND PUBLIC 8" MAIN, SEE RWU FOR DETAILS
- A2 CONTRACTOR TO INSTALL 8" SDR-26 PVC SANITARY SEWER MINIMUM SLOPE @0.45%
- A3 CONTRACTOR TO INSTALL 4" SDR-26 PVC SANITARY SEWER MINIMUM SLOPE @2.08%
- A4 CONTRACTOR TO INSTALL 4" SDR-26 PVC SANITARY SEWER CLEANOUT, SEE SHEET FOR INVERT, SEE RWU FOR DETAILS
- A5 CONTRACTOR TO INSTALL 4" SDR-26 PVC SANITARY SEWER CONNECTION TO BUILDING (FOR CONTINUATION SEE MEP PLANS)
- A6 CONTRACTOR TO INSTALL 48" CAST-IN-PLACE SANITARY SEWER MANHOLE, SEE C4.1FOR INVERT, SEE RWU FOR DETAILS
- A7 CONTRACTOR TO INSTALL 8" X 4" SANITARY SEWER WYE & CLEANOUT SEE C4.1FOR INVERT, SEE RWU FOR DETAILS
- B1 PROPOSED 8" WATER MAIN EXTENSION SHALL CONNECT TO EXISTING PLUGGED 8" WATER VALVE. NO TAPPING SLEEVE OR ADDITIONAL GATE VALVE SHALL BE INSTALLED AT THIS CONNECTION. SEE RWU FOR DETAILS
- B2 CONTRACTOR TO INSTALL PUBLIC 8" DIP WATERLINE SEE C4.0 FOR MORE INFORMATION, REFERENCE RWU FOR DETAILS
- B3 INSTALL 8" X 2" TEE, 2" WATER METER & 2" GATE VALVE, SEE C4.0 FOR MORE INFORMATION, MIN COVER 30" SEE RWU FOR DETAILS CONTRACTOR TO POTHOLE AND VERIFY WATERLINE ELEVATION OF EXISTING VALVES AND TEE PRIOR TO CONSTRUCTION
- B4 CONTRACTOR TO INSTALL 245 LF OF 2" PVC DOMESTIC WATERLINE, MIN COVER 30" SEE RWU FOR DETAILS
- B5 WATERLINE CONNECTION TO BUILDING (FOR CONTINUATION SEE MEP PLANS)
- B6 INSTALL FIRE HYDRANT, 8" X 6" TEE, AND 6" VALVE W/ TAMPER-PROOF OPERATING NUT. 6" DIP. SEE C4.0 FOR MORE INFORMATION,36" MIN. COVER. REF. RWU FOR DETAILS
- B7 CONTRACTOR TO INSTALL 8" VALVE AND PLUG PER RWU DETAILS, SEE C4.0 FOR MORE INFORMATION
- B8 CONTRACTOR TO INSTALL 2" COPPER 90D BEND PER RWU DETAILS
- C1 PROPOSED PRIMARY CONNECTION TO EXISTING POWER. CONTRACTOR TO COORDINATE CONNECTION WITH SWEPCO
- C2 INSTALL PRIMARY ELECTRIC LINE, CONTRACTOR TO COORDINATE INSTALTATION WITH SWEPCO
- C3 INSTALL ELECTRIC TRANSFORMER CONTRACTOR TO COORDINATE WITH SWEPCO & MEP PLANS PRIOR TO CONSTRUCTION FOR SPECS
- C4 INSTALL SECONDARY ELECTRIC LINE, COORD WITH SWEPCO & MEP PLANS PRIOR TO CONSTRUCTION FOR CONDUIT SIZE, QUANTITY & SPECS
- D1 STORM UTILITY, SEE SHEET C3.1 FOR REFERENCE
- E1 CONTRACTOR TO COORDINATE TAP INTO EXISTING GAS LINE WITH BLACK HILLS ENERGY
- E2 INSTALL GAS LINE, CONTRACTOR TO COORDINATE SIZE, MATERIAL AND SPECIFICATIONS WITH BLACK HILLS ENERGY
- E3 POWER & GAS CONNECTION TO BUILDING (FOR CONTINUATION SEE MEP PLANS)

DOMESTIC WATER & FIRE PROTECTION LINE GENERAL NOTES:

1. CONTRACTOR TO VERIFY WITH ARCHITECTURAL/MEP PLANS FOR SIZE AND LOCATION OF UTILITY SERVICE TO BUILDING BEFORE CONSTRUCTION.
2. WHERE THE WATER SERVICE IS TO BE CONSTRUCTED BELOW OR WITHIN 18 INCHES OF ANY SEWER PIPE, THE CONTRACTOR SHALL LAY A FULL LENGTH OF WATER SERVICE PIPE CENTERED ON THE SEWER OR SUCH LENGTH AS WILL PROVIDE THE MAXIMUM POSSIBLE SEPARATION OF THE JOINTS IN THE WATER SERVICE FROM THE SEWER LINE. IF NOT ALREADY SO, THE CONTRACTOR SHALL CONSTRUCT SANITARY SEWER WITH ONE 20 FOOT NOMINAL LENGTH OF PRESSURE PIPE MATERIAL CENTERED ON THE WATER SERVICE, SUCH THAT THE MAXIMUM POSSIBLE SEPARATION BETWEEN THE WATER SERVICE AND THE SEWER PIPE JOINTS WILL RESULT. THE BACKFILL MATERIAL SHALL BE SELECT, LOW PERMEABILITY SOIL.
3. REMOVE SPOIL MATERIAL FROM SITE.
4. THE CONTRACTOR SHALL NOT EXCEED MANUFACTURERS RECOMMENDATIONS FOR MAXIMUM PIPE JOINT DEFLECTIONS.
5. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE ENGINEER TO DO A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.
6. PRIOR TO FINAL ACCEPTANCE ALL WATER SERVICE PIPE SHALL BE PRESSURE TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF ROGERS REQUIREMENTS.
7. PRIOR TO FINAL ACCEPTANCE ALL WATER SERVICE PIPE SHALL BE DISINFECTED BY THE CONTRACTOR IN ACCORDANCE WITH THE CITY OF ROGERS REQUIREMENTS.
8. LOCATION AND ELEVATIONS OF IMPROVEMENTS TO BE MET (OR AVOIDED) BY WORK TO BE DONE SHALL BE CONFIRMED BY THE CONTRACTOR THROUGH FIELD EXPLORATIONS PRIOR TO CONSTRUCTION. CONTRACTOR SHALL REPORT TO THE ENGINEER OR CITY INSPECTOR ANY DISCREPANCIES BETWEEN HIS MEASUREMENTS AND THESE PLANS.
9. ALL WATER SERVICE CONSTRUCTION SHALL BE DONE UNDER A PLUMBERS PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS.
10. MAINTAIN 42" MINIMUM COVER OVER TOP OF WATER SERVICE PIPE.
11. WATER SERVICE PIPE MATERIALS SHALL BE SDR 13.5 PVC FOR IRRIGATION WATER LINE & DOMESTIC SERVICE UNDER 4" AND AWWA C900 PVC FOR FIRE PROTECTION, DOMESTIC & SERVICE MAINS OVER 4".
12. INSTALLATION OF FIRE SERVICE SHALL BE IN ACCORDANCE WITH CURRENT NFPA 24 GUIDELINES.
13. CONTRACTOR SHALL BE RESPONSIBLE TO DEFLECT PIPE OR ADD FITTINGS AS NECESSARY TO MAINTAIN A MINIMUM 18" OF CLEARANCE BETWEEN FIRE/WATER LINES AND ALL OTHER UNDERGROUND UTILITIES.

SANITARY SEWER GENERAL NOTE:

SANITARY SERVICE LATERAL SHALL BE SCH40 PVC.
MINIMUM SLOPE FOR SANITARY SEWER LATERALS:
4" SEWER LATERAL SLOPE = 2.08%. MIN.
6" SEWER LATERAL SLOPE = 1.04%. MIN.

LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- PROPOSED EASEMENT
- EXISTING EASEMENT
- EXISTING ROAD CENTERLINE
- SD EXISTING STORM LINE
- SS EXISTING SANITARY SEWER LINE
- P-OH EXISTING OVERHEAD ELECTRIC LINE
- W EXISTING WATER LINE
- G EXISTING GAS PIPE
- BENCHMARK
- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- WM EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- WV EXISTING WATER VALVE
- EXISTING HYDRANT
- PROPOSED FENCE
- PROPOSED STORM LINE
- 8"SS PROPOSED PUBLIC SANITARY LINE
- 4"SS PROPOSED SANITARY LATERAL
- 12"W PROPOSED PUBLIC WATER MAIN
- 2"W PROPOSED PRIVATE WATER SERVICE
- UGE PROPOSED ELECTRICAL LINE
- PROPOSED GAS LINE
- PROPOSED STORM STRUCTURE
- PROPOSED FLARED END SECTION
- PROPOSED PUBLIC SANITARY MANHOLE
- PROPOSED SANITARY CLEANOUT
- PROPOSED WATER METER
- PROPOSED WATER VALVE
- PROPOSED HYDRANT
- PROPOSED TRANSFORMER
- PROPOSED LIGHT POLE

N

0' 15' 30' 60'
SCALE IN FEET

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ROGERS FACILITIES DEPARTMENT
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UTILITY PLAN

C3.0

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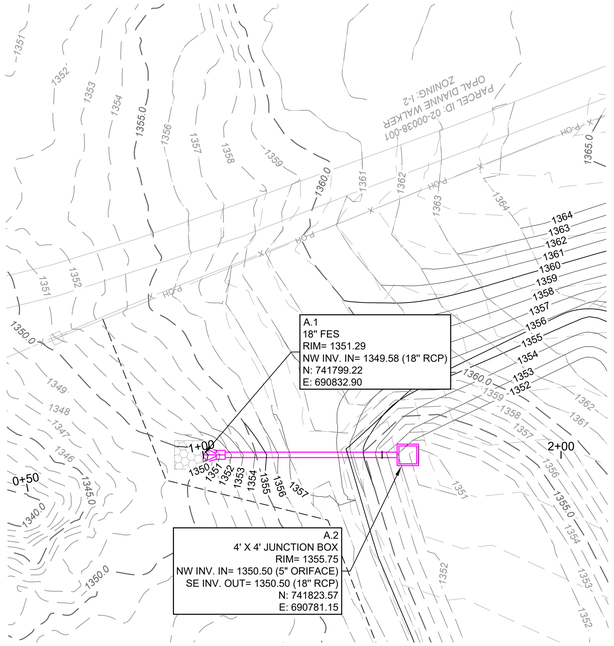
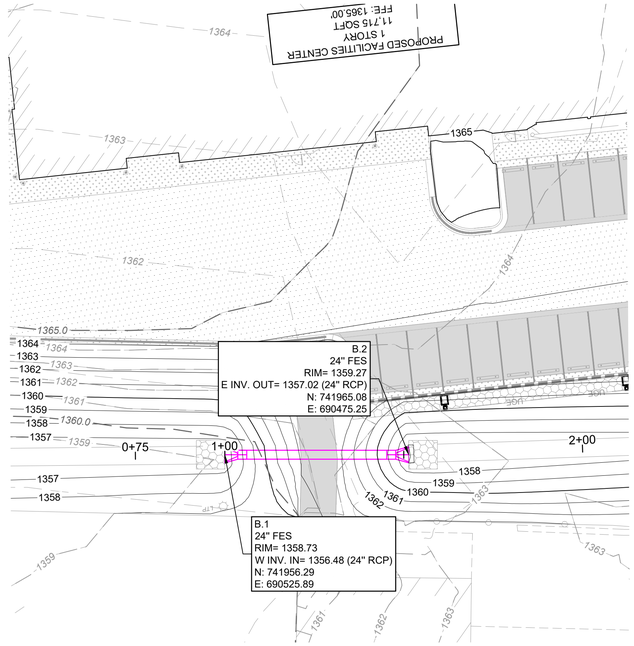
05/04/2026 025-04961



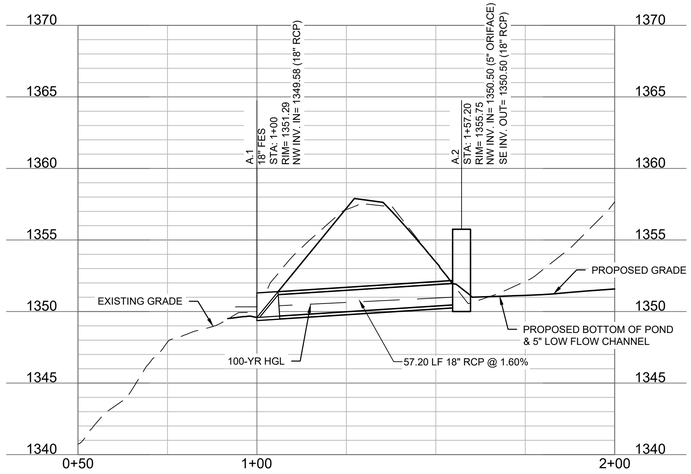


LEGEND

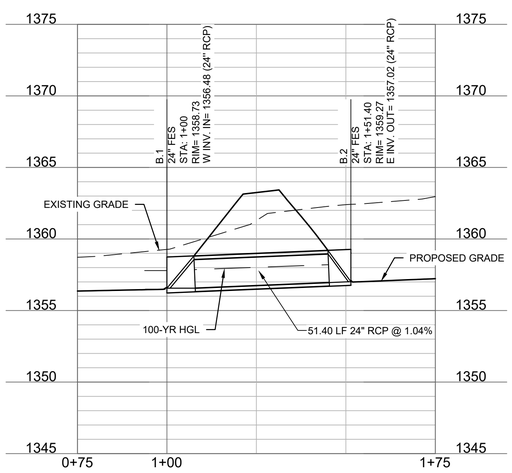
- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ROAD CENTERLINE
- SD — EXISTING STORM LINE
- SS — EXISTING SANITARY SEWER LINE
- P-OH — EXISTING OVERHEAD ELECTRIC LINE
- W — EXISTING WATER LINE
- FO — EXISTING FIBER OPTIC LINE
- BENCHMARK
- EXISTING LIGHT POLE
- T — EXISTING TRANSFORMER
- WM — EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- WV — EXISTING WATER VALVE
- W — W — W — PROPOSED WATER LINE
- SS — SS — PROPOSED SANITARY SEWER LINE
- UGE — UGE — PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED STORM LINE
- PROPOSED HYDRANT
- PROPOSED TAP/TEE

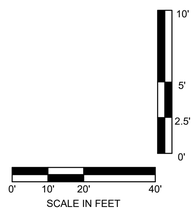
NOT FOR CONSTRUCTION

STORM LINE A (0+50 - 2+00)



STORM LINE B (0+75 - 1+75)





BENCHMARK:

POINT # 101
CTK 1/2 RB
EL: 1365.87'
N: 741840.00
E: 690583.15

POINT # 102
CTK 1/2 RB
EL: 1361.64'
N: 741938.36
E: 690216.02

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STORM PLAN AND PROFILE I

C3.1

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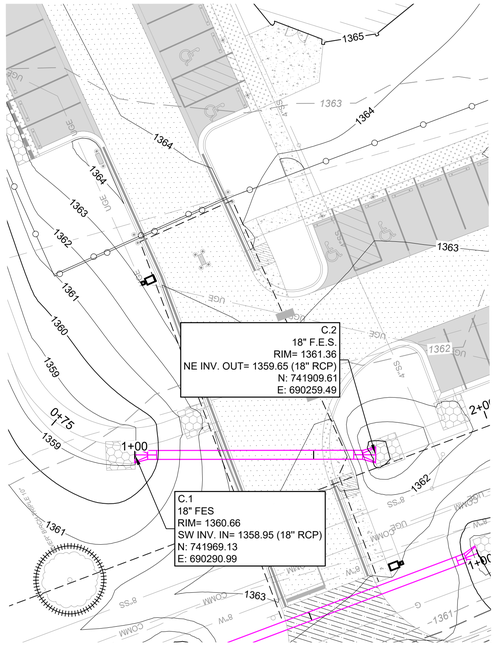
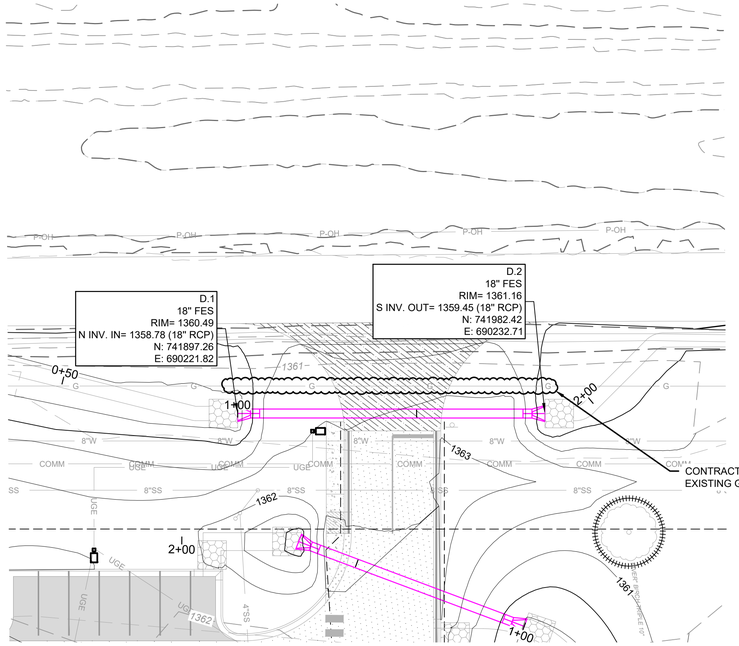
05/04/2026 025-04961





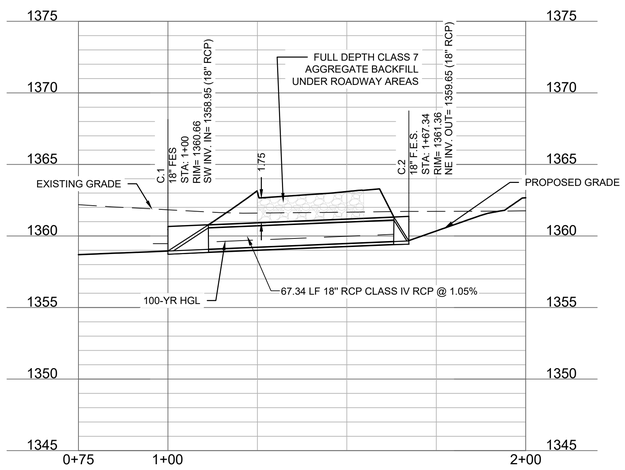
LEGEND

- EXISTING RIGHT-OF-WAY LINE
- PROPERTY LINE
- PROPOSED BUILDING SETBACK
- EXISTING EASEMENT
- PROPOSED EASEMENT
- EXISTING ROAD CENTERLINE
- EXISTING STORM LINE
- EXISTING SANITARY SEWER LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING FIBER OPTIC LINE
- BENCHMARK
- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- EXISTING WATER VALVE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED STORM LINE
- PROPOSED HYDRANT
- PROPOSED TAP/TEE

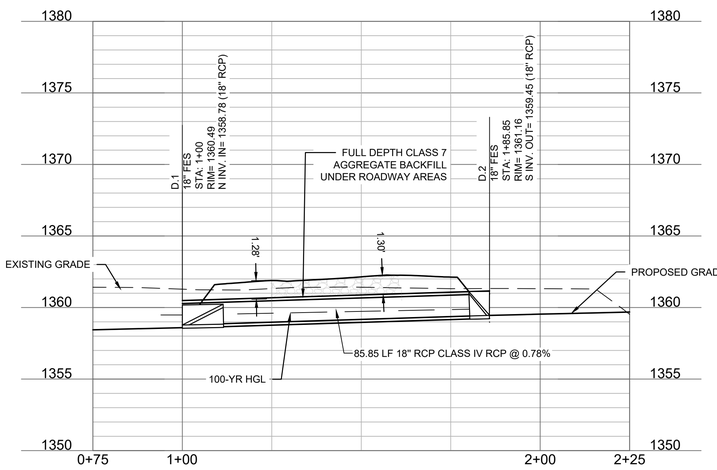
0' 10' 20'
SCALE IN FEET

0' 10' 20'
SCALE IN FEET

STORM LINE C (0+75 - 2+00)



STORM LINE D (0+75 - 2+25)



10'
5'
2.5'
0'

0' 10' 20' 40'
SCALE IN FEET

BENCHMARK:

POINT # 101
CTK 1/2 RB
EL: 1365.87'
N: 741840.00
E: 690583.15

POINT # 102
CTK 1/2 RB
EL: 1361.64'
N: 741938.36
E: 690216.02

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STORM PLAN AND PROFILE II

C3.2

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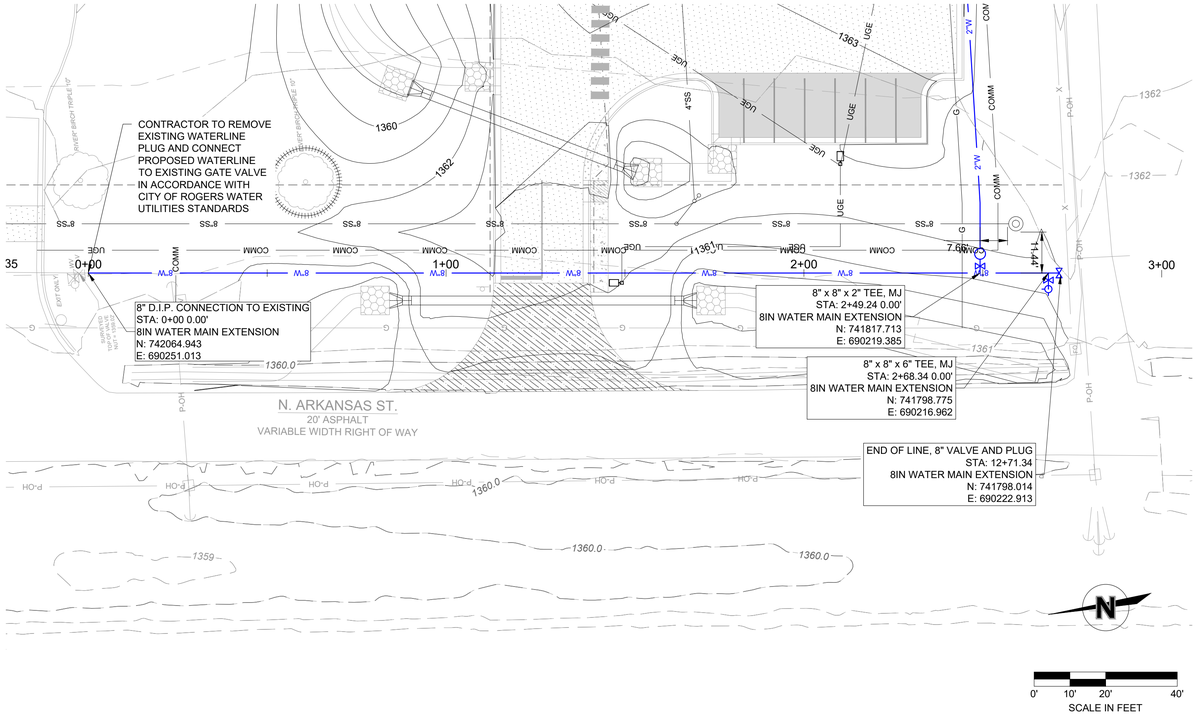

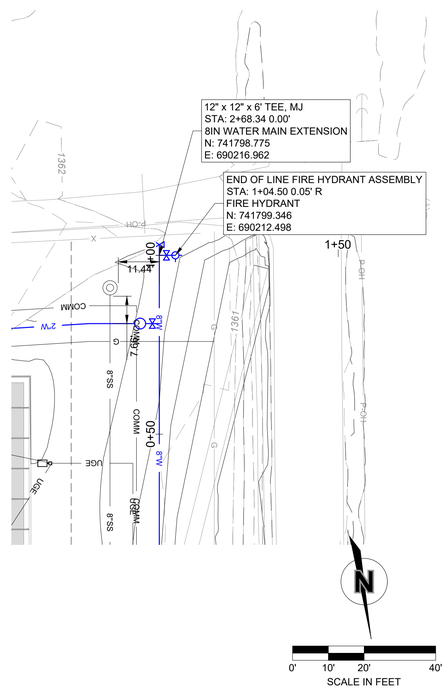

LEGEND

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- EXISTING LIGHT POLE
- EXISTING TRANSFORMER
- EXISTING WATER METER
- EXISTING GRATE INLET
- EXISTING POWER POLE
- EXISTING POWER POLE W/ LIGHT
- EXISTING STEEL POST
- EXISTING WATER VALVE
- PROPOSED WATER LINE
- PROPOSED SANITARY SEWER LINE
- PROPOSED UNDERGROUND ELECTRIC LINE
- PROPOSED STORM LINE
- PROPOSED HYDRANT
- PROPOSED TAP/TEE

NOT FOR CONSTRUCTION

DEMX ARCHITECTURE
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FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE ROGERS FACILITIES DEPARTMENT

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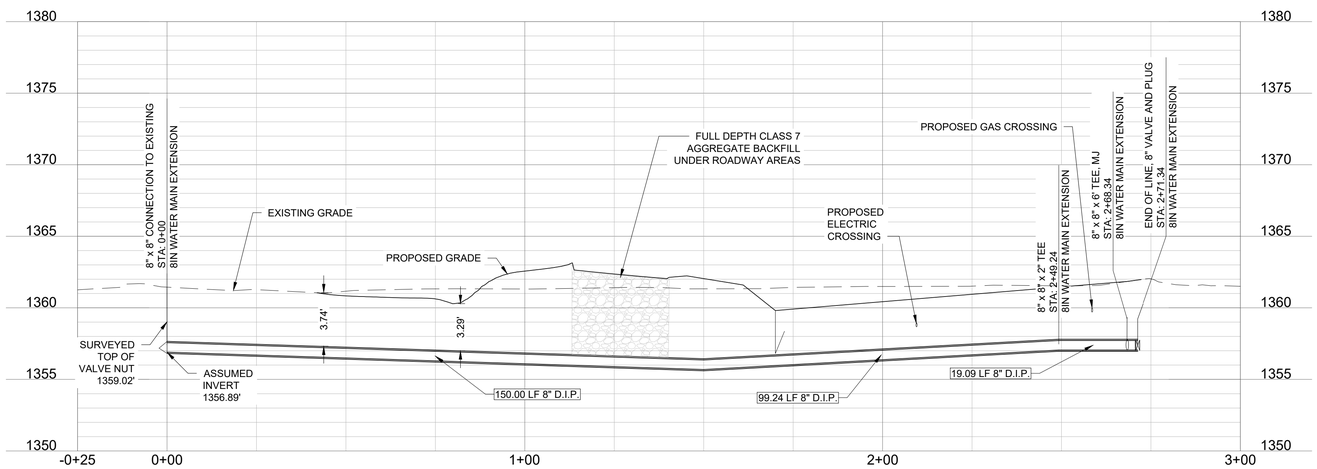
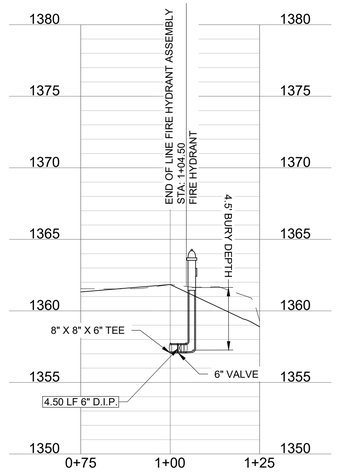
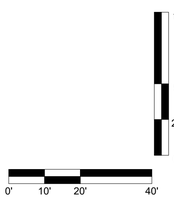
8IN WATER MAIN EXTENSION (-0+25 - 3+00)



FIRE HYDRANT (0+75 - 1+25)





NOTE: FOR DETAILS ON HYDRANT INSTALLATION REFER TO RWU DETAILS END OF LINE HYDRANT

BENCHMARK:

POINT # 101
CTK 1/2 RB
EL: 1365.87'
N: 741840.00
E: 690583.15

POINT # 102
CTK 1/2 RB
EL: 1361.64'
N: 741938.36
E: 690216.02

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PUBLIC WATER PLAN & PROFILE

C4.0

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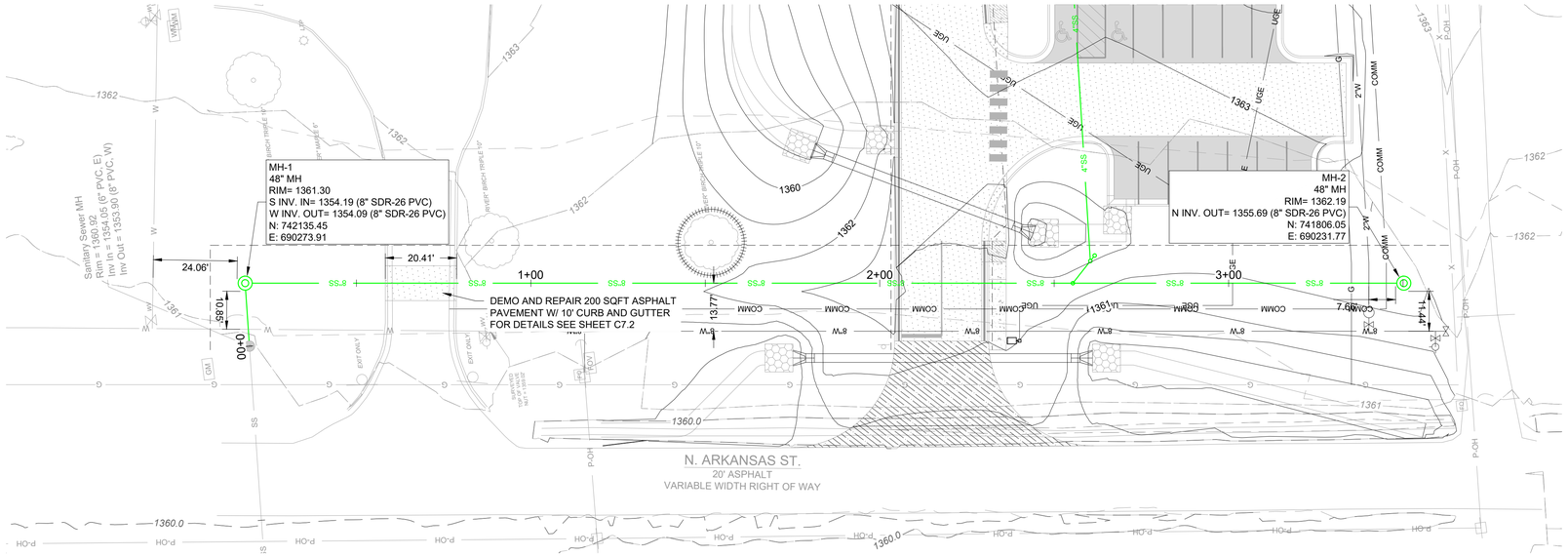
05/04/2026 025-04961



LEGEND

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- PROPERTY LINE
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- EXISTING STORM LINE
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- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING WATER LINE
- EXISTING FIBER OPTIC LINE
- BENCHMARK
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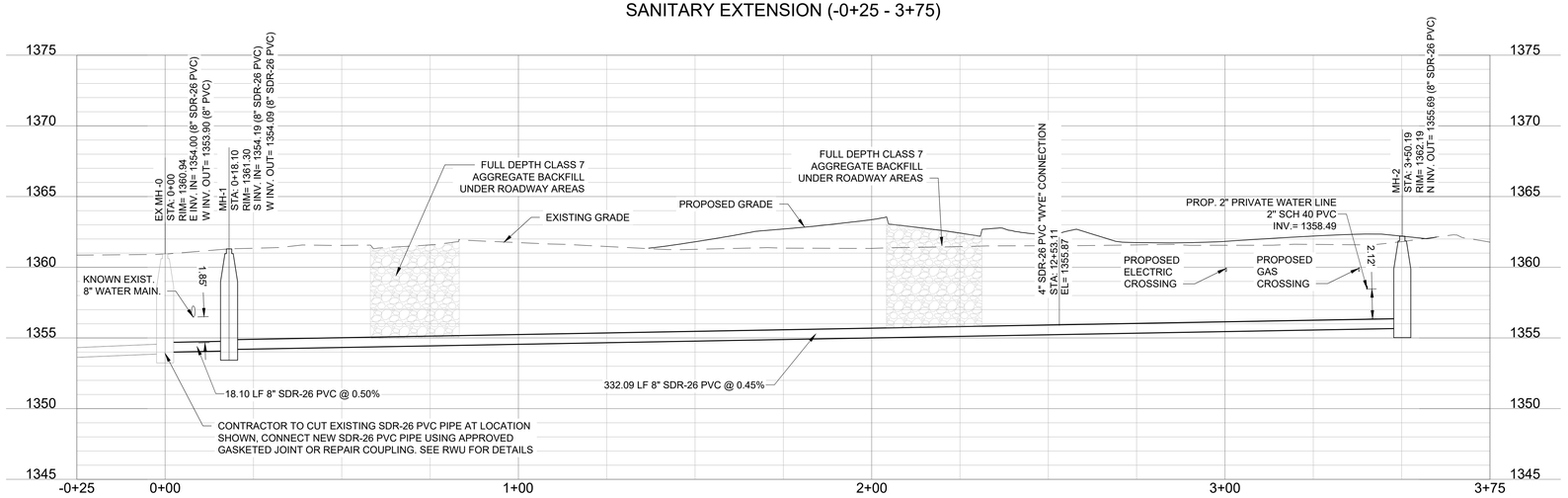
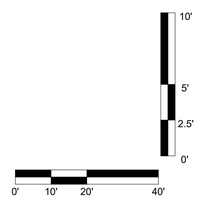
SANITARY EXTENSION (-0+25 - 3+75)





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PUBLIC SANITARY PLAN & PROFILE

C4.1

BID SET
05/04/2026 025-04961

LEGEND

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- INSTALL COMPOST FILTER SOCK
- PROPOSED STORM LINE
- INSTALL GRAVEL CONSTRUCTION ENTRANCE/EXIT
- INSTALL CONCRETE WASHOUT
- INSTALL SCOURSTOP MAT
- INSTALL GRAVEL FOREBAY

KEYNOTES:

1. APPROX. LOCATION OF CONC. WASHOUT
2. INSTALL CONSTRUCTION ENTRANCE/EXIT
3. INSTALL SILT FENCE OR APPROVED EQUAL

EROSION CONTROL NOTES:

1. PROVIDE EROSION CONTROL MEASURES TO PREVENT SOIL EROSION AND DISCHARGE OF SOIL- BEARING WATER RUNOFF OR AIRBORNE DUST TO ADJACENT PROPERTIES AND WALKWAYS.
2. LIMITS OF EROSION AND SEDIMENT CONTROL STRUCTURES SHOWN ARE SCHEMATIC. NECESSARY EROSION AND SEDIMENT CONTROL MEASURES DEPEND HEAVILY ON CONTRACTOR SCHEDULING AS WELL AS MEANS AND METHODS. ANY ADDITIONAL TYPE OR QUANTITY OF STRUCTURES NOT SHOWN THAT ARE NECESSARY TO PREVENT SEDIMENT FROM LEAVING THE SITE ARE THE CONTRACTOR'S RESPONSIBILITY.
3. CONSTRUCT EROSION CONTROL IMPROVEMENTS PRIOR TO BEGINNING OF ANY OTHER WORK.
4. FREQUENTLY INSPECT AND REPAIR OR REPLACE EROSION AND SEDIMENT CONTROL MEASURES PROMPTLY AS NEEDED.
5. DISPOSE OF SEDIMENT TRAPPED BY THESE PRACTICES IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
6. REMOVE ACCUMULATED SILT WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSE OF IN AN APPROVED SPOIL SITE OR AS ABOVE.
7. DO NOT ALLOW SILT FENCES TO OBSTRUCT SIDEWALKS, BUILDING ENTRANCES OR DRIVEWAYS
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N

0' 10' 20' 40'
SCALE IN FEET

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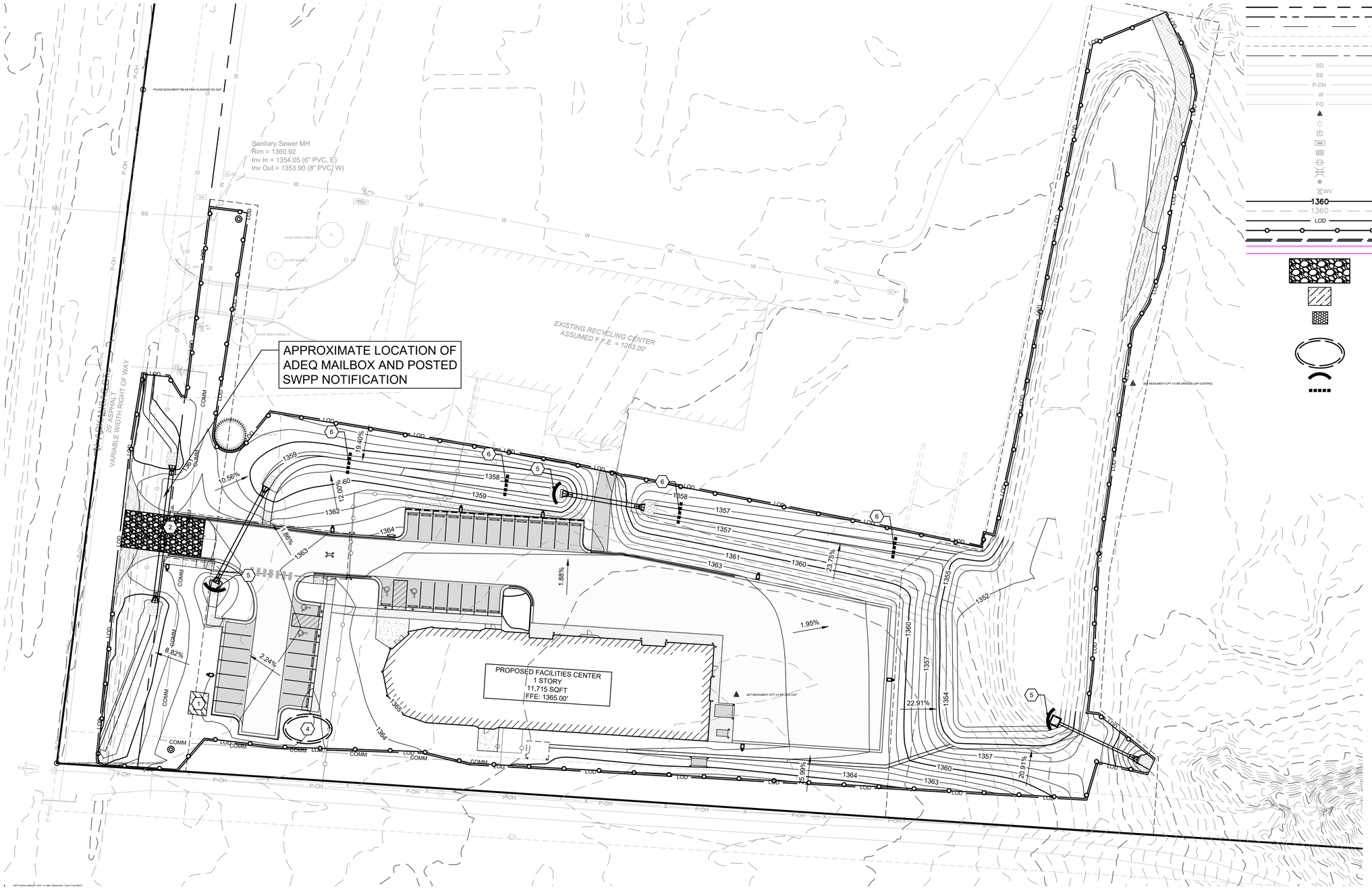
ERC PLAN PH1

C5.0

BID SET
05/04/2026 025-04961



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- INSTALL CONCRETE WASHOUT
- INSTALL SCOURSTOP MAT
- APPROX. STOCKPILE LOCATION
- INSTALL INLET PROTECTION
- INSTALL ROCK CHECK DAM

KEYNOTES:

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2. INSTALL CONSTRUCTION ENTRANCE/EXIT
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ERC PLAN PH2

C5.1

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05/04/2026 025-04961

STOCKPILE PROTECTION INSTALLATION NOTES

1. SEE PLAN FOR:
   –LOCATION OF STOCKPILES
   –TYPE OF STOCKPILE PROTECTION

2. INSTALL PERIMETER CONTROLS IN ACCORDANCE WITH THEIR RESPECTIVE DESIGN DETAILS. SILT SOCK IS SHOWN IN THE STOCKPILE PROTECTION DETAILS; HOWEVER, OTHER TYPES OF PERIMETER CONTROLS INCLUDING SEDIMENTS CONTROL LOGS OR ROCK SOCKS MAY BE SUITABLE IN SOME CIRCUMSTANCES. CONSIDERATIONS FOR DETERMINING THE APPROPRIATE TYPE OF PERIMETER CONTROL FOR A STOCKPILE INCLUDE WHETHER THE STOCKPILE IS LOCATED ON A PERVIOUS OR IMPERVIOUS SURFACE, THE RELATIVE HEIGHTS OF THE PERIMETER CONTROL AND STOCKPILE, THE ABILITY OF THE PERIMETER CONTROL TO CONTAIN THE STOCKPILE WITHOUT FAILING IN THE EVENT THAT MATERIAL FROM THE STOCKPILE SHIFTS OR SLUMPS AGAINST THE PERIMETER, AND OTHER FACTORS.

3. STABILIZE THE STOCKPILE SURFACE WITH SURFACE ROUGHENING, TEMPORARY SEEDING AND MULCHING, EROSION CONTROL BLANKETS, OR SOIL BINDERS. SOILS STOCKPILED FOR AN EXTENDED PERIOD (TYPICALLY FOR MORE THAN 60 DAYS) SHOULD BE SEEDED AND MULCHED WITH A TEMPORARY GRASS COVER ONCE THE STOCKPILE IS PLACED (TYPICALLY WITHIN 14 DAYS). USE OF MULCH ONLY OR A SOIL BINDER IS ACCEPTABLE IF THE STOCKPILE WILL BE IN PLACE FOR A MORE LIMITED TIME PERIOD (TYPICALLY 30–60 DAYS).

4. FOR TEMPORARY STOCKPILES ON THE INTERIOR PORTION OF A CONSTRUCTION SITE, WHERE OTHER DOWNGRADIENT CONTROLS, INCLUDING PERIMETER CONTROL, ARE IN PLACE, STOCKPILE PERIMETER CONTROLS MAY NOT BE REQUIRED.

STOCKPILE PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INPSECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

STOCKPILE PROTECTION MAINTENANCE NOTES

4. IF PERIMETER PROTECTION MUST BE MOVED TO ACCESS SOIL STOCKPILE, REPLACE PERIMETER CONTROL BY THE END OF THE WORKDAY.

5. STOCKPILE PERIMETER CONTROLS CAN BE REMOVED ONCE ALL THE MATERIAL FROM THE STOCKPILE HAS BEEN USED.

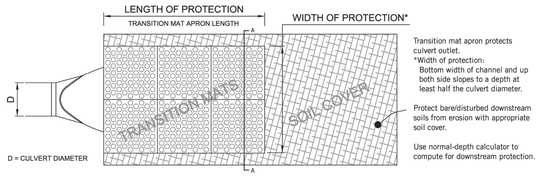
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

SEQUENCE OF CONSTRUCTION

1. INSTALL STABILIZED CONSTRUCTION ENTRANCES.
2. CONSTRUCT COMPOST FILTER SOCK/SILT FENCES ON THE SITE.
3. INSTALL INLET PROTECTION DEVICES ON EXISTING INLETS.
4. PREPARE TEMPORARY PARKING AND STORAGE AREA.
5. HALT UNTIL SITE BMP'S HAVE BEEN INSPECTED AND APPROVED. ONCE APPROVED, CLEAR AND GRUB THE SITE.
6. BEGIN GRADING THE SITE.
7. START CONSTRUCTION OF BUILDING PAD AND OTHER STRUCTURES.
8. TEMPORARILY SEED DENUDED AREAS.
9. INSTALL UTILITIES, UNDERDRAINS, STORM SEWERS AND CURB & GUTTERS.
10. INSTALL INLET PROTECTION DEVICES.
11. PREPARE SITE FOR PAVING.
12. PAVE SITE.
13. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTING.
14. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES (ONLY IF SITE IS STABILIZED)

ScourStop®
Installation Recommendations

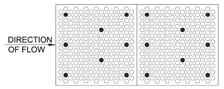
1. ScourStop mats must be installed over a soil cover: sod, seeded turf reinforcement mat (TRM), geotextile, or a combination thereof.
2. For steep slopes (>10%) or higher velocities (>10 ft/sec), sod is the recommended soil cover.
3. Follow manufacturer's **ScourStop Installation Guidelines** to ensure proper installation.
4. Install ScourStop mats at maximum 1-2" below flowline of culvert or culvert apron. (No waterfall impacts onto ScourStop mats.)
5. Performance of protected area assumes stable downstream conditions.



CULVERT OUTLET PROTECTION – PLAN VIEW

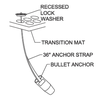
PROFILE VIEW

SECTION VIEW AA



ANCHOR PATTERN

Abut transition mats to end of culvert or culvert apron.
Adjacent mats abut together laterally and longitudinally.
Minimum 8 anchors per mat.
Extra anchors as needed for loose or wet soils.
Extra anchors as needed for uneven soil surface.



ANCHOR ILLUSTRATION

Install anchors per **ScourStop Installation Guidelines.**
Minimum depth 24" in compacted, cohesive soil.
Minimum depth 30" in loose, sandy, or wet soil.
Extra anchors as needed to secure mat tightly over soil cover.

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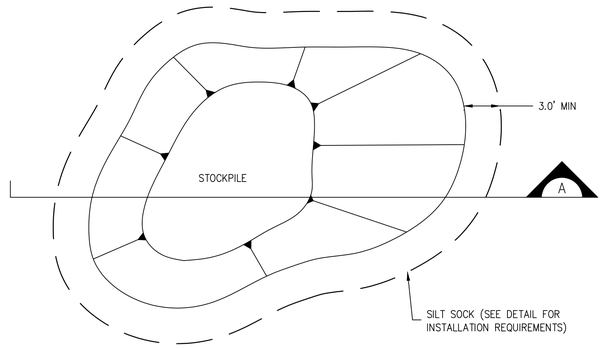
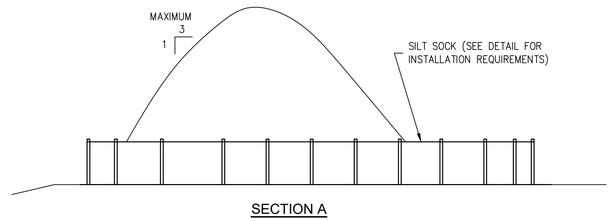


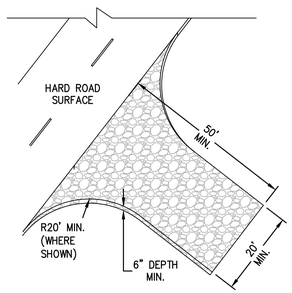
STOCKPILE PROTECTION PLAN



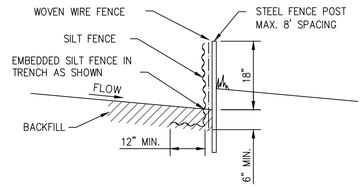
SECTION A

NOTES:

1. INSTALL AS SOON AS POSSIBLE BEFORE START OF GRADING
2. PLACE FILTER FABRIC UNDER STONE
3. USE 3"–6" CLEAN CRUSHED LIMESTONE
4. REPLACE AS NEEDED TO MAINTAIN 6" DEPTH



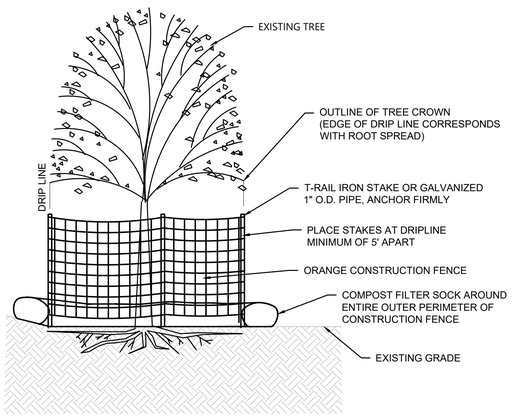
GRAVEL CONSTRUCTION ENTRANCE / EXIT
NOT TO SCALE



NOTES:

1. PLACE SILT FENCE AT DOWNSLOPE LIMIT OF AREA TO BE GRADED. CONTINUOUS STRAW BALE DIKE MAY BE SUBSTITUTED FOR SILT FENCING.
2. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
3. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED. INSPECT WITHIN 72 HOURS FOLLOWING RAINFALL.
4. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
5. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TO ADDITIONAL SILTATION.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO. 5 ABOVE.
7. AT EACH END OF SILT FENCE, TURN FENCE UPSLOPE AND EXTEND UNTIL GROUND SURFACE RISES 18".

SILT FENCING DETAIL
NOT TO SCALE



TREE PROTECTION DETAIL
NOT TO SCALE

TREE PRESERVATION NOTES

1. GRADING AROUND TREES TO BE LIMITED TO OUTSIDE THE DRIPLINE UNLESS OTHERWISE NOTED ON THESE PLANS.

2. THERE SHALL BE NO GRADING OR FILLING WITHIN THE PROTECTED CRITICAL ROOT ZONES OF PROTECTED TREES UNLESS OTHERWISE NOTED ON THESE PLANS.

3. NO VEHICLES OR EQUIPMENT SHALL BE DRIVEN OR PARKED UNDER THE DRIPLINE OF PROTECTED TREES. NO MATERIALS SHALL BE STORED UNDER THE DRIPLINE OF PROTECTED TREES.

4. TREE FENCE, COMPOST FILTER SOCK AND SILT FENCE FOR ALL PROTECTED TREES MUST BE PROPERLY MAINTAINED THROUGHOUT CONSTRUCTION.

5. ALL REQUIRED TREE, SILT FENCING AND COMPOST FILTER SOCK SHALL REMAIN IN PLACE UNTIL ALL GRADING AND LANDSCAPING ACTIVITIES HAVE CEASED AND SHALL ONLY BE REMOVED UPON THE REVIEW AND APPROVAL BY THE LANDSCAPE ARCHITECT.

6. ATTACHMENTS (WIRES, FENCES, ETC.) OTHER THAN THOSE APPROVED FOR GUYING, BRACING OR WRAPPING MUST NOT BE ATTACHED TO PROTECTED TREES.

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EROSION CONTROL DETAILS

C5.2

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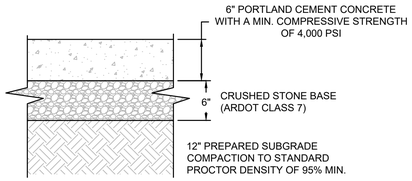
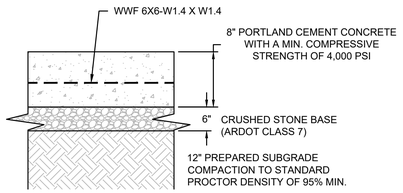
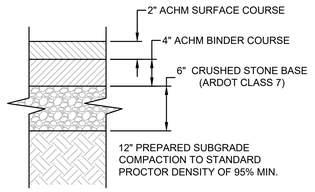


STANDARD DUTY CONCRETE PAVING DETAIL
NOT TO SCALE



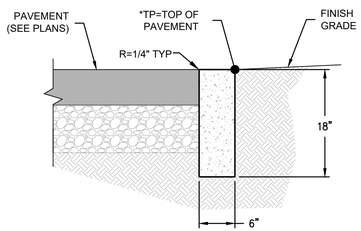
HEAVY DUTY CONCRETE PAVING DETAIL
NOT TO SCALE

NOTES:
1. CONTRACTOR SHALL SUBMIT A PAVEMENT JOINTING PLAN & JOINT DETAILS FOR ALL CONCRETE PAVEMENT FOR APPROVAL BY THE ENGINEER.



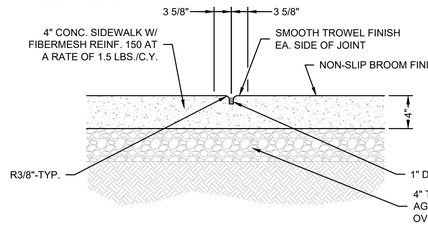
HEAVY DUTY ASPHALT PAVEMENT SECTION
NOT TO SCALE

NOTE:
THE PROPOSED PAVEMENT SECTIONS ARE PRELIMINARY, PENDING A FINAL GEOTECHNICAL REPORT RECOMMENDATION AND / OR OWNER APPROVAL.

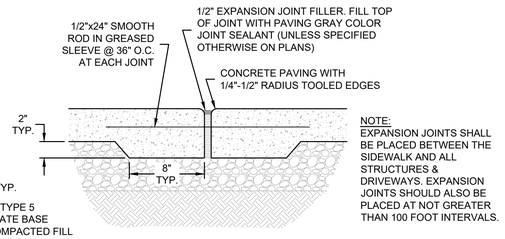


FLUSH RIBBON CURB (PRIVATE ONLY) DETAIL
NOT TO SCALE

NOTES:
1. EVENLY SPACE TOOLED JOINTS EQUAL TO WIDTH OF SIDEWALKS UP TO 12'-0".
2. SEE ARCH. PLANS FOR JOINTING TYPES & PATTERNS

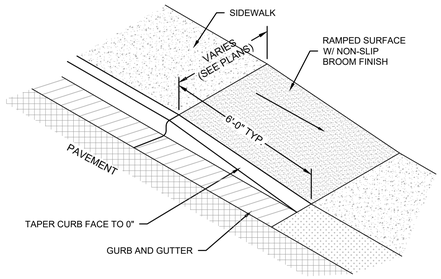


SIDEWALK & TOOLED CONTROL JOINT DETAIL

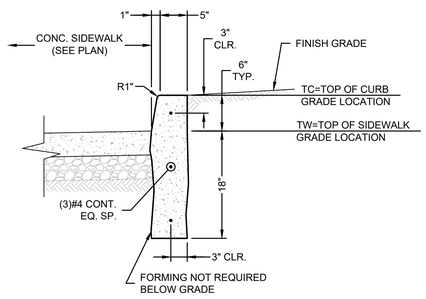


EXPANSION & CONSTRUCTION JOINT DETAIL

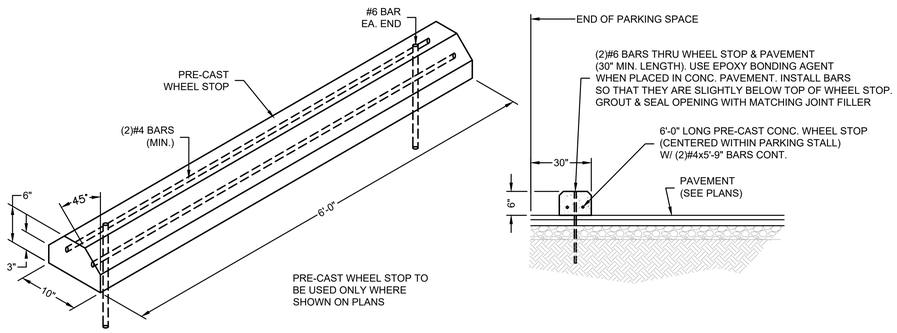
SIDEWALK DETAILS
NOT TO SCALE



CURB & SIDEWALK TRANSITION TO PAVEMENT DETAIL
NOT TO SCALE

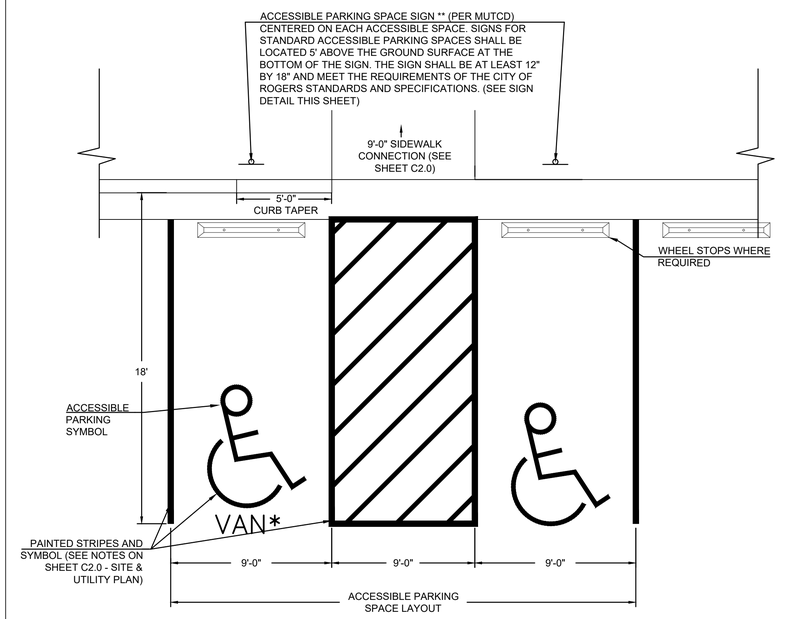


SIDEWALK CURB DETAIL
NOT TO SCALE



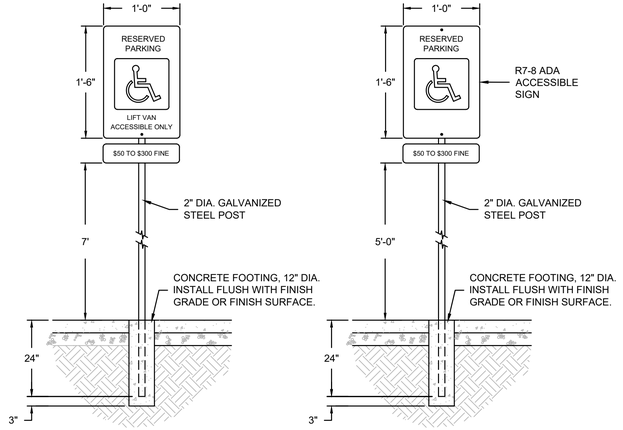
PRE-CAST WHEEL STOP DETAILS
NOT TO SCALE

CURB TRANSITION DETAIL
NOT TO SCALE



ACCESSIBLE PARKING SPACE LAYOUT DETAIL (TYP.)
NOT TO SCALE

ACCESSIBLE PARKING SPACE REQUIRED BY THIS SECTION SHALL BE IDENTIFIED BY A SIGN MOUNTED ON A POLE OR OTHER STRUCTURE, LOCATED 84 INCHES, (7 FEET) ABOVE THE GROUND MEASURED FROM THE BOTTOM OF THE SIGN, AT THE HEAD OF THE PARKING SPACE. THE SIGN SHALL BE AT LEAST 12" BY 18" IN AREA AND MEET THE REQUIREMENTS SET FORTH IN THE MANUAL OF UNIFORM



POLE MOUNTED LIFT VAN ACCESSIBLE SIGN

POLE MOUNTED ACCESSIBLE SIGN
NOT TO SCALE

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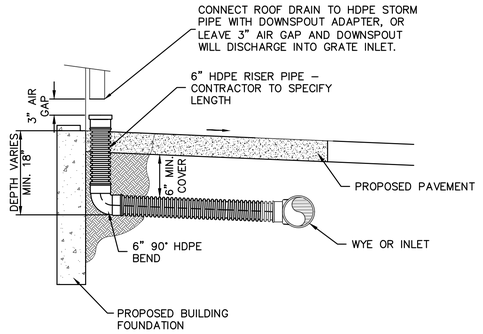
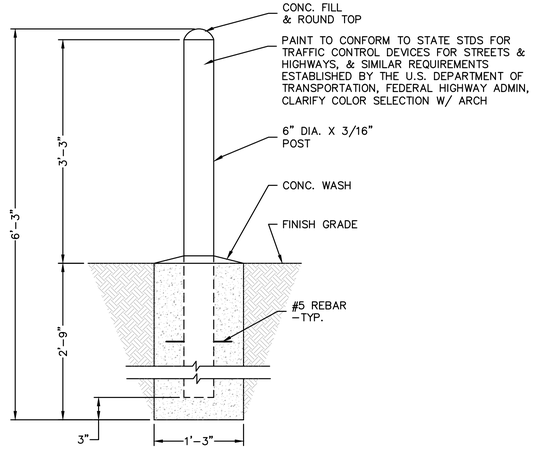
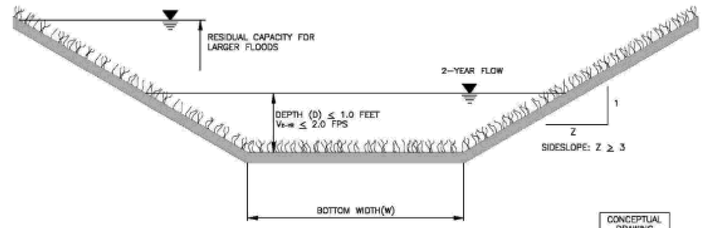


NOTES:
1. ROOF DRAIN CONNECTION SHALL CONSIST OF HDPE 90° BEND, HDPE DOWNSPOUT ADAPTER OR GRATE INLET, AND HDPE PIPE NECESSARY TO MAKE ALL CONNCETIONS.
2. GRATE INLET TO BE SET AT GRADE, WITH 2' SQUARE CONCRETE PAD, IF NOT ALREADY SET IN PAVEMENT).
3. CONTRACTOR TO VERIFY ROOF DRAIN DIMENSIONS AND CONNECTION TYPE WITH OWNER.

ROOF DRAIN PIPE CONNECTION
NOT TO SCALE

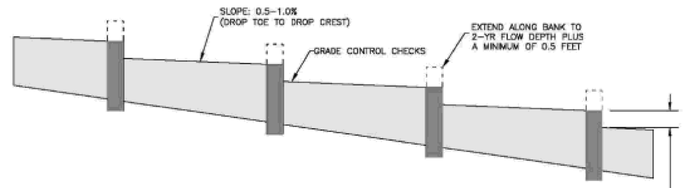


BOLLARD
NOT TO SCALE



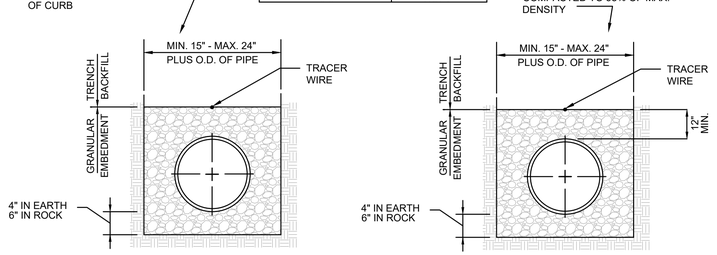
TRAPEZOIDAL GRASS-LINED SWALE SECTION
NTS

CONCEPTUAL DRAWING
NOT FOR CONSTRUCTION
ADAPTED FROM UDFCD USDCM, VOL. 3



GRASS-LINED SWALE PROFILE
NTS

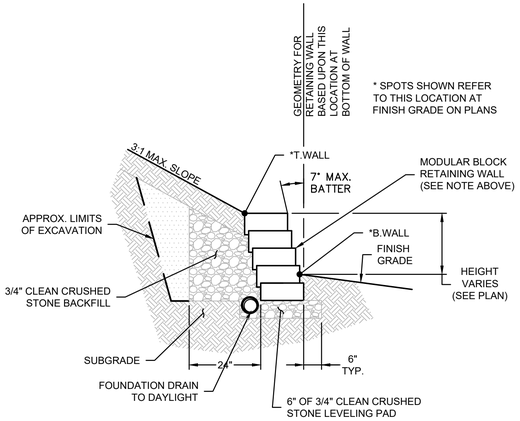
TRENCH BACKFILL REQUIREMENTS	
PERCENT PASSING	SIEVE SIZE
100	3/4-INCH
60-100	1/2-INCH
0-5	NO. 4



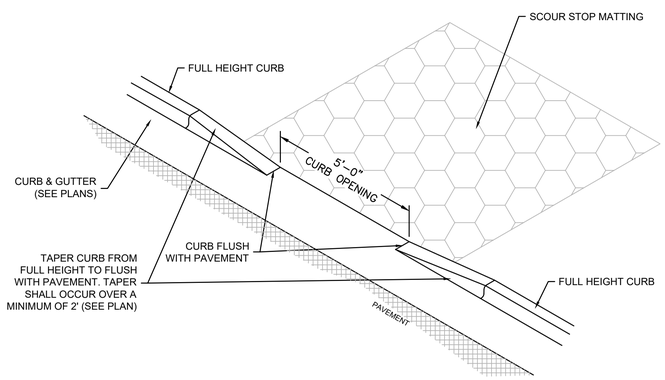
UNDER PAVEMENT
OUTSIDE PAVEMENT

STORM SEWER BEDDING DETAILS
NOT TO SCALE

NOTE:
PROPOSED PRE-CAST CONCRETE MODULAR BLOCK RETAINING WALL. SUBMIT WALL MANUFACTURER'S CUT SHEETS FOR OWNER APPROVAL FOR MAKE, MODEL & COLOR. WALL BLOCK AND CAP COLOR SHALL MATCH BUILDING COLOR



MODULAR BLOCK RETAINING WALL DETAIL
NOT TO SCALE



CURB OPENING FOR DRAINAGE DETAIL
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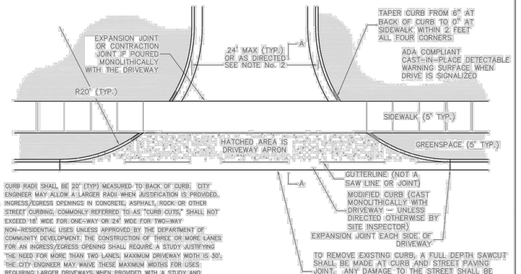

1. CURB RADII SHALL BE 20' (TYP) MEASURED TO BACK OF CURB. CITY ENGINEER MAY ALLOW A LARGER RADII WHEN JUSTIFICATION IS PROVIDED.
2. INGRESS/EGRESS OPENINGS IN CONCRETE, ASPHALT, ROCK OR OTHER STREET CURBING, COMMONLY REFERRED TO AS "CURB CUTS," SHALL NOT EXCEED 18' WIDE FOR ONE-WAY OR 24' WIDE FOR TWO-WAY NON-RESIDENTIAL USES UNLESS APPROVED BY THE DEPARTMENT OF COMMUNITY DEVELOPMENT. THE CONSTRUCTION OF THREE OR MORE LANES FOR AN INGRESS/EGRESS OPENING SHALL REQUIRE A STUDY JUSTIFYING THE NEED FOR MORE THAN TWO LANES. MAXIMUM DRIVEWAY WIDTH IS 30'. THE CITY ENGINEER MAY WAIVE THESE MAXIMUM WIDTHS FOR USES REQUIRING LARGER DRIVEWAYS WHEN PROVIDED WITH A STUDY AND JUSTIFICATION FOR THE USE. DRIVEWAYS ON STATE HIGHWAYS SHALL MEET ARDOT STANDARDS. THIS SHALL APPLY FOR ANY INGRESS/EGRESS EVEN IF NO CURB IS PRESENT.
3. 25' MAX IS ALLOWED FOR DRIVEWAYS TO PARKING LOTS OR PARKING DECKS FOR RESIDENTIAL USE.
4. DRIVEWAY APRON SHALL BE 4" THICK CONCRETE (MIN.).
5. ASPHALT SHALL BE SURFACE COURSE FOR ASPHALT DRIVEWAYS.
6. IF THERE IS NO SIDEWALK, THE DRIVEWAY APRON SHALL BE 6' AS MEASURED PERPENDICULAR FROM BACK OF CURB OR EDGE OF PAVEMENT.
7. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER.
8. CONTRACTION JOINTS TO BE PLACED IN CONCRETE DRIVEWAY SO THAT NO SLAB DIMENSION IS MORE THAN 15'.
9. ALL SIDEWALKS AND DRIVEWAYS TO RECEIVE A BROOM FINISH.
10. CITY SHALL INSPECT ALL SIDEWALKS AND DRIVEWAYS IN PUBLIC RIGHT-OF-WAY PRIOR TO CONCRETE OR ASPHALT PLACEMENT. PROVIDE 24 HOURS' NOTICE PRIOR TO PLACEMENT.
11. ALL CONCRETE FOR CURB, SIDEWALKS AND DRIVEWAYS SHALL BE CLASS B CONCRETE (3500 PSI, 4–7% AIR ENTRAINED). CONCRETE MAY NOT BE PLACED IF A FALLING AIR TEMPERATURE FALLS BELOW 40° F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35° F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
12. DRIVEWAY APRON AND MODIFIED CURB SHALL BE PLACED MONOLITHICALLY.
13. REFER TO APPROVED PLANS FOR ACTUAL SIDEWALK AND GREENSPACE WIDTHS OR CONTACT CITY.
14. APRON SHALL BE GRADED SO THAT SIDEWALK CONTINUES WITHOUT GRADE BREAKS ALONG ROADWAY.
15. DRIVEWAY SHALL BE TINED CONCRETE FOR ANY SLOPES OVER 8%.

CITY OF ROGERS
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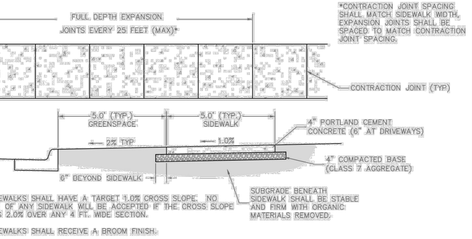
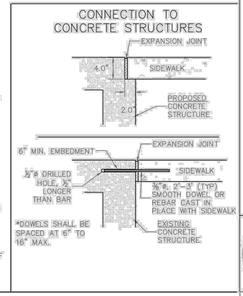
COMMERCIAL DRIVEWAY DETAIL

NOT TO SCALE — APRIL 21, 2025



1. ALL SIDEWALKS SHALL HAVE A TARGET 1.0% CROSS SLOPE. NO PORTION OF ANY SIDEWALK WILL BE ACCEPTED IF THE CROSS SLOPE EXCEEDS 2.0% OVER ANY 4 FT. WIDE SECTION.
2. ALL SIDEWALKS SHALL RECEIVE A BROOM FINISH.
3. ALL SIDEWALK EDGES SHALL HAVE A ½" RADIUS EDGE.
4. ALL CONCRETE SHALL BE CLASS B (3500 PSI, 4–7% AIR ENTRAINED). CONCRETE MAY NOT BE PLACED IF A FALLING AIR TEMPERATURE FALLS BELOW 40° F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35° F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
5. EXPANSION JOINTS SHALL BE A MINIMUM OF ½" AND EXTEND THE FULL DEPTH OF THE CONCRETE. EXPANSION JOINT MATERIAL SHALL MEET AASHTO M213 FOR AN ASPHALTIC FIBER EXPANSION JOINT MATERIAL AND BE INSTALLED WITH A ZIP STRIP WHICH IS REMOVED AFTER THE CONCRETE HAS CURED AND SEALED WITH A MASTIC SEALER. EXPANSION JOINTS SHALL HAVE A MINIMUM ½" DIAMETER BY 2" LONG SMOOTH DOWELS SPACED AT 12" ON CENTER TO PREVENT DIFFERENTIAL SETTLEMENT UNLESS APPROVED IN WRITING TO ALLOW FOR DIFFERENTIAL SETTLEMENT, SUCH AS AGAINST A WALL.
6. CONTRACTION JOINTS SHALL BE PLACED AT 5 FOOT INTERVALS.*
7. WHEN PLACING SIDEWALK AGAINST AN EXISTING CONCRETE STRUCTURE WHERE IT IS DESIRABLE THAT THE SIDEWALK REMAIN FLUSH, THE SIDEWALK SHALL BE DOWELED INTO THE STRUCTURE.
8. ALL SIDEWALK BASE SHALL BE PLACED ON FIRM, STABLE SUBGRADE.
9. CITY SHALL INSPECT ALL SIDEWALKS IN PUBLIC RIGHT OF WAY PRIOR TO CONCRETE PLACEMENT. PROVIDE 24 HOURS' NOTICE PRIOR TO PLACEMENT.
10. CONTACT CITY FOR ACTUAL GREENSPACE AND SIDEWALK WIDTHS REQUIRED PRIOR TO BEGINNING OF CONSTRUCTION. SIDEWALK AND GREENSPACE WIDTH MAY BE VARIED TO MATCH EXISTING FEATURES IF APPROVED BY THE PLANNING STAFF.

CONNECTION TO CONCRETE STRUCTURES



CITY OF ROGERS
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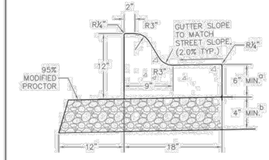
TYPICAL SIDEWALK DETAILS

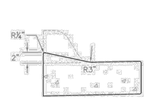
NOT TO SCALE — JULY 15, 2025



STANDARD CURB AND GUTTER

1. CONCRETE SHALL BE CLASS B, 3500 PSI, 4–7% AIR ENTRAINED. CONCRETE MAY NOT BE POURED IF A FALLING AIR TEMPERATURE FALLS BELOW 40° F NOR RESUMED UNTIL AN ASCENDING AIR TEMPERATURE RISES ABOVE 35° F WITHOUT SPECIFIC AUTHORITY FROM THE CITY REPRESENTATIVE. ALL CONCRETE MATERIALS, HANDLING, PLACING, JOINTING, SAMPLING, FINISHING AND CURING SHALL BE PER CITY STANDARD SPECIFICATIONS.
2. CONTRACTION JOINTS SHALL BE PLACED AT 15 FOOT INTERVALS WITH EXPANSION JOINTS AT 75 FOOT INTERVALS.
3. ALL CONTRACTION JOINTS SHALL BE SEALED WITH SONNEBORN® SONOLASTIC SL 1™ (OR APPROVED EQUAL) ACCORDING TO MANUFACTURER'S INSTRUCTIONS PRIOR TO FINAL ASPHALT PLACEMENT.
4. EXPANSION JOINT MATERIAL SHALL BE REQUIRED AT ALL STATIONARY STRUCTURES OR AS DIRECTED BY ENGINEER. THE EXPANSION MATERIAL SHALL BE ½" ASPHALT IMPREGNATED FIBERBOARD CONFORMING TO AASHTO M-213. MATERIAL SHALL BE LEFT LOWER OR TRIMMED TO BE ½" BELOW THE TOP OF CURB.
5. EXPANSION JOINT MATERIAL SHALL BE FULL DEPTH OF THE CURB AND PERPENDICULAR TO THE CURB LINE.
6. ALL CURB AND GUTTER SHALL RECEIVE A BROOM FINISH.
7. CONTRACTOR SHALL PROVIDE THE CITY 24 HOURS NOTICE WHEN FORMS OR STRINGLINE ARE READY PRIOR TO CONCRETE PLACEMENT.
8. FOR CONCRETE STREETS, IF THE CURB AND GUTTER IS CAST SEPARATELY, ½"Ø DOWEL RODS 30" LONG SHALL BE PROVIDED A MINIMUM OF EVERY 30" ON-CENTER.

MODIFIED CURB AND GUTTER
(PLACE ACROSS ALL DRIVEWAYS)



a. IF MONOLITHICALLY CAST WITH THE STREET, THICKNESS SHALL MATCH STREET PAVING THICKNESS.

b. IF PAVEMENT SECTION IS 10" THICK OR MORE, 4" OF CLASS 7 AGGREGATE SHALL EXTEND UNDER CURB AND 1 FOOT BEYOND. IF THE PAVEMENT SECTION IS LESS THAN 10" THICK, THE CURB AND GUTTER MAY BE PLACED ON SUBGRADE. SUBGRADE SHALL BE PROOF-ROLLED BY A LOADED TANDEM-AXLE DUMP TRUCK.

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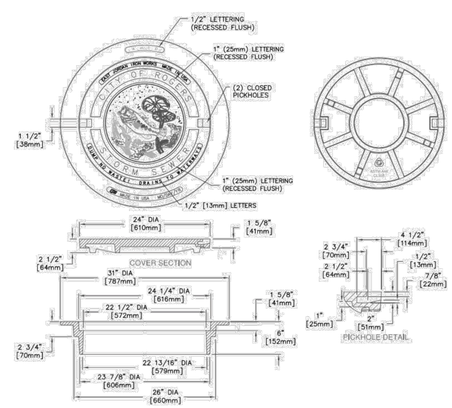
CURB AND GUTTER DETAIL

NOT TO SCALE — JUNE 23, 2015



1. SHALL BE USED ON ALL STORM SEWER MANHOLE COVERS.
2. ALL COVERS SHALL BE RATED HEAVY DUTY.
3. EAST JORDAN IRON WORKS PRODUCT 2750 ASSEMBLY SHOWN, AN APPROVED EQUAL MAY ALSO BE USED.

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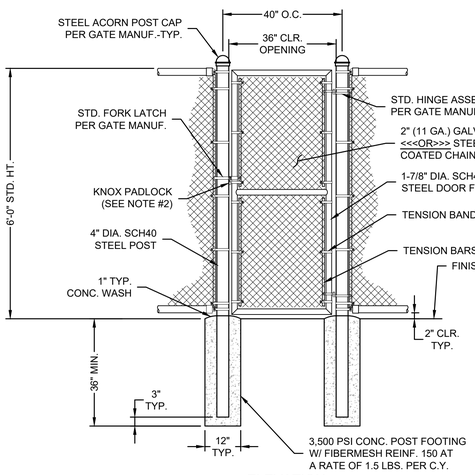
RING AND COVER DETAIL

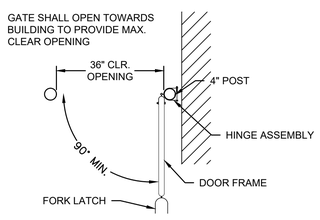
NOT TO SCALE — FEBRUARY 15, 2012

I.10 Manhole Ring and Cover Detail

I.19 Pavement Repair Detail



ELEVATION

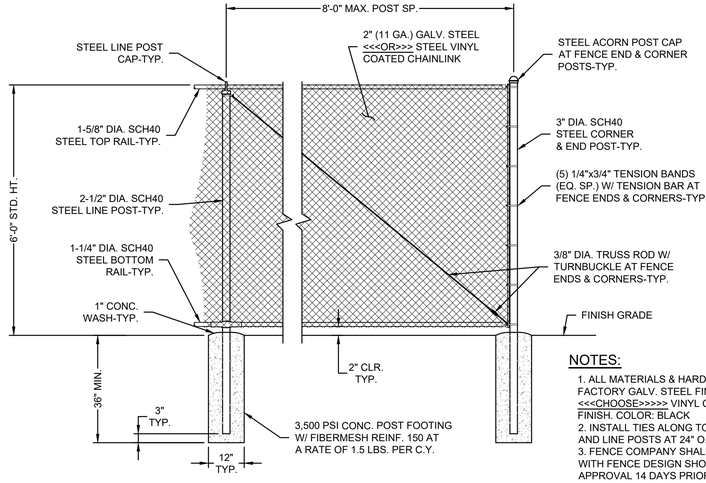


PLAN - GATE ORIENTATION

NOTES:

1. ALL MATERIALS & HARDWARE SHALL HAVE A FACTORY GALV. STEEL FINISH <<<CHOOSE>>>>> VINYL COATED OR PAINTED FINISH. COLOR: BLACK
2. KNOX PADLOCK SHALL BE: KNOX CO., RAPID ENTRY SYSTEM PADLOCK, MODEL NO. 3772, SHROUDED, FOR EXTERIOR USE. MANUF. STANDARD COLOR COORDINATION FOR "FIRE DEPARTMENT". OWNER'S AGENT SHALL COORD. THE KEYING OF THE PADLOCK WITH THE LOCAL AUTHORITY/AUTHORITIES HAVING JURISDICTION PRIOR TO INSTALLATION. (ALTERNATE PADLOCKS NOT ACCEPTED)
3. FENCE COMPANY SHALL PROVIDE ENGINEER WITH FENCE DESIGN SHOP DRAWINGS FOR APPROVAL 14 DAYS PRIOR TO ANY FABRICATION OR ORDERING OF FENCING MATERIALS

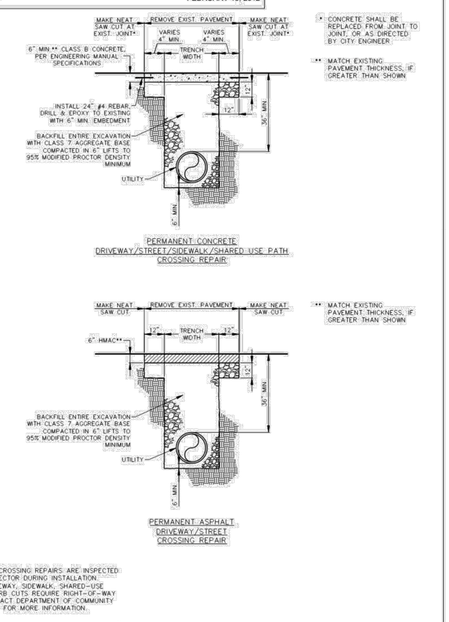
CHAINLINK PEDESTRIAN GATE DETAILS
NOT TO SCALE



6' HT. CHAINLINK FENCE DETAIL
NOT TO SCALE

NOTES:

1. ALL MATERIALS & HARDWARE SHALL HAVE A FACTORY GALV. STEEL FINISH <<<CHOOSE>>>>> VINYL COATED OR PAINTED FINISH. COLOR: BLACK
2. INSTALL TIES ALONG TOP & BOTTOM RAILS AND LINE POSTS AT 24" O.C.
3. FENCE COMPANY SHALL PROVIDE ENGINEER WITH FENCE DESIGN SHOP DRAWINGS FOR APPROVAL 14 DAYS PRIOR TO ANY FABRICATION OR ORDERING OF FENCING MATERIALS



NOTES:

1) ENSURE ALL CROSSING REPAIRS ARE INSPECTED BY CITY INSPECTOR DURING INSTALLATION.
2) STREET, DRIVEWAY, SIDEWALK, SHARED-USE PATH, OR CURB CUTS REQUIRE RIGHT-OF-WAY PERMIT. CONTACT DEPARTMENT OF COMMUNITY DEVELOPMENT FOR MORE INFORMATION.

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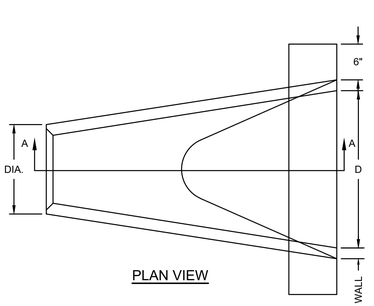
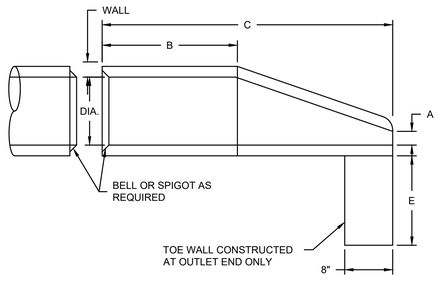
PERMANENT PAVEMENT CROSSING REPAIR

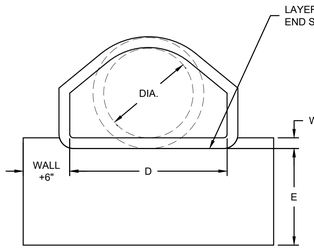
NOT TO SCALE — JANUARY 4, 2024



PLAN VIEW



SECTION A-A



END VIEW

CONCRETE FLARED END SECTION (F.E.S.) DETAILS
NOT TO SCALE

REINFORCEMENT					
ADJOINING PIPE DIA.	BARREL SECTION REINFORCEMENT			FLARE SECTION REINFORCEMENT (ONE LAYER ONLY IN CENTER OF WALL)	
	CIRCULAR		ELLIPTICAL		
	INNER CAGE SQ. IN./ LIN. FT.	OUTER CAGE SQ. IN./ LIN. FT.	SQ. IN./ LIN. FT.	AREA OF LONGITUDINAL SQ. IN./ LIN. FT.	AREA OF TRANSVERSE SQ. IN./ LIN. FT.
12"	0.07			0.048	0.048
15"	0.07			0.054	0.054
18"	0.07		0.07	0.060	0.060
21"	0.07		0.07	0.066	0.066
24"	0.07		0.07	0.072	0.072
30"	0.14		0.12	0.084	0.084
36"	0.12	0.09	0.13	0.096	0.096
42"	0.15	0.12	0.17	0.108	0.108
48"	0.18	0.14	0.20	0.120	0.120
54"	0.22	0.16	0.24	0.132	0.132

DIMENSIONS						
DIA.	WALL	A	B MIN.	C MIN.	D	E
12"	2"	4"	4'-0"	6'	2'-0"	18"
15"	2 1/4"	6"	3'-10"	6'	2'-6"	18"
18"	2 1/2"	9"	3'-10"	6'	3'-0"	18"
21"	2 3/4"	9"	3'-2"	6'	3'-6"	18"
24"	3"	9 1/2"	2'-6"	6'	4'-0"	24"
30"	3 1/2"	1'-0"	1'-7"	6'	5'-0"	24"
36"	4"	1'-3"	2'-10"	8'	6'-0"	24"
42"	4 1/2"	1'-9"	2'-11"	8'	6'-6"	24"
48"	5"	2'-0"	2'-2"	8'	7'-0"	24"
54"	5 1/2"	2'-3"				

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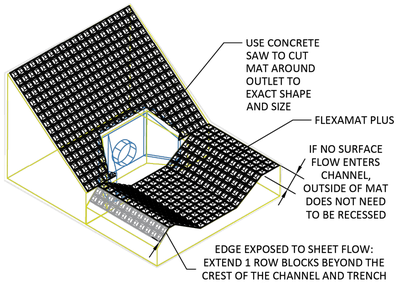
DETAIL SHEET 3

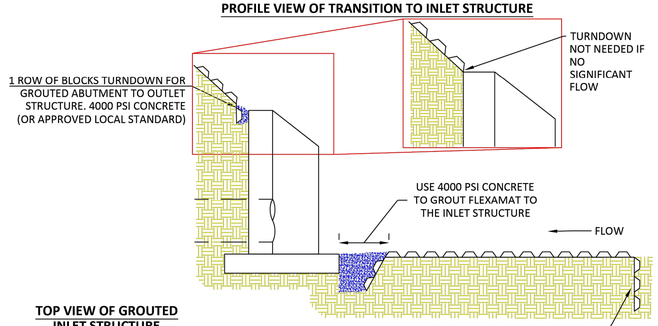
C7.2

BID SET
05/04/2026 025-04961

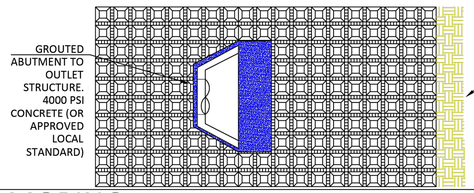
ISOMETRIC VIEW OF INLET AND SLOPE PROTECTION



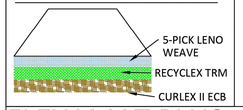
PROFILE VIEW OF TRANSITION TO INLET STRUCTURE



TOP VIEW OF GROUTED INLET STRUCTURE



FLEXAMAT PLUS UNDERLAYMENT



FLEXAMAT PLUS - INLET ARMORING

CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL.
2. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. PRIOR TO FLEXAMAT PLUS INSTALLATION SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL MAT WITH GEOGRID EXTENSION AND PLUS UNDERLAYMENT EXTENSIONS.
   - 3.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
   - 3.2. FOR INLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
   - 3.3. FOR INLET PROTECTION THAT REQUIRES MORE THAN 1 MAT IN LENGTH TO COVER CHANNEL SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
4. AT THE TRANSITION TO THE INLET STRUCTURE, USE 4,000 PSI CONCRETE TO TRANSITION TO THE INLET STRUCTURE.
5. AT THE BEGINNING OF THE ARMORED AREA, ALONG THE INITIAL LEADING EDGE EXPOSED TO FLOW, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH COHESIVE FILL.

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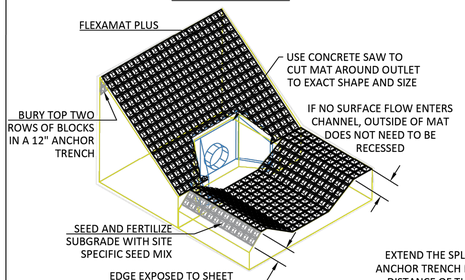
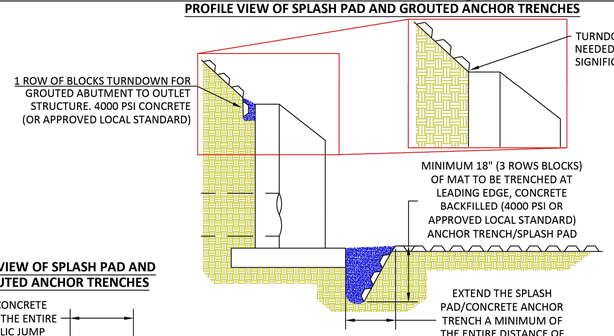
REV - 2

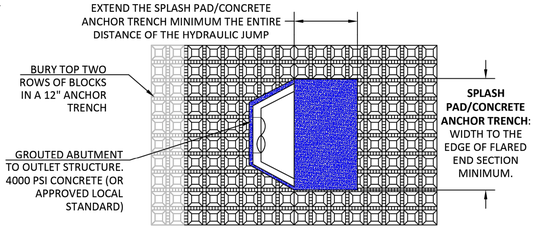
ISOMETRIC VIEW OF OUTLET AND SLOPE PROTECTION



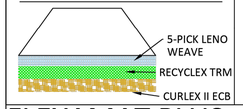
PROFILE VIEW OF SPLASH PAD AND GROUTED ANCHOR TRENCHES



TOP VIEW OF SPLASH PAD AND GROUTED ANCHOR TRENCHES



FLEXAMAT PLUS UNDERLAYMENT



FLEXAMAT PLUS - OUTLET ARMORING

CONSTRUCTION NOTES:

1. GRADE CHANNEL SO THAT WATER WILL FLOW DOWN CENTER OF THE CHANNEL AND BE CONTAINED TO THE CHANNEL. ALL SUBGRADE SURFACES PREPARED FOR PLACEMENT OF MATS SHALL BE SMOOTH AND FREE OF ALL ROCKS, STICKS, ROOTS, OTHER PROTRUSIONS, OR DEBRIS OF ANY KIND. THE PREPARED SURFACE SHALL PROVIDE A FIRM UNYIELDING FOUNDATION FOR THE MATS.
2. PRIOR TO FLEXAMAT PLUS INSTALLATION SEED AND FERTILIZER SUBGRADE WITH SITE SPECIFIC SEED MIX IN ACCORDANCE WITH THE PROJECT PLANS AND SPECIFICATIONS.
3. INSTALL FLEXAMAT ROLLS. AVAILABLE WIDTHS ARE 4', 5.5', 8', 10', 12', AND 16' AVAILABLE IN CUSTOM LENGTHS. FOR WIDTHS WIDER THAN 16', INSTALL 15.5' WIDE MAT WITH 12" GEOGRID EXTENSION AND 6" UNDERLAYMENT EXTENSION.
   - 3.1. WHERE POSSIBLE AVOID LONGITUDINAL ABUTMENT SEAMS IN CHANNEL BOTTOM.
   - 3.2. FOR OUTLET PROTECTION WIDER THAN 16' SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
   - 3.3. FOR OUTLET PROTECTION THAT REQUIRES MORE THAN 1 MAT IN LENGTH TO COVER CHANNEL SEE CHANNEL PARALLEL TO FLOW INSTALLATION DETAIL.
4. AT THE BEGINNING OF CHANNEL, THE INITIAL LEADING EDGE OF FLEXAMAT EXPOSED TO CONCENTRATED FLOW SHALL BE EMBEDDED 18" VERTICALLY INTO ANCHOR TRENCH. THE TRENCH SHALL BE FILLED WITH 4,000 PSI CONCRETE.
5. INFILL FLEXAMAT BLOCKS BELOW HEADWALL WITH 4000 PSI CONCRETE TO CREATE SPLASH PAD PER DIMENSIONS INDICATED. GROUT SHALL EXTEND TO THE TOP OF THE FLEXAMAT BLOCKS.
6. AT THE END OF THE ARMORED CHANNEL, EMBED THE MAT 18" IN A TERMINATION TRENCH. FILL AND COMPACT TERMINATION TRENCH WITH A COHESIVE FILL.

GUIDANCE TABLE FOR STORMWATER OUTFALL PROTECTION

PIPE DIAMETER		FLEXAMAT WIDTH	FLEXAMAT LENGTH (*MIN)
12"	8 CFS	5.5'	5'
18"	20 CFS	8'	8'
24"	30 CFS	8'	10'
36"	75 CFS	12'	16'
48"	100 CFS	16'	20'
60"	150 CFS	20'	25'

*CONSULT MANUFACTURER FOR GUIDANCE IF DESIGN DISCHARGE VARIES SIGNIFICANTLY FROM VALUES LISTED IN TABLE.
*LENGTH OF PROTECTION WILL VARY ON THE LENGTH OF THE SLOPE, DEGREE OF SLOPE, OR IF IT IS DISCHARGING ONTO A FLAT AREA. OUTFALLS DISCHARGING ONTO SLOPES, IT IS RECOMMENDED TO EXTEND FLEXAMAT PLUS THE LENGTH OF THE SLOPE AND 3' PAST THE TOE.

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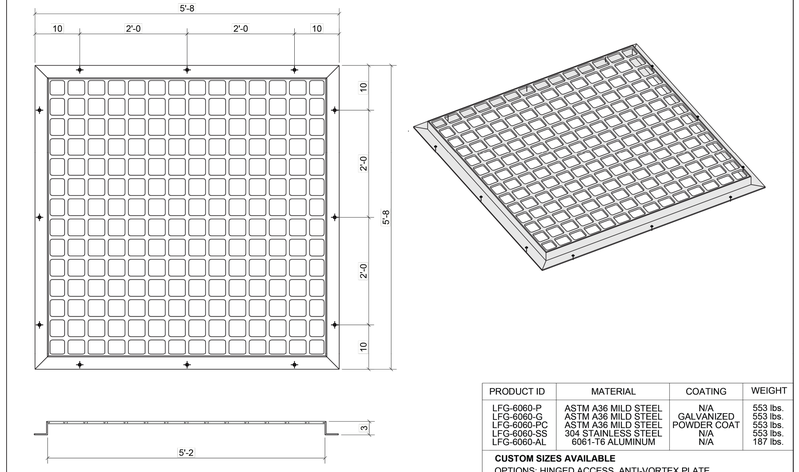

PRODUCT ID	MATERIAL	COATING	WEIGHT
LFG-6060-P	ASTM A36 MILD STEEL	N/A	553 lbs.
LFG-6060-G	ASTM A36 MILD STEEL	GALVANIZED	553 lbs.
LFG-6060-PC	ASTM A36 MILD STEEL	POWDER COAT	553 lbs.
LFG-6060-SS	304 STAINLESS STEEL	N/A	553 lbs.
LFG-6060-AL	6061-T6 ALUMINUM	N/A	187 lbs.

CUSTOM SIZES AVAILABLE
OPTIONS: HINGED ACCESS, ANTI-VORTEX PLATE

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A DIVISION OF J.R.HOE

TITLE:
LFG-6060
60" FLAT INLET GRATE
MADE IN THE U.S.A.

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DETAIL SHEET 4

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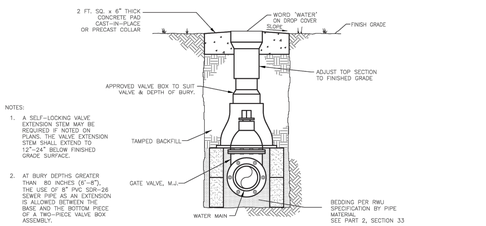
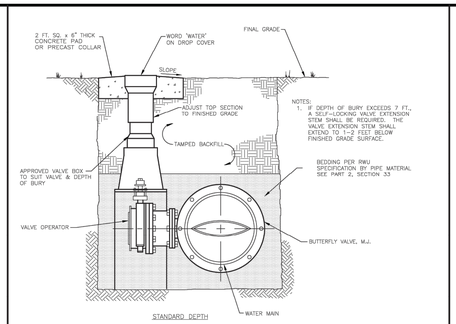
025-04961



NOTES:
1. A SELF-LOCKING VALVE EXTENSION STEM MAY BE REQUIRED IF NOTED ON PLANS. THE VALVE EXTENSION STEM SHALL EXTEND TO 12"-24" BELOW FINISHED GRADE SURFACE.
2. AT BURY DEPTHS GREATER THAN 80 INCHES (6'-8"), THE USE OF 8" PVC SDR-26 SEWER PIPE AS AN EXTENSION IS ALLOWED BETWEEN THE BASE AND THE BOTTOM PIECE OF THE TWO-PIECE VALVE BOX ASSEMBLY.

GATE VALVE DETAIL
N.T.S.

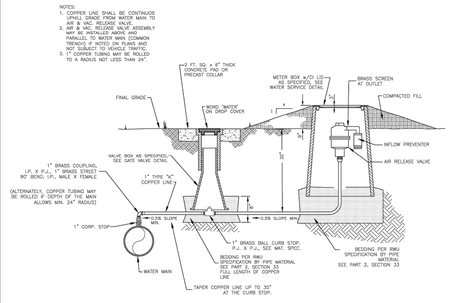
WD-1 / 1 — REV. 12/2021



NOTES:
1. IF DEPTH OF BURY EXCEEDS 7 FT., A SELF-LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 1-2 FEET BELOW FINISHED GRADE SURFACE.

BUTTERFLY VALVE DETAIL
12-INCH WATER MAINS AND LARGER
N.T.S.

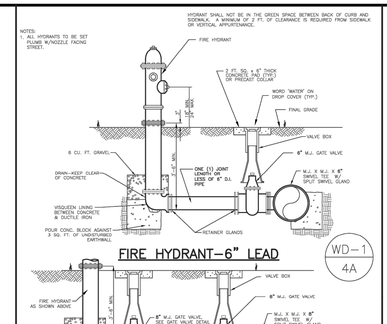
WD-1 / 2 — REV. 12/2021



NOTES:
1. COPPER LINE SHALL BE CONTINUOUS FROM CURB STOP FROM WATER MAIN TO AIR & VAC. RELEASE VALVE.
2. AIR & VAC. RELEASE VALVE ASSEMBLY SHALL BE INSTALLED AT LOCATIONS PARALLEL TO WATER MAIN (COMMON TRENCH) IF NOTED ON PLANS AND NOT SUBJECT TO VEHICLE TRAFFIC.
3. 1" COPPER TUBING MAY BE ROLLED TO A RADIUS NOT LESS THAN 24".

1" AIR & VACUUM RELEASE VALVE ASSEMBLY
N.T.S.

WD-1 / 3 — REV. 12/2021



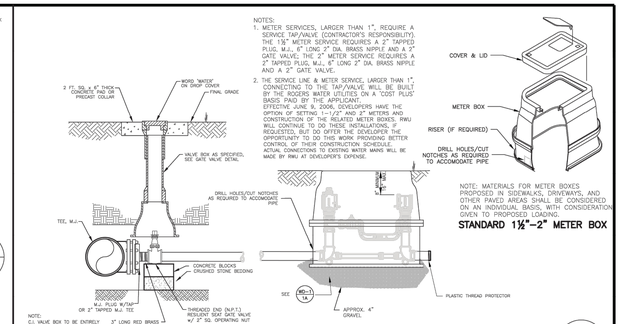
NOTES:
1. ALL HYDRANTS TO BE SET PLUMB W/NOZZLE FACING STREET.

FIRE HYDRANT-6" LEAD

WD-1 / 4A

FIRE HYDRANT-8" LEAD

WD-1 / 4B — REV. 12/2021



NOTES:
1. METER SERVICES, LARGER THAN 1", REQUIRE A SERVICE TAP/VALVE (CONTRACTOR'S RESPONSIBILITY). THE 1½" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J., 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE; THE 2" METER SERVICE REQUIRES A 2" TAPPED PLUG, M.J., 6" LONG 2" DIA. BRASS NIPPLE AND A 2" GATE VALVE.
2. THE SERVICE LINE & METER SERVICE, LARGER THAN 1", CONNECTING TO THE TAP/VALVE WILL BE BUILT BY THE ROGERS WATER UTILITIES ON A "COST PLUS" BASIS. RWU WILL EMPLOY EMPLOYEES HAVE THE OPTION OF SETTING 1-1/2" AND 2" METERS AND CONSTRUCTION OF THE RELATED METER BOXES. RWU WILL CONTINUE TO DO THESE INSTALLATIONS. IF REQUESTED, BUT DO OFFER THE DEVELOPER THE OPPORTUNITY TO DO THIS WORK PROVIDING BETTER CONTROL OF THEIR CONSTRUCTION SCHEDULE. ACTUAL CONNECTIONS TO EXISTING WATER MAINS WILL BE MADE BY RWU AT DEVELOPER'S EXPENSE.

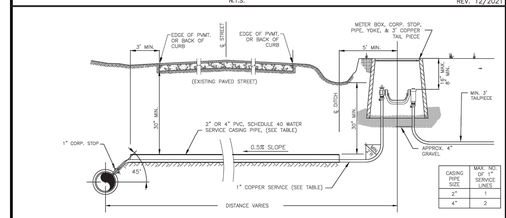
NOTE: MATERIALS FOR METER BOXES PROPOSED IN SIDEWALKS, DRIVEWAYS, AND OTHER PAVED AREAS SHALL BE CONSIDERED ON AN INDIVIDUAL BASIS, WITH CONSIDERATION GIVEN TO PROPOSED LOADING.

STANDARD 1½"-2" METER BOX

STANDARD 1½"-2" WATER SERVICE TAP DETAILS FOR NEW CONSTRUCTION
(CONNECTIONS TO EXISTING MAINS WILL BE MADE BY R.W.U.)
N.T.S.

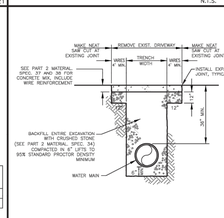
NOTE: CI. VALVE BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. VALVE BOX MUST NOT BEAR ON VALVE/PIPE.

WD-1 / 5 — REV. 12/2021

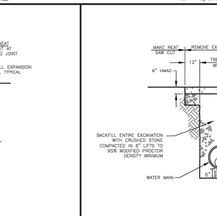


STANDARD 5/8" & 1" WATER SERVICE DETAILS
N.T.S.

WD-1 / 6 — REV. 12/2021



TYPICAL 1" METER BOX DETAIL
(SINGLE ONLY)

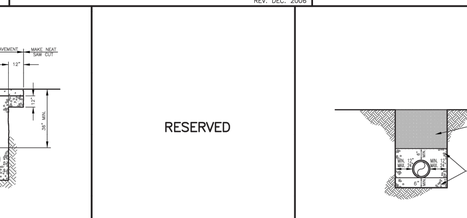


NOTES:
1. INSTALL IN UNPAVED AREAS ONLY.

TYPICAL 5/8" METER BOX DETAIL
(SINGLE & DOUBLE)

5/8" & 1" METER BOX DETAILS
N.T.S.

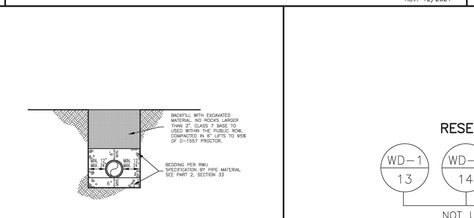
WD-1 / 7 — REV. 12/2021



NOTES:
1. SHOW MANUFACTURER, MODEL NUMBER AND SIZE ON PROJECT PLANS.
2. LOCATE RPZA INSIDE OF A HEATED BUILDING, OR IN A FROST-PROOF ENCLOSURE, AND PRIOR TO THE BRANCH OR CONNECTION.
3. RPZA MUST BE ON THE CURRENT LIST APPROVED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL.

REDUCED PRESSURE ZONE ASSEMBLY (RPZA)

WD-1 / 8 — REV. DEC. 2006



SECTION VIEW

PLAN VIEW

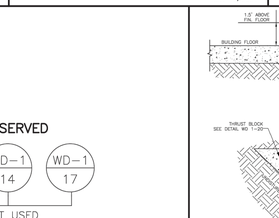
NOTES:
1. CONTRACTOR SHALL LOCATE EXISTING MAIN IN ADVANCE OF LAYING NEW LINE IN ORDER TO ASSURE ADEQUATE LENGTH TO ADJUST DEPTH OF NEW MAIN.
2. DIMENSIONS SHOWN ARE RECOMMENDED MINIMUMS TO PROVIDE ADEQUATE ROOM FOR TIGHTENING BOLTS ON JOINTS. (OTHER DIMENSIONS MAY BE USED).
3. PROVIDE ALL THREAD STAINLESS STEEL TIE RODS WITH EYE BOLTS FOR ANCHORING ALL JOINTS.
4. ROXITE FITTINGS AS REQUIRED TO MATCH.
5. THRUST BLOCKING IS REQUIRED FOR LOWER MJ TEE. REFER TO DETAIL WD-1/20 THIS SHEET.

SEE MAT. SPEC. 02-09 FOR APPROVED MFGS.

SCHEDULE OF TIE RODS		
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
6"-8"	2	3/4"
10"-16"	4	3/4"

SWING CONNECTION – NEW MAIN TO EXISTING MAIN
N.T.S.

WD-1 / 9 — REV. 12/2021

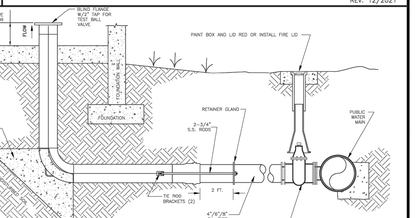


ANCHOR COLLAR SCHEDULE					
PIPE SIZE	DIMENSIONS W	H	M	REINFORCING BARS "A" BARS	"B" BARS
6"	1.5'	2.0'	1.0'	M.J. RETAINER GLAND	#046" #046"
8"	2.0'	2.5'	1.0'	M.J. RETAINER GLAND	#046" #046"
12"	3.0'	4.0'	1.5'	M.J. RETAINER GLAND	#056" #056"
16"	3.5'	5.0'	2.0'	M.J. RETAINER GLAND	#056" #056"
24"	5.5'	7.5'	2.0'	M.J. RETAINER GLAND	#709 10"

ANCHOR COLLAR (ELEVATION)

ANCHOR COLLAR BLOCK
N.T.S.

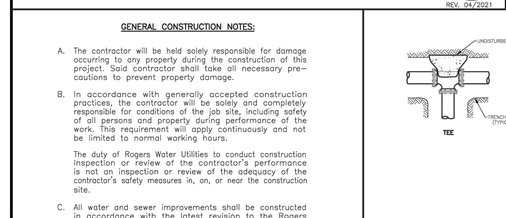
WD-1 / 10 — REV. 12/2021



SCHEDULE OF TIE RODS		
SIZE	NUMBER OF RODS PER FITTING	DIAMETER OF S.S. RODS
6"-8"	2	3/4"
10"-16"	4	3/4"

IN-BUILDING D.I. FIRE SYSTEM RISER LEAD-IN DETAIL
N.T.S.

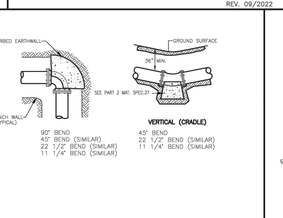
WD-1 / 11A — REV. 12/2021



CASING PIPE SIZE:	MAX. NO. OF 1" SERVICE LINES
2"	1
4"	2

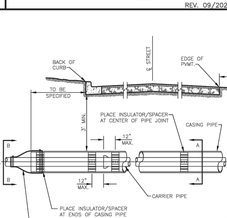
TYPICAL WATER SERVICE LINE WITH P.V.C. CASING PIPE FOR FAR SIDE SERVICE ON EXISTING STREET
N.T.S.

WD-1 / 12 — REV. 04/2021



PERMANENT CONCRETE DRIVEWAY CROSSING REPAIR
N.T.S.

WD-1 / 15 — REV. 09/2022



PERMANENT ASPHALT DRIVEWAY/STREET CROSSING REPAIR
N.T.S.

WD-1 / 16 — REV. 09/2022

RESERVED

WD-1 / 17

TRENCH/PIPE BEDDING DETAIL FOR WATER MAINS
N.T.S.

WD-1 / 18 — REV. SEP. 2022

RESERVED

WD-1 / 13 — WD-1 / 14 — WD-1 / 17

NOT USED

ADH # 115198 D1 A1 Rogers Standard Details 20220929

Digitally signed by Craig Corder
Date: 2022.10.11 12:47:34-05'00'

ccorder 10/11/2022

REV. AUG. 2007

IN-BUILDING STAINLESS STEEL FIRE LINE RISER
N.T.S.

WD-1 / 11B — REV. 04/2021

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary pre-cautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field locations of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said con-tractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

WD-1 / 19

NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
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 and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,500 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

REACTION BACKING TABLE					
REQUIRED SQ. FT. OF UNDISTURBED EARTHWALL FOR REACTION BACKING					
SIZE	TYPE OF FITTINGS				
	TEE OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	3	3	1	1	
6"	4	4	2	2	
8"	6	6	3	2	
12"	10	10	5	3	2
16"	16	26	14	7	4
24"	38	38	20	10	5
30"	59	59	32	16	10

THRUST BLOCKING DETAIL
N.T.S.

WD-1 / 20 — REV. 12/2021

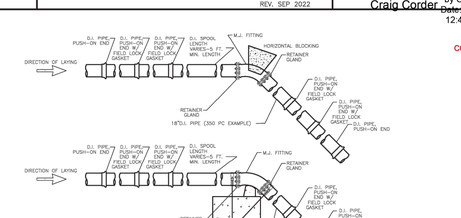
NOTES:
1. A MIN. OF THREE SPACERS IS REQUIRED PER JOINT, SPACED MIDDLE & WELL (MAX. OF 2 FT. SEPARATION OF SPACERS ON PIPE). PROVIDE MIN. 1/2" CLEARANCE BETWEEN I.D. OF CASING PIPE & TOP RUNNER OF SPACER IS 1".
2. ALL D.I. PIPE JOINTS WITHIN CASING SHALL BE "FIELD LOK" GASKET. EACH RESTRAINED JOINT SHALL BE CLEARLY MARKED ON THE PIPE BELL.

SECTION A-A — SECTION B-B

CARRIER & CASING SIZES						
CARRIER	6"	8"	12"	16"	24"	30"
CASING	16"	16"	24"	30"	36"	48"
CASING/WALL THICKNESS	.250	.250	.375	.500	.500	.625

JACK & BORE UNDER ROADWAY DETAIL
N.T.S.

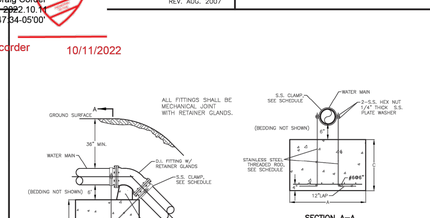
WD-1 / 21 — REV. 12/2021



NOTES:
1. Main size 18" requires two restrained joints (w/field lock gaskets) away from fitting, (36 ft.); main size 24" requires three restrained joints away from fitting, (54 ft.); and main size 30" requires four restrained joints away from fitting (72 ft.), or as specified by Engineer.

FIELD LOCK GASKETS DETAIL FOR HORIZONTAL AND VERTICAL BENDS (TO BE USED IN CONJUNCTION WITH THRUST BLOCKING) FOR 18-INCH AND LARGER WATER MAINS
N.T.S.

WD-1 / 22 — REV. 12/2021



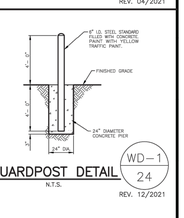
NOTES:
1. All fittings shall be mechanical joint with retainer glands.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
4. Gulf State Hanger # 2-Bolt S.S. pipe clamp, medium-Tig. 80 or approved equal.

BLOCKING SCHEDULE						
SIZE		BEND				
		45°	22 1/2°	11 1/4°		
HORIZONTAL	6"	VOLUME REQ'D (CU.FT.)	42.9	21.9	11.0	
		B (FT.)	6.5	4.8	3.2	
		C (FT.)	3.25	2.5	1.5	3/4 IN.
		D (FT.)	7.0	5.5	3.0	
		CLAMP QTY.	3	3	3	
	12"	VOLUME REQ'D (CU.FT.)	94.1	48.0	24.1	
		B (FT.)	8.5	6.5	4.5	
		C (FT.)	4.25	3.4	2.5	7/8 IN.
		D (FT.)	9.0	4.0	3.0	
		CLAMP QTY.	3	3	3	
	18"	VOLUME REQ'D (CU.FT.)	212	107	54	
		B (FT.)	9.5	8.5	6.0	
		C (FT.)	4.5	3.8	3.25	1 IN.
		D (FT.)	10.0	4.5	3.5	
		CLAMP QTY.	3	3	3	
	24"	VOLUME REQ'D (CU.FT.)	374	191	96	
		B (FT.)	11.0	9.0	8.0	
		C (FT.)	5.5	4.5	3.2	1¼ IN.
		D (FT.)	11.0	5.0	4.0	
		CLAMP QTY.	3	3	3	

VOLUME CALCULATED ON THE BASIS OF CONCRETE REACTING THROUGH ON THE RESPECTIVE BENDS UNDER AN INTERNAL WATER PRESSURE OF 150 PSI AND THE WEIGHT OF CONCRETE IS 150 POUNDS PER CU. FT.

VERTICAL TIE-DOWN BLOCKING DETAIL
N.T.S.

WD-1 / 23 — REV. DEC. 2006



GUARDPOST DETAIL
N.T.S.

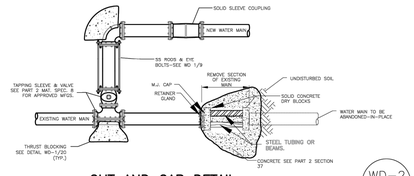
WD-1 / 24 — REV. 12/2021

WATER DETAILS

RWU ROGERS WATER UTILITIES
P.O. DRAWER 338
601 SOUTH 2ND ROGERS, ARKANSAS
72757-0338

REVISION DATE	SHEET NO.
9/20/2022	WD-1

WD-1-2022.DWG

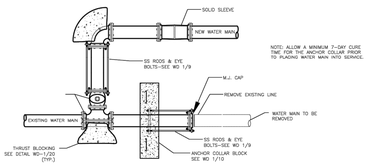


CUT AND CAP DETAIL OPTION A – "HOT–BLOCK"

N.T.S.

WD–2 1A

REV. 12/2021



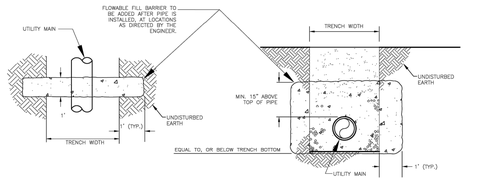
NOTE: ALLOW A MINIMUM 7–DAY CURE TIME FOR THE ANCHOR COLLAR PRIOR TO PLACING WATER MAIN INTO SERVICE.

CUT AND CAP DETAIL #2 OPTION B – "ANCHOR COLLAR"

N.T.S.

WD–2 1B

REV. 01/2022

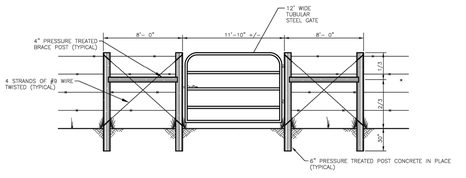


ANTI–SEEPAGE BARRIER COLUMN

N.T.S.

WD–2 6

REV. DEC. 2006



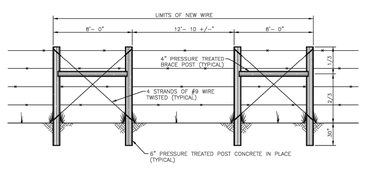
NOTES: 1. H–brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL

N.T.S.

WD–2 7

REV. DEC. 2006



NOTES: 1. H–brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

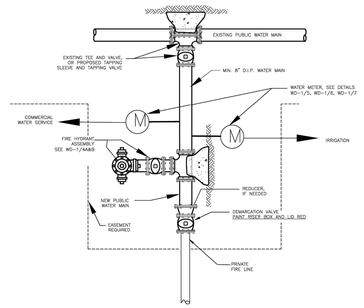
BARBED WIRE FENCE CROSSING REPAIR DETAIL

N.T.S.

WD–2 8

REV. DEC. 2006

WD-2-2CIR.DWG

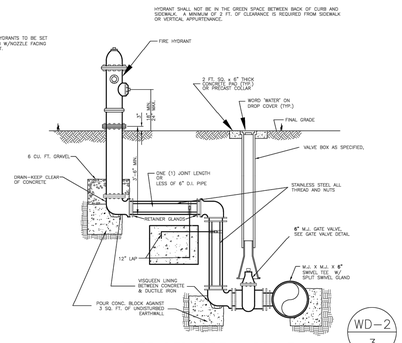


COMMERCIAL, IRRIGATION AND FIRE LINE CONNECTION DETAIL

N.T.S.

WD–2 2

REV. 12/2021

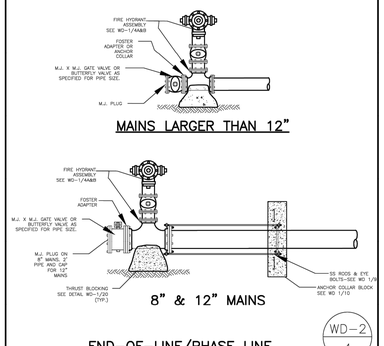


EXTENDED FIRE HYDRANT CONNECTION DETAIL

N.T.S.

WD–2 3

REV. 12/2021



END–OF–LINE/PHASE LINE FIRE HYDRANT DETAIL

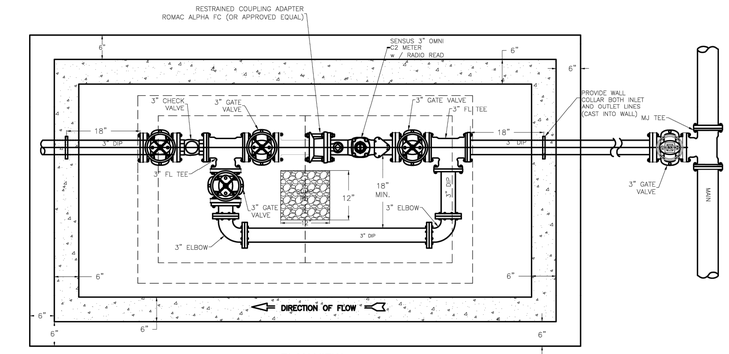
N.T.S.

WD–2 4

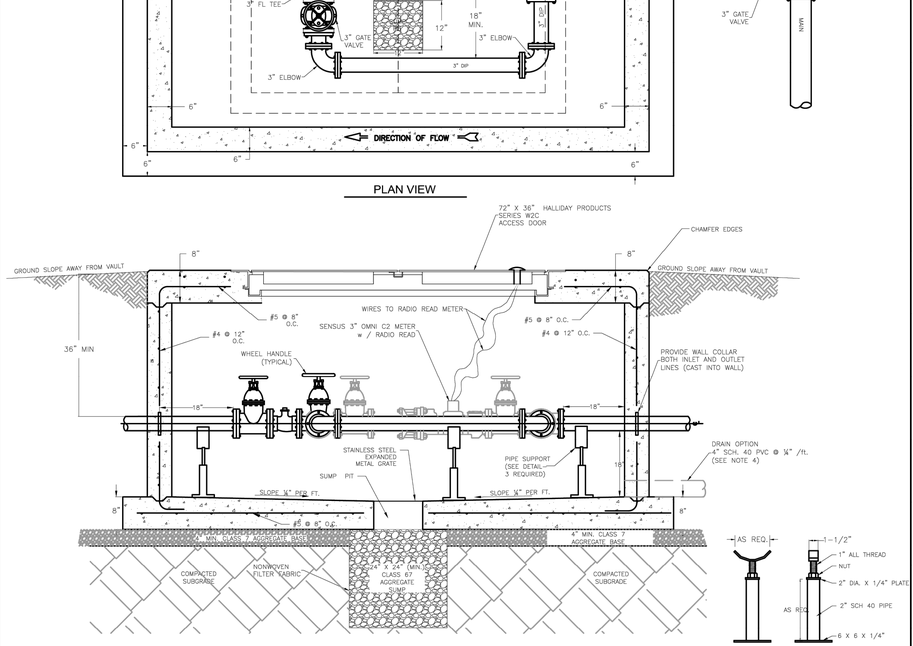
REV. 12/2021

RESERVED

WD–2 5



PLAN VIEW



PROFILE VIEW

ADJUSTABLE PIPE SUPPORT DETAIL

DIMENSION AS SHOWN

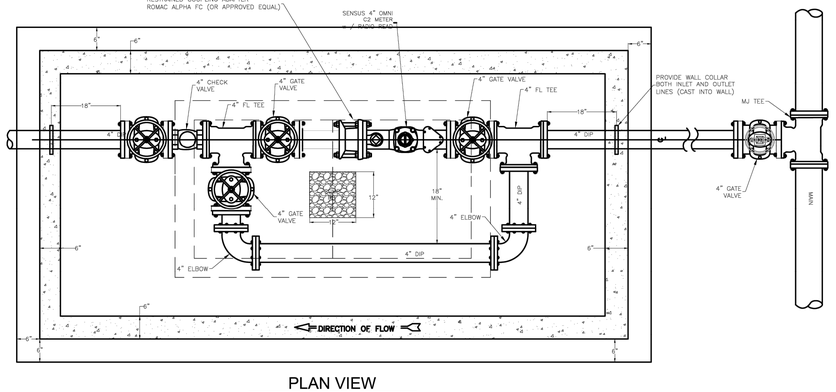
NOTES:

1) METERS WILL BE INCLUDED WITH THE INSTALLATION TO ENSURE PROPER FIT.
2) ALL BOLTS TO BE STAINLESS STEEL.
3) SLOPE FLOOR TO DRAIN.
4) IF POSSIBLE, PROVIDE 4" PVC DRAIN TO DAYLIGHT OR STORM SEWER. PROVIDE PVC CHECK IN DRAIN PIPE. THE AGGREGATE SUMP IS NOT REQUIRED IN THIS CASE.
5) CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI.
6) CONTRACTOR SHALL VERIFY ALL PART DIMENSIONS
7) ALL MATERIALS AND LABOR FOR 3" METER VAULTS (NCLUDING METER) SHALL BE PROVIDED BY THE CONTRACTOR.

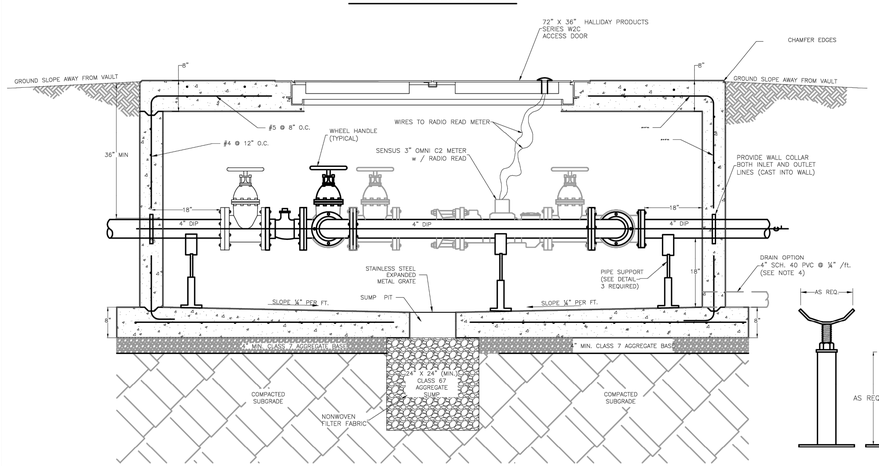
3-INCH METER VAULT NTS

WD–2 9

REV. 09/2022



PLAN VIEW



PROFILE VIEW

ADJUSTABLE PIPE SUPPORT DETAIL

DIMENSION: AS SHOWN

NOTES:

1) METERS WILL BE INCLUDED WITH THE INSTALLATION TO ENSURE PROPER FIT.
2) ALL BOLTS TO BE STAINLESS STEEL.
3) SLOPE FLOOR TO DRAIN.
4) IF POSSIBLE, PROVIDE 4" PVC DRAIN TO DAYLIGHT OR STORM SEWER. PROVIDE PVC CHECK IN DRAIN PIPE. THE AGGREGATE SUMP IS NOT REQUIRED IN THIS CASE.
5) CONCRETE SHALL HAVE A MINIMUM COMPRSSIVE STRENGTH OF 4000 PSI.
6) CONTRACTOR SHALL VERIFY ALL PART DIMENSIONS
7) ALL MATERIAL AND LABOR FOR 4" METER VAULT (INCLUDING METER) SHALL BE PROVIDED BY THE CONTRACTOR.

4-INCH METER VAULT NTS

WD–2 10

REV. 09/2022

WATER DETAILS

ROGERS WATER UTILITIES

P.O. DRAWER 338
601 SOUTH 2ND ROGERS, ARKANSAS
72757–0338

REVISION DATE	SHEET NO.
9/20/2022	WD–2

NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL, AT 12–FOOT ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12–INCH ON CENTERS WITH 12" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 12' 6" IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2–INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE. EXTEND MANHOLE BASE AT LEAST 12" EXCAVATION IN ALL DIRECTIONS 24" MINIMUM.
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A DROP MANHOLE AND IF APPROVED, THE DROP MANHOLE ASSEMBLY IS ONLY ALLOWED IN THE 6–FOOT BARREL SECTION.
2. THE SEWER SERVICE PIPE CROWN ELEVATION ENTERING THE MANHOLE SHALL MATCH THE PIPE CROWN ELEVATION OF THE ENTERING SEWER MAIN.

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS

CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PIPE INVERTS

PIPE AS SPECIFIED ON PLAN OR PROFILE

SEC. B–B

RING & COVER
COMPACT FILL AROUND MANHOLE AS REQUIRED
CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED
24" MIN.
CAST–IN–PLACE
4'–0" MIN.
NO MH. STEPS ALLOWED
6'–0" MIN.
WATER STOP (TYPICAL)
SLOPE TO DRAIN 1½"
8" MIN.
VARIES
SEE PLAN OR PROFILE FOR PIPE SIZE & TYPE
1'–6" MIN.
NO BELLS WITHIN 36" OF BASE OF MANHOLE.
CAST IN PLACE BASE POURED UPON UNDISTURBED SOIL

SEC. A–A

6 FT. CAST–IN–PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD–1 1 REV. 01/2022

NOTES:
1. A MANHOLE BARREL CONSTRUCTION JOINT IS ALLOWED WITHIN A STRAIGHT WALL SEGMENT OF THE BARREL, AT 12–FOOT ABOVE THE MANHOLE BASE AND SHALL HAVE A KEY WAY AND #4 REBAR AT 12–INCH ON CENTERS WITH 12" EMBEDMENT. A WATER STOP SHALL BE USED IF DIRECTED BY THE UTILITY.
2. THE BASE AND WALLS SHALL BE POURED MONOLITHICALLY.
3. THE CENTERLINE OF ALL PIPES ENTERING AND LEAVING MANHOLE SHALL PASS THROUGH THE CENTER OF THE MANHOLE.
4. MANHOLES THAT ARE LESS THAN 4'–FOOT IN DEPTH SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
5. POUR OUTSIDE MANHOLE BASE SO THAT THE TOP OF OUTSIDE BASE IS EVEN OR 2–INCH ABOVE THE CROWN OF THE PIPES ENTERING THE MANHOLE BASE. EXTEND MANHOLE BASE AT LEAST 12" EXCAVATION IN ALL DIRECTIONS 24" MINIMUM.
6. CONSTRUCT FLOW CHANNEL FOR ALL PIPES ENTERING MANHOLE, INCLUDING SERVICES. SLOPE CHANNELS TO MATCH PIPE INVERTS.
7. THE TOP OF MANHOLE TO BE LEVEL WITH FINISHED GRADE, UNLESS OTHERWISE NOTED OR DIRECTED BY THE UTILITY.
8. BRUSH FINISH SURFACES OF CONCRETE AND REMOVE ALL SHARP EDGES.

RING & COVER
#4 @ 6" O.C., E.W.
#4 DOWELS @ 12" O.C.
48" MIN.
CONSTRUCTION JOINT WITH KEY WAY
#4 DIAGONAL BARS, FOUR SIDES

FLAT TOP OPTION
(FLAT TOP OPTION MAY ONLY BE USED IF APPROVED BY THE UTILITY)

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS

CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PIPE INVERTS

PIPE AS SPECIFIED ON PLAN OR PROFILE

SEC. B–B

RING & COVER
COMPACTED FILL AROUND MANHOLE AS REQUIRED
24" MIN.
24" MAX.
NO MH. STEPS ALLOWED
CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED
4'–0" MIN.
8" MIN.
CAST–IN–PLACE
SLOPE TO DRAIN
VARIES
4'–0" MIN.
12" MINIMUM
DISTANCE IS FROM OUTSIDE EDGE OF WALL TO THE EDGE OF BASE.
SEE PLAN OR PROFILE FOR PIPE SIZE & TYPE
NO BELLS WITHIN 36" OF BASE.
CAST IN PLACE BASE POURED UPON UNDISTURBED SOIL

SEC. A–A

NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A DROP MANHOLE AND IF APPROVED, THE DROP MANHOLE ASSEMBLY IS ONLY ALLOWED IN THE 4–FOOT BARREL SECTION.
2. THE SEWER SERVICE PIPE CROWN ELEVATION ENTERING THE MANHOLE SHALL MATCH THE PIPE CROWN ELEVATION OF THE ENTERING SEWER MAIN.

4 FT. CAST–IN–PLACE SANITARY SEWER MANHOLE DETAIL
N.T.S.

SD–1 2 REV. 05/2021

SEWER MAIN
ROTATE BENDS AS REQUIRED TO ALIGN SERVICE BRANCH WITH SERVICE PIPE
FENCE POST
FERNCO GMKXCAP OR SDR 35 PVC CAP
WYE BRANCH

PLAN

ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH
FENCE POST
FERNCO GMKXCAP OR SDR 35 PVC CAP
45° MAXIMUM
1% MIN SLOPE UP TO PROPERTY LINE
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33

PROFILE

NOTES:
1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'– 0".
2. PROVIDE 6" MIN. DEPTH OF CLASS 7 CRUSHED STONE FOR BEDDING AS SPECIFIED FOR MAINS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 6 FOOT STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACK FILL TO FINISHED GRADE OF PROPERTY. A GUARD 6–FOOT TEE FENCE POST SHALL ALSO BE REQUIRED IF BURIED STEEL POST TOP IS BELOW FINISHED GRADE OF PROPERTY.

STANDARD SEWER SERVICE LATERAL
N.T.S.

SD–1 3

ROTATE BENDS AS REQUIRED TO ALIGN SERVICE BRANCH WITH SERVICE PIPE
STAINLESS STEEL REPAIR CLAMP
BORED HOLE UNDER PAVEMENT AND 10' EACH SIDE
SEWER MAIN
WYE BRANCH
FENCE POST
4" DUCTILE IRON PIPE BORED LINED, CLASS 350 – 300 PSIG IN BORE HOLE
FERNCO GMKXCAP

PLAN

EXISTING STREET
5'
BACKFILL
BORED HOLE UNDER PAVEMENT AND MIN. 5' EACH SIDE
ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH
PVC SOLID SLEEVE COUPLING
FERNCO GMKXCAP OR SDR 35 PVC CAP
FENCE POST
45° MAXIMUM
2% MIN SLOPE UP TO PROPERTY LINE
4" PVC SDR=35, INSTALLED IN BORE HOLE ON ENCASEMENT
COMPACT CRUSHED STONE BACKFILL PART 2, SECTION 34 TO PROVIDE SUPPORT

PROFILE

NOTES:
1. MODIFIED RISER LATERAL SHALL BE USED WHEN DEPTH OF COVER EXCEEDS 7'– 0".
2. PROVIDE 6" MIN. DEPTH CRUSHED STONE FOR BEDDING AS SPECIFIED FOR MAINS.
3. SERVICE LATERAL STUBS SHALL TERMINATE AT LEAST 2 FEET INSIDE THE PROPERTY LINE BUT IN NO CASE SHALL THE SERVICE LATERAL STUB TERMINATE AT A DISTANCE LESS THAN 8 FEET FROM THE SANITARY SEWER MAIN.
4. BURY A 6 FOOT STEEL TEE FENCE POST AT END OF SERVICE LATERAL STUB AND BACK FILL TO FINISHED GRADE OF PROPERTY. A GUARD 6–FOOT TEE FENCE POST SHALL ALSO BE REQUIRED IF BURIED STEEL POST TOP IS BELOW FINISHED GRADE OF PROPERTY.

BORED SEWER SERVICE LATERAL UNDER EXISTING STREET
N.T.S.

SD–1 4 REV. 05/2021

REMOVE TOP 24" OF MANHOLE
FILL TO GRADE AS REQUIRED WITH COMPACTED CRUSHED STONE IN PAVED OR GRAVELED AREAS. IN EARTHEN AREAS USE COMPACTED NATIVE FILL MATERIAL WITH TOPSOIL, SEED AND MULCH.
FILL TO BROKEN SECTION WITH CRUSHED STONE
PLUG OR CRUSH EXISTING LINES

SANITARY SEWER MANHOLE ABANDONMENT
N.T.S.

SD–1 5 REV. 05/2021

SEE FRAME & COVER SEE MAT. SPEC 23
COMPACTED FILL AROUND MANHOLE AS REQUIRED
24" MIN.
CAST FRAME INTO MANHOLE WHEN WALLS ARE POURED
MATCH EXISTING
(4'–0")
MATCH EXISTING WALL THICKNESS (8")
NOTES:
1. THE UTILITY MUST APPROVE THE USE OF A MANHOLE EXTENSION.
2. A MANHOLE TO BE LOWERED SHALL BE INDIVIDUALLY DESIGNED PER LOCATION CONDITIONS AND MUST BE APPROVED BY THE UTILITY.
4" MAXIMUM
CAST–IN–PLACE, NON–SHRINK, NON–METALLIC CONCRETE
REMOVE EXISTING CONE SECTION
PROVIDE KEY WAY AT JOINT
#4 x 30" REBAR DOWELS EPOXIED @ 18" O.C. AROUND PERIMETER OF BARREL

SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL
N.T.S.

SD–1 6 REV. 05/2021

#4 BARS AT 8" CC, BOTH WAYS
FRAME & COVER
#4 BARS DIAGONAL TO MAIN REINF.
NOTES:
1. MINIMUM COVER REQUIREMENTS SHALL BE PER ACI 318.
FOR ASPHALT PAVEMENT, SEAL EDGE WITH RUBBERIZED ASPHALT, FOR CONCRETE, PROVIDE EXPANSION JOINT.

TYPICAL REINFORCEMENT FOR CONCRETE APRON

SUPPORT FRAME FROM BEAM LEVEL CONCRETE SECTS
NEAT SAW CUT
±2' MIN.
24" MIN
SONA TUBE
CONCRETE
NOTE: SONA TUBE MUST BE STRIPPED AWAY AFTER CONCRETE PLACEMENT.
NOTES:
1. MINIMUM VERTICAL RAISING ADJUSTMENT USING THIS METHOD = 24", MEASURED FROM TOP OF EXISTING CONE TO THE TOP OF RISER BLOCK.

CONCRETE APRON BLOCK IN PAVED AREAS
N.T.S.

FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN PAVED AREAS, OR FOR MANHOLE SHORTENING IN PAVED AREAS, SEE DETAIL SD–1/6
SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE RIM APRON (PAVED AREAS)
N.T.S.

SD–1 7 REV. 12/2021

PROVIDE AS LARGE A CURVE AS POSSIBLE IN FLOW CHANNELS
CHANNEL IN CONCRETE BASE, BOTTOM OF CHANNEL TO MATCH PROPOSED PIPE INVERTS
PROPOSED PIPE O.D. + 2"
6" MIN.
GREEN HOLE FOR FUTURE SEWER MAIN EXTENSION
2" MIN. MANHOLE WALL MARKING FOR FUTURE EXTENSION
PROPOSED PIPE O.D. + 2"

GREENHOLE/BLOCK OUT FOR FUTURE EXTENSION
N.T.S.

SD–1 8 REV. DEC. 2006

NOTES:
1. IF DEPTH OF BURY EXCEEDS 7' FT., A SELF–LOCKING VALVE EXTENSION STEM SHALL BE REQUIRED. THE VALVE EXTENSION STEM SHALL EXTEND TO 12"–24" BELOW FINISHED GRADE SURFACE.
THE TRACER WIRE SHALL EXTEND
2. ALONG THE OUTSIDE AND TO THE TOP OF THE BOX. 6" LAP SHALL BE PROVIDED INTO THE BOX THREADED THROUGH A CUT AT THE TOP.
2 FT. SQ. X 6" THICK CONCRETE PAD OR PRECAST COLLAR
BORED "SEWER" ON COVER
SLOPE
6"LAP OF TRACER WIRE
APPROVED VALVE BOX RISER
ADJUST TOP SECTION TO FINISHED GRADE
PLUG VALVE, M.J.
VALVE BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/ BRICKS TO SUIT. VALVE BOX MUST NOT BEAR ON VALVE/PIPE.
FORCE MAIN
TRACER WIRE
UNDISTURBED EARTH
CONCRETE BLOCK

4"–12" SEWER FORCE MAIN PLUG VALVE DETAIL
N.T.S.

SD–1 9

GRANULAR BACKFILL TO HERE IF UNDER PAVEMENT
GRANULAR BACKFILL TO HERE IF NOT UNDER PAVEMENT
DETECTABLE WARNING TAPE
MIN. 12" ABOVE TOP OF PIPE
12 GA. COPPER TRACER WIRE
6"
3" MIN. COVER
SEWER MAIN
FORCE MAIN
VARIES
3'
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33

PARALLEL SEWER FORCE MAIN & SANITARY SEWER MAIN
N.T.S.

SD–1 10 REV. 01/2022

PVC SDR–26 4" PVC SDR–26 SERVICE
CURB
2'±
SEWER LATERAL
45° WYE
SEWER MAIN
PVC 2–THREADED CAP & PLUG
GROUND LEVEL
PAVEMENT
H
2–PVC PIPES
ALTERNATE ADDITIONAL RISE AND BEND WHERE REQUIRED BY GREATER SEWER DEPTH
SLOPE UP TO PROPERTY LINE
45° MAXIMUM
2–PVC COMBINATION TEE WYE
CONNECT TO EXISTING SEWER LATERAL WITH WATER TIGHT NON–SHEAR COUPLING
SEWER LATERAL
SEWER MAIN
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33

TWO–WAY CLEANOUTS WILL BE INSTALLED WHEN SEWER SERVICE IS IN THE STREET

4 INCH TWO–WAY SERVICE CLEANOUT
N.T.S.

SD–1 11 REV. DEC. 2006

FRAME & COVER
SUPPORT FRAME USING ANCHOR BOLTS OR THREADED ROD (DRILL & EPOXY INTO MANHOLE WALL)
1' MIN.
24" MIN
SONA TUBE
NATIVE FILL MATERIAL (COMPACTED)
CONCRETE
6" MIN.
6" MIN.
• NOTE: SONA TUBE MUST BE STRIPPED AWAY AFTER CONCRETE PLACEMENT.
1. MAXIMUM VERTICAL RAISING ADJUSTMENT USING THIS METHOD = 24", MEASURED FROM TOP OF EXISTING CONE TO THE TOP OF ADJUSTED RING.

RISER BLOCK ADJUSTMENT

MINIMUM NUMBER OF RISERS NECESSARY TO ACHIEVE GRADE
24" MAX.
2"
2"
COMPACTED FILL AROUND MANHOLE AS REQUIRED
8"
CLASS B CONCRETE COLLAR, 8" AT BASE, 2" AT TOP. TOP MUST COVER LAST RISER JOINT.
NOTE: RISER RING ADJUSTMENT METHOD IS NOT PERMITTED IN AREAS THAT MAY BE SUBJECT TO STORMWATER RUNOFF OR FLOODING.

RISER RING ADJUSTMENT

FOR MANHOLE EXTENSION ADJUSTMENT WHICH EXCEED 24" IN GREEN AREAS, OR FOR MANHOLE SHORTENING IN GREEN AREAS, SEE DETAIL SD–1/6
SANITARY SEWER MANHOLE EXTENSION/SHORTENING DETAIL

MANHOLE RIM ADJUSTMENT (GREEN AREAS)
N.T.S.

SD–1 12 REV. 05/2021

4" MIN
6" MAX
45° WYE BRANCH
CUT PIPE AT SPRINGLINE
GREATER THAN 24"
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL
SEE PLAN OR PROFILE FOR INVERT ELEVATIONS
WATER STOP (TYPICAL)
45° ELBOW

SANITARY SEWER OUTSIDE DROP MANHOLE
N.T.S.

SD–1 13 REV. 01/2022

FLOWABLE FILL BARRIER TO BE ADDED AFTER PIPE IS INSTALLED, AT LOCATIONS AS DIRECTED BY THE ENGINEER.
UTILITY MAIN
TRENCH WIDTH
1'
1' (TYP.)
UNDISTURBED EARTH
MIN. 15" ABOVE TOP OF PIPE
EQUAL TO, OR BELOW TRENCH BOTTOM
1' (TYP.)

ANTI–SEEPAGE BARRIER COLUMN
N.T.S.

SD–1 14 REV. DEC. 2006

MAKE NEAT SAW CUT
REMOVE EXIST. DRIVEWAY
MAKE NEAT SAW CUT AT EXISTING JOINT
WIDEN 4' MIN.
TRENCH WIDTH
WIDEN 4' MIN.
4" 3000 PSI (IN ENTRANCE) AIR E.C. CONCRETE W/ WIRE REINF.
INSTALL EXPANSION JOINT, TYPICAL
12"
12"
36" MIN.
BACKFILL ENTIRE EXCAVATION WITH CRUSHED STONE
DETECTABLE WARNING TAPE MIN. 12" ABOVE TOP OF PIPE (FORCE MAIN ONLY)
12 GA. COPPER TRACER WIRE (FORCE MAIN ONLY)
SEWER MAIN/ FORCE MAIN
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33

CONCRETE DRIVEWAY CROSSING REPAIR
N.T.S.

SD–1 15 REV. 09/2022

MAKE NEAT SAW CUT
REMOVE EXIST. PAVEMENT
MAKE NEAT SAW CUT
12"
TRENCH WIDTH
12"
6" HMAC
12"
36" MIN.
BACKFILL ENTIRE EXCAVATION WITH CRUSHED STONE
DETECTABLE WARNING TAPE MIN. 12" ABOVE TOP OF PIPE (FORCE MAIN ONLY)
12 GA. COPPER TRACER WIRE (FORCE MAIN ONLY)
SEWER MAIN/ FORCE MAIN
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33

ASPHALT DRIVEWAY/STREET CROSSING REPAIR
N.T.S.

SD–1 16 REV. 09/2022

FILL ENTIRE DEPTH WITH CRUSHED STONE IN PUBLIC ROADWAYS
EXCAVATED MATERIAL NO STONES GREATER THAN 3", NO ORGANIC MATERIAL
DETECTABLE WARNING TAPE MIN. 12" ABOVE TOP OF PIPE (FORCE MAIN ONLY)
12 GA. COPPER TRACER WIRE (FORCE MAIN ONLY)
MIN. 12" MAX. 24"
MIN. 12" MAX. 24"
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 3, SECTION 33

TRENCH/PIPE BEDDING DETAIL FOR SEWER FORCE MAINS & SANITARY SEWER MAINS
N.T.S.

SD–1 17 REV. 01/2022

RESERVED

SD–1 18

GENERAL CONSTRUCTION NOTES:

A. The contractor will be held solely responsible for damage occurring to any property during the construction of this project. Said contractor shall take all necessary pre–cautions to prevent property damage.

B. In accordance with generally accepted construction practices, the contractor will be solely and completely responsible for conditions of the job site, including safety of all persons and property during performance of the work. This requirement will apply continuously and not be limited to normal working hours.

The duty of Rogers Water Utilities to conduct construction inspection or review of the contractor's performance is not an inspection or review of the adequacy of the contractor's safety measures in, on, or near the construction site.

C. All water and sewer improvements shall be constructed in accordance with the latest revision to the Rogers Water Utilities Standard Specifications.

D. The contractor is specifically cautioned that the location and/or elevation of existing utilities as shown on these plans is based on records of the various utility companies and, where possible, measurements taken in the field. The information is not to be relied on as being exact or complete. The contractor must call the appropriate utility company at least 48 hours before any excavation to request exact field location of utilities. It shall be the responsibility of the contractor to relocate all existing utilities which conflict with the proposed improvements shown on the plans.

E. Contractor is to remove and dispose of all debris, rubbish and other materials resulting from previous and current demolition operations. Disposal will be in accordance with all local, state and/or federal regulations governing such operations.

F. Prior to installation of any utilities, the contractor is to excavate, verify, and calculate all crossings and inform the Rogers Water Utilities of any conflicts prior to construction.

G. Construction shall not start on any water utility until approval is given by Rogers Water Utilities. Said con–tractor shall not operate any valve, hydrant, or water utility appurtenance nor shall he attach to or tap any water utility main without approval. The contractor shall bear the cost and consequence of any disruption of utility operation caused by construction.

SD–1 19

SD–1 2021.PWG

UNDISTURBED EARTH/WALL
CONCRETE BLOCKING
TRENCH WALL (TYPICAL)
TEE
90° BEND
45° BEND (SIMILAR)
22 1/2° BEND (SIMILAR)
11 1/4° BEND (SIMILAR)
GROUND SURFACE
36" MIN.
VERTICAL (CRADLE)
45° BEND
22 1/2° BEND (SIMILAR)
11 1/4° BEND (SIMILAR)
PLUG VALVE,M.J.
TIE ROD/RETAINER GLAND OR ANCHOR ADAPTER
TEE WITH PLUG

REACTION BACKING TABLE					
REQUIRED SQ. FT. OF UNDISTURBED EARTH/WALL FOR REACTION BACKING					
SIZE	TYPE OF FITTINGS				
	TEE, OR PLUG/CAP	90°	45°	22 1/2°	11 1/4°
4"	1	1	1	1	
6"	2	2	1	1	
8"	3	4	2	1	1
10"	5	6	3	2	1
12"	10	10	5	3	2

NOTES:
1. All fittings shall be mechanical joint.
2. Do not cover bells or flanges with concrete.
3. Wrap all fittings with visqueen.
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 and vertical, shall be backed.
7. Reaction backing table is based on 150 p.s.i. and soil bearing pressure of 2,000 lb./sq. ft. Additional backing may be required in some areas as directed by engineer.

SEWER FORCE MAIN THRUST BLOCKING DETAIL
N.T.S.

SD–1 20 REV. 05/2021

BACK OF CURB
E. STREET
EDGE OF PAVE
TO BE SPECIFIED
5" MIN.
PLACE INSULATOR/SPACER AT CENTER OF PIPE JOINT
CASING PIPE
3" MIN.
3" MIN.
4'±
MAX.
12" MAX.
CARRIER PIPE
PLACE INSULATOR/SPACER AT ENDS OF CASING PIPE
SYNTHETIC RUBBER END SEAL
STAINLESS STEEL CLAMPS/BANDS
NOTES: 1. A MIN. OF THREE SPACERS IS REQUIRED PER JOINT; SPIGOT, MIDDLE & BELL (MAX. 12' APART). TWO SPACERS AT JOINTS MAX. ALLOWABLE CLEARANCE BETWEEN I.D. OF CARRIER PIPE & TOP RUNNER OF SPACER IS 2" MIN.
2. ALL VOIDS WITHIN CASING SHALL HAVE FIELD LOK GASKETS, EACH RESTRAINED JOINT SHALL BE IDENTIFIED AND MARKED ON BELL.
TWO PIECE STAINLESS STEEL BAND CASING INSULATORS/SPACERS
POLYMER RUNNERS
CARRIER PIPE
SYNTHETIC RUBBER END SEAL
STAINLESS STEEL BAND
STAINLESS STEEL JACK
CASING PIPE
STAINLESS STEEL CLAMPS/BANDS
SECTION A–A
SECTION B–B

CARRIER & CASING SIZES									
CARRIER	6"	8"	10"	12"	15"	16"	18"	20"	24"
CASING	16"	16"	18"	24"	30"	30"	30"	36"	36"
CASING/WALL THICKNESS	.250	.250	.250	.375	.500	.500	.500	.500	.500

JACK & BORE UNDER ROADWAY DETAIL
N.T.S.

SD–1 21 REV. 12/2021

METER BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS/BRICKS TO SUIT. BOX MUST NOT BEAR ON PIPE.
POLYMER METER BOX & LID WITH THE WORD "SEWER" CAST INTO LID
PROVIDE 30" DIA. X 6" CONCRETE COLLAR
6"
18"
VARIES
2" AND 3" MAINS
4" AND 6" MAINS
6"
3'
BEDDING PER RWU SPECIFICATION BY PIPE MATERIAL SEE PART 2, SECTION 33
TEE W/2" BRANCH, M.J. W/ RETAINER GLAND
CONCRETE BLOCK
UNDISTURBED EARTH

PVC FORCE MAIN NOTES:
1. TRACER WIRE SHALL BE ACCESSIBLE FOR LOCATING DEVICES AT VALVES AND AIR VAC. RELEASE VALVE BOXES.
1. METER BOX TO BE ENTIRELY SUPPORTED BY CONCRETE BLOCKS / BRICKS TO SUIT. BOX MUST NOT BEAR ON PIPE.

SEWER FORCE MAIN AIR AND VACUUM RELEASE VALVE ASSEMBLY
N.T.S.

SD–1 22 REV. 12/2021

12' WIDE TUBULAR STEEL GATE
8'– 0"
12'– 0"
8'– 0"
4" PRESSURE TREATED BRACE POST (TYPICAL)
4 STRANDS OF #9 WIRE TWISTED (TYPICAL)
1/3
1/3
1/3
30"
6" PRESSURE TREATED POST (TYPICAL)
NOTES: 1. H–brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

FARM GATE INSTALLATION DETAIL
N.T.S.

SD–1 23

SEE MATERIAL SPECIFICATIONS FOR APPROVED MANUFACTURERS
LIMITS OF NEW WIRE
8'– 0"
12'– 0"
8'– 0"
4" PRESSURE TREATED BRACE POST (TYPICAL)
4 STRANDS OF #9 WIRE TWISTED (TYPICAL)
1/3
1/3
1/3
30"
6" PRESSURE TREATED POST (TYPICAL)
NOTES: 1. H–brace units shall be installed prior to cutting existing fence
2. Height of post to match existing posts.
3. New wire shall be the same type as existing fence.

BARBED WIRE FENCE CROSSING REPAIR DETAIL
N.T.S.

SD–1 25

6" I.D. STEEL STANDARD FILLED WITH CONCRETE PAINT WITH YELLOW TRAFFIC PAINT.
FINISHED GRADE
4'– 0"
4'– 0"
3'
24" DIA.
24" DIAMETER CONCRETE PIER

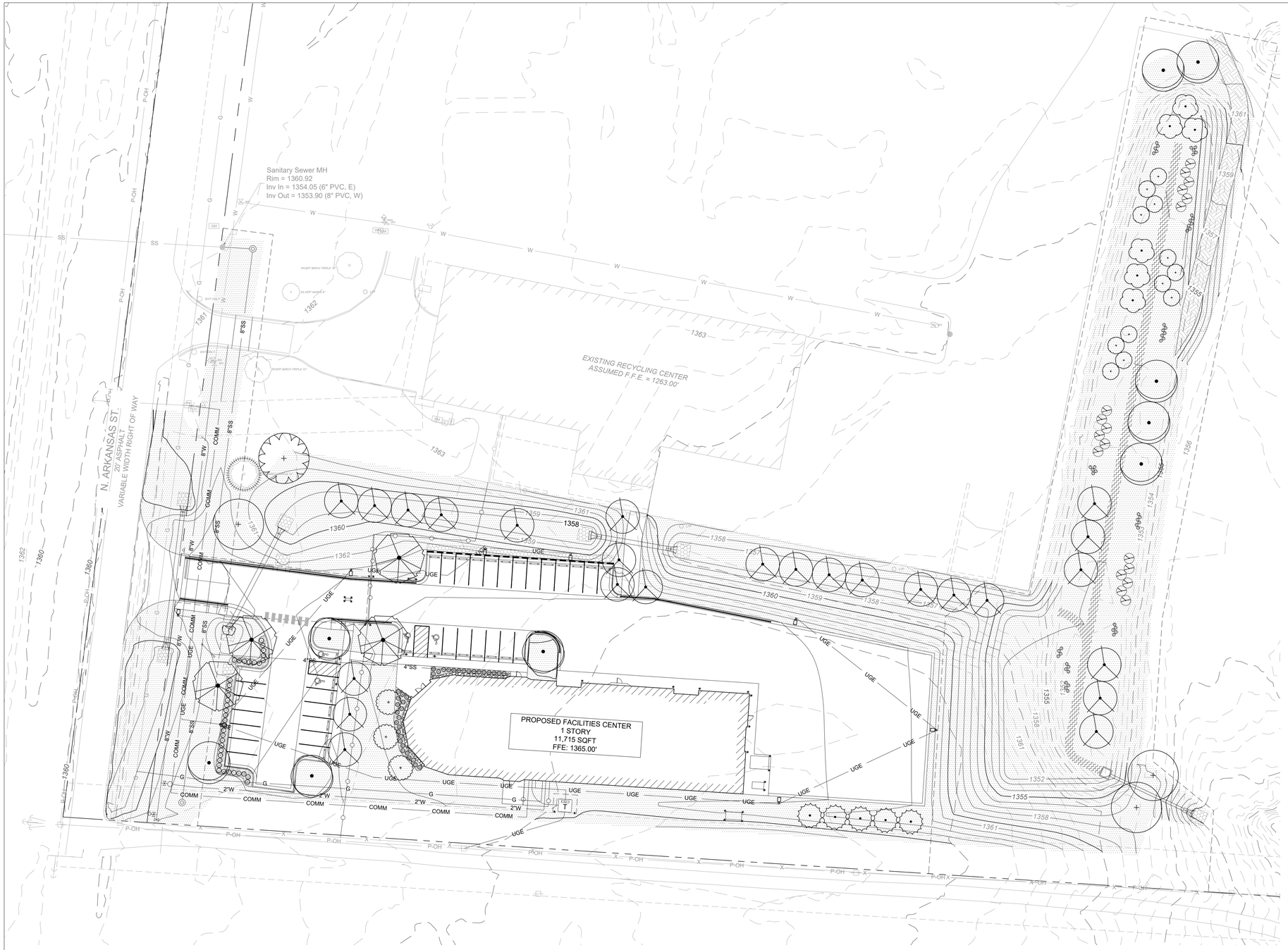
GUARDPOST DETAIL
N.T.S.

SD–1 24

SEWER DETAILS

RWU ROGERS WATER UTILITIES
P.O. DRAWER 338
601 SOUTH 2ND ROGERS, ARKANSAS 72757–0338

REVISION DATE	SHEET NO.
9/20/2022	SD–1



LANDSCAPE REQUIREMENTS

'S' STREET TREES:

TREE SPACING SHALL BE 30' FOR SMALL SPECIES, 40' FOR MEDIUM SPECIES, AND 50' FOR LARGE SPECIES. ALL TREES SHALL BE CANOPY SHADE TREES, UNLESS A UTILITY CONFLICT EXISTS. STREET TREES SHALL BE A MIX OF SPECIES WITH NO MORE THAN 40% OF ANY SINGLE SPECIES.

N ARKANSAS ST (204 LF / 50) =
REQUIRED: 4 TREES
PROVIDED: 4 TREES

TREES SHALL NOT BE PLANTED WITHIN THE FOLLOWING DISTANCES OF THE INFRASTRUCTURE: 25' OF ANY STREET CORNER, DEFINED AS THE POINT WHERE THE CURBS OR CURB LINES INTERSECT; OR 20' OF LIGHT POLES; OR 10' OF FIRE HYDRANTS. ONLY UNDERSTORY TREES MAY BE USED WITHIN 20' OF OVERHEAD UTILITIES OR WITHIN 10' OF UNDERGROUND UTILITIES.

'O' OPEN SPACE TREES:

CANOPY TREES SHALL BE PROVIDED AT A RATE OF 1 TREE PER 1,000 SF OF ADDED IMPERVIOUS AREA PLUS 1 TREE PER 2,500 SF OF ADDED BUILDING FLOOR AREA. (THESE TREES MAY ALSO COUNT TOWARD VEHICULAR USE AREA AND PATH TREE REQUIREMENTS.)

(34,196 SF / 1,000) + (11,715 SF / 2,500) =
REQUIRED: 38 TREES
PROVIDED: 38 TREES

PATH TREES:

WHERE POSSIBLE, CANOPY SHADE TREES SHALL BE PLANTED ALONG THE SOUTH AND WEST SIDES OF ALL PATHS SO AS TO CAST SHADE FOR PEDESTRIANS AND CYCLISTS USING THE PATHS.

VEHICULAR USE AREAS:

CANOPY SHADE TREES SHALL BE PLACED 1 EVERY 15 PARKING SPACES.

'D' DRY DETENTION BASIN VEGETATION:

(27,270 SF / 3,000) =
CANOPY TREES: 9 REQUIRED, 9 PROVIDED
UNDERSTORY TREES: 18 REQUIRED, 18 PROVIDED
LARGE SHRUBS: 18 REQUIRED, 18 PROVIDED
LARGE GRASS-LIKE PLANTS: 54 REQUIRED, 54 PROVIDED

LANDSCAPE MATERIAL:

NO MORE THAN 25% OF NEW TREES MAY BE ORNAMENTAL.
A MINIMUM 10% OF NEW TREES MUST BE EVERGREEN.

HATCH LEGEND

- BERMUDA SOD
- DOUBLE SHREDDED HARDWOOD MULCH
- 2"-3" WASHED RIVER ROCK
- CAREX STRICTA (TUSSOCK SEDGE) 4" POTS @ 12" O.C.

KEYNOTES:

1. STEEL EDGING (SEE DETAIL, SHEET L2.0)
2. OMIT WEED BARRIER FABRIC IN AREAS OF MASS PLANTING AND DETENTION POND
3. TREE PROTECTION FENCING (SEE DETAIL, SHEET C5.2)

*SEE ENLARGED PLANTING PLANS (L1.1-L1.2) FOR PLANT SCHEDULE

N

0' 15' 30' 60'
SCALE IN FEET

NOT FOR CONSTRUCTION

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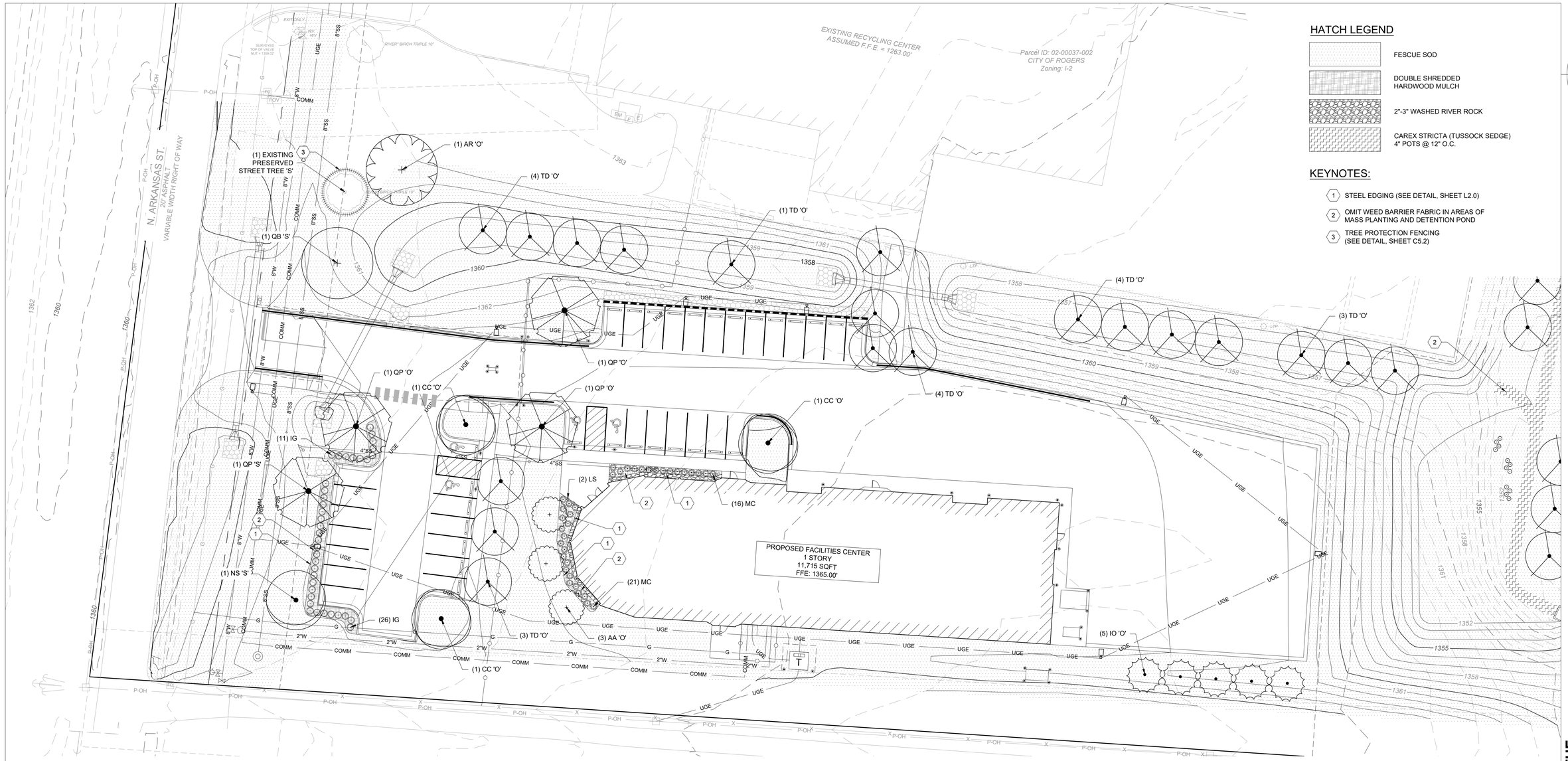
OVERALL PLANTING PLAN

L1.0

BID SET
05/04/2026 025-04961



HATCH LEGEND

- FESCUE SOD
- DOUBLE SHREDDED HARDWOOD MULCH
- 2"-3" WASHED RIVER ROCK
- CAREX STRICTA (TUSSOCK SEDGE) 4" POTS @ 12" O.C.

KEYNOTES:

1. STEEL EDGING (SEE DETAIL, SHEET L2.0)
2. OMIT WEED BARRIER FABRIC IN AREAS OF MASS PLANTING AND DETENTION POND
3. TREE PROTECTION FENCING (SEE DETAIL, SHEET C5.2)

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	NOTES
	QP	4	QUERCUS PHELLOS WILLOW OAK	2.5" CAL.	B&B	6' HT. MIN.
	QB	3	QUERCUS BICOLOR SWAMP WHITE OAK	2.5" CAL.	B&B	6' HT. MIN.
	NS	6	NYSSA SYLVATICA BLACK TUPELO	2.5" CAL.	B&B	6' HT. MIN. NATIVE SPECIES
	AR	1	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5" CAL.	B&B	6' HT. MIN.
	TD	25	TAXODIUM DISTICHUM 'MICKELSON' SHAWNEE BRAVE SHAWNEE BRAVE BALD CYPRESS	2.5" CAL.	B&B	6' HT. MIN.
	CC	3	CERCIS CANADENSIS EASTERN REDBUD	2" CAL.	B&B	6' HT. MIN. NATIVE SPECIES
	AA	3	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	2" CAL.	B&B	6' HT. MIN.
	AC	6	AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY	2" CAL.	B&B	6' HT. MIN.

EVERGREEN TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	NOTES
	IO	5	ILEX OPACA AMERICAN HOLLY	8' HT. MIN.	B&B	FULL PLANT
	IC	12	ILEX CASSINE DAHOON HOLLY	8' HT. MIN.	B&B	FULL PLANT
DECIDUOUS SHRUBS						
	CS	18	CORNUS SERICEA 'CARDINAL' RED TWIG DOGWOOD	3 GAL.	FULL PLANT	
EVERGREEN SHRUBS						
	IG	37	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	3 GAL.	FULL PLANT	24" HT. MIN.
GRASSES						
	MC	37	MUHLENBERGIA CAPILLARIS REGAL MIST PINK MUHLY GRASS	1 GAL.	FULL PLANT	
	CL	60	CHASMANTHIUM LATIFOLIUM NORTHERN SEA OATS	1 GAL.	FULL PLANT	
VINES						
	LS	2	LONICERA SEMPERVIRENS 'MAJOR WHEELER' MAJOR WHEELER CORAL HONEYSUCKLE	1 GAL.	FULL PLANT	TRAIN TO ARCH. TRELLIS

0' 10' 20' 40'
SCALE IN FEET

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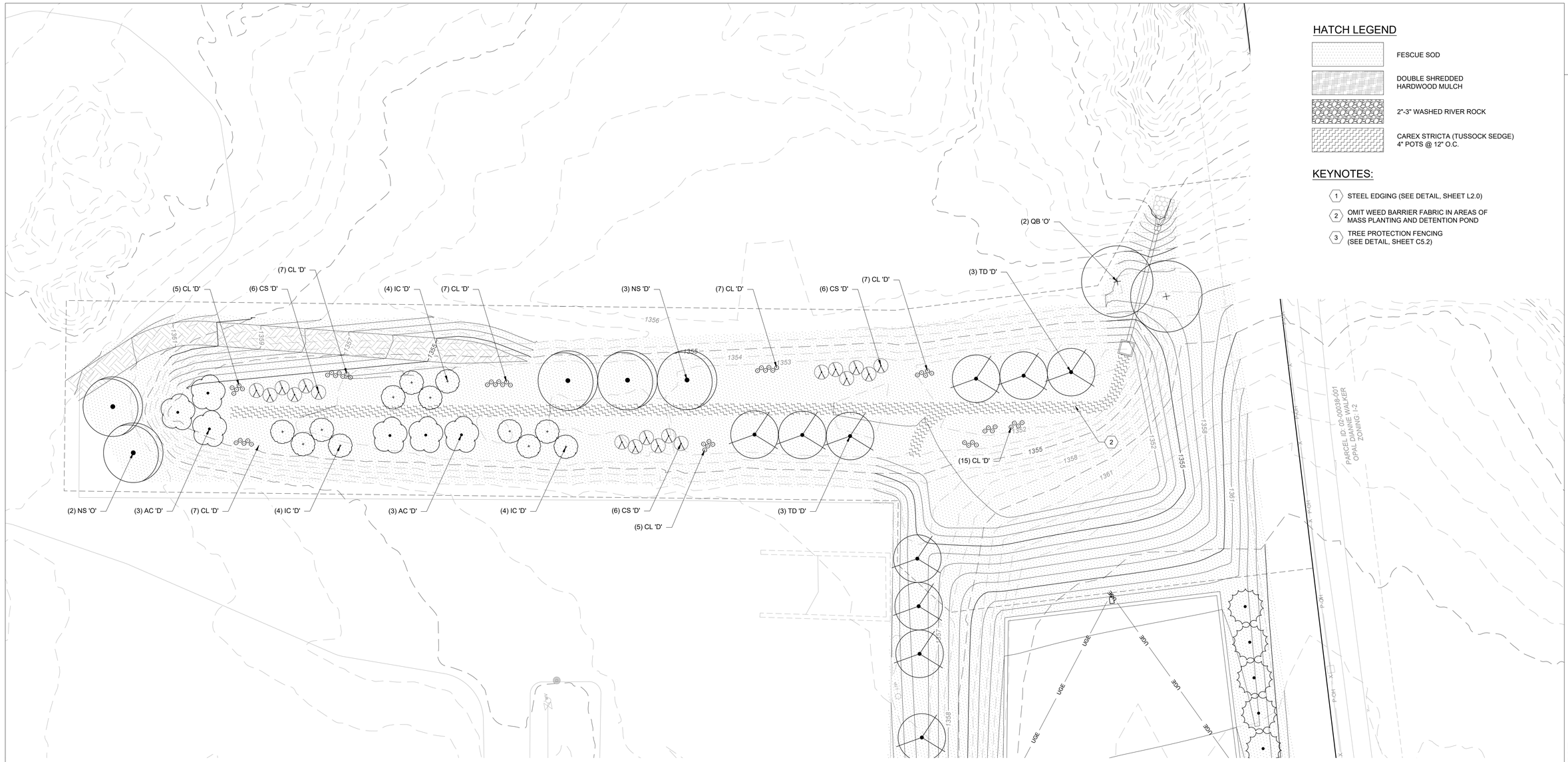
PLANTING PLAN I

L1.1

BID SET
05/04/2026 025-04961



HATCH LEGEND

- FESCUE SOD
- DOUBLE SHREDDED HARDWOOD MULCH
- 2"-3" WASHED RIVER ROCK
- CAREX STRICTA (TUSSOCK SEDGE) 4" POTS @ 12" O.C.

KEYNOTES:

1. STEEL EDGING (SEE DETAIL, SHEET L2.0)
2. OMIT WEED BARRIER FABRIC IN AREAS OF MASS PLANTING AND DETENTION POND
3. TREE PROTECTION FENCING (SEE DETAIL, SHEET C5.2)

NOT FOR CONSTRUCTION

PLANT SCHEDULE

DECIDUOUS TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	NOTES
	QP	4	QUERCUS PHELLOS WILLOW OAK	2.5" CAL.	B&B	6' HT. MIN.
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	AR	1	ACER RUBRUM 'OCTOBER GLORY' OCTOBER GLORY RED MAPLE	2.5" CAL.	B&B	6' HT. MIN.
	TD	25	TAXODIUM DISTICHUM 'MICKELSON' SHAWNEE BRAVE SHAWNEE BRAVE BALD CYPRESS	2.5" CAL.	B&B	6' HT. MIN.
	CC	3	CERCIS CANADENSIS EASTERN REDBUD	2" CAL.	B&B	6' HT. MIN. NATIVE SPECIES
	AA	3	AMELANCHIER ARBOREA DOWNY SERVICEBERRY	2" CAL.	B&B	6' HT. MIN.
	AC	6	AMELANCHIER CANADENSIS SHADBLOW SERVICEBERRY	2" CAL.	B&B	6' HT. MIN.

EVERGREEN TREES	CODE	QTY	BOTANICAL / COMMON NAME	SIZE	CONTAINER	NOTES
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	IC	12	ILEX CASSINE DAHOON HOLLY	8' HT. MIN.	B&B	FULL PLANT
DECIDUOUS SHRUBS						
	CS	18	CORNUS SERICEA 'CARDINAL' RED TWIG DOGWOOD	3 GAL.	FULL PLANT	
EVERGREEN SHRUBS						
	IG	37	ILEX GLABRA 'SHAMROCK' SHAMROCK INKBERRY HOLLY	3 GAL.	FULL PLANT	24" HT. MIN.
GRASSES						
	MC	37	MUHLENBERGIA CAPILLARIS REGAL MIST PINK MUHLY GRASS	1 GAL.	FULL PLANT	
	CL	60	CHASMANTHIUM LATIFOLIUM NORTHERN SEA OATS	1 GAL.	FULL PLANT	
VINES						
	LS	2	LONICERA SEMPERVIRENS 'MAJOR WHEELER' MAJOR WHEELER CORAL HONEYSUCKLE	1 GAL.	FULL PLANT	TRAIN TO ARCH. TRELLIS

N

0' 10' 20' 40'
SCALE IN FEET

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PLANTING PLAN II

L1.2

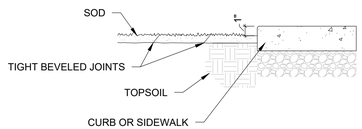
BID SET
05/04/2026 025-04961

PLANTING NOTES

1. ALL WORK SHALL BE COORDINATED WITH THE WORK OF OTHER TRADES.
2. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITY LINES AND OTHER ABOVE OR BELOW GROUND OBSTRUCTIONS SO THAT PROPER PRECAUTIONS SHALL BE TAKEN NOT TO DISTURB OR DAMAGE SUCH IMPROVEMENTS. REFER TO CIVIL AND MEP DRAWINGS FOR PROPOSED AND EXISTING UTILITY LOCATIONS.
3. STANDARDS SET FORTH IN "AMERICAN STANDARDS FOR NURSERY STOCK" REPRESENT GENERAL GUIDELINE SPECIFICATIONS ONLY AND WILL CONSTITUTE MINIMUM QUALITY REQUIREMENTS FOR PLANT MATERIAL.
4. THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY PLANT MATERIAL NOT MEETING SPECIFICATIONS.
5. ALL TREES SHALL BE CALIPERED AND UNDERSIZED TREES SHALL BE REJECTED. SPECIFIED CALIPER MEASUREMENT FOR TREES SHALL BE MEASURED AT 6" ABOVE THE GRADE.
6. ANY MATERIAL WHICH DIES, OR DEFOLIATES (PRIOR TO ACCEPTANCE OF THE WORK) WILL BE PROMPTLY REMOVED AND REPLACED.
7. THE CONTRACTOR IS RESPONSIBLE FOR SOIL SAMPLING AND TESTING TO DETERMINE EXACT FERTILIZER REQUIREMENTS.
8. PLANTS AND OTHER MATERIALS ARE QUANTIFIED AND SUMMARIZED FOR THE CONVENIENCE OF THE CITY AND LOCAL GOVERNING BODIES. CONFIRM AND INSTALL SUFFICIENT QUANTITIES TO COMPLETE THE WORK AS DRAWN.
9. THE LANDSCAPE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
10. BACKFILL TREE AND SHRUB PITS WITH A PREPARED PLANTING MIX AS FOLLOWS UNLESS NOTED OTHERWISE:
    - 2 PARTS BY VOLUME TOPSOIL
    - 1 PART BY VOLUME BROWN RIVER SAND
    - 1 PART BY VOLUME PEAT MOSS
    - 1 LB. COMMERCIAL SLOW RELEASE FERTILIZER PER CY OF MIX.
11. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL SHRUB BEDS PRIOR TO THE INSTALLATION OF ANY PLANT MATERIAL.
12. ALL PLANTING BEDS AND TREE PITS SHALL RECEIVE A MINIMUM OF 24" OF THE SPECIFIED PLANTING MIX.
13. ALL LANDSCAPE PLANTING AREAS, EXCLUDING TURF AREAS, SHALL BE MULCHED WITH A 3" LAYER OF DOUBLE GROUND HARDWOOD MULCH FREE OF STAINS, DYES, AND CYPRESS WOOD, AFTER INSTALLATION OF PLANT MATERIAL. REFER TO DETAILS FOR LOCATION OF MULCH. USE DOUBLE GROUND HARDWOOD MULCH AROUND TREES IN LAWN AREAS. IF TREES OCCUR IN PLANTING BEDS, USE THE BED MULCH SPECIFIED.
14. ALL WOODY SHRUB PLANTING MATERIAL SHALL MEASURE A MINIMUM OF 24" IN HEIGHT AT THE TIME OF PLANTING, UNLESS OTHERWISE NOTED.
15. INSTALL STEEL EDGING TO SEPARATE ALL MULCHED PLANTING AREAS AND GRAVEL AREAS FROM TURF AREAS. REFER TO DETAIL ON THIS SHEET.
16. INSTALL WOVEN BLACK LANDSCAPE WEED BARRIER FABRIC (DEWITT 20 YEAR, 4.1 OZ. WOVEN WEED BARRIER FABRIC OR EQUAL) UNDER RIVER ROCK MULCH AREAS. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
17. THE PLAN IS SUBJECT TO CHANGES BASED ON PLANT SIZE AND MATERIAL AVAILABILITY. ANY DEVIATION TO THE APPROVED FINAL LANDSCAPE PLAN SHALL REQUIRE THE WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
18. LANDSCAPE CONTRACTOR SHALL PROVIDE UNIT COSTS AND POSSIBLE ALTERNATES FOR PLANT MATERIAL TO THE LANDSCAPE ARCHITECT.
19. KILL AND REMOVE ALL EXISTING WEEDS FROM THE SITE AREA PRIOR TO PLANTING.
20. THE ENTIRE SURFACE TO BE PLANTED SHALL BE REASONABLY SMOOTH AND FREE FROM STONES, ROOTS, OR OTHER DEBRIS.
21. PLANTING SEASON RUNS FROM MARCH 1ST TO JUNE 1ST AND SEPTEMBER 1ST TO NOVEMBER 1ST.
22. THE CONTRACTOR IS RESPONSIBLE FOR COMPLETELY MAINTAINING THE WORK (INCLUDING BUT NOT LIMITED TO; WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF ALL PLANTING AND TURF AREAS UNTIL TOTAL ACCEPTANCE OF THE WORK BY THE LANDSCAPE ARCHITECT AND OWNER.
23. LANDSCAPE CONTRACTOR IS TO BE RESPONSIBLE FOR WATERING ALL PLANT MATERIALS UNTIL FINAL ACCEPTANCE OF THE PROJECT.
24. CONTRACTOR WILL STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. CONTRACTOR SHALL HAVE OWNERS REPRESENTATIVE APPROVE ALL STAKING PRIOR TO INSTALLATION.
25. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
26. DECIDUOUS ORNAMENTAL TREES MUST BE BALLED-AND-BURLAPPED, AT LEAST 2-INCH CALIPER AND AT LEAST 6 FEET TALL AT TIME OF PLANTING.
27. DECIDUOUS SHADE TREES MUST BE BALLED-AND-BURLAPPED, AT LEAST 2.5-INCH CALIPER, AND AT LEAST 6 FEET TALL AT TIME OF PLANTING.
28. EVERGREEN TREES MUST BE BALLED-AND-BURLAPPED AND AT LEAST 8 FEET TALL AT TIME OF PLANTING.
29. WITHIN THE TREE PROTECTION ZONE, THE FOLLOWING ACTIVITIES ARE PROHIBITED: CONSTRUCTION ACTIVITY, STORAGE OF CONSTRUCTION MATERIALS OR VEHICLES, AND FILLING OR CUTTING OF SOIL.
30. SEE EROSION CONTROL DETAILS (SHEET C5.2) FOR TREE PROTECTION FENCING DETAIL.

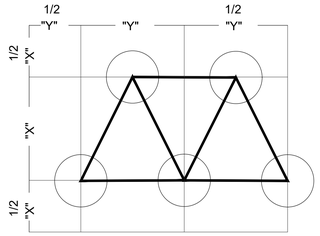
SOD NOTES

1. UNLESS OTHERWISE NOTED ON PLANS, ALL DISTURBED AREAS SHALL BE SODDED WITH TURF-TYPE BERMUDA SOD WITH A MINIMUM OF 3 CULTIVARS.
2. ALL LAWN AREAS SHALL RECEIVE A MINIMUM 6-INCH DEPTH OF TOPSOIL COMPACTED TO 85% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
3. THE ENTIRE SURFACE TO BE SODDED SHALL BE REASONABLY SMOOTH AND FREE FROM STONES, ROOTS, OR OTHER DEBRIS.
4. SOD SHALL BE MACHINE STRIPPED AT A UNIFORM SOIL THICKNESS OF APPROXIMATELY 1-1/4 INCH (PLUS OR MINUS 1/4-INCH). THE MEASUREMENT FOR THICKNESS SHALL EXCLUDE TOP GROWTH AND THATCH, AND SHALL BE DETERMINED AT THE TIME OF CUTTING IN THE FIELD. PRECAUTIONS SHALL BE TAKEN TO PREVENT DRYING AND HEATING. SOD DAMAGED BY HEAT AND DRY CONDITIONS, AND SOD CUT MORE THAN 18 HOURS BEFORE BEING INCORPORATED INTO THE WORK SHALL NOT BE USED.
5. HANDLING OF SOD SHALL BE DONE IN A MANNER THAT WILL PREVENT TEARING, BREAKING, DRYING AND OTHER DAMAGE. PROTECT EXPOSED ROOTS FROM DEHYDRATION. DO NOT DELIVER MORE SOD THAN CAN BE LAID WITHIN 24 HOURS.
6. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. WATER THOROUGHLY AND ALLOW SURFACE TO DRY BEFORE INSTALLING SOD. FERTILIZE, HARROW OR RAKE FERTILIZER IN THE TOP 1-1/2-INCHES OF TOPSOIL, AT A UNIFORM RATE OF ONE POUND OF NITROGEN PER 1000 S.F.
7. SOD SHALL BE CAREFULLY PLACED IN THE DIRECTION PARALLEL WITH THE SLOPE OF THE AREA TO BE SODDED. SOD STRIPS SHALL BE BUTTED TOGETHER BUT NOT OVERLAPPED WITH THE SEAMS STAGGERED ON EACH ROW.
8. FERTILIZER SHALL BE 20-10-5 COMMERCIAL FERTILIZER OF THE GRADE, TYPE, AND FORM SPECIFIED AND SHALL COMPLY WITH THE RULES OF THE STATE OF ARKANSAS DEPT. OF AGRICULTURE. FERTILIZER SHALL BE IDENTIFIED ACCORDING TO THE PERCENT N, P, K, IN THAT ORDER.
9. ALL SOD IN DRAINAGE WAYS SHALL BE PINNED. ALL SOD ON SLOPES GREATER THAN 5:1 SHALL BE PINNED.
10. SATURATE SOD WITH FINE WATER SPRAY WITHIN TWO HOURS OF PLANTING. DURING FIRST WEEK AFTER PLANTING, WATER DAILY OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF FOUR INCHES BELOW SOD.
11. CONTRACTOR SHALL PROVIDE FULL MAINTENANCE FOR SODDED TURF GRASS FOR A PERIOD OF 30 DAYS AFTER THE DATE OF FINAL ACCEPTANCE. AT THE END OF THE MAINTENANCE PERIOD, A HEALTHY, WELL-ROOTED, EVEN-COLORED, VIABLE TURF MUST BE ESTABLISHED. THE TURF GRASS SHALL BE FREE OF WEEDS, OPEN JOINTS, BARE AREAS, AND SURFACE IRREGULARITIES.

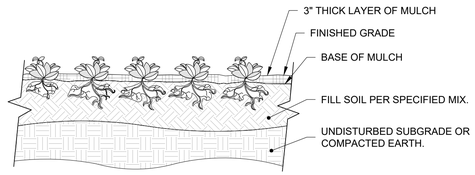


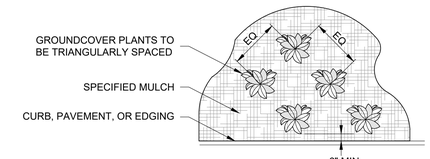
SOD INSTALLATION
NOT TO SCALE

NOTE:
SPACING PATTERN APPLIES TO ALL PERENNIALS, GROUNDCOVERS, AND BULBS UNLESS OTHERWISE SPECIFIED.
X= VARIES
Y= VARIES



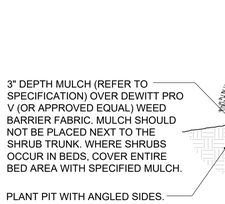
GROUNDCOVER LAYOUT DETAIL
NOT TO SCALE





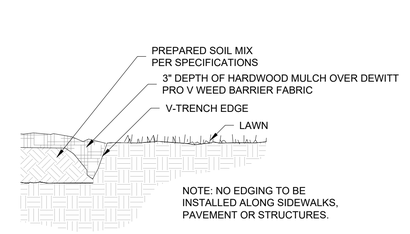
NOTES:
1. SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSIONS
2. SMALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING
3. SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING

GROUNDCOVER PLANTING DETAIL
NOT TO SCALE



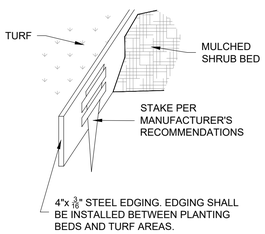
SHRUB PLANTING DETAIL
NOT TO SCALE

NOTES:
1. MINIMUM ROOT SPREAD TO BE IN ACCORDANCE WITH AAN STANDARDS
2. PRUNE DAMAGED LIMBS OR ROOTS AFTER INSTALLATION
3. MAKE SURE ROOTS DO NOT DRY OUT DURING INSTALLATION
4. SOAK GENEROUSLY TO COMPACT AND SETTLE

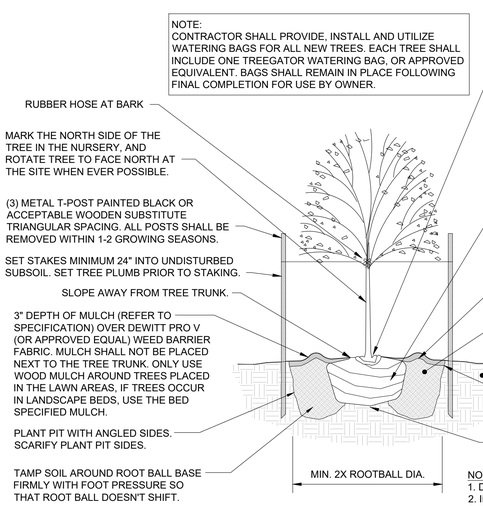


NOTE: NO EDGING TO BE INSTALLED ALONG SIDEWALKS, PAVEMENT OR STRUCTURES.

V-TRENCH EDGING DETAIL
(AROUND TREES IN LAWN AREA)
NOT TO SCALE

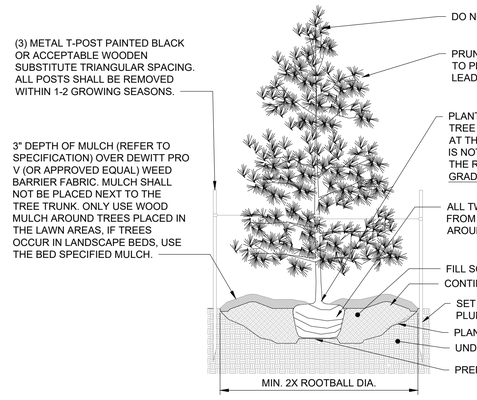


STEEL EDGING DETAIL
(AROUND PERIMETER OF SHRUB PLANTING BED)
NOT TO SCALE



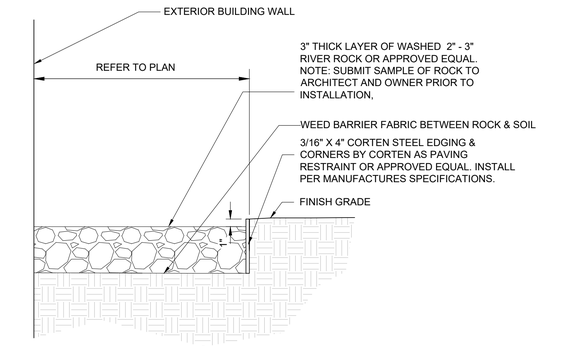
NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

DECIDUOUS TREE PLANTING DETAIL
NOT TO SCALE



NOTES:
1. DO NOT ALLOW AIR POCKETS TO FORM WHEN BACKFILLING
2. IN AREAS OF TURF, SURROUND BED WITH 6' DIAMETER OF MULCH
3. DO NOT HEAVILY PRUNE THE TREE AT PLANTING. PRUNE ONLY CROSSOVER LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. SOME INTERIOR TWIGS AND LATERAL BRANCHES MAY BE PRUNED; HOWEVER, DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.

EVERGREEN TREE PLANTING
NOT TO SCALE



ROCK MULCH DETAIL
NOT TO SCALE

NOT FOR CONSTRUCTION

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LANDSCAPE DETAILS

L2.0

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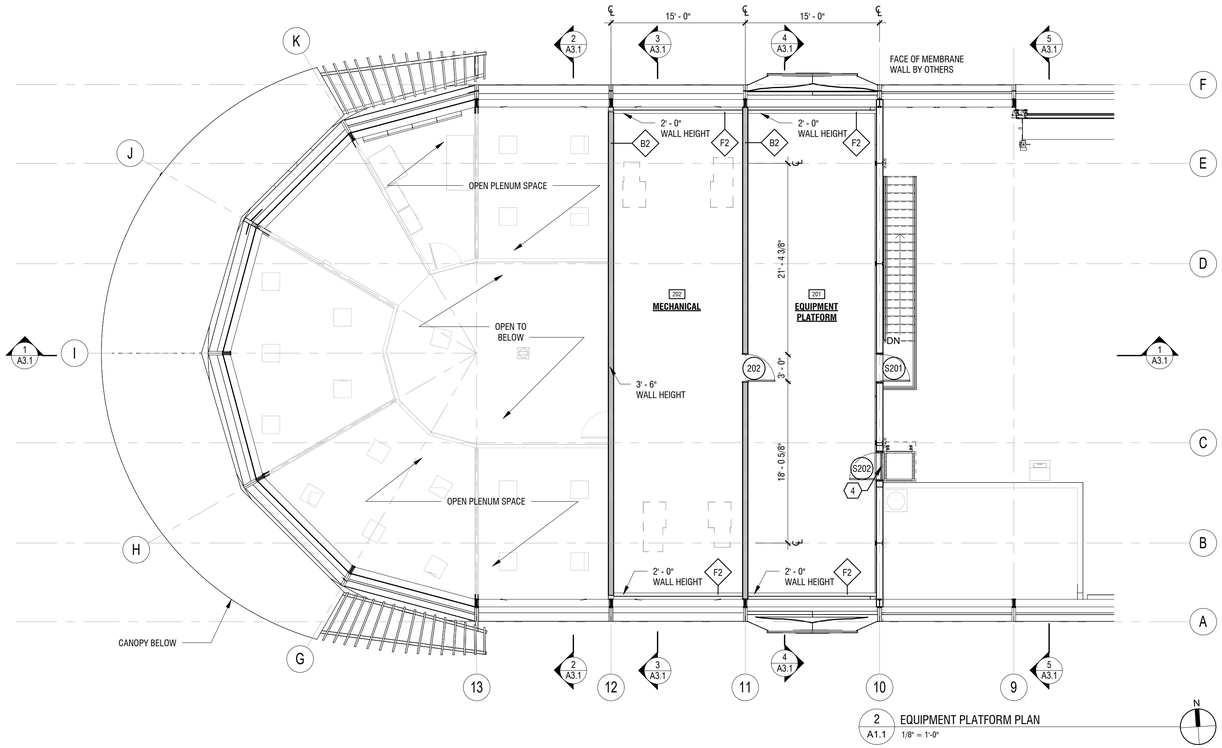


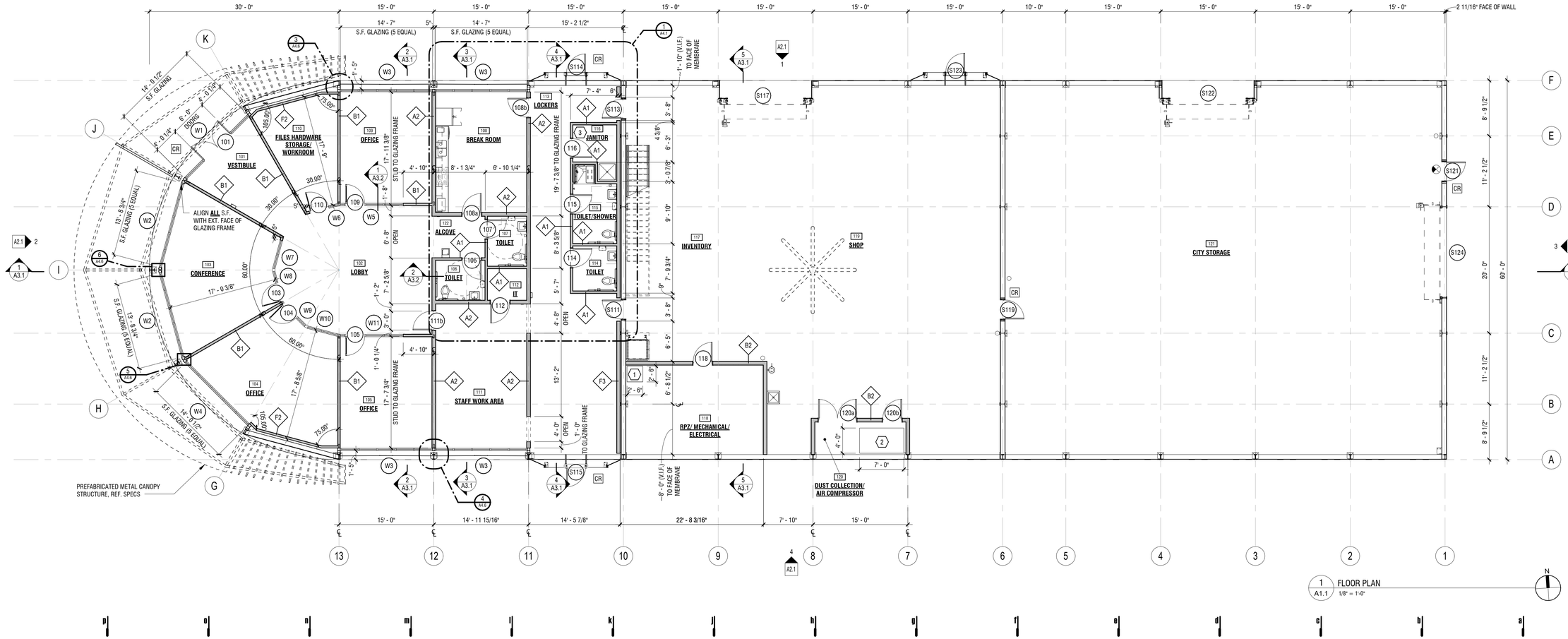
2 A1.1 EQUIPMENT PLATFORM PLAN
1/8" = 1'-0"

FLOOR PLAN: KEYNOTE LEGEND

1	HOUSEKEEPING PAD - 30" x 30" x 4" - CONTRACTOR INSTALLED
2	HOUSEKEEPING PAD - 84" x 48" x 4" - CONTRACTOR INSTALLED
3	UNDERCUT DOOR FOR A 3/4" AIR GAP
4	PROVIDE RETRACTABLE SAFETY BARRIER ON LIFT SIDE OF DOOR

LEGEND: FLOOR PLAN

- EXISTING WALLS
- NEW CMU WALLS
- NEW WALLS
- W12 — WINDOW TAG
- A1-2 — WALL TAG
- 101 ROOM NAME — ROOM TAG
- 100a — DOOR TAG
- CR — CARD READER
- KEYED NOTES SYMBOL



1 A1.1 FLOOR PLAN
1/8" = 1'-0"

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FLOOR PLANS

A1.1

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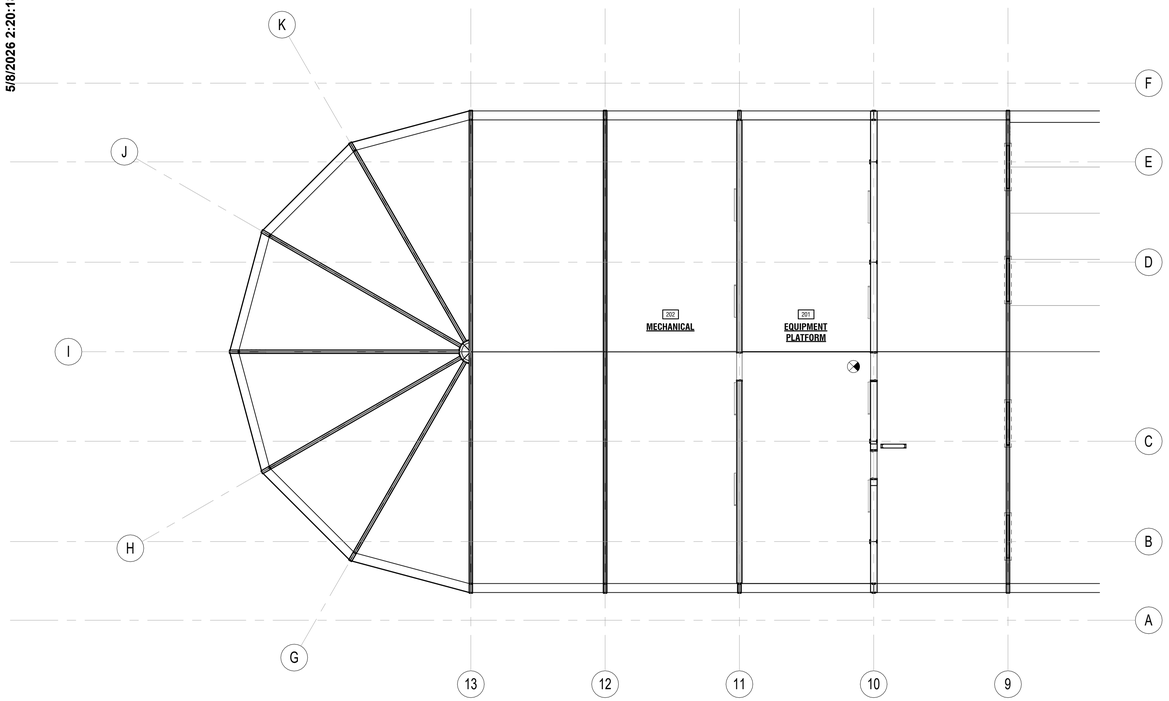


2 / A1.2 EQUIPMENT PLATFORM REFLECTED CEILING PLAN
1/8" = 1'-0"

REFLECTED CEILING PLAN: KEYNOTE LEGEND

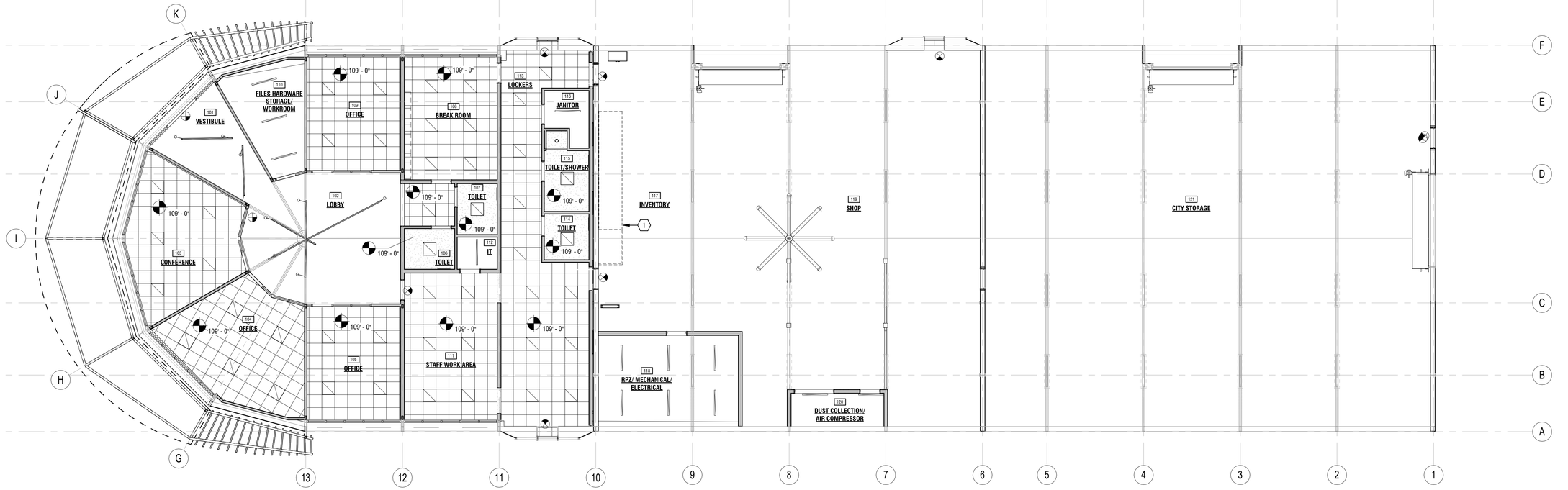
1	STAIR BELOW

GENERAL NOTES

1. PAINT ALL EXPOSED ITEMS INCLUDING BUT NOT LIMITED TO DUCTWORK, CONDUIT, UNISTRUT, ETC.
2. UNISTRUTS MOUNTED FROM SPRUNG STRUCTURE TO BE MOUNTED CLOSE TO STRUCTURE, WITH WIRE/CABLING/RODS SUSPENDED DOWN TO INTENDED FIXTURE OR EQUIPMENT.
3. CONTACT ARCHITECT PRIOR TO INSTALLATION FOR IN THE FIELD FIXTURE HEIGHTS AND ANGLES FOR SUSPENDED LINEAR FIXTURES.

LEGEND: REFLECTED CEILING PLAN

- NO CEILING, EXPOSED
- GYP. BOARD, SMOOTH PAINTED FINISH
- 24" x 24" ACOUSTIC CEILING TILE (ACT)
- 2' X 2' RECESSED LED LIGHT FIXTURE
- 4' STRIP LED LIGHT FIXTURE
- LINEAR LED LIGHT FIXTURE, 12', 8', 4' LENGTHS
- CEILING FAN
- EXIT LIGHT
- KEYED NOTES SYMBOL
- CEILING HEIGHT



1 / A1.2 REFLECTED CEILING PLAN
1/8" = 1'-0"

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REFLECTED CEILING PLANS

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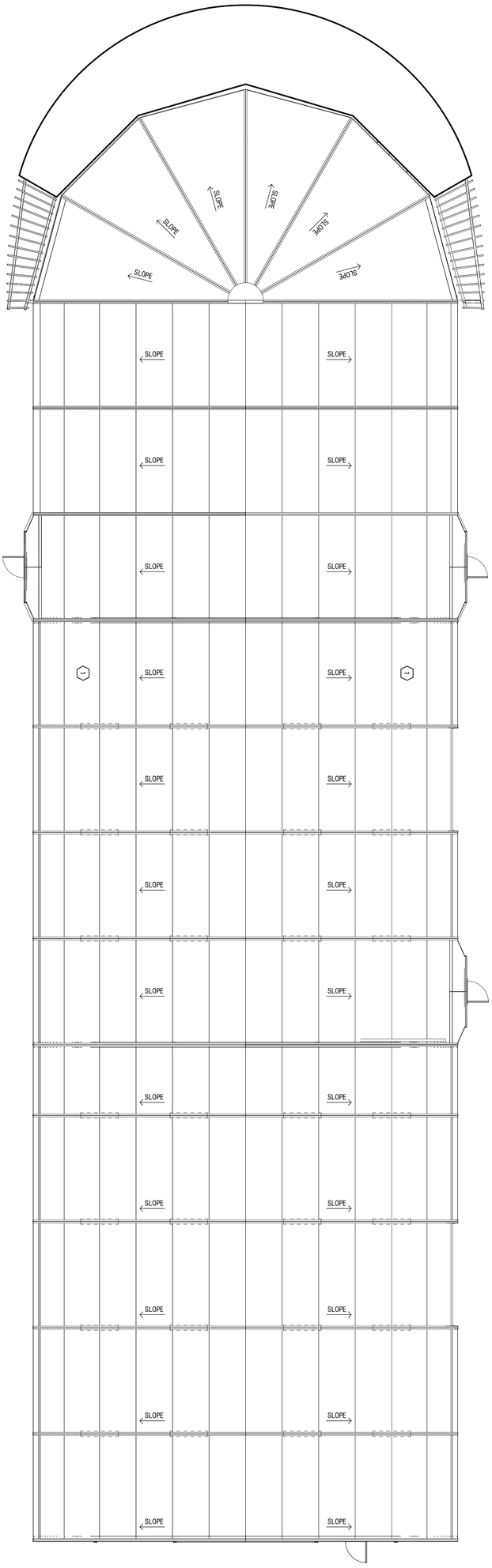

1 A1.3 ROOF PLAN
1/8" = 1'-0"

N

ROOF PLAN: KEYNOTE LEGEND

1 SPRUNG DPA/DUE MEMBRANE

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A1.3 ROOF PLAN

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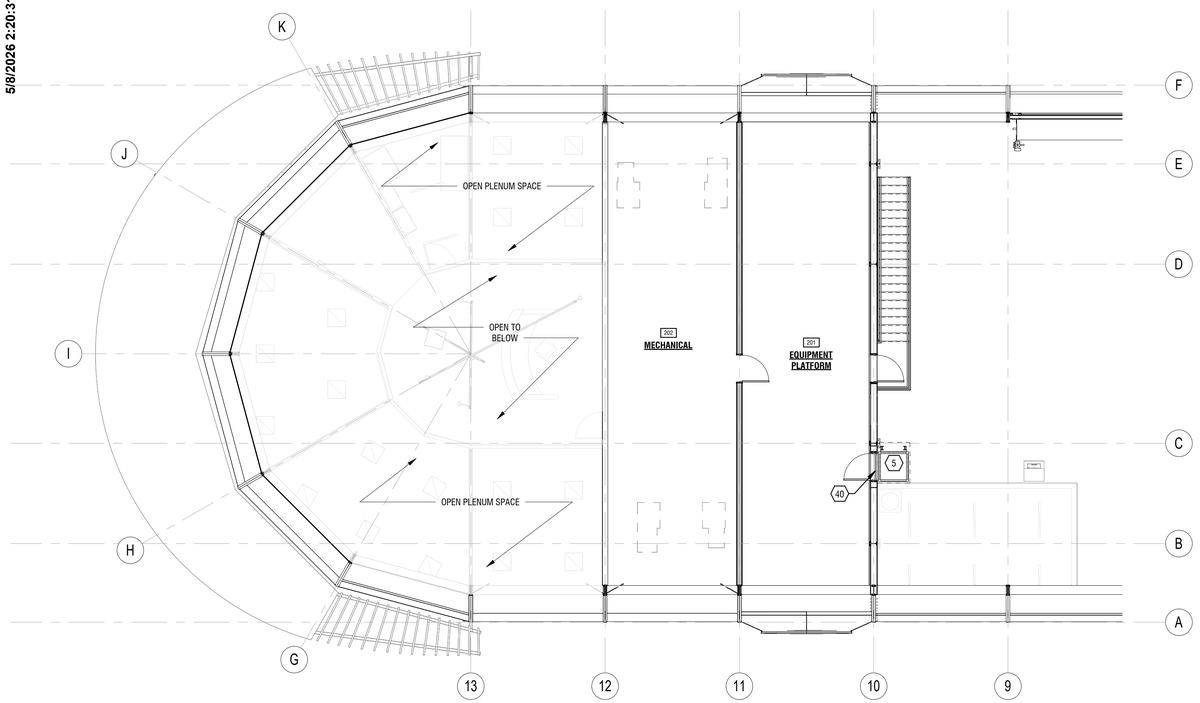
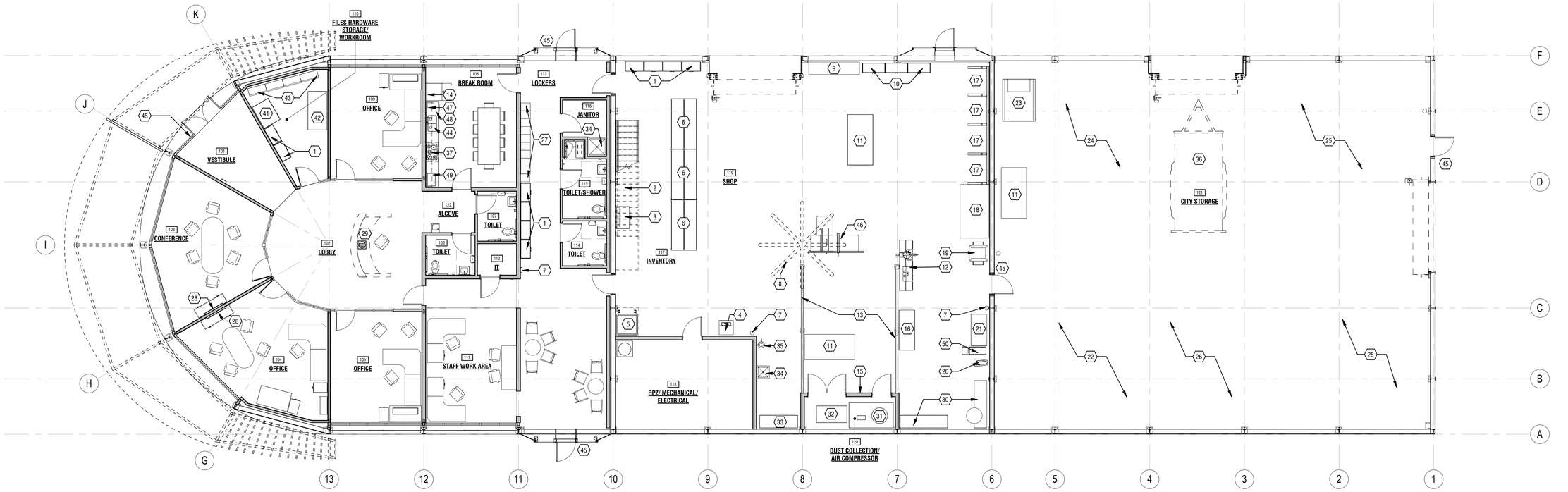


2 / A1.4 EQUIPMENT PLATFORM PLAN
1/8" = 1'-0"

N



1 / A1.4 EQUIPMENT PLAN
1/8" = 1'-0"

N

EQUIPMENT PLAN: KEYNOTE LEGEND

OWNER PROVIDED & INSTALLED EQUIPMENT, UNLESS NOTED OTHERWISE

1. STORAGE
2. FLOOR MAT ATTIC STOCK UNDER STAIRS BY SIZE
3. FLOOR MAT CLEANER
4. STACK WASHER AND DRYER
5. VERTICAL LIFT - - CONTRACTOR PROVIDED & INSTALLED
6. JANITORIAL SUPPLIES
7. FIRE EXTINGUISHER - - CONTRACTOR PROVIDED & INSTALLED
8. BIG ASS FAN - - CONTRACTOR PROVIDED & INSTALLED
9. SMALL TOOL STORAGE
10. CHEMICAL STORAGE
11. ROLLING WORK TABLE
12. SCAFFOLDBENCH WORKBENCH ELECTRIC MITER SAW
13. STRUCTURAL SUPPORT FOR ELE. AND DUST COLL. - - CONTRACTOR PROVIDED & INSTALLED
14. REFRIGERATOR
15. CLAMP STORAGE
16. SCAFFOLDBENCH WORKBENCH METAL CHOP SAW
17. HORIZONTAL WOOD STORAGE RACK
18. HORIZONTAL PLYWOOD STORAGE RACK
19. PLANER
20. DRILL PRESS - - CONTRACTOR INSTALLED
21. WELDING FABRICATION TABLE
22. FURNITURE STORAGE
23. SEMI-ELECTRIC STRADDLE STACKER
24. MISCELLANEOUS STORAGE
25. CHRISTMAS DECORATIONS
26. THEATER CHAIRS AND STAGE
27. LOCKERS
28. TV AND VIDEO MONITOR - - CONTRACTOR COORDINATED NEEDED BLOCKING
29. FLOOR RECEPTACLE - - CONTRACTOR INSTALLED
30. SABER WORKBENCH
31. AIR COMPRESSOR W/ DRYER - - CONTRACTOR PROVIDED & INSTALLED
32. DUST COLLECTION - - CONTRACTOR INSTALLED
33. HARDWARE
34. MOP SINK - - CONTRACTOR PROVIDED & INSTALLED
35. EYEWASH - - CONTRACTOR PROVIDED & INSTALLED
36. THEATER ENCLOSED TRAILER
37. ELE. COOKTOP W/ EXHAUST HOOD ABOVE - - CONTRACTOR PROVIDED & INSTALLED
38. NOT USED
39. NOT USED
40. SAFETY BARRIER - - CONTRACTOR PROVIDED & INSTALLED
41. FLAT FILE
42. WORK TABLE
43. BOOKCASE
44. UNDERMOUNT STAINLESS STEEL SINK - - CONTRACTOR PROVIDED & INSTALLED
45. CONTROLLED ACCESS - - CONTRACTOR COORDINATED W/ OWNER
46. GRIZZLY TABLE SAW
47. COFFEE MAKER WITH WATER CONNECTION - - CONTRACTOR COORDINATED
48. DISHWASHER - - CONTRACTOR COORDINATED & INSTALLED
49. MICROWAVE - - CONTRACTOR COORDINATED
50. WELDER

REGISTERED ARCHITECT
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EQUIPMENT PLANS

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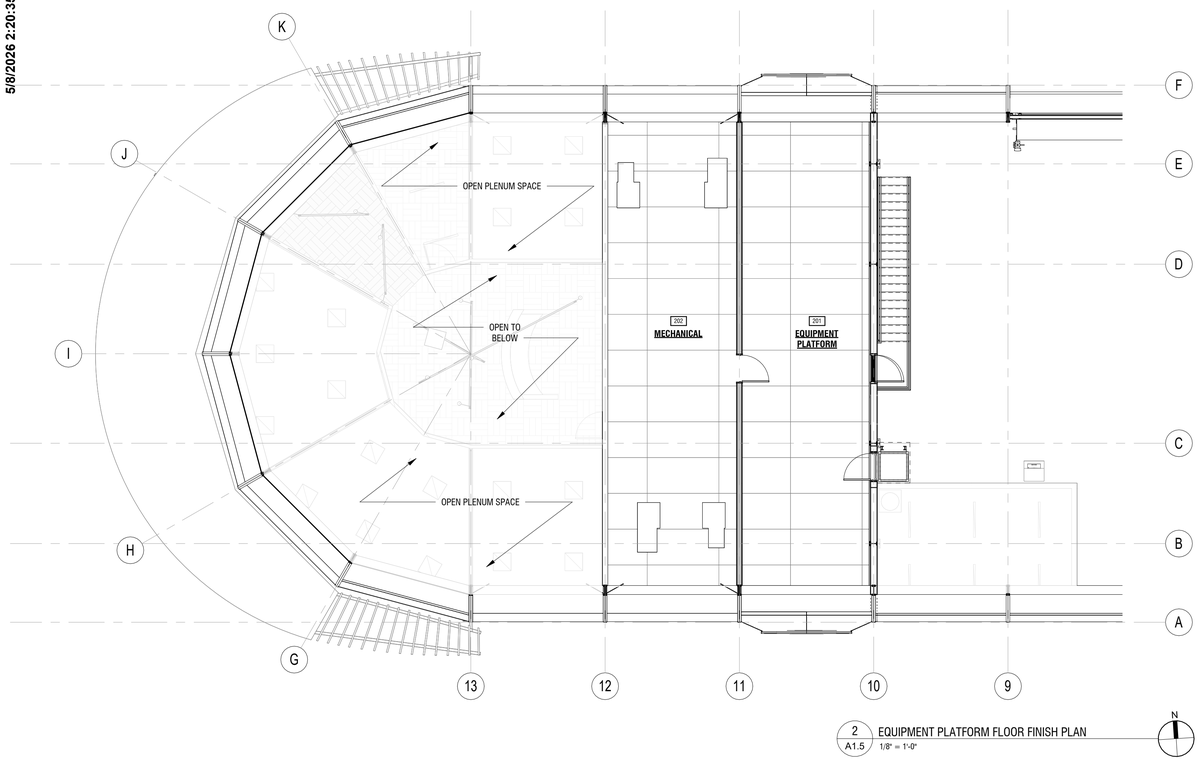
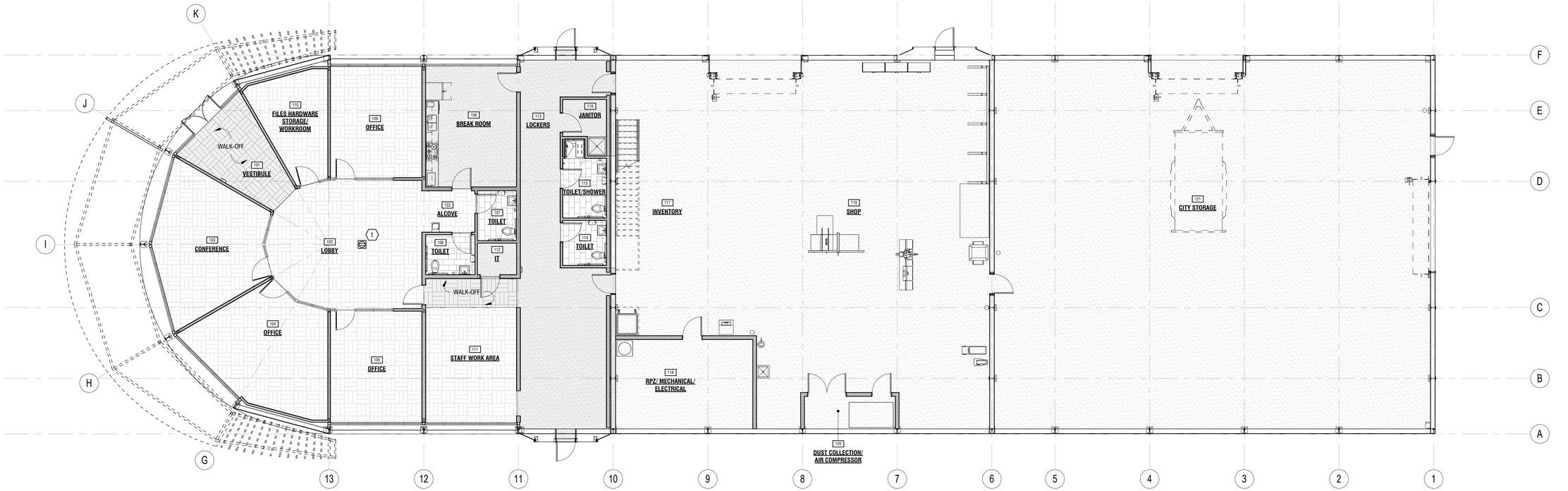


2 A1.5 EQUIPMENT PLATFORM FLOOR FINISH PLAN
1/8" = 1'-0"



1 A1.5 FLOOR FINISH PLAN
1/8" = 1'-0"

FLOOR FINISH: KEYNOTE LEGEND

1	FLOOR RECEPTACLE, REF ELEC.

LEGEND: REFLECTED CEILING PLAN

- CERAMIC TILE
- CARPET TILE
- CARPET TILE - WALK OFF
- SEALED CONCRETE
- POLISHED CONCRETE
- PLYWOOD DECKING

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FLOOR FINISH PLANS

A1.5

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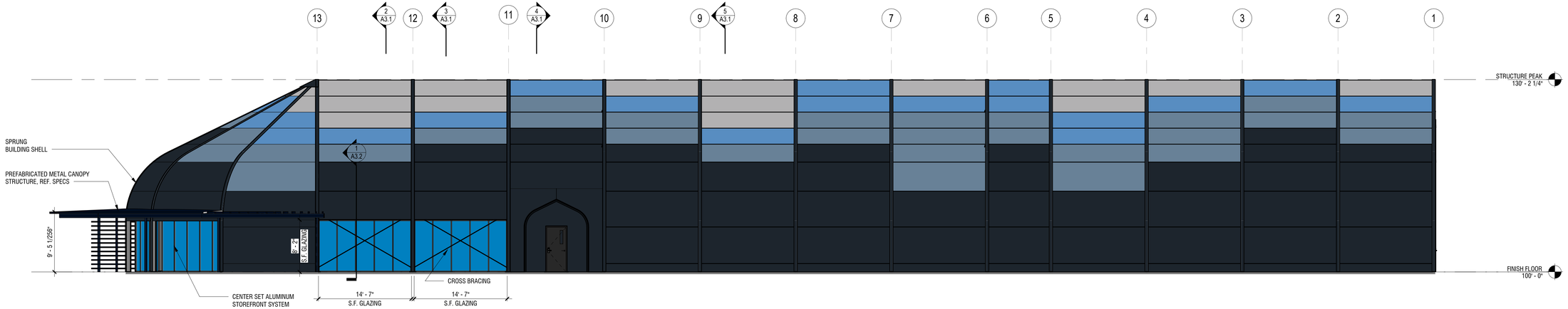
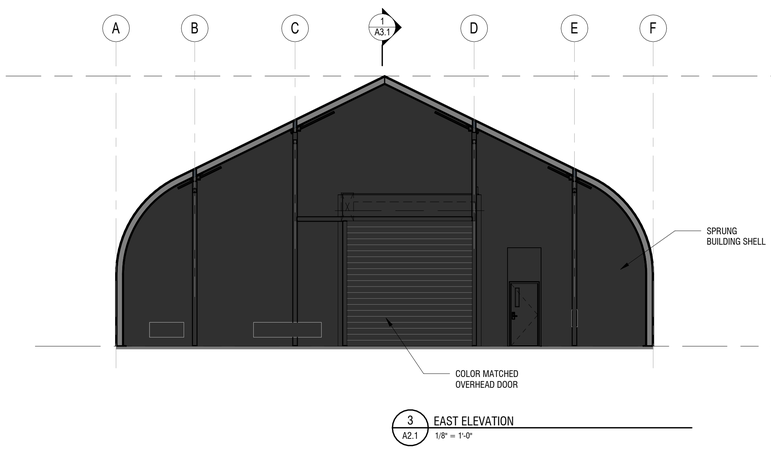
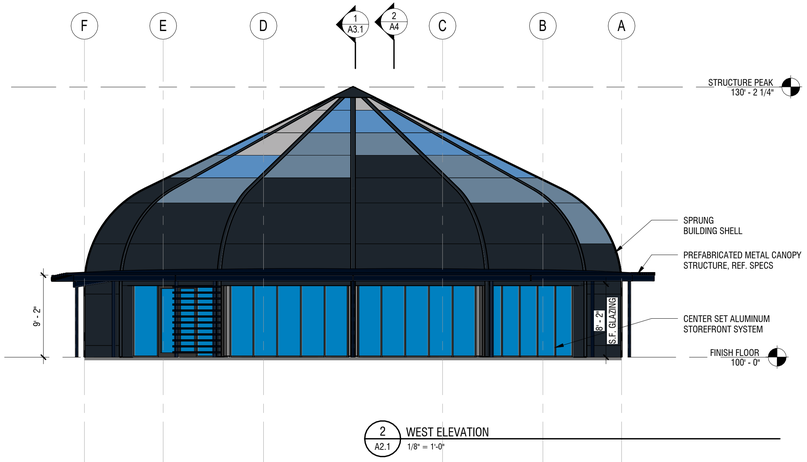


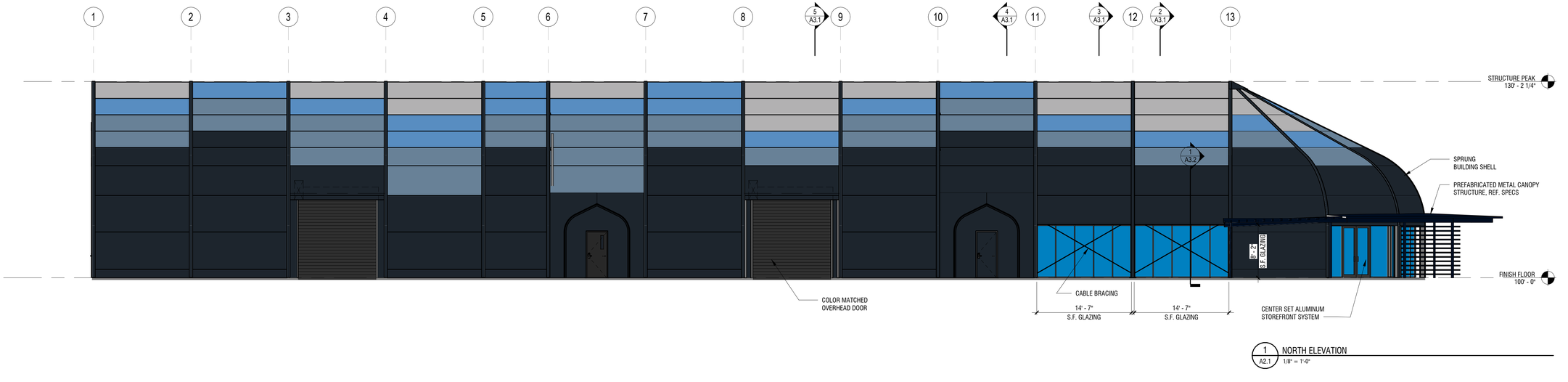
4 A2.1 SOUTH ELEVATION
1/8" = 1'-0"



3 A2.1 EAST ELEVATION
1/8" = 1'-0"



2 A2.1 WEST ELEVATION
1/8" = 1'-0"



1 A2.1 NORTH ELEVATION
1/8" = 1'-0"

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EXTERIOR ELEVATIONS

A2.1

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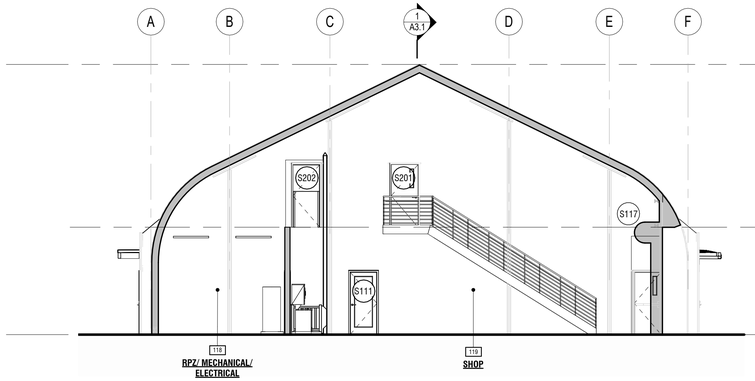
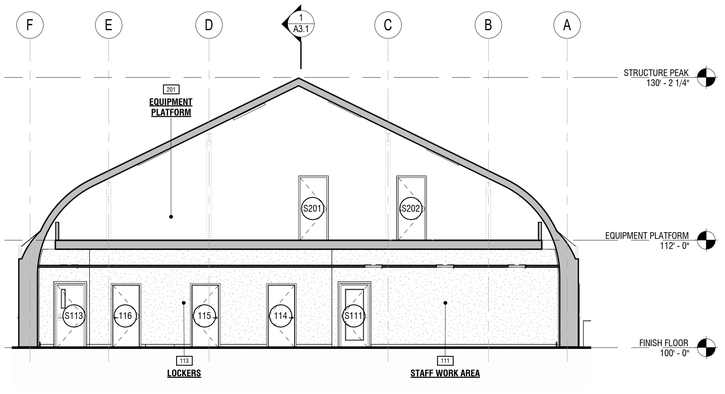
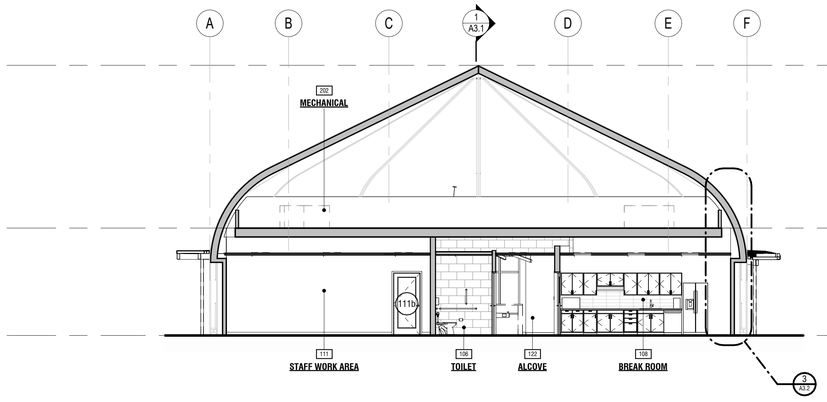


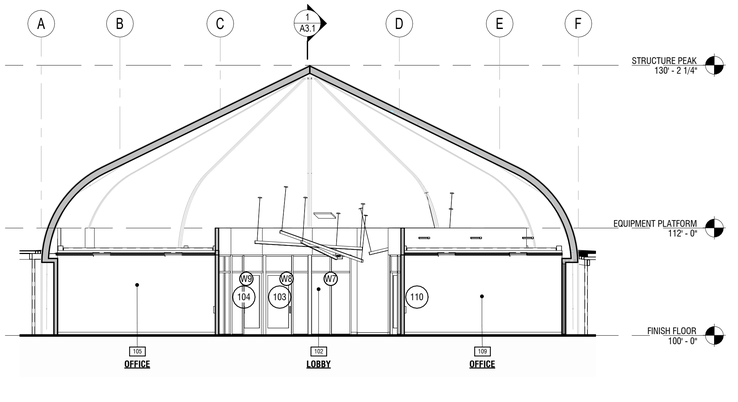
5 SECTION AT INVENTORY
A3.1 1/8" = 1'-0"



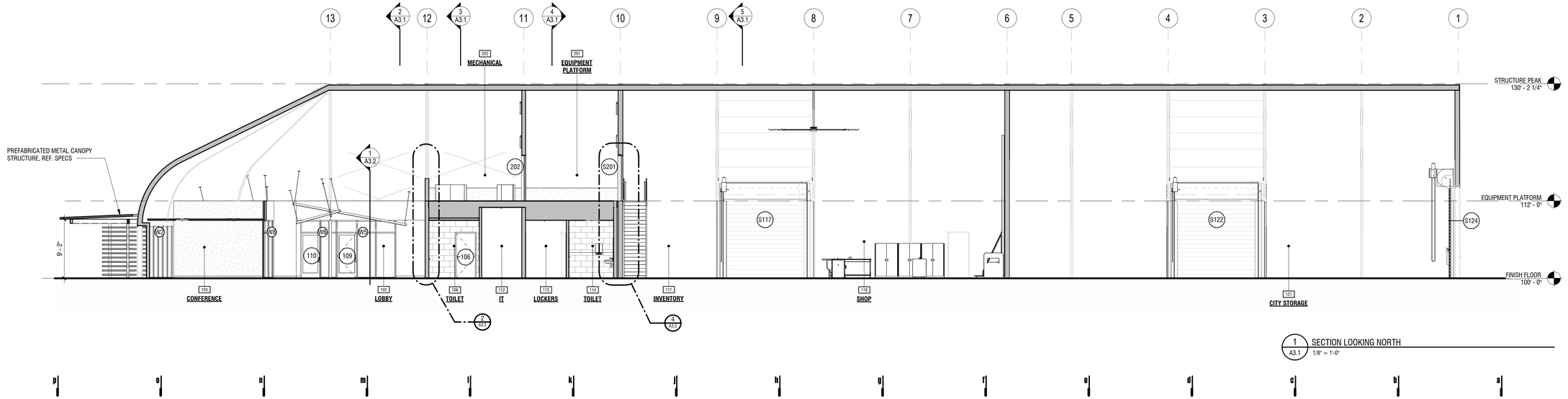
4 SECTION AT LOCKERS/EQUIPMENT PLATFORM
A3.1 1/8" = 1'-0"



3 SECTION LOOKING EAST
A3.1 1/8" = 1'-0"



2 SECTION AT OFFICES AND LOBBY
A3.1 1/8" = 1'-0"



1 SECTION LOOKING NORTH
A3.1 1/8" = 1'-0"

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BUILDING SECTIONS

A3.1

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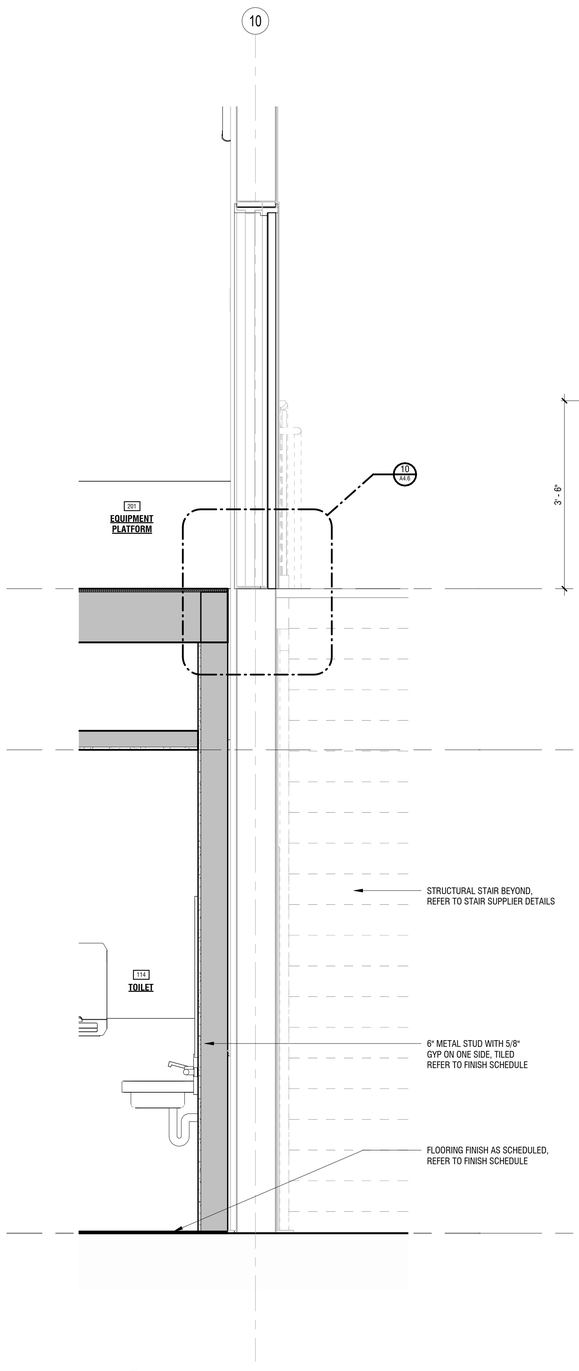
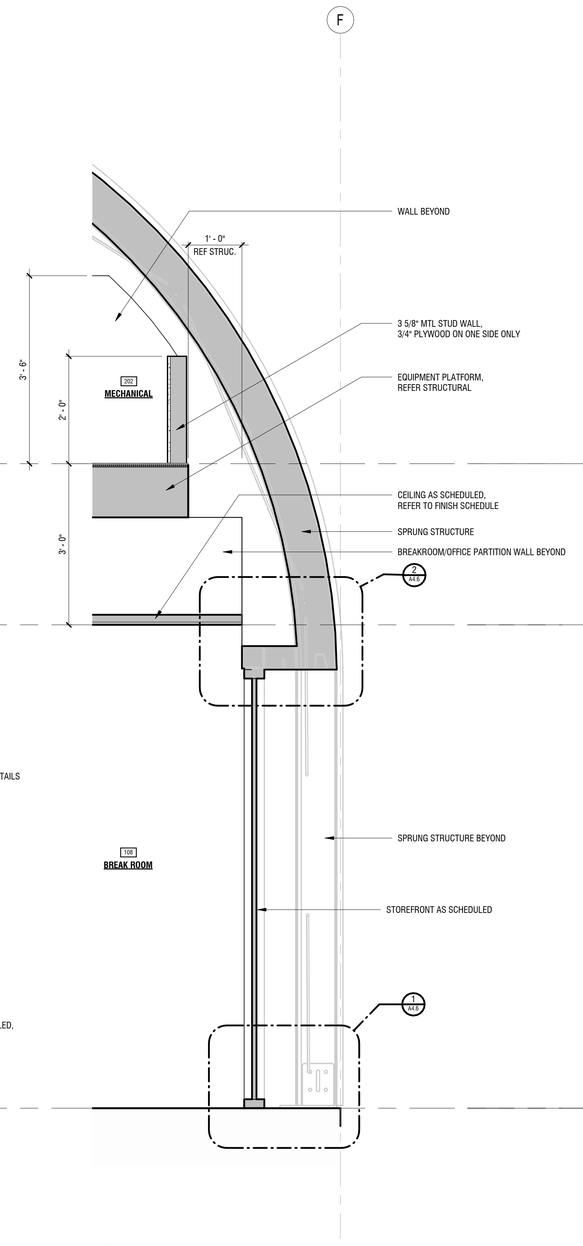
ASSEMBLIES LEGEND

FOUNDATION ASSEMBLY

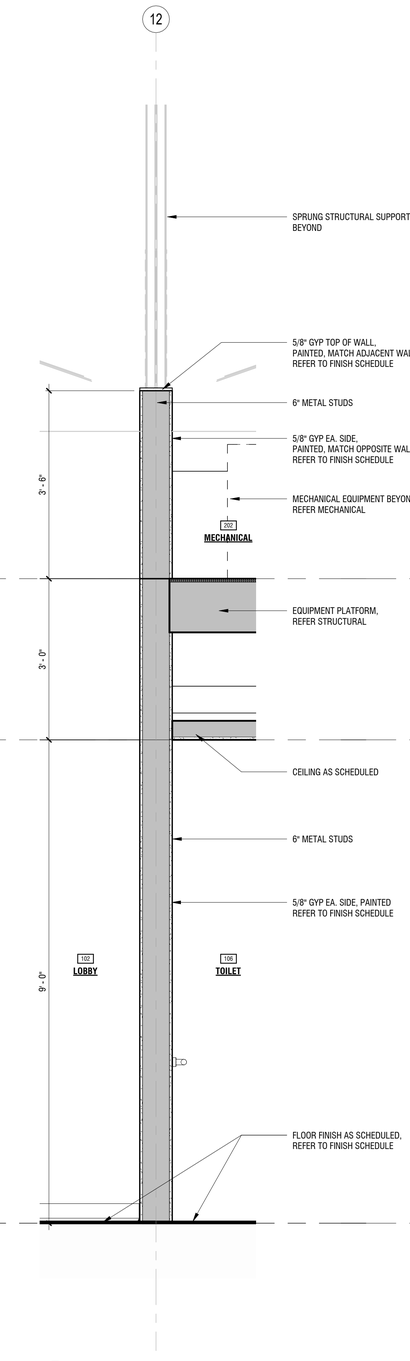
SLAB ON GRADE FOUNDATION ASSEMBLY
- REINFORCED CONC. SLAB (SEE STRUCT)
- 15 MIL VAPOR BARRIER
- GRANULAR FILL
- COMPACTED SUBGRADE



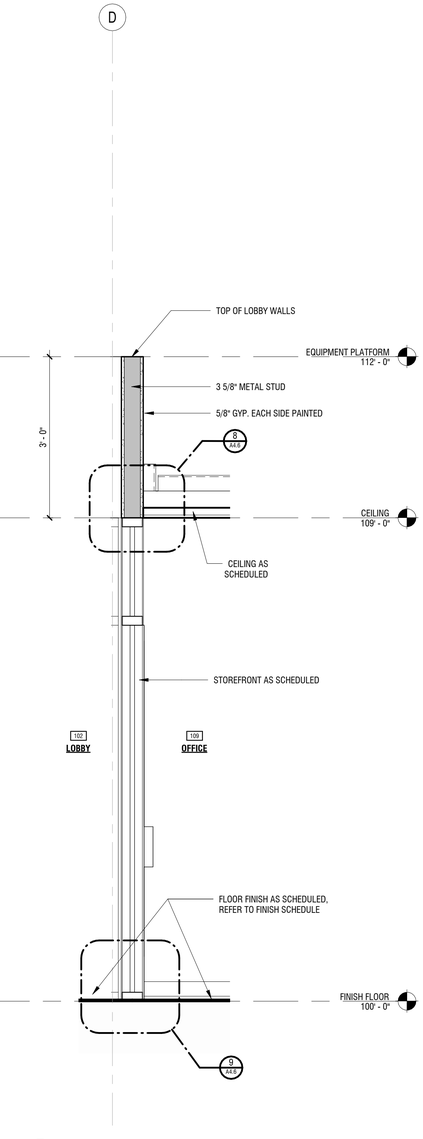
4 A3.2 SECTION AT STAIRS AND STRUCTURAL PLATFORM
3/4" = 1'-0"



3 A3.2 SECTION AT BREAKROOM EXTERIOR STOREFRONT
3/4" = 1'-0"



2 A3.2 SECTION AT EAST LOBBY WALL
3/4" = 1'-0"



1 A3.2 SECTION AT INTERIOR STOREFRONT
3/4" = 1'-0"

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WALL SECTIONS & DETAILS

A3.2

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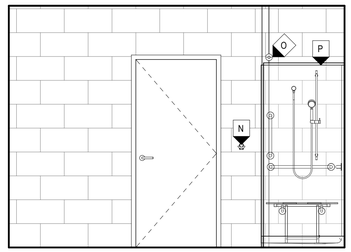
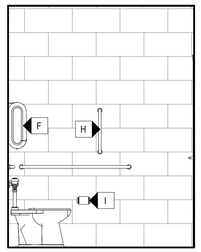
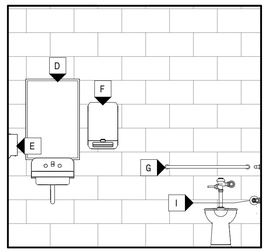


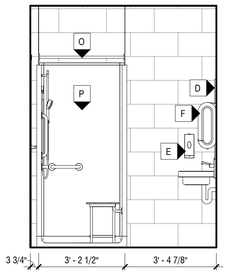
10 A4.1 TOILET/SHOWER ELEVATION
3/8" = 1'-0"



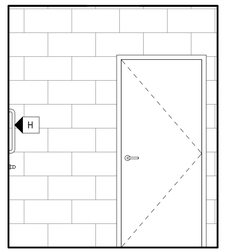
9 A4.1 TOILET/SHOWER ELEVATION
3/8" = 1'-0"



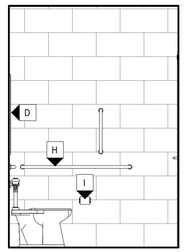
8 A4.1 TOILET/SHOWER ELEVATION
3/8" = 1'-0"



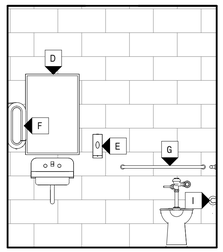
7 A4.1 TOILET/SHOWER ELEVATION
3/8" = 1'-0"



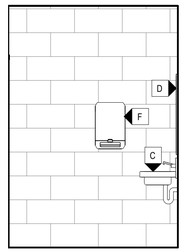
6 A4.1 TOILET ELEVATION
3/8" = 1'-0"



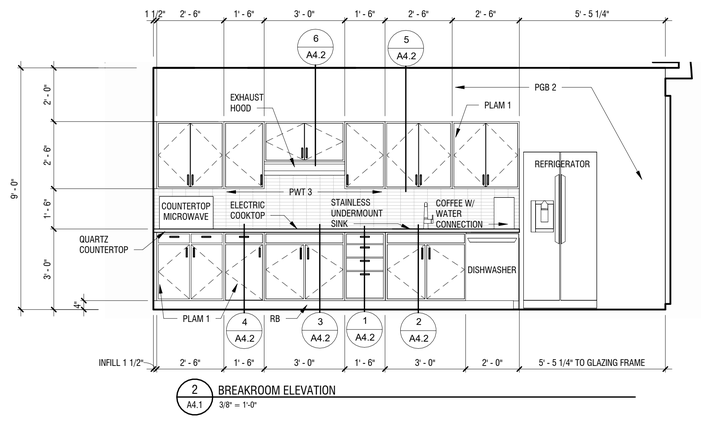
5 A4.1 TOILET ELEVATION
3/8" = 1'-0"



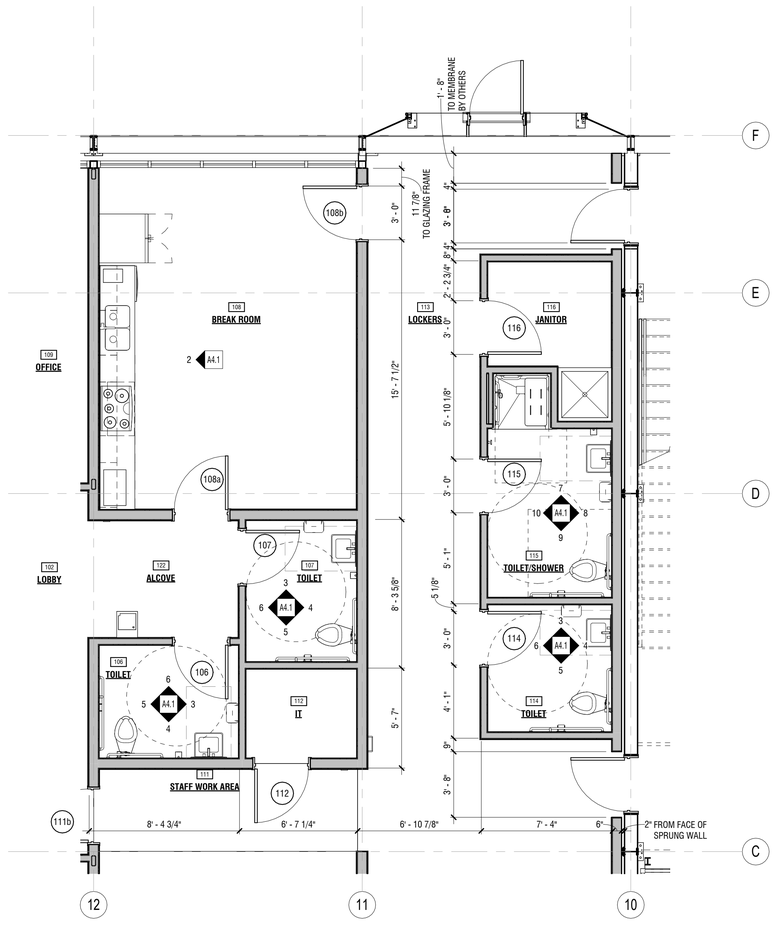
4 A4.1 TOILET ELEVATION
3/8" = 1'-0"



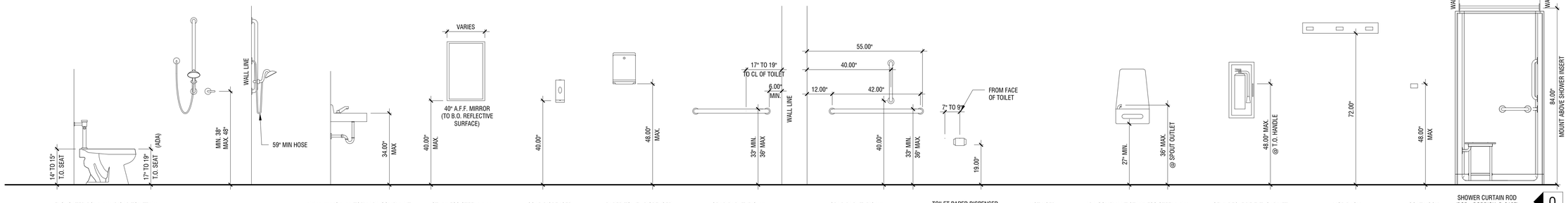
3 A4.1 TOILET ELEVATION
3/8" = 1'-0"



2 A4.1 BREAKROOM ELEVATION
3/8" = 1'-0"



1 A4.1 ENLARGED FLOOR PLAN
1/4" = 1'-0"



A ELONGATED BOWL HANDICAP TOILET W/ OPEN FRONT SEAT FLOOR-MOUNTED

B ADA COMPLIANT SHOWER HEAD AND CONTROLS

C WALL HUNG LAVATORY ADA COMPLIANT (34" MAX HEIGHT - TOP OF SINK)

D STAINLESS STEEL WALL MOUNTED ADA COMPLIANT (BOD - BOBRICK, 165 2448)

E SOAP DISPENSER (BY OWNER)

F PAPER TOWEL DISPENSER. PROVIDE BLOCKING AS NECESSARY (BY OWNER)

G GRAB BAR (TYPICAL) SURFACE MOUNTED (BOD - BOBRICK, 6806)

H GRAB BAR (TYPICAL) SURFACE MOUNTED (BOD - BOBRICK, 6806)

I TOILET PAPER DISPENSER (BY OWNER)

J NOT USED

K ADA COMPLIANT STAINLESS STEEL WALL MOUNTED DRINKING FOUNTAIN

L SEMI-REC. FIRE EXT. CABINET. - SEE SPECS

M MOP RACK (AT EACH MOP SINK) (BOD - BOBRICK, 223 36)

N COAT HOOK (BOD - BOBRICK, 212)

O SHOWER CURTAIN ROD (BOD - BOBRICK, B-6107)

P FIBERGLASS SHOWER MODULE (BESTBATH, 4LSS24238RSQ75B)

RESTROOM LEGEND
1/2" = 1'-0"

Timothy W. Mehlhaff
License Number 9967
5/08/2026
STATE OF ARKANSAS
REGISTERED ARCHITECT

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE ROGERS FACILITIES DEPARTMENT

2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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ENLARGED PLANS & DETAILS

A4.1

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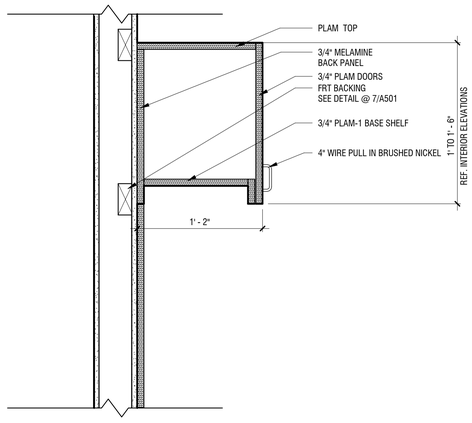
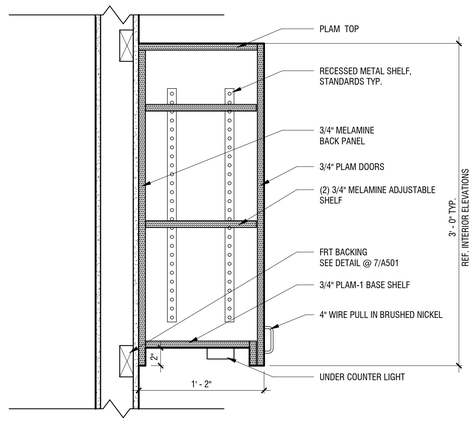
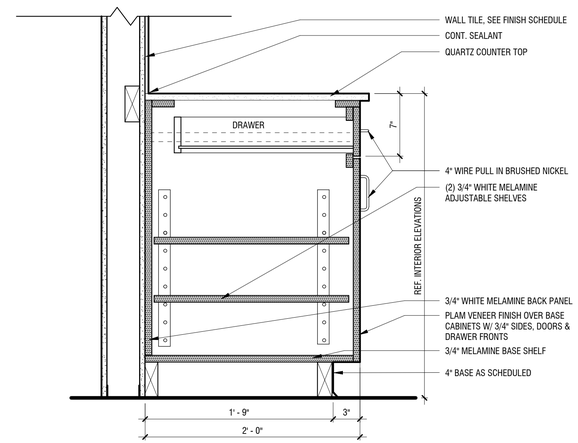


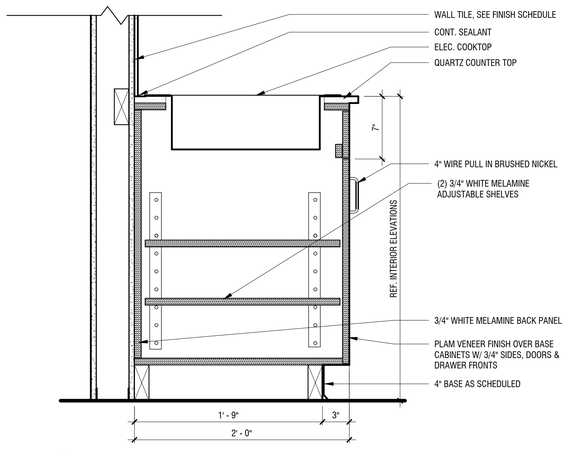
6 A4.2 UPPER CABINET NO SHELVES
1 1/2" = 1'-0"



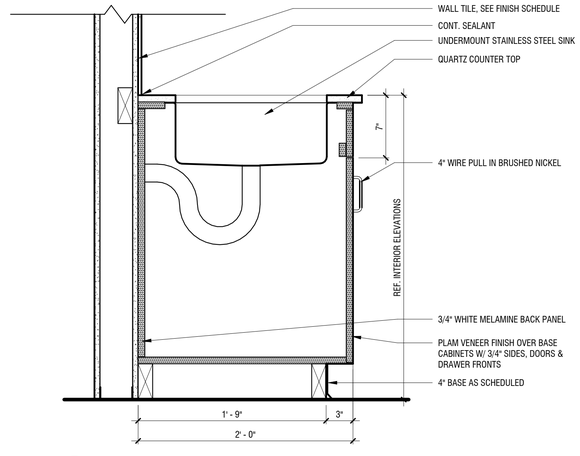
5 A4.2 UPPER CABINET
1 1/2" = 1'-0"



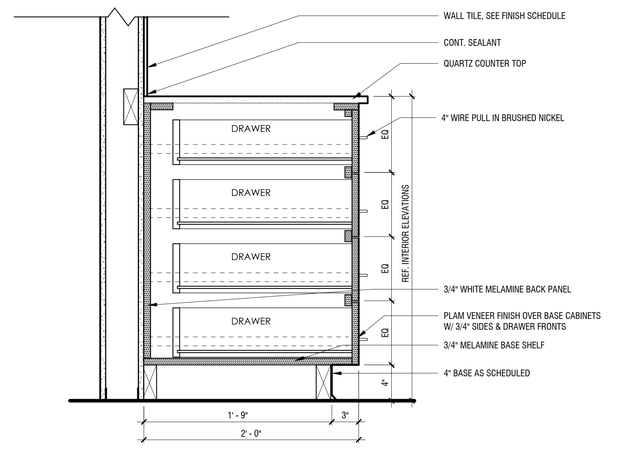
4 A4.2 BASE CABINET W/ DRAWER
1 1/2" = 1'-0"



3 A4.2 BASE CABINET WITH COOKTOP
1 1/2" = 1'-0"



2 A4.2 BASE CABINET WITH SINK
1 1/2" = 1'-0"



1 A4.2 BASE CABINET W/ 4 DRAWERS
1 1/2" = 1'-0"

REGISTERED ARCHITECT
Timothy W. Mehlhaff
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CASEWORK DETAILS

A4.2

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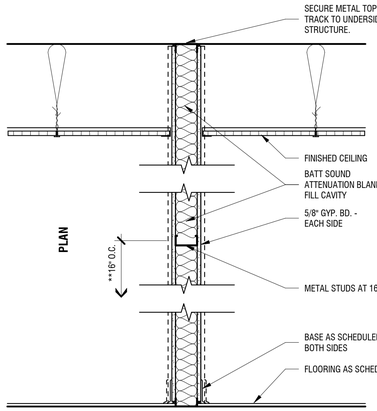
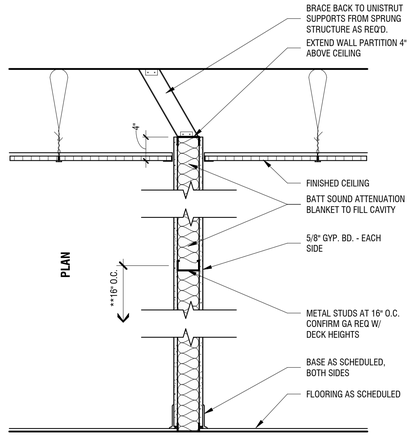


**VERIFY STUD SIZE & SPACING W/ STRUCTURAL SCALE: 1" = 1'-0"

A1 "A" SERIES: 3 5/8" METAL STUD PARTITION
(1) LAYER 5/8" GYP. BD. EACH SIDE, BOTH TO EXTEND TO DECK

A2 "A" SERIES: 6" METAL STUD PARTITION
(1) LAYER 5/8" GYP. BD. EACH SIDE, BOTH TO EXTEND TO DECK

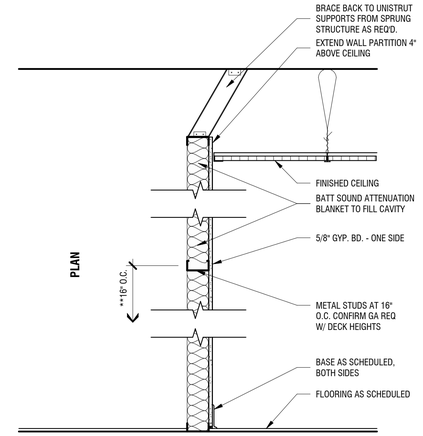


**VERIFY STUD SIZE & SPACING W/ STRUCTURAL SCALE: 1" = 1'-0"

B1 "B" SERIES: 3 5/8" METAL STUD PARTITION
EXTEND TOTAL PARTITION TO 4" ABOVE CEILING, BRACE AS REQ'D
(1) LAYER 5/8" GYP. BD. EACH SIDE

B2 "B" SERIES: 6" METAL STUD PARTITION
EXTEND TOTAL PARTITION TO 4" ABOVE CEILING, BRACE AS REQ'D
(1) LAYER 5/8" GYP. BD. EACH SIDE

*** ALL WALLS ARE B1 U.N.O.



**VERIFY STUD SIZE & SPACING W/ STRUCTURAL SCALE: 1" = 1'-0"

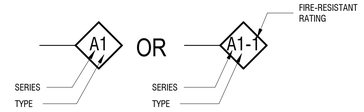
F2 "F" SERIES: 3 5/8" METAL STUD PARTITION
(1) LAYER OF 5/8" GYP. BD. ONE SIDE ONLY

F3 "F" SERIES: 6" METAL STUD PARTITION W/ SOUND ATTENUATION BATT
(1) LAYER OF 5/8" GYP. BD. ONE SIDE ONLY

GENERAL PARTITION NOTES

1. PARTITION TYPES INDICATE THE GENERAL REQUIREMENTS FOR CONSTRUCTION. REFER TO MANUFACTURER'S RECOMMENDATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR THE SPECIFIC DETAILS OF PARTITION CONSTRUCTION.
2. FLOOR PLANS USE ACTUAL PARTITION DIMENSIONS. REFER TO PARTITION SCHEDULE FOR PARTITION ASSEMBLY INFORMATION.
3. WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, DIMENSIONS ARE MEASURED TO FACE OF PARTITION FINISH.
4. METAL STUD SPACING IS TO BE 16" ON CENTER UNLESS NOTED OTHERWISE.
5. METAL STUD FRAMING SHOWN INDICATES THE MINIMUM STANDARD STUD SIZE.
6. WHERE CONDITIONS OF THE WORK CAUSE PARTITIONS TO EXCEED THE LIMITS RECOMMENDED BY STUD MANUFACTURER, REINFORCE PARTITION AS NEEDED TO MEET THESE RECOMMENDATIONS.
7. PROVIDE FIRE RETARDANT TREATED WOOD BLOCKING (OR SHEET METAL BACKING) WITHIN PARTITION FOR SECURE ATTACHMENT OF ALL WALL-HUNG FIXTURES, CABINETS, HARDWARE, ACCESSORIES, HANDRAILS, ETC., TO PARTITION SYSTEM.
8. PENETRATIONS INTO OR THROUGH FIRE-RESISTANCE-RATED PARTITIONS, OR PARTITIONS SERVING AS SMOKE BARRIERS, MUST BE PROTECTED BY A PROPRIETARY FIRE STOP SYSTEM TESTED IN ACCORDANCE WITH ASTM E 814 OR ASTM E 119, ALTERNATE SYSTEMS MAY BE USED IF SPECIFIED AND ACCEPTED BY THE APPLICABLE BUILDING CODE.
9. WHERE DIFFERENT PARTITION SYSTEMS AND/OR FURRING MEET, MAINTAIN A FLUSH SURFACE ON THE STRAIGHT OR CONTINUOUS FACE, UNLESS NOTED OTHERWISE.
10. PROVIDE TILE BACKING BOARD BEHIND CERAMIC TILE WALL FINISHES. REFER TO SPECIFICATIONS FOR BACKING BOARD MATERIAL DESCRIPTION. SHIM AS REQUIRED TO ENSURE BACKING BOARD SURFACE IS FLUSH WITH ADJACENT GYP. BD. SURFACES.
11. INSTALLATION OF BACKING BOARD OR GYPSUM BASE SHALL CONFORM TO REQUIREMENTS FOR FIRE RESISTANCE RATINGS AND ACOUSTICAL RATINGS FOR THE PARTITION TYPE.
12. INSTALL FIBERGLASS-REINFORCED PANELS ("FRP" OR "GLASSBOARD") BEHIND AND ON SIDES OF JANITOR'S SINKS. PANELS ARE TO BE 4'-0" HIGH AND EXTEND A MINIMUM OF 12" BEYOND THE EDGE OF THE SINK ON ADJACENT SIDEWALLS.
13. PROVIDE IMPACT RESISTANT GYPSUM BOARD UP TO 4'-0" A.F.F. AT PUBLIC LOCATIONS WHERE GYPSUM EXTENDS TO FLOOR. (E.G. CORRIDORS, WAITING ROOMS, LOBBIES, STAIRS)
14. ALL CONSTRUCTION MATERIALS REGARDLESS OF LOCATION TO HAVE FLAME SPREAD OF LESS THAN 75.
15. ALL CONSTRUCTION MATERIALS REGARDLESS OF LOCATION TO HAVE SMOKE DEVELOPMENT INDEX OF LESS THAN 450.
16. CONTRACTOR TO VERIFY ADEQUATE STUD SIZE AND SPACING FOR HEIGHT OF PARTITION, AND FOR EXTERIOR PARTITIONS, AND FOR 25 PSF WIND LOAD.
17. PROVIDE CONTINUOUS SEALANT TOP AND BOTTOM ON PUBLIC SIDE OF PARTITIONS.
18. ALL GYP. BD. IN RESTROOMS AND OTHER WET AREAS TO BE MOISTURE RESISTANT.

PARTITION TYPE SYMBOL KEY



STUD GAUGE SCHEDULE

A. TABLE BELOW IS BASED ON UNIVERSAL INDUSTRIES, UNIMAST (USG) CORPORATIONS LIMITING HEIGHT TABLE FOR EMBRACED STUDS SPACED AT 16" AND 24" O.C. (SYSTEM FOLDER SA-923-1990 EDITION). REQUIREMENT FOR 5 PSF LATERAL PRESSURE AND 1/240 ALLOWABLE DEFLECTION FOR FLEXIBLE FINISHES, WITH 1 LAYER OF GYP. BD. PER SIDE OF STUD.
B. SCHEDULED HEIGHTS MAY BE INCREASED BY 50% WHERE THE STUDS ARE DIAGONALLY BRACED AT THE MAXIMUM HEIGHT POINT TO THE STRUCTURE ABOVE @ 4'-0" O.C.
C. CAUTION! WHEN USING STUDS MANUFACTURED BY A COMPANY OTHER THAN USG, VERIFY MANUFACTURERS STUD STRENGTH AND LIMITING HEIGHT. ADJUST GAUGE AND MAXIMUM HEIGHT RECOMMENDED BY MANUFACTURER'S CURRENT PRINTED SPECIFICATION.

STUD WIDTH	STUD TYPE	STUD GAUGE	STUD SPACING	MAX. HEIGHT
1-5/8"	158ST25	25	16"	9'-8"
	158ST25	25	24"	7'-3"
2-1/2"	212ST25	25	16"	12'-6"
	212ST25	25	24"	10'-9"
	212ST22	22	16"	13'-0"
	212ST22	22	24"	11'-6"
	212ST20	20	16"	14'-0"
	212ST20	20	24"	11'-6"
3-5/8"	358ST25	25	16"	16'-0"
	358ST25	25	24"	13'-6"
	358ST22	22	16"	17'-3"
	358ST22	22	24"	15'-0"
	358ST20	20	16"	18'-3"
	358ST20	20	24"	16'-0"
6"	600ST25	25	16"	20'-0"
	600ST25	25	24"	15'-0"
	600ST22	22	16"	25'-3"
	600ST22	22	24"	22'-0"
	600ST20	20	16"	26'-6"
	600ST20	20	24"	23'-3"

*FOR REFERENCE ONLY - SEE STRUCTURAL DRAWINGS/ SPECIFICATIONS WHEN PROVIDED.

REGISTERED ARCHITECT
Timothy W. Mehlhaff
License Number 9967
5/08/2026
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PARTITION TYPES

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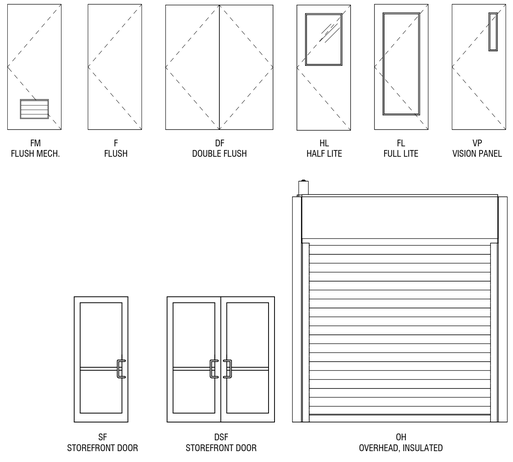
FINISH LEGEND

FLOORING		
WM	CARPET TILE	
	MFR.	J & J FLOORING
	STYLE	MODULAR (WALK OFF - 24 X 24)
	COLOR	INCOGNITO 7069
CPT 1	CARPET TILE	
	MFR.	J & J FLOORING
	STYLE	KINETEX (CATALYST - 24 X 24)
	COLOR	LAUNCH 2843
PFT 1	PORCELAIN TILE	
	MFR.	DALTILE
	STYLE	LINDEN POINT (12 X 24)
	COLOR	LP19 BIANCO
SC	SEALED CONCRETE	
	MFR.	AMERIPOLISH
	STYLE	SEALED
BASE		
RB	RUBBER BASE	
	MFR.	TARKETT/JOHNSONITE
	STYLE	4" RUBBER STRAIGHT BASE
	COLOR	TA4 - GATEWAY WG
CEILINGS		
ACT 1	ACOUSTICAL CEILING TILE	
	MFR.	ARMSTRONG
	STYLE	OPTIMA
	ITEM	TEGULAR 15/16 24 X 24 3354
WALL TILE		
PWT 1	PORCELAIN WALL TILE	
	MFR.	DALTILE
	STYLE	LINDEN POINT (12 X 24)
	COLOR	LP19 BIANCO
PWT 2	PORCELAIN WALL TILE	
	MFR.	DALTILE
	STYLE	LINDEN POINT (12 X 24)
	COLOR	LP21 GRIGIO
PWT 3	PORCELAIN WALL TILE (BACKSPLASH)	
	MFR.	DALTILE
	STYLE	COLOR WHEEL MOSAIC (12 X 12, 1 X 6)
	COLOR	NAVY STRAIGHT JOINT K189
MILLWORK		
PLAM 1	PLASTIC LAMINATE (CABINETS)	
	MFR.	FORMICA
	COLOR	PLANKED COFFEE OAK #7413
PLAM 2	PLASTIC LAMINATE (NON VISIBLE MILLWORK SURFACES)	
	MFR.	FORMICA
	COLOR	NEUTRAL WHITE #918-58
CT 1	QUARTZ COUNTERTOP	
	MFR.	CAMBRIA
	COLOR	WHITNEY - CAMBRIA MATTE - SIGNATURE
WALL COVERING		
WC	WALL COVERING	
	MFR.	MOMENTUM
	STYLE	TYPE II - PYLA
	COLOR	BLUEBERRY
PAINT		
PGB 1	CEILINGS	
	MFR.	SHERWIN WILLIAMS
	COLOR	HIGH REFLECTIVE WHITE SW 7757
	FINISH	FLAT
PGB 2	WALLS	
	MFR.	SHERMAN WILLIAMS
	COLOR	OLYMPUS WHITE SW 6253
	FINISH	EGGSHELL
PGB 3	WALLS (ACCENT)	
	MFR.	SHERWIN WILLIAMS
	COLOR	SMOKEY AZURITE SW 9148
	FINISH	EGGSHELL
PGB 4	EXPOSED CANOPY STRUCTURE	
	MFR.	SHERWIN WILLIAMS
	COLOR	AFTER THE STORM SW 9685
	FINISH	ENAMEL
PGB 5	EXPOSED ITEMS (DUCTWORK, CONDUIT, UNISTRUT, DECK, ETC.)	
	MFR.	SHERWIN WILLIAMS
	COLOR	WHITE SAND SW 9582

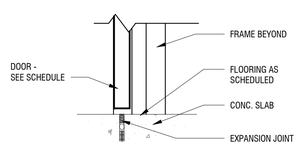
DOOR TYPES



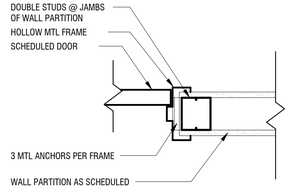
DOOR SCHEDULE GENERAL NOTES:
1. ALL INTERIOR DOORS TO BE HIGH PRESSURE DECORATIVE LAMINATE FINISH
2. COORDINATE WALL AND FLOOR STOPS IN FIELD
3. ALL PAINTED DOORS/DOORFRAMES/TRIMS TO BE SELECTED BY ARCHITECT, SATIN FINISH, UNLESS NOTED OTHERWISE
4. ALL DOOR FRAMES TO BE 2" WIDE

DOOR SCHEDULE

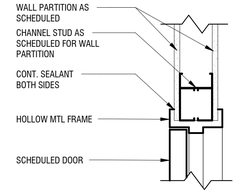
	DOOR						FRAME						
		SIZE						DETAILS					
#	TYPE	WIDTH	HEIGHT	THICKNESS	MATERIAL	FINISH	MATERIAL	FINISH	HEAD	JAMB	SILL	FIRE RATING	HARDWARE SET	REMARKS
101	DSF	6' - 0"	8' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	2/A4.6	3/A4.6	9/A4.6	-	1	
103	SF	3' - 0"	7' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	8/A4.6	7/A4.6	9/A4.6	-	5	
104	SF	3' - 0"	7' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	8/A4.6	7/A4.6	9/A4.6	-	10	
105	SF	3' - 0"	7' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	8/A4.6	7/A4.6	9/A4.6	-	10	
106	F	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	12	
107	F	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	12	
108a	HL	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	4	
108b	HL	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	4	
109	SF	3' - 0"	7' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	8/A4.6	7/A4.6	9/A4.6	-	10	
110	SF	3' - 0"	7' - 0"	1 3/4"	AL	PRE-FIN.	AL	PRE-FIN.	8/A4.6	7/A4.6	9/A4.6	-	5	
111b	FL	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	2	
112	FM	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	8	
114	F	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	12	
115	F	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	11	
116	F	3' - 0"	7' - 0"	1 3/4"	WD.	PRE-FIN.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	9	UNDERCUT DOOR FOR A 3/4" AIR GAP
118	F	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	3	
120a	DF	6' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	7	
120b	F	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	6	
202	F	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	6	
S111	FL	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	15	PROVIDED BY OTHERS
S113	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	15	PROVIDED BY OTHERS
S114	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	13	PROVIDED BY OTHERS
S115	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	13	PROVIDED BY OTHERS
S117	OH	12' - 0"	12' - 0"	1"	STEEL	PTD.	STEEL	PRE-FIN.	-	-	-	-	19	PROVIDED BY OTHERS
S119	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	16	PROVIDED BY OTHERS
S121	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	14	PROVIDED BY OTHERS
S122	OH	12' - 0"	12' - 0"	1"	STEEL	PTD.	STEEL	PRE-FIN.	-	-	-	-	19	PROVIDED BY OTHERS
S123	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	13	PROVIDED BY OTHERS
S124	OH	14' - 0"	14' - 0"	1"	STEEL	PTD.	STEEL	PRE-FIN.	-	-	-	-	19	PROVIDED BY OTHERS
S201	VP	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	17	PROVIDED BY OTHERS
S202	F	3' - 0"	7' - 0"	1 3/4"	H.M.	PTD.	H.M.	PTD.	2/A4.5	3/A4.5	4/A4.5	-	18	PROVIDED BY OTHERS



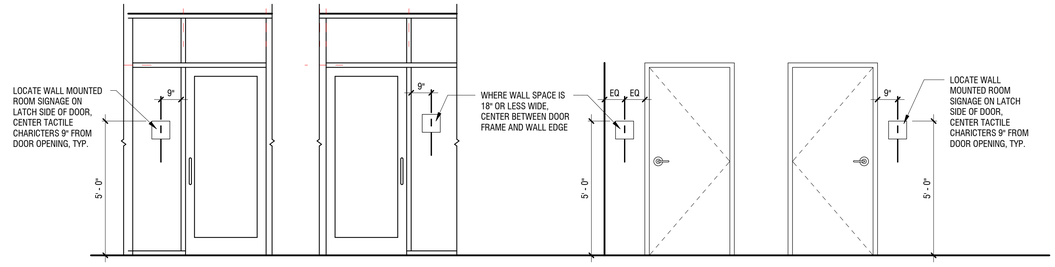
4 A4.4 SILL DETAIL
1 1/2" = 1'-0"



3 A4.4 DOOR JAMB DTL @ METAL STUD
1 1/2" = 1'-0"



2 A4.4 DOOR HEAD DTL @ METAL STUD
1 1/2" = 1'-0"



1 A4.4 INT. SIGNAGE LOCATIONS
3/8" = 1'-0"

ROOM FINISH SCHEDULE

		FLOORING		WALLS				CEILING			
				NORTH	EAST	SOUTH	WEST				
NUMBER	NAME	FLOOR	BASE	FINISH	FINISH	FINISH	FINISH	MATERIAL	FINISH	HEIGHT	COMMENTS
101	VESTIBULE	WM	RB	EXP	PGB2	-	PGB2	EXP	-	-	
102	LOBBY	CPT 1	RB	PGB2	WC/PGB2	PGB2	PGB2	EXP	-	-	
103	CONFERENCE	CPT 1	RB	PGB2	PGB2	PGB3	EXP	ACT 1	ACT 1	9'-0"	
104	OFFICE	CPT 1	RB	PGB2	PGB3	PGB2	PGB2	ACT 1	ACT 1	9'-0"	
105	OFFICE	CPT 1	RB	PGB2	PGB4	EXP	PGB2	ACT 1	ACT 1	9'-0"	
106	TOILET	PFT 1	PWT 1/PWT 2	PWT2	PWT2	PWT1	PWT2	GYP	PGB1	9'-0"	WALL TILE FULL HEIGHT
107	TOILET	PFT 1	PWT 1/PWT 2	PWT2	PWT1	PWT2	PWT2	GYP	PGB1	9'-0"	WALL TILE FULL HEIGHT
108	BREAK ROOM	PC	RB	EXP	PGB3	PGB2	PGB2/PWT3	ACT 1	ACT 1	9'-0"	
109	OFFICE	CPT 1	RB	EXP	PGB3	PGB2	PGB2	ACT 1	ACT 1	9'-0"	
110	FILES HARDWARE STORAGE/ WORKROOM	CPT 1	RB	PGB2	PGB2	PGB2	PGB2	EXP	PGB5	11'-0"	
111	STAFF WORK AREA	CPT 1/WM/PC	RB	PGB2	PGB2	PGB2	PGB2	ACT 1	ACT 1	9'-0"	
112	IT	PC	RB	PW	PW	PGB2	PW	EXP	PGB5	11'-0"	
113	LOCKERS	PC	RB	EXP	PGB2	PGB2	PGB2	ACT 1	ACT 1	9'-0"	
114	TOILET	PFT 1	PWT 1/PWT 2	PWT2	PWT1	PWT2	PWT2	GYP	PGB1	9'-0"	WALL TILE FULL HEIGHT
115	TOILET/SHOWER	PFT 1	PWT 1/PWT 2	PWT2	PWT1	PWT2	PWT2	GYP	PGB1	9'-0"	WALL TILE FULL HEIGHT
116	JANITOR	PC	RB	PGB2	PGB2	PGB2	PGB2	EXP	PGB5	11'-0"	
117	INVENTORY	SC	-	EXP	EXP	PGB2	EXP	EXP	-	-	RM 118 & 120 BOTH INT. & EXT. WALLS - GYP - PGB2/RB
118	RP2/ MECHANICAL/ ELECTRICAL	SC	RB	PGB2	PGB2	EXP	EXP	EXP	-	-	RM 118 & 120 BOTH INT. & EXT. WALLS - GYP - PGB2/RB
119	SHOP	SC	-	EXP	EXP	PGB2	EXP	EXP	-	-	RM 118 & 120 BOTH INT. & EXT. WALLS - GYP - PGB2/RB
120	DUST COLLECTION/ AIR COMPRESSOR	SC	RB	PGB2	PGB2	EXP	PGB2	EXP	-	-	RM 118 & 120 BOTH INT. & EXT. WALLS - GYP - PGB2/RB
121	CITY STORAGE	SC	-	EXP	EXP	EXP	EXP	EXP	-	-	
122	ALCOVE	CPT 1	RB	PGB2	PGB2	PGB2	-	ACT 1	ACT 1	9'-0"	
201	EQUIPMENT PLATFORM	PW	RB	EXP	PT2	EXP	EXP	EXP	EXP		
202	MECHANICAL	PW	RB	EXP	PGB2	EXP	PGB2	EXP	-	-	

FINISH GENERAL NOTES:
1. ALL PAINTED CEILINGS TO BE FLAT FINISH, ALL PAINTED WALLS TO BE EGGSHELL FINISH, ALL PAINTED DOORS/DOOR FRAMES/TRIMS TO BE SATIN FINISH
2. SEE FURNITURE, FIXTURES, EQUIPMENT, AND FINISH PLANS FOR ADDITIONAL FINISH DETAILS

REGISTERED ARCHITECT
Timothy W. Mehlhaff
License Number 9067
5/08/2026
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DOOR TYPES, DOOR SCHEDULE AND FINISH SCHEDULE

A4.4

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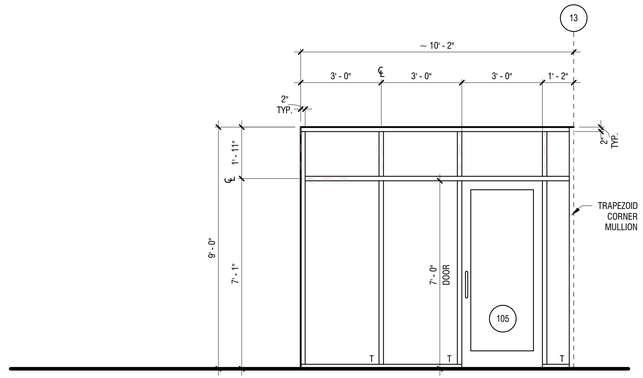
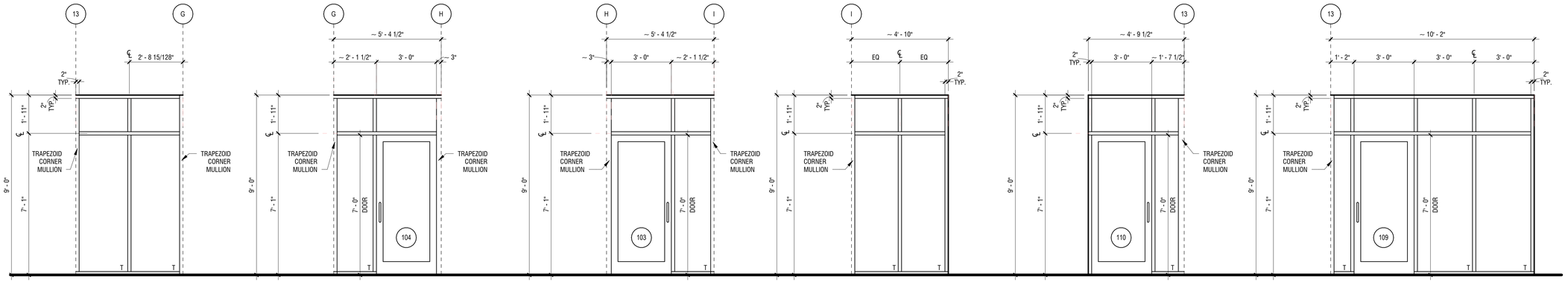


W11

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS



W10

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W9

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W8

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W7

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

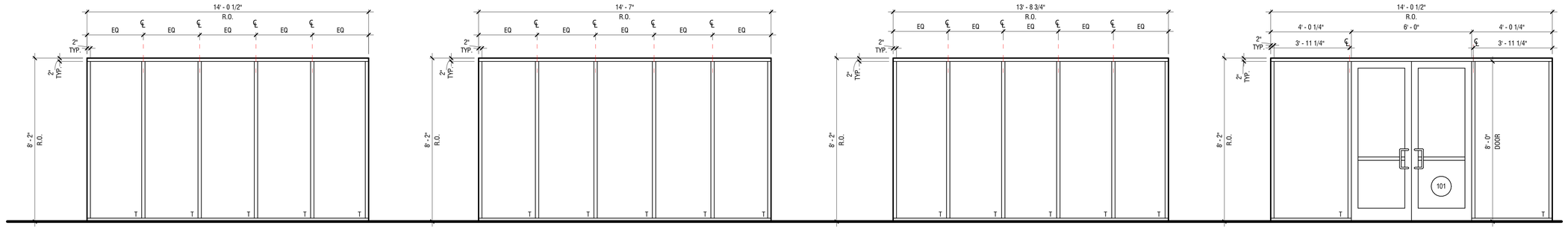
W6

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W5

INTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

2 A4.5 INTERIOR STOREFRONT LEGEND
3/8" = 1'-0"



W4

EXTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W3

EXTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W2

EXTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

W1

EXTERIOR STOREFRONT WINDOW
(2" x 4 1/2")
FINISH: BLACK
REF. SPECS

1 A4.5 EXTERIOR STOREFRONT LEGEND
3/8" = 1'-0"

REGISTERED ARCHITECT
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5/08/2026
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WINDOW TYPES & DETAILS

A4.5

BID SET
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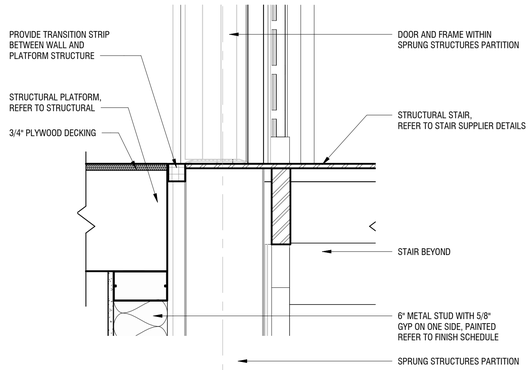
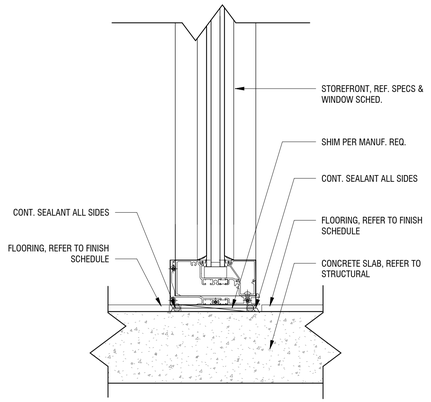
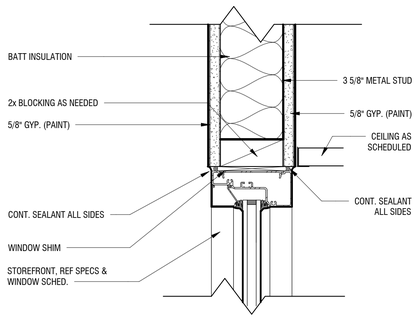


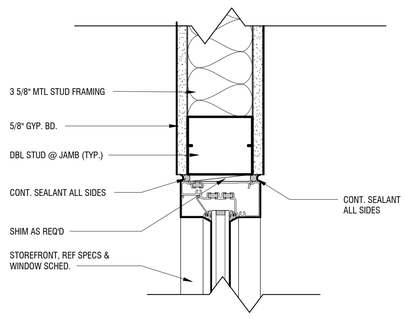
10 A4.6 THRESHOLD TRANSITION @ PLATFORM AND STAIR
1 1/2" = 1'-0"



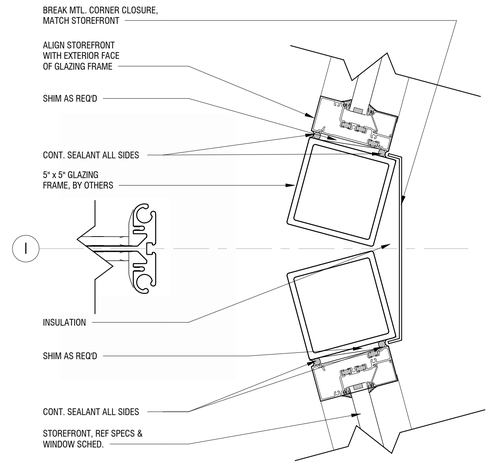
9 A4.6 STOREFRONT SILL DTL @ GLAZING FRAME
3" = 1'-0"



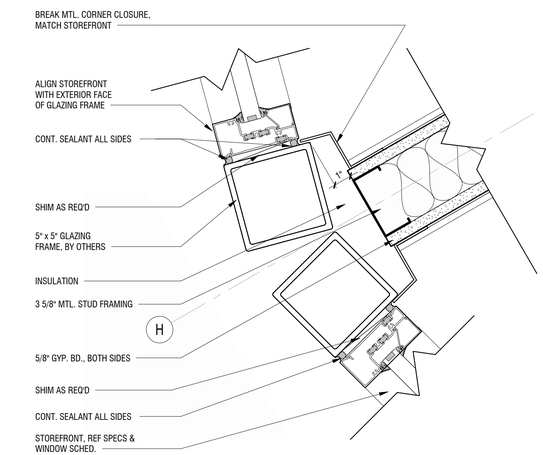
8 A4.6 STOREFRONT HEAD DTL @ GLAZING FRAME
3" = 1'-0"



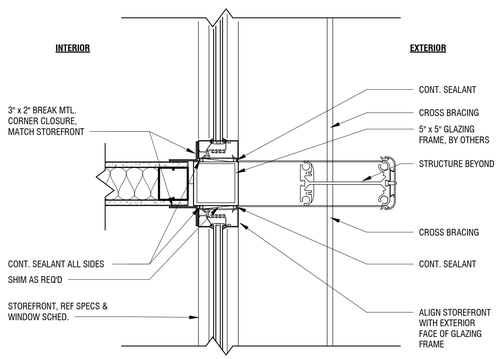
7 A4.6 INTERIOR STOREFRONT JAMB DTL @ MTL STUD
3" = 1'-0"



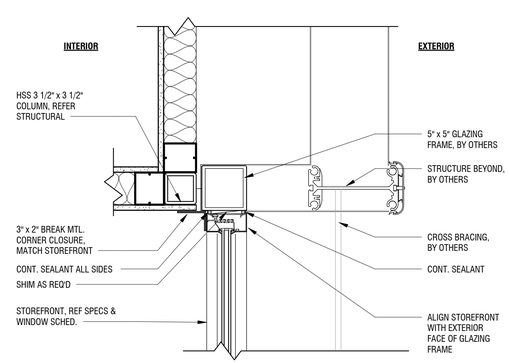
6 A4.6 PLAN DETAIL AT GLAZING FRAMES
3" = 1'-0"



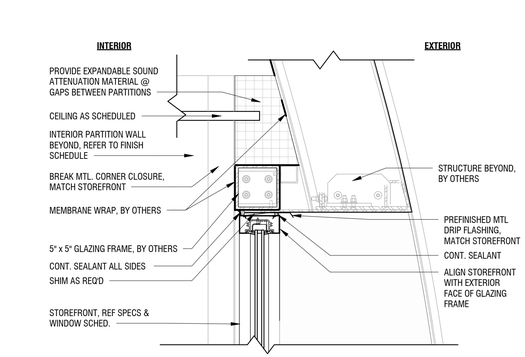
5 A4.6 PLAN DETAIL AT GLAZING FRAMES AND WALL
3" = 1'-0"



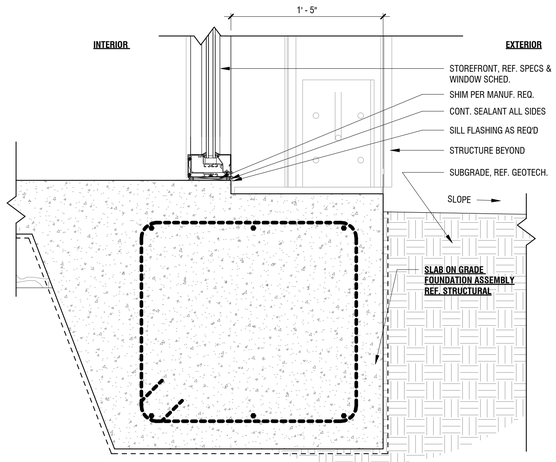
4 A4.6 STOREFRONT JAMB DTL @ GLAZING FRAME
1 1/2" = 1'-0"



3 A4.6 STOREFRONT JAMB DTL @ GLAZING FRAME
1 1/2" = 1'-0"



2 A4.6 STOREFRONT HEAD DTL @ GLAZING FRAME
1 1/2" = 1'-0"



1 A4.6 STOREFRONT DTL @ SLAB
1 1/2" = 1'-0"

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HEAD / JAMB / SILL DETAILS

A4.6

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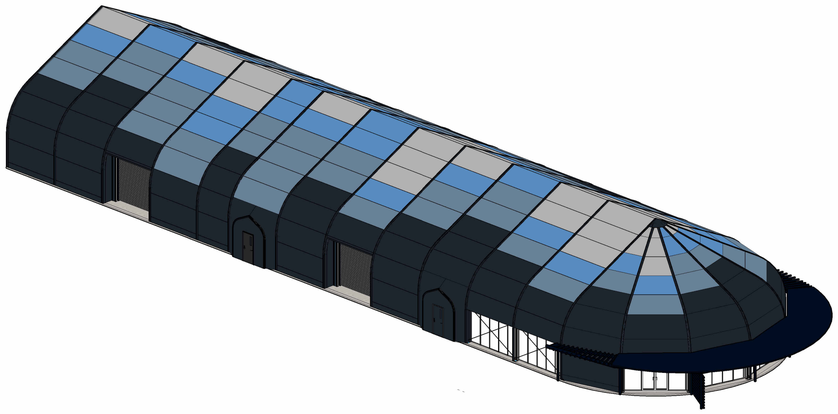
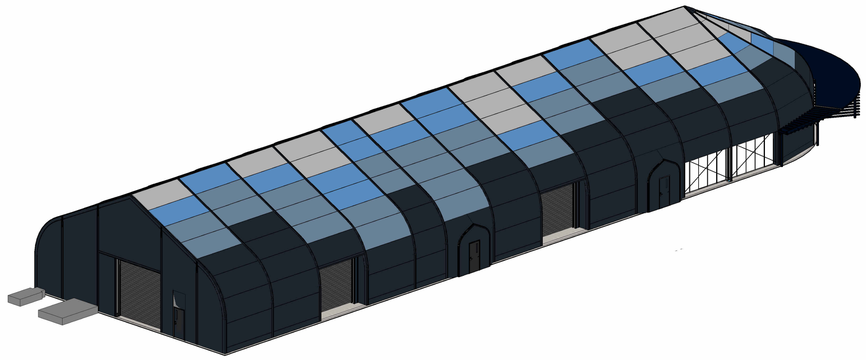
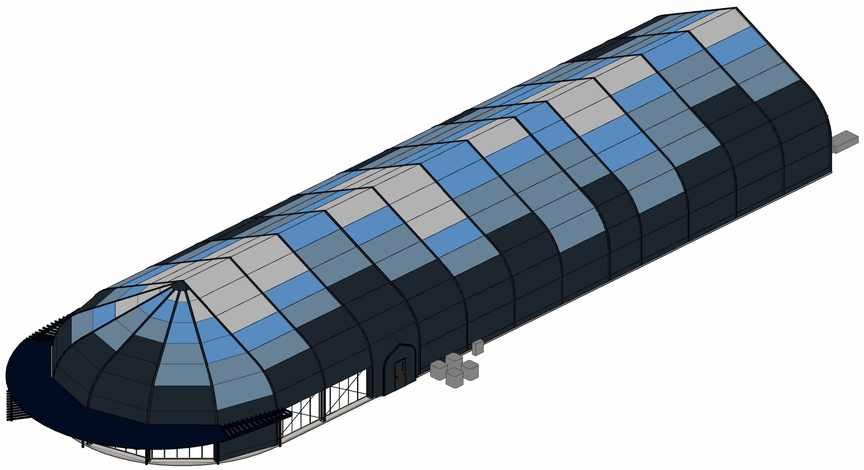


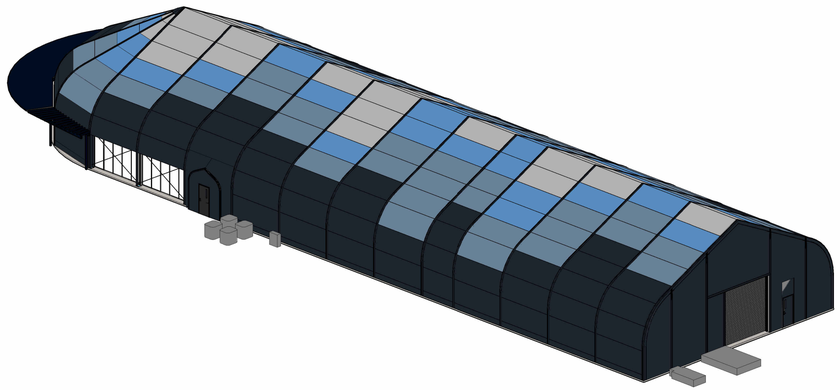
4 A9.1 NORTHWEST AXON



3 A9.1 NORTHEAST AXON



2 A9.1 SOUTHWEST AXON



1 A9.1 SOUTHEAST AXON

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3D VIEWS

A9.1

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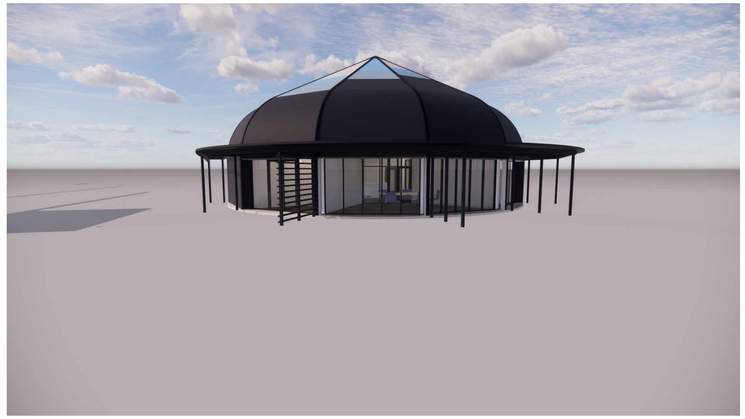
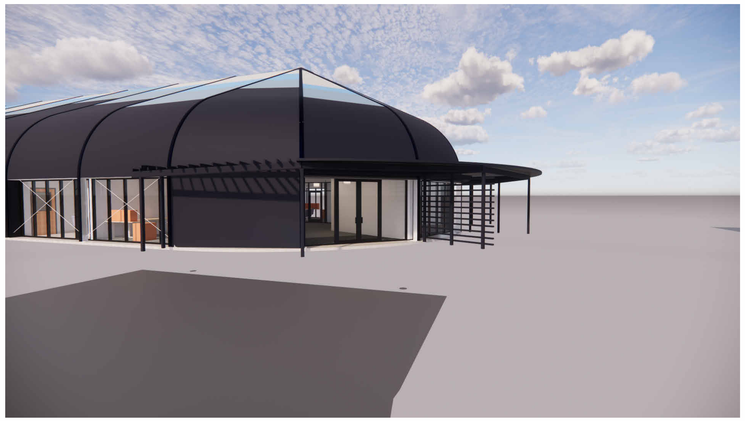
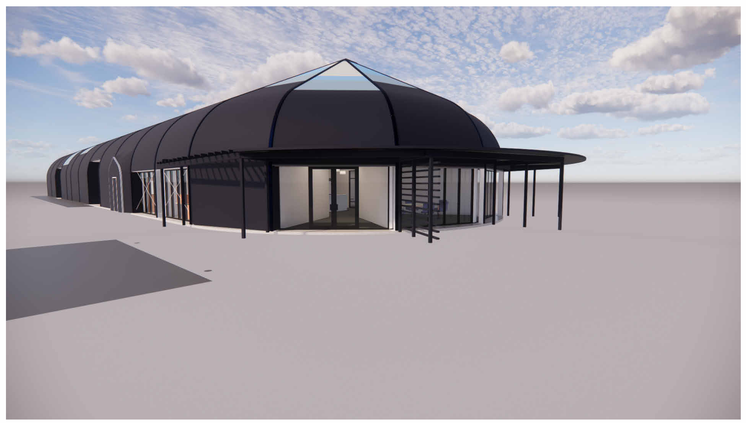


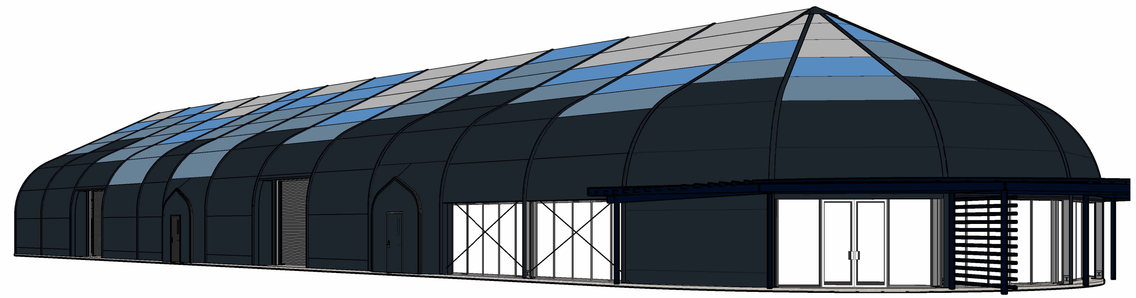
5 A9.2 EXTERIOR PERSPECTIVE
1/8" = 1'-0"



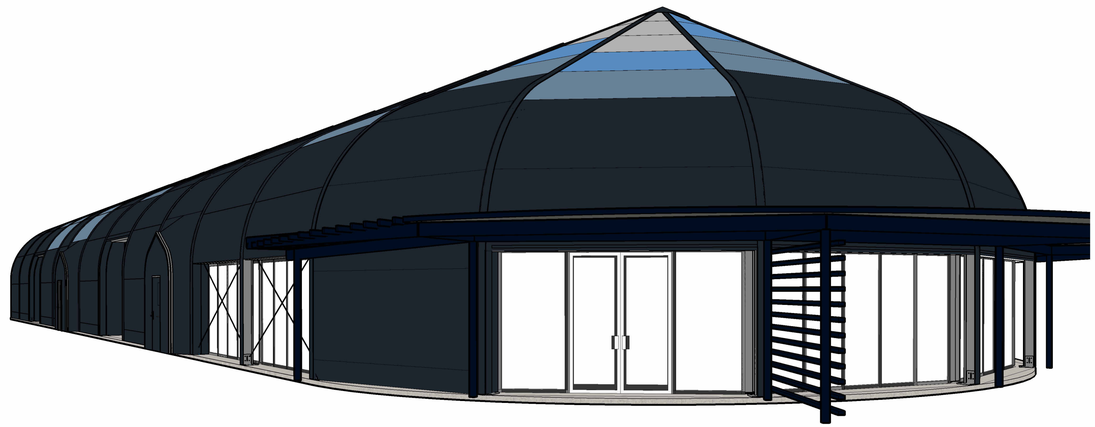
3 A9.2 EXTERIOR PERSPECTIVE
1/8" = 1'-0"



2 A9.2 EXTERIOR PERSPECTIVE



4 A9.2 OVERALL PERSPECTIVE



1 A9.2 ENTRY PERSPECTIVE

REGISTERED ARCHITECT
Timothy W. Mehlhaff
License Number 9967
5/08/2026
STATE OF ARKANSAS

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

A NEW BUILDING FOR THE
ROGERS FACILITIES DEPARTMENT
2295 N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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3D VIEWS

A9.2

BID SET
5/08/2026
62425

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SYMBOLS LEGEND

SYMBOL	DESCRIPTION
-	GRID LINES
X / XX	SECTION OR DETAIL CUT
	SHEET NUMBER
X / XX	ELEVATION CUT
	SHEET NUMBER
XXX'-XX"	ELEVATION CALLOUT
X	DRAWING REVISION NUMBER
	NEW FRAMING
X'-XX"	DIMENSIONS TO NEW STRUCTURE
	LINES
	EXISTING LINES (HALFTONE)
	CURRENT REVISION CLOUD
	STEP
	SLOPE
1	KEY NOTE
	SUBGRADE

NOTES:
1. ITEMS NOT DESIGNED BY M/M ARE SHOWN HALFTONED
   A. ITEMS INCLUDE:
      a. EXISTING CONSTRUCTION
      b. PERFORMANCE SPECIFIED AND DEFERRED SUBMITTAL ITEMS (STAIRS, RAILINGS, ETC)

ABBREVIATIONS

@	At
ACI	American Concrete Institute
ADDNL	Additional
APPROX	Approximate
CIP	Cast-In-Place
CJP	Complete Joint Penetration
CL	Centerline
CLR	Clear
CMU	Concrete Masonry Unit
CONC	Concrete
CONT	Continue or Continuous
DIA or Ø	Diameter
DIM	Dimension
DMG	Damage
DT	Precast Double Tee
DTL(S)	Detail(s)
DWG(S)	Drawing(s)
(E) or EXIST	Existing
EA	Each
EC	Epoxy Coated
EE	Each End
EF	Each Face

EJ	Expansion Joint
EL	Elevation
EMBED	Embedded
EOR	Engineer-of-Record
EQ	Equal
EQ SP	Equally Spaced
ES	Each Side
EW	Each Way
EXP ANCH	Expansion Anchor
FF	Finished Floor
FLR	Floor
FND	Foundation
FO	Face of
FP	Full Penetration or Fire Proofing
FS	Far Side
FT	Foot or Feet
FTG	Footing
GA	Gage or Gauge
GALV	Galvanized
HAS or HDAS	Headed Anchor Stud
HDAR	Headed Anchor Rod
HDG	Hot Dipped Galvanized
HVAC	Heating-Ventilating and A/C

HLL	Horizontal life line
IN	Inch
JST	Joist
k	Kip
LB(S)	Pound(s)
LL	Live Load
LLH	Long Leg Horizontal
LLV	Long Leg Vertical
LOC(S)	Location(s) or Locate
Lr	Roof Live Load
MAX	Maximum
MECH	Mechanical
MEP	Mech/Elect/Plumb
MIN	Minimum
MISC	Miscellaneous
MNFR	Manufacturer
N	North
OC	On Center
OH	Opposite Hand
OPP	Opposite
PEN	Penetration

PL	Plate (Steel)
QTY	Quantity
R	Radius
RE: or REF	Refer to (Reference)
SIM	Similar
SPECS	Specifications
SS	Stainless Steel
STD	Standard
STL	Steel
STR	Structural
T&B	Top and Bottom
T/ or T.O.	Top of
TOC	Top of Concrete
TYP	Typical
ULT	Ultimate
UNO	Unless Noted Otherwise
VIF	Verify in Field
VLL	Vertical Life Line
W/	With
W/O	Without
WF	Wide Flange

GENERAL NOTES

1) GENERAL:
1A) ENGINEER: REFERENCES ON THE STRUCTURAL DRAWINGS TO 'ENGINEER'MEAN THE STRUCTURAL ENGINEER OF RECORD. OTHER ENTITIES ARE SPECIFICALLY NOTED AS "CONTRACTOR'S ENGINEER", "MECHANICAL ENGINEER", ETC.
1B) THESE NOTES SUPPLEMENT THE SPECIFICATIONS, WHICH SHALL BE REFERENCED FOR ADDITIONAL REQUIREMENTS.
1C) UNDERGROUND UTILITIES: LOCATE EXISTING UTILITIES AND NOTIFY DESIGN/BUILDER OF EXISTING UTILITIES OR SUBGRADE CONDITIONS WHICH INTERFERE WITH WORK.
1D) STRUCTURAL ELEMENTS ARE CENTERED ON GRID LINES AND GRID LINE INTERSECTIONS UNLESS DIMENSIONED OTHERWISE.

2) USE OF DRAWINGS:
2A) DO NOT SCALE DRAWINGS.
2B) DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
2C) DETAILS NOTED TYPICAL APPLY TO ALL SIMILAR CONDITIONS. WHERE NO SPECIFIC DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ELSEWHERE ON THE PROJECT.
2D) WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL NOTES AND SPECIFICATIONS:
- CONTACT THE ARCHITECT PRIOR TO PROCEEDING WITH CONSTRUCTION

3) COORDINATION:
3A) STRUCTURAL DRAWINGS ARE NOT STAND-ALONE DOCUMENTS AND ARE INTENDED TO BE USED IN CONJUNCTION WITH CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND DRAWINGS FROM OTHER DISCIPLINES. THE CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS INTO SHOP DRAWINGS AND WORK.
3B) COORDINATE DIMENSIONS OF ALL OPENINGS, BLOCKOUTS, DEPRESSIONS, ETC., WITH ARCHITECTURAL DRAWINGS, DRAWINGS FROM OTHER DISCIPLINES, AND FIELD CONDITIONS PRIOR TO SHOP DRAWING SUBMITTAL.
3C) SEE ARCHITECTURAL PLANS FOR INTERIOR PARTITIONS. PARTITION FRAMING SHALL BE CONNECTED TO THE PRIMARY STRUCTURE IN SUCH A WAY SO AS TO ALLOW FOR VERTICAL LIVE LOAD DEFLECTIONS OF SPAN/90 AT ROOF FRAMING. DO NOT MAKE RIGID VERTICAL AND HORIZONTAL CONNECTIONS TO THE PRIMARY STRUCTURE IN THE PLANE OF THE PARTITION.

4) SUBMITTALS AND SUBSTITUTIONS:
4A) SUBMITTALS: REFER TO SPECIFICATIONS FOR DETAILED REQUIREMENTS.
- IF THE CONTRACTOR REQUESTS A CHANGE FROM THE STRUCTURAL DRAWINGS, IT SHALL BE APPROVED AND DESIGNED BY MARTIN/MARTIN, INC. PRIOR TO SUBMITTING SHOP DRAWINGS. VARIATION SHALL BE INDICATED ON THE SHOP DRAWINGS. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR MAKING THE CHANGE.
- CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE IN SUBMITTALS
- ALL SHOP DRAWINGS SHALL REFERENCE THE STRUCTURAL DRAWING NUMBER AND DETAIL USED TO PREPARE THE SUBMITTAL
- SUBMIT A STATEMENT OF RESPONSIBILITY FOR CONSTRUCTION OF THE LATERAL LOAD RESISTING SYSTEM IDENTIFIED IN THE DESIGN CRITERIA IN ACCORDANCE WITH IBC 2021 SECTION 1704

4B) SUBSTITUTIONS: APPROVAL SHALL BE SECURED FOR ALL SUBSTITUTIONS
4C) NONCONFORMANCE: NOTIFY OF CONDITIONS NOT CONSTRUCTED PER THE CONTRACT DOCUMENTS PRIOR TO PROCEEDING WITH CORRECTIVE WORK. SUBMIT PROPOSED REPAIR TO THE ARCHITECT FOR ACCEPTANCE. CONTRACTOR SHALL COMPENSATE MARTIN/MARTIN, INC. FOR DESIGNING THE REPAIR.
4D) ALL SHOP DRAWINGS SHALL BE SUBMITTED IN ELECTRONIC FORMAT ONLY.

DESIGN CRITERIA

1) CODES AND STANDARDS:
1A) GENERAL DESIGN
- INTERNATIONAL BUILDING CODE 2021

2) SEISMIC LOADS - EQUIPMENT PLATFORM
- SEISMIC DESIGN CATEGORY = C
- RISK CATEGORY = II
- EARTHQUAKE IMPORTANCE FACTOR, Ie = 1.00
- MAPPED SPECTRAL RESPONSE ACCELERATION, Ss = 0.16 g
- MAPPED SPECTRAL RESPONSE ACCELERATION, S1 = 0.09 g
- DESIGN SPECTRAL RESPONSE COEFFICIENT, Sds = 0.170
- DESIGN SPECTRAL RESPONSE COEFFICIENT, Sd1 = 0.146
- SOIL SITE CLASS = D
- STRUCTURAL SEISMIC LATERAL SYSTEM: LIGHT FRAME WALLS WITH SHEAR PANELS
- RESPONSE MODIFICATION FACTOR, R = 2
- SEISMIC RESPONSE COEFFICIENT, Cs = 0.085
- SYSTEM OVERSTRENGTH FACTOR, OMEGA = 2
- DESIGN BASE SHEAR NORMAL TO BUILDING LENGTH = 3k
- DESIGN BASE SHEAR PARALLEL TO BUILDING LENGTH = 3k
- SEISMIC ANALYSIS PROCEDURE: EQUIVALENT LATERAL-FORCE ANALYSIS

3) SEISMIC LOADS - SPRUNG STRUCTURE
- STRUCTURAL SEISMIC LATERAL SYSTEM
- RESPONSE MODIFICATION FACTOR, R = 3.5
- SEISMIC RESPONSE COEFFICIENT, Cs = 0.048
- SYSTEM OVERSTRENGTH FACTOR, OMEGA = 2.5
- DESIGN BASE SHEAR NORMAL TO BUILDING LENGTH = 10k
- DESIGN BASE SHEAR PARALLEL TO BUILDING LENGTH = 10k

4) WIND LOADS
- RISK CATEGORY = II
- BASIC ULTIMATE WIND SPEED, Vult = 107 mph
- BASIC NOMINAL WIND SPEED, Vasd = 82.9 mph
- EXPOSURE CATEGORY = C
- INTERNAL PRESSURE COEFFICIENT, GCpi = +/-0.18
- TOPOGRAPHIC FACTOR, Kzt = 1.00
- GROUND ELEVATION FACTOR, Ke = 1.00

5) DESIGN WIND PRESSURE FOR COMPONENTS AND CLADDING AND ELEMENTS DESIGNED BY THE CONTRACTOR
5A) LISTED COMPONENT AND CLADDING WIND PRESSURES ARE INCLUDED FOR REFERENCE ONLY. FINAL CALCULATIONS SHALL BE COMPLETED BY CONTRACTOR
5B) PRESSURES LISTED BELOW ARE ULTIMATE
5C) WIND ZONES SHALL BE AS DEFINED IN ASCE 7-16
5D) COMPONENT AND CLADDING SURFACE PRESSURES (PSF)

- **WALLS PRESSURES**

WALLS AREA	10 SF	100 SF	200 SF	500 SF
WALLS INTERIOR NEG ZONE 4	-26.6	-23.0	-21.9	-20.4
WALLS CORNER NEG ZONE 5	-32.7	-25.5	-23.3	-20.4
WALLS POSITIVE ZONES 4 & 5	24.5	20.9	19.8	18.4

- **ROOF PRESSURES**

ROOF AREA	10 SF	100 SF	500 SF
NEGATIVE ZONE 1	-42.7	-33.3	-26.8
NEGATIVE ZONE 1'	-24.5	-24.5	-16.6
NEGATIVE ZONE 2	-56.3	-44.3	-35.9
NEGATIVE ZONE 3	-76.7	-52.7	-35.9
POSITIVE ALL ZONES	16.0	16.0	16.0

6) SNOW LOADS
6A) DRIFTING, SLIDING AND UNBALANCED SNOW
- GROUND SNOW LOAD = 15.0 psf
- SNOW EXPOSURE FACTOR, Ce = 1.00
- SNOW LOAD IMPORTANCE FACTOR, Is = 1.0
- THERMAL FACTOR, Ct = 1.000
- UNIFORM ROOF SNOW LOAD = 15.0 psf
- FLAT ROOF SNOW LOAD = 10.5 psf

PREFABRICATED BUILDING NOTES

1) GENERAL:
1A) SUPERSTRUCTURE SHALL BE A PREFABRICATED BUILDING SYSTEM DESIGNED, MANUFACTURED, AND INSTALLED BY "SPRUNG INSTANT STRUCTURES LTD." THIS DEFERRED SUBMITTAL IS NOT DESIGNED BY MARTIN/MARTIN. REFERENCE THE DEFERRED SUBMITTAL NOTES FOR ADDITIONAL INFORMATION.
1B) THE PREFABRICATED STRUCTURE SHALL BE DESIGNED TO MEET ALL APPLICABLE CODES AND DESIGN CRITERIA LISTED IN THE STRUCTURAL DRAWINGS AND IN THE SPECIFICATIONS.
1C) DRAWINGS AND CALCULATIONS FOR PREFABRICATED BUILDING SHALL BE SIGNED AND SEALED BY A LICENSED ENGINEER IN THE STATE OF ARKANSAS.
1D) COLUMN, FOUNDATION AND FRAME LOCATIONS ARE TO REMAIN AS SHOWN ON THE STRUCTURAL AND ARCHITECTURAL DRAWINGS.
1E) FINAL COLUMN REACTIONS PER PREFABRICATED BUILDING MANUFACTURER ARE TO BE PROVIDED PRIOR TO FOUNDATION CONSTRUCTION. REVISIONS TO FOUNDATIONS MAY BE REQUIRED BASED ON THE FINAL COLUMN REACTIONS. CONTRACTOR TO MAKE ALLOWANCE FOR THIS REVISION IN THE CONSTRUCTION SCHEDULE AND PRICING.
1F) CONNECT PREFABRICATED BUILDING FRAMING TO FOUNDATIONS WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO FOUNDATIONS ARE NOT PERMITTED UNLESS NOTED ON THE DRAWINGS OR APPROVED BY THE ENGINEER IN WRITING PRIOR TO SUBMITTAL OF DRAWINGS OR CALCULATIONS.
1G) CONTRACTOR SHALL COORDINATE WITH ALL DISCIPLINES AND TRADES TO DETERMINE ALL POINT LOAD LOCATIONS AND MAGNITUDES LARGER THAN 100 LBS AND PROVIDE TO PREFABRICATED BUILDING SUPPLIER FOR DESIGN OF ENTIRE PREFABRICATED BUILDING SYSTEM. SUCH POINT LOADS MAY INCLUDE MECHANICAL DUCT WORK, MECHANICAL PIPING, FANS, PLUMBING, LARGE ELECTRICAL CONDUITS, CABLE TRAYS, FIRE SPRINKLER LINES, ARCHITECTURAL SOFFITS, ETC.

2) SERVICEABILITY:
2A) PREFABRICATED BUILDING SHALL COMPLY WITH THE FOLLOWING DRIFT AND DEFLECTION LIMITS:
- PRIMARY FRAME SNOW LOAD DEFLECTION = L/90
- PRIMARY FRAME TOTAL LOAD DEFLECTION = L/60
- MAXIMUM WIND DRIFT (SERVICE LEVEL WITH WIND LOAD = 0.42* MWFRS PRESSURE) = H/100
- MAXIMUM SEISMIC DRIFT (ULTIMATE LEVEL WITH AMPLIFICATION PER CODE) = H/50

3) FOUNDATION ANCHORS:
3A) FOUNDATION ANCHOR LAYOUT AND DESIGN SHALL BE PROVIDED BY PREFABRICATED BUILDING SUPPLIER. CONTRACTOR SHALL COORDINATE ANCHORS WITH CONCRETE THICKNESS AND REINFORCEMENT LAYOUT.

STRUCTURAL DRAWING LIST

SHEET LIST	
SHEET NUMBER	SHEET NAME
S0.00	GENERAL NOTES
S0.01	GENERAL NOTES
S0.02	QUALITY CONTROL
S1.0	FOUNDATION PLAN
S1.1	EQUIPMENT PLATFORM FRAMING PLAN
S3.0	FOUNDATION DETAILS
S3.10	SOG DETAILS
S5.0	STEEL FRAME DETAILS
S5.40	CF FRAMING DETAILS
S5.41	CF FRAMING DETAILS

STRUCTURAL STEEL NOTES

1) CONNECTIONS:
1A) PROVIDE CONNECTIONS AS SHOWN IN THE DETAILS HEREIN. REFER TO SPECIFICATION FOR ALTERNATIVES AND CONNECTIONS NOT SHOWN.

2) STEEL MATERIALS:
2A) SEE 'STEEL MATERIAL TABLE'

3) WELDING REQUIREMENTS:
3A) WELDERS: HAVE IN POSSESSION CURRENT EVIDENCE OF PASSING THE APPROPRIATE AWS. QUALIFICATION TESTS.
3B) MINIMUM WELDS: AISC SPECIFICATION, NOT LESS THAN 3/16" FILLET, CONTINUOUS UNLESS OTHERWISE NOTED.
3C) WELD SIZES AND LENGTHS CALLED FOR ON THE DRAWINGS ARE THE NET EFFECTIVE REQUIRED. INCREASE WELD SIZE IF GAPS EXIST AT THE FAYING SURFACE.
3D) WELD SIZES SHALL BE AS SHOWN UNLESS A GREATER SIZE IS REQUIRED BY ANSI/AISC 360-05 TABLES J2.3 AND J2.4.
3E) ALL GROOVE WELDS SHALL BE COMPLETE PENETRATION UNLESS NOTED.
3F) FIELD WELDING SYMBOLS INDICATE SEQUENCE CONSIDERED DURING DESIGN. THE CONTRACTOR SHALL REQUEST APPROVAL FROM THE ENGINEER TO MODIFY WELD INSTALLATION LOCATION INDICATED ON THE DOCUMENTS:
- FROM SHOP TO FIELD
- FROM FIELD TO SHOP

3G) DEFORMED ANCHOR STUDS (DAS) AND HEADED ANCHOR STUDS (HAS / HDAS) SHALL BE SHOP OR FIELD WELDED AT CONTRACTOR'S OPTION UNLESS NOTED OTHERWISE

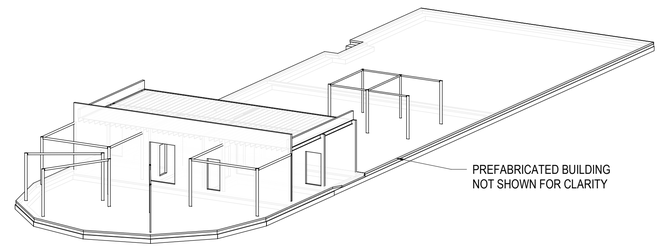
4) STRUCTURAL STEEL INSTALLATION:
4A) UNLESS INDICATED OTHERWISE, SNUG TIGHTEN ALL JOINTS AS DEFINED BY AISC

5) STRUCTURAL COLD FORMED METAL FRAMING:
5A) REFER TO DETAILS FOR MINIMUM CONNECTIONS AND OTHER REQUIREMENTS. DO NOT IMPOSE FORCES ON THE BUILDING STRUCTURE IN DIRECTIONS OR AT LOCATIONS OTHER THAN THAT SHOWN ON THE STRUCTURAL DRAWINGS.

STEEL MATERIAL TABLE

STEEL ELEMENT	ASTM/TYPE	Fy (KSI)	Fu (KSI)	COMMENTS
BOLTS	F3125 - TYPE A325 OR F1852	-	120	BOLTS ARE 3/4"Ø UNO, USE TENSION-CONTROLLED WHERE POSSIBLE
COLD-FORMED STUDS, 33 AND 43 MIL	A1003	33	-	-
COLD-FORMED STUDS, 54 MILL AND HEAVIER	A1003	50	-	-
OTHER SHAPES	A36	36	58	A572 WITH Fy=50 KSI AND Fu=65 KSI ACCEPTABLE AT CONTRACTOR'S OPTION
PLATES	A36	36	58	-
HSS	A500 GR C	50	62	-
WELDING ELECTRODES, THICKNESS OF THINNER PART > 0.1 INCHES (12 GA)	E70	-	-	PER AWS
WELDING ELECTRODES, THICKNESS OF THINNER PART ≤ 0.1 INCHES (12 GA)	E70	-	-	PER AWS

ISOMETRIC



STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19889
BENJAMIN W DOWNEY
05-08-2026

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

Owner
ROGERS FACILITIES DEPARTMENT
N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

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GENERAL NOTES

S0.00

BID SET
5/08/2026
62425

DESIGNERS: CHRISTINA ULUDAG
LEAD REVIT TECH: OLIVIA GRIMES
DATE PRINTED: 5/8/2026 11:10:58 AM
FILE PATH: Autodesk Docs://ACC-MM S25/25.1808.S.01 - Rogers Facilities Department - S25.rvt
MM JOB #: 62425
PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

5/8/2026 11:10:58 AM

FOUNDATION NOTES

1) DESIGN CRITERIA:
THE GEOTECHNICAL REPORT PREPARED BY OLSSON, PROJECT NUMBER 025-04977, DATED 02/04/2026 PROVIDED CRITERIA FOR THE FOUNDATION DESIGN FOR THE PROJECT.

2) FOOTINGS:
2A) FOOTING DESIGN CRITERIA:
- ALLOWABLE BEARING PRESSURE, COLUMN = 2,500 psf
- ALLOWABLE BEARING PRESSURE, CONTINUOUS = 2,000 psf
- MINIMUM CONTINUOUS FOOTING WIDTH = 2.5 ft
- MINIMUM SPREAD FOOTING WIDTH = 3 ft
- COEFFICIENT OF FRICTION TO RESIST LATERAL LOADS = 0.3
- FROST DEPTH TO BOTTOM OF FOUNDATION = 24 in

3) SITE PREPARATION:
3A) ALL EXISTING FILL MATERIAL BELOW BUILDING FOOTPRINT AND 5 FEET BEYOND BUILDING FOOTPRINT SHALL BE REMOVED DOWN TO SUITABLE NATIVE MATERIAL PER THE GEOTECHNICAL REPORT AND REPLACE WITH PROPERLY COMPACTED, MOISTURE CONDITIONED STRUCTURAL FILL MATERIAL.
3B) PROVIDE A MINIMUM OF 12" OF PROPERLY COMPACTED, MOISTURE CONDITIONED STRUCTURAL FILL MATERIAL BELOW SLAB ON GRADE.
3C) REFER TO GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS

WOOD NOTES

1) SHEATHING:
1A) PLYWOOD:
- CONFORM TO U.S. DEPARTMENT OF COMMERCE STANDARDS PS 1-10.

APA RATED SHEATHING

PANEL SPAN RATING	PANEL THICKNESS
32/16	15/32", 1/2"
40/20	19/32", 5/8"

DEFERRED SUBMITTAL NOTES

1) GENERAL:
1A) THE FOLLOWING PORTIONS OF THE STRUCTURAL DESIGN WILL NOT BE SUBMITTED AT THE TIME OF PERMIT APPLICATION. WHEN RECEIVED AND REVIEWED, THESE DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO THE BUILDING OFFICIAL BY THE CONTRACTOR:
- PREFABRICATED BUILDINGS
- METAL STAIRS
- METAL RAILINGS
- NON-LOAD BEARING INTERIOR COLD-FORMED FRAMING REQUIRING ENGINEERING
- ANCHORAGE, BRACING, AND ATTACHMENT OF REQUIRED ARCHITECTURAL, MECHANICAL, ELECTRICAL, PLUMBING, FIRE SPRINKLERS, AND OTHER EQUIPMENT AND SYSTEMS

1B) CONNECTION OF DEFERRED SUBMITTAL ITEMS TO PRIMARY STRUCTURE BY DEFERRED SUBMITTAL SUPPLIER. DEFERRED SUBMITTAL SUPPLIER TO PROVIDE CONNECTIONS AND FRAMING ARRANGEMENT TO AVOID LOADING WHICH EXCEEDS THE CAPACITY OF THE ELEMENT BEING ATTACHED TO. GC COORDINATE LOADING FROM DEFERRED SUBMITTAL ITEMS WITH PRE-ENGINEERED METAL BUILDING SUPPLIER / DESIGNER.
1C) ALL DEFERRED SUBMITTALS TO BE ATTACHED TO PRIMARY STRUCTURE WITH A PINNED CONNECTION. MOMENT CONNECTIONS TO PRIMARY STRUCTURE NOT PERMITTED.
1D) LOADING AND LOCATION FOR ATTACHMENT OF DEFERRED SUBMITTAL ITEMS ARE NOTED ON DRAWINGS AND ARE NOT TO BE RE-LOCATED OR INCREASED WITHOUT WRITTEN APPROVAL.

CONCRETE NOTES

1) GENERAL:
1A) ALL WORK SHALL CONFORM WITH ACI 301-10, UNLESS NOTED OTHERWISE IN DRAWINGS OR PROJECT SPECIFICATIONS.
1B) DETAIL BARS IN ACCORDANCE WITH THE DRAWINGS, PROJECT SPECIFICATIONS, AND ACI PUBLICATION SP-66 (2004): "ACI DETAILING MANUAL."

2) REINFORCING MATERIALS:
2A) TYP REINFORCING: ASTM A615, Fy=60 KSI
2B) WELDED AND FIELD BENT REINFORCING: ASTM A706, Fy=60 KSI
2C) WELDED WIRE REINFORCING, SMOOTH: ASTM A1064, Fy=65 KSI

3) REINFORCING FABRICATION:
3A) SPLICES:
- NO SPLICING OF REINFORCEMENT PERMITTED EXCEPT AS NOTED ON DRAWINGS. MAKE BARS CONTINUOUS AROUND CORNERS WHERE DETAIL NOT PROVIDED. WHERE PERMITTED, SPLICES MAY BE MADE BY CONTACT LAPS
- SEE LAP SPLICE SCHEDULE FOR LAP LENGTHS.

3B) MISCELLANEOUS REINFORCING REQUIREMENTS:
- PROVIDE ADDITIONAL BARS OR STIRRUPS REQUIRED TO SECURE REINFORCING IN PLACE DURING CONCRETE PLACEMENT.
- MAKE ALL REINFORCING BAR BENDS IN THE FABRICATOR'S SHOP UNLESS NOTED.
- NO WELDING OF REINFORCING PERMITTED UNLESS NOTED ON DRAWINGS. WHERE PERMITTED, PERFORM WELDING IN ACCORDANCE WITH AWS D1.4-2011.
- PROVIDE ADDED REINFORCING TO TRIM ALL OPENINGS, NOTCHES, AND REENTRANT CORNERS AS NOTED IN TYPICAL DETAILS.

4) STRUCTURAL CONCRETE MIX REQUIREMENTS:
4A) SEE 'CONCRETE MIX TABLE'

5) SLAB-ON-GRADE:
5A) TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB OR USE LEVELING COMPOUND IF FLOOR FLATNESS AND LEVELNESS VALUES ARE NOT ACCEPTABLE TO THE ARCHITECT.

6) NON-SHRINK GROUT:
6A) CONFORM TO ASTM C1107
6B) ACHIEVE 6000 PSI COMPRESSIVE STRENGTH AT 28 DAYS.

7) PLACING REINFORCEMENT:
7A) REINFORCEMENT PROTECTION (COVER):
- SEE 'REBAR COVER TABLE'
- SEE ACI 117-10 FOR REINFORCEMENT PLACING TOLERANCES

7B) PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING AND WELDED WIRE REINFORCEMENT AT POSITIONS SHOWN ON PLANS. ALL REINFORCING, DOWELS, BOLTS, AND EMBEDDED PLATES SHALL BE SET AND TIED IN PLACE BEFORE THE CONCRETE IS POURED. "STABBING"INTO PREVIOUSLY PLACED CONCRETE IS NOT PERMITTED.

8) CONSTRUCTION/CONTROL JOINTS:
8A) SUBMIT DRAWINGS SHOWING CONSTRUCTION AND CONTROL JOINT LOCATIONS ALONG WITH THE SEQUENCE OF POURS. CONSTRUCTION JOINT LOCATIONS AND CASTING SEQUENCE SHALL BE ARRANGED TO MINIMIZE THE EFFECTS OF ELASTIC AND LONG-TERM SHORTENING/SHRINKAGE
8B) CONSTRUCTION JOINTS IN SLABS-ON-DECK, SLABS-ON-GRADE, AND STRUCTURAL SLABS SHALL BE LOCATED TO ACCOMMODATE THE MAXIMUM LENGTH AND AREA THE CONTRACTOR CAN REASONABLY POUR, FINISH, AND JOINT IN THE SAME DAY.
8C) CONCRETE CONSTRUCTION JOINT SURFACE SHALL BE CLEANED AND ALL LAITANCE AND LOOSE MATERIAL REMOVED PRIOR TO SECOND CONCRETE PLACEMENT.

9) MODIFICATIONS TO HARDENED OR EXISTING CONCRETE
9A) UNLESS NOTED ON THE STRUCTURAL DOCUMENTS MODIFICATIONS AS LISTED BELOW SHALL NOT BE MADE TO HARDENED OR EXISTING CONCRETE WITHOUT APPROVAL OF THE ARCHITECT:
- SAW CUTTING
- CORING
- CHIPPING

9B) DO NOT CUT OR DAMAGE ANY REINFORCING WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER

10) SLEEVES, OPENINGS, AND EMBEDDED PIPE/CONDUITS:
10A) GENERAL
- REFER TO TYPICAL DETAILS FOR SPACING AND LAYOUT LIMITATIONS FOR SLEEVES AND OPENINGS
- FORM OPENINGS AND PROVIDE SLEEVES BEFORE PLACING CONCRETE, CORING OF CONCRETE IS NOT PERMITTED

10B) REINFORCING
- REFER TO TYPICAL DETAILS FOR REINFORCEMENT REQUIREMENTS AT SLEEVES, OPENINGS OR CONDUIT
- DO NOT CUT REINFORCING WHICH MAY CONFLICT

CONCRETE MIX TABLE

INTENDED USE	28 DAY STRENGTH f'c (KSI)	CONC WEIGHT	MAX W/C RATIO, INCLUDING FLY ASH	MAX AGGREGATE SIZE, IN (ASTM C33)	TOTAL AIR CONTENT (%), NOTE 4	OTHER REQTS
FOOTINGS	4	NWC	0.50	1 (#57)	-	-
INTERIOR SLAB ON GRADE	4	NWC	0.50	3/4 (#67)	NP	-

CONCRETE MIX TABLE NOTES:
1) CONCRETE MIX DESIGNS ARE A PERFORMANCE SPECIFIED ITEM DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL PROVIDE A CONCRETE MIX MEETING THE PERFORMANCE REQUIREMENTS SPECIFIED IN THE "CONCRETE MIX TABLE" IN ADDITION TO THE REQUIREMENTS BELOW

2) PROPORTIONS OF MATERIALS IN CONCRETE MIXES SHALL BE ESTABLISHED TO:
2A) PROVIDE THE MINIMUM COMPRESSIVE STRENGTH AS INDICATED IN THE MIX TABLE. DO NOT EXCEED THE MAXIMUM WATER-CEMENT RATIO
2B) PROVIDE WORKABILITY AND CONSISTENCY FOR SLAB FINISHING AND TO PERMIT CONCRETE TO BE WORKED READILY INTO FORMS AND AROUND REINFORCEMENT UNDER CONDITIONS OF PLACEMENT TO BE EMPLOYED WITHOUT SEGREGATION OR EXCESSIVE BLEEDING. CONTRACTOR SHALL SELECT APPROPRIATE SLUMP. USE ADMIXTURES AS REQUIRED TO OBTAIN DESIRED RESULTS
2C) FOR CONCRETE PLACED BY PUMPING, PROVIDE CONCRETE MIX FLOWABILITY TO FACILITATE PUMPING. ENTRAINED AIR MAY BE USED TO FACILITATE PUMPING SUBJECT TO THE PROVISIONS OF NOTE 4 BELOW

3) FOR THE MAXIMUM COARSE AGGREGATE SIZE INDICATED, USE THE FOLLOWING AGGREGATE SIZE NUMBERS PER ASTM C33:
- 3/4": #67 AGGREGATE
- 1": #57 AGGREGATE

4) WHERE AIR CONTENT IS INDICATED IN THE MIX TABLE, PROVIDE AIR ENTRAINING ADMIXTURE TO MEET THE SPECIFIED AIR PERCENTAGE. TOTAL AIR CONTENT LIMITS INCLUDE BOTH ENTRAINED AND ENTRAPPED AIR ±1 1/2%. "NP" IN COLUMN INDICATES ADDITION OF ENTRAINED AIR IS NOT PERMITTED EXCEPT WHERE CONTRACTOR CAN DEMONSTRATE SLABS WITH ENTRAINED AIR WILL HAVE A FINISH ACCEPTABLE TO THE ARCHITECT WITHOUT BLISTERS. AIR CONTENT NOTED IS BASED ON 3/4" AGGREGATE.

5) USE PORTLAND CEMENT TYPE I/II OR BLENDED HYDRAULIC CEMENT ASTM C595 TYP IL

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GENERAL NOTES

S0.01

BID SET
5/08/2026 62425

MM JOB #: 62425
PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG
DESIGNERS: CHRISTINA ULUDAG
LEAD REVIT TECH: OLIVIA GRIMES
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JOBSITE TESTING & INSPECTION REQUIREMENTS - CONCRETE

Testing / Inspection Type	1	2	3	4	5
CAST-IN-PLACE CONCRETE INSPECTION & TESTING					
Before Placing Concrete					
Formwork Dimensional Layout		100%			
Reinforcing Steel Placement		100%			
Bolts & Embedments Placement		100%			
Bolts & Embedments Welding			P		
Reinforcement Welding			C		
Reinforcement Field Bending			P		
Mechanical Connectors			P		
Epoxy or Galvanized Reinforcing	100%				
During Concrete Placement					
Verify Design Mix	100%				
Concrete Mix Testing				C	
Concrete Placement Inspection			C		
Concrete Curing Inspection			P		
After Concrete Placement					
Cold Weather Curing			P		
Form Removal			P		
Floor Flatness (FF) & Levelness (FL)				P	

JOBSITE TESTING & INSPECTION REQUIREMENTS - COLD FORMED STEEL

Testing / Inspection Type	1	2	3	4	5
STRUCTURAL COLD FORMED STEEL INSPECTIONS & TESTING					
Framing					
Members & connections		P			
Bridging & blocking layout & conns		P			
No field cuts / notches through flanges		P			
No member splices except where shown		P			
Punchouts are away from bearings/conns		P			
Studs seated in tracks per details		P			
Floor / roof framing aligned with studs		P			
Cold formed steel truss layout		P			
Cold formed steel truss bridging		P			
Sheathed Walls					
Panel sheathing type & thickness		P			
Attachment type / spacing at boundaries & field		P			
Hold-downs type, size, layout, conns		100%			
Welded Attachments					
Procedures, materials, qualifications	100%				
During welding			P		
After welding			P		
Corrosion resistance treatment			P		
Screwed Attachments					
Type, Ø, length, spacing, edge distance		P			
Penetration		P			
Connected materials drawn together		P			
No popped screw heads/stripped threads		P			
Powder-Actuated Fasteners					
Type, Ø, length, spacing, edge distance		P			
Conformance with ICC-ES Report	P				

JOBSITE TESTING & INSPECTION REQUIREMENTS - WOOD

Testing / Inspection Type	1	2	3	4	5
STRUCTURAL WOOD SPECIAL INSPECTIONS & TESTING					
Connections - Fasteners, Bolts, Metal Plate Connectors, Gluing					
All Fasteners (Nails, Bolts, Screws, etc.) Type, Ø, length, spacing, edge distance		P			
Sheathing & Diaphragms					
Sheathing type & thickness		P			
Attachment type / spacing at boundaries & field		P			

JOBSITE TESTING & INSPECTION REQUIREMENTS - STEEL

Steel Testing & Inspection Definitions	
UT	Ultrasonic Testing
MT	Magnetic Particle Testing
PT	Penetration Testing
SFRS	Seismic Force Resisting System
TTT	Tension Through Thickness

Testing / Inspection Type	1	2	3	4	5
Prior to Bolting					
Verify Manufacturer's Certifications	C				
Preinstallation bolt testing	C				
Verify bolt material, Ø, handling	P				
Verify bolting procedure			P		
Verify connecting element preparation			P		
During Bolting					
Verify bolts in all holes			100%		
Verify bolts positioned as required			P		
After Bolting					
Document acceptance/rejection of joints			C		
Prior to Welding					
Verify welder quals	C				
Verify ID system	P				
Verify WPS available	C				
Verify base material & weld material	P				
Verify weld procedures & weld equipment	P				
Verify joint fit-up, prep, backing, etc.		P			
During Welding					
Use of qualified welders	P				
Handling of welding consumables			P		
No welding over cracked tack welds			P		
Environment conditions (wind/temp, etc)			P		
Verify WPS followed			P		
Welding techniques			P		
After Welding					
Verify welds cleaned			P		
Verify weld size, length & location			C		
Welds meet visual acceptance criteria			C		
Arc strikes			C		
Verify no cracking in k-areas and at weld access holes			C		
Repair activities			C		
Document acceptance/rejection of joints			C		
UT CJP welds, material ≥5/16", I & II				10%	
After Galvanizing					
Inspect exposed cut surfaces and HSS corners for cracks			100%		
After Fabrication/Erection					
Inspect steel members or erected steel frame			100%		

JOBSITE TESTING & INSPECTION REQUIREMENTS - SOILS AND FOUNDATIONS

Testing / Inspection Type	1	2	3	4	5
SOIL INSPECTION & TESTING					
Excavation Extents & Depths		P			
Subgrade Material Verification		P			
Controlled Fill Placement		C			
Bearing Material Verification				P	
Fill Material Verification		C			

QUALITY ASSURANCE GENERAL NOTES
STATEMENT OF STRUCTURAL SPECIAL INSPECTIONS AND TESTING

1) GENERAL

1A) SCOPE OF WORK

- THE OWNER WILL ENGAGE A QUALIFIED INSPECTION AND TESTING AGENCY(S) TO PERFORM SPECIAL INSPECTIONS AND TESTING FOR ALL STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SUBMIT DOCUMENTATION OF QUALIFICATIONS, INCLUDING COMPETENCE AND RELEVANT WORK EXPERIENCE OR TRAINING OF SPECIAL INSPECTORS TO THE AUTHORITY HAVING JURISDICTION PRIOR TO THE START OF WORK.
- SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE AUTHORITY HAVING JURISDICTION REQUIRED BY IBC 2021 SECTION 110.
- REFER TO THE SPECIFICATIONS FOR REPORTING AND PROCEDURAL REQUIREMENTS FOR QUALITY ASSURANCE AND QUALITY CONTROL.
- REFER TO ARCH/MECH/ELEC/CIVIL SPECIFICATIONS AND DRAWINGS FOR ADDITIONAL SPECIAL INSPECTION AND TESTING THAT MAY BE REQUIRED.

1B) SPECIAL INSPECTIONS AND TESTING ARE APPLICABLE TO ALL REVISIONS AND/OR FUTURE WORK ADDED BY AMENDMENTS TO THESE DOCUMENTS.

1C) DEFINITIONS

- SPECIAL INSPECTOR: THE AGENCY ENGAGED BY THE OWNER AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO ACT AS THE DESIGNATED REPRESENTATIVE TO PERFORM INSPECTIONS. SPECIAL INSPECTION: INSPECTION PERFORMED BY THE SPECIAL INSPECTOR ACCORDING TO IBC 2021 SECTION 1704 TO ENSURE COMPLIANCE WITH APPROVED CONSTRUCTION DOCUMENTS
- AND REFERENCED STANDARDS.
- (P) PERIODIC INSPECTION: THE PART-TIME OR INTERMITTENT OBSERVATION BY THE SPECIAL INSPECTOR OF WORK BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.
- (C) CONTINUOUS INSPECTION: THE FULL-TIME OBSERVATION BY THE SPECIAL INSPECTOR OF WORK
- BEING PERFORMED. SPECIAL INSPECTOR SHALL BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. OBSERVATION OF ALL WORK (100% VISUAL) SHALL BE MADE AT THE COMPLETION OF THE WORK.

1D) DEFICIENCIES IN WORK

- CORRECT DEFICIENCIES IN WORK THAT TESTS AND INSPECTIONS INDICATE DO NOT COMPLY WITH THE CONTRACT DOCUMENTS AND EFERENCED STANDARDS.
- ALL COST OF ADDITIONAL TESTING AND/OR INSPECTIONS FOR CORRECTIVE WORK SHALL BE BORNE BY THE CONTRACTOR.

2) SHOP FABRICATIONS:

2A) GENERAL

- PERFORM INSPECTIONS AND TESTING FOR ALL SHOP FABRICATED STRUCTURAL MEMBERS AND ASSEMBLIES AS NOTED HEREIN. SPECIAL INSPECTOR SHALL PERFORM SPECIAL INSPECTIONS AND TESTING UNLESS THE FABRICATOR IS REGISTERED AND APPROVED BY THE AUTHORITY HAVING JURISDICTION TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.
- SPECIAL INSPECTOR SHALL VERIFY THE FABRICATOR MAINTAINS AND FOLLOWS DETAILED SHOP FABRICATION AND QUALITY CONTROL PROCEDURES, UNLESS FABRICATOR IS REGISTERED AND APPROVED. AT THE COMPLETION OF FABRICATION, THE APPROVED FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE AUTHORITY HAVING JURISDICTION ACCORDING TO IBC 2021 SECTION 1704.2.5.1.
- APPROVED FABRICATORS MAY PERFORM TESTING NOTED HEREIN EXCEPT THAT NONDESTRUCTIVE TESTING (NDT) SHALL ONLY BE PERFORMED BY PERSONNEL WITH QUALIFICATIONS THAT MEET OR EXCEED THE CRITERIA OF AWS DI .1 SUBCLAUSE 6.14.6 AND AMERICAN SOCIETY FOR NONDESTRUCTIVE TESTING (ASNT) SNT-TC-IA OR ASNT CP-189.

2B) SHOP FABRICATIONS INCLUDED

- SHOP FABRICATED STRUCTURAL STEEL
- SHOP FABRICATED COLD FORMED STEEL ELEMENTS

JOBSITE TESTING & INSPECTION REQUIREMENTS - GENERAL

Inspection / Testing General Notes:

1. Special inspections & testing indicated in the attached tables will be completed by the Owner's 3rd party testing & inspection agency.
2. Contractor shall request and coordinate testing & inspection activities with the 3rd party agency to meet the requirements of the attached tables, notes and specifications.
3. See specifications section 014010 for additional information and requirements of each inspection / test.

TESTING & INSPECTION TYPES	
1	Material Verification & Workman Certifications
2	Site Inspection for Layout & Quantities
3	Site Inspection for Procedures & Workmanship
4	Site Testing for Material Properties & Workmanship
5	Fabrication Facility Inspection & Testing for Workmanship
TESTING & INSPECTION FREQUENCY DEFINITIONS	
C	Continuous Inspection - Full-time observation by the special inspector of the work being performed.
P	Periodic Inspection - The part-time or intermittent observation by the special inspector of the work being performed. 100% visual observation of all work at the completion of the work.
##%	##% observation / testing prior to concealment of indicated element

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QUALITY CONTROL

S0.02

BID SET
5/08/2026
62425

MM./JOB #: 62425
PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

DESIGNERS: CHRISTINA ULUDAG
LEAD REVIT TECH: OLIVIA GRIMES
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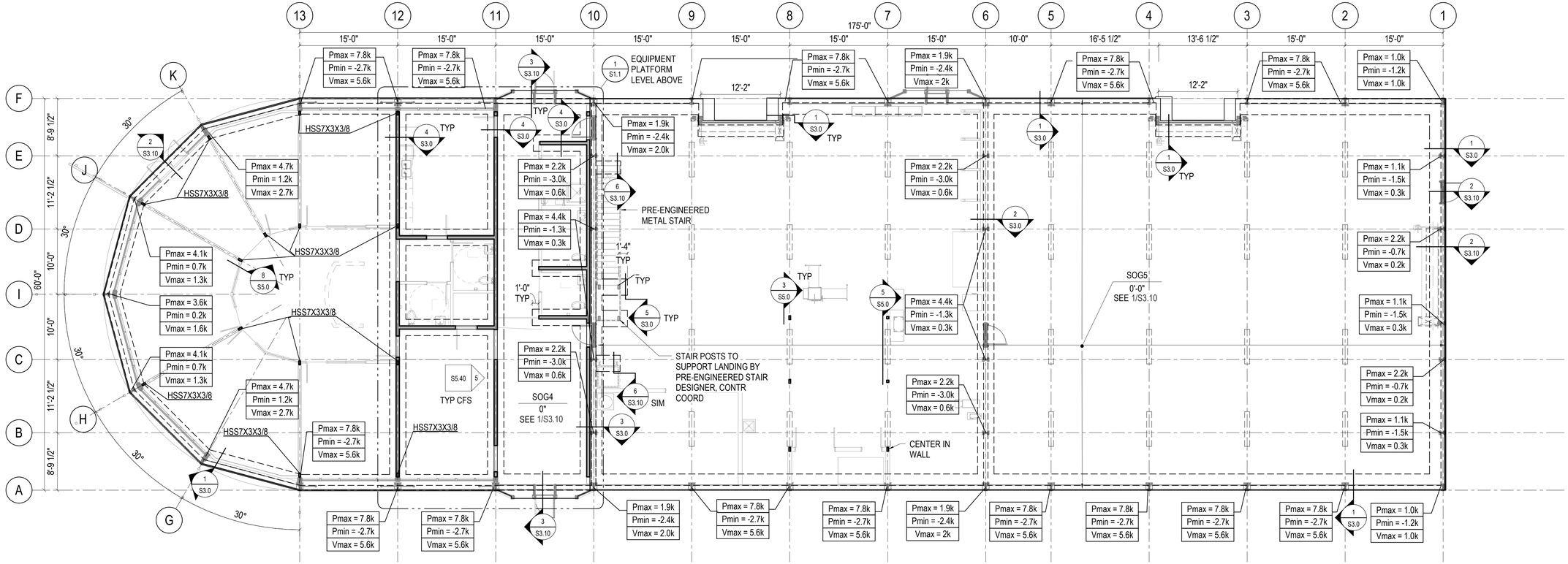

1 FOUNDATION PLAN

1/8" = 1'-0"

NORTH

ALLOWABLE FRAME REACTIONS

Pmax=XXx	MAXIMUM AXIAL LOAD
Pmin=-XXk	MINIMUM AXIAL LOAD
Vmax=Xk	MAX SHEAR LOAD IN STRONG AXIS OF COL

NOTES:
REACTIONS FOR FOUNDATION DESIGN ARE ALLOWABLE STRESS DESIGN (ASD), BASED ON LOAD COMBINATIONS FROM ASCE 7-16, SECTION 2.4.

FOUNDATION PLAN NOTES:

1) GENERAL:
1A) SEE S0 SERIES SHEETS FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
1B) SEE S3 SERIES SHEETS FOR TYPICAL CONCRETE DETAILS.
1C) SEE ARCHITECTURAL/CIVIL DRAWINGS FOR USGS ELEVATION EQUAL TO 0'-0"

2) FOUNDATIONS:
2A) ALL FOUNDATIONS ARE CENTERED ON THE SUPPORTED COLUMN UNLESS DIMENSIONED OTHERWISE.
2B) SEE 1/S3.0 FOR EXTERIOR CONTINUOUS FOOTING REQUIREMENTS.
2C) SEE 12/S3.0 FOR EXCAVATION REQUIREMENTS NEAR FOOTINGS, CONTRACTOR COORDINATE.
2D) SEE 9/S3.0 FOR REQUIREMENTS FOR UNDERGROUND UTILITIES PASSING BELOW FOOTINGS

3) SLAB-ON-GRADE: 0
3A) SEE DETAIL 1/S3.10 FOR TYPICAL SLAB-ON-GRADE DETAIL.
3B) SEE DETAIL 7/S3.10 FOR TYPICAL SLAB-ON-GRADE LAYOUT/INFORMATION.
3C) SEE ARCH AND MECH DRAWINGS FOR SLAB SLOPES, DEPRESSIONS, FILL, PADS, AND CURBS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
3D) SEE ARCH DRAWINGS FOR VAPOR RETARDER LOCATIONS. INSTALL VAPOR RETARDER DIRECTLY UNDER SLAB PER RECOMMENDATIONS OF PCA AND ACI 302.1R-04. TAKE PRECAUTIONS TO MINIMIZE SLAB CURLING. GRIND SLAB TO ACHIEVE SPECIFIED FLOOR FLATNESS AND LEVELNESS VALUES.
3E) SEE GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION REQUIREMENTS.
3F) COORDINATE SLAB ON GRADE THICKNESS REQUIREMENTS WITH EQUIPMENT MANUFACTURERS. REVISIONS TO THE SLAB ON GRADE MAY BE REQUIRED BASED ON THE FINAL EQUIPMENT SELECTIONS. CONTRACTOR TO MAKE ALLOWANCE FOR THIS REVISION IN THE CONSTRUCTION SCHEDULE AND PRICING.

4) PREFABRICATED SPRUNG STRUCTURE BUILDING NOTES:
4A) COLUMN, FOUNDATION AND FRAME LOCATIONS TO REMAIN AS SHOWN ON PLAN.
4B) LOADS SHOWN ON THE PLAN ARE MAXIMUM SERVICE LOADS ASSUMED FOR FOUNDATION DESIGN. "P" LOADS ARE APPLIED IN THE VERTICAL DIRECTION. "V" LOADS ARE SHEAR LOADS DUE TO WIND OR SEISMIC LOAD COMBINATIONS AND CAN OCCUR IN EITHER INDICATED DIRECTION.
4C) SEE "PREFABRICATED BUILDING NOTES" ON S0.00 FOR ADDITIONAL REQUIREMENTS.

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FOUNDATION PLAN

S1.0

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5/08/2026 62425

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LEAD REVIT TECH: OLIVIA GRIMES
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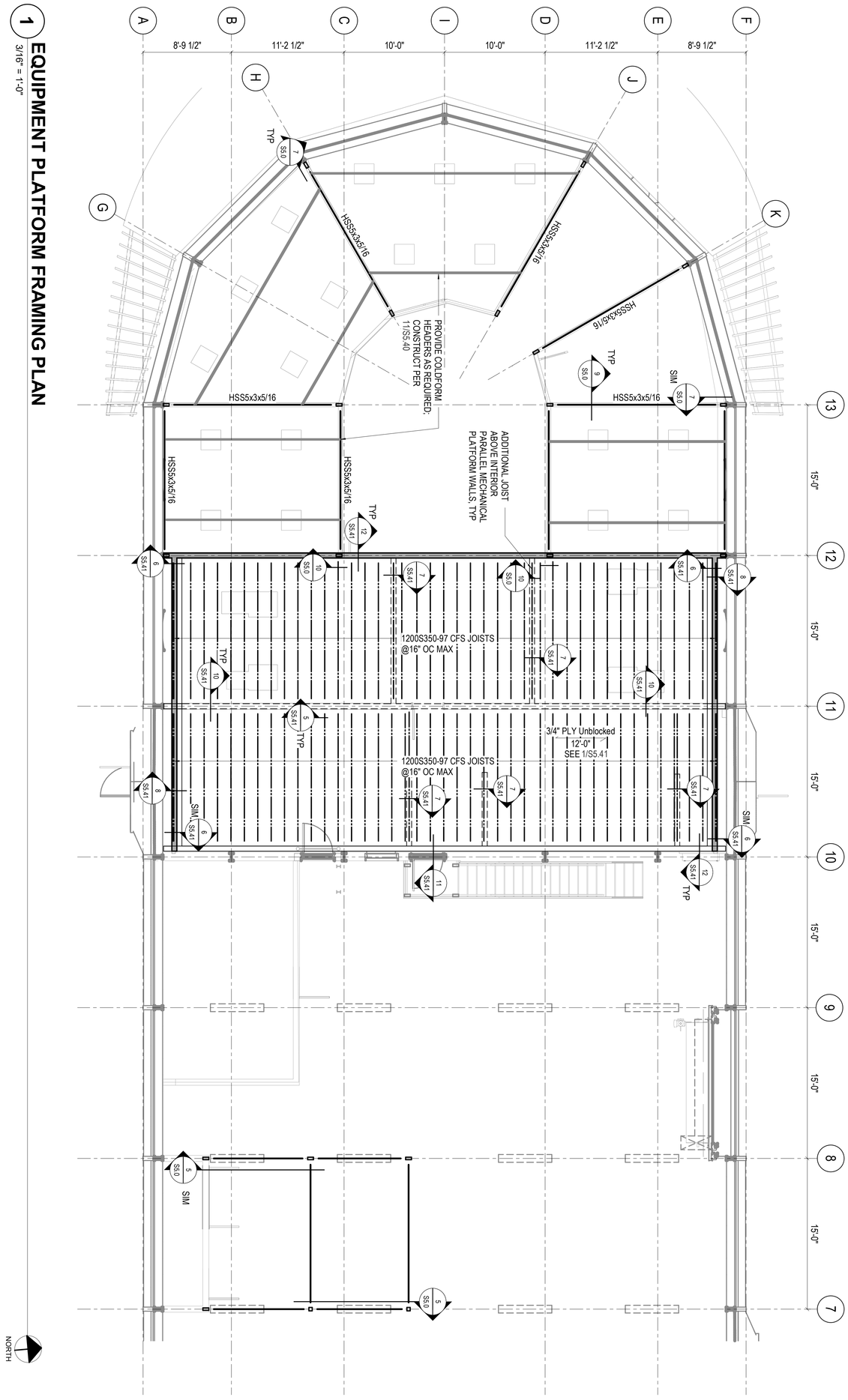
PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

1 EQUIPMENT PLATFORM FRAMING PLAN

3/16" = 1'-0"



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No. 19689
LICENSED PROFESSIONAL ENGINEER
05-08-2026

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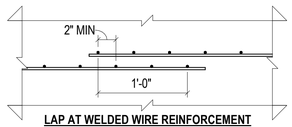
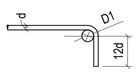
LAP SPLICE & DEVELOPMENT LENGTHS (INCHES) F'c=4,000 PSI, Fy=60,000 PSI												
	CLEAR COVER				1"	1.5"	2"+	1"	1.5"	2"+	1"	1.5"	2"+
SPACING	s≥ 6db	s< 6db	LCE	LCS	LTE			LTE TOP & LTS			LTS TOP		
BAR SIZE	LDH												
#3	6	6	8	12	12			12			15		
#4	6	9	10	15	12			15			20		
#5	8	12	12	19	17	15		23	19		29	25	
#6	10	16	15	23	24	18		31	23		40	29	
#7	13	20	17	27	38	29	25	50	37	33	65	48	43



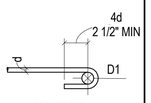
LAP AT WELDED WIRE REINFORCEMENT

STANDARD BENDS

D1	
#3 - #8	6d



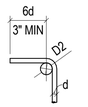
90° HOOK



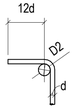
180° HOOK

STIRRUP/TIE BENDS

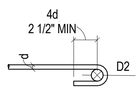
D2	
#3 - #5	4d
#6 - #8	6d



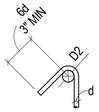
90° HOOK (#3-#5)



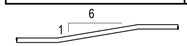
90° HOOK (#6-#8)



180° HOOK (#3-#8)



135° HOOK (#3-#8)



MAX OFFSET BEND

NOTES:
1. ALL BENDS SHALL BE MADE COLD

TYPICAL REINFORCING BENDS

REBAR COVER TABLE	
CASE	COVER (IN)
CONCRETE PLACED AGAINST EARTH	3
CONCRETE PLACED IN FORMS, EXPOSED TO WEATHER OR EARTH	2
SLABS OR WALLS NOT EXPOSED TO EARTH OR WEATHER	1

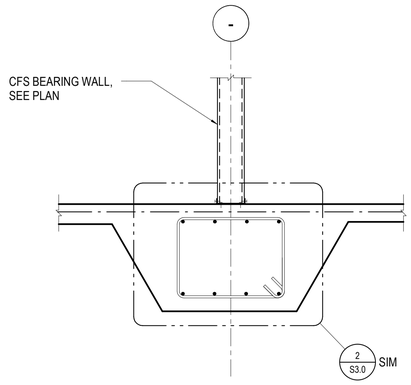
GENERAL NOTES:
1. LENGTHS SPECIFICALLY DETAILED ON DRAWINGS SHALL GOVERN IN LIEU OF LAP LENGTHS SCHEDULED
2. ABBREVIATIONS:
   A. 'LCE' = COMPRESSION EMBEDMENT LENGTH
   B. 'LCS' = COMPRESSION LAP SPLICE LENGTH
   C. 'LDH' = HOOK DEVELOPMENT LENGTH
   D. 'LTE' = TENSION EMBEDMENT LENGTH
   E. 'LTS' = TENSION LAP SPLICE LENGTH
3. 'TOP' BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12 IN OF FRESH CONCRETE IS CAST BELOW THE BAR
4. CLEAR COVER IS DEFINED FROM THE NEAREST FACE OF CONCRETE TO THE FACE OF BAR BEING DEVELOPED OR SPLICED
5. UNLESS NOTED OTHERWISE, ALL HOOK BARS SHALL EXTEND TO THE FAR FACE LESS 2" COVER
6. IF A NOTE OR DETAIL CALLS FOR A BAR TO BE EMBEDDED Ld (DEVELOPMENT LENGTH) INTO CONCRETE, THIS SHALL CORRESPOND TO A 'LTE' LENGTH
7. IF A NOTE OR DETAIL REQUIRES A BAR TO HAVE A DEVELOPMENT OR LAP LENGTH BUT INSUFFICIENT DIMENSION IS AVAILABLE FOR THE LENGTH SCHEDULED, EXTEND BAR TO FAR FACE OF CONCRETE LESS 2" COVER AND HOOK
8. CLEAR SPACING BETWEEN VERTICAL BARS IN COLUMNS, PILASTERS, AND WALL BOUNDARY ELEMENTS SHALL NOT BE LESS THAN THE LESSER OF 1.5 INCHES, 1.5xBAR DIAMETER, AND 1.33xAGGREGATE SIZE

ADJUSTMENTS TO GIVEN LENGTHS:
1. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 50%
2. IF LIGHTWEIGHT AGGREGATE IS SPECIFIED, INCREASE SCHEDULED LAP BY LENGTHS 33%
3. SCHEDULED LENGTHS ASSUME:
   A. CLEAR COVER IS AS INDICATED IN SCHEDULE, BUT NOT LESS THAN 1 BAR DIAMETER OR REQUIRED COVER FROM 'REBAR COVER TABLE'
   B. CLEAR SPACING BETWEEN BARS IS GREATER THAN 2xCLEAR COVER
   C. IF CONDITION B IS NOT MET FOR A GIVEN BAR, RECALCULATE LENGTH USING A COVER EQUAL TO ONE-HALF OF THE CLEAR BAR SPACING

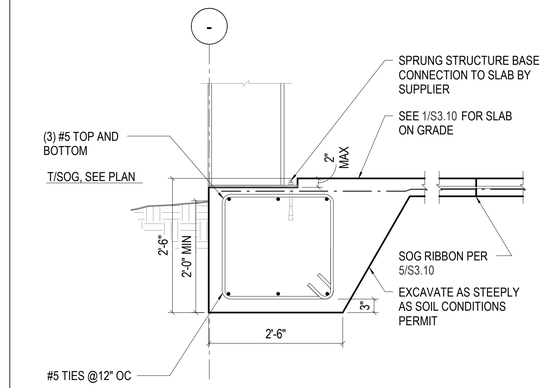
LAP SPLICE NOTES:
1. ALL SPLICES SHALL BE WIRED IN CONTACT
2. ALL SPLICES ARE 'LTS' UNLESS NOTED OTHERWISE
3. SMALLER BAR LAP LENGTH SHALL BE USED WHEN SPLICING DIFFERENT SIZED BARS
   A. COMPRESSION LAP LENGTH SHALL NOT BE LESS THAN 'LCE' OF THE LARGER BAR
   B. TENSION LAP LENGTH SHALL NOT BE LESS THAN 'LTE' OF THE LARGER BAR
4. BUNDLED BAR SPLICES:
   A. INDIVIDUAL BAR SPLICES WITHIN THE BUNDLE SHALL BE STAGGERED BY 40xBAR DIAMETER
   B. INCREASE LAP LENGTH 20% FOR A 3 BAR BUNDLE
   C. INCREASE LAP LENGTH 33% FOR A 4 BAR BUNDLE
5. TOP AND BOTTOM BEAM SPLICES SHALL BE STACKED VERTICALLY

HOOK EMBEDMENT NOTES:
1. SCHEDULED HOOK EMBEDMENT LENGTHS ASSUME:
   A. SIDE COVER IS 2 1/2 INCHES OR GREATER
   B. COVER BEYOND IS 2 INCHES OR GREATER
   C. IF EITHER A OR B IS NOT MET, INCREASE LENGTHS BY 42%
2. IF REINFORCING IS SPECIFIED AS EPOXY COATED, INCREASE SCHEDULED LENGTHS BY 20%

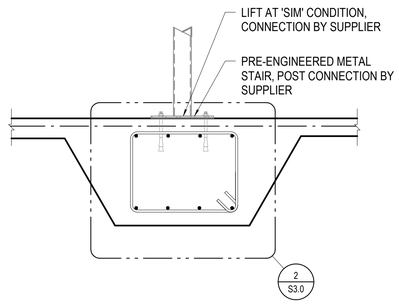
11 12" = 1'-0" REINFORCING DEVELOPMENT, PLACEMENT, AND BEND INFO



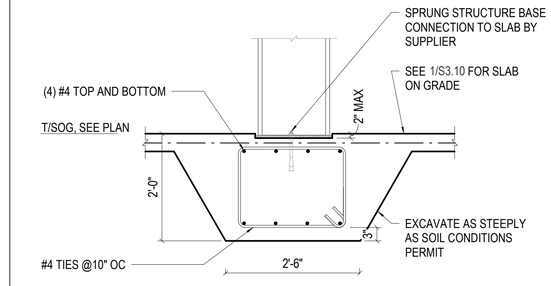
4 3/4" = 1'-0" INTERIOR CFS BEARING WALL AT SLAB POUR DOWN W/ FOOTING



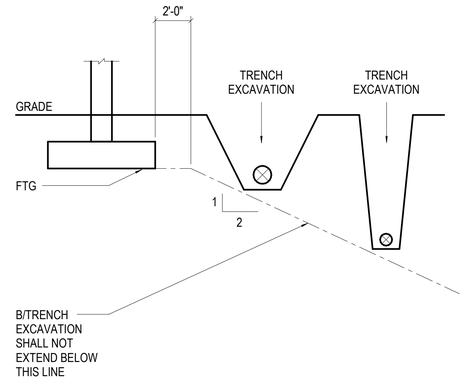
1 3/4" = 1'-0" EXTERIOR CONTINUOUS FOOTING



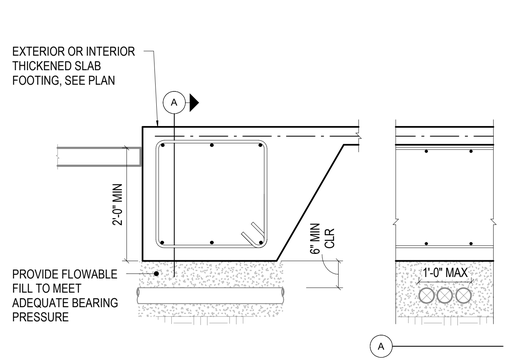
5 3/4" = 1'-0" TYP COLUMN STRIP FOOTING



2 3/4" = 1'-0" INTERIOR SPRUNG STRUCTURE FOOTING

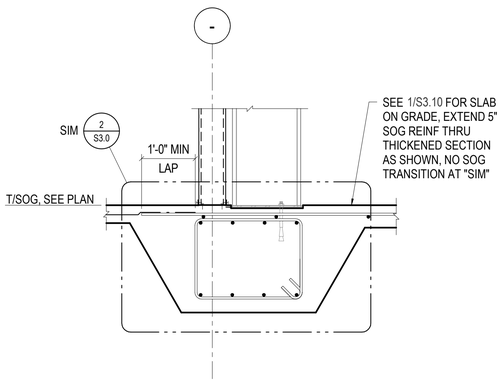


9 1/4" = 1'-0" TYP EXCAVATION AT FTG



NOTES:
1. SEE 1/S3.0 AND 2/S3.0 FOR ADDITIONAL STRIP FOOTING INFORMATION.
2. SUBMIT RFI WHERE PENETRATION DOES NOT MEET REQUIREMENTS.

6 3/4" = 1'-0" TYP UTILITY BELOW STRIP FOOTING



3 3/4" = 1'-0" INTERIOR CFS BEARING WALL AT SPRUNG WALL

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19889
BENJAMIN W DOWNEY
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FOUNDATION DETAILS

S3.0

BID SET
5/08/2026
62425

DESIGNERS: CHRISTINA ULUDAG
LEAD REVIT TECH: OLIVIA GRIMES
DATE PRINTED: 5/8/2026 11:11:00 AM
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EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

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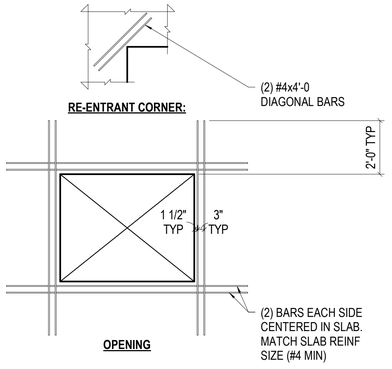
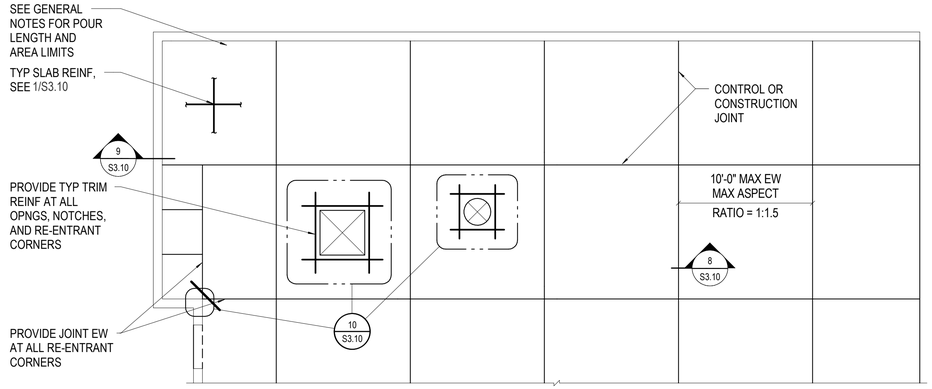


NOTES:
1. DETAIL APPLIES FOR ALL OPENINGS IN SOGS
2. REINF NOT REQUIRED AT OPENINGS SMALLER THAN 10"x10"

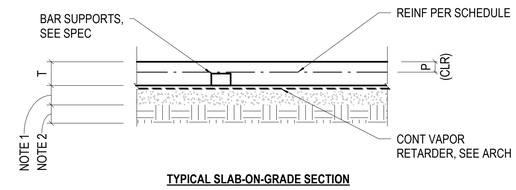
10 3/8" = 1'-0" TYP TRIM REINF



NOTES:
1. PROVIDE ADDITIONAL CONTROL JOINTS AT LOCATIONS PRONE TO CRACKING, COORD LOCS WITH FLOOR FINISHES AND INTERIOR WALLS

7 3/4" = 1'-0" TYP SOG KEY PLAN

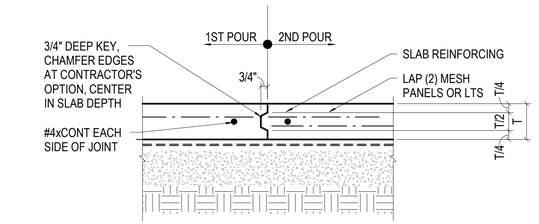
SLAB ON GRADE SCHEDULE				
TYPE	THICKNESS T	REINF	BAR POSITION, P	REMARKS
SOG4	4"	6x6-W2.1xW2.1	1 1/2"	-
SOG5	5"	#3@18" OC EW	CTRD	-



TYPICAL SLAB-ON-GRADE SECTION

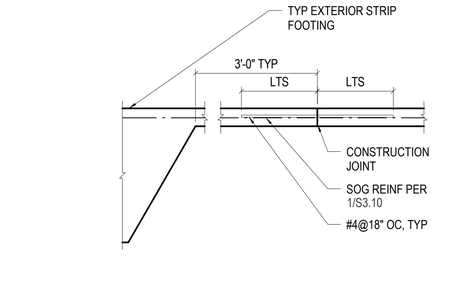
NOTES:
1. 12" MIN LOW-PLASTICITY STRUCTURAL FILL, SEE GEOTECHNICAL REPORT
2. PREPARED/COMPACTED SUBGRADE, SEE GEOTECHNICAL REPORT
3. SEE 7/S3.10 FOR ADDITIONAL SOG REQUIREMENTS

1 1" = 1'-0" TYP SOG



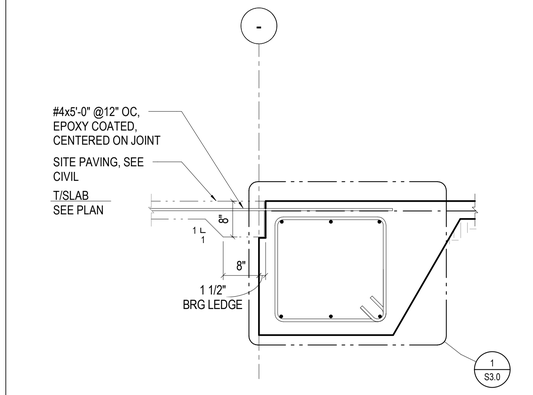
NOTES:
1. PROVIDE TOOLED JOINT OR SAW CUT AS SOON AS THE CONCRETE HAS HARDENED SUFFICIENTLY TO PERMIT CUTTING WITHOUT CHIPPING, SPALLING, OR TEARING (BUT NOT MORE THAN 12 HOURS AFTER CASTING)

8 1 1/2" = 1'-0" SLAB-ON-GRADE JOINTS, NON-INDUSTRIAL

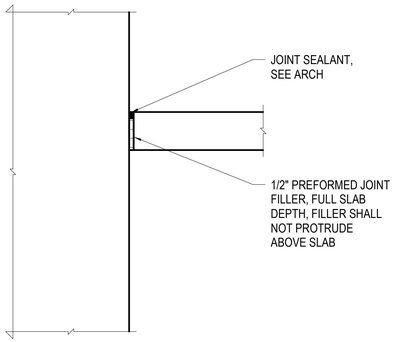


NOTES:
1. SEE 1/S3.0 AND 2/S3.0 FOR ADDITIONAL STRIP FOOTING INFORMATION.

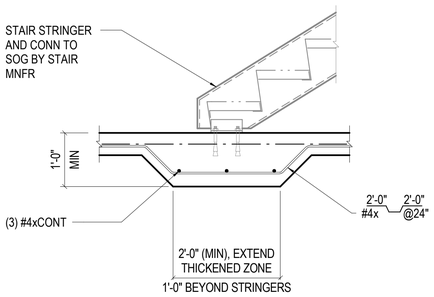
5 3/4" = 1'-0" TYP SOG RIBBON



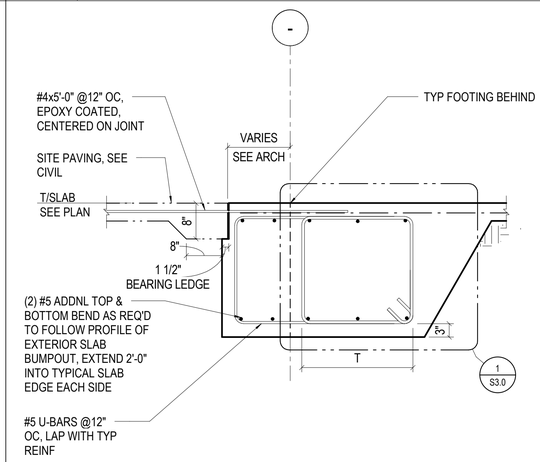
2 3/4" = 1'-0" SLAB POUR OVER AT EXTERIOR THRESHOLD



9 1 1/2" = 1'-0" TYP SOG ISOLATION JOINT



6 3/4" = 1'-0" SLAB-ON-GRADE SUPPORTING METAL PAN STAIR



3 3/4" = 1'-0" SOG AT EXTENDED THRESHOLD

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SOG DETAILS

S3.10

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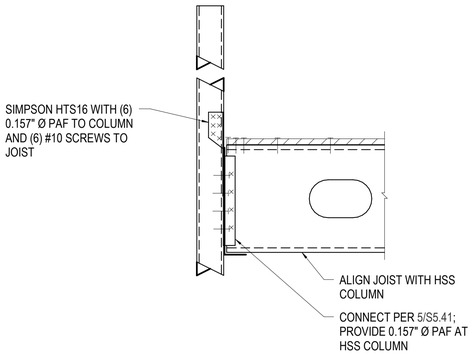
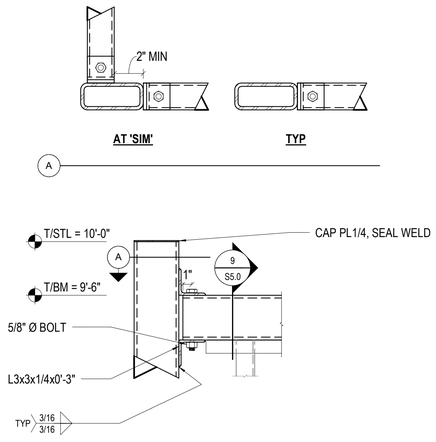
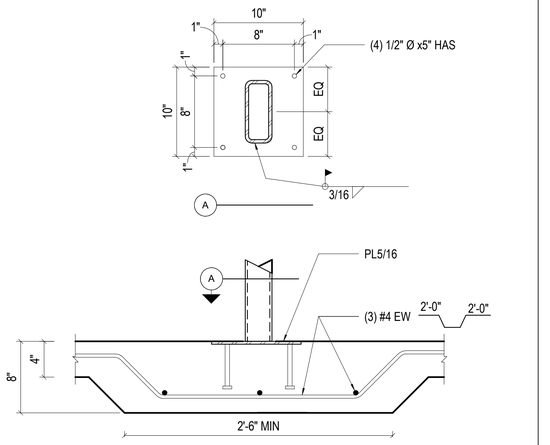


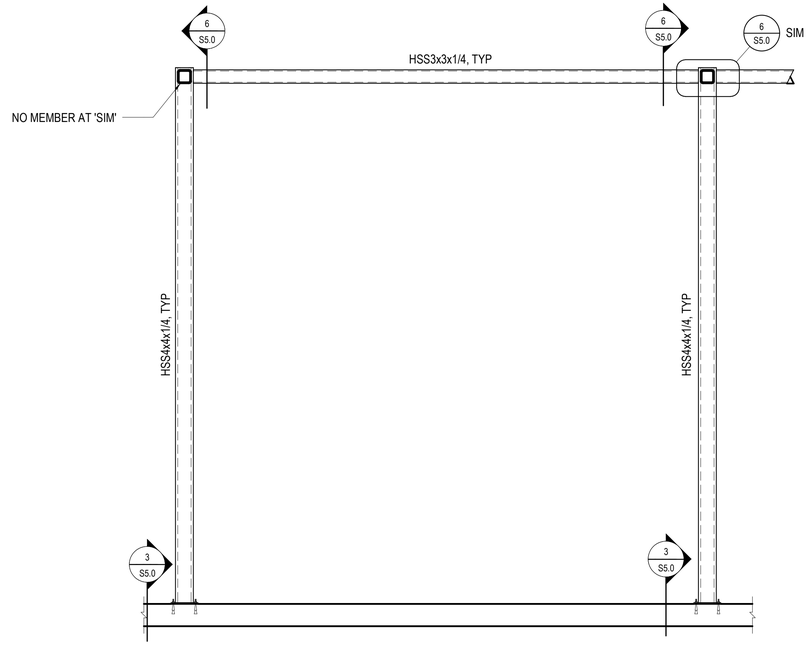
10 1 1/2" = 1'-0" HSS COLUMN AT EQUIPMENT PLATFORM



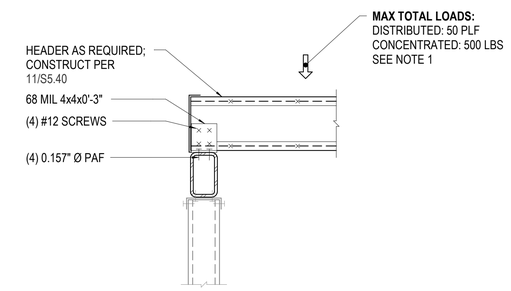
7 1 1/2" = 1'-0" BEAM TO COLUMN - ENTRY



8 1 1/2" = 1'-0" MECH SUPPORT FRAME AT THICKENED SOG

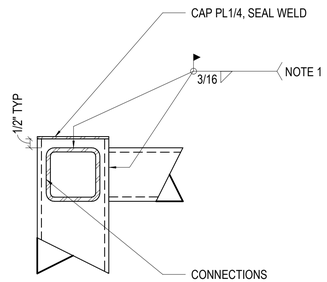


5 3/4" = 1'-0" TYP BAY - DUST COLLECTION SUPPORT FRAME



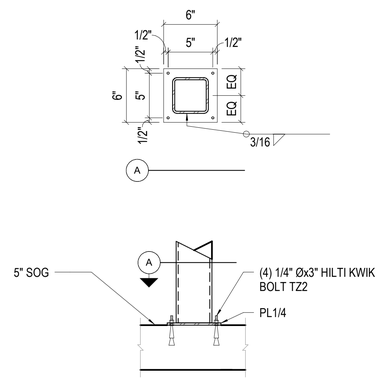
NOTES:
1. INDIVIDUAL HEADERS MAY CARRY BOTH DISTRIBUTED AND CONCENTRATED LOADING. NO MORE THAN (4) CONCENTRATED LOADS PER HEADER AND NO MORE THAN (4) HEADERS CONNECTING TO EA HSS.
2. SUBMIT LOADING PLAN TO EOR FOR REVIEW

9 1 1/2" = 1'-0" HSS HEADER SUPPORT



NOTES:
1. SHOP WELD STEEL FRAMING IN AS LARGE OF SECTIONS AS PERMITTED BY SHIPPING AND INSTALLATION CONSTRAINTS

6 3" = 1'-0" TYP BEAM TO COLUMN



3 1 1/2" = 1'-0" TYP DUST COLLECTION COLUMN TO SOG

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PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19889
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05-08-2026

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STEEL FRAME DETAILS

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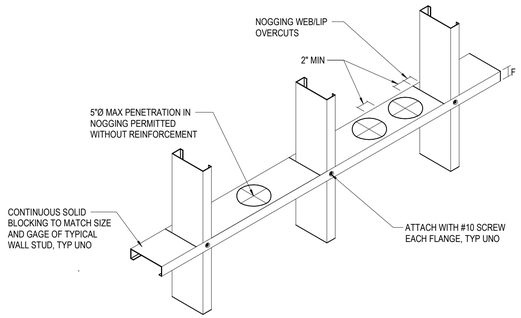
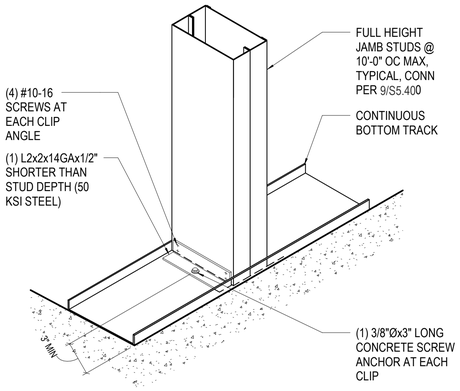
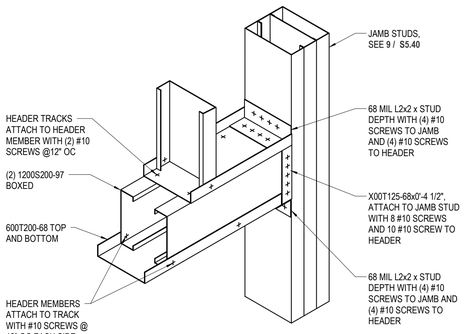


NOTES:
1. BRIDGING SPACING AS SPECIFIED ON ELEVATIONS/DETAILS
2. NOGGING WEB/LIP OVERCUT LIMITED TO (1/2xNOGGIN FLANGE WIDTH + 1/2") BEYOND FACE OF STUD

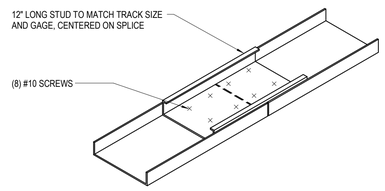
10 1" = 1'-0" TYPICAL BRIDGING AT LOAD BEARING WALLS



7 1" = 1'-0" JAMB BASE DETAIL

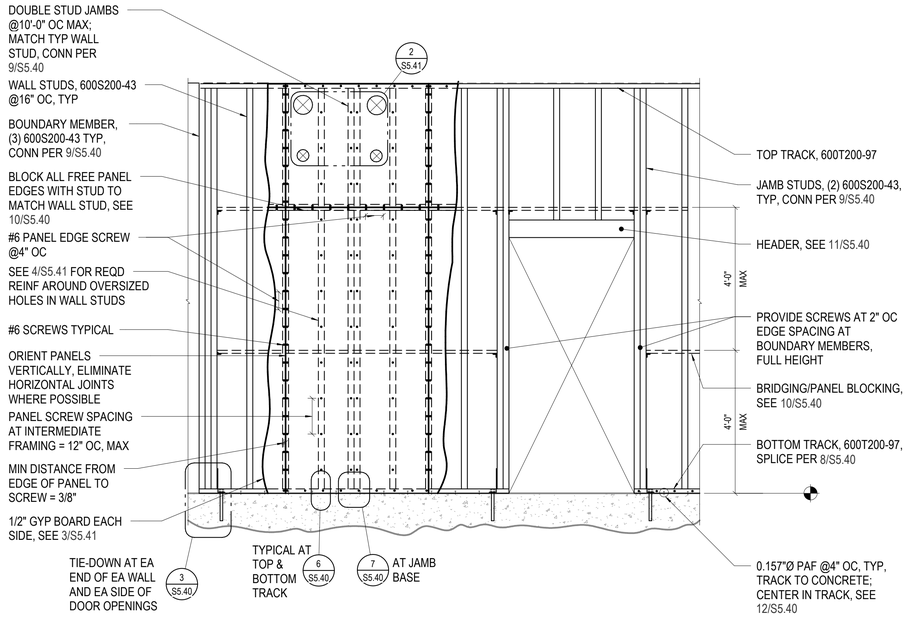


11 1 1/2" = 1'-0" TYP HEADER



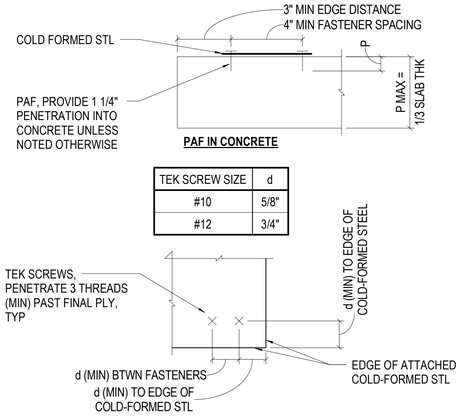
NOTES:
1. AT BOTTOM TRACK, SPLICE CENTERED BETWEEN STUDS, STUD SECTION NOT REQUIRED.
2. AT TOP DEFLECTION TRACK, SPLICE CENTERED BETWEEN STUDS, STUD SECTION NOT REQUIRED
3. AT TOP TRACK OF BYPASS WALL, SPLICE CENTERED ON STUDS OR SPLICE CENTERED BETWEEN STUD WITH STUD SECTION AS SHOWN

8 1 1/2" = 1'-0" TRACK SPLICE



NOTES:
1. FRAMING SHOWN IS REPRESENTATIVE OF POSSIBLE CONDITIONS AND IS NOT AN EXACT CONDITION, SEE ARCHITECTURAL ELEVATIONS AND PLANS FOR SPECIFIC FRAMING CONFIGURATIONS
2. ALL WALL SHOWN ON THE STRUCTURAL PLANS ARE SHEAR WALLS AND SHALL BE CONSTRUCTED PER THIS DETAIL. ALL OTHER WALLS SHALL BE CONSTRUCTED AS INTERIOR PARTITIONS, WITH SLIP CONNECTIONS AT TOP OF WALL TO UNDERSIDE OF MECHANICAL PLATFORM CONDITIONS TO PERMIT 1/2" VERTICAL DEFLECTION.

5 1/2" = 1'-0" TYP SHEAR WALL ELEVATION

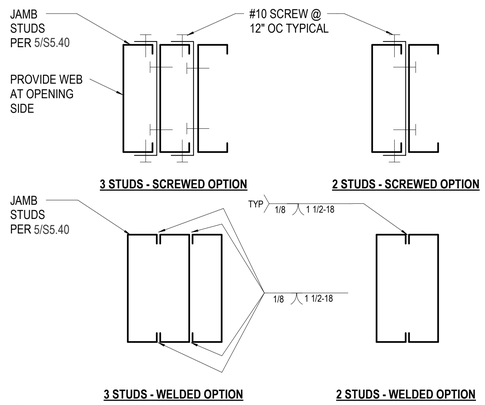


PAF IN CONCRETE

TEK SCREW SIZE	d
#10	5/8"
#12	3/4"

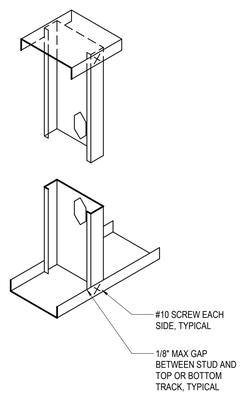
TYP SCREW PLACEMENT

12 3" = 1'-0" TYP CF LB FASTENER DETAILS

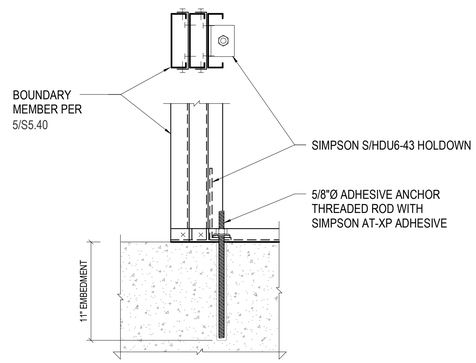


NOTES:
1. FOR SCREWS CONNECTING TRACK TO STUD, THE TOP AND BOTTOM OF EACH TRACK SHALL HAVE A REDUCED SCREW SPACING OF 3/4" OC FOR THE LENGTH OF 0'-9". IN-LIEU OF SCREWS, A 1/8" x 0'-6" LONG FILLET WELD MAY BE USED

9 3" = 1'-0" TYPICAL BUILT UP MEMBER CONSTRUCTION



6 1 1/2" = 1'-0" TYPICAL STUD TO TRACK



3 1 1/2" = 1'-0" SHEAR WALL BOUNDARY MEMBER TIE DOWN WITH 1 HD

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CF FRAMING DETAILS

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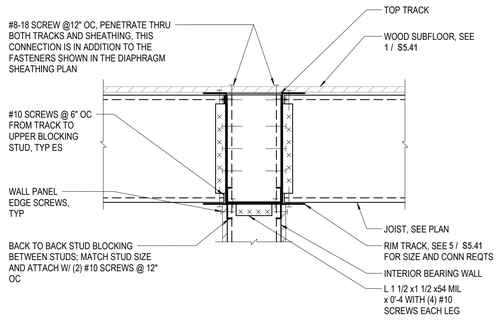
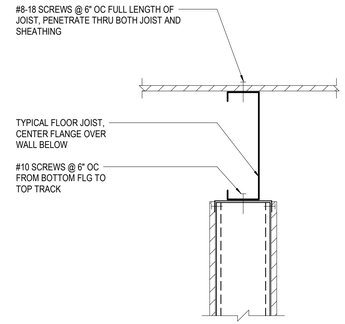
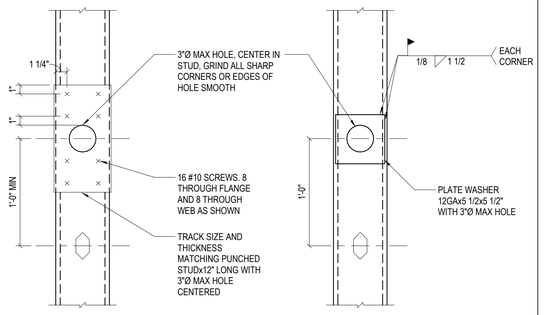


10 1 1/2" = 1'-0" LB JOIST TO WALL CONNECTION, DOUBLE SIDED

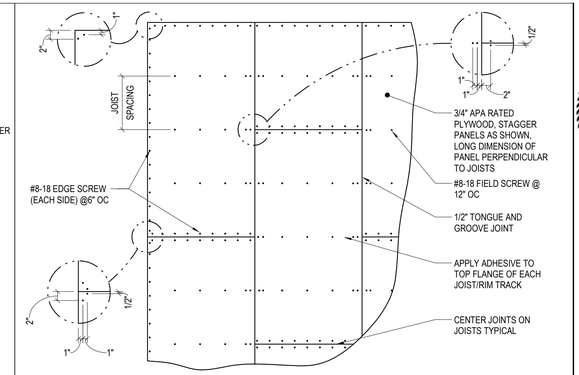


7 1 1/2" = 1'-0" ADD JOIST PARALLEL W/ WALL



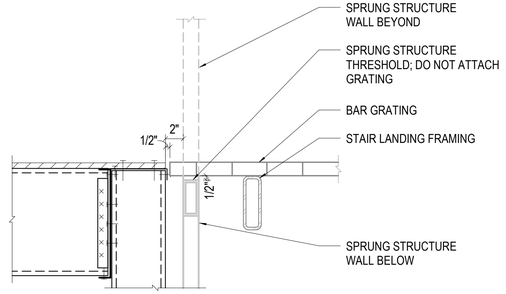
NOTES:
1. HOLES MUST BE 12" MINIMUM FROM TOP TRACK, BOTTOM TRACK, AND CONNECTIONS TO STRUCTURE
2. HOLES MUST BE 12" MINIMUM APART IN STUD

4 1 1/2" = 1'-0" TYPICAL REINFORCING FOR HOLE THROUGH WALL

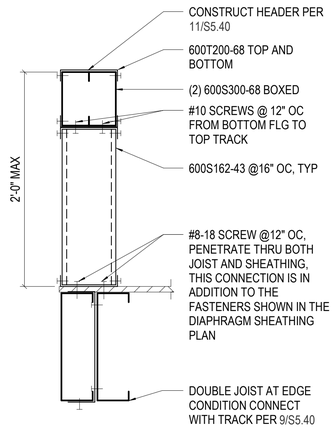


DETAIL NOTES:
1. LAYOUT SHEATHING SUCH THAT:
   A. LONG DIMENSION OF SHEATHING IS PERPENDICULAR TO SUPPORTING FRAMING (JOISTS)
   B. SHEATHING JOINTS ARE STAGGERED EACH PANEL
2. MINIMUM EDGE DISTANCE FOR SCREWS SHALL BE 3/8"
3. PROVIDE EDGE SCREWS INTO ALL SUPPORTING BEAMS, WALLS, JOISTS, BLOCKING, AND RIM TRACKS UNO

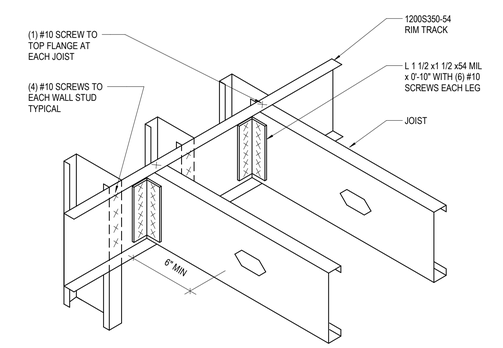
1 3/4" = 1'-0" LB DIAPHRAGM WOOD SHEATHING PLAN



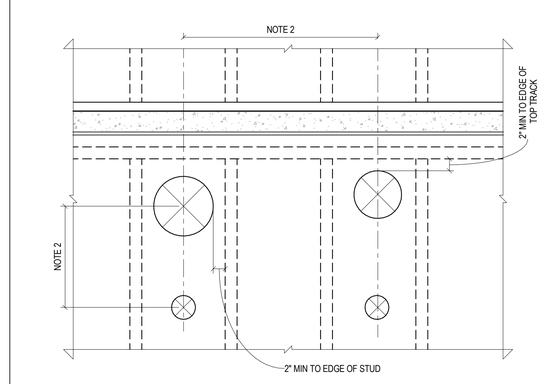
11 1 1/2" = 1'-0" LB AT THRESHOLD



8 1 1/2" = 1'-0" EDGE OF MEZZANINE

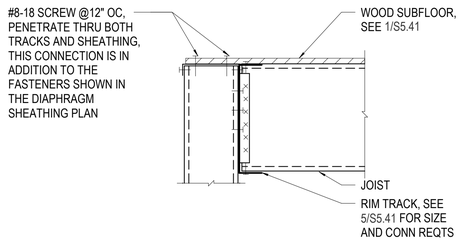


5 1 1/2" = 1'-0" LB JOIST END CONNECTION TO RIM TRACK

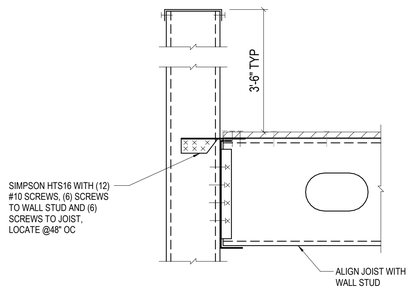


NOTES:
1. SUBMIT FOR APPROVAL DRAWINGS SHOWING COORDINATED LOCATIONS OF SHEAR WALL PENETRATIONS
2. MAXIMUM OF (2 x LARGER OPENING DIAMETER) AND (12")

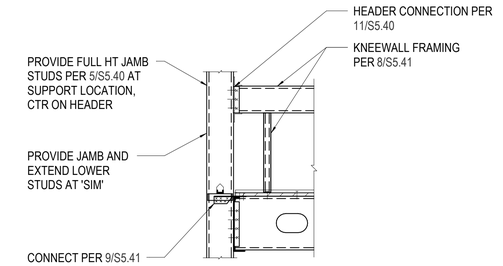
2 1" = 1'-0" SHEAR WALL PENETRATIONS



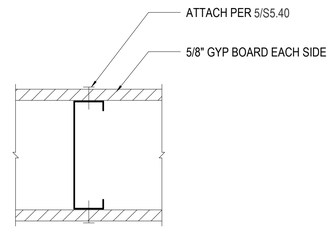
12 1 1/2" = 1'-0" LB FLOOR TO EQUIPMENT PLATFORM CONNECTION



9 1 1/2" = 1'-0" LB FLOOR TO EQUIPMENT PLATFORM PONY WALL



6 3/4" = 1'-0" KNEEWALL CONNECTION



3 3" = 1'-0" TYP WALL BUILD-UP

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
No. 19889
BENJAMIN W DOWNEY
05-08-2026

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

Owner
ROGERS FACILITIES DEPARTMENT
N. ARKANSAS ST, ROGERS, ARKANSAS, 72756

© 2026 DEMX ARCHITECTURE

CF FRAMING DETAILS

S5.41

BID SET
5/08/2026 62425

DESIGNERS: CHRISTINA ULUDAG
LEAD REVIT TECH: OLIVIA GRIMES
DATE PRINTED: 5/8/2026 11:11:01 AM
FILE PATH: Autodesk Docs://ACC-MM S2526/S.1808.S.01 - Rogers Facilities Department - S25.rvt

MM JOB #: 62425
PRINCIPAL: BEN DOWNEY
EOR: BEN DOWNEY
PROJECT MANAGER: CHRISTINA ULUDAG

5/8/2026 11:20:37 AM

ABBREVIATIONS

(AS APPLICABLE)

(E)	EXISTING
3CS	THREE-COMPARTMENT SINK
A	AMP, AMPERE
A/E	ARCHITECT / ENGINEER
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONER, AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIG INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
ATC	AUTOMATIC TEMP CONTROLS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
BWV	BACKWATER VALVE
C	COMMON
CA	COMBUSTION AIR
CD	CEILING SUPPLY AIR DIFFUSER
CD	CONDENSATE DRAIN
CF	CEILING FAN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CKT	CIRCUIT
CLG	CEILING
CO	CARBON MONOXIDE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONFIG	CONFIGURATION
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
CU	COPPER
CV	CIRCUIT VENT
CV	CONSTANT VOLUME
CWV	COMBINATION WASTE & VENT
DB	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DF	DRINKING FOUNTAIN
DH	DUCT HEATER
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DISC	DISCONNECT
DN	DOWN
DN	DOWNSPOUT NOZZLE
DOM	DOMESTIC
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY LIGHTING
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FM	FLOW METER
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPWH	FREEZE PROOF WALL HYDRANT
FS	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GI	GREASE INTERCEPTOR
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRAINS
GR	GROUND
HB	HOSE BIBB
HD	HEAD
HD	HUB DRAIN
HOA	HAND / OFF / AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HS	HAND SINK
HS	HAND SWITCH
HZ	HERTZ
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
I/O	INPUT / OUTPUT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN	INCHES
IN WC	INCHES OF WATER COLUMN
IND	INDIRECT
KV	KILOVOLT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB, #	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MHB	MIXING HOSE BIBB
MIN	MINIMUM
MLO	MAIN LUG ONLY
MM	MILLIMETER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOP SINK
MUA	MAKE-UP AIR
MZ	MULTI-ZONE
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOCIATION
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNLBD	PANELBOARD
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RAW	RETURN AIR WALL GRILLE
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
RD	RADIATION DAMPER
RD	ROOF DRAIN
REBAL	REBALANCE
RECIRC	RECIRCULATE
REF	REFERENCE
REL	RELOCATED
REQ	REQUIRED
REV	REVISION, REVISE
RG	RETURN GRILLE
RH	RADIANT HEATER
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RO	REVERSE OSMOSIS
ROD	ROOF OVERFLOW DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SAW	SUPPLY AIR WALL REGISTER
SC	SECURITY CAMERA
SC	SENSIBLE CAPACITY
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SM	SHEET METAL
SMACNA	SHEET METAL & A/C CONT NAT'L ASSOC.
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
STD	STANDARD
SZ	SINGLE-ZONE
TAB	TESTING, ADJUSTING, BALANCE
TC	TOTAL CAPACITY
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TFD	TO FLOOR DRAIN
TG	TRANSFER GRILLE
THRU	THROUGH
TMV	THERMOSTATIC MIXING VALVE
TP	TOTAL PRESSURE
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UC	UNDERCUT DOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
V	VOLT
VA	VOLT-AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATTS
w/	WITH
w/o	WITHOUT
WB	WASHER BOX
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WATER HEATER
WV	WET VENT

PLUMBING SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
—— - —— - ——	DOMESTIC COLD WATER (CW)
—— – —— – ——	DOMESTIC HOT WATER (HW)
—— - - - ——	DOMESTIC HOT WATER RETURN (HWR)
——SW——	SOFT WATER (SW)
——PWS——	PURE WATER SUPPLY (PWS)
– – – PWR – – –	PURE WATER RETURN (PWR)
——G——	NATURAL GAS (G) - LOW PRESSURE
——G#——	NATURAL GAS (G) - # PSI
——LP——	LIQUID PROPANE (LP) - LOW PRESSURE
——LP#——	LIQUID PROPANE (LP) - # PSI
——A——	COMPRESSED AIR (A)
——SS——	SANITARY SEWER (SS)
——OW——	OIL WASTE (OW)
——GW——	GREASE WASTE (GW)
——ST——	STORM DRAIN (ST)
——CD——	CONDENSATE (CD)
— —V— —	VENT (V)
—o—o—o—	PIPE: RISE / FALL / TEE DOWN
——⋈——	SHUT-OFF VALVE (SOV)
——⋈——	BALANCING VALVE (BV)
——⋈——	PRESSURE REDUCING VALVE (PRV)
——⊢Y⊣——	STRAINER w/ DRAIN VALVE
——⊢\——	CHECK VALVE
——⊢\⊣——	REDUCED PRESSURE ZONE (RPZ)
	PRESSURE GAUGE W/ INSERTION WELL
	THERMOMETER W/ INSERTION WELL
	VACUUM RELIEF VALVE
	FLOOR CLEANOUT (FCO)
	FLOOR DRAIN (FD), ROUND / RECTANGULAR
	FLOOR SINK (FS), FULL / HALF GRATE
	GAS PRESSURE REGULATOR
——⋈——	AUTOMATIC GAS VALVE
	STORM DRAIN DOWNSPOUT NOZZLE (DN)
	FREEZE PROOF WALL HYDRANT (FPWH)
	HOSE BIBB (HB)
	CLEANOUT - INLINE / WALL (CO / WCO)
	FLANGE
	UNION
	FLEXIBLE PIPE CONNECTOR
	CAPPED PIPE

ANNOTATION SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
	PLAN NOTE (PER SHEET)
XXXX	KITCHEN EQUIPMENT REFERENCE NUMBER
	POINT OF CONNECTION TO EXISTING
	TERMINATION OF DEMOLITION
~	CONTINUATION
1 / M1	DETAIL NUMBER SHEET NUMBER
1 / M1	SECTION CUT DESIGNATION

APPLICABLE CODES

2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING
2021 ARKANSAS MECHANICAL CODE (AMC)
2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
2018 ARKANSAS PLUMBING CODE (APC)
2018 ARKANSAS FUEL GAS CODE (AFGC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

ADA NOTES

THIS APPLIES TO HANDICAPPED ACCESSIBLE FIXTURES ONLY. REFER TO ARCHITECTURAL PLANS FOR PLUMBING FIXTURE ELEVATIONS.

WATER CLOSETS: THE HEIGHT OF WATER CLOSETS SHALL BE 17" TO 19" MEASURED TO THE TOP OF THE TOILET SEAT. SEATS SHALL NOT BE SPRUNG TO RETURN TO A LIFTED POSITION. THE WATER CLOSET SHALL BE LOCATED 18" FROM THE SIDE WALL TO THE CENTER LINE OF THE BOWL. HAND OPERATED FLUSH CONTROLS SHALL BE MOUNTED ON THE WIDE SIDE OF TOILET AREAS NO MORE THAN 29" ABOVE THE FINISH FLOOR. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

LAVATORIES: LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A CLEARANCE OF AT LEAST 29" ABOVE THE FINISH FLOOR TO THE BOTTOM OF THE APRON. KNEE SPACE SHALL BE 8" FROM BOTTOM EDGE OF APRON TO THE LEADING EDGE OF THE BOTTOM OF THE BOWL. THE BOTTOM OF THE BOWL SHALL BE A MINIMUM OF 27" ABOVE THE FINISH FLOOR. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

FAUCETS / SHOWER CONTROLS: CONTROLS SHALL BE LEVER HANDLES OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF.

SHOWER: A SEAT SHALL BE PROVIDED IN SHOWER STALLS 36"X36". THE SEAT SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE CONTROLS AND 17" TO 19" FROM THE BATHROOM FLOOR AND SHALL EXTEND THE FULL DEPTH OF THE STALL. SHOWER CONTROLS SHALL BE MOUNTED ON THE WALL OPPOSITE OF THE SEAT AND SHALL BE LOCATED ON THE SAME WALL AS THE SHOWER HEAD, AT MINIMUM HEIGHT OF 38" AND A MAXIMUM HEIGHT OF 48". IN ADDITION TO THE FIXED SHOWER HEAD PROVIDE A HAND HELD SHOWER SPRAY UNIT WITH A HOSE AT LEAST 60" LONG THAT CAN BE USED BOTH AS A FIXED SHOWER HEAD AND AS A HAND HELD SHOWER HEAD. IN A 30"X 60" SHOWER UNIT A FIXED SEAT SHALL BE PROVIDED. IT SHALL BE A FOLDING TYPE AND SHALL BE MOUNTED ON THE WALL ADJACENT TO THE CONTROLS. SEE ARCHITECTURAL DRAWINGS FOR GRAB BAR LOCATIONS.

SINKS: SINKS SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER 34" ABOVE THE FINISH FLOOR. PROVIDE A KNEE CLEARANCE OF AT LEAST 27" HIGH, 30" WIDE, AND 19" DEEP. SINKS SHALL BE A MAXIMUM OF 6 1/2" DEEP. ALL WATER AND DRAIN PIPING UNDER LAVATORIES SHALL BE INSULATED WITH A FOAM INSERT COVERED WITH A 1/8" VINYL OUTER SHELL. ANGLE STOPS SHALL HAVE A FLIP TOP ACCESS.

DRINKING FOUNTAINS / WATER COOLERS: WHERE ONLY ONE DRINKING FOUNTAIN IS PROVIDED ON A FLOOR THERE SHALL BE A DRINKING FOUNTAIN WHICH IS ACCESSIBLE TO INDIVIDUALS WHO USE WHEEL CHAIRS AND ONE ACCESSIBLE TO THOSE HAVING DIFFICULTY BENDING OR STOOPING. THIS CAN BE ACCOMPLISHED BY USING A "HI-LO" FOUNTAIN. LOWEST SPOUT SHALL BE NO HIGHER THAN 36" ABOVE FINISHED FLOOR AND HIGHEST SPOUT SHALL BE MOUNTED AT 40" ABOVE FINISH FLOOR. SPOUTS SHALL BE AT FRONT OF THE UNIT AND SHALL DIRECT THE WATER FLOW IN A TRAJECTORY THAT IS PARALLEL OR NEARLY PARALLEL TO THE FRONT OF THE UNIT. THE SPOUT SHALL PROVIDE A FLOW OF WATER AT LEAST 4" HIGH. CONTROLS SHALL BE FRONT MOUNTED OR SIDE MOUNTED NEAR THE FRONT EDGE. CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBF. WALL MOUNTED UNITS SHALL HAVE A CLEAR KNEE SPACE OF BETWEEN THE BOTTOM OF THE APRON AND THE FINISHED FLOOR AT LEAST 27" HIGH, 30" WIDE, AND 17" TO 19" DEEP. FOUNTAINS SHALL NOT PROTRUDE MORE THAN 4" OUT INTO WALKWAYS.

GAS PIPING NOTES

1. COORDINATE ALL DETAILS OF THE GAS PIPING SYSTEM WITH THE LOCAL GAS COMPANY. THIS INCLUDES, BUT IS NOT LIMITED TO: THE LOCATION OF THE GAS METER, GAS PRESSURE REQUIREMENTS, RELOCATION AND/OR UPSIZING OF EXISTING SERVICE PIPING IF REQUIRED. PAY ALL COSTS REQUIRED BY GAS COMPANY. CONTACT GAS COMPANY FOR SIZE AND TYPE OF PIPING AND VALVES REQUIRED FOR CONNECTION TO METER. GAS METER AND SERVICE REGULATOR TO BE PROVIDED BY UTILITY COMPANY. VERIFY CORRECT GAS PRESSURE DOWNSTREAM OF SERVICE REGULATOR AFTER GAS UTILITY COMPLETES INSTALLATION. THE NATURAL GAS DEMAND SHOWN IN MBH IS BASED ON A HEATING VALUE OF 1000 BTU (1 MBH) PER CUBIC FOOT AND A SPECIFIC GRAVITY OF 0.6. NEW GAS PIPING SIZES SHALL BE AS NOTED ON PLANS.
2. ALL WORK SHALL BE IN ACCORDANCE WITH ALL APPLICABLE LOCAL CODE AND GAS COMPANY REQUIREMENTS.
3. THE CONTRACTOR SHALL SUPPLY ALL PERMITS AND LICENSES REQUIRED FOR THE WORK, AND FOR ALL INSPECTIONS REQUIRED.
4. PROVIDE NEW GAS SERVICE PIPING FOR NEW EQUIPMENT SIZED AS INDICATED IN ACCORDANCE WITH FUEL GAS CODE FOR PRESSURE AND DEVELOPED LENGTH AS NOTED ON PLANS. CONNECT TO GAS PIPING AS SHOWN ON PLANS AND PROVIDE METER (IF REQUIRED), PRESSURE REGULATOR (SET TO EQUIPMENT DELIVERY PRESSURE, IF REQUIRED), VALVES, AND ACCESSORIES PER THE SPECIFICATIONS & LOCAL CODES.
5. PROVIDE GAS PIPING UP TO AND INCLUDING FINAL CONNECTION TO THE EQUIPMENT.
6. PROVIDE START-UP ASSISTANCE FOR ALL GAS-FIRED EQUIPMENT. COORDINATE ADJUSTMENT OF REGULATORS WITH SET-UP PERSONNEL TO ENSURE CORRECT GAS FLOW PRESSURES FOR PROPER OPERATION OF ALL EQUIPMENT.
7. ALL PIPING EXPOSED TO THE OUTDOORS OR LOCATED IN UNCONDITIONED SPACES SHALL BE PAINTED WITH TWO COATS OF ENAMEL.
8. PIPE GAS REGULATOR VENTS LOCATED INDOORS TO EXTERIOR OR PROVIDE VENT LIMITING DEVICE.

PLUMBING GENERAL NOTES

(AS APPLICABLE)

1. NOTES APPLY TO ALL PLUMBING SHEETS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
3. ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AS REQUIRED BY LOCAL AND STATE CODES.
4. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
5. ALL PLUMBING EQUIPMENT SHOWN ON THE PLUMBING PLANS SHALL BE PROVIDED BY THE PLUMBING CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.
6. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
7. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF PIPE ROUTING. EQUIPMENT SCHEDULES SHALL TAKE PRECEDENCE OVER CONFLICTING DRAWING INFORMATION. DRAWINGS SPECIFIC TO THIS DISCIPLINE DO NOT LIMIT THE RESPONSIBILITY OF WORK REQUIRED BY CONTRACT DOCUMENTS. REFER TO ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND OTHER DRAWINGS FOR COMPLETE INFORMATION. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
8. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
9. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.
10. COORDINATE THE INSTALLATION OF THE PLUMBING SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
11. THE CONTRACTOR SHALL DO ALL CUTTING OF WALLS, FLOORS, AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. NO STRUCTURAL MEMBERS MAY BE CUT OR MODIFIED WITHOUT THE WRITTEN PERMISSION OF THE STRUCTURAL ENGINEER.
12. CUTTING OF ROOF AND FLASHING OF PIPE CURBS, SANITARY VENTS THROUGH ROOF, ETC., SHALL BE COORDINATED WITH THE ROOFING CONTRACTOR, AT THIS CONTRACTOR'S EXPENSE, TO MAINTAIN THE ROOF WARRANTY.
13. THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN), THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED.
14. PLUMBING CONTRACTOR (PC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
    A. DISCONNECTS:
        - WHERE NOTE FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
        - WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY PC, INSTALLED BY EC.
15. NEW PLUMBING EQUIPMENT AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
16. COORDINATE PIPE ROUTING AWAY FROM ELECTRICAL PANELS. IF PIPE ROUTING OVER ELECTRICAL PANELS IS UNAVOIDABLE, PROVIDE DRIP CATCH PANS UNDER THE ENTIRE LENGTH OF PIPE WHERE INSTALLED ABOVE ELECTRICAL EQUIPMENT. PANS SHALL BE MANUFACTURED, FIELD, OR SHOP FABRICATED OUT OF GALVANIZED SHEET METAL COMPLYING WITH ASTM A653/A653M. END CAP AND SEAMS SHALL BE WELDED OR SOLDERED AND SHALL BE TESTED TO BE LEAK PROOF. PANS SHALL BE CONSTRUCTED SO THAT THEY ARE LARGER THAN THE DRAIN LINE SERVING.
17. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.
18. PROVIDE SLEEVE FOR ALL WATER PIPE FLOOR PENETRATIONS. MAKE SLEEVE LARGE ENOUGH FOR INSULATION. SEAL WITH MASTIC AND ENSURE OF NO WATER PENETRATIONS.
19. COORDINATE PIPING INSTALLATION WITH STRUCTURAL GRADE BEAMS, FOOTINGS, COLUMN PIERS, ETC. SLEEVE PIPING THROUGH GRADE BEAMS, FOOTINGS, ETC. WHERE REQUIRED AND AS NOTED ON PLANS.
20. COORDINATE PLUMBING CONNECTIONS EXTERIOR TO THE BUILDING WITH CIVIL AND AHJ. PROVIDE PRESSURE REDUCING VALVE AND BACKFLOW PREVENTER AS SHOWN OR REQUIRED BY AHJ. VERIFY INVERT AND SLOPE OF INCOMING SANITARY SEWER BEFORE TRENCHING. INVERT ELEVATIONS SHOWN ON THE PLUMBING PLANS ARE FOR CALCULATION PURPOSES ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ACTUAL FIELD VERIFICATION OF THE CONNECTION ELEVATION.
21. SANITARY AND STORM SEWER PIPING SHOWN IS BASED ON 1/4" PER FOOT FALL FOR ALL PIPE SMALLER THAN 3" DIAMETER AND 1/8" PER FOOT FALL FOR PIPE 3" DIAMETER AND LARGER, UNLESS NOTED OTHERWISE.
22. ALL SEWER PIPING BELOW SLAB TO BE 2" DIAMETER MINIMUM.
23. PROVIDE ACCESS PANELS TO ALL CONCEALED VALVES, CLEAN-OUTS, WATER HAMMER ARRESTORS, AND OTHER DEVICES BEHIND HARD SURFACES. LOCATE ITEMS ABOVE LAY-IN CEILINGS AND CLOSE TOGETHER WHERE POSSIBLE TO AVOID UNNECESSARY ADDITIONAL ACCESS PANELS. COORDINATE ALL ACCESS PANELS WITH ARCHITECT.
24. ALL FLOOR DRAINS SHALL HAVE MINIMUM 4" DEEP SEAL TRAPS.
25. PROVIDE TRAP GUARDS OR TRAP SEAL PRIMERS AND 1/2" COPPER TUBING CONNECTION TO ALL FLOOR DRAINS AS SHOWN OR AS REQUIRED BY AHJ. CONTRACTOR SHALL VERIFY REQUIREMENTS. PROVIDE SHUT-OFF VALVE UPSTREAM OF TRAP PRIMER VALVE. LOCATE TRAP PRIMER VALVES IN ACCESSIBLE LOCATION OR PROVIDE ACCESS PANEL. DO NOT LOCATE TRAP PRIMER VALVES OR PIPING IN PUBLIC ACCESSIBLE AREAS.
26. LOCATION OF FLOOR DRAINS IN MECHANICAL ROOMS SHALL BE COORDINATED WITH THE MECHANICAL EQUIPMENT FOR PLACEMENT. DO NOT LOCATE DRAINS UNDER THE FOOTPRINT OF THE MECHANICAL EQUIPMENT.
27. FLOOR CLEANOUTS SHALL HAVE TOPS DESIGNED FOR SPECIFIC FLOOR FINISHES (CARPET, TILE, ETC.) WHETHER SPECIFIED OR NOT. REFER TO ARCHITECTURAL SHEETS FOR FLOOR FINISHES.
28. INSTALL VTR'S AND FLUES A MINIMUM 5'-0" FROM PARAPETS OR WALLS AND 10'-0" FROM EQUIPMENT WITH OUTSIDE AIR INTAKE.
29. WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.
30. PROVIDE INSULATION ON ALL WATER PIPING ABOVE FLOOR, ROOF DRAIN BODIES, AND HORIZONTAL ROOF DRAIN PIPING.
31. INSTALL WATER PIPE ON INSIDE OF EXTERIOR WALL INSULATION TO PREVENT FREEZING.
32. VALVES SHALL BE LINE SIZE UNLESS NOTED OTHERWISE. ALL WATER SHUT-OFF VALVES SHALL BE "BALL LOCK" TYPE. PROVIDE SHUT-OFF VALVES AT EACH TERMINATION POINT OF ASSOCIATED EQUIPMENT.
33. PROVIDE WATER HAMMER ARRESTORS AS REQUIRED BY MANUFACTURER, GOOD PRACTICE, AHJ AND/OR CODE, OR MINIMUM OF ONE ARRESTOR FOR EACH FIXTURE OR BANK OF FIXTURES. WATER HAMMER ARRESTORS SHALL BE THE SAME SIZE AS PIPE INSTALLED ON, MINIMUM. AIR CHAMBERS SHALL NOT BE USED.
34. REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF PLUMBING FIXTURES.
35. PROVIDE AND INSTALL VACUUM BREAKER (WATTS 8A OR EQUAL) ON ANY THREADED EXTERIOR OR INTERIOR FAUCETS WITHOUT INTEGRAL VACUUM BREAKER.
36. PROVIDE COMPLETE FIXTURES AND INCLUDE SUPPLIES, STOPS, VALVES, FAUCETS, DRAINS, TRAPS, TAILPIECES, ESCUTCHEONS, ETC. EXPOSED COPPER OR BRASS MATERIALS SHALL BE CHROME PLATED.
37. ALL EXPOSED OR ACCESSIBLE P-TRAPS SHALL BE CHROME PLATED AND PROVIDED WITH BOTTOM CLEANOUT PLUGS.
38. PROVIDE INSULATION AT ALL EXPOSED HOT WATER & DRAIN PIPING FOR HANDICAP FIXTURES PER ANSI A117.1 AND ADA REQUIREMENTS.
39. CLEAN FAUCET AERATORS AND PIPE STRAINERS PRIOR TO TURNING BUILDING OVER TO THE OWNER.
40.

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GAS EQUIPMENT

TOTAL DEMAND: 698 MBH

MARK	MBH
FU-1	66
FU-2	88
FU-3	88
FU-4	88
RTU-1	260
RTU-2	108

ELECTRIC STORAGE WATER HEATER SCHEDULE

MARK	QTY	BASIS OF DESIGN		STORAGE (GAL)	INPUT (KW)	OUTPUT (MBH)	EWT (°F)	LWT (°F)	RECOVERY RATE (GPH)	ELECTRICAL	OPERATING WEIGHT (LB)
		MANUFACTURER	MODEL								
WH	1	A.O. SMITH	DEN-52	55	4	13.65	55	120	25.2	208/1/60, 19.2 FLA	605

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. PROVIDE EXPANSION TANK PER PLANS AND EQUIPMENT SCHEDULE.
2. REFER TO PLANS AND DETAILS FOR MOUNTING REQUIREMENTS.
3. PROVIDE ASME TEMPERATURE AND PRESSURE RELIEF VALVE.
4. PROVIDE NON-SIMULTANEOUS OPERATION. SCHEDULED INPUT IS FOR SINGLE ELEMENT.

PUMP SCHEDULE

MARK	QTY	TYPE	BASIS OF DESIGN		GPM	HEAD (FT)	ELECTRICAL	DESCRIPTION
			MANUFACTURER	MODEL				
CP	1	IN-LINE CIRCULATOR	BELL & GOSSETT	NBF-9U/LW	1	7.4	120/1/60, 41W (PLUG IN)	LEAD-FREE BRONZE BODY, WET ROTOR, 3/4" SWEATED BRONZE UNION CONNECTION. PROVIDE FLEXIBLE PLUG-IN CORD. PROVIDE HOT WATER RETURN LINE AQUASTAT AND TIME CLOCK.

PLUMBING EQUIPMENT SCHEDULE

MARK	QTY	EQUIPMENT	BASIS OF DESIGN		ELECTRICAL	DESCRIPTION
			MANUFACTURER	MODEL		
AC	1	AIR COMPRESSOR	INGERSOLL RAND	2475N7.5-P	208/3/60	80 GALLON VERTICAL TANK, INTEGRAL AFTERCOOLER, LOW-OIL LEVEL SHUTOFF SWITCH, AUTOMATIC TANK DRAIN, 24.3 CFM @ 90 psi, MAX PRESSURE: 175 PSI, SIZE: 38" x 69", WEIGHT: 611 lbs.
AD	1	AIR DRYER	BEKO	RACT 30	120/1/60	FLOW RATE: 30 SCFM, MAX INLET AIR TEMP: 160 DEGREES
ET	1	EXPANSION TANK	WATTS	PLT-12	---	FIXED BLADDER TYPE, 4.5 GALLON, PRE-CHARGE AIR PRESSURE TO MATCH DOMESTIC WATER STATIC PRESSURE PRIOR TO INSTALLING. IAPMO LISTED AND ANSI/NSF 61 CERTIFIED.

SPECIALTY PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	BASIS OF DESIGN		DESCRIPTION
		MANUFACTURER	MODEL	
FCO	FLOOR CLEANOUT	ZURN	Z1400	ADJUSTABLE FLOOR CLEANOUT, CAST IRON BODY, ABS TAPERED THREAD PLUG. IN FINISHED AREAS, PROVIDE POLISHED NICKEL-BRONZE LIGHT DUTY TOP. PROVIDE SCORIATED CAST IRON EXTRA-HEAVY-DUTY SECURED TOP WHERE LOCATED IN UNFINISHED AREAS SUCH AS MECHANICAL ROOMS OR WHERE SUBJECT TO DAMAGE.
FD-1	FLOOR DRAIN (ROUND)	ZURN	Z415-BZ1	6" ROUND "TYPE B" POLISHED NICKEL BRONZE, LIGHT-DUTY STRAINER. DURA-COATED CAST IRON BODY WITH BOTTOM OUTLET, CONCRETE SHIELD, UP TO 1" OF VERTICAL POST POUR ADJUSTMENT, COMBINATION INVERTIBLE MEMBRANE CLAMP AND ADJUSTABLE COLLAR WITH SEEPAGE SLOTS.
FD-2	FLOOR DRAIN (ROUND)	ZURN	Z511	9" ROUND TOP. DURA-COATED CAST IRON DEEP SUMP BODY WITH BOTTOM OUTLET, SEEPAGE PAN AND COMBINATION MEMBRANE FLASHING CLAMP AND FRAME FOR HEAVY-DUTY CAST IRON DEEP FLANGE GRATE. PROVIDE WITH SEDIMENT BUCKET.
FPWH	FREEZE PROOF WALL HYDRANT	ZURN	Z1320XL	NON-FREEZE, LEAD-FREE, ENCASED, ANTI-SIPHON AUTOMATIC DRAINING WITH INTEGRAL BACKFLOW PREVENTER, STAINLESS STEEL BOX AND HINGED COVER, OPERATING KEY LOCK, 3/4" MALE HOSE CONNECTION.
PRV	PRESSURE REDUCING VALVE	ZURN	500XL	BRONZE BODY WITH INTEGRAL BY-PASS CHECK VALVE. PROVIDE PRESSURE GAUGE DOWNSTREAM AND SHUT-OFF VALVES. MAXIMUM OPERATING PRESSURE OF 300 PSI. CONFORM TO ASSE 1003.
RPZ	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS	LF909M1-QT-S, 2"	LEAD FREE, STRAINER, QUARTER TURN BALL VALVES, TEST COCKS, 175 PSI WORKING PRESSURE. INSTALL DRAIN LINE WITH AIR GAP ASSEMBLY TO APPROVED RECEPTOR.
SB	SUPPLY BOX	GUY GRAY	MIB1AB	METAL POWDER COATED, WHITE, LOW LEAD, 1/4 TURN VALVE, 1/2" SWEAT CONNECTION.
TMV	THERMOSTATIC MIXING VALVE	WATTS	LFUSG-B	+/-2°F UP TO 120°F, WITH BUILT-IN CHECK VALVES, LEAD-FREE BRASS BODY, AND COPPER THERMOSTAT. ASSE 1070.
TP	TRAP PRIMER (OR TRAP GUARD)	WATTS (MIFAB)	LFTP300 (-DR) (MI-GARD)	BRASS PRIMER VALVE WITH REMOVABLE OPERATING PARTS, LEAD FREE, INTEGRAL VACUUM BREAKER, AND GASKETED ACCESS COVER. PROVIDE DISTRIBUTION UNIT WHERE REQUIRED TO SERVE MULTIPLE TRAPS. (INLINE DRAIN TRAP SEAL. UV RESISTANT ABS FRAME, SILICON RUBBER SEALING FLAPPERS, ASSE 1072 CERTIFIED.)
WB	WASHING MACHINE OUTLET BOX	GUY GRAY	B200	GALVANIZED, CENTER DRAIN, 1/2" SWEAT CONNECTIONS, 2" THREADED DRAIN FITTING.
WCO	WALL CLEANOUT	ZURN	Z1470 (Z1469)	THREADED, COUNTERSUNK, BRONZE CLEANOUT PLUG. PROVIDE STAINLESS STEEL COVER FOR FINISHED AREAS.
WHA	WATER HAMMER ARRESTOR	ZURN	1260XL	LEAD-FREE, CONFORM TO PDI WH-201, ANSI A112.26.1M, ASSE 1010. SIZE PER MANUFACTURER'S RECOMMENDATION.
YCO	YARD CLEANOUT	ZURN	Z1449 / Z1474	CAST IRON FERRULE AND PLUG, DURA-COATED CAST IRON, DOUBLE-FLANGED HOUSING, AND EXTRA HEAVY DUTY SCORIATED CAST IRON COVER WITH LIFTING DEVICE AND VANDAL-PROOF SCREWS.

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	BRANCH SIZES (MIN.)				ELECTRICAL	DESCRIPTION
		CW	HW	WASTE	VENT		
DF-1	DRINKING FOUNTAIN	1/2"	---	1-1/2"	1-1/4"	120/1/60, 6 FLA (PLUG IN)	ELKAY, MODEL LZSTL8WSSK, BI-LEVEL ADA COOLER AND BOTTLE FILLING STATION, FILTERED, 8 GPH, STAINLESS.
EW-1	EYE WASH	1/2"	1/2"	1-1/2"	1-1/4"	---	EYE WASH: GUARDIAN, MODEL G1814, WALL MOUNTED, STAINLESS STEEL BOWL, DUST COVER, CHROME PLATED BRASS STAY-OPEN VALVE. EMERGENCY MIXING VALVE: GUARDIAN, MODEL: G6020, ASSE 1071 CERTIFIED, CHECKSTOPS ON INLETS, ADJUSTABLE SETPOINT, BUILT-IN COLD WATER BYPASS, POSITIVE SHUTOFF OF HOT SUPPLY, DIAL THERMOMETER, WITH RECESSED STAINLESS STEEL CABINET. SET TO 65°F.
LV-1	LAVATORY (ADA)	1/2"	1/2"	1-1/2"	1-1/2"	---	ADA COMPLIANT LAVATORY, AMERICAN STANDARD, MODEL 0355.012 "LUCERNE", 20-1/2" x 18-1/4", WALL-HUNG, WHITE, VITREOUS CHINA, FRONT OVERFLOW, 4" CENTERS, CONCEALED ARM SUPPORT, D-SHAPED BOWL, SELF-DRAINING DECK AREA WITH COUNTOURED BACK AND SIDE SPLASH SHIELDS. FAUCET: AMERICAN STANDARD, MODEL 5502.175, 4" CENTERSET, 0.5 GPM, POLISHED CHROME FINISH, WITH WRIST BLADE HANDLES AND GRID STRAINER DRAIN. PROVIDE THERMOSTATIC MIXING VALVE (TMV) SET FOR 105°F.
MS-1	MOP SINK	1/2"	1/2"	3"	2"	---	FIAT, MODEL TSB100, TERAZZO MOP SERVICE BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS, 24" x 24" x 12", PROVIDE NO. 830AA FAUCET WITH INTEGRAL VACUUM BREAKER, NO. 832-AA HOSE AND BRACKET, NO. 1453BB FLOOR STRAINER, NO. 899-CC MOP HANGER, AND STAINLESS STEEL WALL GUARDS. LOCATE MOP HANGER BRACKET NEAR MOP SINK. COORDINATE FINAL LOCATION WITH OWNER.
MS-2	MOP SINK	1/2"	1/2"	3"	2"	---	FIAT, MODEL TSB500, TERAZZO MOP SERVICE BASIN WITH STAINLESS STEEL CAPS ON ALL CURBS, 36" x 36" x 12", PROVIDE NO. 830AA FAUCET WITH INTEGRAL VACUUM BREAKER, NO. 832-AA HOSE AND BRACKET, NO. 1453BB FLOOR STRAINER, NO. 899-CC MOP HANGER, AND STAINLESS STEEL WALL GUARDS. LOCATE MOP HANGER BRACKET NEAR MOP SINK. COORDINATE FINAL LOCATION WITH OWNER.
SH-1	SHOWER (ADA TRANSFER STALL)	1/2"	1/2"	2"	1-1/2"	---	ADA TRANSFER SHOWER STALL: AQUARIUS, MODEL G3682BF, 40.5" x 39.5" x 77", WHITE, ONE PIECE, GELCOAT FINISH, WITH STAINLESS STEEL GRAB BARS, HDPE FOLD UP SEAT, CURTAIN ROD, AND CENTER DRAIN. SHOWER TRIM KIT: AMERICAN STANDARD, MODEL TU662.221, INCLUDES SINGLE LEVER VALVE TRIM KIT, 3-FUNCTION 2.5 GPM HAND SHOWER WITH NON-POSITIVE SHUT-OFF, 59" METAL HOSE, VACUUM BREAKER, , WALL SUPPLY AND 36" SLIDE BAR. POLISHED CHROME. PROVIDE ASSE 1016 PRESSURE BALANCING VALVE WITH SCREWDRIVER STOPS.
SK-1	SINK - DOUBLE BOWL (ADA)	1/2"	1/2"	2"	1-1/2"	120/1/60, 8.1A (SWITCHED PLUG IN)	ADA COMPLIANT SINK: ELKAY, MODEL LRAD291855, DROP-IN, 18 GAUGE 304 STAINLESS STEEL, 29" x 18" x 5-1/2", EQUAL DOUBLE BOWL. FAUCET: AMERICAN STANDARD, MODEL 4932.300 "EDGEWATER", PULL-DOWN KITCHEN FAUCET, SINGLE-HOLE (LESS ESCUTCHEON PLATE), HIGH ARC, 1.5 GPM, 4 FUNCTION SPRAY, POLISHED CHROME. DISPOSAL: INSINKERATOR EVOLUTION ESSENTIAL, RESIDENTIAL DISPOSAL, 3/4 HP MOTOR WITH POWER CORD, 120/1/60, 8.1A, SWITCHED PLUG IN.
WC-1	WATER CLOSET (ADA, FLOOR MOUNTED, BOTTOM OUTLET, FLUSH VALVE, SENSOR)	1-1/4"	---	4"	2"	(BATTERY)	ADA COMPLIANT TOILET: AMERICAN STANDARD, MODEL 3461.001 "MADERA", WHITE, VITREOUS CHINA, FLOOR MOUNTED, BOTTOM OUTLET, ELONGATED BOWL, TOP SPUD, 16-1/2" RIM HEIGHT FOR ADA COMPLIANCE, 12" ROUGH-IN. FLUSH VALVE: SLOAN, MODEL G2 8111, EXPOSED, SENSOR OPERATED, BATTERY POWERED, 1.6 GPF, POLISHED CHROME. SEAT: AMERICAN STANDARD, MODEL 5901.100SS, OPEN FRONT LESS COVER, SELF-SUSTAINING HINGES.

GENERAL NOTES (ALL FIXTURES AS APPLICABLE):

1. FIXTURE AND HARDWARE PROVIDED AND INSTALLED BY PLUMBING CONTRACTOR, UNLESS NOTED OTHERWISE.
2. ADA TOILETS: MOUNT CONTROLS ON ACCESSIBLE SIDE TO COMPLY WITH ADA REQUIREMENTS. COORDINATE WITH FIXTURE SUPPLIER.
3. WALL MOUNTED FIXTURES: PROVIDE AND INSTALL APPROPRIATE CARRIER FOR FIXTURE TYPE.
4. WHERE A SINK IS LOCATED ADJACENT TO DISHWASHER (FURNISHED BY OTHERS), PROVIDE MATERIALS AND MAKE DRAIN AND SUPPLY CONNECTIONS TO DISHWASHER . PROVIDE INDEPENDENT SUPPLY STOP VALVE FOR DISHWASHER.
5. ADA SINKS AND LAVATORIES: PROVIDE INSULATION KIT (TRUEBRO E-Z SERIES "LAVGUARD") WHERE PIPING IS EXPOSED.
6. REFER TO ARCHITECTURAL PLANS FOR LEFT/RIGHT HAND ORIENTATION OF FIXTURES WHERE APPLICABLE.

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05/08/2026

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PLUMBING SCHEDULES

P1.0

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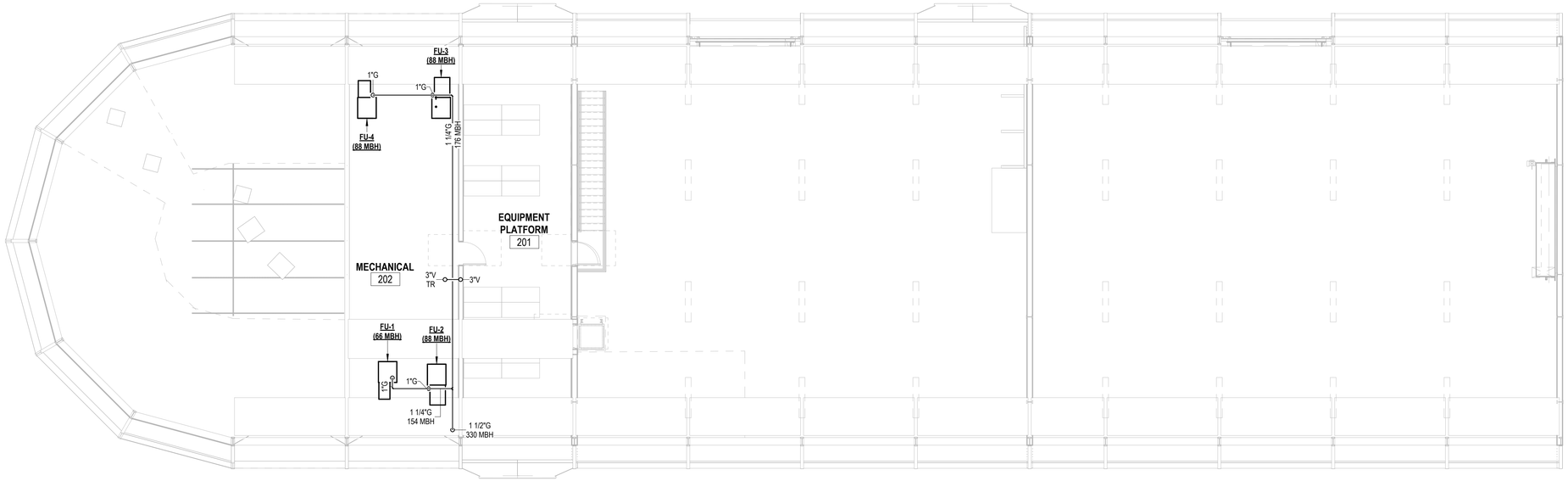
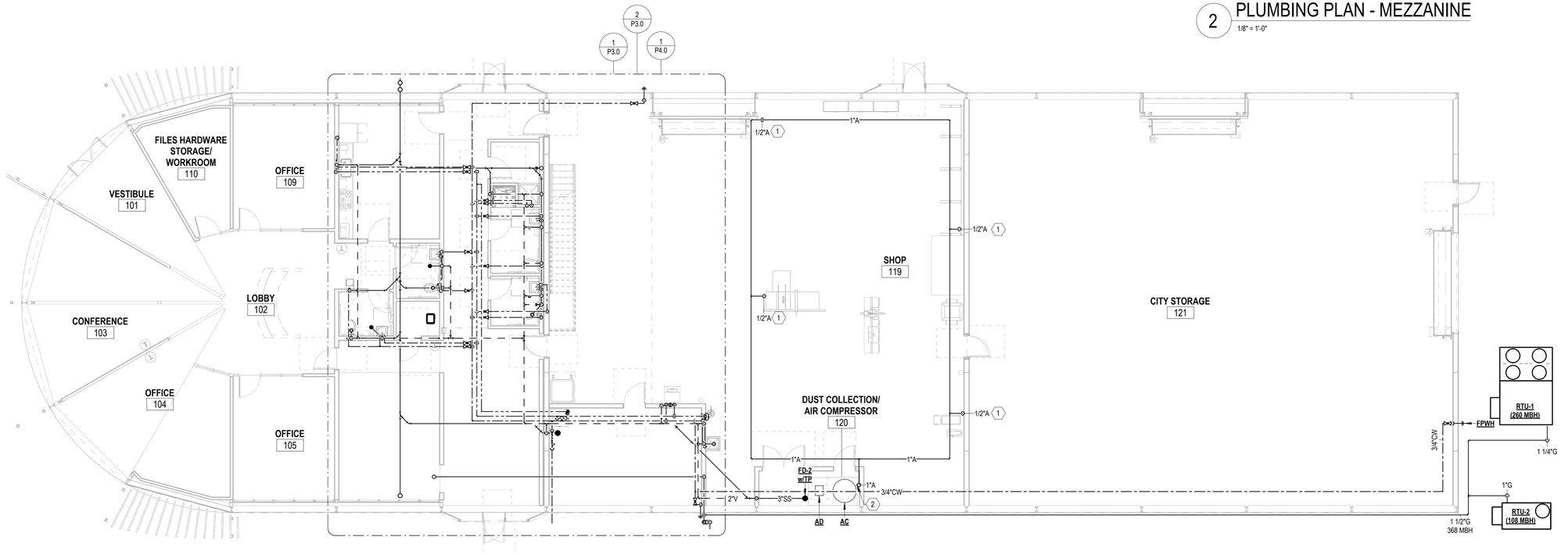
KEYNOTES:

1 COMPRESSED AIR LINE ROUTED DOWN TO QUICK DISCONNECT. COORDINATE LOCATION AND SIZE WITH OWNER BEFORE INSTALLATION.

2 CONNECT AIR LINE TO AIR COMPRESSOR PER DETAIL.



2 PLUMBING PLAN - MEZZANINE
1/8" = 1'-0"



1 PLUMBING PLAN
1/8" = 1'-0"

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PLUMBING PLANS

P2.0

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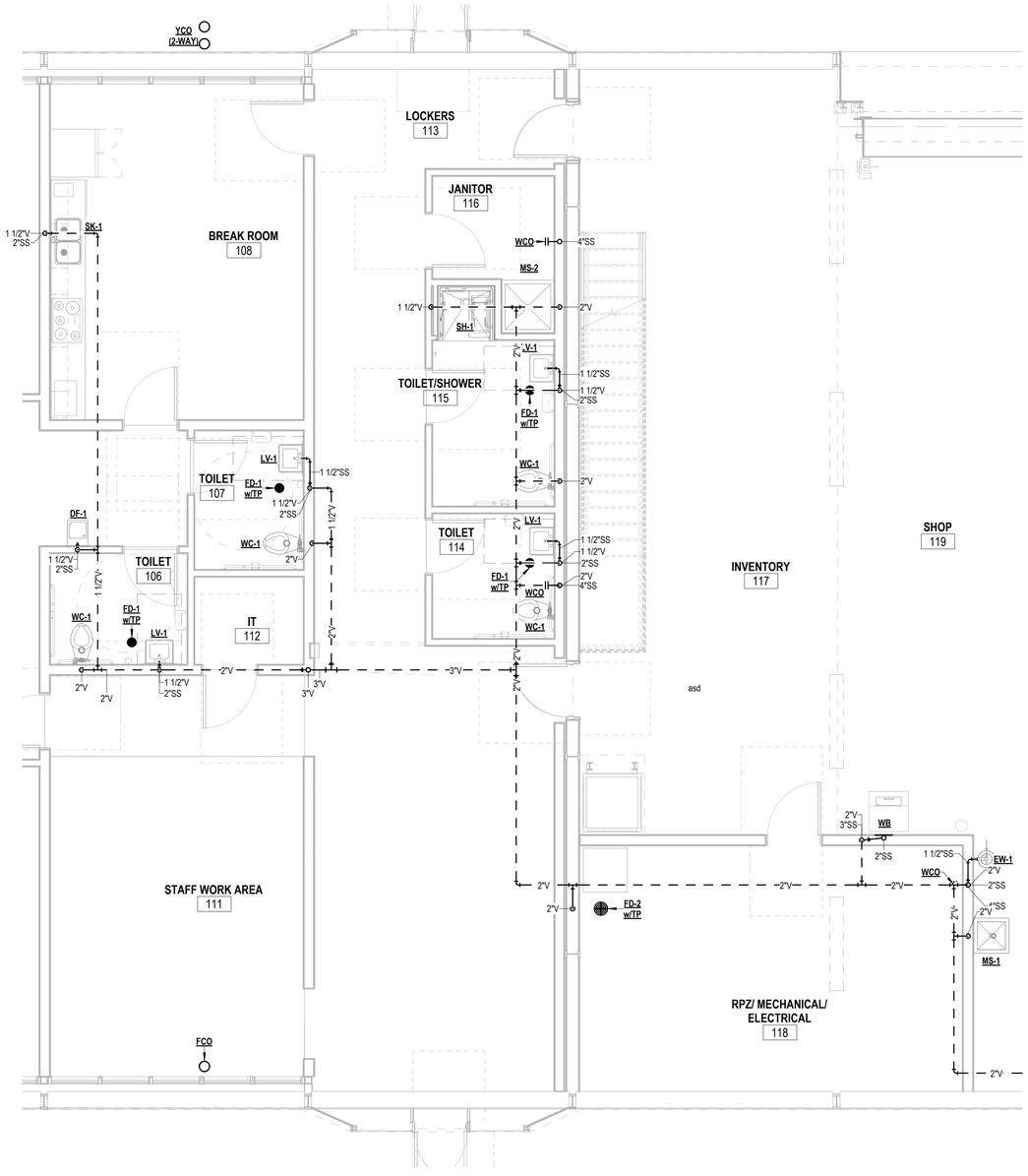
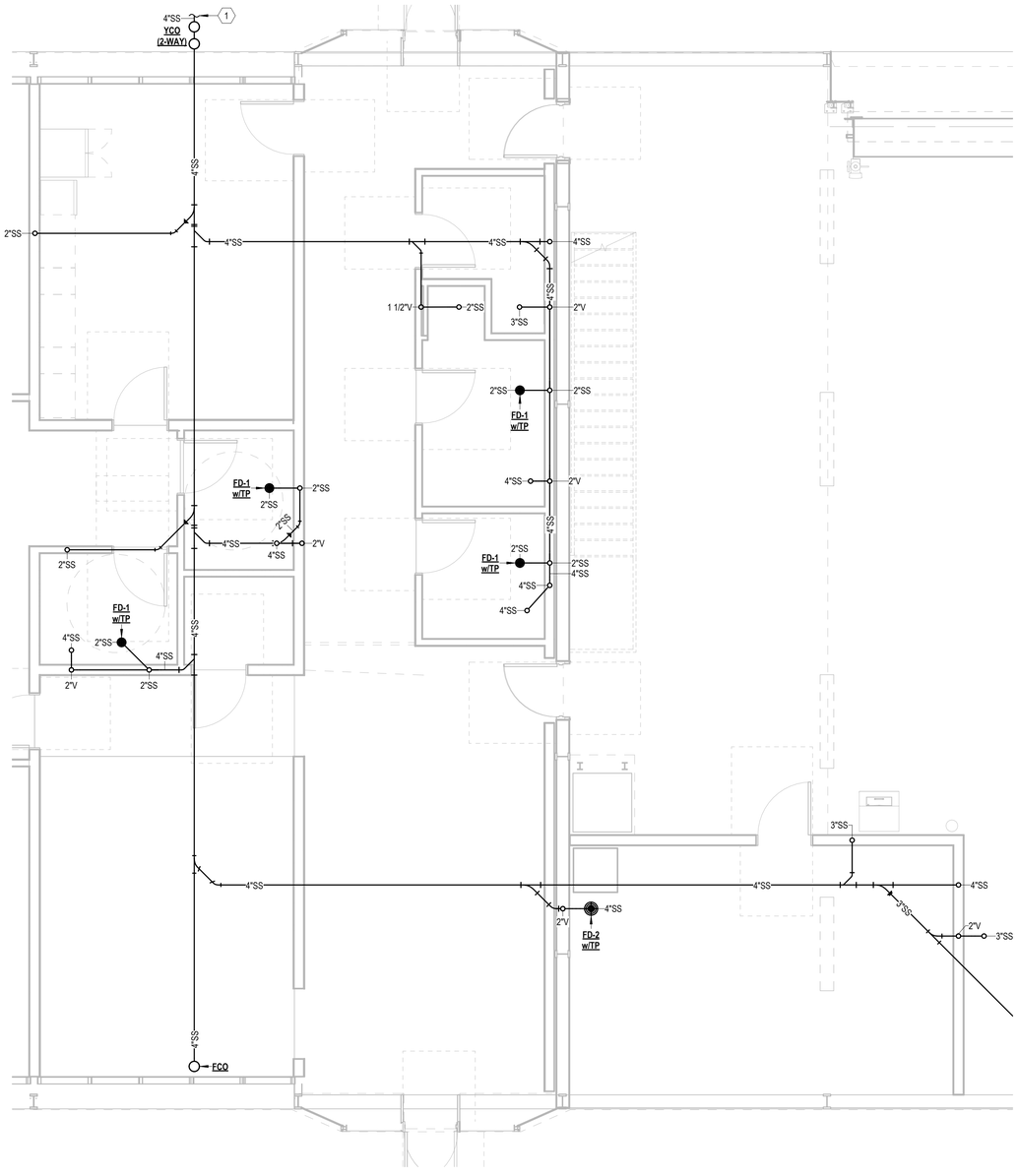
KEYNOTES:

1 REFER TO CIVIL FOR CONTINUATION. MINIMUM 1/8" PER FOOT SLOPE. DESIGN DEMAND: 35 DFU



2 DWV ENLARGED PLAN
1/4" = 1'-0"



1 DWV ENLARGED PLAN - BELOW SLAB
1/4" = 1'-0"

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#25078

CERTIFICATE OF AUTHORIZATION — PRIGM ENGINEERING, PLLC — No. 3588 — ARKANSAS

STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK NOWREY

05/08/2026

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DWV ENLARGED PLANS

P3.0

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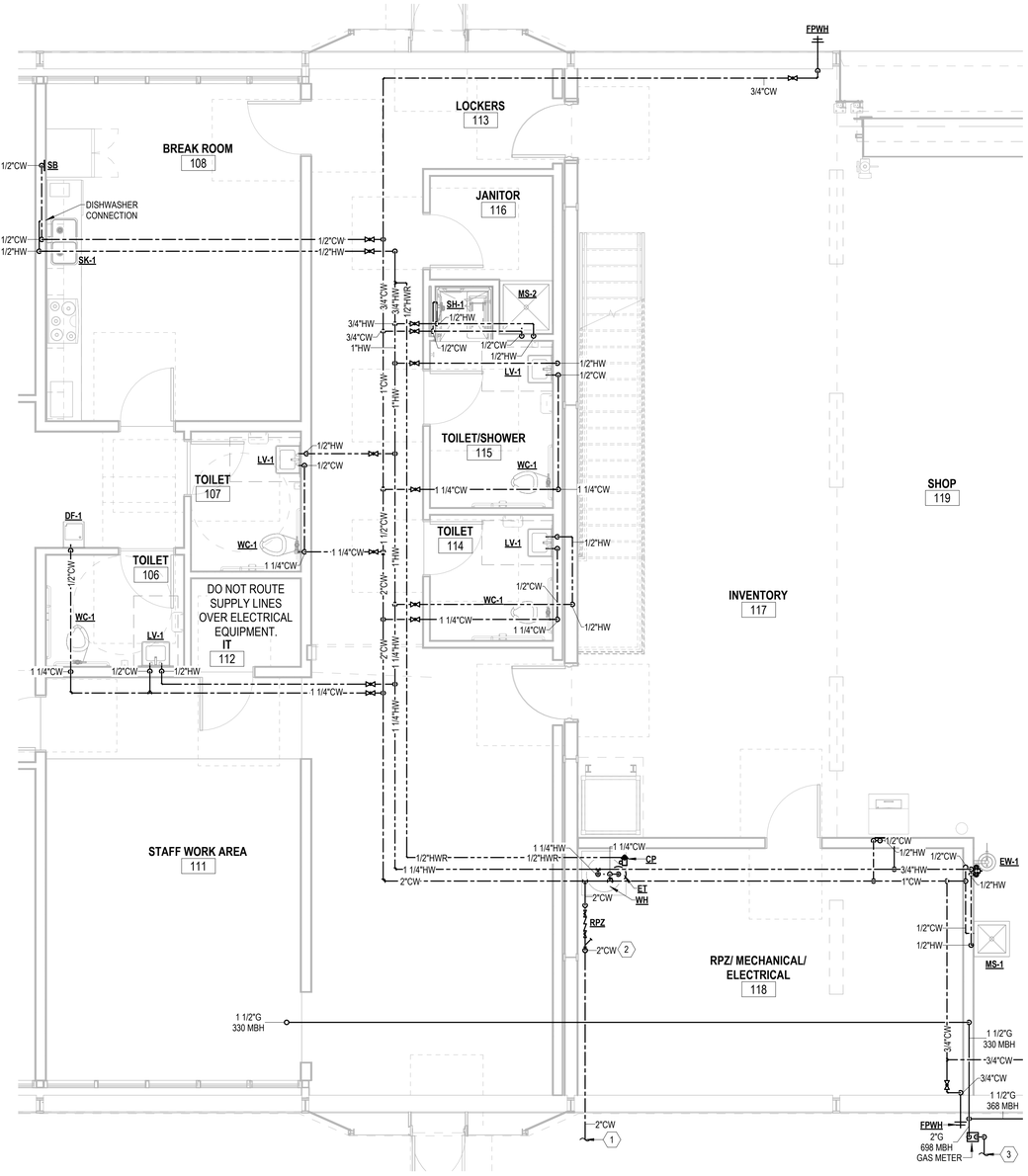
KEYNOTES:

1 INCOMING DOMESTIC WATER SERVICE. REFER TO CIVIL FOR CONTINUATION
ANTICIPATED PEAK DEMAND: 64 GPM
2 DOMESTIC WATER SERVICE UP THRU SLAB WITH MAIN SHUT OFF VALVE
3 GAS SERVICE AND METER PER GAS UTILITY COMPANY REQUIRE
SIZED FOR MAXIMUM 0.5" W.C. PRESSURE DROP PER 2018 IFGC (MOST RECENT)
ANTICIPATED DEMAND: 698 MBH @ 175'



1 SUPPLY ENLARGED PLAN
1/4" = 1'-0"

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LICENSED PROFESSIONAL ENGINEER
JASON PATRICK MOORE
No. 14988

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SUPPLY ENLARGED PLANS

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1 DWV ISOMETRIC

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No. 14988
JASON PATRICK HOVREN

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PLUMBING ISOMETRIC

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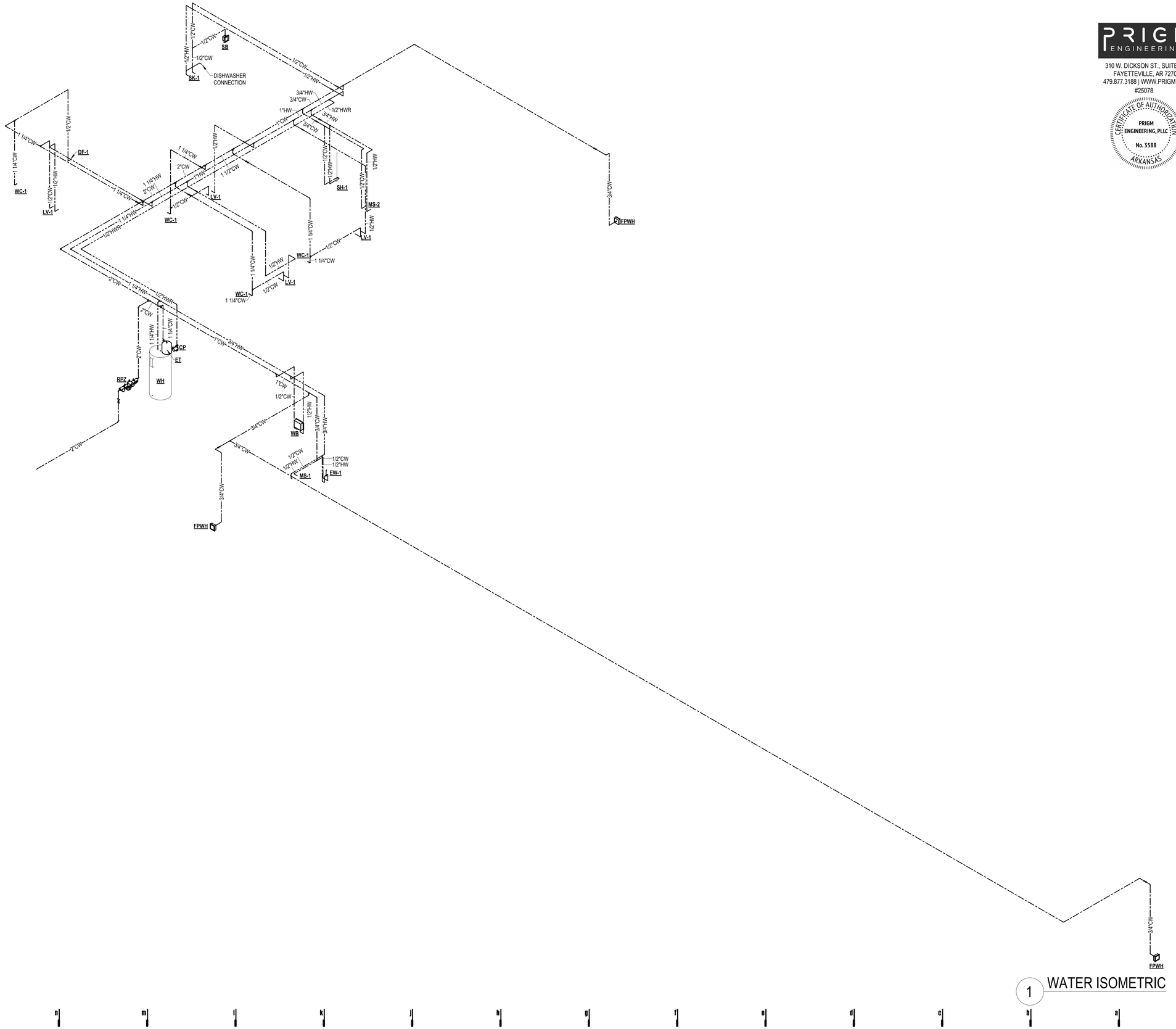

1 WATER ISOMETRIC

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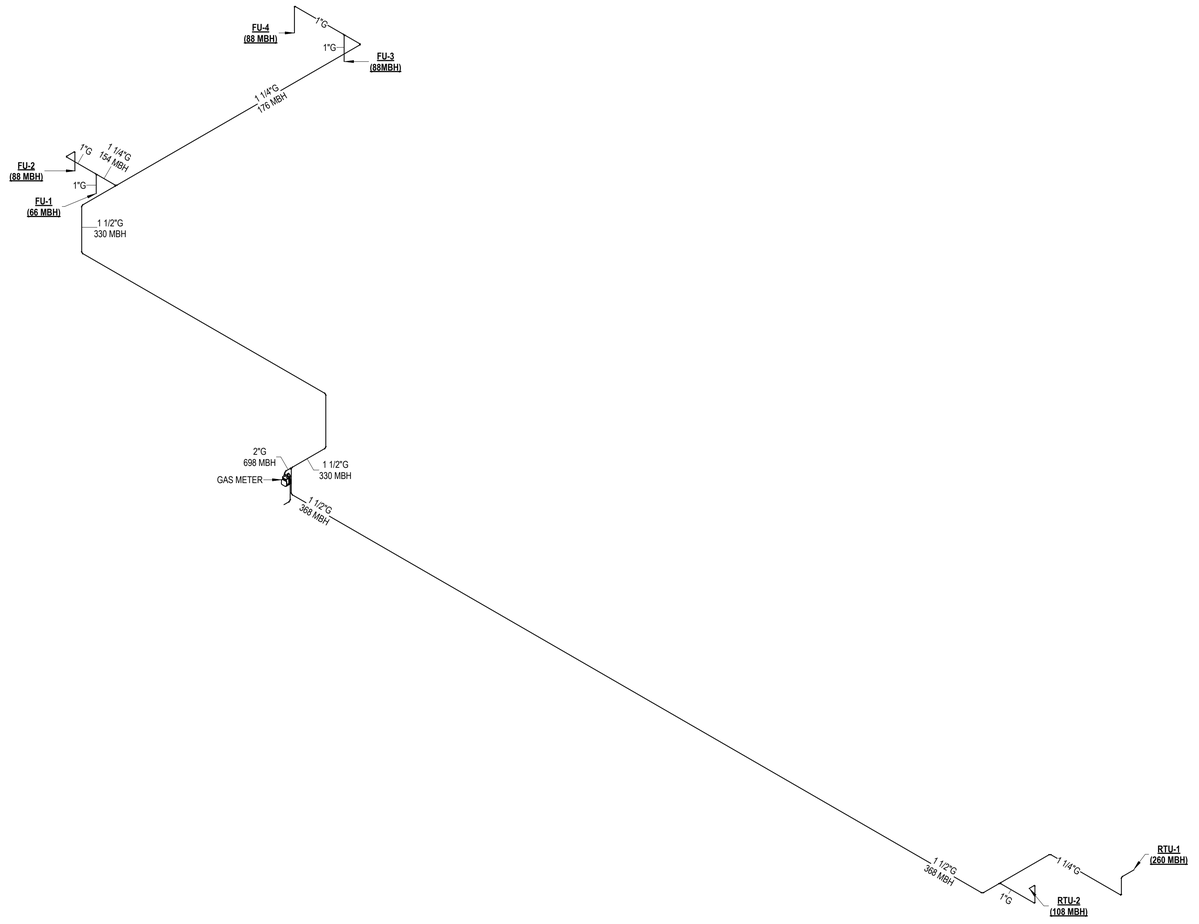

1 GAS ISOMETRIC

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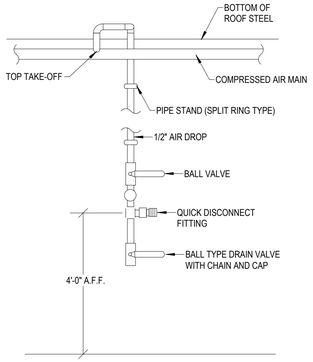
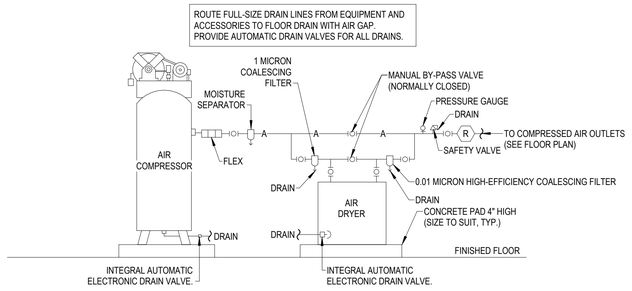
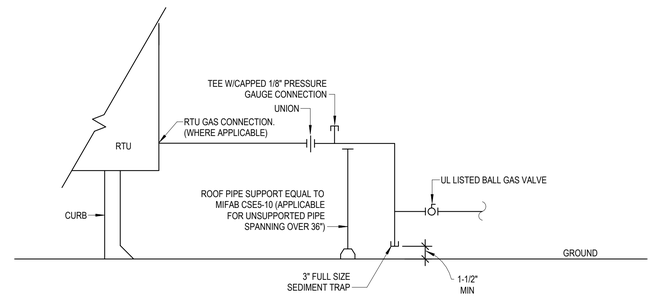


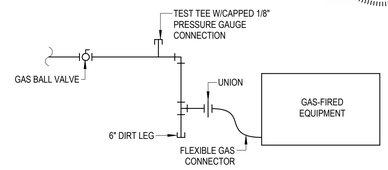
13 AIR COMPRESSOR DROP
SCALE: NTS



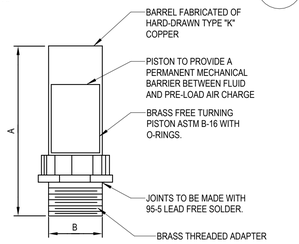
12 AIR COMPRESSOR AND DRYER
SCALE: NTS



11 GROUND RTU GAS CONNECTION/SUPPORT
SCALE: NTS



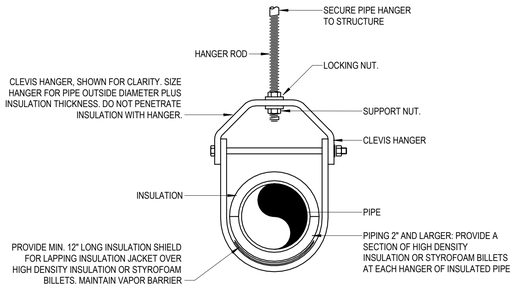
10 GAS EQUIPMENT CONNECTION
SCALE: NTS



PPP SIZE	P.D.I. SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

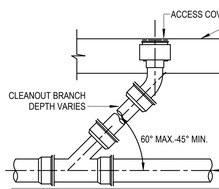
LOCATE ARRESTORS IN AN ACCESSIBLE LOCATION. PROVIDE ARRESTORS AS INDICATED PER SCHEDULE. ARRESTORS SHALL BE SAME SIZE AS PIPE INSTALLED ON, MINIMUM.

9 WATER HAMMER ARRESTOR
SCALE: NTS



REFER TO SPECIFICATIONS FOR INSULATION TYPES, INSULATION THICKNESSES, HANGER TYPES, HANGER ROD CONNECTIONS TO STRUCTURE, AND HANGER SPACING.

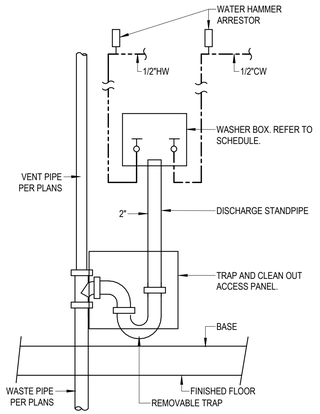
8 INSULATED PIPE HANGER
SCALE: NTS



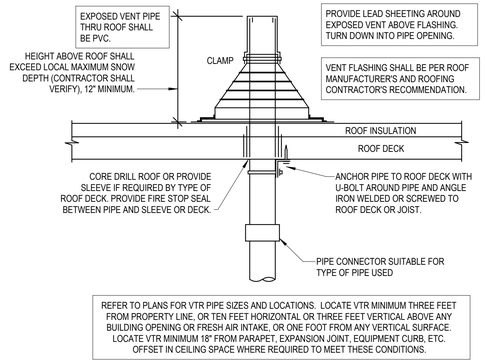
FLOOR CLEANOUT SHOWN. CLEANOUT AT GRADE SIMILAR EXCEPT PROVIDE 12"X12"X6" CONC. BLOCK AT GRADE.

NOTE:
PROVIDE EXTRA HEAVY POLISHED BRONZE OR NICKEL BRONZE ACCESS COVER, FINISHED AREAS ONLY. CAST IRON IN UNFINISHED AREAS.

7 FLOOR CLEANOUT
SCALE: NTS

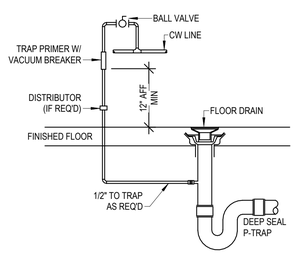


6 WASHER BOX
SCALE: NTS

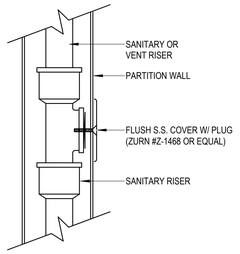


REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

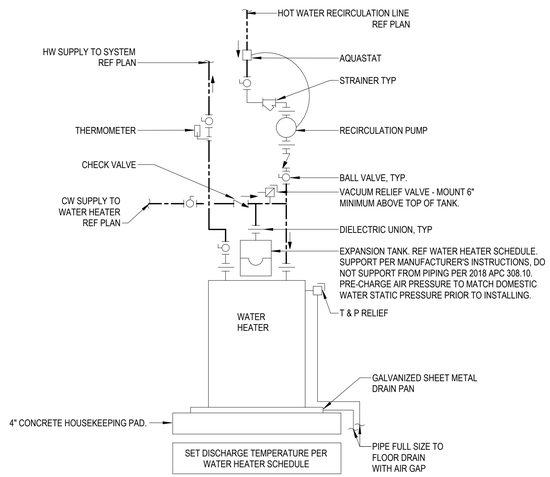
5 VENT THRU ROOF
SCALE: NTS



4 FLOOR DRAIN w/ TRAP PRIMER
SCALE: NTS

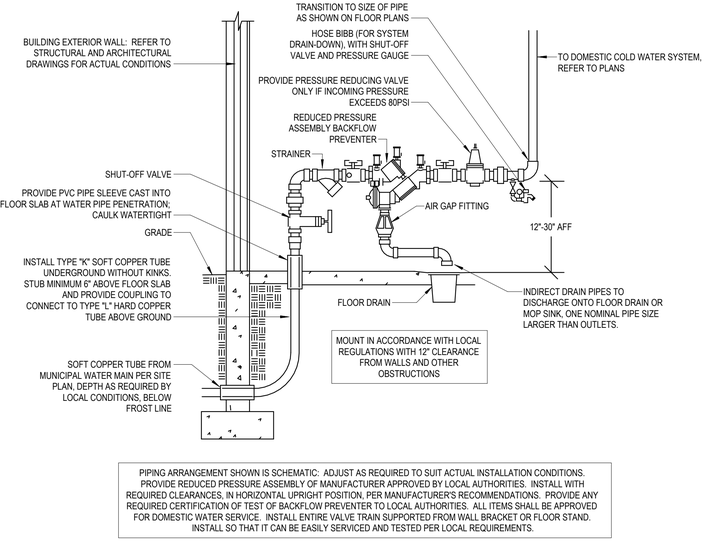


3 WALL CLEANOUT
SCALE: NTS



SET DISCHARGE TEMPERATURE PER WATER HEATER SCHEDULE

2 ELECTRIC WATER HEATER WITH RECIRCULATION PUMP
SCALE: NTS



MOUNT IN ACCORDANCE WITH LOCAL REGULATIONS WITH 12" CLEARANCE FROM WALLS AND OTHER OBSTRUCTIONS

PIPING ARRANGEMENT SHOWN IS SCHEMATIC: ADJUST AS REQUIRED TO SUIT ACTUAL INSTALLATION CONDITIONS. PROVIDE REDUCED PRESSURE ASSEMBLY OF MANUFACTURER APPROVED BY LOCAL AUTHORITIES. INSTALL WITH REQUIRED CLEARANCES, IN HORIZONTAL UPRIGHT POSITION, PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE ANY REQUIRED CERTIFICATION OF TEST OF BACKFLOW PREVENTER TO LOCAL AUTHORITIES. ALL ITEMS SHALL BE APPROVED FOR DOMESTIC WATER SERVICE. INSTALL ENTIRE VALVE TRAIN SUPPORTED FROM WALL BRACKET OR FLOOR STAND. INSTALL SO THAT IT CAN BE EASILY SERVICED AND TESTED PER LOCAL REQUIREMENTS.

1 DOMESTIC WATER SERVICE ENTRY
SCALE: NTS

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05/08/2026

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PLUMBING DETAILS

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ABBREVIATIONS

(AS APPLICABLE)

(E)	EXISTING
3CS	THREE-COMPARTMENT SINK
A	AMP, AMPERE
A/E	ARCHITECT / ENGINEER
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AC	AIR CONDITIONER, AIR CONDITIONING
AD	ACCESS DOOR
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFMD	AIR FLOW MEASURING DEVICE
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
ANSI	AMERICAN NAT'L STANDARDS INSTITUTE
AL	ALUMINUM
AP	ACCESS PANEL
ARCH	ARCHITECT, ARCHITECTURAL
ARI	AIR CONDITIONING & REFRIG INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION, & AIR CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY OF TESTING & MATERIALS
ATC	AUTOMATIC TEMP CONTROLS
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
AWS	AMERICAN WELDING SOCIETY
AWWA	AMERICAN WATER WORKS ASSOCIATION
BAS	BUILDING AUTOMATION SYSTEM
BDD	BACKDRAFT DAMPER
BFF	BELOW FINISHED FLOOR
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BT	BATHTUB
BTU	BRITISH THERMAL UNIT
BTUH	BTU PER HOUR
BV	BALANCING VALVE
BWV	BACKWATER VALVE
C	COMMON
CA	COMBUSTION AIR
CD	CEILING SUPPLY AIR DIFFUSER
CD	CONDENSATE DRAIN
CF	CEILING FAN
CF	CUBIC FEET
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
CKT	CIRCUIT
CLG	CEILING
CO	CARBON MONOXIDE
CO	CLEANOUT
CO2	CARBON DIOXIDE
CONFIG	CONFIGURATION
COP	COEFFICIENT OF PERFORMANCE
CU	CONDENSING UNIT
CU	COPPER
CV	CIRCUIT VENT
CV	CONSTANT VOLUME
CWV	COMBINATION WASTE & VENT
DB	DRY-BULB TEMPERATURE
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DF	DRINKING FOUNTAIN
DH	DUCT HEATER
DI	DEIONIZED WATER
DIA, ø	DIAMETER
DISC	DISCONNECT
DN	DOWN
DN	DOWNSPOUT NOZZLE
DOM	DOMESTIC
DP	DEW POINT
DPS	DIFFERENTIAL PRESSURE SENSOR
DWG	DRAWING
DX	DIRECT EXPANSION
EA	EACH
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EC	ELECTRICAL CONTRACTOR
EER	ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
ELEC	ELECTRICAL
EM	EMERGENCY LIGHTING
ENT	ENTERING
EQUIP	EQUIPMENT
ESP	EXTERNAL STATIC PRESSURE
ETR	EXISTING TO REMAIN
EW	EYE WASH
EWC	ELECTRIC WATER COOLER
EWT	ENTERING WATER TEMPERATURE
F	FAHRENHEIT
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FLOOR DRAIN
FD	FIRE DAMPER
FDC	FIRE DEPARTMENT CONNECTION
FFE	FINISHED FLOOR ELEVATION
FLA	FULL LOAD AMPS
FM	FLOW METER
FP	FIRE PROTECTION
FPC	FIRE PROTECTION CONTRACTOR
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FPWH	FREEZE PROOF WALL HYDRANT
FS	FLOOR SINK
FS	FLOW SWITCH
FT	FEET
GA	GAUGE
GAL	GALLONS
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GI	GREASE INTERCEPTOR
GPD	GALLONS PER DAY
GPM	GALLONS PER MINUTE
GR	GRAINS
GR	GROUND
HB	HOSE BIBB
HD	HEAD
HD	HUB DRAIN
HOA	HAND / OFF / AUTOMATIC
HP	HEAT PUMP
HP	HORSEPOWER
HS	HAND SINK
HS	HAND SWITCH
HZ	HERTZ
HVAC	HEATING, VENTILATION, AND AIR CONDITIONING
I/O	INPUT / OUTPUT
IE	INVERT ELEVATION
IG	ISOLATED GROUND
IN	INCHES
IN WC	INCHES OF WATER COLUMN
IND	INDIRECT
KV	KILOVOLT
KW	KILOWATT
LAT	LEAVING AIR TEMPERATURE
LAV	LAVATORY
LB, #	POUNDS
LRA	LOCKED ROTOR AMPS
LTG	LIGHTING
LWT	LEAVING WATER TEMPERATURE
MA	MIXED AIR
MAT	MIXED AIR TEMPERATURE
MAX	MAXIMUM
MBH	1000 BTUH
MC	MECHANICAL CONTRACTOR
MCA	MINIMUM BRANCH CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MFR	MANUFACTURER
MHB	MIXING HOSE BIBB
MIN	MINIMUM
MLO	MAIN LUG ONLY
MM	MILLIMETER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MS	MOP SINK
MUA	MAKE-UP AIR
MZ	MULTI-ZONE
N/A	NOT APPLICABLE
N.C.	NORMALLY CLOSED
NC	NOISE CRITERIA
NEC	NATIONAL ELECTRIC CODE
NEMA	NATIONAL ELECTRICAL MFR'S ASSOCIATION
NFC	NOT FOR CONSTRUCTION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
N.O.	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
OC	ON CENTER
OI	OIL INTERCEPTOR
OS&Y	OUTSIDE STEM AND YOKE
OSHA	OCCUPATIONAL SAFETY & HEALTH ADMIN.
PB	PUSH BUTTON
PC	PLUMBING CONTRACTOR
PD	PRESSURE DROP
PH	PHASE
PLBG	PLUMBING
PNLBD	PANELBOARD
PPM	PARTS PER MILLION
PRV	PRESSURE REGULATING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	POUNDS PER SQUARE INCH - ABSOLUTE
PSIG	POUNDS PER SQUARE INCH - GAUGE
QTY	QUANTITY
RA	RETURN AIR
RAT	RETURN AIR TEMPERATURE
RAW	RETURN AIR WALL GRILLE
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
RD	RADIATION DAMPER
RD	ROOF DRAIN
REBAL	REBALANCE
RECIRC	RECIRCULATE
REF	REFERENCE
REL	RELOCATED
REQ	REQUIRED
REV	REVISION, REVISE
RG	RETURN GRILLE
RH	RADIANT HEATER
RH	RELATIVE HUMIDITY
RLA	RUNNING LOAD AMPS
RO	REVERSE OSMOSIS
ROD	ROOF OVERFLOW DRAIN
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE
RTU	ROOF TOP UNIT
SA	SUPPLY AIR
SAT	SUPPLY AIR TEMPERATURE
SAW	SUPPLY AIR WALL REGISTER
SC	SECURITY CAMERA
SC	SENSIBLE CAPACITY
SD	SMOKE DETECTOR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET
SF	SUPPLY FAN
SH	SHOWER
SK	SINK
SM	SHEET METAL
SMACNA	SHEET METAL & A/C CONT NAT'L ASSOC.
SOV	SHUT-OFF VALVE
SP	STATIC PRESSURE
SPEC	SPECIFICATION
STD	STANDARD
SZ	SINGLE-ZONE
TAB	TESTING, ADJUSTING, BALANCE
TC	TOTAL CAPACITY
TD	TEMPERATURE DIFFERENCE
TD	TRENCH DRAIN
TDH	TOTAL DYNAMIC HEAD
TFD	TO FLOOR DRAIN
TG	TRANSFER GRILLE
THRU	THROUGH
TMV	THERMOSTATIC MIXING VALVE
TP	TOTAL PRESSURE
TP	TRAP PRIMER
TSP	TOTAL STATIC PRESSURE
TSTAT	THERMOSTAT
TYP	TYPICAL
U/F	UNDER FLOOR
U/G	UNDER GROUND
U/S	UNDER SLAB
UC	UNDERCUT DOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES, INC.
UR	URINAL
UNO	UNLESS NOTED OTHERWISE
V	VENT
V	VOLT
VA	VOLT-AMPERE
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VBF	VENT BELOW FLOOR
VBG	VENT BELOW GRADE
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VTR	VENT THRU ROOF
W	WATTS
w/	WITH
w/o	WITHOUT
WB	WASHER BOX
WC	WATER CLOSET
WC	WATER COLUMN
WG	WATER GAUGE
WH	WATER HEATER
WV	WET VENT

PIPING SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
CHS	CHILLED WATER SUPPLY
CHR	CHILLED WATER SUPPLY
HWS	HEATING WATER SUPPLY
HWR	HEATING WATER RETURN
TWS	SUPPLY FROM TOWER
TWR	RETURN TO TOWER
S#	STEAM AT # PSI
SR	STEAM CONDENSATE RETURN
R	REFRIGERATION (SUCTION & LIQUID)
CD	CONDENSATE DRAIN
	PIPE: RISE / FALL / TEE DOWN
	SHUT-OFF VALVE
	BALANCING VALVE
	PRESSURE REDUCING VALVE
	EMERGENCY SHUT-OFF VALVE W/ FUSIBLE LINK
	2-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	3-WAY CONTROL VALVE (ELECTRIC/ELECTRONIC)
	2-WAY CONTROL VALVE (PNEUMATIC)
	3-WAY CONTROL VALVE (PNEUMATIC)
	ASME RELIEF VALVE
	CHECK VALVE
	REDUCED PRESSURE ZONE (RPZ)
	STRAINER w/ DRAIN VALVE
H	AIR VENT (A-AUTO, H-HAND)
	PRESSURE AND TEMPERATURE TAP
	PRESSURE GAUGE W/ INSERTION WELL
	THERMOMETER W/ INSERTION WELL
FM	GPM FLUID FLOW METER
	ANCHOR
	PIPE GUIDE
	FLANGE
	UNION
	FLEXIBLE PIPE CONNECTOR
	CAPPED PIPE
	CONCENTRIC REDUCER
	ECCENTRIC REDUCER

DUCTWORK SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
12"ø	12"ø DIAMETER ROUND DUCT (INSIDE CLEAR DIMENSIONS)
18"x12"	RECTANGULAR DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
18"/12"Φ	FLAT OVAL DUCT 18" WIDE BY 12" DEEP (INSIDE CLEAR DIMENSIONS)
	MEDIUM / HIGH PRESSURE DUCTWORK (REFER TO SPECIFICATIONS)
	SPIRAL DUCTWORK (REFER TO SPECIFICATIONS)
	SUPPLY DUCT IN SECTION
	RETURN DUCT IN SECTION
	EXHAUST DUCT IN SECTION
	ELBOW WITH TURNING VANES (GREATER THAN 45° ANGLE ONLY)
	SUPPLY AIR DIFFUSER
	RETURN AIR GRILLE
	EXHAUST AIR GRILLE
	VOLUME/BALANCE DAMPER
M	MOTORIZED DAMPER
	FIRE DAMPER (FD)
	SMOKE DAMPER (SD)
	COMBINATION FIRE/SMOKE DAMPER (FSD)
A | 3 / 10"x10" / 500	DEVICE MARK | THROW PATTERN (IF SHOWN) NECK SIZE OR LENGTH OF LINEAR DIFFUSER CFM
T	THERMOSTAT
S	TEMPERATURE SENSOR
C	CO2 SENSOR
H	HUMIDISTAT
D	SMOKE DETECTOR
SP	STATIC PRESSURE SENSOR
P	PULL STATION

ANNOTATION SYMBOLS

(AS APPLICABLE)

SYMBOL	DESCRIPTION
	PLAN NOTE (PER SHEET)
XXXX	KITCHEN EQUIPMENT REFERENCE NUMBER
	POINT OF CONNECTION TO EXISTING
	TERMINATION OF DEMOLITION
	CONTINUATION
1 / M1	DETAIL NUMBER / SHEET NUMBER
1 / M1	SECTION CUT DESIGNATION

APPLICABLE CODES

2021 ARKANSAS FIRE PREVENTION CODE, VOLUME I - FIRE
2021 ARKANSAS FIRE PREVENTION CODE, VOLUME II - BUILDING
2021 ARKANSAS MECHANICAL CODE (AMC)
2020 NFPA 70 - NATIONAL ELECTRICAL CODE (NEC)
2018 ARKANSAS PLUMBING CODE (APC)
2018 ARKANSAS FUEL GAS CODE (AFGC)
2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)

DESIGN CONDITIONS

WEATHER STATION (2021 ASHRAE HANDBOOK):

ROGERS MUNICIPAL, AR, USA (WMO: 723449)
ELEVATION: 1353 FT.

OUTDOOR DESIGN CONDITIONS:

COOLING (0.4%):	94.7°F DB / 74.0°F WB
DEHUMIDIFICATION (0.4%):	74.5°F DP / 84.0°F DB
ENTHALPY (0.4%):	42.1 BTU/LB / 88.6°F DB
HEATING (99.6%):	10.0°F DB
HUMIDIFICATION (99.6%):	0.1°F DP / 13.6°F DB

INDOOR DESIGN CONDITIONS:
(UNLESS SPECIFIED BY ROOM ELSEWHERE)

SUMMER:	72°F DB / 50% RH
WINTER:	70°F DB

MECHANICAL GENERAL NOTES

(AS APPLICABLE)

1. NOTES APPLY TO ALL MECHANICAL SHEETS.
2. EACH CONTRACTOR IS RESPONSIBLE FOR HAVING THOROUGH KNOWLEDGE OF ALL DRAWINGS AND SPECIFICATIONS AS THEY RELATE TO THIS WORK. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED DUE TO LACK OF THIS KNOWLEDGE.
3. PROVIDE ALL MATERIALS FOR A COMPLETE INSTALLATION IN ALL RESPECTS READY FOR INTENDED USE AND IN STRICT ACCORDANCE WITH STATE AND LOCAL CODES AND MANUFACTURER'S RECOMMENDATIONS. PLANS AND SPECIFICATIONS GOVERN WHERE THEY EXCEED CODE MINIMUM REQUIREMENTS.
4. ALL MECHANICAL EQUIPMENT SHOWN ON THE MECHANICAL PLANS SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE, THE INDICATION AND/OR DESCRIPTION OF ANY ITEM, IN THE DRAWINGS OR SPECIFICATIONS CARRIES WITH IT THE INSTRUCTION TO FURNISH AND INSTALL THE ITEM. ALL EQUIPMENT AND MATERIALS PROVIDED BY THE CONTRACTOR WILL BE NEW; THERE WILL BE NO ALLOWANCE FOR REUSED MATERIAL UNLESS EXPLICITLY INDICATED OTHERWISE BY THE ENGINEER OR OWNER.
5. OBTAIN AND PAY FOR ALL PERMITS REQUIRED BY THIS WORK. PROVIDE TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER A COPY OF INSPECTION REPORTS AND APPROVAL CERTIFICATES FROM LOCAL AND STATE INSPECTIONS.
6. DRAWINGS ARE DIAGRAMMATIC AND INDICATE THE GENERAL ARRANGEMENTS OR GEOMETRICAL RELATIONSHIPS OF EQUIPMENT AND SERVICES. THEY ARE NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, SEQUENCE, DEVICE, OPTION, FITTING, OR COMPONENT. DO NOT SCALE FLOOR PLANS FOR EXACT LOCATION OF DUCT OR PIPE ROUTING. NOTIFY THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER OF ANY CONFLICTS OR DISCREPANCIES.
7. INFORMATION AND COMPONENTS SHOWN ON DIAGRAMS OR DETAILS, BUT NOT SHOWN ON PLANS, AND VICE VERSA, SHALL BE PROVIDED AS IF EXPRESSLY REQUIRED BY BOTH.
8. PROVIDE A CONSTRUCTION RECORD SET OF "AS-BUILT" DOCUMENTS TO THE ARCHITECT OR OWNER'S CONSTRUCTION MANAGER REFLECTING ANY VARIANCES OF INSTALLED EQUIPMENT, DUCT, OR PIPING LOCATIONS CONTRARY TO THE CONSTRUCTION DOCUMENTS.
9. COORDINATE THE INSTALLATION OF THE MECHANICAL SYSTEMS WITH OTHER TRADES TO ENSURE A NEAT AND ORDERLY INSTALLATION. INSTALL DUCTWORK AND PIPING AS TIGHT TO STRUCTURE AS POSSIBLE. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS. COORDINATE INSTALLATION OF DUCTWORK AND PIPING TO AVOID CONFLICTS WITH ELECTRICAL PANELS, LIGHTING FIXTURES, ETC. ANY MODIFICATIONS REQUIRED DUE TO LACK OF COORDINATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.
10. THESE DRAWINGS REFLECT SYSTEMS DESIGNED AROUND SPECIFIC REFERENCE PRODUCTS (BASIS OF DESIGN), THE SELECTION OF WHICH INFLUENCED THE DESIGNS OF OTHER TRADES. IF SUBSTITUTE MANUFACTURERS, SIZES, MODELS, ETC. ARE SUBMITTED, IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO COORDINATE ALL DIFFERENCES WITH OTHER TRADES. ALL COSTS OF ALL TRADES ASSOCIATED WITH THE SUBSTITUTION SHALL BE INCLUDED.
11. MECHANICAL CONTRACTOR (MC) SHALL COORDINATE AND VERIFY THE FOLLOWING WITH THE ELECTRICAL CONTRACTOR (EC) PRIOR TO BID:
    A. DISCONNECTS:
    - WHERE NOT FURNISHED WITH EQUIPMENT: FURNISHED BY EC, INSTALLED BY EC.
    - WHERE FURNISHED WITH EQUIPMENT: FURNISHED BY MC, INSTALLED BY EC.
12. NEW MECHANICAL EQUIPMENT, DUCTWORK AND PIPING ARE SHOWN AT APPROXIMATE LOCATIONS. FIELD MEASURE FINAL DUCTWORK AND PIPING LOCATIONS PRIOR TO FABRICATION AND MAKE ADJUSTMENTS AS REQUIRED TO FIT THE DUCTWORK AND PIPING WITHIN THE AVAILABLE SPACE. VERIFY THAT FINAL EQUIPMENT LOCATIONS MEET MANUFACTURER'S RECOMMENDATIONS REGARDING SERVICE CLEARANCE AND PROPER AIRFLOW CLEARANCE AROUND EQUIPMENT.
13. COORDINATE DUCTWORK AND PIPE ROUTING AWAY FROM ELECTRICAL PANELS. DO NOT INSTALL DUCTWORK OR PIPING OVER ELECTRICAL PANELS.
14. SEAL PENETRATIONS THROUGH THE BUILDING COMPONENTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. FIREPROOF PENETRATIONS THROUGH FIRE RATED COMPONENTS IN ACCORDANCE WITH U.L. REQUIREMENTS. REFER TO ARCHITECTURAL PLANS FOR WALL AND FLOOR TYPES.
15. DUCTWORK IDENTIFICATION AND INSTALLATION SHALL ADHERE TO GOVERNING CODES.
16. INSTALL DUCTWORK AND PIPING PARALLEL TO BUILDING COLUMN LINES UNLESS OTHERWISE SHOWN OR NOTED. ALL DUCTS SHALL BE MOUNTED HIGH AS POSSIBLE AGAINST BOTTOM OF STRUCTURE EXCEPT AS REQUIRED TO AVOID CONFLICTS WITH INTERSECTING DUCTS. DIAGONALLY OFFSET DUCTS IMMEDIATELY BEFORE AND AFTER PASSING UNDER INTERSECTING DUCTS OR LARGE STRUCTURAL MEMBERS TO MAINTAIN DUCT TIGHT TO STRUCTURE.
17. NO OTHER TRADES, I.E., ELECTRICAL, CEILING, PLUMBING, ETC., SHALL BE SUSPENDED, HUNG, OR SUPPORTED FROM DUCTWORK OR PIPING.
18. COORDINATE LOCATION OF EQUIPMENT SUPPORTS WITH LOCATION OF EQUIPMENT ACCESS PANELS/DOORS TO ENABLE SERVICE OF EQUIPMENT.
19. COORDINATE THE EXACT MOUNTING SIZE AND FRAME TYPE OF DIFFUSERS, REGISTERS AND GRILLES WITH THE SUPPLIER TO MEET THE CEILING, WALL AND DUCT INSTALLATION REQUIREMENTS.
20. SPRINKLER HEAD AND LIGHTING FIXTURE LOCATIONS TAKE PRECEDENCE OVER DIFFUSER LOCATIONS. ADJUST LOCATION OF CEILING DIFFUSERS, REGISTERS AND GRILLES AS REQUIRED TO ACCOMMODATE FINAL CEILING GRID AND LIGHTING LOCATIONS.
21. ALL CEILING DIFFUSERS ARE 4-WAY PATTERN UNLESS NOTED OTHERWISE.
22. LOCATE AND SET THERMOSTATS AT LOCATIONS SHOWN ON PLANS. VERIFY EXACT LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION. INSTALL WIRING IN CONDUIT PROVIDED BY ELECTRICAL CONTRACTOR. ANY THERMOSTAT THAT IS REQUIRED TO BE MOUNTED ON AN EXTERIOR WALL SHALL BE MOUNTED ON AN INSULATED PAD.
23. PROVIDE A MANUAL BALANCING DAMPER IN EACH BRANCH DUCT TAKEOFF FROM MAIN SUPPLY, RETURN, OUTDOOR AND EXHAUST AIR DUCTS. LOCATE DAMPERS A MINIMUM 4'-0" AWAY FROM DIFFUSERS. PROVIDE REMOTE BALANCING DAMPER (POTTORFF MODEL RD-10 OR EQUAL) OR CABLE OPERATED DAMPER (POTTORFF MODEL RCS OR EQUAL) WHERE INSTALLED IN AN INACCESSIBLE LOCATION.
24. PROVIDE A PREFABRICATED 45 DEGREE, HIGH EFFICIENCY, RECTANGULAR/ROUND BRANCH DUCT TAKEOFF FITTING WITH MANUAL BALANCING DAMPER AND LOCKING QUADRANT FOR BRANCH DUCT CONNECTIONS AND TAKE-OFFS TO INDIVIDUAL DIFFUSERS, REGISTERS AND GRILLES. TYPICAL BRANCH DUCT FITTING DETAIL IS APPLICABLE THROUGHOUT.
25. BRANCH DUCTWORK TO AIR OUTLETS SHALL BE SAME SIZE AS OUTLET NECK SIZE UNLESS NOTED OTHERWISE.
26. DUCT SIZES INDICATED ARE INSIDE CLEAR DIMENSIONS AND ARE REPRESENTATIVE OF THE INSIDE EQUIVALENT FREE AREA REQUIRED TO MAINTAIN THE AIR FLOW SPECIFIED. IF DUCT SIZES NEED TO BE ALTERED FOR SPACE REQUIREMENTS, ENSURE THE ORIGINAL INSIDE DUCT EQUIVALENT FREE AREA IS MAINTAINED.
27. CONTRACTOR'S OPTION TO SUBSTITUTE ROUND DUCT OF EQUAL FREE AREA FOR RECTANGULAR DUCT AND VICE VERSA. DIMENSIONS OF RECTANGULAR DUCT MAY BE ADJUSTED AS NECESSARY TO INSTALL DUCT IN AVAILABLE SPACE AS LONG AS FREE AREA IS MAINTAINED.
28. RIGID DUCTWORK INSULATION: PROVIDE 3/4 LB DENSITY, 2" R-6 THICK, INSULATION WRAP ON RIGID ROUND AND RECTANGULAR, CONCEALED SUPPLY, RETURN , AND OUTSIDE AIR DUCTS.
29. PROVIDE THERMAFLEX TYPE G-KM, M-KE, FLEXMASTER TYPE 8, OR APPROVED EQUAL FLEXIBLE DUCTWORK. FLEXIBLE DUCTWORK SHALL BE LISTED UNDER UL 181 AS CLASS 1 AIR DUCT AND BE PROVIDED WITH INTEGRAL R-6, 3/4 LB DENSITY FIBERGLASS INSULATION. FLEXIBLE DUCTWORK SHALL NOT EXCEED 3'-0" IN LENGTH AND SHALL BE INSTALLED AND SUPPORTED TO AVOID SHARP BENDS AND SAGGING.
30. FOR ALL EXPOSED DUCTWORK, PROVIDE DUCT THAT IS SUITABLE FOR PAINTING. ENSURE THAT ALL EXPOSED DUCTWORK IS PROPERLY PREPARED AND READY FOR PAINTING. COORDINATE COLOR WITH ARCHITECT.
31. PROVIDE A NEW SET OF AIR FILTERS IN UNITS PRIOR TO TESTING, ADJUSTING AND BALANCING AND BEFORE TURNING SYSTEM(S) OVER TO OWNER.
32. PROVIDE A COMPLETE TEST AND BALANCE FOR HVAC SYSTEM. AIR BALANCE SHALL BE WITHIN 5% OF SCHEDULED AIRFLOWS.
33. INSTALL VTR'S AND EXHAUST FANS A MINIMUM OF 10 FT FROM OUTSIDE AIR INTAKE.
34. PROVIDE SEISMIC BRACING FOR ALL COMPONENTS AS REQUIRED BASED ON APPROPRIATE SEISMIC DESIGN CATEGORY REQUIREMENTS PER LOCAL AND NATIONAL CODES. CONTRACTOR'S RESPONSIBILITY INCLUDES PROVIDING ALL REQUIRED DOCUMENTATION SEALED BY A REGISTERED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF THE PROJECT LOCATION AND EMPLOYED BY THE MANUFACTURER OF THE SEISMIC RESTRAINT PRODUCTS.
35. THE DESIGN OF ANY AND ALL STRUCTURAL SYSTEMS (INCLUDING MODIFICATIONS TO EXISTING STRUCTURES) THAT MAY BE REQUIRED FOR SUPPORT OF NEW MECHANICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF SEPARATE LICENSED STRUCTURAL ENGINEER.

PRIGM ENGINEERING
310 W. DICKSON ST., SUITE 210
FAYETTEVILLE, AR 72701
479.877.3188 | WWW.PRIGM.COM
#25078

STATE OF ARKANSAS
LICENSED PROFESSIONAL ENGINEER
JASON PATRICK NOVAK
No. 14988

CERTIFICATE OF AUTHORIZATION
PRIGM ENGINEERING, PLLC
No. 3588
ARKANSAS

05/08/2026

DEMX ARCHITECTURE
104 N EAST AVENUE
FAYETTEVILLE, ARKANSAS 72701 | 479.966.4871

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MECHANICAL NOTES AND LEGENDS

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PACKAGED DX UNIT SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	NOMINAL TONS	AIRFLOW TYPE	AIRFLOW CFM (MIN./MAX.)	AIRFLOW FAN ESP (IN. WG.)	AIRFLOW FAN MOTOR (HP)	COOLING TYPE	COOLING STAGES	COOLING TC (MBH)	COOLING SC (MBH)	COOLING EFF.	HEATING TYPE	HEATING STAGES	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING EFF.	REFRIG. TYPE	COMPRESSOR	FILTER	ELECTRICAL	WEIGHT (LB.)	NOTES
RTU-1	1	SHOP	LENNOX	LGT180H5M-Y 15T	PACKAGED DX, NATURAL GAS HEAT, STAGED HOT GAS REHEAT, ECONOMIZER, BAROMETRIC RELIEF	GROUND MOUNT / VERTICAL DISCHARGE	15	SUPPLY OUTSIDE AIR RELIEF	6,000 1,100	0.75 --- ---	5 --- (BAROMETRIC)	DX COIL REHEAT	3 2	181.4	143.8 -49.1	12 EER 15.4 IEER	NAT. GAS	2	260	210	81%	R-454B	3-STAGE SCROLL	DISPOSABLE, MERV 8	208/3/60 71 MCA 80 MOCP	2,871	A,B,D
RTU-2	1	STORAGE	LENNOX	LGT072H5E-Y 6T	PACKAGED DX, NATURAL GAS HEAT, STAGED HOT GAS REHEAT, ECONOMIZER, BAROMETRIC RELIEF	GROUND MOUNT / HORIZONTAL DISCHARGE	6	SUPPLY OUTSIDE AIR RELIEF	2,600 340 ---	0.75 --- ---	1-1/2 --- (BAROMETRIC)	DX COIL REHEAT	2 1	74.5	63.7 -13.7	12.2 EER 17.2 IEER	NAT. GAS	2	108	87	81%	R-454B	2-STAGE SCROLL	DISPOSABLE, MERV 8	208/3/60 32 MCA 50 MOCP	780	C,E

GENERAL NOTES:

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (CURBS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. SCHEDULED OUTSIDE AIR QUANTITIES ARE FOR OCCUPIED MODE AND DO NOT INCLUDE ECONOMIZER OR UNOCCUPIED MODES.
4. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
5. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER PLANS OR AS OTHERWISE REQUIRED BY THE AHJ. REFER TO TRAP DETAIL.
6. PROVIDE WITH:
   a. FULLY MODULATING, COMPARATIVE ENTHALPY CONTROLLED ECONOMIZER.
   b. CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
   c. LOUVERED HAIL GUARDS FOR CONDENSER COIL.
   d. FACTORY ELECTRICAL NON-FUSED DISCONNECT.
   e. FACTORY-WIRED GFCI CONVENIENCE RECEPTACLE.
   f. HINGED ACCESS PANELS.
   g. PHASE LOSS AND BROWNOUT MONITOR.
   h. CRANKCASE HEATER.
   i. BAROMETRIC RELIEF.
   j. RETURN AIR SMOKE DETECTOR.
   k. LOW AMBIENT CONTROL TO 0°F.
7. UNITS MUST BE AGA APPROVED.
8. PROVIDE WITH FACTORY MOUNTED DDC CONTROLS.
9. REFER TO SEQUENCE OF OPERATION.
10. PROVIDE WITH BACNET INTERFACE TO CONNECT TO FUTURE BAS.
11. PROVIDE WITH 7-DAY PROGRAMMABLE THERMOSTAT AND HUMIDISTAT.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH 26" HORIZONTAL CURB FOR SLAB INSTALLATION.
B. PROVIDE WITH HORIZONTAL RETURN AIR PANEL KIT.
C. PROVIDE WITH HORIZONTAL, ECONOMIZER CONVERSION KIT.
D. PROVIDE WITH DUAL STAGE HOT GAS REHEAT.
E. PROVIDE WITH SINGLE STAGE HOT GAS REHEAT.

RTU SEQUENCE OF OPERATION

GENERAL NOTES:
PROVIDE ALL NECESSARY COMPONENTS AND MATERIALS TO ACCOMPLISH THE SEQUENCE OF OPERATION WHETHER OR NOT EXPLICITLY STATED, SCHEDULED, OR NOTED OTHERWISE.

CONTROL METHOD:
UNIT SHALL BE PLACED IN OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES BY A 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL PROVIDE AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING WITH 5°F DEADBAND. THE THERMOSTAT SHALL BE CAPABLE OF BEING TEMPORARILY PLACED IN OCCUPIED MODE OUTSIDE OF PROGRAMMED TIMES. PROVIDE REMOTE TEMPERATURE SENSORS, AVERAGING TEMPERATURE SENSORS, HUMIDITY SENSORS, AND CO2 SENSORS AS SCHEDULED.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS (REFER TO SCHEDULE). THE COOLING, HEATING, AND REHEAT (WHERE SCHEDULED) SHALL OPERATE PER FACTORY CONTROLS TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE AND HUMIDITY SETPOINTS.

BAROMETRIC RELIEF DAMPER AT THE UNIT SHALL MODULATE TO MAINTAIN SPACE PRESSURE AT +0.1" W.C. (ADJ.) RELATIVE TO THE EXTERIOR OF THE BUILDING.

UNOCCUPIED MODE:
THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED MODE.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND COOLING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND HEATING SHALL BE DISABLED.

ECONOMIZER MODE:
COMPARATIVE ENTHALPY ECONOMIZER SHALL OPERATE BASED ON FACTORY CONTROLS.

DX OUTDOOR UNIT SCHEDULE

MARK	QTY	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	NOMINAL TONS	COOLING CAPACITY (MBH)	COOLING EFF.	REFRIGERANT TYPE	REFRIGERANT CONNECTION SUCTION	REFRIGERANT CONNECTION LIQUID	COMPRESSOR	ELECTRICAL	WEIGHT (LB.)
CU-1	1	LENNOX	ML17KC2-024-230	TRADITIONAL AIR-COOLED	2.0	24.3	13.4 EER2 16.0 SEER2	R-454B	3/4"	3/8"	2-STAGE SCROLL	208/1/60 14 MCA 20 MOCP	185
CU-2	1	LENNOX	ML17KC2-048-233	TRADITIONAL AIR-COOLED	4.0	47.2	11.5 EER2 15.2 SEER2	R-454B	7/8"	3/8"	2-STAGE SCROLL	208/3/60 18 MCA 30 MOCP	206
CU-3	1	LENNOX	ML17KC2-048-233	TRADITIONAL AIR-COOLED	4.0	46.5	11.5 EER2 15.2 SEER2	R-454B	7/8"	3/8"	2-STAGE SCROLL	208/3/60 18 MCA 30 MOCP	206
CU-4	1	LENNOX	ML17KC2-048-233	TRADITIONAL AIR-COOLED	4.0	47.3	11.5 EER2 15.2 SEER2	R-454B	7/8"	3/8"	2-STAGE SCROLL	208/3/60 18 MCA 30 MOCP	206

GENERAL NOTES:

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING. REFER TO DETAIL.
3. PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH EMBOSSED ALUMINUM JACKETS.
4. PROVIDE WITH LOUVERED HAIL GUARDS FOR CONDENSER COILS.
5. ELECTRICAL DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
6. PROVIDE WITH LOW AMBIENT OPERATION DOWN TO 10°F.

FURNACE SCHEDULE

MARK	QTY	OUTDOOR UNIT	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNT / CONFIG.	NOMINAL TONS	AIRFLOW TYPE	AIRFLOW CFM (MIN./MAX.)	AIRFLOW FAN ESP (IN. WG.)	AIRFLOW FAN MOTOR (HP)	COOLING TC (MBH)	COOLING SC (MBH)	HEATING TYPE	HEATING STAGES	HEATING INPUT (MBH)	HEATING OUTPUT (MBH)	HEATING EFF.	REFRIGERANT TYPE	REFRIGERANT CONNECTION SUCTION	REFRIGERANT CONNECTION LIQUID	FILTER	ELECTRICAL	WEIGHT (LB.)
FU-1	1	CU-1	LENNOX	CK40HT-24B + EL297UH070XV36BK	TRADITIONAL FURNACE & DX COIL, BLOW THRU, 17.5" CABINET WIDTH, VARIABLE SPEED MOTOR, TXV	HORIZONTAL	2	SUPPLY OUTSIDE AIR	810 65	0.5 ---	1/2 ---	24.3	21.1	NAT. GAS	2	66	64	97% AFUE	R-454B	3/4"	3/8"	DISPOSABLE MERV 8	120/1/60 7.7 FLA 15 MOCP	184
FU-2	1	CU-2	LENNOX	CK40HT-48C + EL297UH090XV48CK	TRADITIONAL FURNACE & DX COIL, BLOW THRU, 21" CABINET WIDTH, VARIABLE SPEED MOTOR, TXV	HORIZONTAL	4	SUPPLY OUTSIDE AIR	1,770 105	0.5 ---	3/4 ---	47.2	41.4	NAT. GAS	2	88	86	97% AFUE	R-454B	7/8"	3/8"	DISPOSABLE MERV 8	120/1/60 10.1 FLA 15 MOCP	217
FU-3	1	CU-3	LENNOX	CK40HT-48C + EL297UH090XV48CK	TRADITIONAL FURNACE & DX COIL, BLOW THRU, 21" CABINET WIDTH, VARIABLE SPEED MOTOR, TXV	HORIZONTAL	4	SUPPLY OUTSIDE AIR	1,580 220	0.5 ---	3/4 ---	46.5	39.5	NAT. GAS	2	88	86	97% AFUE	R-454B	7/8"	3/8"	DISPOSABLE MERV 8	120/1/60 10.1 FLA 15 MOCP	217
FU-4	1	CU-4	LENNOX	CK40HT-48C + EL297UH090XV48CK	TRADITIONAL FURNACE & DX COIL, BLOW THRU, 21" CABINET WIDTH, VARIABLE SPEED MOTOR, TXV	HORIZONTAL	4	SUPPLY OUTSIDE AIR	1,645 300	0.5 ---	3/4 ---	47.3	41.0	NAT. GAS	2	88	86	97% AFUE	R-454B	7/8"	3/8"	DISPOSABLE MERV 8	120/1/60 10.1 FLA 15 MOCP	217

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. UL OR ETL APPROVED. ENTIRE UNIT SHALL BE AHRI LISTED AND CERTIFIED.
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, FLOOR STANDS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. SCHEDULED OUTSIDE AIR QUANTITIES ARE FOR OCCUPIED MODE AND DO NOT INCLUDE ECONOMIZER OR UNOCCUPIED MODES.
4. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.
5. CONDENSATE TRAP SHALL BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. ROUTE TO NEAREST APPROVED RECEPTOR PER
6. PROVIDE AND INSTALL REFRIGERANT PIPING AND NECESSARY COMPONENTS SIZED PER MANUFACTURER'S INSTRUCTIONS. BASE SIZING ON ACTUAL PIPING INSTALLATION LENGTHS AND CONFIGURATION. EXTERIOR INSULATION ON OUTDOOR REFRIGERANT LINES SHALL BE COVERED WITH EMBOSSED ALUMINUM JACKETS.
7. PROVIDE WITH:
   A. CONDENSATE OVERFLOW SWITCH TO SHUT DOWN SYSTEM IN THE EVENT OF PRIMARY DRAIN PAN OVERFLOW.
   B. FILTER RACK.
   C. CONCENTRIC VENT TERMINAL THRU ROOF.
   D. 7-DAY PROGRAMMABLE THERMOSTAT AND HUMIDISTAT.
   E. FACTORY INSTALLED A2L SENSOR.
   F. EDA HOT LIQUID REHEAT COIL TO PROVIDE HUMIDITY CONTROL.
8. ELECTRICAL DISCONNECT PROVIDED BY ELECTRICAL CONTRACTOR.
9. PROVIDE WITH BACNET INTERFACE TO CONNECT TO FUTURE BAS.
10. PROVIDE CO2 SENSOR FOR FU-1.

FURNACE SEQUENCE OF OPERATION

GENERAL NOTES:
PROVIDE ALL NECESSARY COMPONENTS AND MATERIALS TO ACCOMPLISH THE SEQUENCE OF OPERATION WHETHER OR NOT EXPLICITLY STATED, SCHEDULED, OR NOTED OTHERWISE.

CONTROL METHOD:
UNIT SHALL BE PLACED IN OCCUPIED/UNOCCUPIED AND HEAT/COOL MODES BY A 7-DAY PROGRAMMABLE THERMOSTAT. THERMOSTAT SHALL PROVIDE AUTOMATIC CHANGEOVER BETWEEN HEATING AND COOLING WITH 5°F DEADBAND. THE THERMOSTAT SHALL BE CAPABLE OF BEING TEMPORARILY PLACED IN OCCUPIED MODE OUTSIDE OF PROGRAMMED TIMES.

OCCUPIED MODE:
DURING OCCUPIED PERIODS, THE SUPPLY FAN SHALL RUN CONTINUOUSLY AND THE OUTSIDE AIR DAMPER SHALL OPEN TO MAINTAIN MINIMUM VENTILATION REQUIREMENTS (REFER TO SCHEDULE). THE COOLING, HEATING, AND REHEAT SHALL OPERATE PER FACTORY CONTROLS TO MAINTAIN THE OCCUPIED SPACE TEMPERATURE AND HUMIDITY SETPOINT.

WHEN ANY UNIT IS IN OCCUPIED MODE, MOTORIZED DAMPER FOR GV-1 SHALL FULLY OPEN.

UNOCCUPIED MODE:
THE OUTDOOR AIR DAMPER SHALL REMAIN CLOSED DURING UNOCCUPIED MODE.

WHEN THE SPACE TEMPERATURE IS ABOVE THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND COOLING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE FALLS BELOW THE UNOCCUPIED COOLING SETPOINT OF 80.0 DEG. F MINUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND COOLING SHALL BE DISABLED.

WHEN THE SPACE TEMPERATURE IS BELOW THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL START, THE OUTSIDE AIR DAMPER SHALL REMAIN CLOSED AND HEATING SHALL BE ENABLED. WHEN THE SPACE TEMPERATURE RISES ABOVE THE UNOCCUPIED HEATING SETPOINT OF 60.0 DEG. F PLUS THE UNOCCUPIED DIFFERENTIAL OF 4.0 DEG. F (ADJ.) THE SUPPLY FAN SHALL STOP AND HEATING SHALL BE DISABLED.

WHEN ALL UNITS ARE IN UNOCCUPIED MODE, MOTORIZED DAMPER FOR GV-1 SHALL FULLY CLOSE.

DEMAND CONTROLLED VENTILATION (FU-1 ONLY):
UPON A RISE IN CO2 LEVELS ABOVE 600 PPM (ADJ.) THE OUTSIDE AIR DAMPER SHALL OPEN LINEARLY FROM THE MINIMUM POSITION TO THE MAXIMUM POSITION AT 1200 PPM (ADJ.). ON A FALL IN CO2 LEVELS BELOW 1200 PPM (ADJ.), THE DAMPER SHALL CLOSE LINEARLY FROM THE MAXIMUM POSITION TO THE MINIMUM POSITION AT 600 PPM (ADJ.).

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STATE OF ARKANSAS — LICENSED PROFESSIONAL ENGINEER — No. 14988 — JASON PATRICK NOVAK

05/08/2026

CERTIFICATE OF AUTHORIZATION — PRIGM ENGINEERING, PLLC — No. 3588 — ARKANSAS

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MECHANICAL SCHEDULES

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FAN SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MOUNTING	CFM	ESP (IN. WC.)	DRIVE	MOTOR SIZE	BHP	WHEEL DIAM. (IN.)	FAN RPM	ELECTRICAL	WEIGHT (LB.)	NOTES
EF-1	1	JANITOR	GREENHECK	SP-B90	CENTRIFUGAL	CEILING	50	0.375	DIRECT	18 WATTS	0.01	7.94	684	115/60/1 0.2 MCA 15 MOCP	10	A-D,F,O
EF-2	3	GENERAL EXHAUST	GREENHECK	SP-B90	CENTRIFUGAL	CEILING	50	0.375	DIRECT	18 WATTS	0.01	7.94	684	115/60/1 0.2 MCA 15 MOCP	10	A-D,E,O
EF-3	1	IT	GREENHECK	SP-B110	CENTRIFUGAL	CEILING	60	0.375	DIRECT	28 WATTS	0.01	7.94	679	115/60/1 1.4 MCA 15 MOCP	10	A-D,H,O
EF-4	1	GENERAL EXHAUST	GREENHECK	SP-B150	CENTRIFUGAL	CEILING	100	0.375	DIRECT	46 WATTS	0.02	7.94	760	115/60/1 2.2 MCA 15 MOCP	10	A-D,E,O
EF-5	1	SHOP EXHAUST	GREENHECK	SQ-9-M1-VG	SQUARE INLINE DUCT, CENTRIFUGAL	SUSPENDED, HORIZONTAL, REAR DISCHARGE	1,220	0.50	DIRECT	1 HP	0.20	12.25	1,801	208/60/1 10.0 MCA 15 MOCP	83	C,D,G,O
HVLS-1	1	SHOP CIRCULATION	GREENHECK	DS-3-10-LV	HIGH VOLUME, LOW SPEED CEILING FAN	SUSPENDED	24,300	---	DIRECT	1-1/2 HP	---	120	85	208/60/3 7 FLA	136	I-N

GENERAL NOTES (ALL UNITS AS APPLICABLE):

1. AMCA CERTIFIED AND UL OR ETL LISTED. (GREASE EXHAUST FANS UL762, SMOKE EXHAUST UL705)
2. PROVIDE ALL MATERIALS AND/OR ACCESSORIES AS REQUIRED FOR MOUNTING (HANGING RODS, MOUNTING KITS, ETC.). PROVIDE APPROPRIATE VIBRATION ISOLATION FOR APPLICATION.
3. STATIC PRESSURE SHOWN IS EXTERNAL TO UNIT. MANUFACTURER SHALL ADD DAMPER AND ACCESSORY LOSSES TO THIS VALUE BEFORE SELECTING FAN.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE FLEXIBLE DUCT CONNECTIONS.
B. PROVIDE WITH ALUMINUM CEILING GRILLE.
C. PROVIDE WITH INTEGRAL SPEED CONTROLLER.
D. PROVIDE WITH GRAVITY BACKDRAFT DAMPER.
E. INTERLOCK WITH ROOM LIGHTS, REFER TO ELECTRICAL.
F. INTERLOCK WITH FU-4 TO OPERATE WHEN IN OCCUPIED MODE.
G. INTERLOCK WITH RTU-1 TO OPERATE WHEN IN OCCUPIED MODE.
H. PROVIDE WITH COOLING ONLY THERMOSTAT. FAN TO ENERGIZE WHEN TEMPERATURE IN SPACE INCREASES ABOVE SETPOINT (80F, ADJUSTABLE.)
I. PROVIDE WITH FORWARD AND REVERSE CAPABILITY.
J. PROVIDE WITH FACTORY MOUNTED AND WIRED VFD.
K. FINISH TO BE SELECTED BY ARCHITECTS FROM MANUFACTURER'S STANDARD COLOR OPTIONS.
L. PROVIDE EXTENDED DROP LENGTH AS REQUIRED. COORDINATE MOUNTING ELEVATION WITH ARCHITECT AND OWNER PRIOR TO PURCHASING.
M. PROVIDE WITH STANDARD TOUCHSCREEN CONTROLLER.
N. INTERLOCK FAN TO SHUT DOWN IMMEDIATELY UPON RECEIVING A WATER FLOW SIGNAL FROM THE FIRE ALARM SYSTEM.
O. PROVIDE WITH FACTORY DISCONNECT SWITCH.

GRAVITY VENTILATOR SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	SIZE	MAX. FLOW (CFM)	MAX. PD (IN. WC.)	THROAT (SF)	VELOCITY (FPM)	WEIGHT (LB.)
GV-1	1	FU-1,2,3,4	GREENHECK	GRSI	SPUN ALUMINUM GRAVITY VENTILATOR	16	690	0.06	1.45	476	38

GENERAL NOTES (ALL DEVICES AS APPLICABLE):

1. PROVIDE WITH ROOF CURB. ROOF CURB TO SLOPE TO MATCH ROOF PITCH.
2. PROVIDE WITH INSECT SCREEN.
3. PROVIDE WITH MOTORIZED DAMPER. INTERLOCK TO OPEN WHEN ANY FU IS IN THE OCCUPIED MODE OF OPERATION. OTHERWISE, FULLY CLOSED.

AIR DEVICE SCHEDULE

MARK	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	MODULE SIZE	NECK SIZE	NOTES
A	SUPPLY	TITUS	TDC-AA	ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK	12" x 12"	REF. PLAN	A
B	SUPPLY	TITUS	TDC-AA	ALUMINUM LOUVERED FACE DIFFUSER, ROUND NECK	24" x 24"	REF. PLAN	A
C	SUPPLY	TITUS	ML-39	ALUMINUM MODULINEAR SLOT SUPPLY DIFFUSER, 1" SLOT, 2-SLOT, WITH FACTORY PLENUM	REF. PLAN FOR LENGTH	REF. PLAN	
D	SUPPLY	TITUS	300FL	ALUMINUM DOUBLE DEFLECTION GRILLE, 3/4" BLADE SPACING, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	A
E	SUPPLY	TITUS	S300FL	ALUMINUM, DIRECT SPIRAL DUCT MOUNTED, DOUBLE DEFLECTION GRILLE, 3/4" BLADE SPACING, FRONT BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	B
F	SUPPLY	TITUS	S-DL-SV	LONG THROW, HIGH CAPACITY ALUMINUM SUPPLY GRILLE, ROTATING DRUM, CURVED FRAME	---	REF. PLAN	
1	RETURN / TRANSFER	TITUS	50F	ALUMINUM EGGCRATE GRILLE, ROUND NECK	24" x 24"	REF. PLAN	
2	RETURN / TRANSFER	TITUS	50F	ALUMINUM EGGCRATE GRILLE, RECTANGULAR NECK	24" x 24"	REF. PLAN	
3	RETURN / TRANSFER	TITUS	350FL	ALUMINUM GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	
4	RETURN / TRANSFER	TITUS	CT-700L	ALUMINUM DOOR RETURN GRILLE WITH SIGHT-PROOF BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	
5	EXHAUST	TITUS	350FL	ALUMINUM GRILLE, 3/4" BLADE SPACING, 35 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION	---	REF. PLAN	

GENERAL NOTES (ALL DEVICES AS APPLICABLE):

1. ALL SUPPLY DIFFUSERS ARE 4-WAY/ALL-WAY THROW UNLESS NOTED OTHERWISE.
2. DIFFUSER NECK SHALL BE SAME AS BRANCH DUCT SIZE UNLESS SHOWN OTHERWISE. REFER TO PLANS.
3. PROVIDE WITH BORDER/FRAME COMPATIBLE WITH MOUNTING SURFACE TYPE. REFER TO ARCHITECTURAL DRAWINGS.
4. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS OR READY FOR PAINT.
5. PROVIDE WITH DAMPER AT TAKEOFF TO EACH DEVICE AND WHERE OTHERWISE SHOWN ON PLANS.
6. PROVIDE NECK FOR DUCT CONNECTION AS REQUIRED. PROVIDE MANUFACTURER'S SQUARE TO ROUND ADAPTOR (SRG) WHERE APPLICABLE.
7. DIFFUSERS SHALL BE FULL FACE EXCEPT WHERE NOTED ON PLANS.
8. INSULATE BACK PANEL OF ALL SUPPLY DIFFUSERS. INSULATION TYPE SHALL MATCH INSULATION USED ON SUPPLY DUCTWORK.
9. PROVIDE MANUFACTURER'S INSULATED PLENUM FOR LINEAR DIFFUSERS. FIELD FABRICATE PLENUMS WHERE REQUIRED.
10. MAX NOISE CRITERIA 28, UNLESS NOTED OTHERWISE.

NOTES (APPLICABLE ONLY WHERE NOTED):

A. PROVIDE WITH OPPOSED BLADE DAMPER IN NECK, ADJUSTABLE FROM FACE.
B. PROVIDE WITH AIR SCOOP DEVICE, ADJUSTABLE FROM FACE.

LOUVER SCHEDULE

MARK	QTY	SERVICE	BASIS OF DESIGN MFR	BASIS OF DESIGN MODEL	DESCRIPTION	SIZE	MAX. FLOW (CFM)	MAX. PD (IN. WC.)	FREE AREA (SF)	VELOCITY (FPM)
LV-1	1	SHOP EXHAUST	GREENHECK	EHH-601	WIND DRIVEN RAIN LOUVER, HORIZONTAL BLADE	28" x 30"	1,220	0.06	2.5	479

GENERAL NOTES (ALL DEVICES AS APPLICABLE):

1. FINISH TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD OPTIONS.
2. PROVIDE WITH BIRD SCREEN.

SMACNA DUCT CLASSIFICATION SCHEDULE

DESCRIPTION	PRESSURE CLASS	SEAL CLASS	LEAKAGE CLASS
ALL DUCTWORK			
RECTANGULAR	1"	**	**
ROUND	2"	**	**
FLEXIBLE	1"	---	---

** REFER TO MINIMUM DUCT SEAL AND LEAKAGE CLASSIFICATION SCHEDULES.

MINIMUM DUCT SEAL CLASSIFICATION SCHEDULE

PRESSURE CLASS	SUPPLY OUTDOORS	SUPPLY UNCONDITIONED SPACES	SUPPLY CONDITIONED SPACES	RETURN OUTDOORS	RETURN UNCONDITIONED SPACES	RETURN CONDITIONED SPACES	EXHAUST OUTDOORS	EXHAUST UNCONDITIONED SPACES	EXHAUST CONDITIONED SPACES
1/2", 1", 2"	A	C	C	A	B	C	C	C	C

NOTE: THIS SCHEDULE STATES MINIMUM STANDARD REQUIREMENTS. MEET SPECIFIC REQUIRMENTS WHERE SPECIFIED ON SMACNA DUCT CLASSIFICATION SCHEDULE.

MINIMUM DUCT LEAKAGE CLASSIFICATION SCHEDULE

SEAL CLASS	APPLICABLE SEALING	LEAKAGE CLASS RECTANGULAR DUCT	LEAKAGE CLASS ROUND DUCT
C	TRAVERSE JOINTS ONLY	24	12
B	TRAVERSE JOINTS AND SEAMS	12	6
A	JOINTS, SEAMS, AND ALL WALL PENETRATIONS	6	3

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MECHANICAL SCHEDULES

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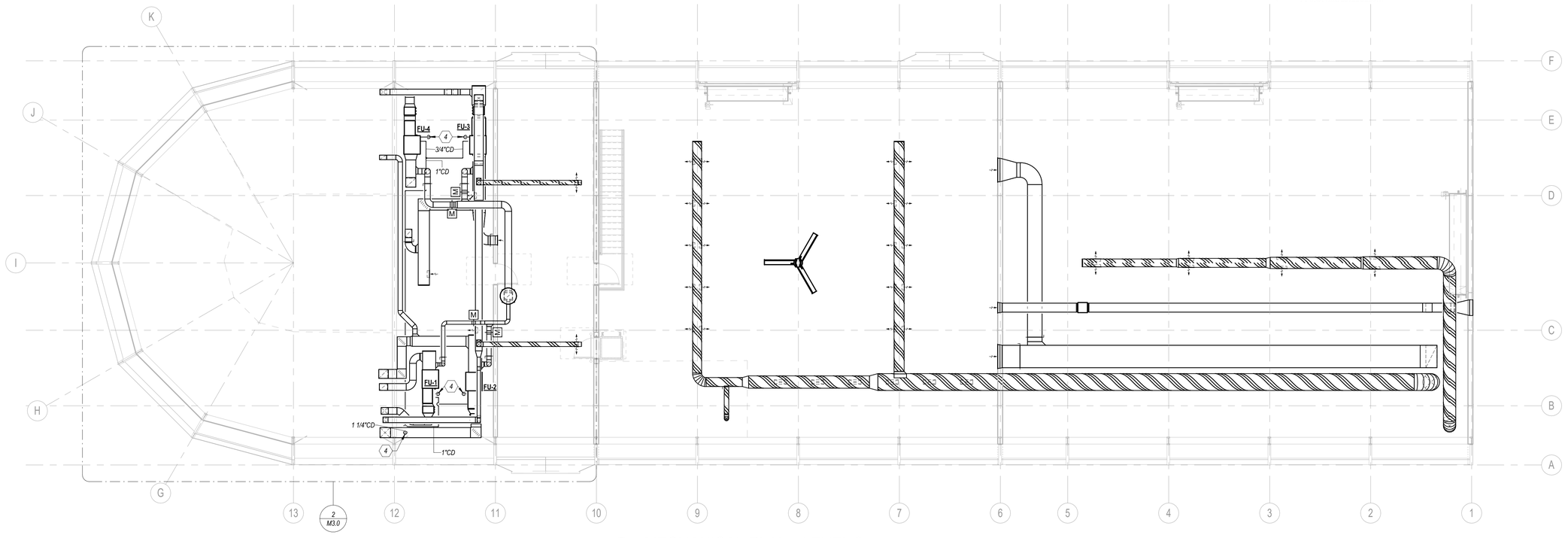
GENERAL NOTES:

1. *COORDINATE ALL DUCTWORK AND PIPING PENETRATIONS THROUGH BUILDING WALLS AND ROOF WITH THE BUILDING MANUFACTURER. ALL PENETRATIONS SHALL BE IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.*
2. *ALL EXPOSED SUPPLY DUCTWORK SHALL BE DOUBLE-WALL.*
3. *REFRIGERANT AND CONDENSATE PIPING ENTERING/LEAVING BUILDING MUST NOT BE ROUTED WITHIN EXTERIOR WALL CAVITY. PIPING CAN ONLY PASS THROUGH EXTERIOR WALL CAVITY.*

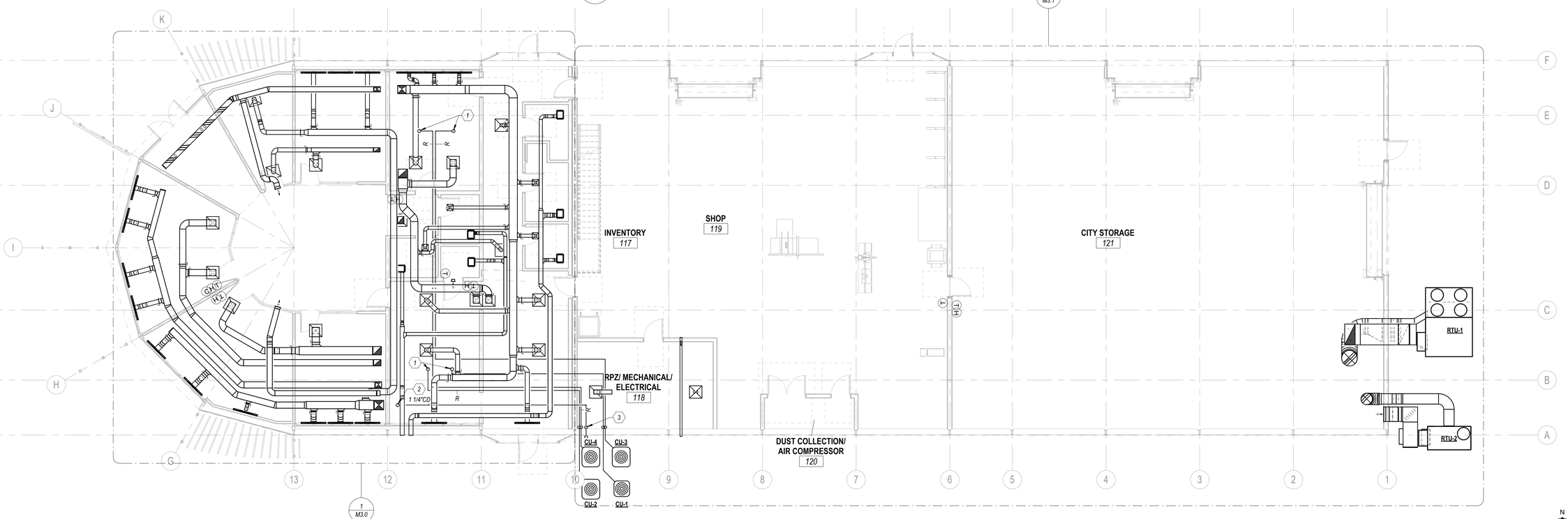
KEYNOTES:

1. *REFRIGERANT PIPING UP TO LEVEL ABOVE TO SERVE SPLIT SYSTEM EVAP COILS.*
2. *CONDENSATE PIPING DOWN FROM LEVEL ABOVE.*
3. *ROUTE CONDENSATE PIPING EXPOSED WITHIN ROOM DOWN EXTERIOR WALL. TERMINATE AT EXTERIOR WITH AIR GAP.*
4. *PIPING FROM LEVEL BELOW.*



2 MECHANICAL PLAN - LEVEL 2

1/8" = 1'-0"



1 MECHANICAL PLAN - LEVEL 1

1/8" = 1'-0"

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MECHANICAL OVERALL PLAN

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GENERAL NOTES:

1. *COORDINATE ALL DUCTWORK AND PIPING PENETRATIONS THROUGH BUILDING WALLS AND ROOF WITH THE BUILDING MANUFACTURER. ALL PENETRATIONS SHALL BE IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.*
2. *ALL EXPOSED SUPPLY DUCTWORK SHALL BE DOUBLE-WALL.*

KEYNOTES:

#	
1	*18"X18" RECTANGULAR SUPPLY DUCT UP TO LEVEL ABOVE.*
2	*10"X6" RECTANGULAR SUPPLY DUCT UP TO LEVEL ABOVE.*
3	*12"X12" RECTANGULAR SUPPLY DUCT UP TO LEVEL ABOVE.*
4	*12"X14" RECTANGULAR RETURN DUCT UP TO LEVEL ABOVE.*
5	*16"X16" RECTANGULAR RETURN DUCT UP TO LEVEL ABOVE.*
6	*14"X12" RECTANGULAR RETURN DUCT UP TO LEVEL ABOVE.*
7	*18"X16" RECTANGULAR RETURN DUCT UP TO LEVEL ABOVE.*
8	*8"X12" RECTANGULAR RETURN DUCT UP TO LEVEL ABOVE.*
9	*16"X16" RECTANGULAR SUPPLY DUCT UP TO LEVEL ABOVE.*
10	*10"X12" RECTANGULAR SUPPLY DUCT UP TO LEVEL ABOVE.*
11	*DIFFUSER SHALL HAVE A 1-FOOT (1'-0") SECTION BLANK OFF.*
12	*DIFFUSER SHALL HAVE A 2-FOOT (2'-0") SECTION BLANK OFF.*
13	*DIFFUSER SHALL BE BLANKED OFF.*
14	*8" ROUND EXHAUST DUCT WITH WALL CAP.*
15	*DUCT DOWN TO LEVEL BELOW.*
16	*MOTORIZED CONTROL DAMPERS, SET PER AIRFLOW SHOWN ON FURNACE SCHEDULE.*
17	*REFRIGERANT PIPING UP TO FLOOR ABOVE.*
18	*CONDENSATE PIPING UP TO FLOOR ABOVE.*
19	*REFRIGERANT PIPING DOWN TO FLOOR BELOW.*
20	*CONDENSATE PIPING DOWN TO FLOOR BELOW.*
21	*UNDERCUT DOOR FOR JANITOR'S CLOSET.*
22	*ROUTE COMBUSTION AND EXHAUST PIPING TO SOUTH SIDE OF ROOF WITH CONCENTRIC VENT.*

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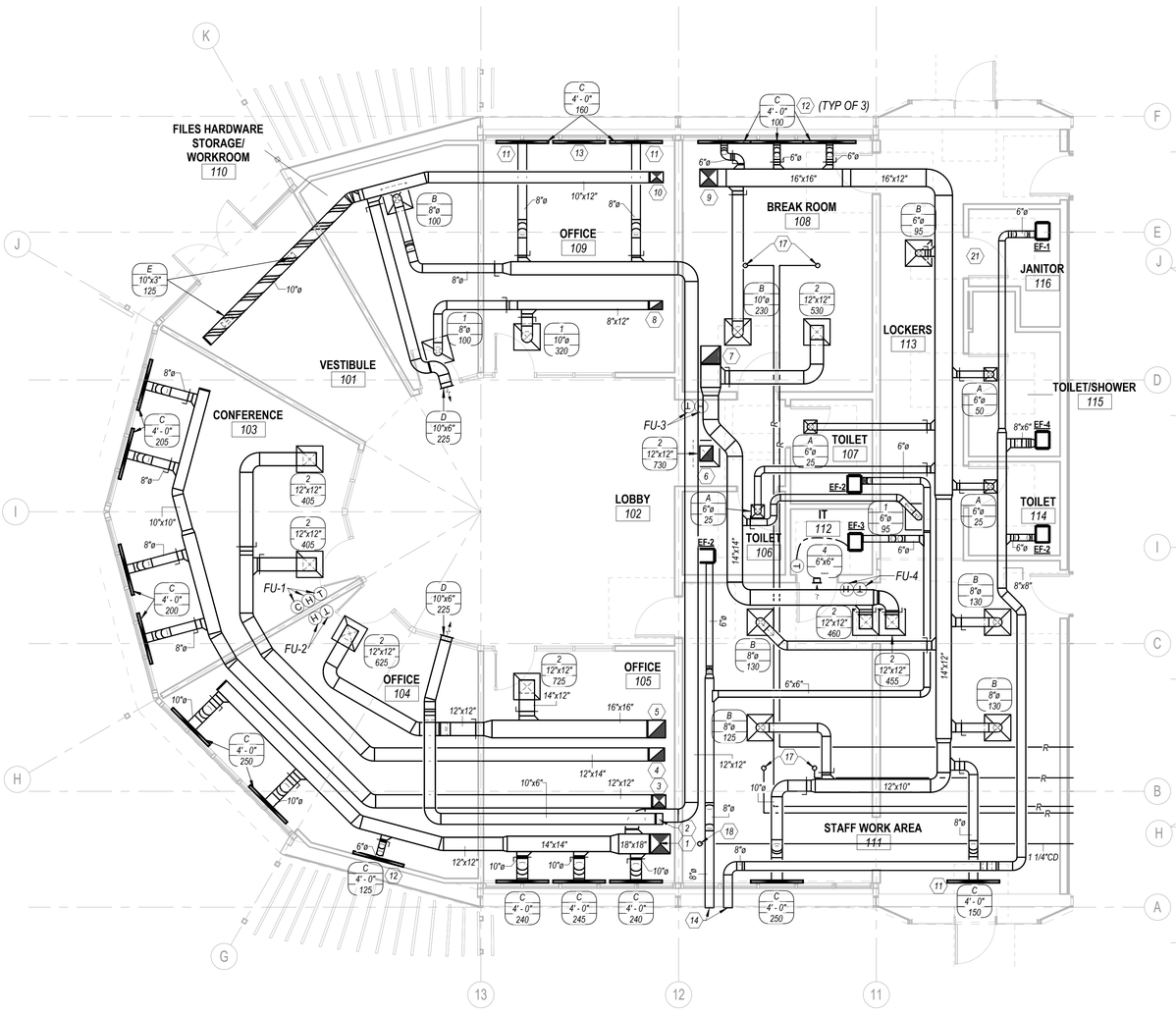
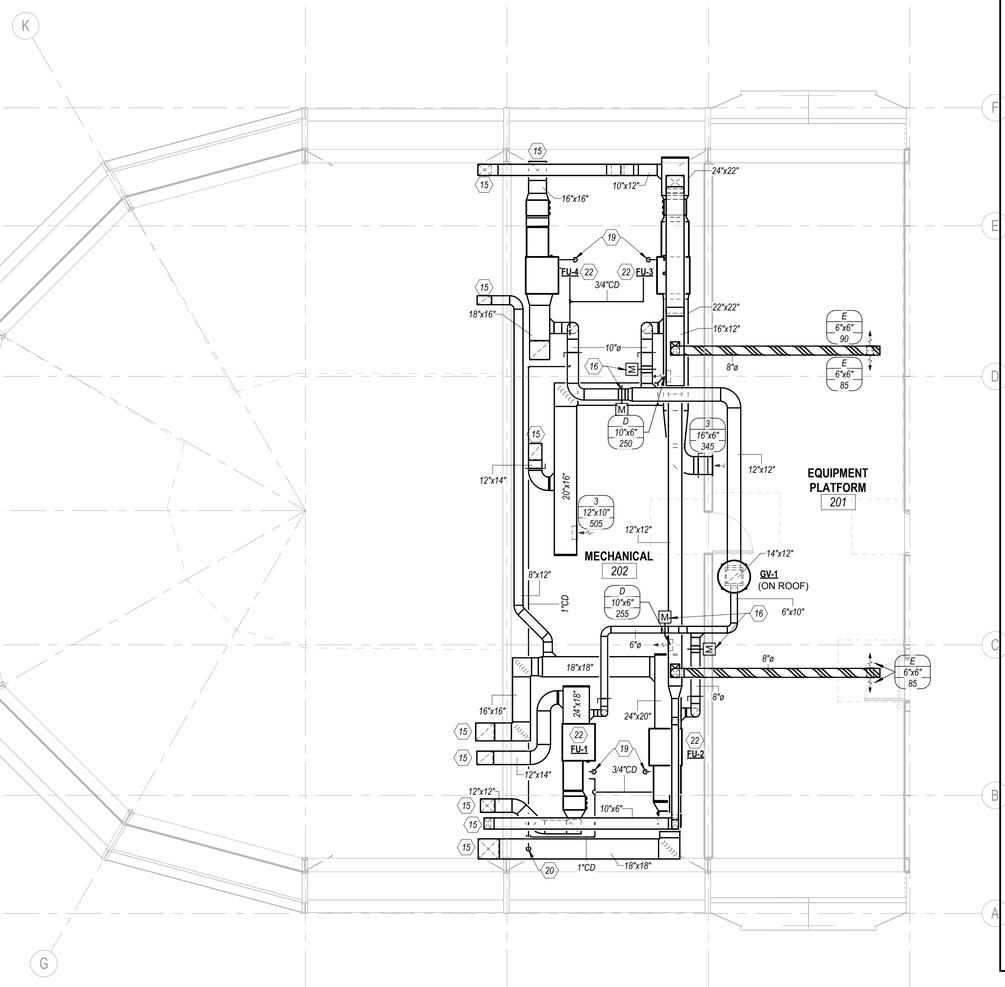


1 MECHANICAL ENLARGED OFFICE PLAN

3/16" = 1'-0"



2 MECHANICAL ENLARGED MEZZANINE PLAN

3/16" = 1'-0"

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MECHANICAL ENLARGED PLANS

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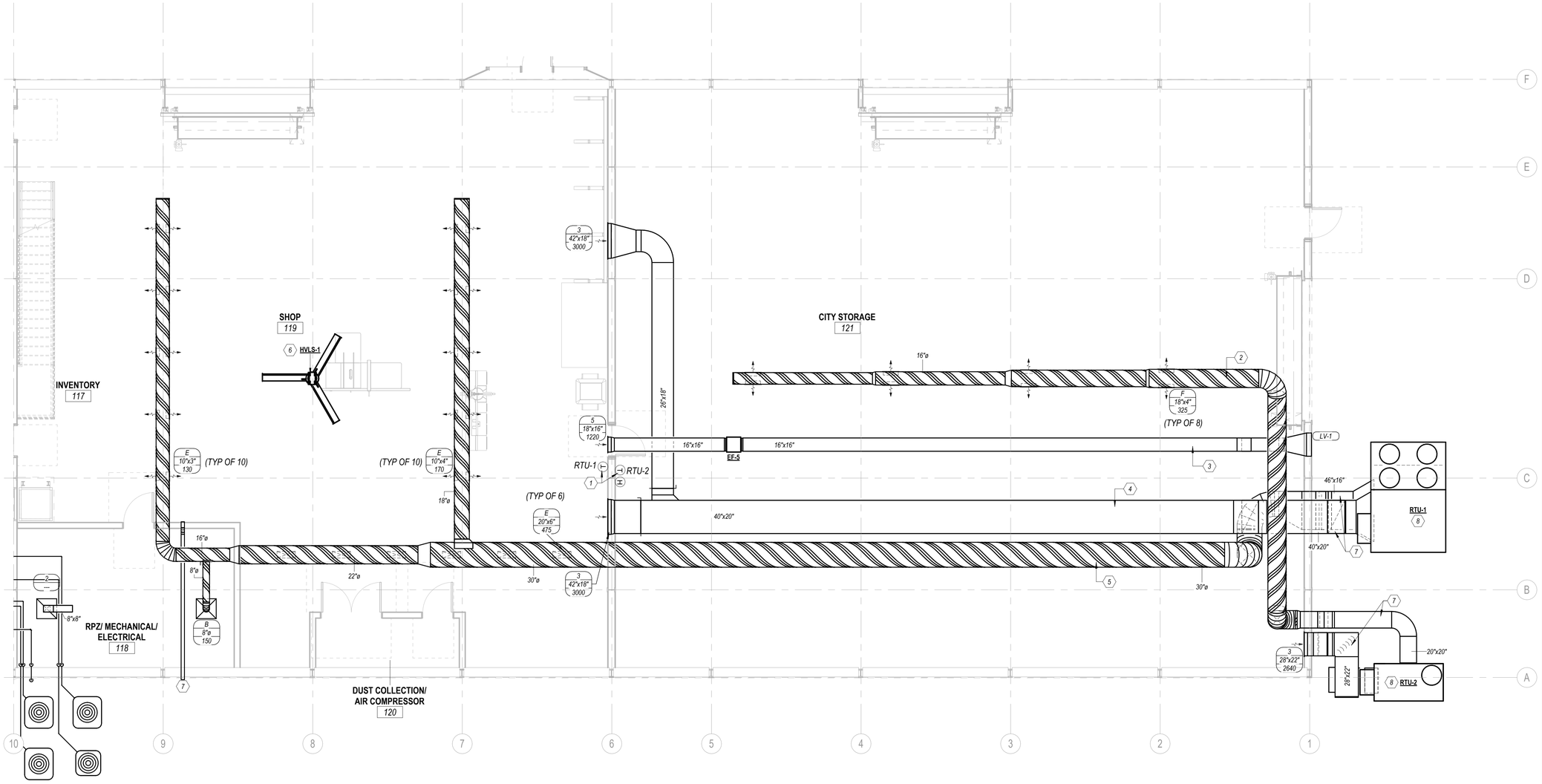
GENERAL NOTES:

1. *COORDINATE ALL DUCTWORK AND PIPING PENETRATIONS THROUGH BUILDING WALLS AND ROOF WITH THE BUILDING MANUFACTURER. ALL PENETRATIONS SHALL BE IN ACCORDANCE TO MANUFACTURER'S RECOMMENDATIONS.*
2. *ALL EXPOSED SUPPLY DUCTWORK SHALL BE DOUBLE-WALL.*

KEYNOTES:

1. *PROVIDE WITH RETURN AIR TEMP SENSOR IN DUCTWORK.*
2. *DUCT TO BE CENTERED AT 27'-0" AFF.*
3. *DUCT TO BE CENTERED AT 25'-10" AFF.*
4. *DUCT TO BE CENTERED 19'-7" AFF*
5. *DUCT TO BE CENTERED AT 18'-8" AFF.*
6. *LOCATE FAN AS HIGH AS POSSIBLE. REFER TO MANUFACTURER'S REQUIRED CLEARANCES TO DETERMINE DROP LENGTH.*
7. *PROVIDE EMBOSSED ALUMINUM JACKETING TO PROTECT INSULATION FOR EXTERIOR SHEET METAL DUCTWORK. PRO-R DUCTWORK MAY BE USED IN LIEU OF SHEET METAL DUCTWORK WITH EXTERIOR INSULATION AND JACKETING.*
8. *ROUTE CONDENSATE FROM ROOFTOP UNIT TO GRADE WITH AIR GAP.*



1 MECHANICAL ENLARGED SHOP PLAN

3/16" = 1'-0"

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MECHANICAL ENLARGED PLANS

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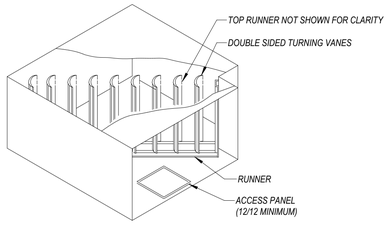
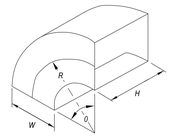


NOTES:
1. TURNING VANES, TYPICAL WHERE SHORT RADIUS ELLS ARE NOT INDICATED.
2. NUMBER AND CONFIGURATION OF VANES PER SMACNA STANDARDS

11 TURNING VANE DETAIL
SCALE: NTS

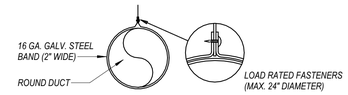


CENTERLINE R = 3W/2 UNLESS OTHERWISE SPECIFIED - NOT RESTRICTED TO 90° ELBOWS.

WHERE AIR VELOCITY IS BELOW 1,000 FPM, R = W/2 MAY BE USED.

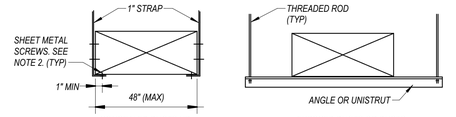
SQUARE THROAT ELBOWS MAY NOT BE USED.

10 SMACNA RADIUS ELBOW TYPE RE1 DETAIL
SCALE: NTS



NOTE:
1. FOR DUCTS LARGER THAN 36" DIAMETER, USE TWO HANGER RODS, WIRES OR STRAPS TO SUPPORT DUCT FROM EACH SIDE.

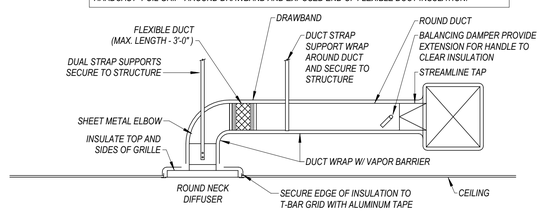
9 ROUND DUCT SUPPORT
SCALE: NTS



NOTES:
1. USE THREADED ROD FOR ALL DUCTS LARGER THAN 48" DIAMETER WIDE.
2. SHEET METAL SCREWS MAY BE OMITTED IF HANGER STRAP IS CONTINUOUS AND LOOPS UNDER ENTIRE DUCT.

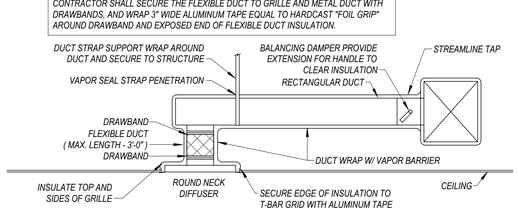
8 RECTANGULAR DUCT SUPPORT
SCALE: NTS

NOTE:
FLEXIBLE DUCT CONNECTIONS SHALL BE INSTALLED TO ADC STANDARDS AND SEALED TO UL STANDARDS PER AMC 603 AND 604.2.1. AS A MINIMUM, THE CONTRACTOR SHALL SECURE THE FLEXIBLE DUCT TO ENDS OF METAL DUCT WITH DRAWBANDS, AND WRAP 3" WIDE ALUMINUM TAPE EQUAL TO HARDCAST "FOIL GRIP" AROUND DRAWBAND AND EXPOSED END OF FLEXIBLE DUCT INSULATION.

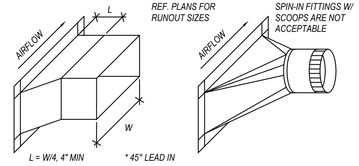


7 ROUND DUCT DIFFUSER CONNECTION
SCALE: NTS

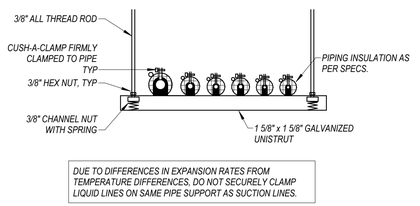
NOTE:
FLEXIBLE DUCT CONNECTIONS SHALL BE INSTALLED TO ADC STANDARDS AND SEALED TO UL STANDARDS PER AMC 603 AND 604.2.1. AS A MINIMUM, THE CONTRACTOR SHALL SECURE THE FLEXIBLE DUCT TO GRILLE AND METAL DUCT WITH DRAWBANDS, AND WRAP 3" WIDE ALUMINUM TAPE EQUAL TO HARDCAST "FOIL GRIP" AROUND DRAWBAND AND EXPOSED END OF FLEXIBLE DUCT INSULATION.



6 RECTANGULAR DUCT GRILLE CONNECTION
SCALE: NTS

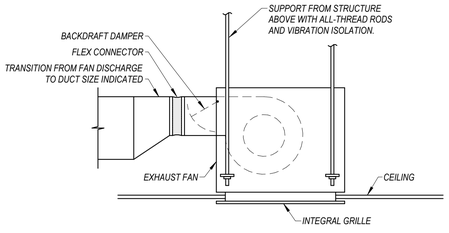


5 BRANCH DUCT FITTING
SCALE: NTS

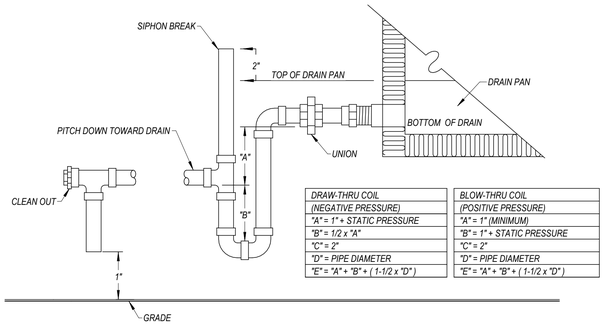


DUE TO DIFFERENCES IN EXPANSION RATES FROM TEMPERATURE DIFFERENCES, DO NOT SECURELY CLAMP LIQUID LINES ON SAME PIPE SUPPORT AS SUCTION LINES.

4 REFRIGERANT LINE SUPPORT
SCALE: NTS

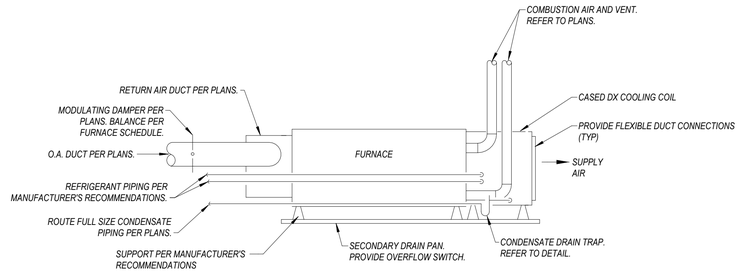


3 CEILING MOUNTED CABINET EXHAUST FAN
SCALE: NTS



DRAW-THRU COIL (NEGATIVE PRESSURE)	BLOW-THRU COIL (POSITIVE PRESSURE)
"A" = 1" + STATIC PRESSURE	"A" = 1" (MINIMUM)
"B" = 1/2 x "A"	"B" = 1" + STATIC PRESSURE
"C" = 2"	"C" = 2"
"D" = PIPE DIAMETER	"D" = PIPE DIAMETER
"E" = "A" + "B" + (1-1/2 x "D")	"E" = "A" + "B" + (1-1/2 x "D")

2 CONDENSATE TRAP DETAIL
SCALE: NTS



1 HORIZONTAL FURNACE DETAIL
SCALE: NTS

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MECHANICAL DETAILS

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ELECTRICAL SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
○	RECESSED CAN LIGHT FIXTURE
▭	FLUORESCENT OR LED FIXTURE
	TRACK LIGHTING
	EXIT FIXTURE (WALL MOUNTED/CEILING MOUNTED)
$	SWITCH, SINGLE POLE
$3	SWITCH, 3-WAY
$D	SWITCH, DIMMER, TO BE COMPATIBLE WITH LIGHT TYPE AND LOAD
$T	SINGLE POLE TIMER SWITCH (PARAGON MODEL #ET1100F)
$3T	3-WAY TIMER SWITCH (PARAGON MODEL #ET1100F/3-WAY)
$M	SWITCH, MANUAL MOTOR
$OS	SWITCH, OCCUPANCY SENSOR, WALL MOUNT
$OS,D	SWITCH, OCCUPANCY SENSOR AND DIMMER COMBO, WALL MOUNT
	RECEPTACLE, DUPLEX
	RECEPTACLE, DUPLEX, ISOLATED GROUND
	RECEPTACLE, DUPLEX, GFI
OS	OCCUPANCY SENSOR, CEILING MOUNT
PP	POWER PACK FOR LIGHTING CONTROLS
	RECEPTACLE, DUPLEX, CEILING MOUNTED (FIELD VERIFY EXACT LOCATION) INSTALL FLUSH IN CEILING IN AREAS WITH FINISHED CEILINGS
	RECEPTACLE, DUPLEX FLUSH FLOOR
	RECEPTACLE, DUPLEX ISOLATED GROUND FLUSH FLOOR
	RECEPTACLE, SPECIAL FLUSH FLOOR
	RECEPTACLE, DOUBLE DUPLEX
	RECEPTACLE, SIMPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, DUPLEX TWIST LOCK, L5-15R, UNO
	RECEPTACLE, SPECIAL
	RECEPTACLE, SIMPLEX
▽	DATA OUTLET, CAT 6 OR PER SPECS
▼	TELEPHONE OUTLET
	TELEVISION OUTLET, CONFIRM CABLE TYPE PRIOR TO INSTALLATION
	DATA OUTLET & PHONE OUTLET, CAT 6 OR PER SPECS
J	JUNCTION BOX
J	JUNCTION BOX (FLUSH FLOOR MOUNTED)
JB J PB	GENERIC JUNCTION BOX OR PULL BOX AS APPLICABLE. SEE DRAWINGS FOR MORE SPECIFIC APPLICATION INFORMATION
▭	EQUIPMENT CONNECTION POINT (PROVIDED WITH EQUIPMENT)
	NON-FUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH
LA-1	HOME-RUN (WITH CIRCUIT NUMBER(S) WHERE APPLICABLE) CIRCUIT NUMBERS ARE ALSO SHOWN WITHOUT HOMERUN
	CIRCUIT, CONCEALED IN SLAB FLOOR
	CABLING/RACEWAY - CEILING OR WALL - SEE SPECS. FOR APPL CONDUIT/RACEWAY REQ'TS. (FULLY CONCEALED IN FINISHED AREAS, CONCEALED TO OVERHEAD STRUCTURE IN UNFIN. AREAS)
	CONDUIT SLEEVE
	FLUSH MOUNTED PANELBOARD
	SURFACE MOUNTED PANELBOARD
	MOTOR
	TELEPOWER POLE (TUBE-STEEL CHASE FURNISHED BY OWNER, INSTALLED BY E.C.) SEE POWER PLANS FOR FURTHER INFORMATION
	PUSH BUTTON
	BUZZER
	INDICATES GROUNDING BY E.C. PER N.E.C. ARTICLE 250 MINIMUM
TV BOX	TV BOX: PROVIDE POWER, CAT 6 AND COAX RECEPTACLES IN RECESSED 3-GANG BOX.

ABBREVIATIONS	
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
BAS	BUILDING AUTOMATION SYSTEM
BFF	BELOW FINISHED FLOOR
CU	COPPER
DDC	DIRECT DIGITAL CONTROL
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EM	EMERGENCY LIGHTING
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
GC	GENERAL CONTRACTOR
GFCI/GFI	GROUND FAULT CIRCUIT INTERRUPTER
GR	GROUND
IG	ISOLATED GROUND
HD	HAND DRYER
LTG	LIGHTING
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MFR	MANUFACTURER
MIN	MINIMUM
MLO	MAIN LUG ONLY
NL	NIGHT LIGHT
PC	PLUMBING CONTRACTOR
PNLBD	PANELBOARD
RC	REFRIGERATION CONTRACTOR
RCPTS	RECEPTACLES
REF	REFERENCE
RH	RADIANT HEATER
RTU	ROOF TOP UNIT
SC	SECURITY CAMERA
TYP	TYPICAL
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
WH	WATER HEATER
WP	WEATHER PROOF COVERPLATE
WR	WEATHER RESISTANT RECEPTACLE
XFMR	TRANSFORMER

FIRE ALARM SYMBOLS LEGEND

(SYMBOLS APPLY ONLY WHEN USED ON DRAWINGS)

SYMBOL	DESCRIPTION
F	FIRE ALARM MANUAL STATION. PROVIDE PROTECTION DEVICE.
F	ADA COMPLIANT FIRE ALARM SPEAKER WITH STROBE LIGHT, UNLESS NOTED OTHERWISE.
SD	CEILING MOUNTED SMOKE DETECTOR
SC	CEILING MOUNTED SMOKE DETECTOR/CARBON MONOXIDE COMBINATION UNIT
DD	DUCT MOUNTED SMOKE DETECTOR. FURNISHED AND CONNECTED BY ELECTRICAL CONTRACTOR, INSTALLED BY MECHANICAL CONTRACTOR. CUTTING OF DUCT, INSTALLATION OF DETECTOR, AND DETERMINATION OF SAMPLING TUBE LENGTH SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY. PROVIDE REMOTE INDICATING LIGHT WITH EACH DETECTOR.
HD	CEILING MOUNTED HEAT DETECTOR
FS	SPRINKLER SYSTEM FLOW SWITCH
TS	SPRINKLER SYSTEM TAMPER SWITCH
SD	SMOKE DAMPER. FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. CONNECTED TO FIRE ALARM SYSTEM BY ELECTRICAL CONTRACTOR.
DH	MAGNETIC DOOR HOLDER. PROVIDED BY GENERAL CONTRACTOR, INSTALLED BY ELECTRICAL CONTRACTOR. PROVIDE A SMOKE DETECTOR WITHIN 5 FT OF BOTH SIDES OF DOORS TO LOCALLY ACTIVATE DOOR UPON SMOKE SIGNAL.
RA	FIRE ALARM REMOTE GRAPHIC ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL WITH LOCAL SMOKE DETECTOR.
CO	CARBON MONOXIDE DETECTOR
S	ADA COMPLIANT FIRE ALARM STROBE LIGHT, UNLESS NOTED OTHERWISE.

GENERAL POWER/LIGHTING NOTES

A	PROVIDE SEALS AT RACEWAY PENETRATIONS AS FOLLOWS: A. FIRE RATED WALLS: SEAL PER SPECIFICATIONS FOR FIRE STOPPING. B. NEUTRALIZATION AREA: SEAL PER MECHANICAL DETAILS. C. EXTERIOR: REFER TO ARCHITECTURAL DOCUMENTS FOR SEALING REQUIREMENTS AT ALL EXTERIOR MOUNTED DEVICES, FIXTURES, ENCLOSURES, AND RACEWAY PENETRATIONS.
B	PROVIDE A SEPARATE EQUIPMENT GROUNDING CONDUCTOR (SIZE PER NEC) IN ALL CONDUIT AND RACEWAYS. CONDUIT SHALL BE SIZED PER NEC BASED ON THWN 600 VOLT COPPER SINGLE CONDUCTORS, PLUS THE EQUIPMENT GROUNDING CONDUCTOR.
C	WIRING DEVICES: DEVICE MOUNTING HEIGHTS ARE FROM FINISHED FLOOR TO CENTER OF OUTLET BOX UNLESS NOTED OTHERWISE ON PLANS. COORDINATE THE STANDARD MOUNTING HEIGHTS WITH MASONRY: A. SWITCHES +48" B. RECEPTACLES +18" C. VOICE/DATA +18" OR AS NOTED ON PLANS
D	WIRING SHALL INCLUDE FINAL CONNECTION TO ALL EQUIPMENT IN CONFORMANCE WITH EQUIPMENT SUPPLIER WIRING DIAGRAMS.
E	CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE PANELBOARD IDENTIFICATIONS SCHEDULES.
F	BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG UNLESS NOTED OTHERWISE IN SCHEDULES. WHERE 20A BRANCH CIRCUITS HAVE #8 AND LARGER WIRE SPECIFIED, #10 AWG WIRE SHALL BE USED FOR FINAL CONNECTION (15-FT MAXIMUM).
G	WHERE BRANCH CIRCUITS ARE GROUPED, SIZE CONDUIT AND DERATE CURRENT CARRYING CONDUCTORS PER NEC.
H	PROVIDE HANDLE TIES ON ALL MULTIWIRE BRANCH CIRCUITS TO MEET NEC REQUIREMENTS.
I	ALL EMERGENCY AND EXIT SIGN CIRCUITRY SHALL BE UNSWITCHED.
J	PROVIDE 4'X4', 3/4" FIRE RATED PLYWOOD BACKBOARD WHERE SHOWN ON PLANS OR AS REQUIRED FOR DATA/PHONE, CATV, OR ALARMS. COORDINATE FINAL LOCATION WITH THE RESPECTIVE CONTRACTOR.
K	PROVIDE SURGE PROTECTIVE DEVICE FOR ANY OWNER PROVIDED EQUIPMENT, SUCH AS ACCESS CONTROL SYSTEMS, COMMUNICATIONS SYSTEMS, DATA SYSTEMS, AND SECURITY SYSTEMS.
L	GROUP SWITCHES ADJACENT TO EACH OTHER IN MULTI-GANG BOX. MOUNT SWITCHES AT SAME HEIGHT AS EACH OTHER AND OTHER DEVICES NEARBY FOR A CLEAN LOOK.
M	DIMMER SWITCHES SHALL BE COMPATIBLE WITH LOAD IT'S SERVING. 0-10V LIGHT FIXTURES SHALL BE DIMMED WITH 0-10V DIMMER WITH CONTROL WIRING.
N	ELECTRICAL CONTRACTOR TO PROVIDE CONDUIT FOR ANY MECHANICAL CONTROL CABLING BETWEEN UNITS, CONTROLLERS, THERMOSTATS, ETC. COORDINATE FINAL LOCATIONS WITH MECHANICAL CONTRACTOR.
O	LOW VOLTAGE CABLING IN WALLS OR WHEN EXPOSED SHALL ALWAYS BE ROUTED IN CONDUIT. HORIZONTAL CABLING THAT IS CONCEALED SHALL BE PER OWNER, AHJ, OR ENGINEER REQUIREMENTS.

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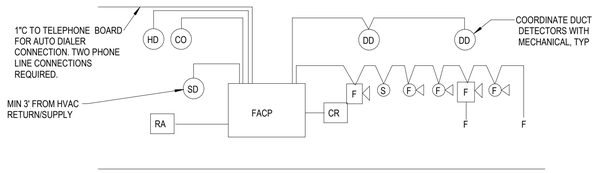
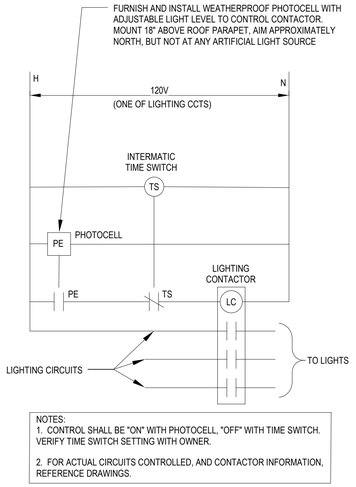


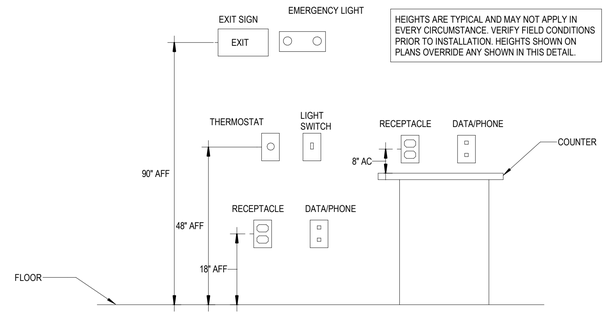
NOTES:
1. FACP SHALL HAVE A MINIMUM 24 HR BATTERY BACKUP.
2. FACP SHALL BE CONNECTED TO A UL APPROVED CENTRAL STATION.
3. FACP SHALL BE FULLY ANALOG ADDRESSABLE.
4. ZONE PER NFPA 72 AND MANUFACTURER'S RECOMMENDATIONS WITH NO SINGLE ZONE EXCEEDING 15,000 SQUARE FEET PER FLOOR.
5. FIRE ALARM ENGINEER TO PROVIDE DEFERRED SUBMITTAL CONTAINING EXACT QUANTITY AND DEVICE LOCATIONS. FIRE ALARM DEVICES ON THIS SET OF PLANS IS FOR REFERENCE ONLY.
6. PROVIDE MULTI-TEMPORAL SOUNDING CAPABILITY AT ALL AUDIO DEVICES FOR EMERGENCY NOTIFICATION.
7. THE FIRE ALARM SYSTEM MANUFACTURER SHALL PROVIDE NOTIFICATION APPLIANCE CIRCUIT (NAC) POWER EXTENDERS AS REQUIRED.
8. THE EVACUATION TONE IS REQUIRED TO BE THREE BEAT TEMPORAL PATTERN.
9. ALL STROBES WITHIN THE SAME AREA SHALL BE SYNCHRONIZED.
10. THE CIRCUIT FEEDING THE FIRE ALARM PANEL IS DEDICATED FOR THE FIRE ALARM ONLY. FACP BREAKER SHALL BE MARKED IN RED.
11. FOR ALL DEVICES, PROVIDE 3/4" CONDUIT BACK TO FACP. NO PLENUM RATED CABLE SHALL BE ALLOWED UNLESS ALLOWED BY FIRE MARSHAL.
12. CONTRACTOR SHALL INCLUDE IN THE BID CONTRACT FOR AN ADDITIONAL (5) ANNUNCIATION DEVICES, (2) PULL STATIONS, (2) SMOKE DETECTORS, (2) HEAT DETECTORS, AND RELOCATION OF (2) PULL STATIONS. THESE DISTANCES SHALL BE PRICED BASED ON 100 FT (EACH) FROM THE FACP. DEVICES SHALL NOT BE PURCHASED OR INSTALLED UNTIL DIRECTED BY OWNER OR ENGINEER.
13. FIRE ALARM INSTALLER SHALL BE NICET CERTIFIED.

3 TYPICAL FIRE ALARM RISER
NTS



NOTES:
1. CONTROL SHALL BE "ON" WITH PHOTOCELL, "OFF" WITH TIME SWITCH. VERIFY TIME SWITCH SETTING WITH OWNER.
2. FOR ACTUAL CIRCUITS CONTROLLED, AND CONTACTOR INFORMATION, REFERENCE DRAWINGS.

2 LIGHTING CONTACTOR
NTS



1 TYPICAL MOUNTING HEIGHTS
NTS

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ELECTRICAL & LIGHTING NOTES AND SYMBOLS

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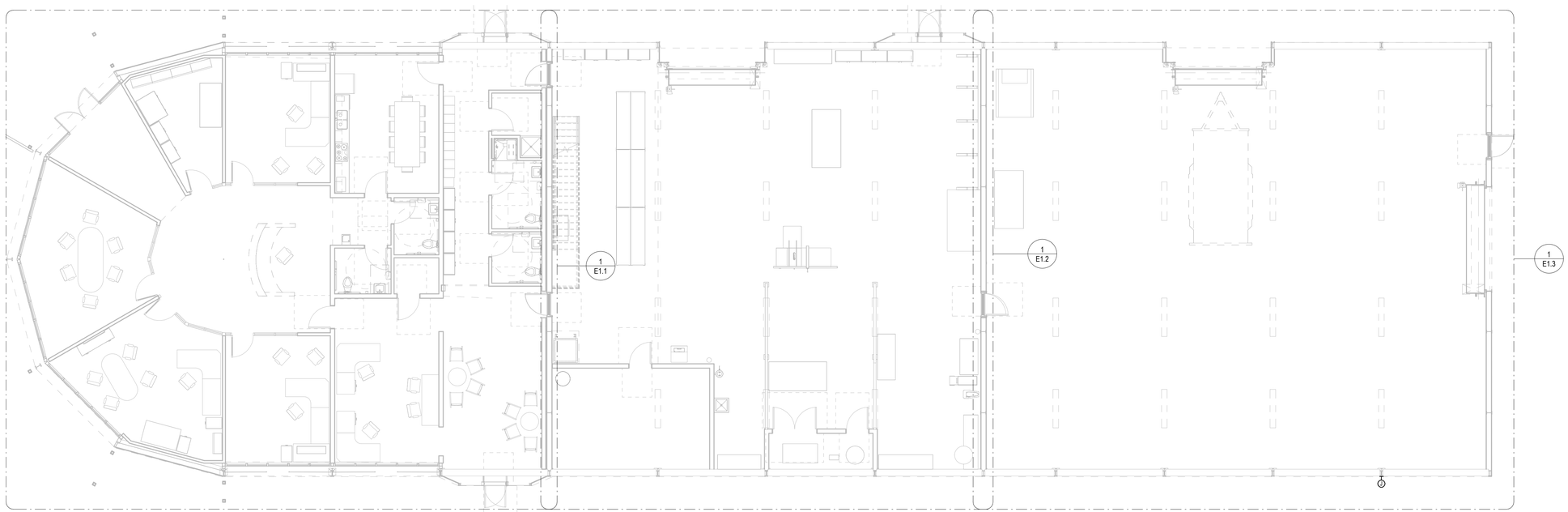

1 POWER PLAN - OVERALL
1/8" = 1'-0"

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POWER PLAN - OVERALL

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FIRE ALARM NOTES

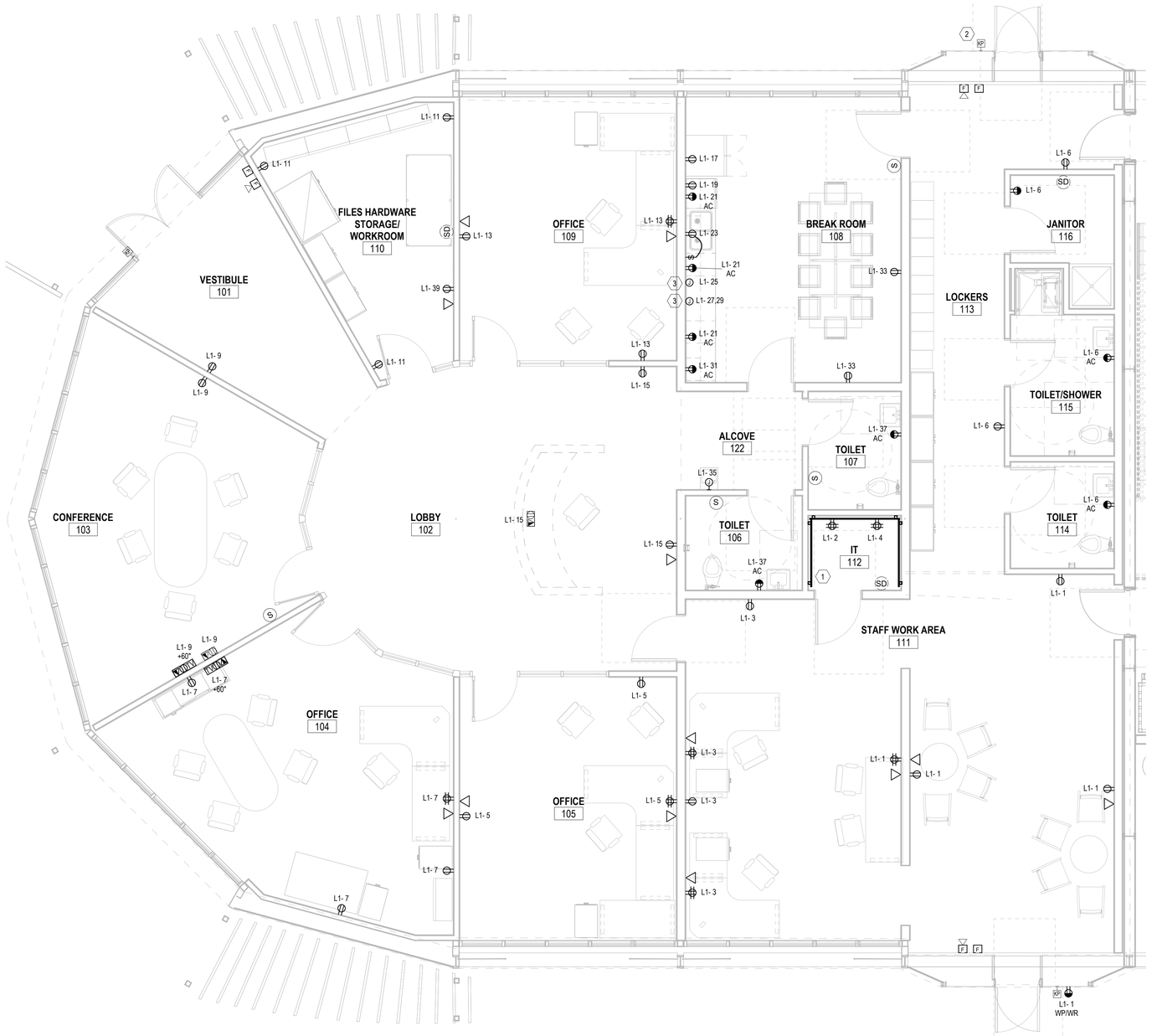
FIRE ALARM DEVICES ARE SHOWN FOR REFERENCE ONLY. THE FINAL FIRE ALARM DESIGN AND PERMITTING SHALL BE PERFORMED BY THE FIRE ALARM CONTRACTOR.

KEYNOTES:

1 PROVIDE PLYWOOD BACKBOARDS ON ALL ROOM WALLS WITH FIRE RETARDANT PLYWOOD FOR PHONE/DATA USE. PROVIDE (2) 4" CONDUITS WITH PULL-WIRE FOR DATA/PHONE UTILITY. NO HARD 90 DEGREE TURNS ARE PERMITTED, SWEEPS MUST BE USED FOR BENDS UNDERGROUND. COORDINATE WITH UTILITY FOR REQUIREMENTS AND FINAL LOCATION OF BUILDING ENTRY.

2 ACCESS CONTROLS, TYP OF ALL. COORDINATE WITH LOW VOLTAGE CONTRACTOR TO PROVIDE ALL REQUIRED INFRASTRUCTURE TO THE DEVICES.

3 COORDINATE ELECTRICAL INSTALLATION WITH MANUFACTURER DRAWINGS. PROVIDE ALL NECESSARY DEVICES INCLUDING RECEPTACLE AND GFCI PROTECTION IF REQUIRED.



1 POWER PLAN - ENLARGED OFFICE
1/4" = 1'-0"

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POWER PLAN - ENLARGED OFFICE

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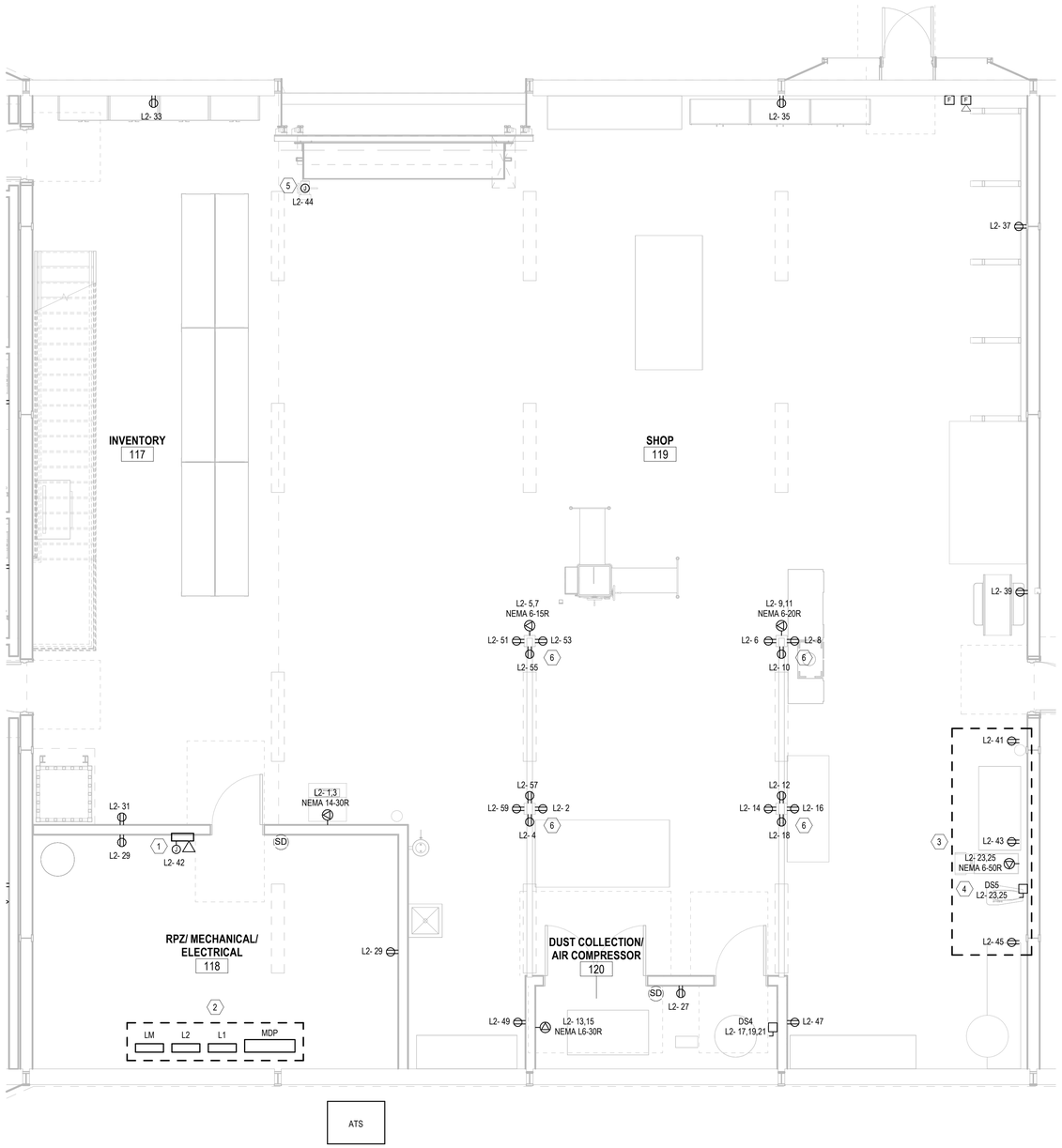

1 POWER PLAN - ENLARGED SHOP

1/4" = 1'-0"

KEYNOTES:

1 FIRE ALARM CONTROL PANEL. COORDINATE WITH FIRE ALARM CONTRACTOR AND DESIGNER FOR FINAL LOCATION AND HEIGHT. PROVIDE DEDICATED, RED, LOCKABLE CIRCUIT BREAKER ABLE TO BE LOCKED IN THE ON POSITION. FIRE ALARM DESIGN IS A DEFERRED SUBMITTAL AND SHALL BE PERFORMED BY FIRE ALARM SYSTEM PROVIDER.

2 EQUIPMENT SHALL BE MOUNTED TO FLOOR MOUNTED UNISTRUT RACK

3 ELECTRICAL DEVICES TO BE MOUNTED TO UNISTRUT 42" AFF. UNISTRUT TO SPAN SPRUNG COLUMNS.

4 DISCONNECT FOR WELDER. CIRCUIT FOR WELDER RECEPTACLE SHALL BE ROUTED THROUGH DISCONNECT.

5 GARAGE DOOR POWER. VERIFY POWER AND CONTROL REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO ROUGH-IN.

6 ALL RECEPTACLES ON COLUMN TO BE MOUNTED AT 42" AFF.

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POWER PLAN - ENLARGED SHOP

E1.2

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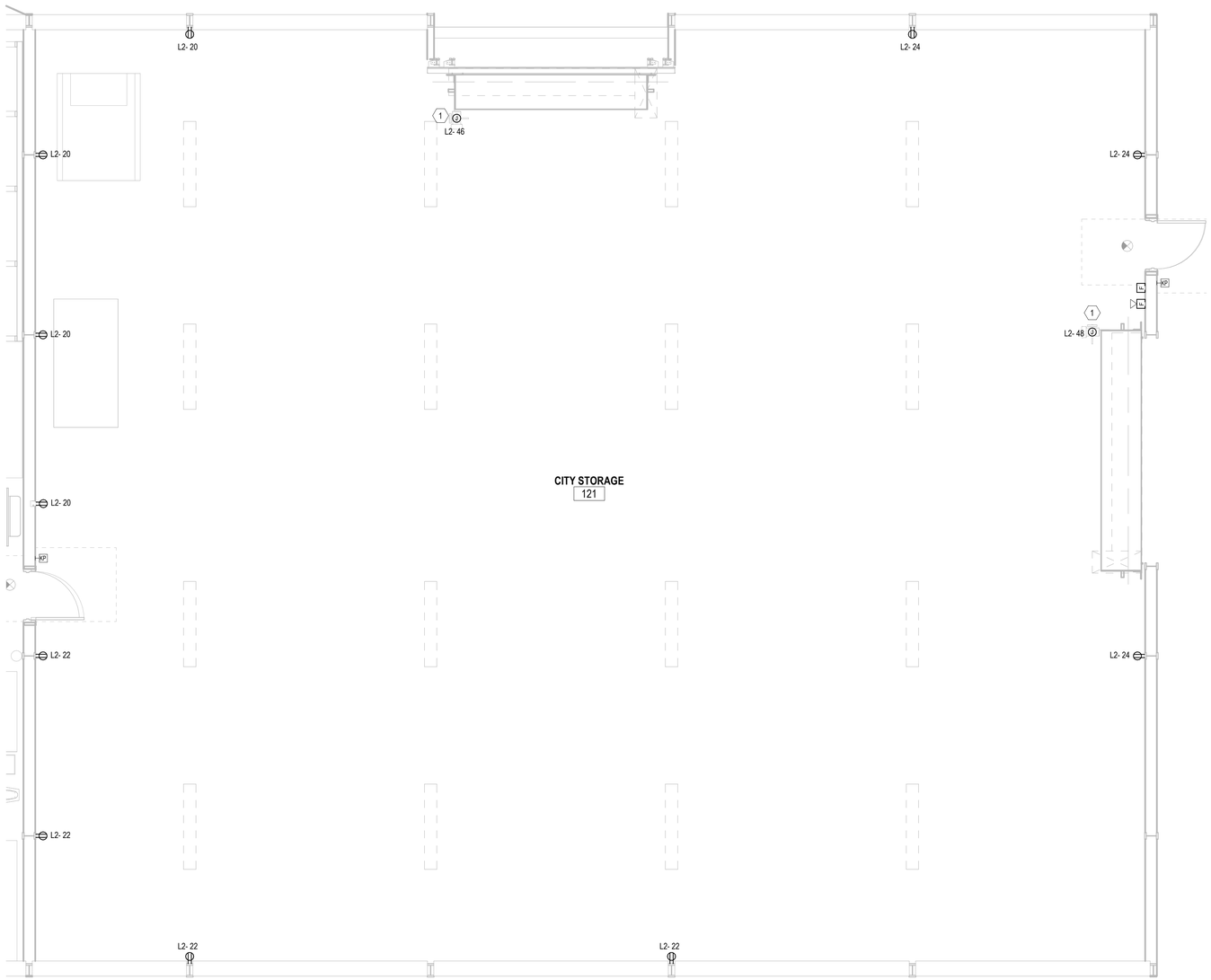
KEYNOTES:

1 GARAGE DOOR POWER. VERIFY POWER AND CONTROL REQUIREMENTS WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO ROUGH-IN.



1 POWER PLAN - ENLARGED STORAGE

1/4" = 1'-0"

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POWER PLAN - ENLARGED STORAGE

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DISCONNECT SCHEDULE

TAG	DESCRIPTION	POLES	VOLTAGE	NEMA TYPE	MOUNTING	FUSE SIZE
DS1	30A DISCONNECT	2	208 V	3R	SURFACE	N/A
DS2	30A DISCONNECT	3	208 V	3R	SURFACE	N/A
DS3	30A DISCONNECT	2	208 V	1	SURFACE	N/A
DS4	60A DISCONNECT	3	208 V	1	SURFACE	N/A
DS5	60A DISCONNECT	2	208 V	1	SURFACE	N/A

MECHANICAL AND PLUMBING GENERAL COORDINATION NOTES

- PROVIDE 1" CONDUITS WITH PULL STRINGS AND JUNCTION BOXES AS REQUIRED FROM HVAC UNITS TO CORRESPONDING INDOOR UNITS AND/OR THERMOSTATS
- COORDINATE LOCATIONS OF FIELD INSTALLED DISCONNECTS AND RECEPTACLES FOR MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECTIVE CONTRACTORS
- COORDINATE CONNECTIONS TO MECHANICAL AND PLUMBING EQUIPMENT WITH RESPECTIVE CONTRACTORS
- COORDINATE REQUIREMENTS OF MOTORIZED DAMPERS WITH MECHANICAL AND CONTROLS CONTRACTORS

KEYNOTES:

1 UNIT IS PROVIDE WITH FACTORY DISCONNECT AND POWERED CONVENIENCE RECEPTACLE

2 UNIT IS PROVIDE WITH FACTORY DISCONNECT

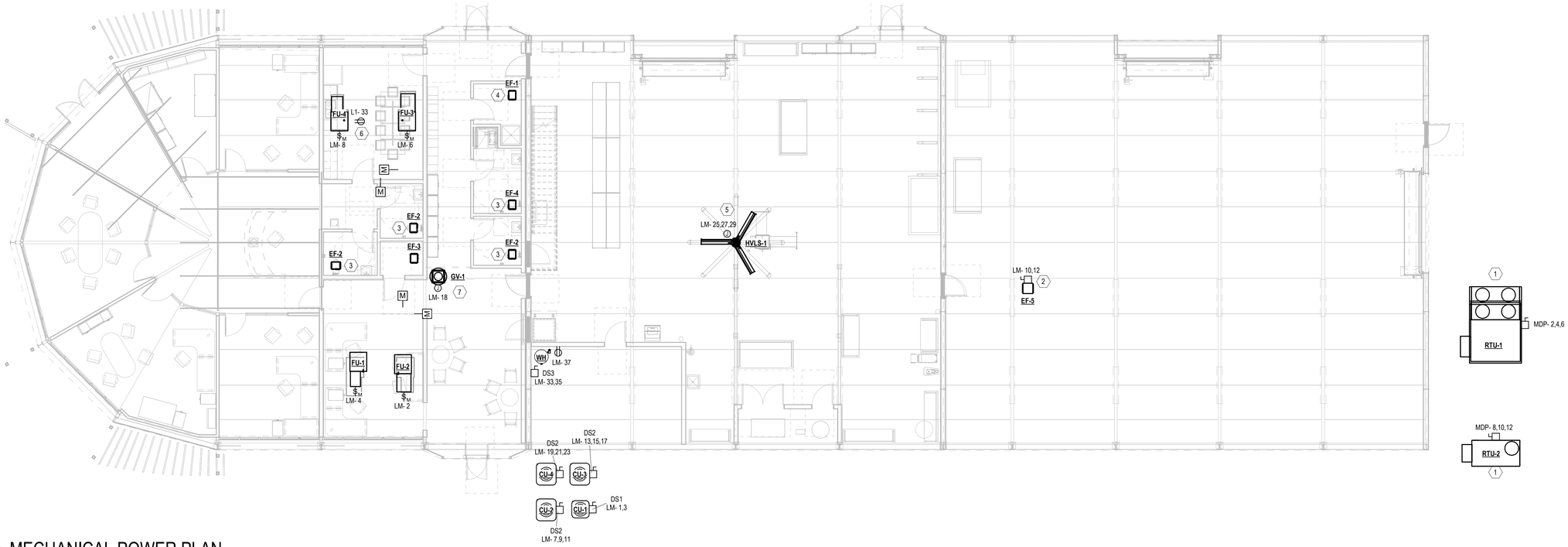
3 CIRCUIT AND SWITCH EXHAUST FAN WITH ROOM LIGHT FIXTURES

4 INTERLOCK WITH FU-4 TO OPERATE WHEN IN OCCUPIED MODE.

5 MAKE CONNECTIONS FOR HVLS PER MANUFACTURER'S INSTRUCTIONS. COORDINATE WITH FIRE ALARM CONTRACTOR TO PROVIDE CONTROLS TO SHUT DOWN FAN UPON RECEIVING A WATER FLOW SIGNAL FROM THE FIRE ALARM SYSTEM.

6 PROVIDE RECEPTACLE IN HVAC MEZZANINE SPACE FOR MAINTENANCE REQUIREMENTS

7 PROVIDE POWER TO MOTORIZED DAMPER. DAMPER TO BE INTERLOCKED SO IT IS OPEN WHEN ANY FU IS THE OCCUPIED MODE AND CLOSED OTHERWISE.



1 MECHANICAL POWER PLAN

1/8" = 1'-0"

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STATE OF ARKANSAS
REGISTERED PROFESSIONAL ENGINEER
No. 14710
DANIEL E. MILES

05/08/2026

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MECHANICAL POWER PLAN

E1.4

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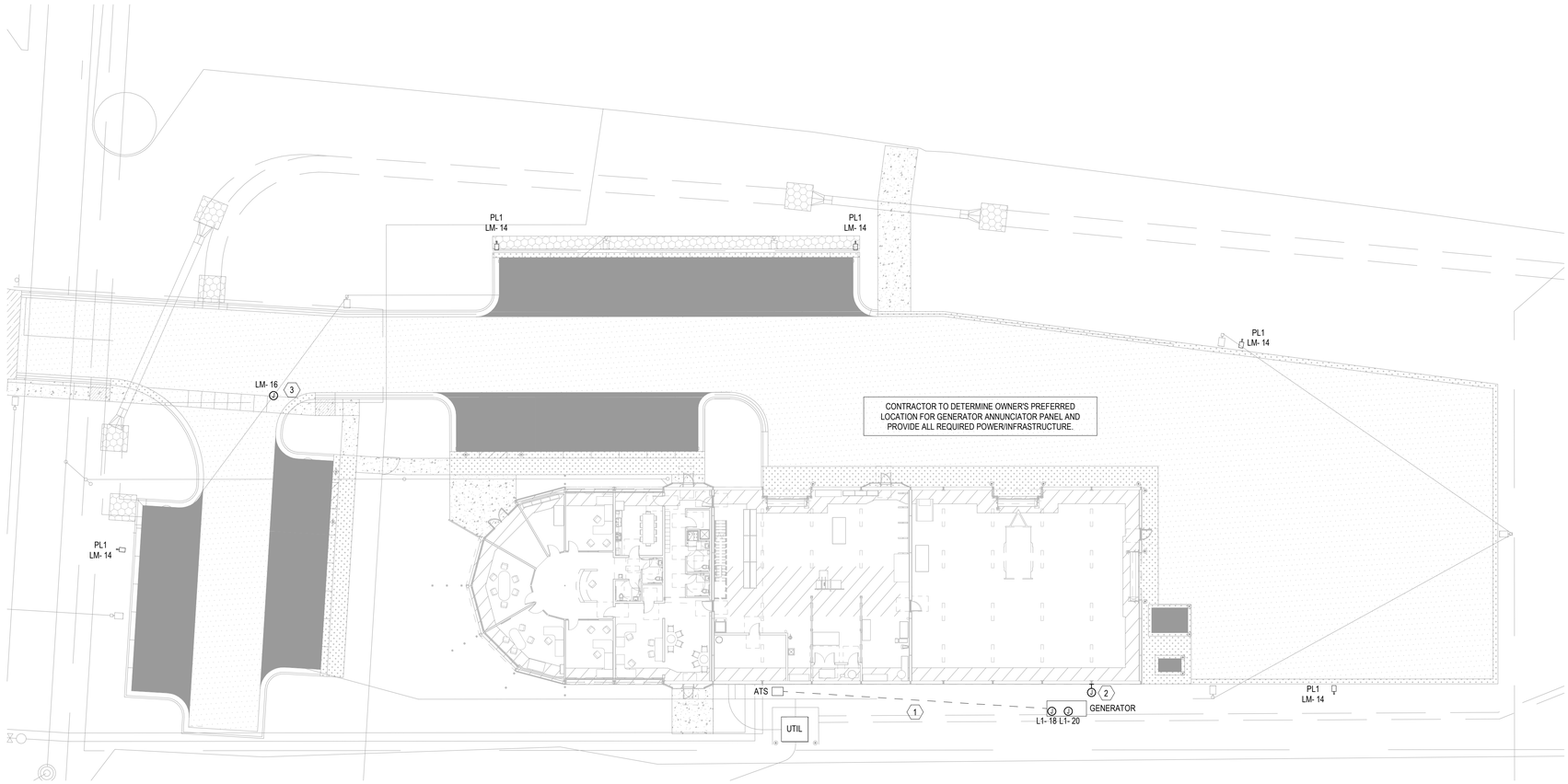
KEYNOTES:

1 PROVIDE (1) - 1" CONDUIT FROM GENERATOR TO ATS FOR COMMUNICATION CABLING

2 GENERATOR EMERGENCY STOP BUTTON. MAKE CONNECTIONS TO GENERATOR/ATS SYSTEM PER MANUFACTURER'S INSTRUCTIONS.

3 COORDINATE WITH MANUFACTURER DRAWINGS TO PROVIDE ALL ELECTRICAL INFRASTRUCTURE FOR GATE CONTROLS INCLUDING ANY LOW VOLTAGE REQUIREMENTS.



1 ELECTRICAL PLAN - SITE
1" = 20'-0"

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ELECTRICAL PLAN - SITE

E1.5

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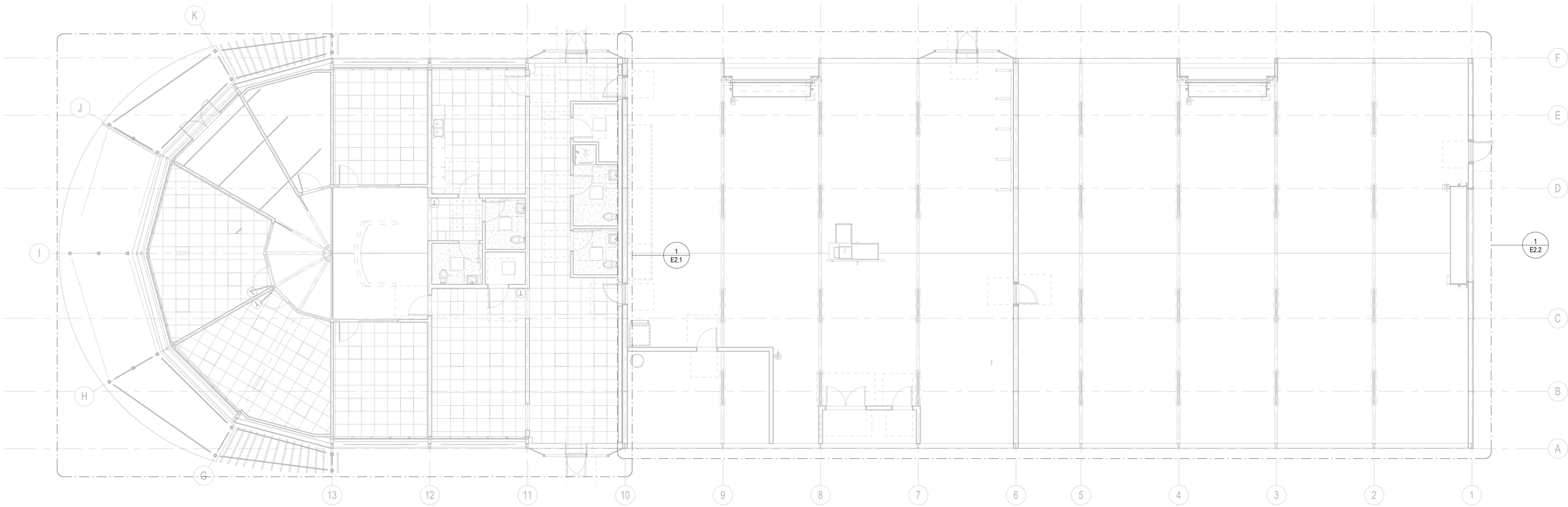
LIGHTING FIXTURE SCHEDULE

FIXTURE TYPE	DESCRIPTION	MANUFACTURER	MODEL	LOAD	VOLTAGE	COLOR TEMPERATURE	LAMP TYPE	LUMENS	MOUNTING TYPE
A1	2FT X 2FT TROFFER	COOPER METALUX	22RLN-LD5-35-UNV-L840-CD1-U	31 VA	UNV	4000K	LED 0-10V DIMMING	3558	RECESSED
B1	2FT X 2FT TROFFER - FLANGE	COOPER METALUX	22RLN-LD5-35-UNV-L840-CD1-U WITH DF-22W-U	31 VA	UNV	4000K	LED 0-10V DIMMING	3558	RECESSED
D1	4IN DOWNLIGHT	COOPER HALO	SMX4RLSFS010	7 VA	UNV	4000K	LED 0-10V DIMMING	600	SURFACE
E1	EMERGENCY LIGHT	COOPER SURELITES	SEL25	2 VA	UNV	N/A	LED	N/A	SURFACE
G1	4FT STRIP	COOPER METALUX	4SLSTPSLC-UNV	48 VA	UNV	4000K	LED 0-10V DIMMING	6045	SURFACE/SUSPENDED
L8	8FT LINEAR PENDANT	STARTEK	SLIMDI-8-750-1000-WD-BW-40K-80-FINISH-ACX10-U-1C	134 VA	UNV	4000K	LED 0-10V DIMMING	14000	SUSPENDED
L20	20FT LINEAR PENDANT	STARTEK	SLIMDI-20-750-1000-WD-BW-40K-80-FINISH-ACX10-U-1C	335 VA	UNV	4000K	LED 0-10V DIMMING	35000	SUSPENDED
PL1	LED AREA LITE - POLE MOUNTED	COOPER LIGHTING	GLEON-SA3-C-740-U-T4FT-HSS	166 VA	120-277V	4000K	INTEGRAL LED	21725	POLE
WP1E	WALL PACK - EMERGENCY	BARRON LIGHTING	WLZ2-CP-SD-VS-CP-FINISH-BB	45 VA	UNV	4000K	LED	6870	SURFACE
X1	EXIT SIGN	COOPER SURELITES	EUS70X	2 VA	UNV	N/A	LED	N/A	UNIVERSAL

ALL LIGHT FIXTURES ARE BASIS OF DESIGN. APPROVAL FROM OWNER REQUIRED PRIOR TO PURCHASING ANY LIGHT FIXTURE. IF ALTERNATE LIGHT FIXTURES ARE CHOSEN, THEY SHALL BE APPROVED BY ENGINEER AS WELL AS OWNER TO BE CONFIRMED AS AN ACCEPTABLE EQUAL. DISTANCES BETWEEN EMERGENCY LIGHTS MAY NEED TO BE REVISED IF DIFFERENT FIXTURE IS SELECTED THAN SHOWN. FOLLOW MANUFACTURER SPACING RECOMMENDATIONS FOR EMERGENCY FIXTURES. FINAL FINISH SELECTIONS TO BE APPROVED BY ARCHITECT.



1 LIGHTING PLAN - OVERALL
1/8" = 1'-0"

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LIGHTING PLAN - OVERALL

E2.0

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KEYNOTES:

1 REFER TO ARCHITECTURAL PLANS FOR MOUNTING OF TYPE L8 AND L20 FIXTURES

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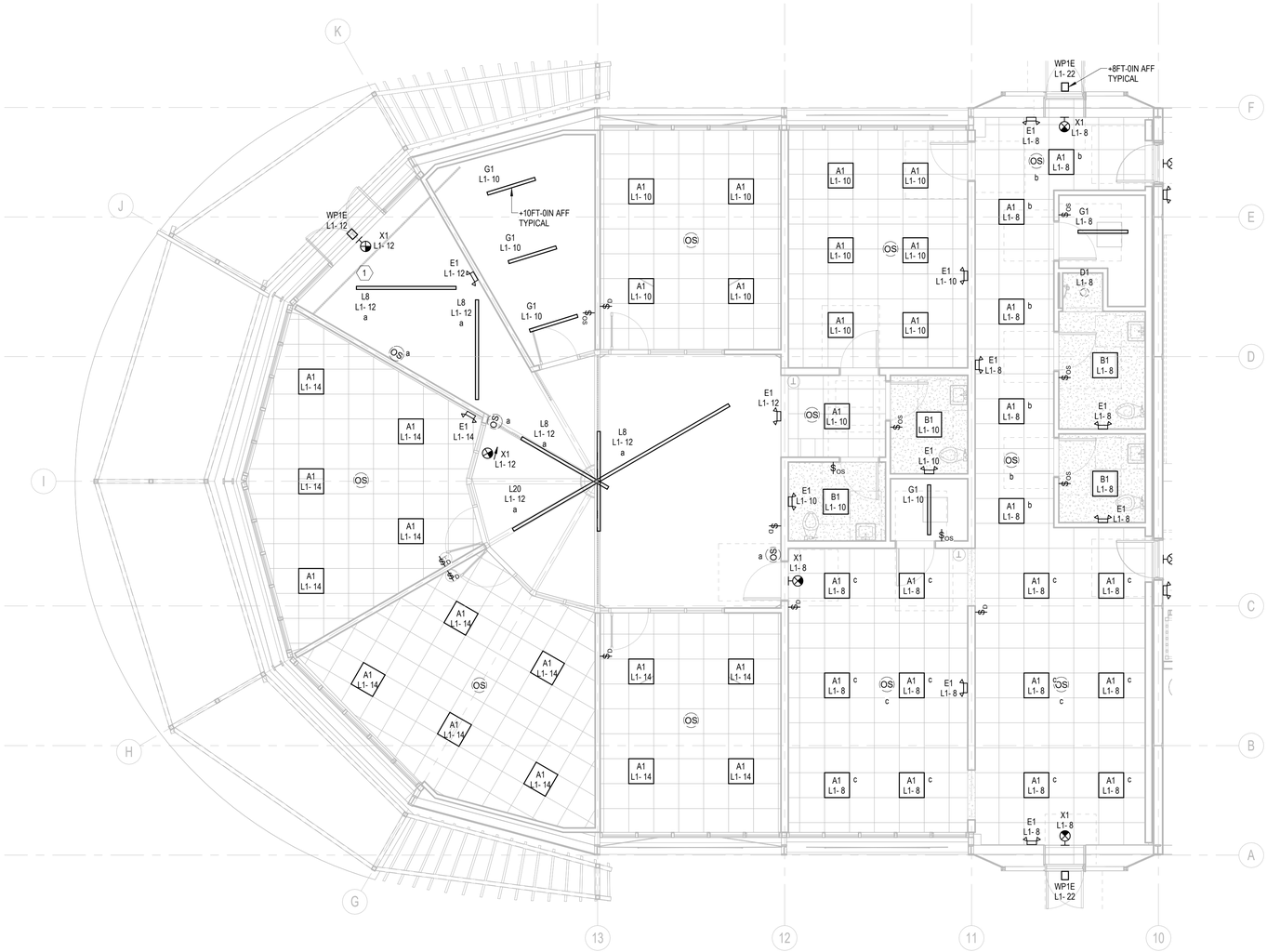
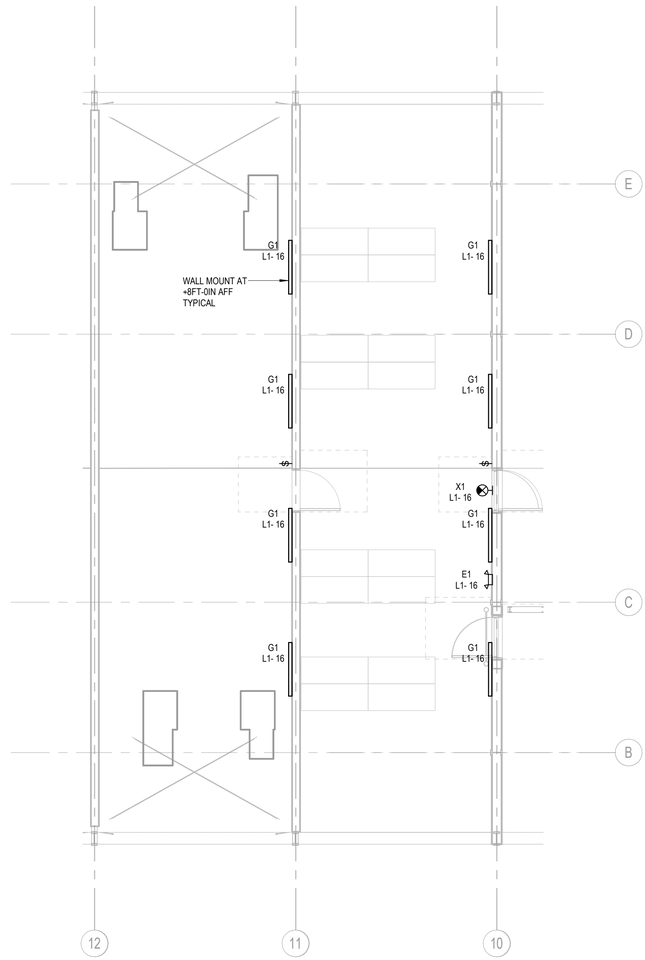


1 LIGHTING PLAN - ENLARGED OFFICE
3/16" = 1'-0"



2 LIGHTING PLAN - EQUIPMENT PLATFORM
3/16" = 1'-0"

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LIGHTING PLAN - ENLARGED OFFICE AND MEZZANINE

E2.1

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KEYNOTES:

1 LIGHTING PROVIDED WITH SPRUNG STRUCTURE. REFER TO SPRUNG LED LIGHTING ELECTRICAL INSTRUCTIONS FOR EC PROVIDED MATERIALS AND INSTALLATION REQUIRMENTS. LIGHTING IS CONTROLLED VIA APP FOR SCHEDULED ON/OFF CONTROL.

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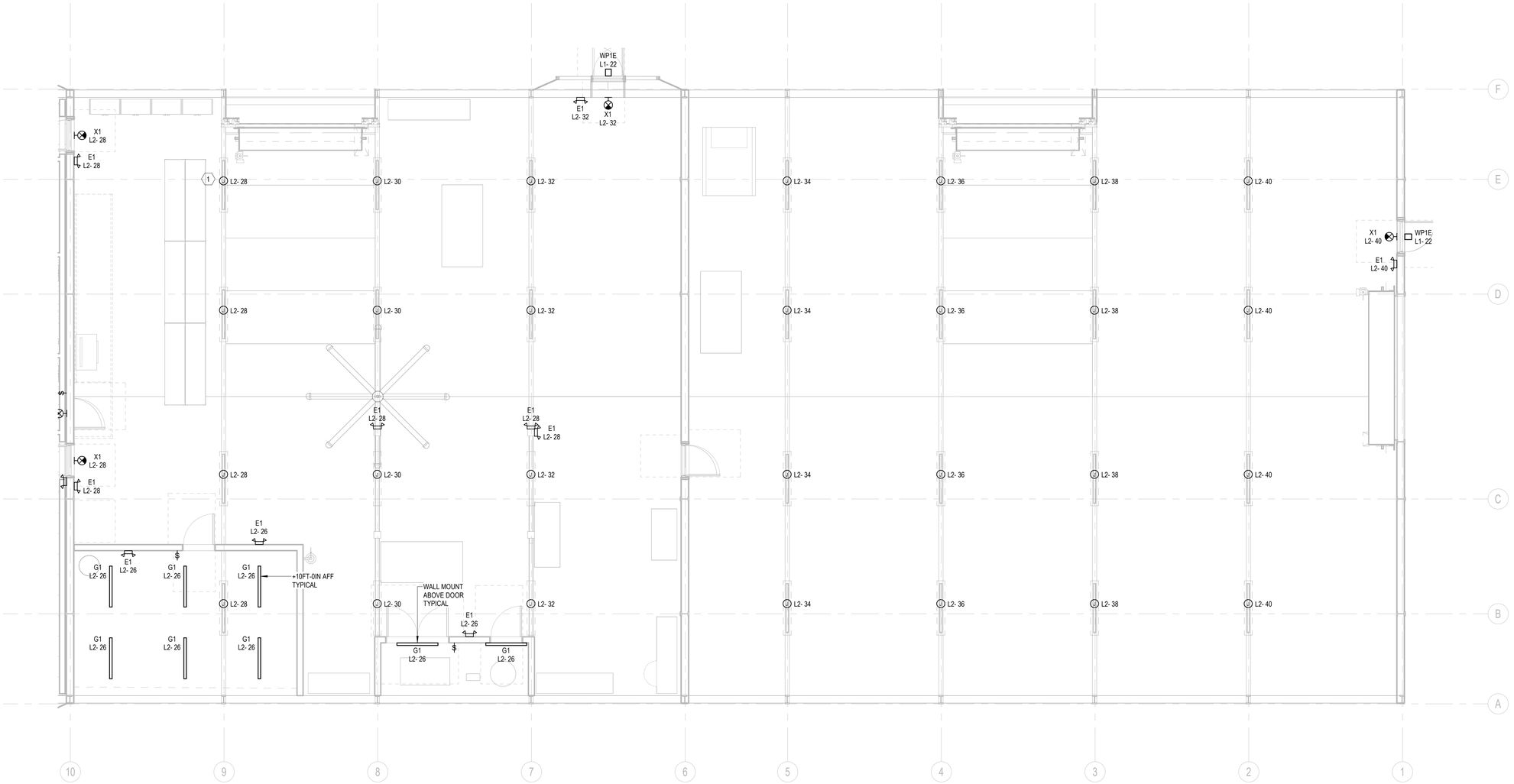

1 LIGHTING PLAN - ENLARGED SHOP AND OFFICE

3/16" = 1'-0"

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LIGHTING PLAN - ENLARGED SHOP AND STORAGE

E2.2

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PANELBOARD: MDP

NEW

LOCATION:
SUPPLY FROM: ATS
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 800 A
REQUIREMENTS: GROUND BAR

NOTES:
INTEGRAL SPD

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)		B (kVA)		C (kVA)		Wire	Poles	Trip	Circuit Description	CKT
1	L1 (8)	100	3		7.90	8.53					4	3	80	RTU-1	2
3	--	--	--	--			10.31	8.53			--	--	--	--	4
5	--	--	--	--					9.56	8.53	--	--	--	--	6
7	L2 (8)	400	3		31.76	3.84					8	3	50	RTU-2	8
9	--	--	--	--			28.65	3.84			--	--	--	--	10
11	--	--	--	--					29.65	3.84	--	--	--	--	12
13	LM (8)	200	3		12.14	--					--	1	--	SPACE	14
15	--	--	--	--			13.48	--			--	1	--	SPACE	16
17	--	--	--	--					11.81	--	--	1	--	SPACE	18
19	SPACE	--	1	--	--	--					--	1	--	SPACE	20
21	SPACE	--	1	--			--	--			--	1	--	SPACE	22
23	SPACE	--	1	--					--	--	--	1	--	SPACE	24
		Total Load:			64161 VA		64801 VA		63396 VA						
		Total Amps:			536 A		541 A		528 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	69576 VA	100.00%	69576 VA		
LIGHTS	10236 VA	125.00%	12795 VA	**Total Conn. Load:**	192357 VA
MOTORS	1000 VA	125.00%	1250 VA	**Total Feeder Load:**	195035 VA
NON-CONTINUOUS	92791 VA	100.00%	92791 VA	**Total Connected Current:**	534 A
Other	180 VA	100.00%	180 VA	**Total Feeder Current:**	541 A
RECEPTS	10260 VA	98.73%	10130 VA		
WELD	8320 VA	100.00%	8320 VA		

(XX-X) EP ONE-LINE FEEDER SCHEDULE

FEEDER TYPE	COPPER FEEDER
100-4	1 - 1 1/4"C, 4#3, 1#8GR
200-4	1 - 2"C, 4#3/0, 1#6GR
400-4	2 - 2"C, 4#3/0, 1#3GR EACH
855-4	3 - 2 1/2"C, 4-300KCMIL, 1#1/0GR EACH
S855-4	3 - 3"C, 4-300KCMIL EACH

GROUND WIRE SIZING CHART

BRKR AMPS		WIRE SIZE				
15-20	PHASE	12	10	8	6	4
	GROUND	12	10	8	6	4
25-30	PHASE	10	8	6	4	3
	GROUND	10	8	6	4	3
35-50	PHASE	8	6	4	3	2
	GROUND	10	8	4	4	4
60	PHASE	6	4	3	2	1
	GROUND	10	6	6	4	4
70	PHASE	6	4	3	2	1
	GROUND	8	4	4	3	2
80-90	PHASE	4	3	2	1	1/0
	GROUND	8	6	4	4	3
100	PHASE	3	2	1	1/0	2/0
	GROUND	8	6	4	4	3
PER NEC 250.122(B)						

CONDUIT SIZED BASED ON CONDUCTOR PROPERTIES LISTED IN THE CURRENT NEC EDITION, CHAPTER, 9, TABLES 5 AND 5A, AND CONDUIT AREAS LISTED CHAPTER 9, TABLE 4 FOR EMT WITH 40% FILL. OTHER CONDITIONS MAY REQUIRE A LARGER CONDUIT, SUCH AS UNDERGROUND PVC, SIZED FOR NEC.

COORDINATE LUG SIZE, TYPE, AND AMOUNT WITH EQUIPMENT MANUFACTURER PRIOR TO FEEDER INSTALLATION.

PANELBOARD NOTES (#)

NOTE IS IN CIRCUIT DESCRIPTION IN PARENTHESIS

1.	TERMINATE GROUND ON ISOLATED GROUND BUS.
2.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4.	GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
5.	GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
6.	CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7.	REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8.	REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9.	FACTORY WIRED TO LOAD.
10.	THRU CONTACTOR FOR TIMED CONTROL.
11.	LOAD IS EXISTING TO REMAIN.
12	SHUNT TRIP BREAKER
13	EXISTING LOAD IS RELOCATED TO NEW PANEL
(E)	EXISTING TO REMAIN
(N)	NEW CIRCUIT

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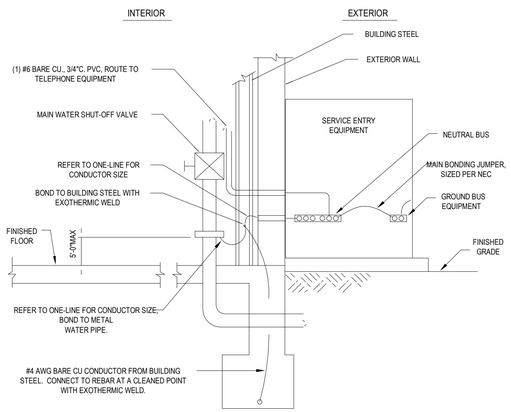


Notes:

1. GROUNDING ELECTRODE SYSTEM INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH LOCAL CODES AND/OR AUTHORITY HAVING JURISDICTION.
2. EXTERIOR SWITCHGEAR SHOWN AS AN EXAMPLE AND MAY NOT APPLY. SAME WIRING SHALL APPLY TO INTERIOR SWITCHGEAR OR SERVICE ENTRY EQUIPMENT.

3 GROUNDING ELECTRODE DETAIL
NTS

EQUIPMENT LABELS

ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A LABEL APPLIED TO WARN OF POTENTIAL ARC FLASH HAZARDS, REFER TO ARC FLASH DETAIL.

WARNING

ARC FLASH AND SHOCK HAZARD. APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIRED.

NOTES:

A. ALL SWITCHBOARDS AND PANELBOARDS SHALL HAVE A COMMERCIALLY PRODUCED PERMANENT LABEL APPLIED, SIMILAR TO THE ABOVE, TO WARN OF POTENTIAL ARC FLASH HAZARDS, IN ACCORDANCE WITH NEC 110.16 AND NFPA 70E.

B. LABELING MAY BE COMPLETED BY EQUIPMENT MANUFACTURER, EQUIPMENT VENDOR/SUPPLIER, OR THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THAT ALL SWITCHBOARDS AND PANELBOARDS ARE PROPERLY LABELED IN THE FIELD.

2 ARC FLASH DETAIL
NTS

IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL SERVICE AND METERING REQUIREMENTS AND SPECIFICATIONS WITH UTILITY COMPANY PRIOR TO BID AND SHALL BE RESPONSIBLE FOR ALL MATERIAL, WORK, AND FEES ASSOCIATED WITH IT. ANY TEMPORARY CONSTRUCTION SERVICES SHALL BE PROVIDED BY ELECTRICAL CONTRACTOR AS NECESSARY.

COORDINATE ALL NECESSARY WORK, FINAL LOCATIONS, AND RESPONSIBILITY WITH UTILITY COMPANY FOR TRANSFORMER, METER, AND CT INSTALLATION. GROUND METER PER UTILITY REQUIREMENTS.

PROVIDE LABEL AT SERVICE ENTRANCE EQUIPMENT IDENTIFYING THE MAXIMUM AVAILABLE FAULT CURRENT PER NEC 110.24. A LABEL SHOULD ALSO IDENTIFY THE SOURCE OF SUPPLY FOR EACH PANEL PER NEC 408.4

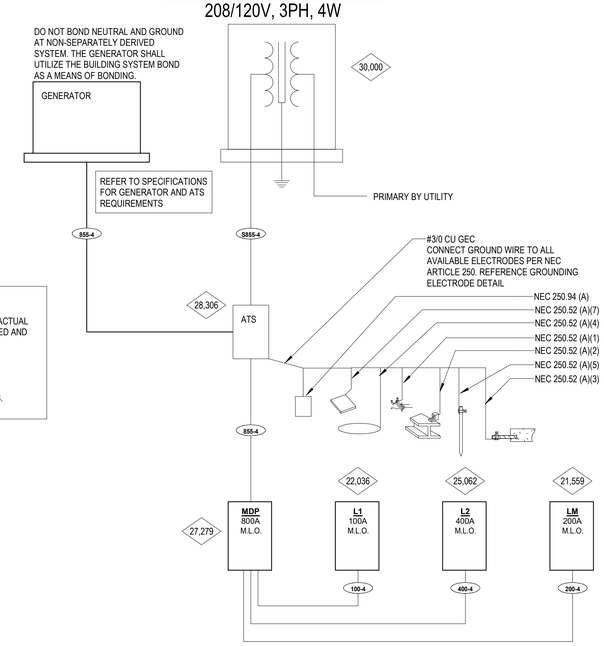
PROVIDE 4" HIGH FORMED CONCRETE HOUSEKEEPING PAD FOR ALL FLOOR MOUNTED ELECTRICAL GEAR.

XX,XXX — REPRESENTS THE AVAILABLE FAULT CURRENT IN RMS SYMMETRICAL AMPERES AT THE RESPECTIVE TRANSFORMER, PANELBOARD, OR EQUIPMENT. CONFIRM ACTUAL NUMBERS FROM UTILITY ONCE SERVICE HAS BEEN PLANNED AND ADJUST EQUIPMENT AIC RATINGS ACCORDINGLY.

FAULT CURRENT CALCULATIONS ARE BASED ON AVAILABLE FAULT CURRENT OF 42,500 AMPS AT SECONDARY TERMINALS OF TRANSFORMER USING AN INFINITE PRIMARY AND ASSUMED TRANSFORMER RATINGS.

NEW UTILITY TRANSFORMER
208/120V, 3PH, 4W

DO NOT BOND NEUTRAL AND GROUND AT NON-SEPARATELY DERIVED SYSTEM. THE GENERATOR SHALL UTILIZE THE BUILDING SYSTEM BOND AS A MEANS OF BONDING.



1 ELECTRICAL ONE-LINE DIAGRAM
NTS

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ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

E3.0

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PANELBOARD: L1

NEW

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 100 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)		B (kVA)		C (kVA)		Wire	Poles	Trip	Circuit Description	CKT
1	RECEPTS STAFF WORK	20	1	12	0.90	1.92					12	1	20	IT EQUIPMENT	2
3	RECEPTS STAFF WORK	20	1	12			0.72	1.92			12	1	20	IT EQUIPMENT	4
5	RECEPTS OFFICE	20	1	12					0.54	0.90	12	1	20	RECEPTS LOCKERS/JAN/RR	6
7	RECEPTS OFFICE	20	1	12	0.90	0.66					12	1	20	LIGHTS	8
9	RECEPTS CONFERENCE	20	1	12			0.72	0.60			12	1	20	LIGHTS	10
11	RECEPTS STORAGE	20	1	12					0.54	0.92	12	1	20	LIGHTS	12
13	RECEPTS OFFICE	20	1	12	0.54	0.44					12	1	20	LIGHTS	14
15	RECEPTS LOBBY	20	1	12			0.36	0.39			12	1	20	LIGHTS	16
17	REFRIGERATOR (4)	20	1	12					1.00	0.50	10	1	20	GENERATOR BATTERY CHARGER (6)	18
19	DISHWASHER (4)	20	1	12	1.00	0.50					10	1	20	GENERATOR HEATER (6)	20
21	RECEPTS BREAKROOM COUNTER	20	1	12			0.54	0.18			12	1	20	EXTERIOR BUILDING LIGHTING (10)	22
23	GARBAGE DISPOSAL (4)	20	1	12					0.50	--	--	1	--	SPACE	24
25	HOOD	20	1	12	0.50	--					--	1	--	SPACE	26
27	COOKTOP	50	2	8			4.16	--			--	1	--	SPACE	28
29	--	--	--	--					4.16	--	--	1	--	SPACE	30
31	RECEPTS BREAKROOM COUNTER	20	1	12	0.18	--					--	1	--	SPACE	32
33	RECEPTS BREAKROOM	20	1	12			0.54	--			--	1	--	SPACE	34
35	DRINKING FOUNTAIN (4)	20	1	12					0.50	--	--	1	--	SPACE	36
37	RECEPTS RR	20	1	12	0.36	--					--	1	--	SPACE	38
39	COPIER	20	1	12			0.18	--			--	1	--	SPACE	40
41	SPACE	--	1	--					--	--	--	1	--	SPACE	42
			Total Load:		7898 VA		10309 VA		9564 VA						
			Total Amps:		66 A		88 A		82 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
LIGHTS	3191 VA	125.00%	3989 VA		
NON-CONTINUOUS	16660 VA	100.00%	16660 VA	**Total Conn. Load:**	27771 VA
Other	180 VA	100.00%	180 VA	**Total Feeder Load:**	28569 VA
RECEPTS	7740 VA	100.00%	7740 VA	**Total Connected Current:**	77 A
				Total Feeder Current:	79 A

PANELBOARD: LM

NEW

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 200 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A (kVA)		B (kVA)		C (kVA)		Wire	Poles	Trip	Circuit Description	CKT
1	CU-1	20	2	12	1.46	1.21					12	1	15	FU-2	2
3	--	--	--	--			1.46	0.92			12	1	15	FU-1	4
5	SPACE	--	1	--					--	1.21	12	1	15	FU-3	6
7	CU-2	30	3	10	2.16	1.21					12	1	15	FU-4	8
9	--	--	--	--			2.16	0.27			12	2	15	EF-5	10
11	--	--	--	--					2.16	0.27	--	--	--	--	12
13	CU-3	30	3	10	2.16	0.83					#10	1	20	SITE LIGHTING (6,10)	14
15	--	--	--	--			2.16	1.00			#10	1	20	GATE CONTROLS (2,6)	16
17	--	--	--	--					2.16	0.50	12	1	20	GV-1	18
19	CU-4	30	3	10	2.16	--					--	1	--	SPACE	20
21	--	--	--	--			2.16	--			--	1	--	SPACE	22
23	--	--	--	--					2.16	--	--	1	--	SPACE	24
25	HVLS-1 (12)	20	3	12	0.84	--					--	1	--	SPACE	26
27	--	--	--	--			0.84	--			--	1	--	SPACE	28
29	--	--	--	--					0.84	--	--	1	--	SPACE	30
31	SHUNT TRIP SPACE FOR HVLS-1	--	1	--	--	--					--	1	--	SPACE	32
33	WATER HEATER	25	2	10			2.50	--			--	1	--	SPACE	34
35	--	--	--	--					2.50	--	--	1	--	SPACE	36
37	CIRCULATION PUMP	20	1	12	0.18	--					--	1	--	SPACE	38
39	SPACE	--	1	--			--	--			--	1	--	SPACE	40
41	SPACE	--	1	--					--	--	--	1	--	SPACE	42
			Total Load:		12138 VA		13476 VA		11808 VA						
			Total Amps:		102 A		113 A		98 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
HVAC	32468 VA	100.00%	32468 VA		
LIGHTS	830 VA	125.00%	1038 VA	**Total Conn. Load:**	37419 VA
MOTORS	1000 VA	125.00%	1250 VA	**Total Feeder Load:**	37856 VA
NON-CONTINUOUS	3022 VA	100.00%	3022 VA	**Total Connected Current:**	104 A
RECEPTS	180 VA	100.00%	180 VA	**Total Feeder Current:**	105 A

PANELBOARD: L2

NEW

LOCATION:
SUPPLY FROM: MDP
MOUNTING: SURFACE
ENCLOSURE: NEMA 1

VOLTS: 208/120V-3PH,4W
PHASES: 3
WIRES: 4

A.I.C. RATING: FULLY (7)
MAINS TYPE: M.L.O.
MAINS RATING: 400 A
REQUIREMENTS: GROUND BAR

NOTES:

CKT	Circuit Description	Trip	Poles	Wire	A		B		C		Wire	Poles	Trip	Circuit Description	CKT
1	WASHER/DRYER	30	2	10	2.50	1.92					12	1	20	120V 20A SHOP RECEPT	2
3	--	--	--	--			2.50	1.92			12	1	20	120V 20A SHOP RECEPT	4
5	TABLE SAW	15	2	12					1.35	1.92	12	1	20	120V 20A SHOP RECEPT	6
7	--	--	--	--	1.35	1.92					12	1	20	120V 20A SHOP RECEPT	8
9	208V 20A RECEPT	20	2	12			1.66	1.92			12	1	20	120V 20A SHOP RECEPT	10
11	--	--	--	--					1.66	1.92	12	1	20	120V 20A SHOP RECEPT	12
13	DUST COLLECTOR	30	2	10	1.56	1.92					12	1	20	120V 20A SHOP RECEPT	14
15	--	--	--	--			1.56	1.92			12	1	20	120V 20A SHOP RECEPT	16
17	AIR COMPRESSOR	40	3	8					3.04	1.92	12	1	20	120V 20A SHOP RECEPT	18
19	--	--	--	--	3.04	0.72					12	1	20	STORAGE RECEPTS	20
21	--	--	--	--			3.04	0.72			12	1	20	STORAGE RECEPTS	22
23	WELDER	50	2	8					4.16	0.54	12	1	20	STORAGE RECEPTS	24
25	--	--	--	--	4.16	0.39					12	1	20	LIGHTS RPZ/MECH/ELEC/DC/AC	26
27	AIR DRYER	20	1	12			0.27	0.85			12	1	20	LIGHTS SHOP	28
29	RECEPTS	20	1	12					0.36	0.84	12	1	20	LIGHTS SHOP	30
31	120V 20A SHOP RECEPT	20	1	12	1.92	0.84					12	1	20	LIGHTS SHOP	32
33	120V 20A SHOP RECEPT	20	1	12			1.92	0.84			12	1	20	LIGHTS STORAGE	34
35	120V 20A SHOP RECEPT	20	1	12					1.92	0.84	12	1	20	LIGHTS STORAGE	36
37	120V 20A SHOP RECEPT	20	1	12	1.92	0.84					12	1	20	LIGHTS STORAGE	38
39	120V 20A SHOP RECEPT	20	1	12			1.92	0.84			12	1	20	LIGHTS STORAGE	40
41	120V 20A SHOP RECEPT	20	1	12					1.92	0.50	12	1	20	FACP (3)	42
43	120V 20A SHOP RECEPT	20	1	12	1.92	1.00					12	1	20	GARAGE DOOR (2)	44
45	120V 20A SHOP RECEPT	20	1	12			1.92	1.00			10	1	20	GARAGE DOOR (2,6)	46
47	120V 20A SHOP RECEPT	20	1	12					1.92	1.00	10	1	20	GARAGE DOOR (2,6)	48
49	120V 20A SHOP RECEPT	20	1	12	1.92	--					--	1	--	SPACE	50
51	120V 20A SHOP RECEPT	20	1	12			1.92	--			--	1	--	SPACE	52
53	120V 20A SHOP RECEPT	20	1	12					1.92	--	--	1	--	SPACE	54
55	120V 20A SHOP RECEPT	20	1	12	1.92	--					--	1	--	SPACE	56
57	120V 20A SHOP RECEPT	20	1	12			1.92	--			--	1	--	SPACE	58
59	120V 20A SHOP RECEPT	20	1	12					1.92	--	--	1	--	SPACE	60
			Total Load:		31760 VA		28646 VA		29654 VA						
			Total Amps:		266 A		239 A		248 A						

Load Classification	Connected Load	Demand Factor	Demanded Load	Panel Totals	
LIGHTS	6292 VA	125.00%	7865 VA		
NON-CONTINUOUS	73109 VA	100.00%	73109 VA	**Total Conn. Load:**	90061 VA
RECEPTS	2340 VA	100.00%	2340 VA	**Total Feeder Load:**	91634 VA
WELD	8320 VA	100.00%	8320 VA	**Total Connected Current:**	250 A
				Total Feeder Current:	254 A

PANELBOARD NOTES (#)

NOTE IS IN CIRCUIT DESCRIPTION IN PARENTHESIS

1.	TERMINATE GROUND ON ISOLATED GROUND BUS.
2.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-OFF FOR MAINTENANCE).
3.	INSTALL LOCKING DEVICE FURNISHED WITH PANELBOARD (LOCK-ON FOR CRITICAL LOAD).
4.	GFI BREAKER FOR PERSONNEL PROTECTION (5 mA).
5.	GFI BREAKER FOR EQUIPMENT PROTECTION (30 mA).
6.	CONDUCTOR SIZE SHOWN IN PANEL SCHEDULE HAS BEEN INCREASED FOR VOLTAGE DROP. SIZE EQUIPMENT GROUNDING CONDUCTOR PROPORTIONALLY PER NEC. REFERENCE GROUND WIRE SIZING CHART.
7.	REFER TO ONE-LINE DIAGRAM FOR AVAILABLE FAULT CURRENT FOR INTERRUPT RATINGS.
8.	REFER TO ONE-LINE DIAGRAM FOR WIRE SIZES.
9.	FACTORY WIRED TO LOAD.
10.	THRU CONTACTOR FOR TIMED CONTROL.
11.	LOAD IS EXISTING TO REMAIN.
12	SHUNT TRIP BREAKER
13	EXISTING LOAD IS RELOCATED TO NEW PANEL
(E)	EXISTING TO REMAIN
(N)	NEW CIRCUIT

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05/08/2026

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ELECTRICAL SCHEDULES

E3.1

BID SET
05/08/2026 **25078**