

FOUNTAIN COMMUNITY COMPLEX FIRE STATION FOR PERMIT - BID



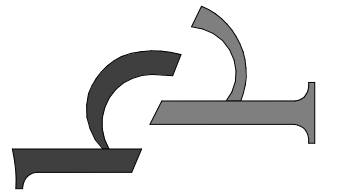
CONSULTANT DIRECTORY

OWNER	BAY COUNTY 840 WEST 11TH STREET PANAMA CITY, FLORIDA 32401
ARCHITECT	BEHAR + PETERANECZ ARCHITECTURE 840 HARRISON AVENUE, SUITE 115 PANAMA CITY, FLORIDA 32401 PHONE: 850 528 6540
MEP ENGINEER	GENESIS ENGINEERING GROUP, LLC. 6700 PROFESSIONAL PARKWAY WEST SARASOTA, FLORIDA 34240 PHONE: 941 977 9778 CONTACT: TONY LUKASZ, PE
STRUCTURAL	GEORGE F. YOUNG, INC. 299 DR. MARTIN LUTHER KING STREET N ST. PETERSBURG, FLORIDA 33701 PHONE: 727 822 4317 CONTACT: JEREMY LUNSFORD, PE
CIVIL ENGINEER	PANHANDLE ENGINEERING 600 OHIO AVE. LYNN HAVEN, FLORIDA 32444 PHONE: 850 763 5200 CONTACT: DOUG MOORE
CONTRACTOR	OUT FOR PUBLIC BID

SYMBOL LEGEND

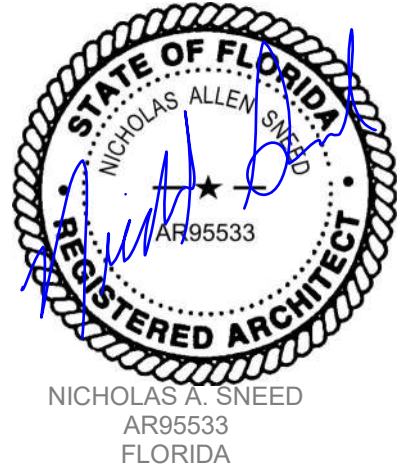
NOTE: REFER TO ELECTRICAL DOCUMENTS FOR ALL FIXTURE SPECIFICATIONS UNLESS NOTED OTHERWISE.

Room name 101	ROOM NAME / NUMBER		ELEVATION NUMBER ELEVATION TAG SHEET ON WHICH ELEVATION IS DRAWN ADDITIONAL ELEVATIONS WITH CORRESPONDING NUMBERS, AS OCCURS
101	DOOR NUMBER		DETAIL NUMBER DETAIL SYMBOL SHEET ON WHICH DETAIL IS DRAWN
1	WINDOW TYPE		SECTION NUMBER SECTION SYMBOL SHEET ON WHICH SECTION IS DRAWN
Y2.53	WALL TYPE		CEILING TYPE CEILING TAG CEILING HEIGHT
#	KEYNOTE DESIGNATION		DRAWING NAME DRAWING TITLE DRAWING SCALE
1i	BATHROOM ACCESSORY		NORTH ARROW ALIGNMENT SYMBOL
1i	LOUVER TYPE		ELEVATION CHANGE
0	GRID LINE DESIGNATION		OCCUPANCY TAG & AREA
Name Elevation	FLOOR LEVEL		ROOF SYSTEM TYPE



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LOCATION MAP



PRODUCT APPROVALS

PRODUCT	FLORIDA APPROVAL #	MANUFACTURER/ MODEL	SPECIFICATION SECTION
METAL ROOFING	FL 24423.7	PAC CLAD - SNAP CLAD 0.32"	07 41 20
STOREFRONT ENTRANCE DOOR	FL 15850 R2	KAWNEER - 500 HEAVY WALL	08 41 13
STOREFRONT SYSTEM	FL 14287 R1	KAWNEER - 451T	08 41 13
HOLLOW METAL DOOR	FL 11537 R9	CURRIES - 707 & 747 SERIES	08 11 13
HOLLOW METAL FRAME	FL 32087 R3	CURRIES - M SERIES	08 11 13
OVERHEAD ROLL-UP DOOR	FL 16113.1 R6	OVERHEAD DOOR - STORMTITE 625	08 33 00
CEMENT BOARD FACADE	FL 13265 R7	JAMES HARDIE	07 46 20
FIXED LOUVERS	FL 6876-R12	GREENHECK	08 91 19
FIXED LOUVERS	NOA 23-1116.02	RUSKIN - EME3625MD	08 91 19

NOTE: ALL OPENINGS SHALL COMPLY WITH LEVEL 'E' APPROVAL REQUIREMENTS PER FLORIDA BUILDING CODE. GC SHALL PROVIDE DOCUMENTATION OF APPROVAL IN SUBMITTAL PACKAGE. ASTM E1196-17 LEVEL 'E' PROTECTION.

APPLICABLE CODES SUMMARY

FLORIDA BUILDING CODES:
2023 FLORIDA BUILDING CODE - 8TH EDITION
2023 FLORIDA BUILDING CODE - MECHANICAL, 8TH EDITION
2023 FLORIDA BUILDING CODE - PLUMBING, 8TH EDITION
2023 FLORIDA BUILDING CODE - FUEL/GAS, 8TH EDITION
2023 FLORIDA BUILDING CODE - ENERGY CONSERVATION, 8TH EDITION
ELECTRICAL CODES:
NFPA 70 NATIONAL ELECTRICAL CODE (2023 EDITION)
ACCESSIBILITY CODES:
2023 FLORIDA BUILDING CODE - ACCESSIBILITY, 8TH EDITION
FIRE CODES:
FLORIDA FIRE PREVENTION CODE - 8TH EDITION (2023) W/ LOCAL AMENDMENTS AS APPLICABLE

SITE DATA

JURISDICTION:	BAY COUNTY
NAME:	BAY COUNTY, FOUNTAIN COMMUNITY COMPLEX
ADDRESS:	12421 HIGHWAY 20 FOUNTAIN, FLORIDA 32438
LOT SIZE:	2.045 ACRES
FOLIO NUMBER:	TBD
PARCEL NUMBER:	TBD

"ALL GENERAL CONTRACTORS ENGAGED IN THE PERFORMANCE OF WORK UNDER THIS CONTRACT ARE REQUIRED TO COMPLY WITH THE PROVISIONS OF THE "BUY AMERICA ACT" (41 U.S.C. §§ 8301-8305), WHICH MANDATES THAT ONLY DOMESTIC END PRODUCTS AND CONSTRUCTION MATERIALS BE UTILIZED IN THE PROJECT. SPECIFICALLY, THE BUY AMERICA ACT STIPULATES THAT ALL IRON, STEEL, AND MANUFACTURED GOODS USED IN THE CONSTRUCTION, ALTERATION, OR REPAIR OF PUBLIC BUILDINGS OR PUBLIC WORKS PROJECTS FUNDED BY FEDERAL APPROPRIATIONS MUST BE PRODUCED IN THE UNITED STATES. CONTRACTORS MUST ENSURE THAT ALL MATERIALS AND PRODUCTS MEET THESE REQUIREMENTS AND PROVIDE NECESSARY DOCUMENTATION TO VERIFY COMPLIANCE. FAILURE TO ADHERE TO THESE REQUIREMENTS MAY RESULT IN PENALTIES, CONTRACT TERMINATION, OR OTHER LEGAL CONSEQUENCES."

FOUNTAIN COMMUNITY
COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE:

COVER SHEET

SHEET NUMBER:

G-001

EDITION:

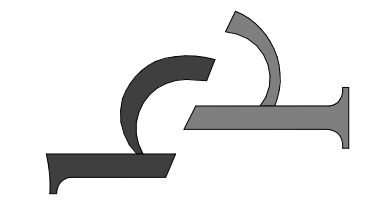
FOR PERMIT - BID

ABBREVIATIONS

MEMBR.	MEMBRANE
MIN.	MINIMUM
MISC.	MISCELLANEOUS
MNT.	MOUNT, MOUNTED
MTL.	METAL
N.I.C.	NOT IN CONTRACT
N.S.F.S.	NEAR SIDE AND FAR SIDE
N.T.S.	NOT TO SCALE
NO.	NUMBER
NOM.	NOMINAL
O.C.	ON CENTER
O.D.	OUTSIDE DIAMETER
O.F.C.I.	OWNER FURNISHED GC INSTALLED
O.R.D.	OVERFLOW ROOF DRAIN
OH.	OVERHANG
OPP.	OPPOSITE
OZ.	OUNCE
P.C.C.	PRE-CAST CONCRETE
P.D.	PARKING DRAIN
P.L. or PLAM	PLASTIC LAMINATE
P.M.J.F.	PRE-MOLDED JOINT FILLER
P.T.	PRESSURE TREATED
P/L	PROPERTY LINE
PLUMB	PLUMBING
PLYWD.	PLYWOOD
PNT.	PAINT
PVC	POLYVINYL CHLORIDE
Q.T.	QUARRY TILE
R.	RISER, RADIUS
R.D.	ROOF DRAIN
R.D.L.	ROOF DRAIN LEADER
R.O.	ROUGH OPENING
R.O.W.	RIGHT OF WAY
R.S.I.C.	RESILIENT SOUND INSULATION CLIP
RAD.	RADIUS
RBR.	RUBBER
RCP	REFLECTED CEILING PLAN
REF.	REFRIGERATOR
REINF.	REINFORCEMENT
REQD.	REQUIRED
RES.	RESILIENT
RM.	ROOM
S A F.B.	SOUND ATTENUATION FIRE BATTS
S.C.	SOLID CORE
S.D.	SMOKE DETECTOR
S.F.	SQUARE FEET
S.T.C.	SOUND TRANSMISSION COEFFICIENT
SH.	SHEET
SIM.	SIMILAR
SP.	SPANDREL GLAZING
SPEC	SPECIFIED OR SPECIFICATION
SPK.	SRINKLER OR SPEAKER
SSTL.	STAINLESS STEEL
ST.	STAIN
STD.	STANDARD
STG.	STAGGER
STL.	STEEL
STOR.	STORAGE
STRUCT.	STRUCTURE
SUSP.	SUSPENDED
T.M.E.	TO MATCH EXISTING
T.O.	TOP OF
T.O.C.	TOP OF CONCRETE
T.O.S.	TOP OF STEEL
T.P.D.	TOILET PAPER DISPENSER
T/D	TELEPHONE/DATA
TELE.	TELEPHONE
TEM.	TEMPERED GLAZING
THK.	THICKNESS
TLT	TOILET
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
U/S	UNDERSIDE
UTIL.	UTILITY
V.C.T.	VINYL COMPOSITION TILE
V.I.F.	VERIFY IN FIELD
V.P.	VISION PANEL
V.W.C.	VINYL WALL COVERING
VERT.	VERTICAL
W.	WASHER
W.C.	WATER CLOSET
W.P.	WATER PROOFING
W.W.F.	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
WD.	WOOD
WT.	WEIGHT

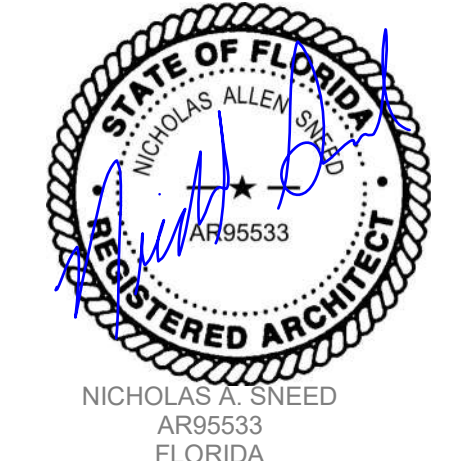
SHEET INDEX

SHEET NUMBER	SHEET NAME
GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX AND ABBREVIATIONS
LS-100	LEVEL 1 CODE PLAN
CIVIL	
C0	COVER SHEET
C1	EXISTING CONDITIONS, DEMO, AND EROSION CONTROL PLAN
C2	SITE PLAN
C3	GRADING AND DRAINAGE PLAN
C4	GRADING AND DRAINAGE DETAILS
C5	UTILITY PLAN
C6	EROSION CONTROL NOTES AND DETAILS
C7	EROSION CONTROL DETAILS
C8	CONSTRUCTION DETAILS
C9	CONSTRUCTION DETAILS
C10	UTILITY DETAILS
C11	UTILITY DETAILS
C12	GENERAL NOTES
C13	STORMWATER POLLUTION PREVENTION PLAN
ARCHITECTURAL	
A-002	SLAB PLAN
A-005	TYPICAL ASSEMBLIES
A-101	LEVEL 1 FLOOR PLAN
A-131	REFLECTED CEILING PLAN
A-151	ROOF PLAN
A-152	ROOF DETAILS
A-201	EXTERIOR ELEVATIONS
A-202	EXTERIOR ELEVATIONS
A-301	BUILDING SECTIONS
A-302	WALL SECTION & DETAILS
A-401	ENLARGED PLANS & ELEVATIONS
A-402	ENLARGED PUMP BUILDING PLANS & ELEVATIONS
A-601	DOOR SCHEDULE
A-602	DOOR DETAILS
A-701	FINISH SCHEDULE
STRUCTURAL	
S-101	GENERAL NOTES
S-102	COMPONENTS AND CLADDING
S-103	SPECIAL INSPECTIONS
S-201	FOUNDATION AND FIRST FLOOR PLAN
S-211	ROOF FRAMING PLAN
S-221	PUMP HOUSE PLANS AND SECTIONS
S-301	FOUNDATION SECTIONS
S-311	ROOF SECTIONS
S-401	ELEVATIONS
S-501	TYPICAL DETAILS
S-502	TYPICAL DETAILS
S-901	SPECIFICATIONS
S-902	SPECIFICATIONS
S-903	SPECIFICATIONS
S-904	SPECIFICATIONS
MECHANICAL	
M000	LEGENDS AND GENERAL NOTES
M100	GROUND LEVEL
M110	ROOF PLAN
M200	ENLARGED PUMP ROOM PLAN
M300	SCHEDULES
M310	SCHEDULES
M400	DETAILS
M410	DETAILS
M500	ENERGY COMPLIANCE
ELECTRICAL	
E000	LEGENDS AND GENERAL NOTES
E100	OVERALL PLAN
E200	GROUND LEVEL POWER AND SYSTEM
E210	GROUND LEVEL REFLECTED CEILING PLAN
E300	ENLARGED PLAN
E400	SCHEDULES
E500	RISER DIAGRAM
E501	FIRE ALARM RISER DIAGRAM
E600	DETAILS
E601	DETAILS
E602	DETAILS
E603	DETAILS
E700	ENERGY COMPLIANCE
PLUMBING	
P000	LEGENDS AND NOTES
P100	UNDERGROUND PLAN
P110	GROUND LEVEL PLAN
P200	SCHEDULES
P210	SCHEDULES
P300	DETAILS
P400	RISERS
FIRE PROTECTION	
FP001	LEGENDS AND NOTES
FP100	GROUND LEVEL PLAN
FP101	DETAILS



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FOUNTAIN COMMUNITY COMPLEX FIRE STATION
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: **23.014**

ISSUE DATE: **09.18.2024**

DRAWING TITLE: **SHEET INDEX AND ABBREVIATIONS**

SHEET NUMBER: **G-002**

EDITION: **FOR PERMIT - BID**

PROJECT DATA AND CODE SUMMARY

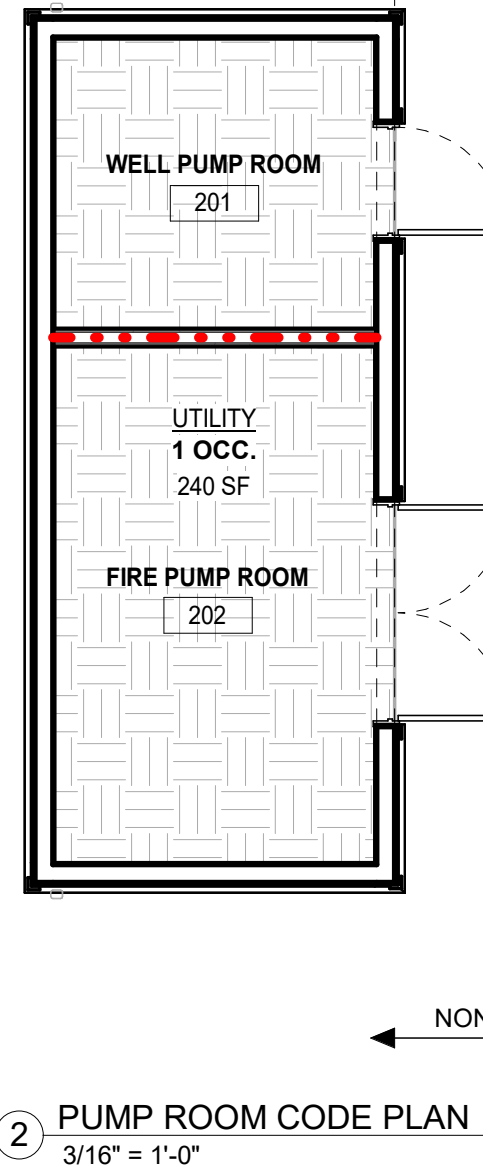
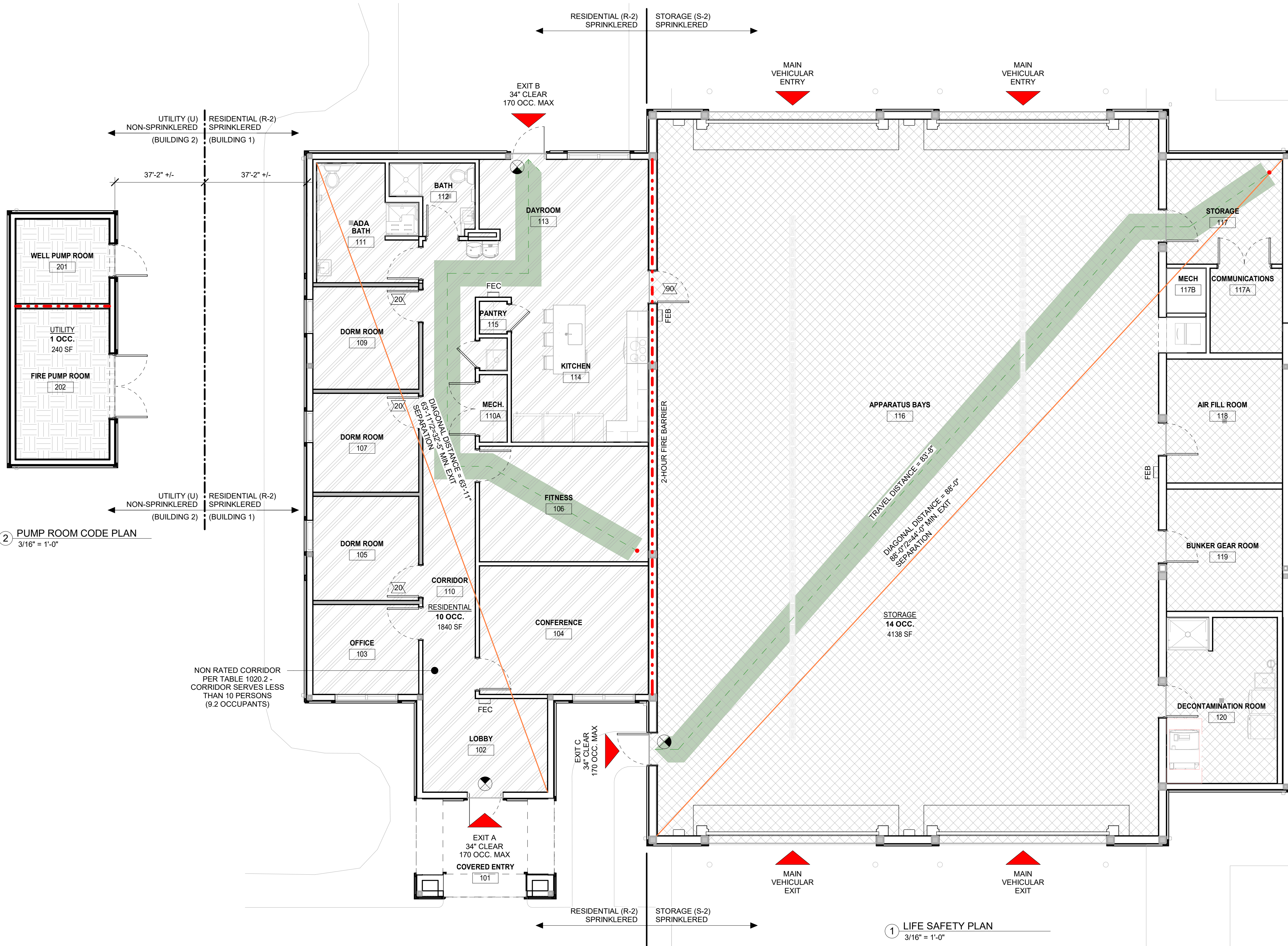
OCCUPANCY TYPE				CODE REFERENCE
BUILDING 1 MAIN OCCUPANCY	GROUP S-2 - STORAGE			FBC 310.4
BUILDING 2	GROUP R-2 - RESIDENTIAL (DORMITORY)			FBC 304.1
RISK CATEGORY IV	GROUP U - UTILITY			FBC 312.1
TYPE OF CONSTRUCTION - 5B SPRINKLERED				CH. 6
BUILDING CRITERIA	S-2 ALLOWED	R-2 ALLOWED	PROPOSED	
HEIGHT	60'	60'	30'-3"	FBC TABLE 504.3
BUILDING LEVELS	3	3	1	FBC TABLE 504.4
BUILDING AREA	54,000 S.F.	28,000 S.F.	5,979 S.F.	FBC TABLE 506.2
TYPE OF CONSTRUCTION - 5B NON-SPRINKLERED				CH. 6
BUILDING CRITERIA	U ALLOWED		PROPOSED	
HEIGHT	40'		12'-8"	FBC TABLE 504.3
BUILDING LEVELS	1		1	FBC TABLE 504.4
BUILDING AREA	5,500 S.F.		240 S.F.	FBC TABLE 506.2

CONSTRUCTION REQUIREMENTS				CODE REFERENCE
TYPE OF CONSTRUCTION				FBC TABLE 601
PRIMARY STRUCTURAL FRAME BEARING WALL - INTERIOR				FBC TABLE 705.5
BEARING WALL - EXTERIOR				0 HOUR
NON-BEARING WALLS & PARTITIONS				0 HOUR
EXTERIOR:				
FIRE SEPARATION DISTANCE <5'				1 HOUR
FIRE SEPARATION DISTANCE 5'x<10'				1 HOUR
FIRE SEPARATION DISTANCE 10'x<30'				0 HOUR
FIRE SEPARATION DISTANCE 30'x30'				0 HOUR
FLOOR CONSTRUCTION				0 HOUR
ROOF CONSTRUCTION				0 HOUR
EXTERIOR WALL OPENING LIMITATIONS: (SPRINKLERED, UNPROTECTED)				FBC TABLE 705.8
FIRE SEPARATION DISTANCE 0'-3'				NONE
FIRE SEPARATION DISTANCE 3'-5'				15%
FIRE SEPARATION DISTANCE 5'-10'				25%
FIRE SEPARATION DISTANCE 10'-15'				45%
FIRE SEPARATION DISTANCE 15'-20'				75%
FIRE SEPARATION DISTANCE >20'				NO LIMIT
OPENING FIRE PROTECTION: FIRE WALLS AND BARRIERS HAVING A REQUIRED FIRE-RESISTANCE RATING > 1 HOUR				FBC 716.5
REQUIRED WALL ASSEMBLY RATING: 2 HOURS				
MIN. FIRE DOOR RATING: 1.5 HOURS				

MEANS OF EGRESS			
EXIT ACCESS TRAVEL DISTANCE	ALLOWED	FBC TABLE 1017.2	
OCCUPANCY S-2	400'		
OCCUPANCY R-2	250'		
OCCUPANCY U	300'		
COMMON PATH OF TRAVEL		MAX. OCC. LOAD	FBC TABLE 1006.2.1
OCCUPANCY S-2	100'	29	
OCCUPANCY R-2	125'	49	
OCCUPANCY U	100'	49	
DEAD END CORRIDOR		FBC 1020.5	
OCCUPANCY S-2	50'		
OCCUPANCY R-2	50'		
OCCUPANCY U	20'		
MINIMUM CORRIDOR WIDTH		REQUIRED	FBC TABLE 1020.3
OCCUPANCY S-2	36"		
OCCUPANCY R-2	36"		
OCCUPANCY U	44"		
1 EXIT REQUIRED		1-500 PERSONS	FBC TABLE 1006.3.2

CONTENTS AND FURNISHINGS			
FBC TABLE 803.11			
OCCUPANCY	EXIT ENCLOSURES AND EXIT PASSAGEWAYS	CORRIDORS	ROOMS AND ENCLOSED SPACES
RESIDENTIAL R-2	C	C	C
STORAGE S-2	C	C	C
UTILITY U	-	-	-
CONTRACTOR SHALL SUPPLY MATERIALS THAT HAVE BEEN TESTED IN ACCORDANCE WITH FBC AS SHOWN ABOVE			
FIRE PROTECTION REQUIREMENTS			
AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED (NFPA 13)			FBC 903.2.8
PORTABLE FIRE EXTINGUISHERS REQUIRED: YES			NFPA 1: 13.6
CABINET / BRACKET TYPE PROVIDED AT 75 FT. INTERVALS			TABLE 13.6.3.2.1.1

APPLICABLE CODES	
FLORIDA BUILDING CODES:	
2023 FLORIDA BUILDING CODE - EIGHTH EDITION (2023)	
2023 FLORIDA BUILDING CODE - MECHANICAL - EIGHTH EDITION (2023)	
2023 FLORIDA BUILDING CODE - PLUMBING - EIGHTH EDITION (2023)	
2023 FLORIDA BUILDING CODE - FUEL/GAS - EIGHTH EDITION (2023)	
2023 FLORIDA BUILDING CODE - ENERGY - EIGHTH EDITION (2023)	
2023 FLORIDA BUILDING CODE - TEST PROTOCOL - EIGHTH EDITION (2023)	
ELECTRICAL CODES:	
NFPA 70 NATIONAL ELECTRICAL CODE (2023 EDITION)	
ACCESSIBILITY CODES:	
2023 FLORIDA BUILDING CODE - ACCESSIBILITY - EIGHTH EDITION (2023)	
FIRE CODES:	
FLORIDA FIRE PREVENTION CODE - EIGHTH EDITION (2024) W/ LOCAL AMENDMENTS	
NFPA 1 - FIRE CODE	
NFPA 101 LIFE SAFETY CODE (2024 EDITION)	



LIFE SAFETY LEGEND

ASSEMBLIES CAN HAVE MULTIPLE FIRE RESISTANCE REQUIREMENTS, THE MOST STRINGENT REQUIREMENT IS DEPICTED HEREIN AND SHALL BE FOLLOWED.

FIRE RESISTIVE ASSEMBLIES REQUIRED FOR SEPARATION OF OCCUPANCIES (FBC CH. 7, TABLE 508.4, RATED OPENINGS TRIGGERED): (FFPC 101, TABLE 6.1.14.4.1(b))

- 1/2 HOUR FIRE RESISTIVE PARTITION - SLEEPING UNIT SEPARATIONS
- 2 HOUR FIRE RESISTIVE PARTITION - R-2 AND S-2 - PARKING GARAGE FROM OTHER OCCUPANCIES PROVIDED.
- EXIT - WITH CAPACITY (NUMBER OF OCCUPANTS ACCOMMODATED BY EXIT WIDTH PROVIDED).
- TYPE ABC FIRE EXTINGUISHER IN SURFACE MOUNTED CABINET, SEE SPECIFICATIONS
- TYPE ABC FIRE EXTINGUISHER IN RECESSED CABINET, SEE SPECIFICATIONS
- TYPE ABC FIRE EXTINGUISHER IN SEMI-RECESSED CABINET, SEE SPECIFICATIONS
- NOTE: EXTINGUISHERS SHALL BE LOCATED AND MOUNTED IN ACCORDANCE WITH REACH RANGES SPECIFIED IN FBC, SECTION 308, AND CLASSIFICATION, RATING, AND DISTRIBUTION REQUIREMENTS OF NFPA 10, AND ARRANGED AT 75' MAX TRAVEL DISTANCE. FINAL QUANTITIES AND LOCATIONS TBD IN FIELD BY FIRE MARSHAL.
- EGRESS TRAVEL PATH AND WIDTH. SEE ASSOCIATED PLAN NOTES FOR COMMON PATH OF TRAVEL (CP) AND TRAVEL DISTANCE (TD) TO EXIT MEASUREMENTS
- DIAGONAL DISTANCE FOR EXIT SEPARATION CALCULATIONS
- OCCUPANCY NAME AND AREA TAG, REFER TO AREA SCHEDULE FOR ADDITIONAL INFORMATION.
- DENOTES LOCATION OF EXIT SIGN (SHADED REGION INDICATES ILLUMINATED DIRECTIONAL SIDE)

REFER TO ELECTRICAL DOCUMENTS FOR EMERGENCY LIGHTING LOCATIONS.

OCCUPANCY LEGEND

	R-2 RESIDENTIAL		S2 - STORAGE		U - UTILITY
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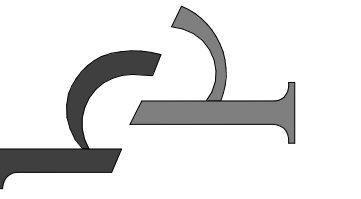


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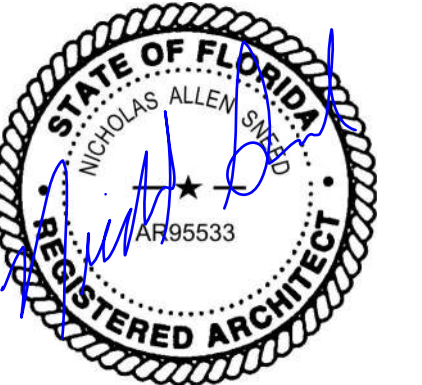
PROJECT NO: 23.014
ISSUE DATE: 09.18.2024
DRAWING TITLE: LEVEL 1 CODE PLAN
SHEET NUMBER: LS-100
EDITION: FOR PERMIT - BID



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NICHOLAS A. SNEED
AR95533
FLORIDA

FOUNTAIN COMMUNITY
COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO. 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: SLAB PLAN

SHEET NUMBER: A-002

EDITION: FOR PERMIT - BID

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SYMBOL LEGEND

- SLAB / BEAM STEP AS NOTED
- STRUCTURAL WALL OR COLUMN. REFER TO STRUCTURAL DRAWINGS.
- DESIGNATED AREA FOR SLAB PENETRATIONS. REFER TO MEP DRAWINGS
- PROPERTY LINE
- SLOPE IN TOP SURFACE OF STRUCTURAL SLAB OR TOPPING SURFACE, 1/8" PER 1'-0 MIN, TYP. U.N.O
- 6" X 6" FLOOR DRAIN. REFER TO PLUMBING DRAWINGS FOR EXACT SIZE AND LOCATION
- ELEVATION TARGET. 0'-0" SHALL EQUAL BASE ELEVATION OF FLOOR LEVEL. REFER TO ELEVATIONS AND SECTIONS FOR ACTUAL FLOOR LEVEL ELEVATIONS

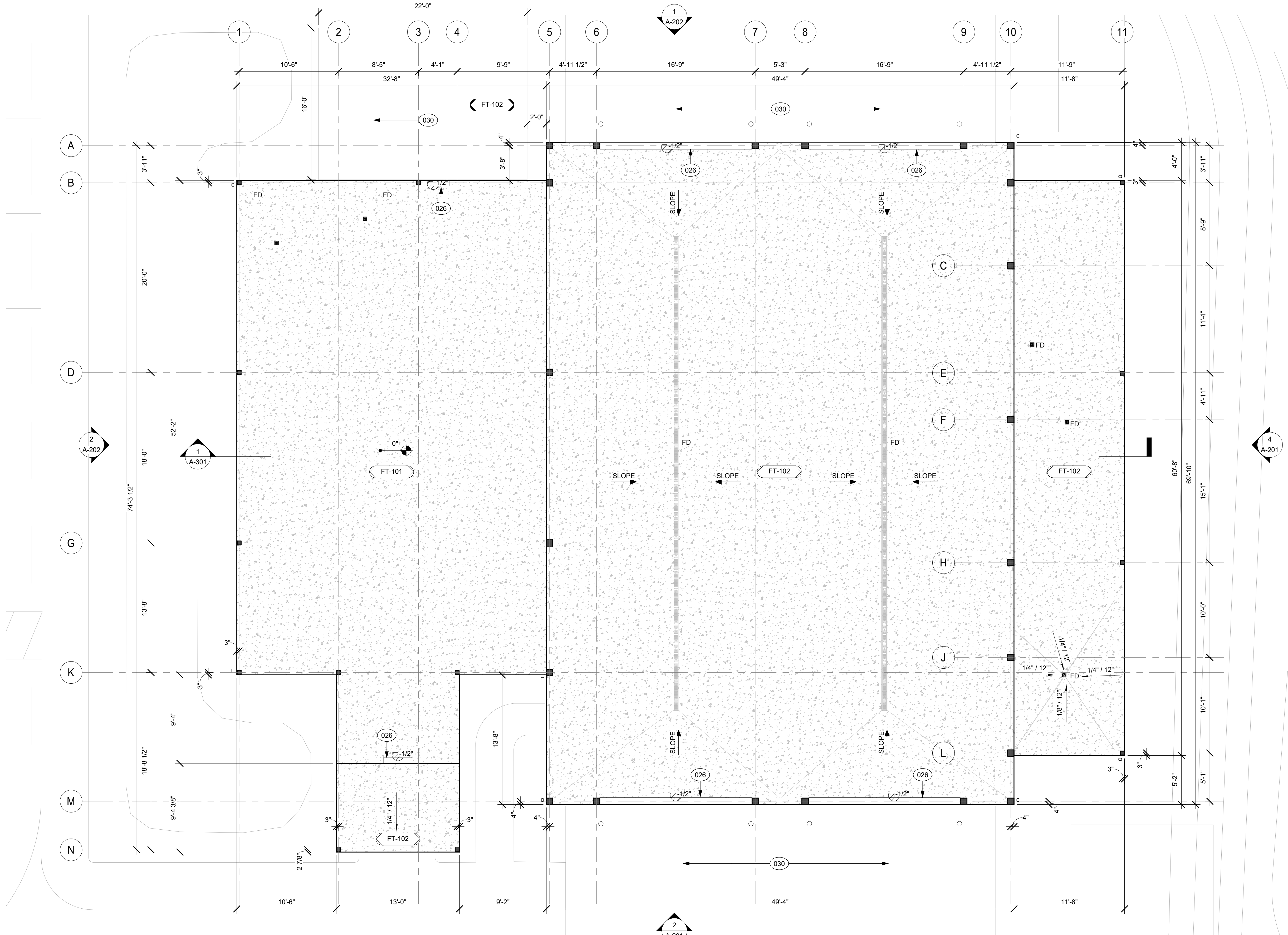
PLAN GENERAL NOTES

- STEP AT DOORS IS INFORMATIONAL ONLY. REFER TO CIVIL DRAWINGS FOR ACTUAL SLOPES AND FLOOR DRAIN LOCATIONS.
- REFER TO STRUCTURAL DRAWINGS AND DETAILS FOR SLAB, COLUMN, AND BEAM DESIGNS, THICKNESS, TRANSITIONS, ETC. ALL COLUMNS DEPICTED IN THESE PLANS WITH HIDDEN LINES ARE REFERENCED FROM LEVEL BELOW.
- COORDINATE SLAB PENETRATIONS WITH ALL TRADES, APPROVED SHOP DRAWINGS, AND MECHANICAL EQUIPMENT REQUIREMENTS PRIOR TO CONSTRUCTION.
- COORDINATE ALL SHAFT AND SLEEVE SIZES AND LOCATIONS WITH MEP DRAWINGS PRIOR TO CONSTRUCTION. ANY DISCREPANCIES OR CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, MEP, AND STRUCTURAL ENGINEERS.
- SLOPES IN TOP FACE OF STRUCTURAL SLABS ARE 1/8" PER FT TYP. TO DRAINS UNLESS NOTED OTHERWISE. ADA COMPATIBLE SLOPES AND CROSS-SLOPES SHALL BE MAINTAINED IN ALL AREAS UNLESS NOTED OTHERWISE.

KEYNOTE LEGEND

- 026 SLAB DAP OUT - SEE DOOR DETAILS FOR ADDITIONAL INFORMATION
- 030 CONCRETE PAD - REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION

1 SLAB PLAN
3/16" = 1'-0"



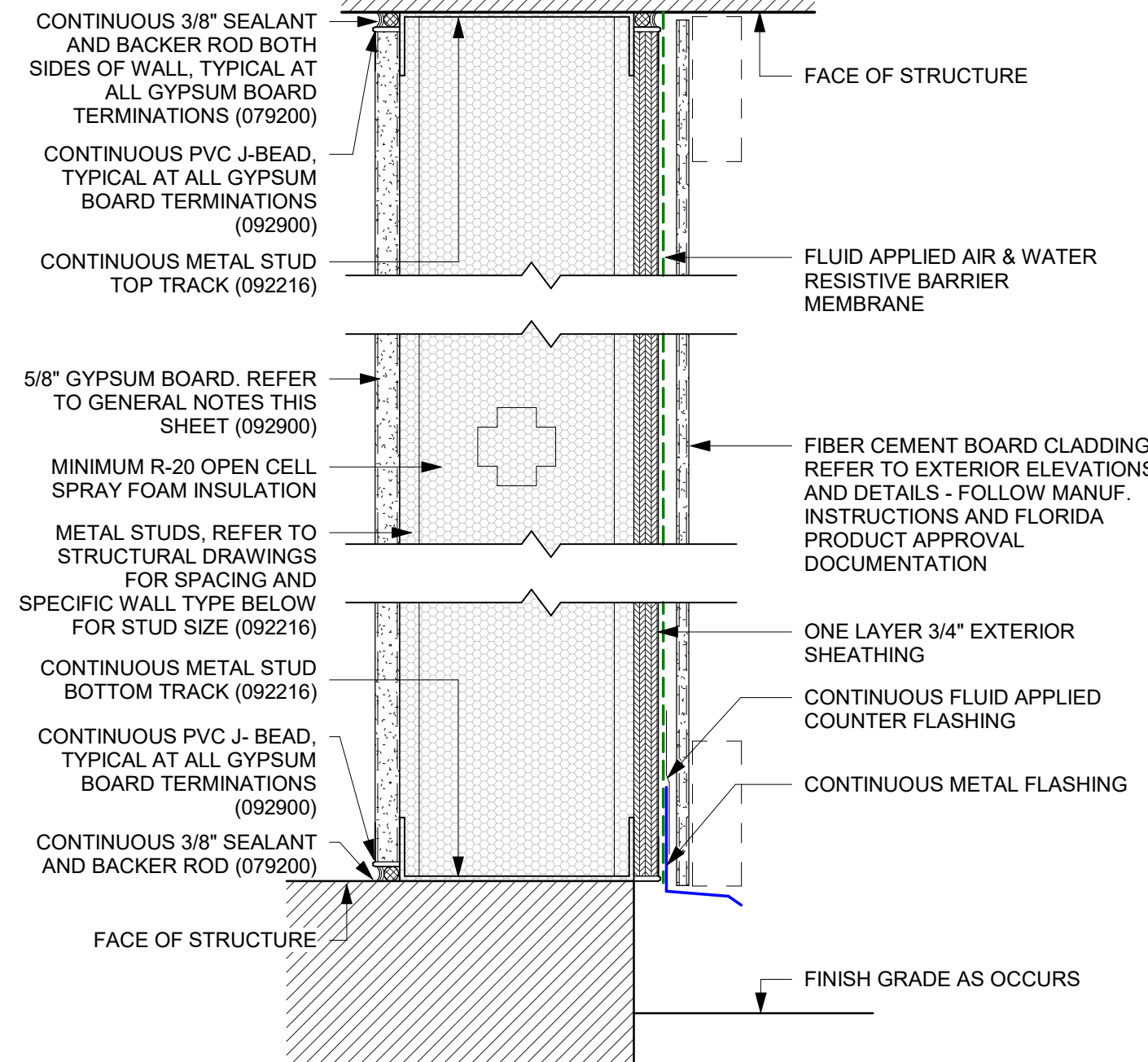
EXTERIOR PARTITION TYPES

PARTITION TYPE "Y6"

EXTERIOR METAL FRAME WALLS WITH FIBER CEMENT SIDING, FIRE RATED AND NON-RATED

INTERIOR SIDE

EXTERIOR SIDE



- NOTE:**
1. GENERIC TOP OF WALL TERMINATION DETAILING SHOWN. REFER TO SPECIFIC TOP OF WALL TERMINATION DETAILING.
 2. MAINTAIN WALL RATING AT INTERFACE OF ALL INTERCONNECTED WALL AND FLOOR ASSEMBLIES. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.

PARTITION DESIGNATION	CORE SIZE	FIRE RATING	UL LISTING	STC RATING	STC TEST	COMMENTS
Y6.61	6"	-	-	-	-	FIBER CEMENT SIDING ON EXT. SHEATHING, WITH 5/8" GYP. BD. INTERIOR SIDE
Y6.62	6"	-	-	-	-	FIBER CEMENT SIDING ON EXT. SHEATHING, WITH NO GYP. INTERIOR SIDE
Y6.63	6"	-	-	-	-	FIBER CEMENT SIDING ON EXT. SHEATHING, WITH 5/8" MOISTURE RESISTANT GYP. BD. INTERIOR SIDE
Y6.81	8"	-	-	-	-	FIBER CEMENT SIDING ON EXT. SHEATHING, WITH 5/8" MOISTURE RESISTANT GYP. BD. INTERIOR
Y6.82	8"	-	-	-	-	FIBER CEMENT SIDING ON EXT. SHEATHING, WITH 2 LAYERS 5/8" MOISTURE RESISTANT GYP. BD. INTERIOR AS REQUIRED

FBC 703.7 MARKING AND IDENTIFICATION

WHERE THERE IS AN ACCESSIBLE CONCEALED FLOOR, FLOOR-CEILING OR ATTIC SPACE, FIRE WALLS, FIRE BARRIERS, FIRE PARTITIONS, SMOKE BARRIERS AND SMOKE PARTITIONS OR ANY OTHER WALL REQUIRED TO HAVE PROTECTED OPENINGS OR PENETRATIONS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING IN THE CONCEALED SPACE. SUCH IDENTIFICATION SHALL:

1. BE LOCATED WITHIN 15 FEET (4572 MM) OF THE END OF EACH WALL AND AT INTERVALS NOT EXCEEDING 30 FEET (9144 MM) MEASURED HORIZONTALLY ALONG THE WALL OR PARTITION.
2. INCLUDE LETTERING NOT LESS THAN 3 INCHES (76 MM) IN HEIGHT WITH A MINIMUM 3/8-INCH (9.5 MM) STROKE IN A CONTRASTING COLOR INCORPORATING THE SUGGESTED WORDING, "FIRE AND/OR SMOKE BARRIER—PROTECT ALL OPENINGS," OR OTHER WORDING.

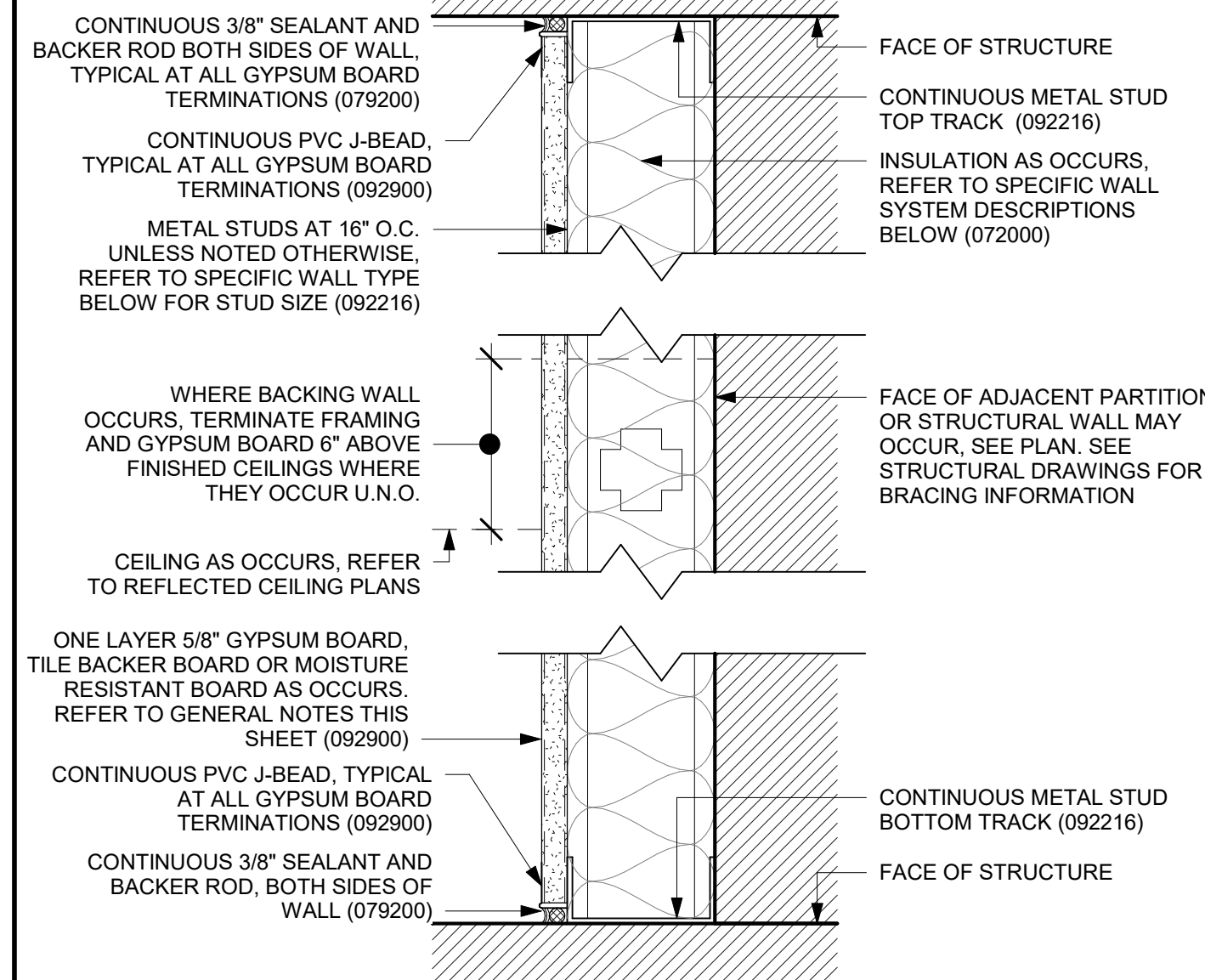
PARTITION NOTES

1. GC SHALL BE KNOWLEDGEABLE IN THE SOUND TRANSMISSION AND FIRE RATING TESTS LISTED HEREIN, AND SHALL CONSTRUCT AND FINISH THE WALL ASSEMBLIES IN A MANNER THAT THEY ARE FULLY COMPLIANT WITH THESE TESTS. ANY QUESTIONS OR CONCERNS SHALL BE COMMUNICATED TO THE ARCHITECT IN WRITING PRIOR TO COMMENCING WITH THE CONSTRUCTION OF ANY SUCH ASSEMBLIES.
2. WHERE UL NUMBERS ARE PROVIDED, REFER TO FULL UL LISTING FOR COMPLETE ASSEMBLY REQUIREMENTS.
3. WHERE STC RATINGS ARE PROVIDED, REFER TO FULL STC ASSEMBLY TESTING DATA FOR COMPLETE REQUIREMENTS.
4. ALL WALLS SHALL EXTEND TO THE UNDERSIDE OF FIRE RATED FLOOR ASSEMBLY ABOVE UNLESS NOTED OTHERWISE.
5. FIRE SEAL ALL PARTITIONS AND PENETRATIONS THROUGH RATED WALL AND FLOOR ASSEMBLIES WITH AN APPROVED RATED ASSEMBLY SYSTEM OR THROUGH-WALL PENETRATION SYSTEM.
6. REFER TO WALL DETAILS FOR FIRE & SOUND RATED PARTITION PENETRATIONS, TERMINATIONS, ETC.
7. WHERE SEALANTS ARE SHOWN AS PART OF ACOUSTICALLY RATED OR FIRE RATED WALL ASSEMBLIES, OR BOTH, GC SHALL USE SEALANTS SUITABLE FOR USE IN SUCH APPLICATIONS. PROVIDE PRODUCT SUBMITTALS TO THE ARCHITECT WITH DOCUMENTATION CONFIRMING THE PROPOSED PRODUCT(S) MEET OR EXCEED FIRE AND ACOUSTICAL RATING REQUIREMENTS.
8. UNLESS NOTED OTHERWISE, ALL SHAFT WALLS SHALL BE 2 HR RATED ASSEMBLIES. REFER TO CODE SHEETS AND BUILDING DATA FOR ADDITIONAL INFORMATION.
9. REFER TO STRUCTURAL DRAWINGS FOR ALL STRUCTURAL WALL CONSTRUCTION AND ALL REINFORCEMENT REQUIREMENTS.
10. IN NON-FIRE RATED PARTITIONS, TILE BACKER BOARD SHEATHING SHALL BE SUBSTITUTED FOR GYPSUM BOARD AT CERAMIC TILE LOCATIONS. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHEATHING SHALL BE SUBSTITUTED FOR STANDARD GYPSUM BOARD IN ALL BATHROOMS. IN FIRE RATED PARTITIONS, TILE BACKER BOARD SHALL BE ADDED TO WALL SYSTEM AT CERAMIC TILE LOCATIONS. MOISTURE/MOLD RESISTANT GYPSUM BOARD SHEATHING ADDED TO WALL SYSTEM IN ALL BATHROOMS. CONTINUITY OF UL-RATED ASSEMBLIES SHALL BE MAINTAINED AT ALL TIMES.
11. UNLESS NOTED OTHERWISE, ALL EXPOSED CONCRETE / MASONRY INTERIOR WALLS SHALL BE PAINTED.
12. PROVIDE PVC TRIM COMPONENTS AT ALL CHANGES OF PLANE IN DRYWALL SURFACES (J MOULDS AT ALL SURFACE EXTENTS, CORNER BEADS AT CORNERS, ETC).
13. WHERE WALLS OF VARYING FIRE AND/OR SMOKE RATING MEET OR INTERSECT, WALLS OF GREATER RATING SHALL RUN CONTINUOUS.
14. CONTINUOUS INSULATION PROVIDED IN COMPLIANCE WITH 2023 FLORIDA BUILDING CODE ENERGY CONSERVATION 8TH EDITION REQUIREMENTS. REFER TO MECHANICAL DOCUMENTS FOR HVAC DESIGN CALCULATION CRITERIA.

INTERIOR PARTITION TYPES

PARTITION TYPE "A1"

TYPICAL INTERIOR FURRING WALLS NON RATED

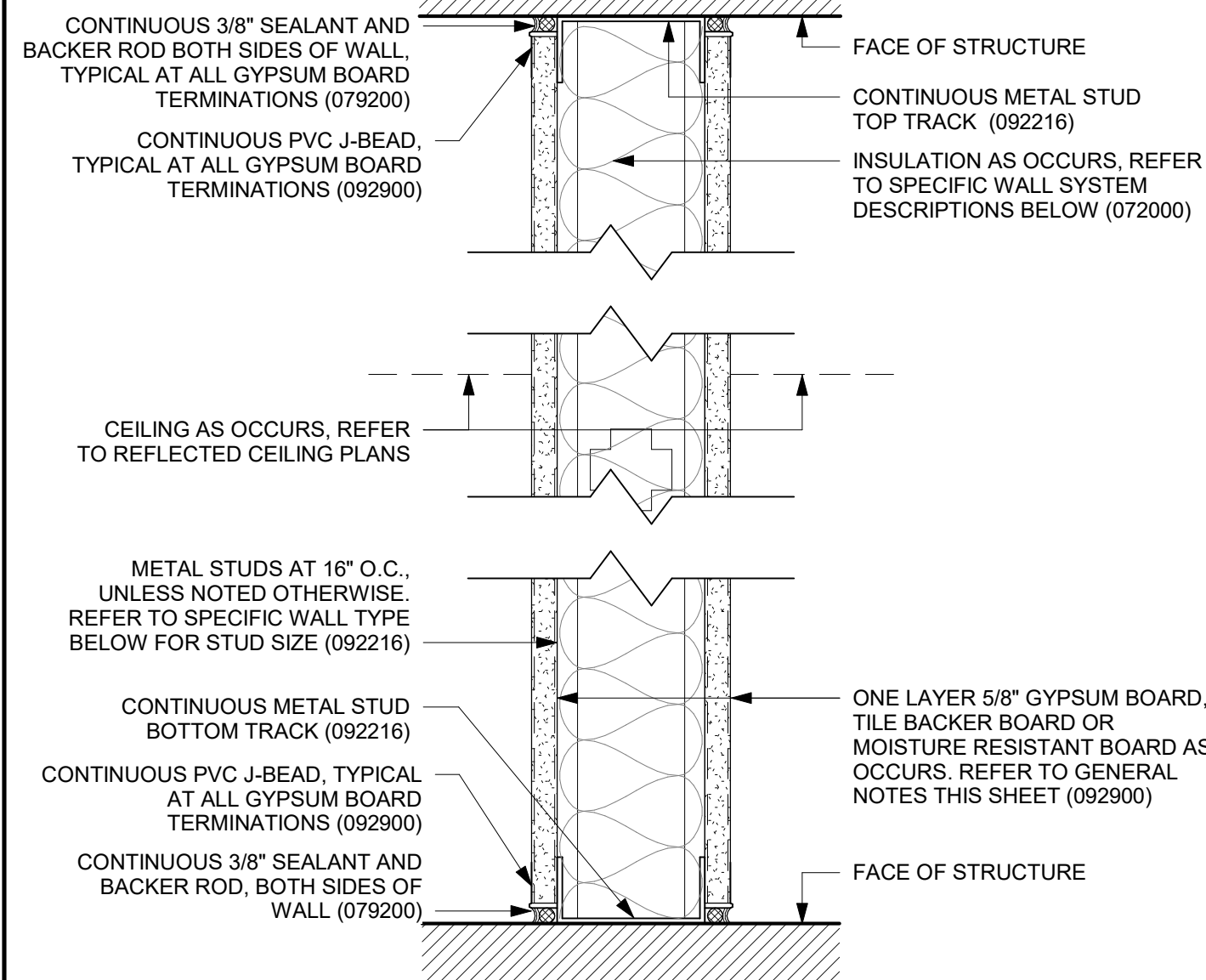


- NOTES:**
1. GENERIC WALL TERMINATIONS SHOWN. REFER TO SPECIFIC WALL TERMINATION DETAILING FOR ALTERNATE CONDITIONS.

PARTITION DESIGNATION	CORE SIZE	FIRE RATING	UL LISTING	STC RATING	STC TEST	COMMENTS
A1.41	3 5/8"	-	-	-	-	
A1.61	6"	-	-	-	-	

PARTITION TYPE "A2"

TYP. METAL FRAME INTERIOR PARTITION WALLS NON RATED

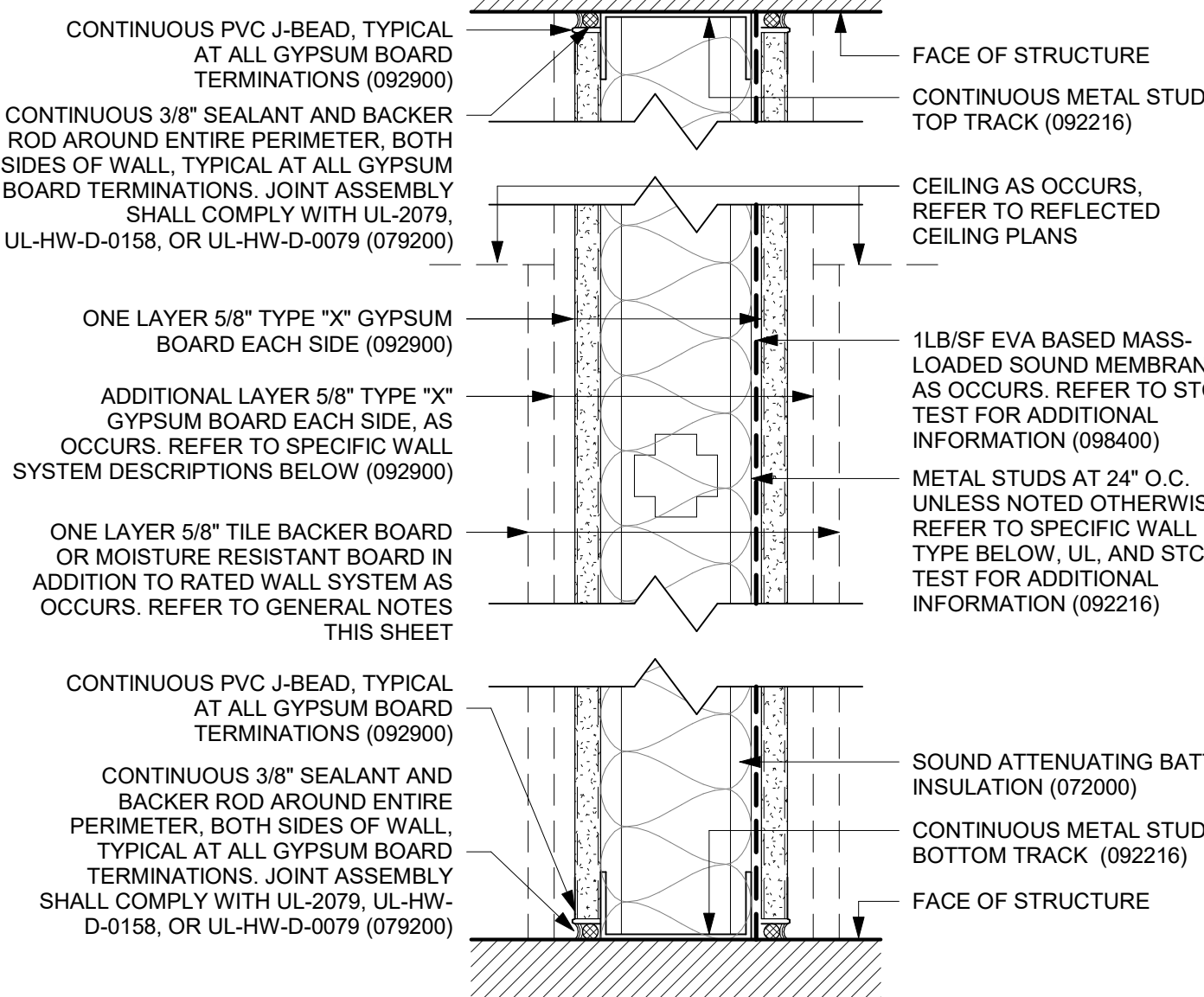


- NOTES:**
1. GENERIC WALL TERMINATIONS SHOWN. REFER TO SPECIFIC WALL TERMINATION DETAILING FOR ALTERNATE CONDITIONS.
 2. PROVIDE MONOLITHIC FLUID APPLIED WATER BARRIER OVER TILE BACKER BOARD AT ALL SHOWER WALL LOCATIONS.
 3. COORDINATE EXTENT OF TILE BACKER BOARD WITH INTERIOR DESIGN DOCUMENTS.
 4. MAINTAIN WALL RATING AT INTERFACE OF ALL INTERCONNECTED WALL AND FLOOR ASSEMBLIES. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.

PARTITION DESIGNATION	CORE SIZE	FIRE RATING	UL LISTING	STC RATING	STC TEST	COMMENTS
A2.41	3 5/8"	-	-	-	-	
A2.61	6"	-	-	-	-	

PARTITION TYPE "A3"

TYP. METAL FRAME INTERIOR PARTITION WALLS FIRE, SOUND RATED

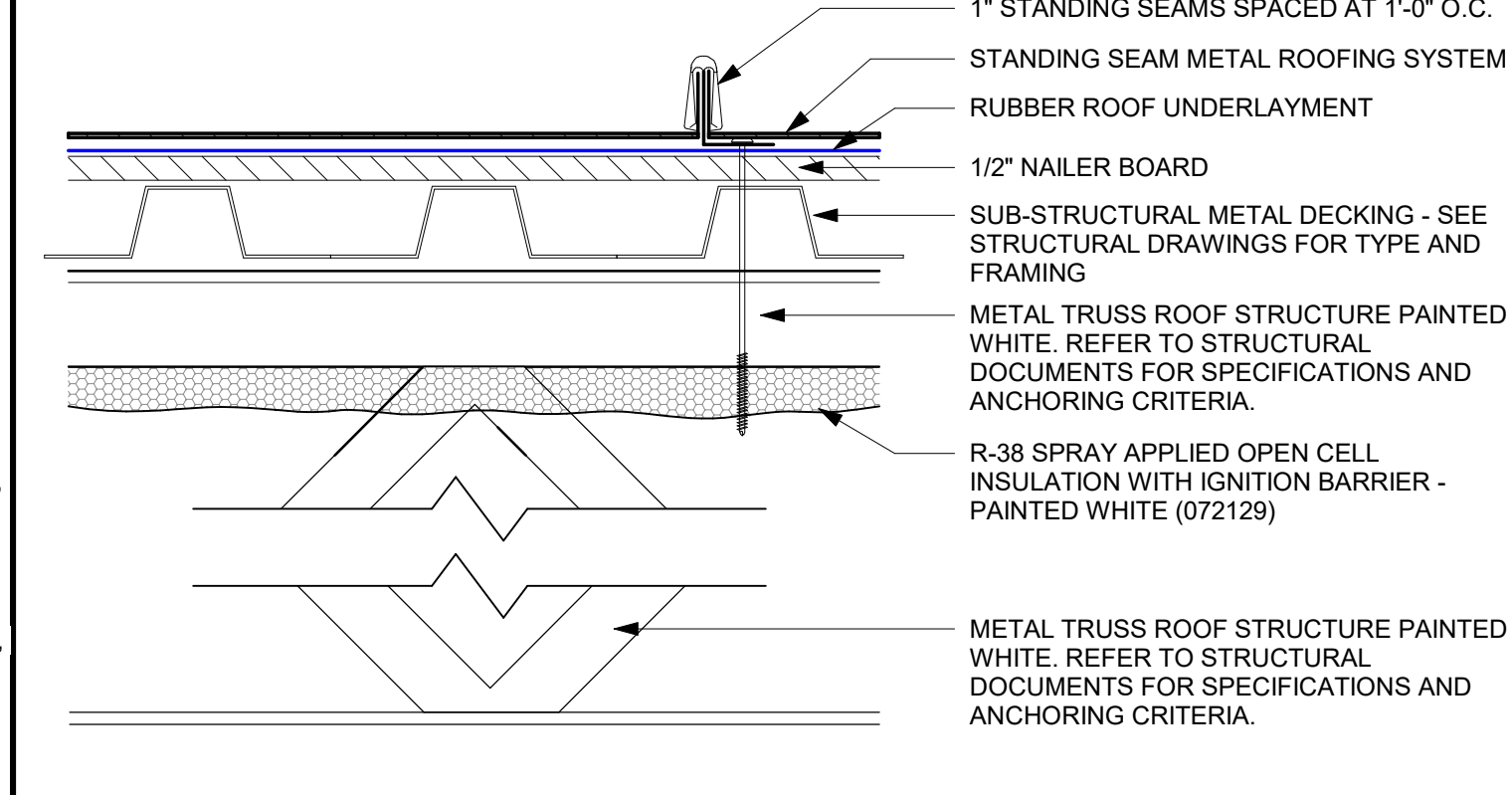


- NOTES:**
1. GENERIC WALL TERMINATIONS SHOWN. REFER TO SPECIFIC WALL TERMINATION DETAILING FOR ALTERNATE CONDITIONS.
 2. COORDINATE EXTENT OF TILE BACKER BOARD WITH INTERIOR DESIGN DOCUMENTS.
 3. MAINTAIN WALL RATING AT INTERFACE OF ALL INTERCONNECTED WALL AND FLOOR ASSEMBLIES. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL INFORMATION.
 4. ALL ELECTRICAL OUTLETS TO BE SPACED MIN. 24" O.C. AND WITHIN SEPARATE STUD CAVITIES WHEN OPENINGS INTO SEPARATE DWELLING UNITS.
 5. ALL MEMBRANE PENETRATIONS SHALL BE WRAPPED WITH A Pliable ONE-PART INTUMESCENT FIRESTOP MATERIAL, 3M FIRE BARRIER PUTTY PADS OR APPROVED EQUAL.

PARTITION DESIGNATION	CORE SIZE	FIRE RATING	UL LISTING	STC RATING	STC TEST	COMMENTS
A3.41	3 5/8"	-	-	55	RAL-TL18-392	
A3.42	3 5/8"	-	-	55	RAL-TL18-392	
A3.43	3 5/8"	2HR	U419	-	-	TWO LAYERS TYPE X GYPSUM BOARD ON BOTH SIDES WITH 3-1/2" FIBERGLASS INSULATION, STUDS SPACED 24" O.C.
A3.81	8"	-	-	-	-	MOISTURE RESISTANT GYPSUM BOARD ON BOTH SIDES
A3.82	8"	2HR	U419	53	USG-180604	TWO LAYERS TYPE X GYPSUM BOARD ON BOTH SIDES WITH 3-1/2" FIBERGLASS INSULATION, STUDS SPACED 24" O.C.

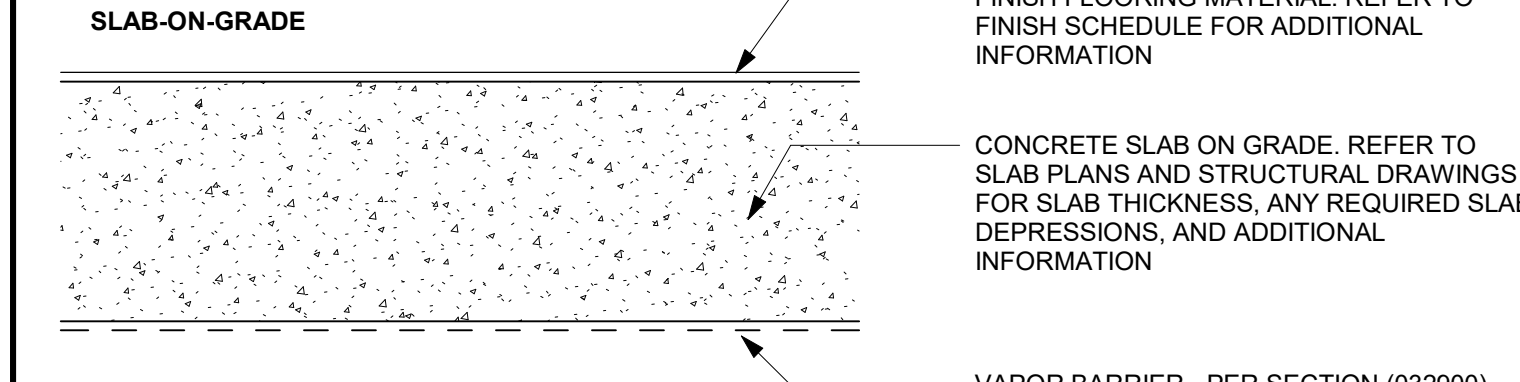
ROOF TYPES

ROOF TYPE (RT-101)

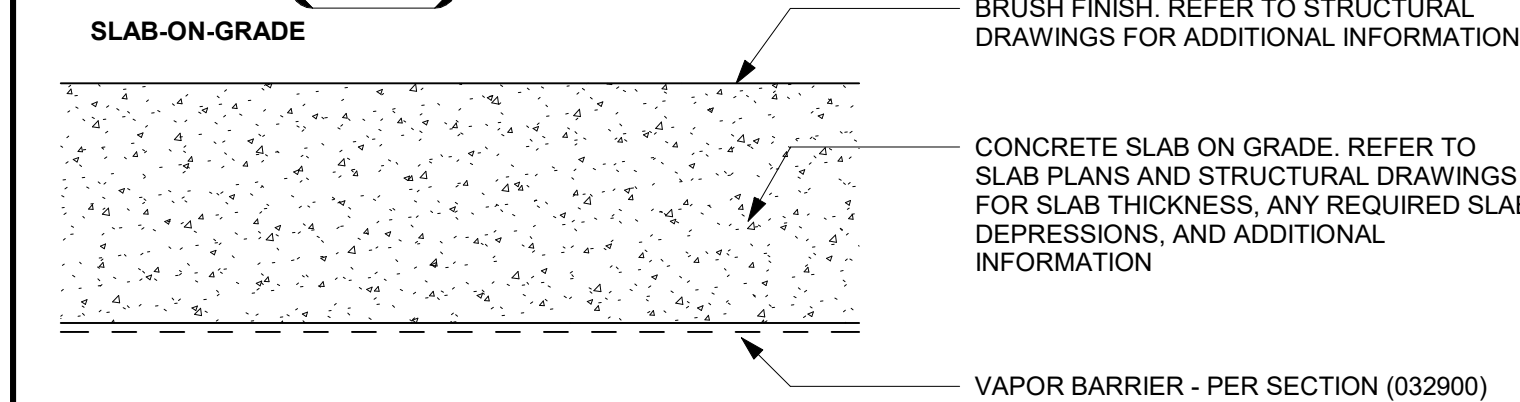


FLOOR TYPES

FLOOR TYPE (FT-101)



FLOOR TYPE (FT-102)



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COMPLEX FIRE STATION
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FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

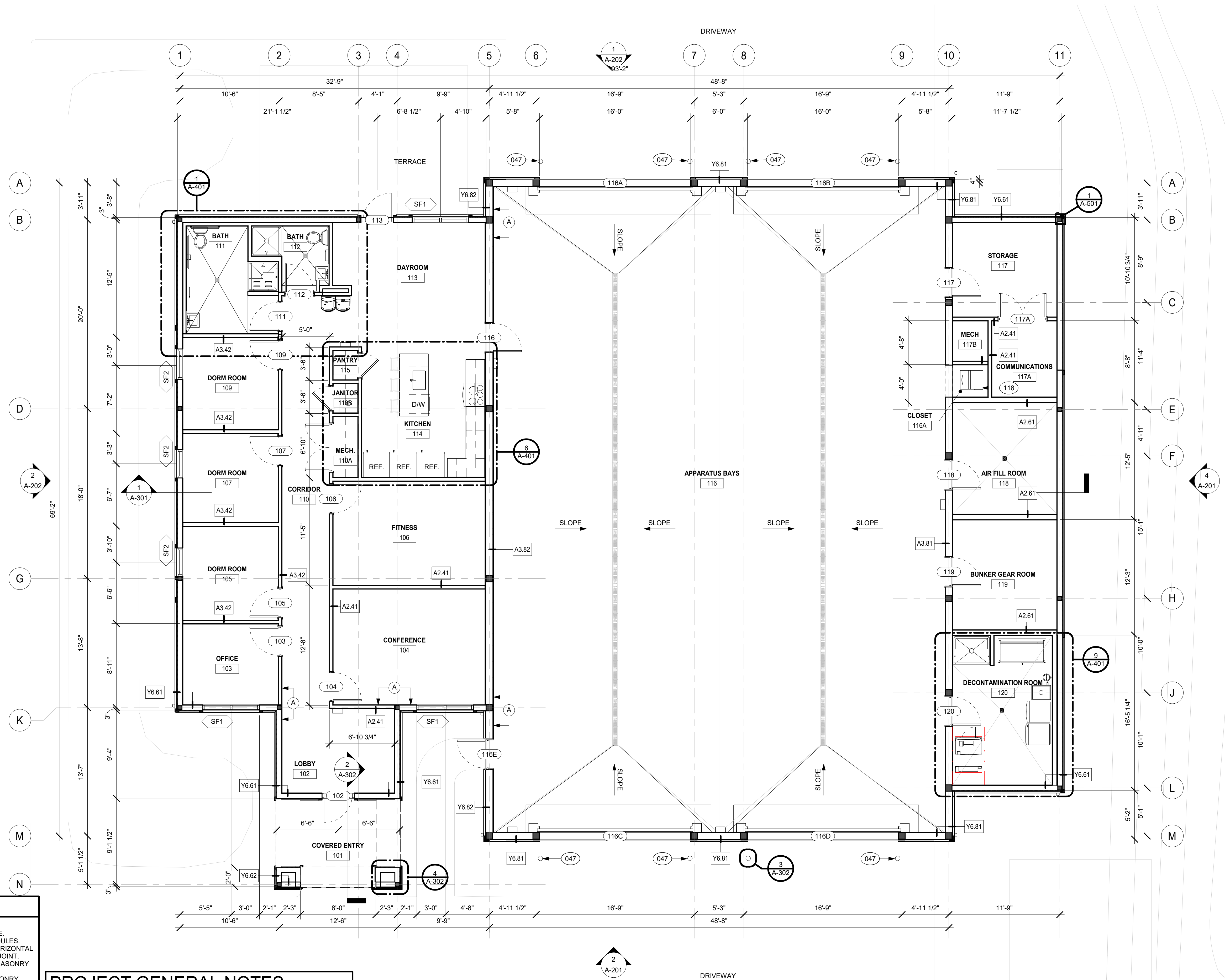
PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: TYPICAL ASSEMBLIES

SHEET NUMBER: A-005

EDITION: FOR PERMIT - BID



DIMENSION NOTES

- MASONRY:
 A. MASONRY PLAN DIMENSIONS ARE NOMINAL AT SCALES NOT SHOWING INDIVIDUAL MODULE.
 B. OPENINGS ARE NOMINAL MASONRY OPENINGS AT SCALES NOT SHOWING INDIVIDUAL MODULES.
 C. MASONRY COURSING LINES SHOWN IN ELEVATION REPRESENT NOMINAL DIMENSIONS. HORIZONTAL JOINT LINES ARE AT TOP OF MASONRY UNIT. VERTICAL JOINT LINES ARE AT CENTERLINE OF JOINT.
 D. EXTERIOR WALL DIMENSIONS ARE MEASURED TO STRUCTURAL GRIDLINES, OR FACE OF MASONRY WALL, U.N.O.
 E. DRAWINGS WITH INDIVIDUAL MODULAR UNITS SHOWN ARE DIMENSIONED TO ACTUAL MASONRY SIZE.
- METAL/WOOD STUDS:
 A. ALL METAL/WOOD STUD WALLS ARE DIMENSIONED TO FACE OF STUD.
 B. INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD AS TAGGED, PER PARTITION SCHEDULE U.N.O. ADDITIONAL FINISHES MAY EXIST, SEE FINISH SCHEDULE AND/OR PLANS.
- ALL CORNERS ARE AT 90 DEGREE RIGHT ANGLES, U.N.O.
- WHERE DOORS ARE ADJACENT TO PERPENDICULAR WALLS, DIMENSION FROM FACE OF WALL TO EDGE OF FRAME IS 4 INCHES U.N.O.
- WHERE WALLS OF VARYING FIRE AND/OR SMOKE RATING MEET OR INTERSECT, WALLS OF GREATER RATING SHALL RUN CONTINUOUS.

PROJECT GENERAL NOTES

- REFER TO REFERENCE SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED PLANS FOR INTERIOR DIMENSIONS, WALL TYPES, EQUIPMENT, DOORS, ETC.
- REFER TO LIFE SAFETY SHEETS FOR ALL LIFE SAFETY RELATED CEILING FIXTURES AND DESIGNS, INCLUDING EXIT SIGN LOCATIONS, EMERGENCY BACKUP FIXTURES, ETC.

1 GROUND LEVEL
 3/16" = 1'-0"

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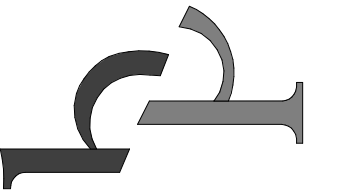
PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: LEVEL 1 FLOOR PLAN

SHEET NUMBER: A-101

EDITION: FOR PERMIT - BID



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ISSUED DRAWING LOG:

#	Date	Description
1	11.08.2024	USDA REVIEW COMMENTS

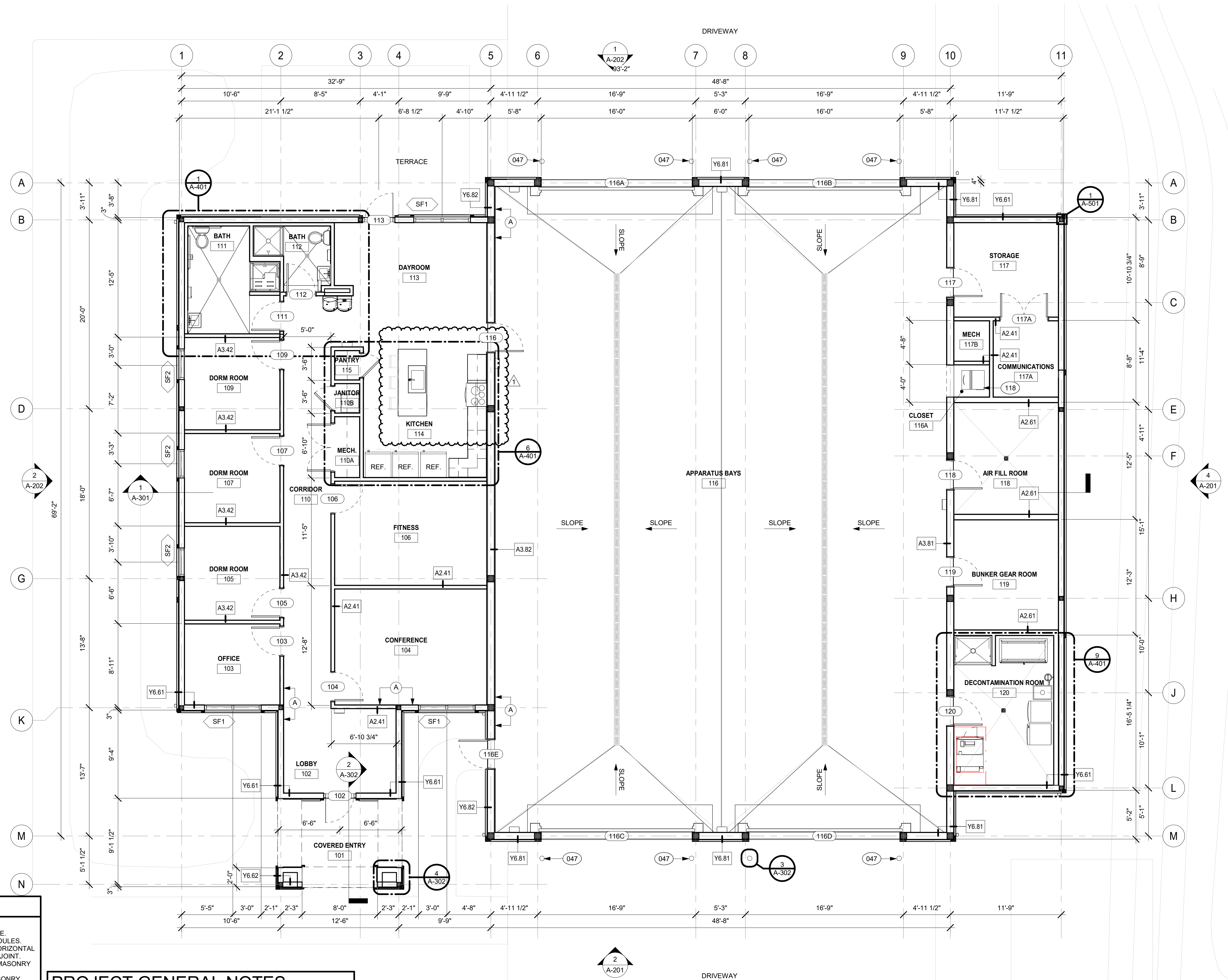
PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: LEVEL 1 FLOOR PLAN

SHEET NUMBER: A-101

EDITION: FOR PERMIT - BID



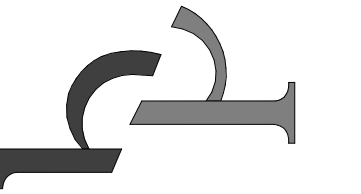
DIMENSION NOTES

- MASONRY:
 - MASONRY PLAN DIMENSIONS ARE NOMINAL AT SCALES NOT SHOWING INDIVIDUAL MODULE.
 - OPENINGS ARE NOMINAL MASONRY OPENINGS AT SCALES NOT SHOWING INDIVIDUAL MODULES.
 - MASONRY COURSING LINES SHOWN IN ELEVATION REPRESENT NOMINAL DIMENSIONS. HORIZONTAL JOINT LINES ARE AT TOP OF MASONRY UNIT. VERTICAL JOINT LINES ARE AT CENTERLINE OF JOINT.
 - EXTERIOR WALL DIMENSIONS ARE MEASURED TO STRUCTURAL GRIDLINES, OR FACE OF MASONRY WALL, U.N.O.
 - DRAWINGS WITH INDIVIDUAL MODULAR UNITS SHOWN ARE DIMENSIONED TO ACTUAL MASONRY SIZE.
- METAL/WOOD STUDS:
 - ALL METAL/WOOD STUD WALLS ARE DIMENSIONED TO FACE OF STUD.
 - INTERIOR WALL DIMENSIONS ARE TO FACE OF STUD AS TAGGED, PER PARTITION SCHEDULE U.N.O. ADDITIONAL FINISHES MAY EXIST, SEE FINISH SCHEDULE AND/OR PLANS.
- ALL CORNERS ARE AT 90 DEGREE RIGHT ANGLES, U.N.O.
- WHERE DOORS ARE ADJACENT TO PERPENDICULAR WALLS, DIMENSION FROM FACE OF WALL TO EDGE OF FRAME IS 4 INCHES U.N.O.
- WHERE WALLS OF VARYING FIRE AND/OR SMOKE RATING MEET OR INTERSECT, WALLS OF GREATER RATING SHALL RUN CONTINUOUS.

PROJECT GENERAL NOTES

- REFER TO REFERENCE SYMBOL LEGEND FOR ADDITIONAL INFORMATION.
- REFER TO ENLARGED PLANS FOR INTERIOR DIMENSIONS, WALL TYPES, EQUIPMENT, DOORS, ETC.
- REFER TO LIFE SAFETY SHEETS FOR ALL LIFE SAFETY RELATED CEILING FIXTURES AND DESIGNS, INCLUDING EXIT SIGN LOCATIONS, EMERGENCY BACKUP FIXTURES, ETC.

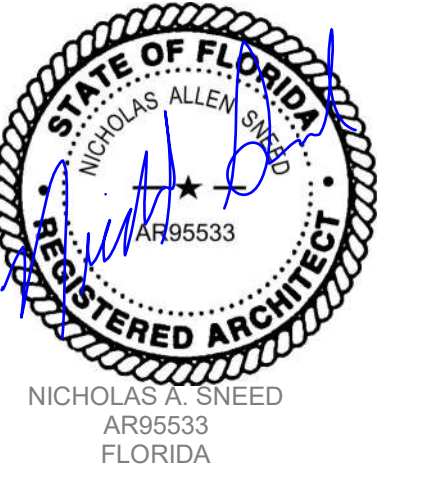
1 GROUND LEVEL
3/16" = 1'-0"



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#	Date	Description

PROJECT NO: **23.014**

ISSUE DATE: **09.18.2024**

DRAWING TITLE:

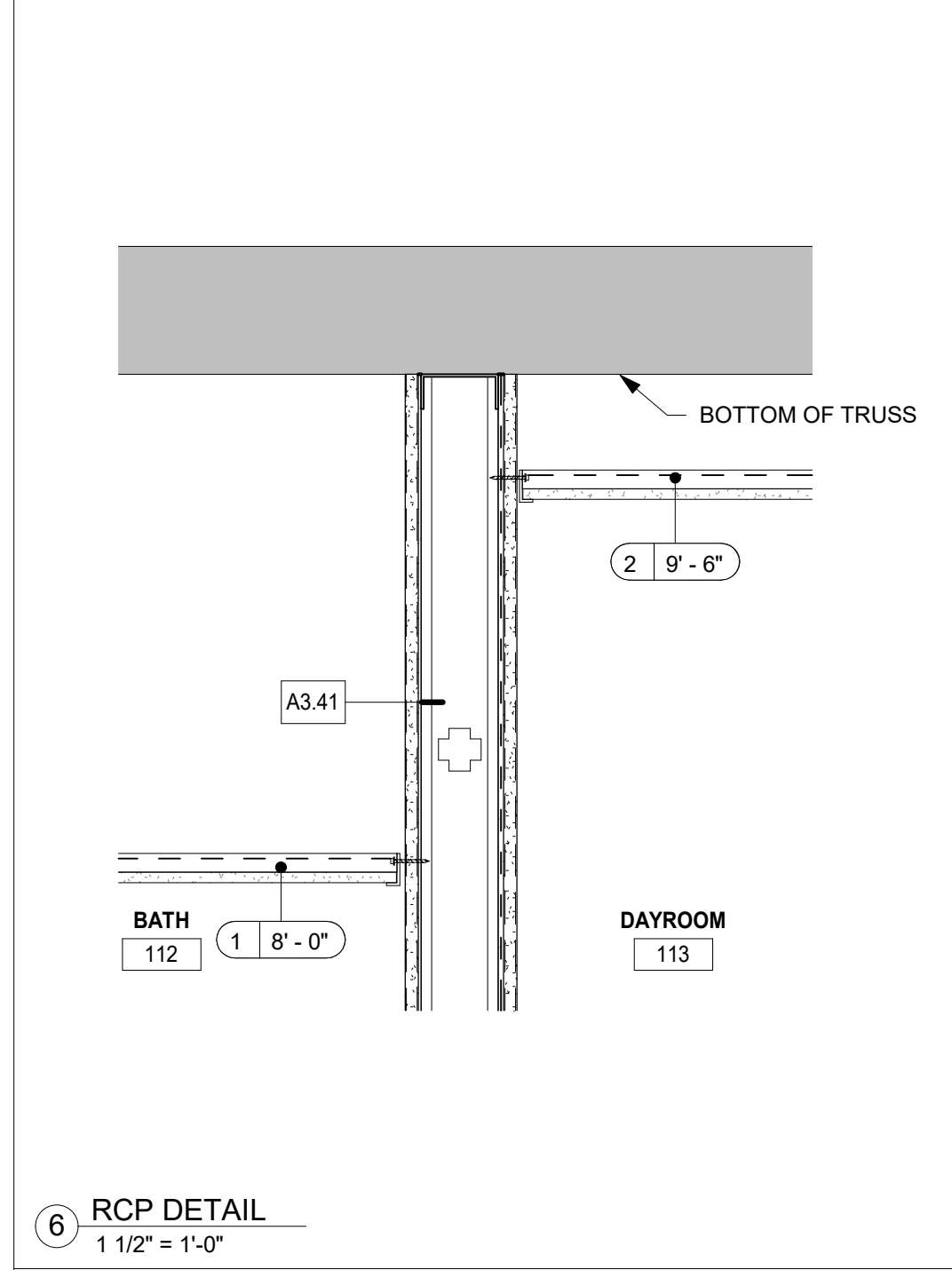
**REFLECTED
CEILING PLAN**

SHEET NUMBER:

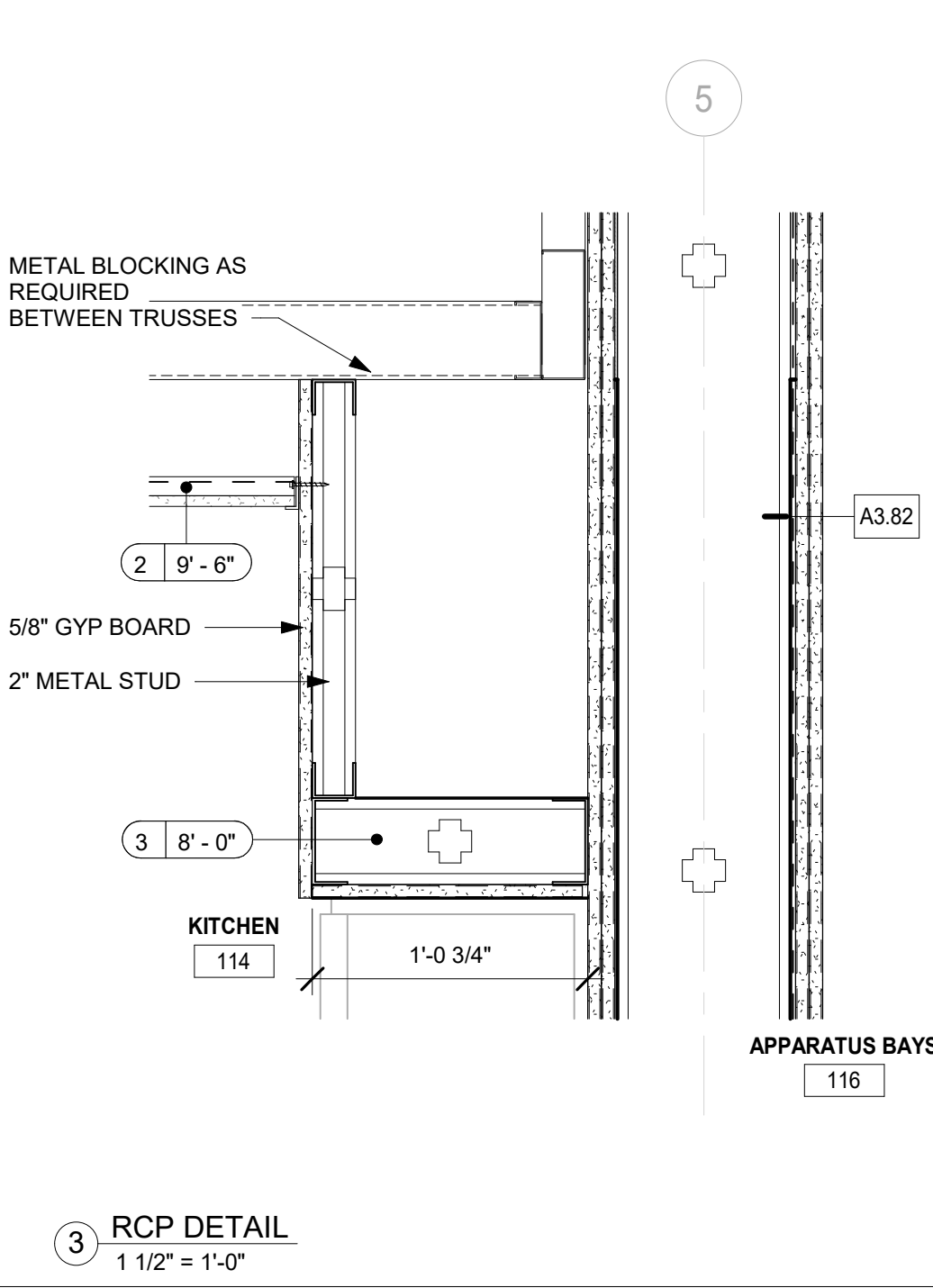
A-131

EDITION:

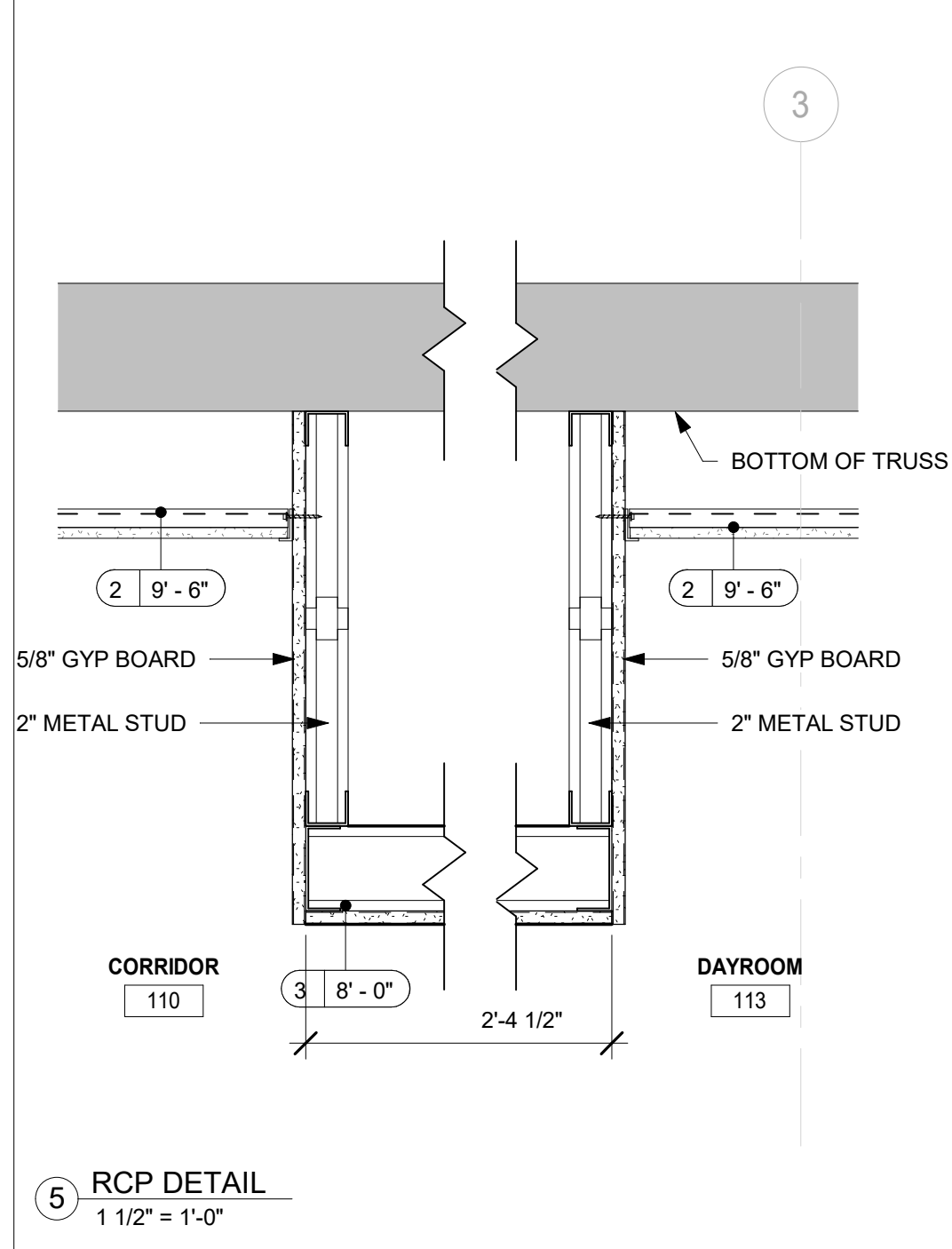
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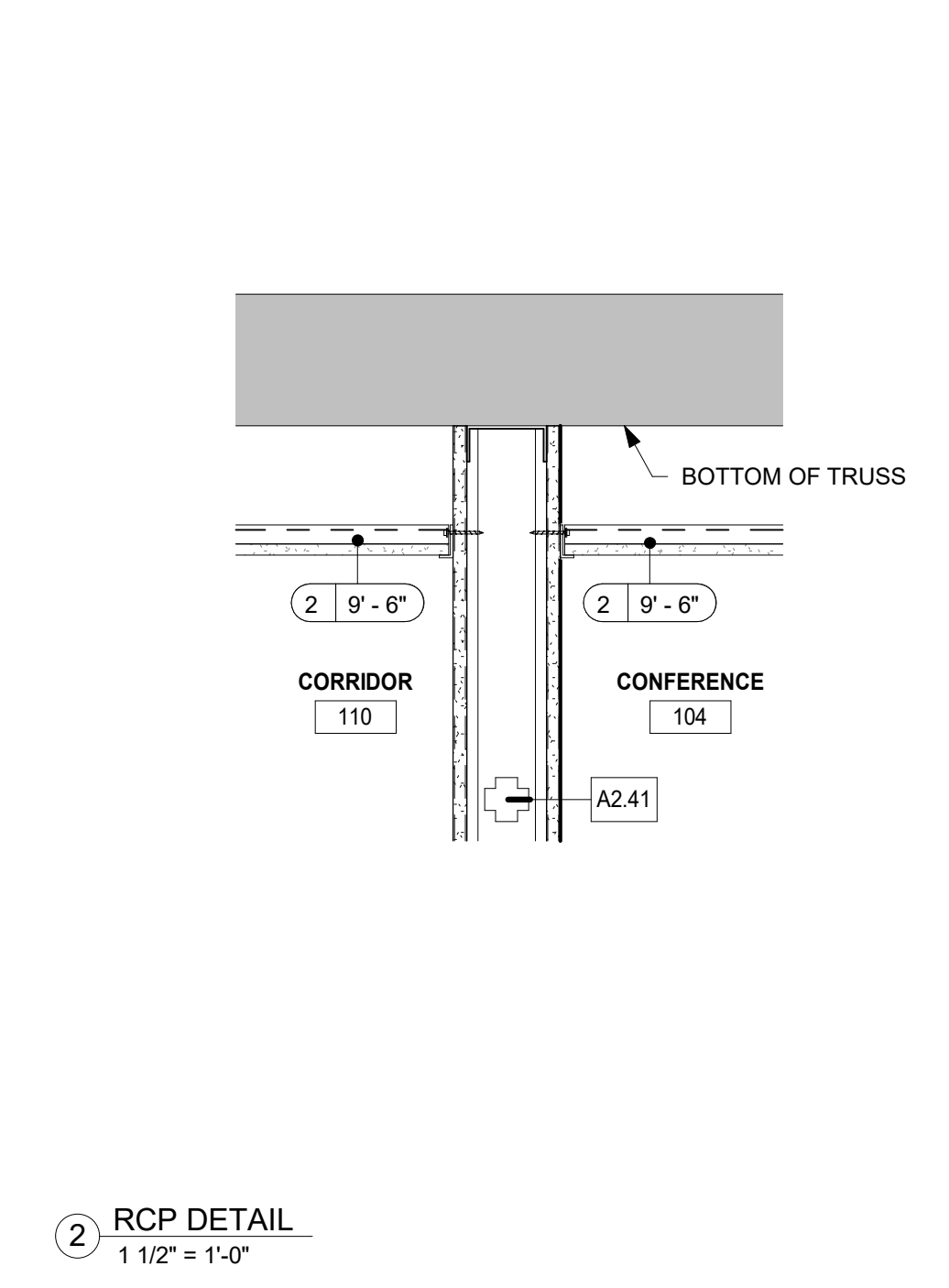
6 RCP DETAIL
1 1/2" = 1'-0"



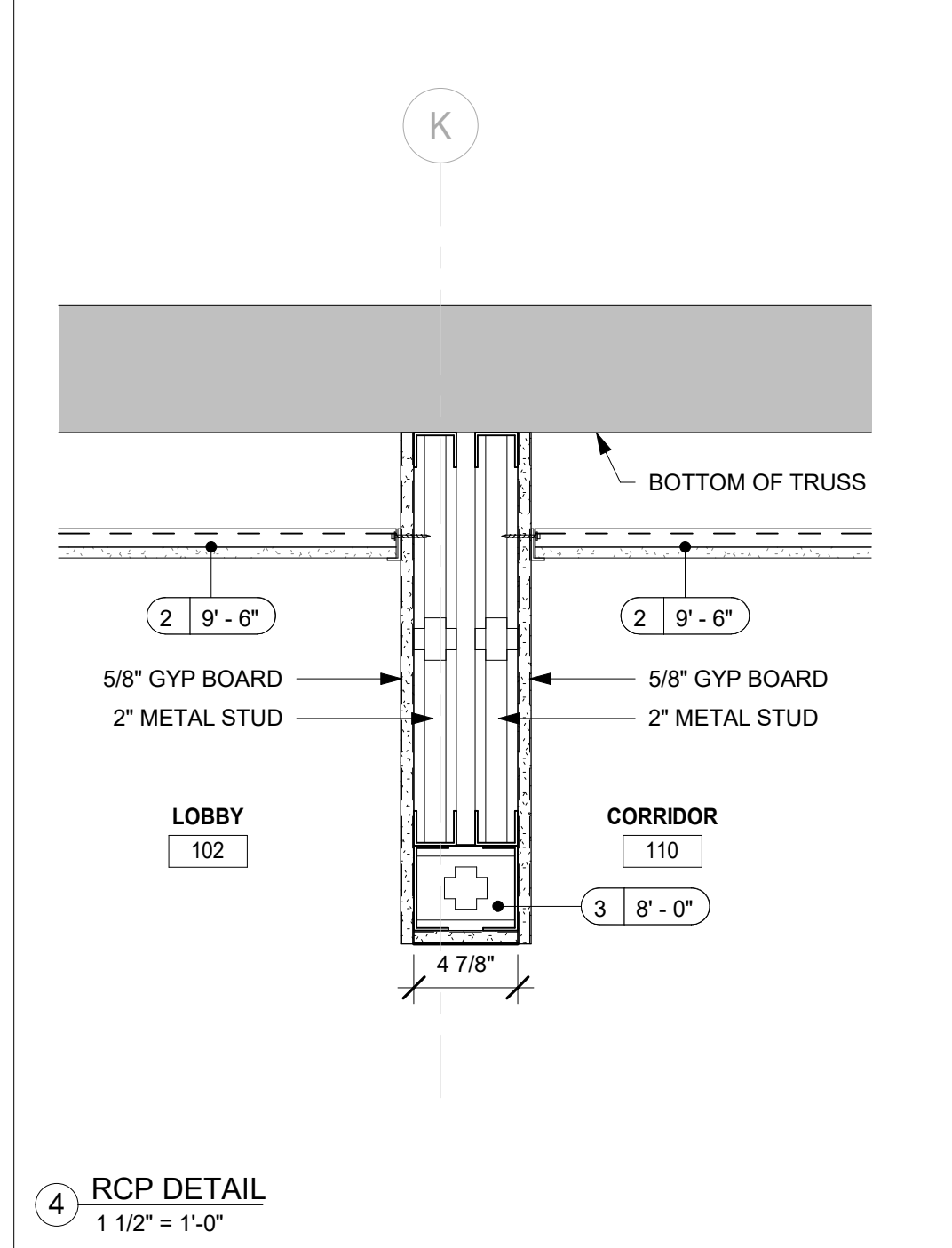
3 RCP DETAIL
1 1/2" = 1'-0"



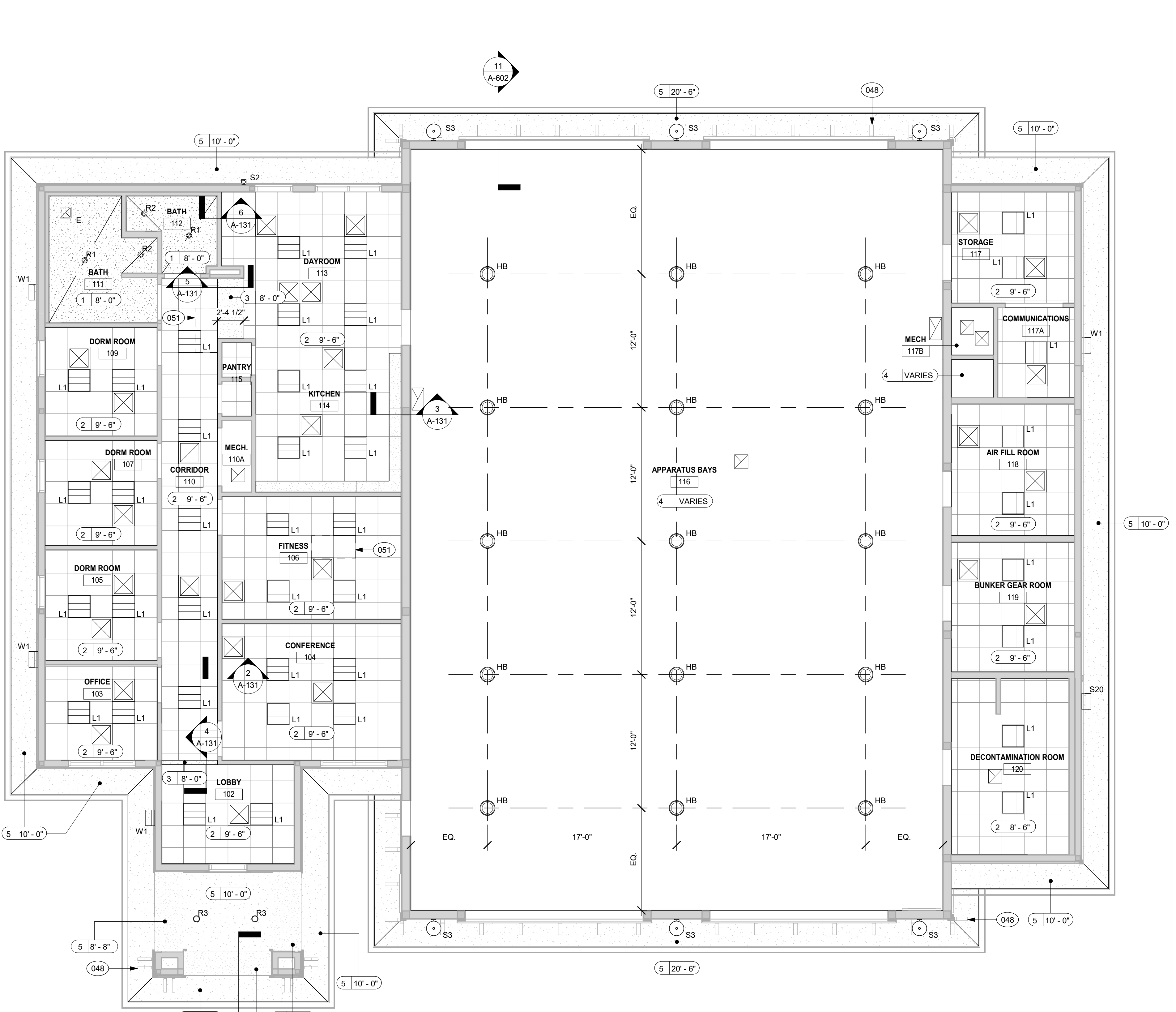
5 RCP DETAIL
1 1/2" = 1'-0"



2 RCP DETAIL
1 1/2" = 1'-0"



4 RCP DETAIL
1 1/2" = 1'-0"



1 REFLECTED CEILING PLAN
3/16" = 1'-0"

KEYNOTE LEGEND

048	PRE-FINISHED PVC DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED
051	MECHANICAL UNIT HORIZONTAL ABOVE CEILING, ACCESS THROUGH ACT - REFER TO MECHANICAL AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION

- RCP GENERAL NOTES**
- ALL FIRE SPRINKLER HEADS AND ELECTRICAL FIXTURES SHALL BE CENTERED WITHIN CEILING TILES.
 - ALL FIRE SPRINKLER HEADS IN PUBLIC AREAS SHALL BE SEMI-RECESSED HEAD DESIGN - WITH COLORS TO MATCH CEILING.
 - SEE ELECTRICAL FOR ADDITIONAL LIGHTING FIXTURE INFORMATION.

REFLECTED CEILING PLAN MATERIAL KEY

1	MOISTURE RESISTANT GYPSUM CEILING W/ SOUND BATT INSULATION ON 7/8" GALVANIZED METAL FURRING STRIPS	4	EXPOSED TO STRUCTURE - PAINTED
2	2 X 2 SUSPENDED ACOUSTIC TEGULAR GRID SYSTEM ON 9/16" GRID (095000)	5	NON-VENTED CEMENTITIOUS SOFFIT PANEL - PAINTED WHITE
3	GYPSUM CEILING ON GALVANIZED METAL FRAMING		

* SEE PLAN FOR CEILING HEIGHT DESIGNATIONS - HEIGHTS ARE FROM TOP OF SLAB

REFLECTED CEILING PLAN SYMBOL LEGEND

L1	2x2 LED CEILING LIGHT
R1	4" RECESSED LED DOWN-LIGHT FIXTURE
R2	4" RECESSED LED DOWN-LIGHT FIXTURE - MOISTURE RATED
R3	6" EXTERIOR RECESSED LED DOWN-LIGHT FIXTURE
S1	DECORATIVE INTERIOR WALL SCNCE
S2	DECORATIVE EXTERIOR LED DOWN-LIGHT WALL SCNCE
S3	DECORATIVE EXTERIOR LED WALL SCNCE
E	EXHAUST AIR GRILLE, CEILING MOUNTED (CONTRACTOR SHALL COORDINATE ALL MECH. EQUIP. WITH DRAWINGS AND SUBMIT FOR REVIEW BY ARCHITECT)
HB	LED HIGH BAY LIGHT
U	LED CEILING MOUNT 4' UTILITY LIGHT
W1	LED WALL PACK W/EMERGENCY

SYMBOL LEGEND

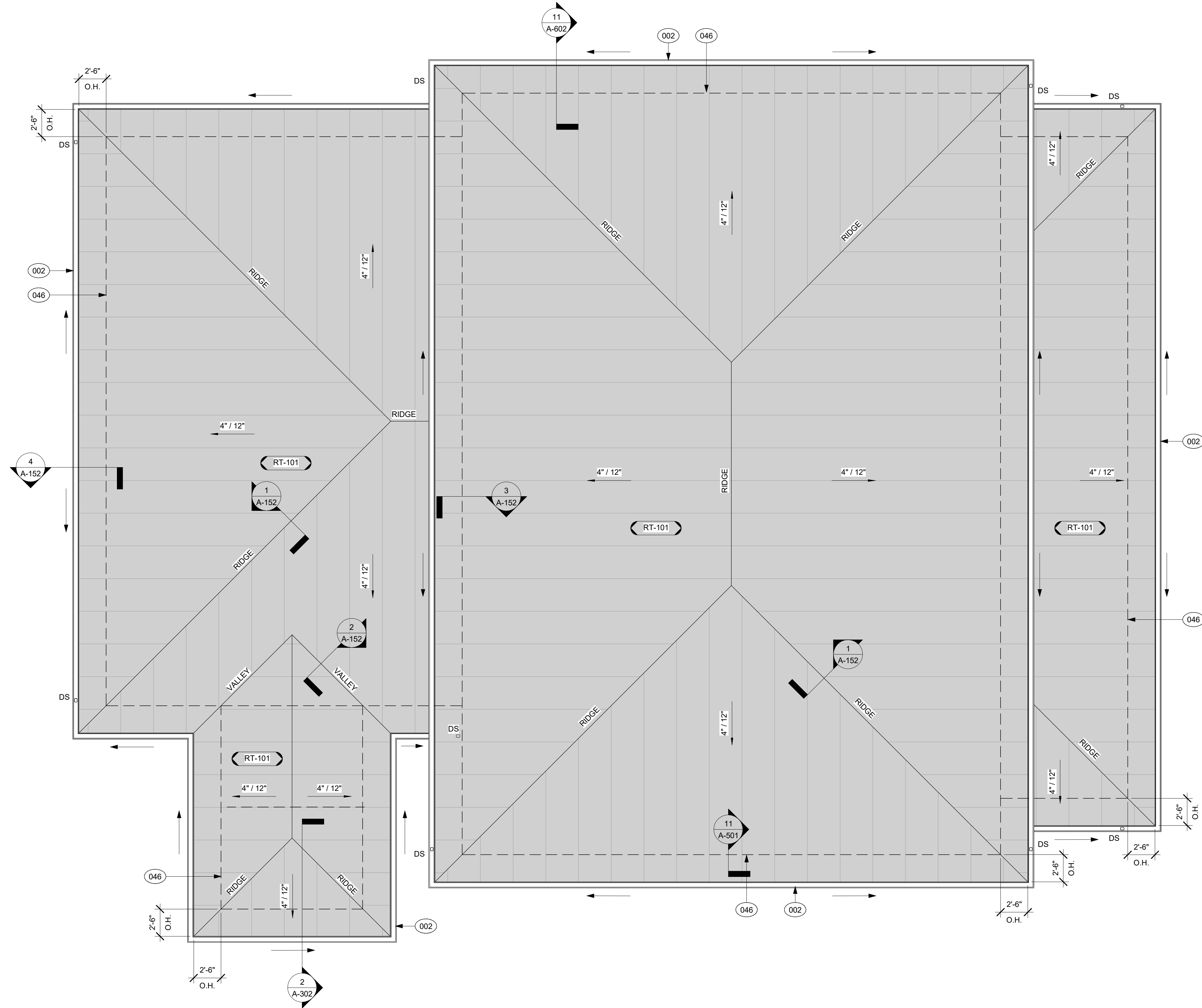
- SLOPE AND SLOPE DIRECTION
- 5"x5" PRE-FINISHED DOWNSPOUT - TIE TO UNDERGROUND STORM WATER SYSTEM - PER SECTION 07 71 23

NOTES

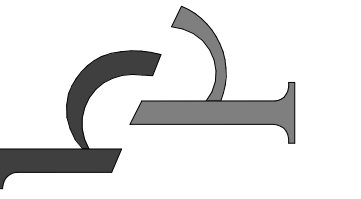
- ROOF DRAINAGE SHALL BE THROUGH GUTTERS TO DOWNSPOUTS. CONTRACTOR TO PROVIDE FINAL SHOP DRAWINGS FOR APPROVAL BY ARCHITECT PRIOR TO INSTALLATION.
- ALL ROOF DOWNSPOUTS SHALL BE CONNECTED TO A LOCAL AREA DRAIN AND TIED INTO THE STORM WATER SYSTEM. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
- GENERAL CONTRACTOR TO REQUIRE ROOF MANUFACTURER TO PERFORM AN ONSITE ROOF INSPECTION WITH THE OWNER FOR FINAL SIGN OFF. MANUFACTURER SHALL PROVIDE AN INSPECTION REPORT AND RECOMMENDATIONS.

KEYNOTE LEGEND

002	6"x6" PRE-FINISHED SEAMLESS GUTTER SYSTEM WITH DOWNSPOUTS, CONNECT TO STORMWATER SYSTEM - PER SECTION 07 71 23
046	FACE OF STUD BELOW

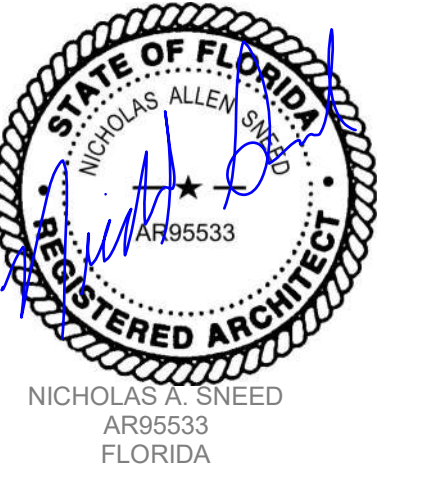


1 ROOF PLAN
3/16" = 1'-0"



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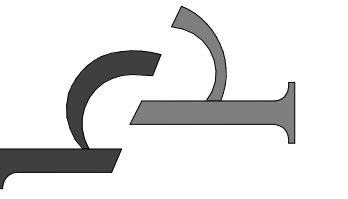
PROJECT NO. 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: ROOF PLAN

SHEET NUMBER: A-151

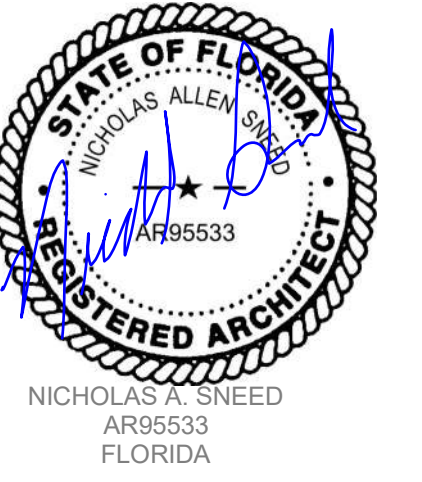
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#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE:

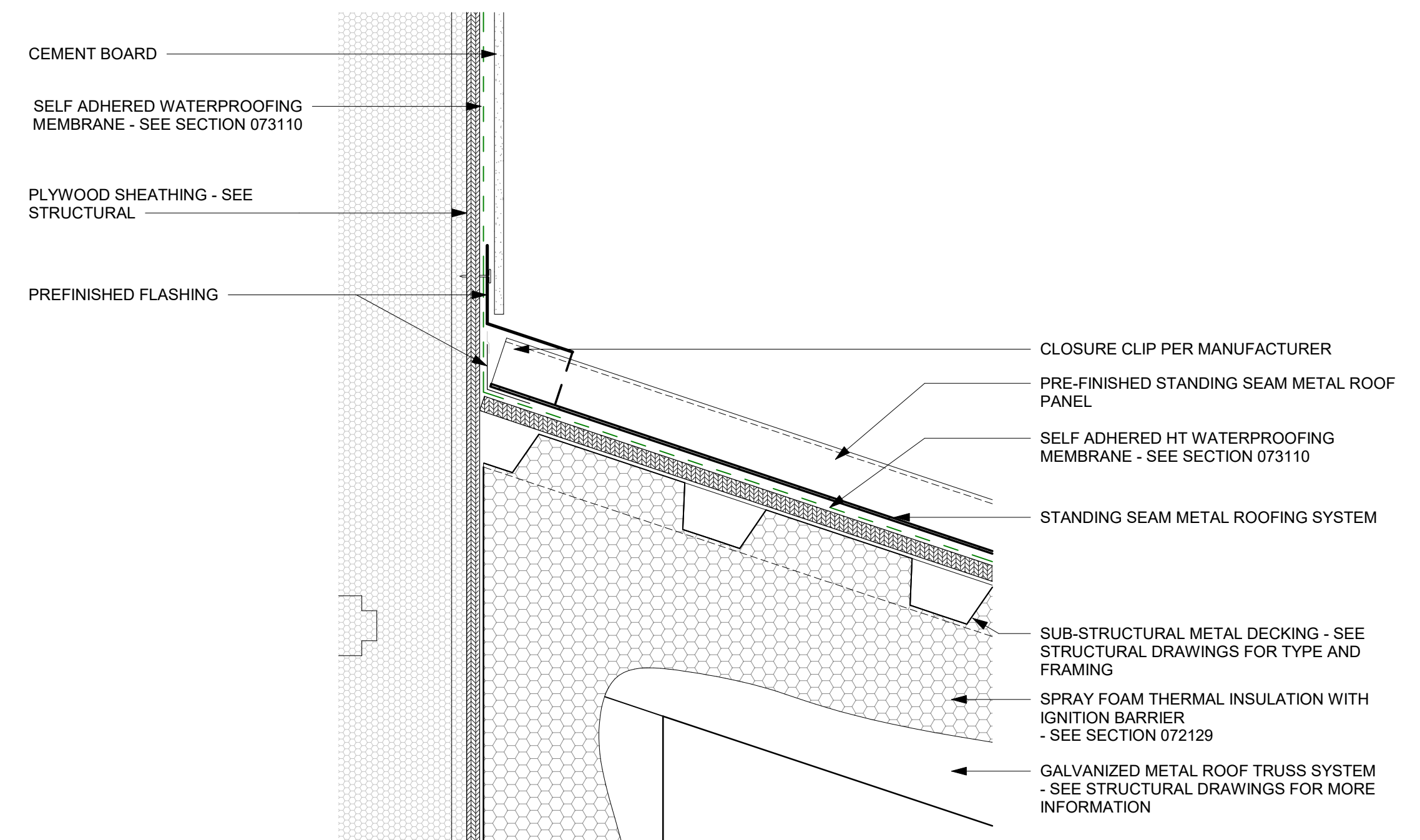
ROOF DETAILS

SHEET NUMBER:

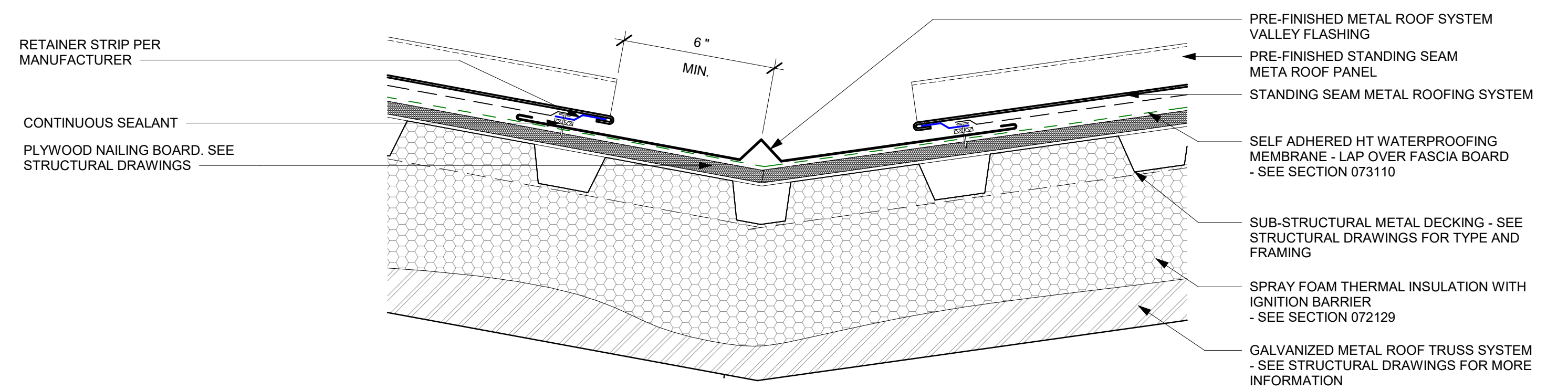
A-152

EDITION:

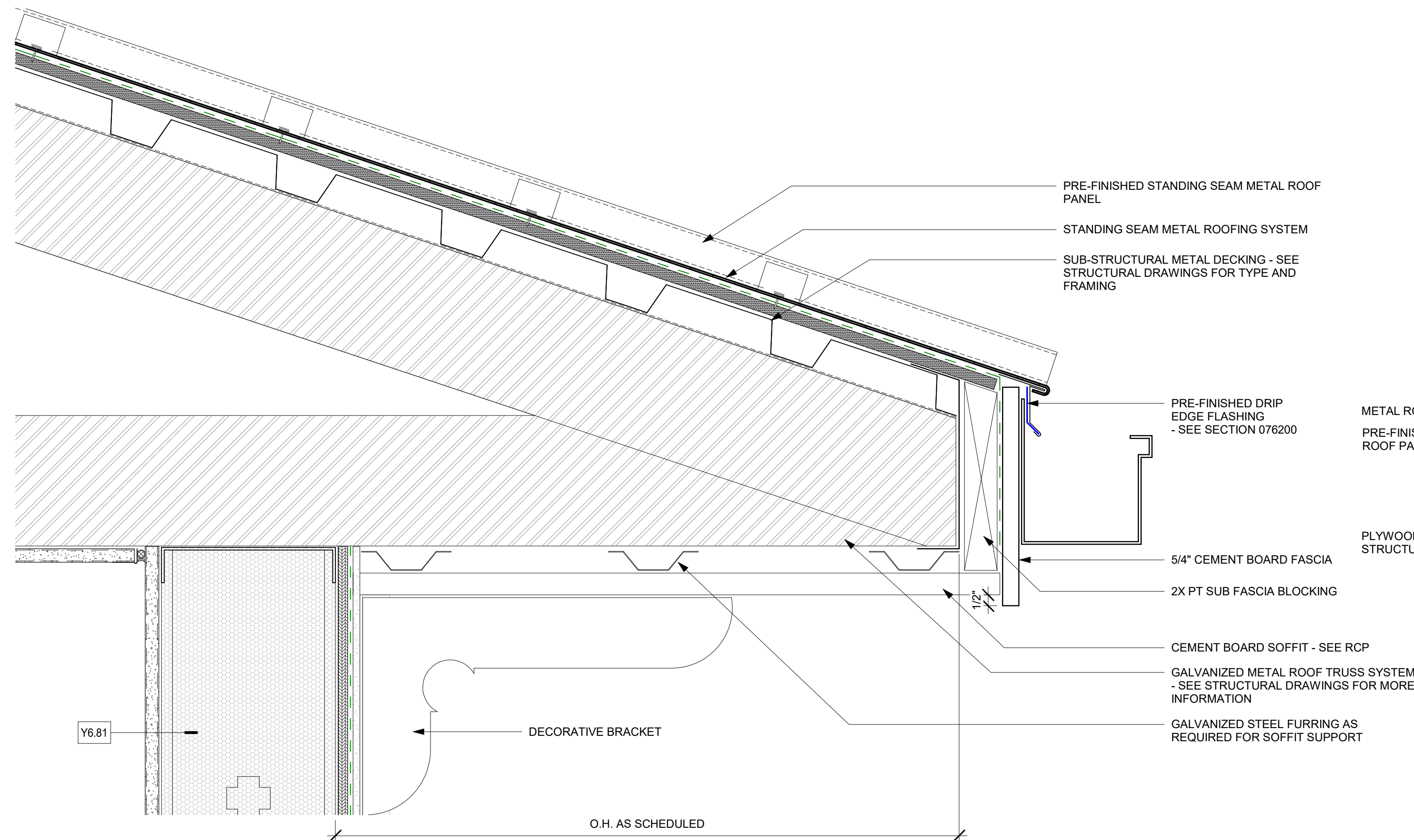
FOR PERMIT - BID



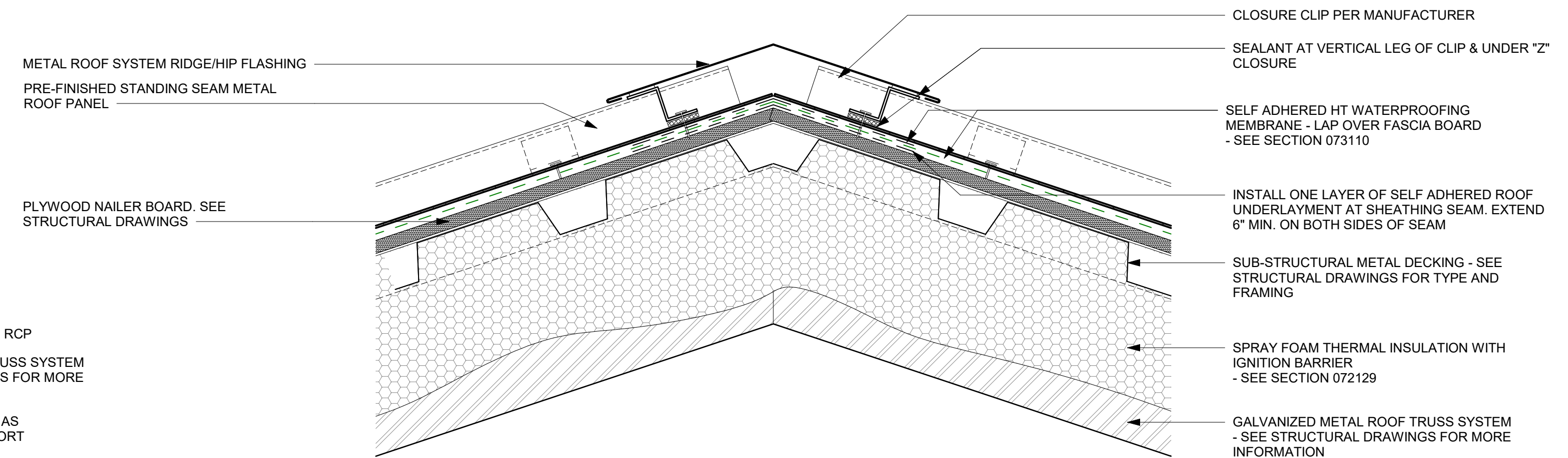
3 ROOF TO BUILDING DETAIL
3" = 1'-0"



2 VALLEY DETAIL
3" = 1'-0"



4 EVE AND GUTTER DETAIL
3" = 1'-0"



1 RIDGE DETAIL
3" = 1'-0"

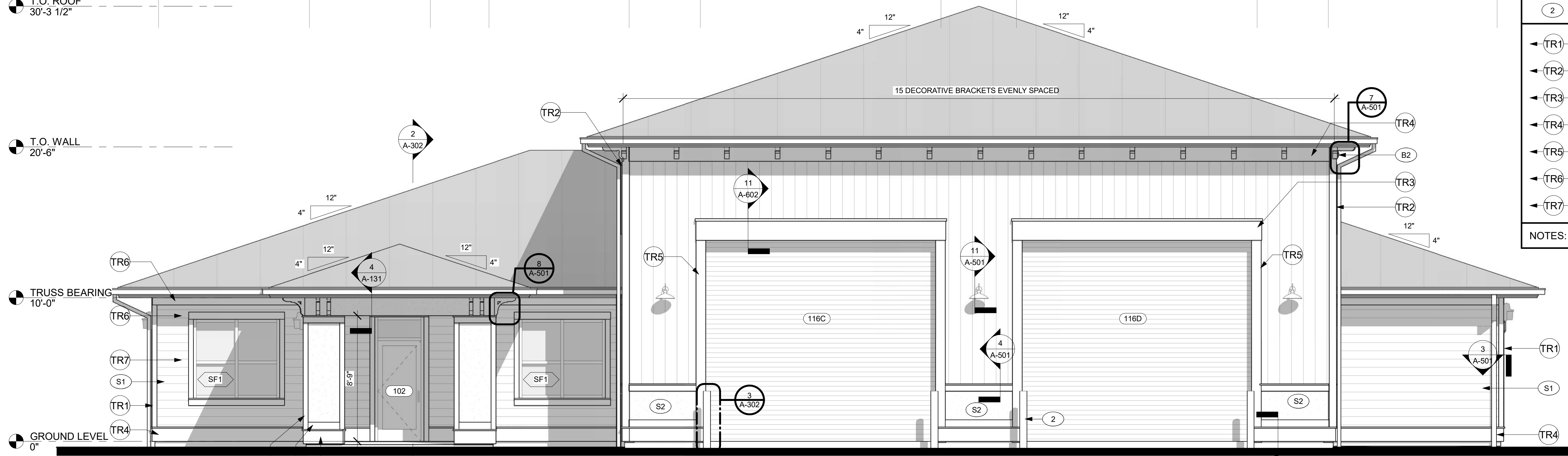
T.O. ROOF
30'-3 1/2"

T.O. WALL
20'-6"

TRUSS BEARING
10'-0"

GROUND LEVEL
0"

1 2 3 4 5 6 7 8 9 10 11



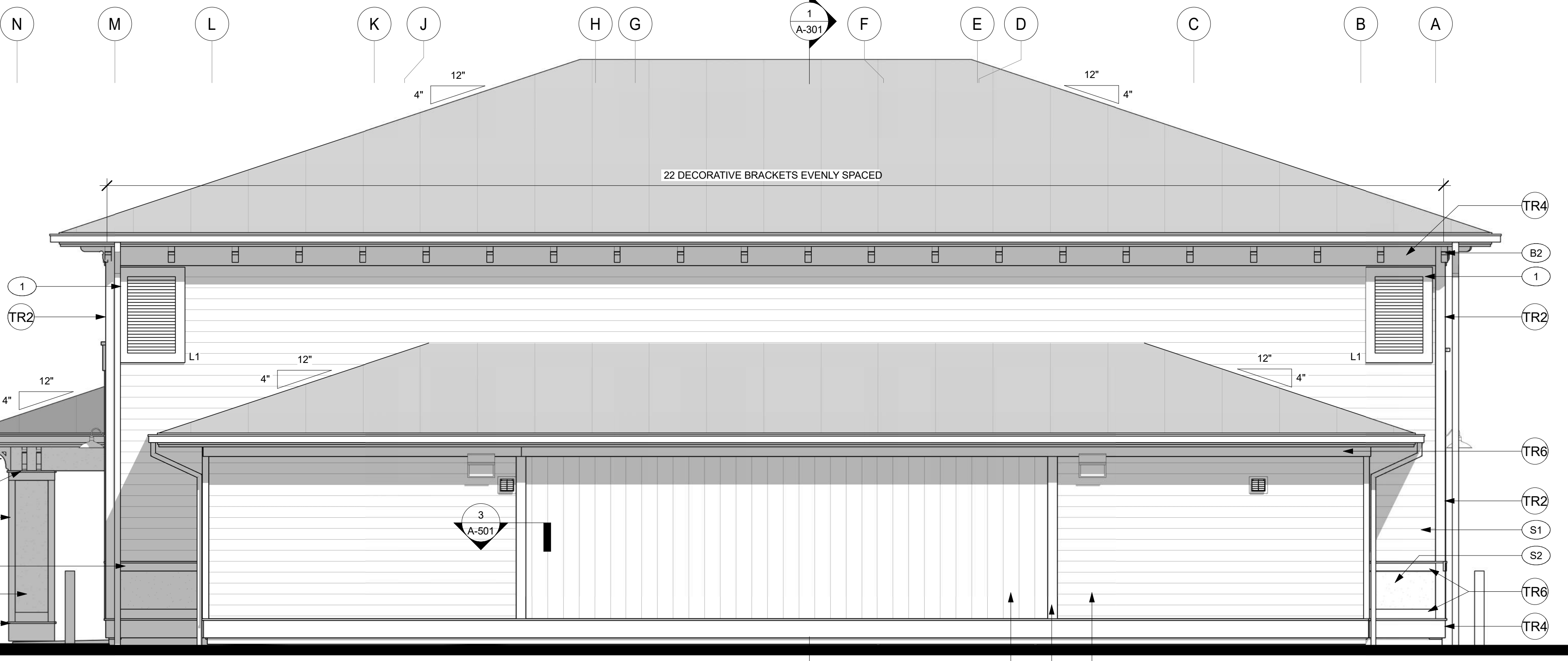
2 SOUTH ELEVATION
1/4" = 1'-0"

T.O. ROOF
30'-3 1/2"

T.O. WALL
20'-6"

TRUSS BEARING
10'-0"

GROUND LEVEL
0"

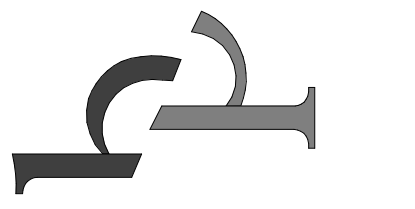


4 EAST ELEVATION
1/4" = 1'-0"

MATERIAL / COLOR LEGEND

S1	HARDIE PLANK 10" REVEAL LAP SIDING - TAN
S2	HARDIE PANEL SMOOTH BOARD AND BATTEN SIDING WITH SMOOTH BATTEN BOARDS - WHITE
B1	12" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
B2	10" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
1	30x48 EXHAUST VENT
2	9" BOLLARD
TR1	4" HARDIE CORNER TRIM BOARD - WHITE
TR2	8" HARDIE CORNER TRIM BOARD - WHITE
TR3	16" HARDIE TRIM BOARD - WHITE
TR4	12" HARDIE TRIM BOARD - WHITE
TR5	8" HARDIE TRIM BOARD - WHITE
TR6	6" HARDIE TRIM BOARD - WHITE
TR7	4" HARDIE TRIM BOARD - WHITE

NOTES: ALL TRIM SHALL BE PROVIDED IN SMOOTH FINISH



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(850) 528-8540 | ARCHITECTUREBP.COM

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COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE:

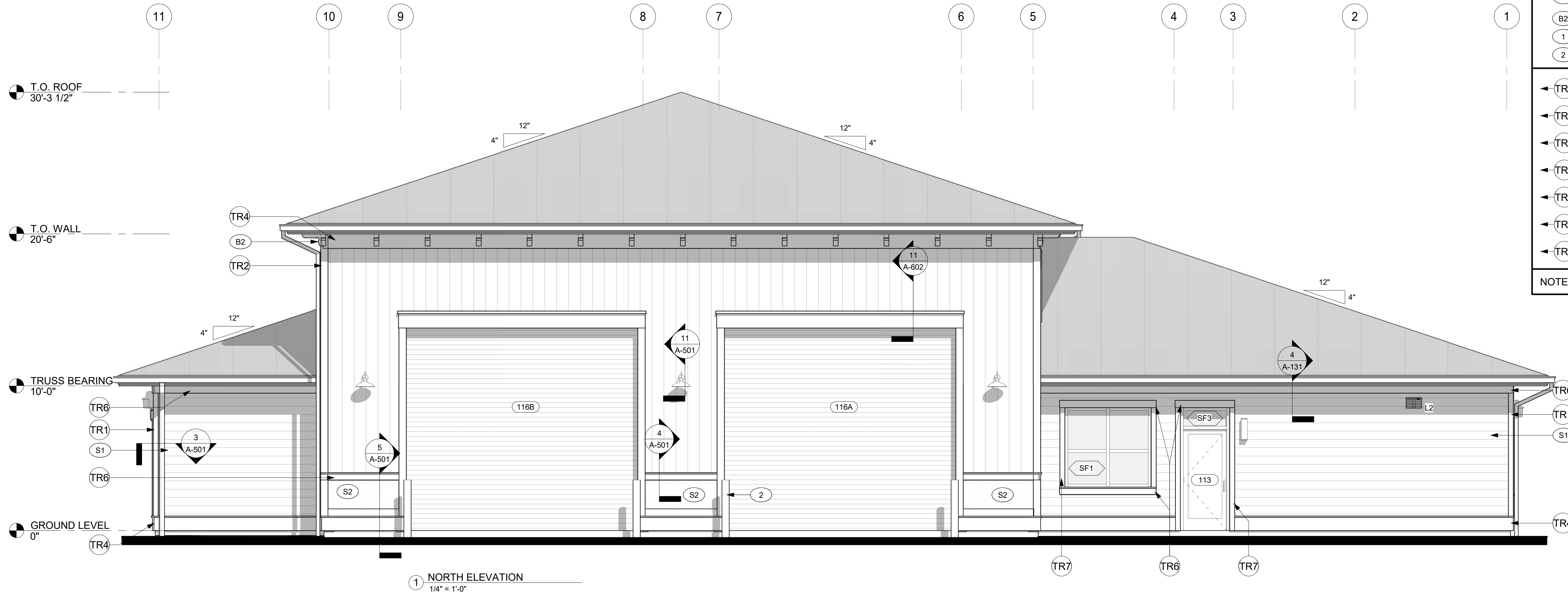
EXTERIOR ELEVATIONS

SHEET NUMBER:

A-201

EDITION:

FOR PERMIT - BID



MATERIAL / COLOR LEGEND

(S1)	HARDIE PLANK 10" REVEAL LAP SIDING - TAN
(S2)	HARDIE PANEL SMOOTH BOARD AND BATTEN SIDING WITH SMOOTH BATTEN BOARDS - WHITE
(B1)	12" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
(B2)	10" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
(1)	30x48 EXHAUST VENT
(2)	9" BOLLARD
(TR1)	4" HARDIE CORNER TRIM BOARD - WHITE
(TR2)	8" HARDIE CORNER TRIM BOARD - WHITE
(TR3)	16" HARDIE TRIM BOARD - WHITE
(TR4)	12" HARDIE TRIM BOARD - WHITE
(TR5)	8" HARDIE TRIM BOARD - WHITE
(TR6)	6" HARDIE TRIM BOARD - WHITE
(TR7)	4" HARDIE TRIM BOARD - WHITE

NOTES: ALL TRIM SHALL BE PROVIDED IN SMOOTH FINISH

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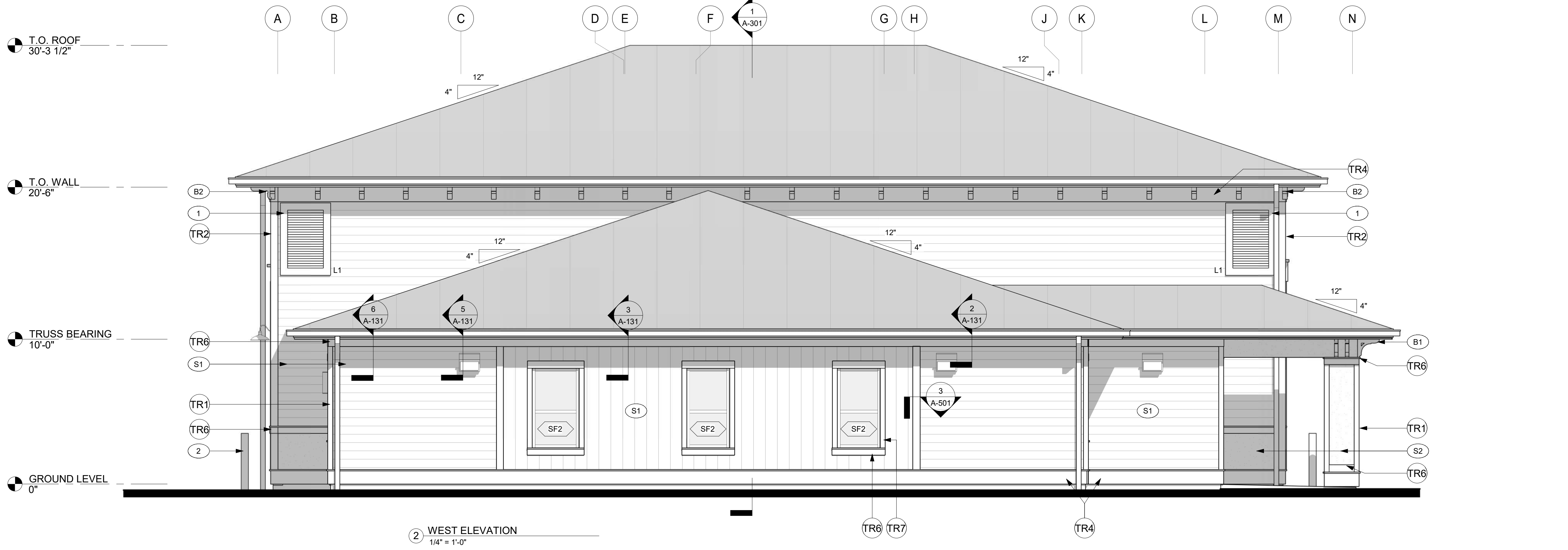


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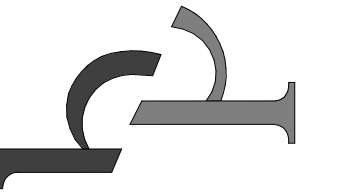
ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014
 ISSUE DATE: 09.18.2024
 DRAWING TITLE: EXTERIOR ELEVATIONS
 SHEET NUMBER: A-202
 EDITION: FOR PERMIT - BID

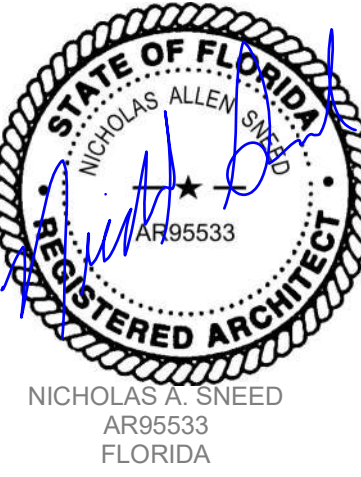


KEYNOTE LEGEND	
018	CAST IN PLACE CONCRETE SLAB OVER 20 MIL. MINIMUM VAPOR RETARDER OVER COMPACTED GRADE - REFER TO STRUCTURAL DRAWINGS, GEOTECH REPORT, AND SECTION 03 29 00
027	FLOOR DRAIN - REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION
031	FINISH GRADE. REFER TO CIVIL DRAWINGS FOR MORE INFORMATION
111	PRE-MANUFACTURED TRUSS - REFER TO STRUCTURAL DRAWINGS



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ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

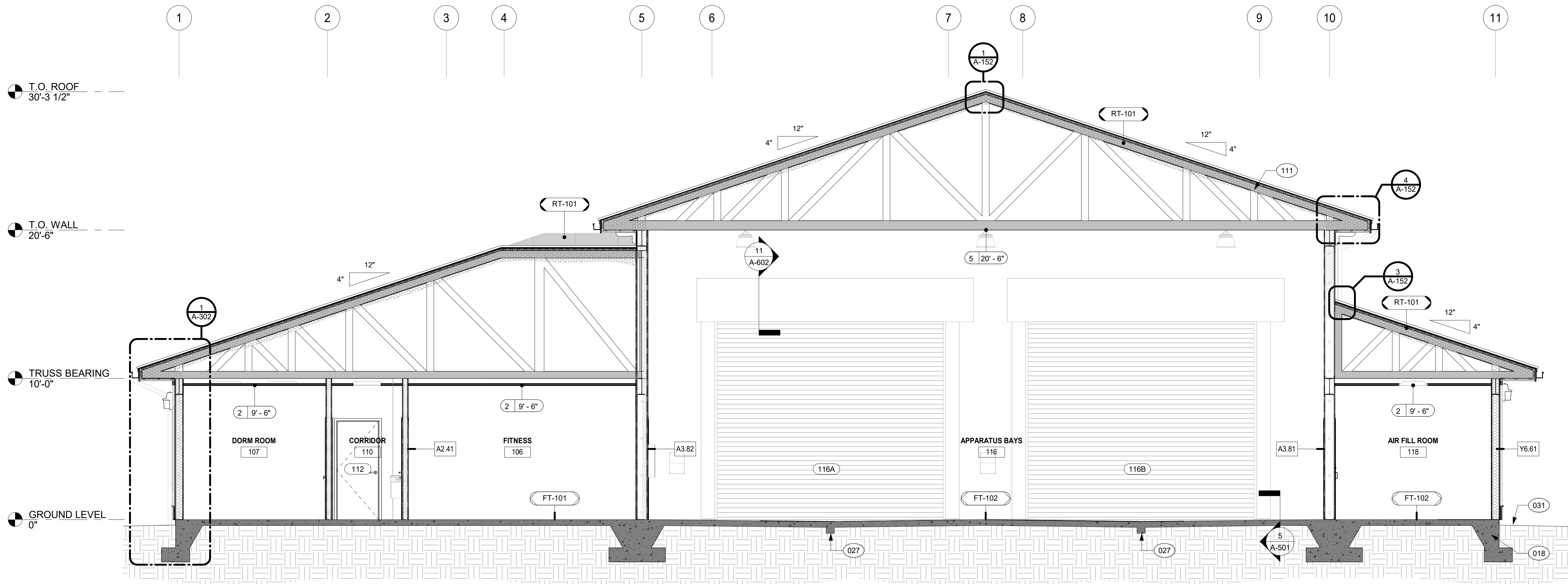
DRAWING TITLE: BUILDING SECTIONS

BUILDING SECTIONS

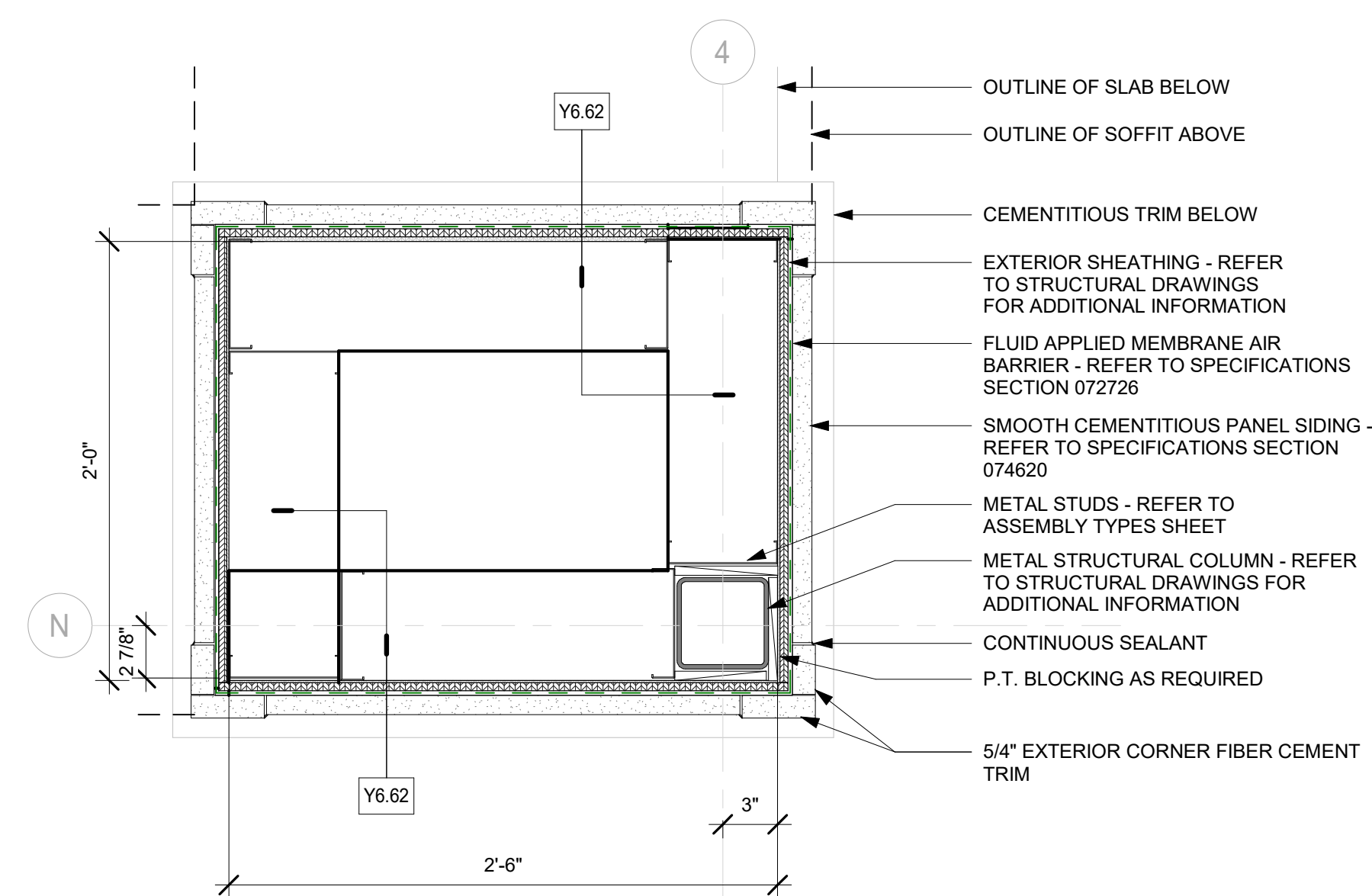
SHEET NUMBER: A-301

EDITION: FOR PERMIT - BID

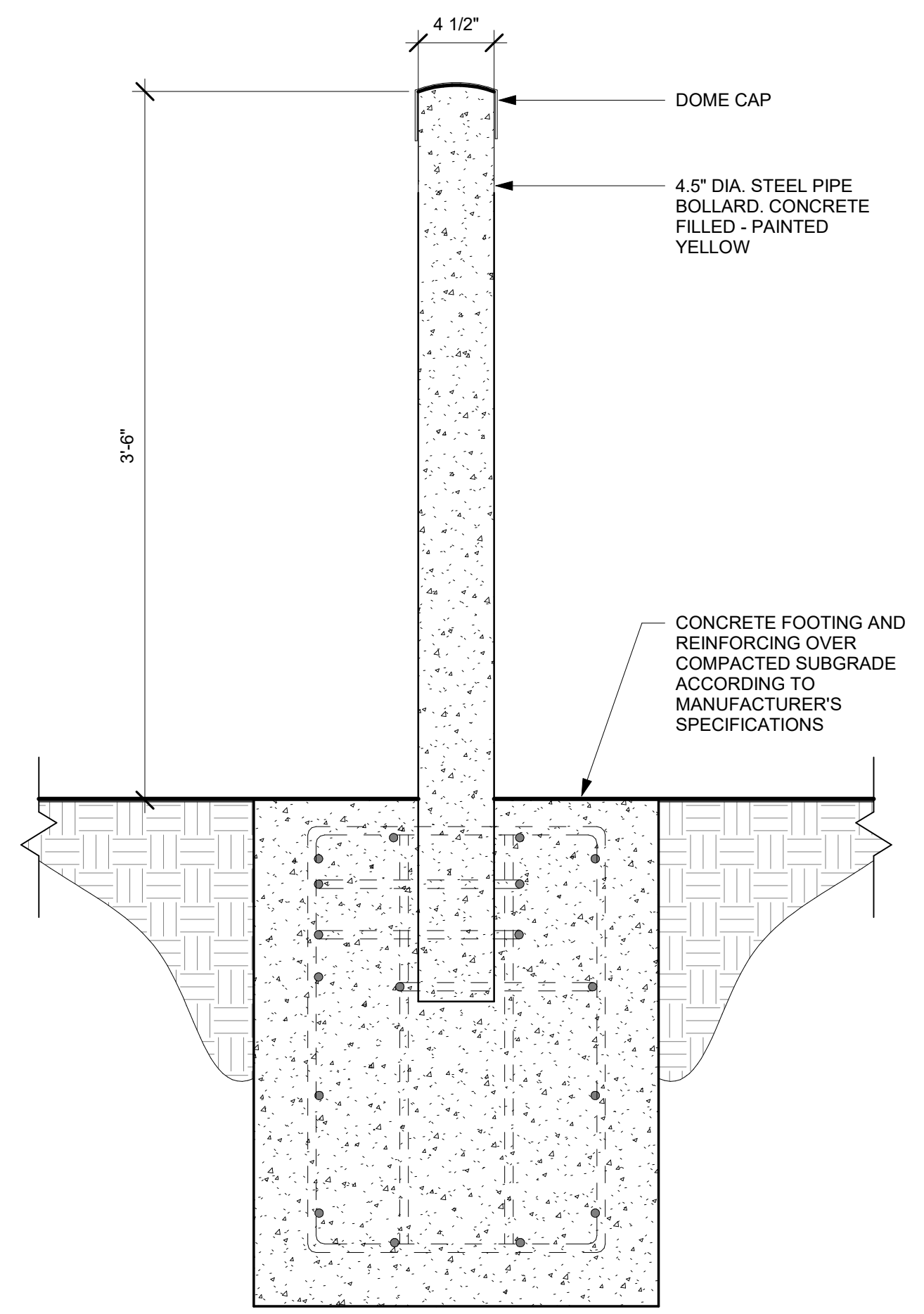
FOR PERMIT - BID



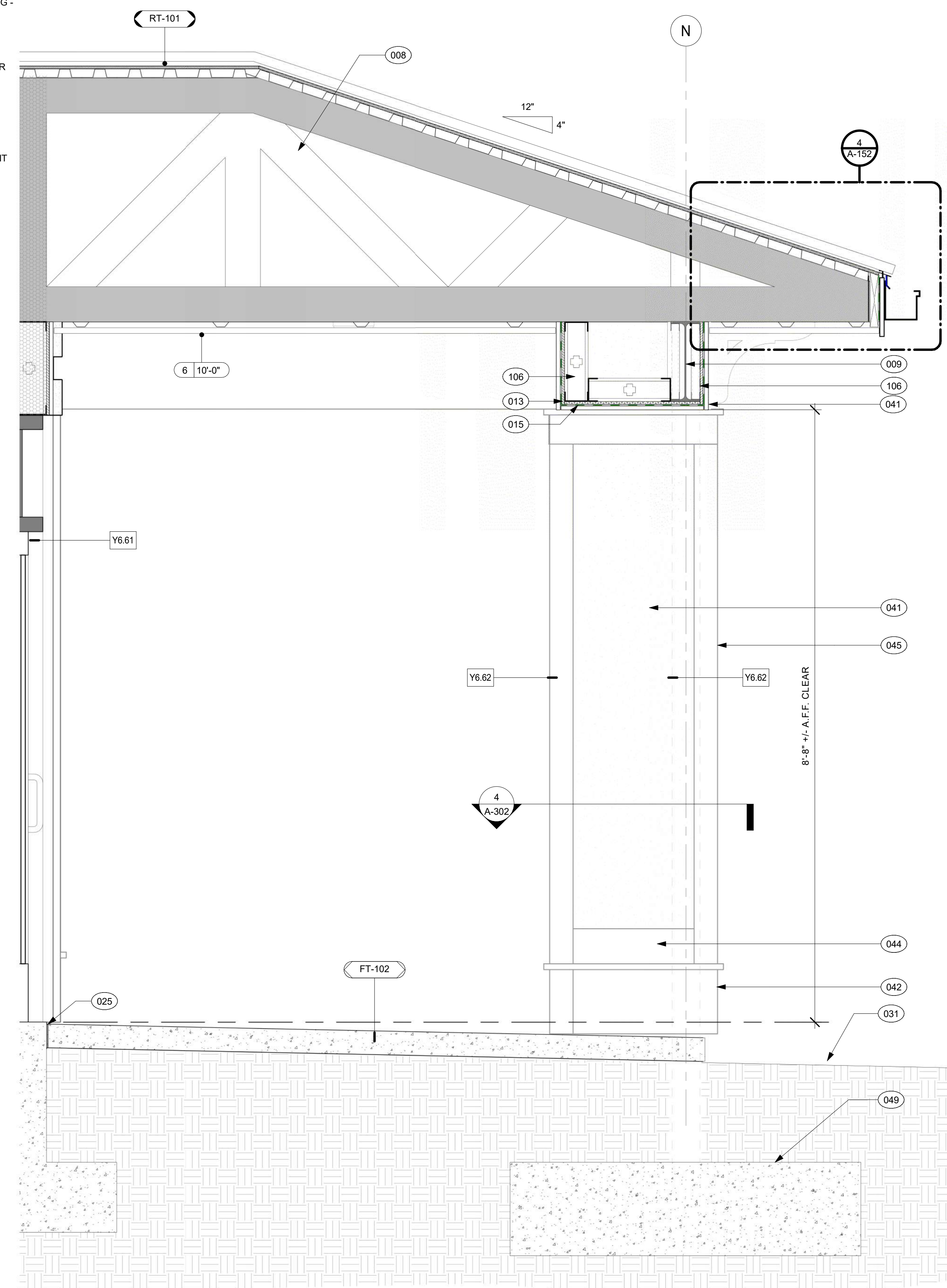
1 BUILDING SECTION
 1/4" = 1'-0"



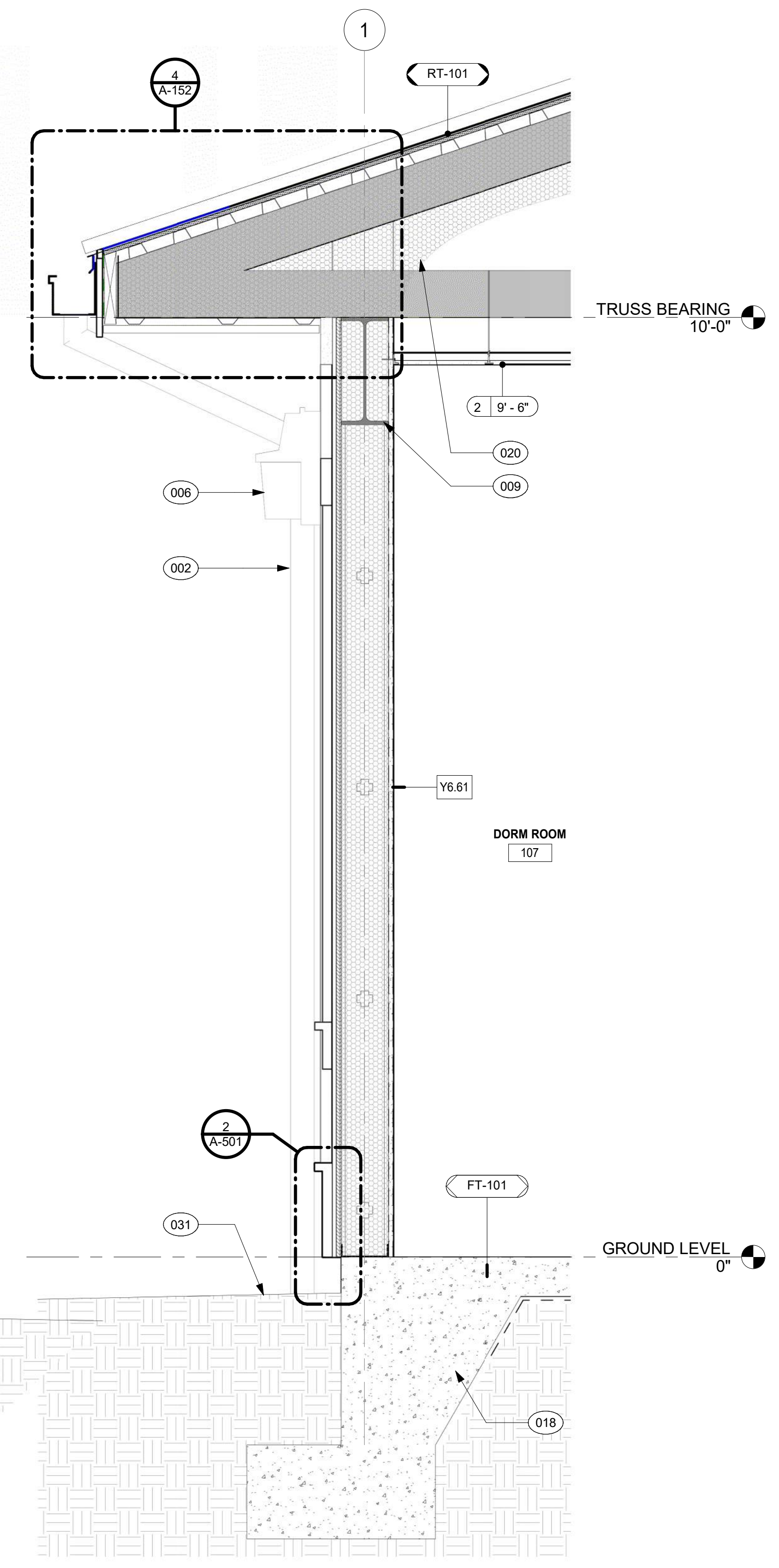
4 ENTRY COLUMN DETAIL
1 1/2" = 1'-0"



3 BOLLARD DETAIL
1 1/2" = 1'-0"



2 ENTRY SECTION
1" = 1'-0"



1 WALL SECTION 01
1" = 1'-0"

KEYNOTE LEGEND	
002	6"x6" PRE-FINISHED SEAMLESS GUTTER SYSTEM WITH DOWNSPOUTS, CONNECT TO STORMWATER SYSTEM - PER SECTION 07 71 23
006	EXTERIOR LIGHT FIXTURE, REFER TO THE ELECTRICAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION
008	GALVANIZED METAL TRUSS SYSTEM - 48" O.C. REFERENCE STRUCTURAL DRAWINGS
009	STRUCTURAL STEEL BEAM - REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
013	1/2" THICK NAILER BOARD OVER METAL DECKING - PER SECTION 07 29 01
015	CONTINUE THERMAL INSULATION AND WATERPROOF MEMBRANE ON EXTERIOR WALL UP THROUGH AND AROUND TRUSS CAVITIES TO COMPLETE THERMAL BARRIER - PER SECTION 07 27 20
018	CAST IN PLACE CONCRETE SLAB OVER 20 MIL. MINIMUM VAPOR RETARDER OVER COMPACTED GRADE - REFERENCE STRUCTURAL DRAWINGS, GEOTECH REPORT, AND SECTION 03 29 00
020	OPEN CELL SPRAY FOAM INSULATION - PER SECTION 07 21 29
025	1/2" EXPANSION JOINT MATERIAL - REFER TO STRUCTURAL DRAWINGS AND SECTION 07 84 13 FOR INFORMATION
031	FINISH GRADE, REFER TO CIVIL DRAWINGS FOR MORE INFORMATION
041	SMOOTH HARDIE PANEL SIDING
042	5/4"x12" COMPOSITE TRIM BOARD
044	5/4"x6" COMPOSITE TRIM BOARD
045	5/4"x4" COMPOSITE TRIM BOARD
049	CONCRETE FOOTING - REFER TO STRUCTURAL DRAWINGS
106	GALVANIZED METAL STUD FRAMING AT 16" O.C. OR AS REQUIRED - PER SECTION 09 22 16

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COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

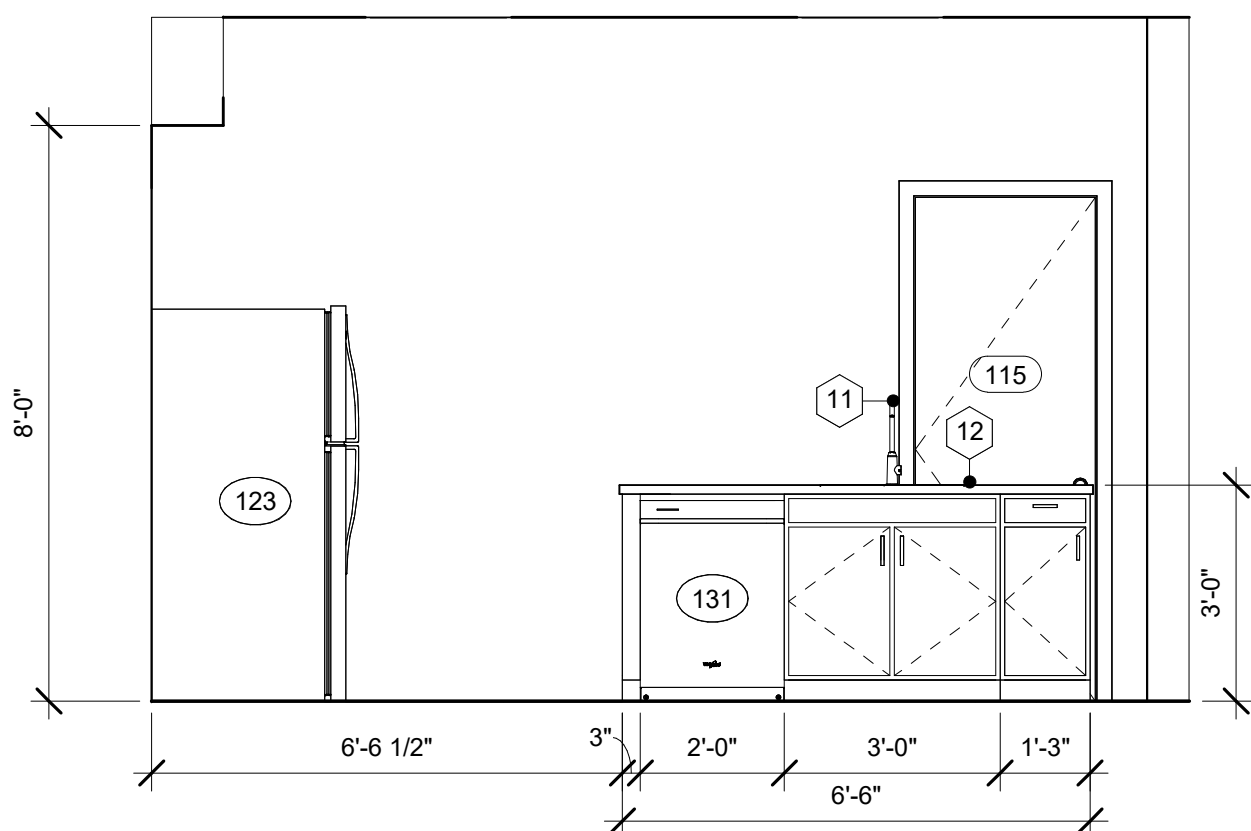
#	Date	Description

PROJECT NO: 23.014
ISSUE DATE: 09.18.2024
DRAWING TITLE: WALL SECTION & DETAILS
SHEET NUMBER: A-302
EDITION: FOR PERMIT - BID

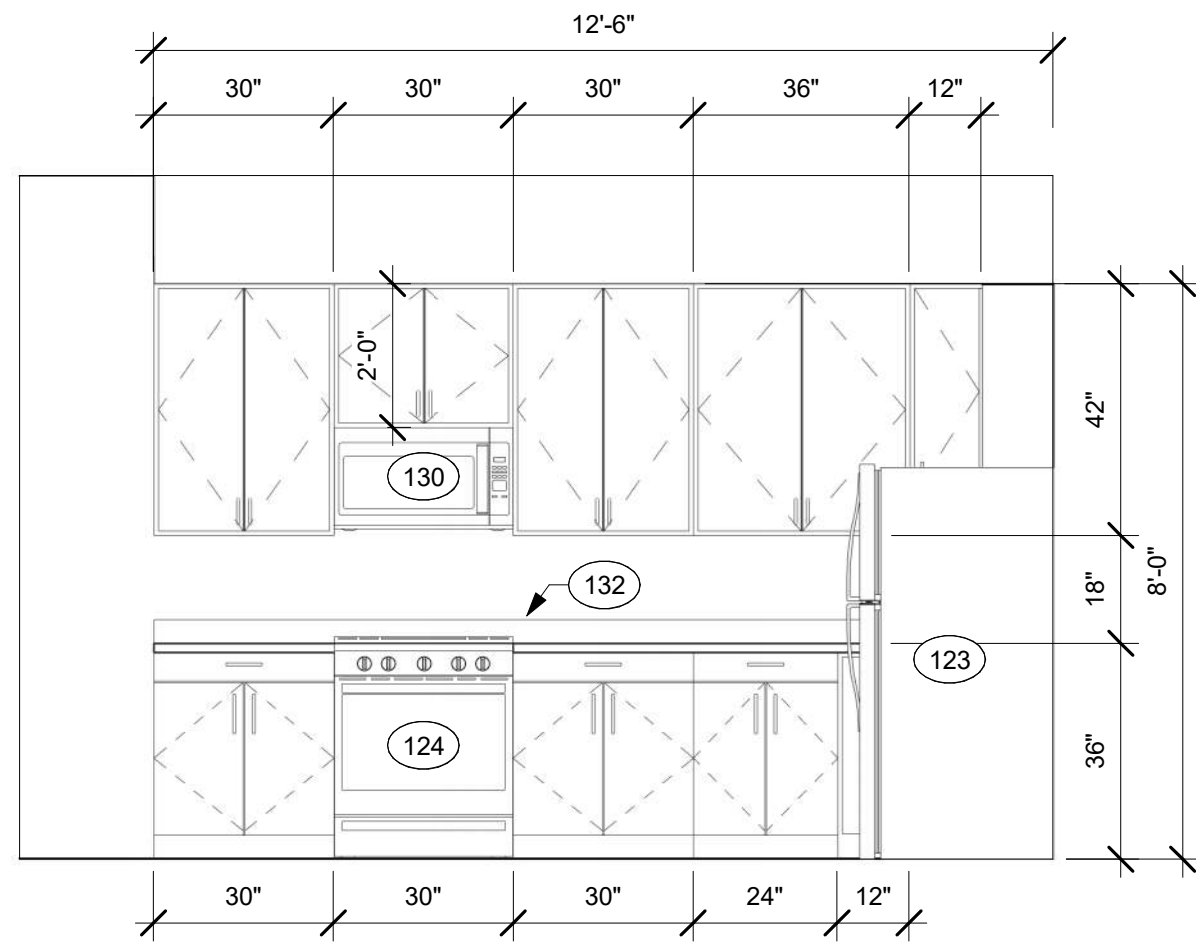
REFER TO INTERIOR DESIGN PRODUCT SPECIFICATION BOOK FOR EQUIPMENT SPECIFICATIONS

KEYNOTE LEGEND

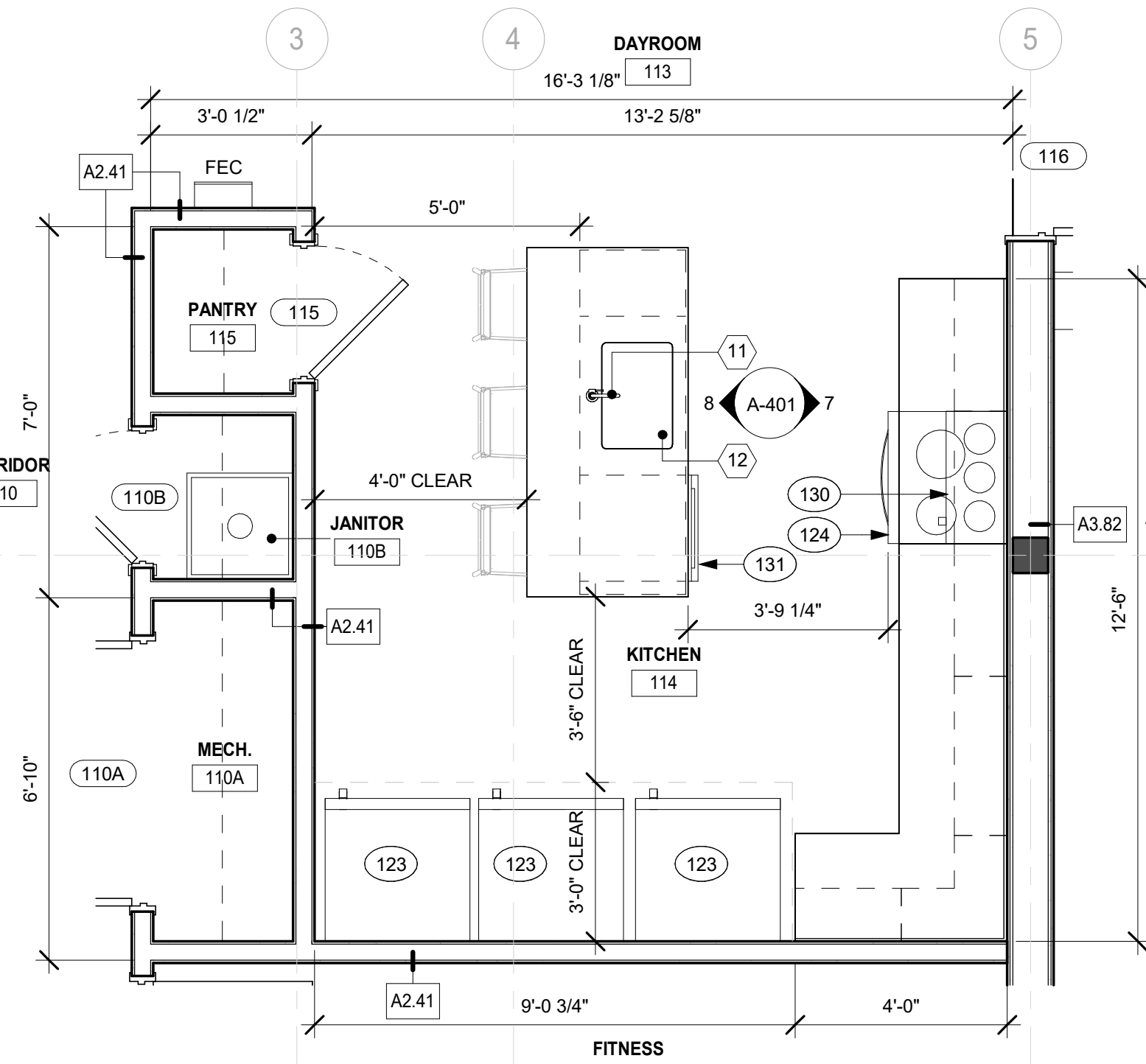
123	REFRIGERATOR
124	ELECTRIC RANGE
130	MICROWAVE RANGE HOOD
131	DISHWASHER
132	BACKSPASH TO MATCH COUNTERTOP
133	FRONT LOAD CLOTHES WASHING MACHINE
134	FRONT LOAD CLOTHES DRYER
135	GEAR WASHER-EXTRACTOR
136	GEAR DRYING CABINET



8 KITCHEN 114 - 02
3/8" = 1'-0"



7 KITCHEN 114 - 01
3/8" = 1'-0"

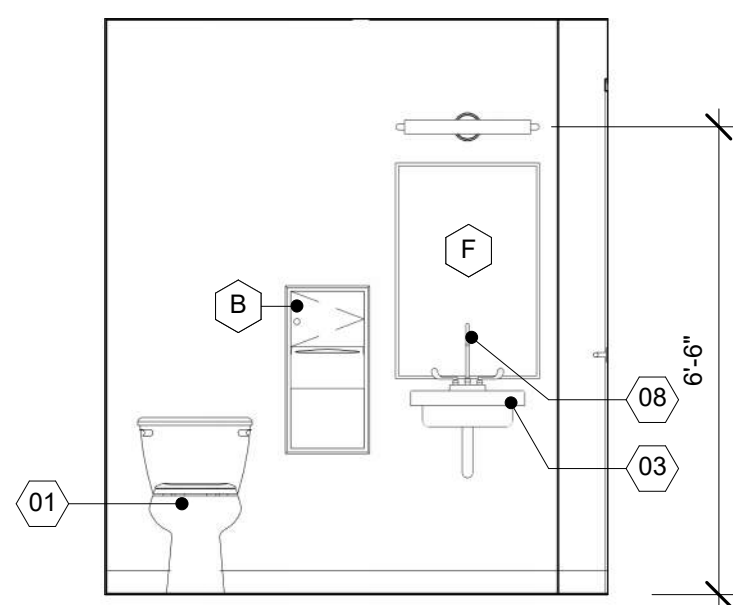


6 ENLARGED KITCHEN PLAN
3/8" = 1'-0"

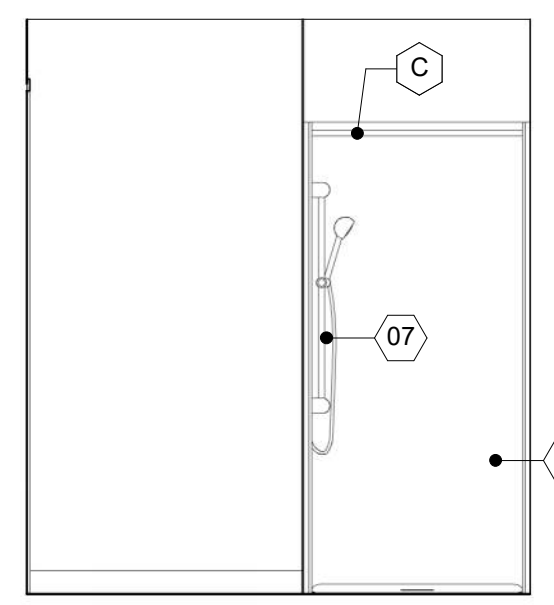
KEY SCHEDULES

ACCESSORY SCHEDULE			PLUMBING FIXTURE SCHEDULE (ARCH.)		
MARK	TAG	ITEM/DESCRIPTION	MARK	TAG	ITEM/DESCRIPTION
A	ACC-2	TOILET TISSUE DISPENSER	01	WC-1	STANDARD WATER CLOSET
B	ACC-12	PAPER TOWEL DISPENSER AND WASTE	02	WC-2	ACCESSIBLE WATER CLOSET
C	ACC-6	CURTAIN ROD	03	L-1	STANDARD WALL MOUNTED OR IN-COUNTER SINK OR LAV.
D	ACC-10	42" LONG GRAB BAR	04	L-1	ACCESSIBLE WALL MOUNTED OR IN-COUNTER SINK OR LAV.
E	ACC-11	36" GRAB BAR	05	SH-1	ADA SHOWER KIT-38"
F	ACC-7	WALL MIRROR	06	EWC-1	WATER COOLER
G	-	CURTAIN ROD - ORDER WITH SHOWER KIT	07	SH	SHOWER FAUCET
H	ACC-5	ROBE HOOK	08	FAC-2	VANITY FAUCET
J	-	GRAB BAR - INCLUDED IN ADA SHOWER KIT	09	SH-2	SHOWER KIT
K	-	SHOWER SEAT - INCLUDED IN ADA SHOWER KIT	10	SH-3	SHOWER KIT - 48"
			11	FAC-1	KITCHEN FAUCET
			12	SINK-1	KITCHEN SINK
			13	ACC-1	EYEWASH STATION - G.C. TO PROVIDE AS ALTERNATE
			14	SNK-2	LAUNDRY SINK

NOTES:
 1. PROVIDE SOLID WOOD FIRE RETARDANT WOOD BLOCKING FOR MOUNTING/INSTALLING ALL ACCESSORIES.
 2. GC SHALL COORDINATE WITH ARCHITECT FOR FINAL SELECTIONS OF FINISHES AND ACCESSORIES.
 3. GC SHALL COORDINATE WITH ARCHITECT FOR ANY ADDITIONAL ACCESSORIES OR INSTALLATION CRITERIA NOT LISTED HEREIN.
 4. REFER TO INTERIOR DESIGN SPECIFICATION BOOK FOR ACCESSORY SPECS.

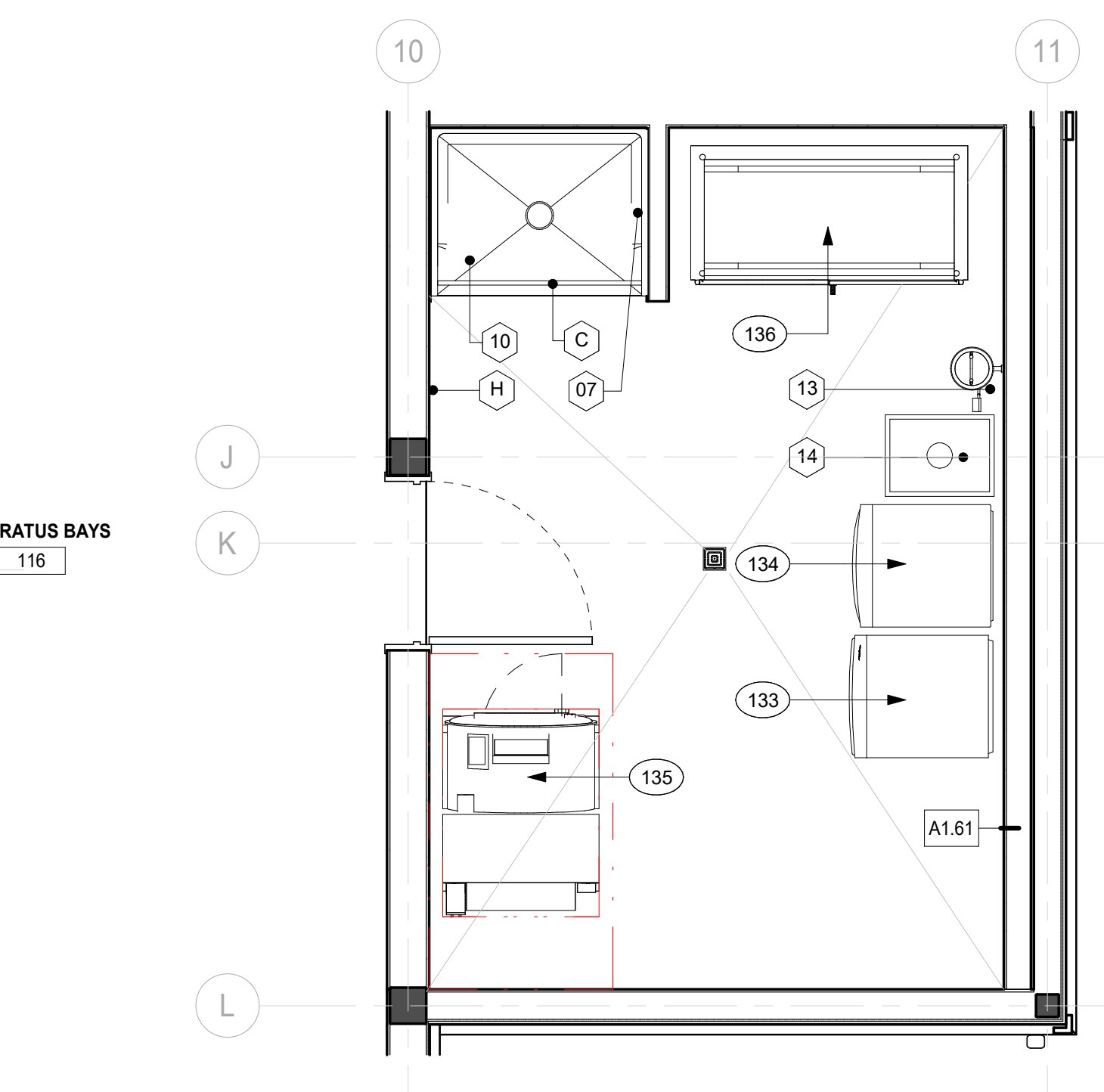
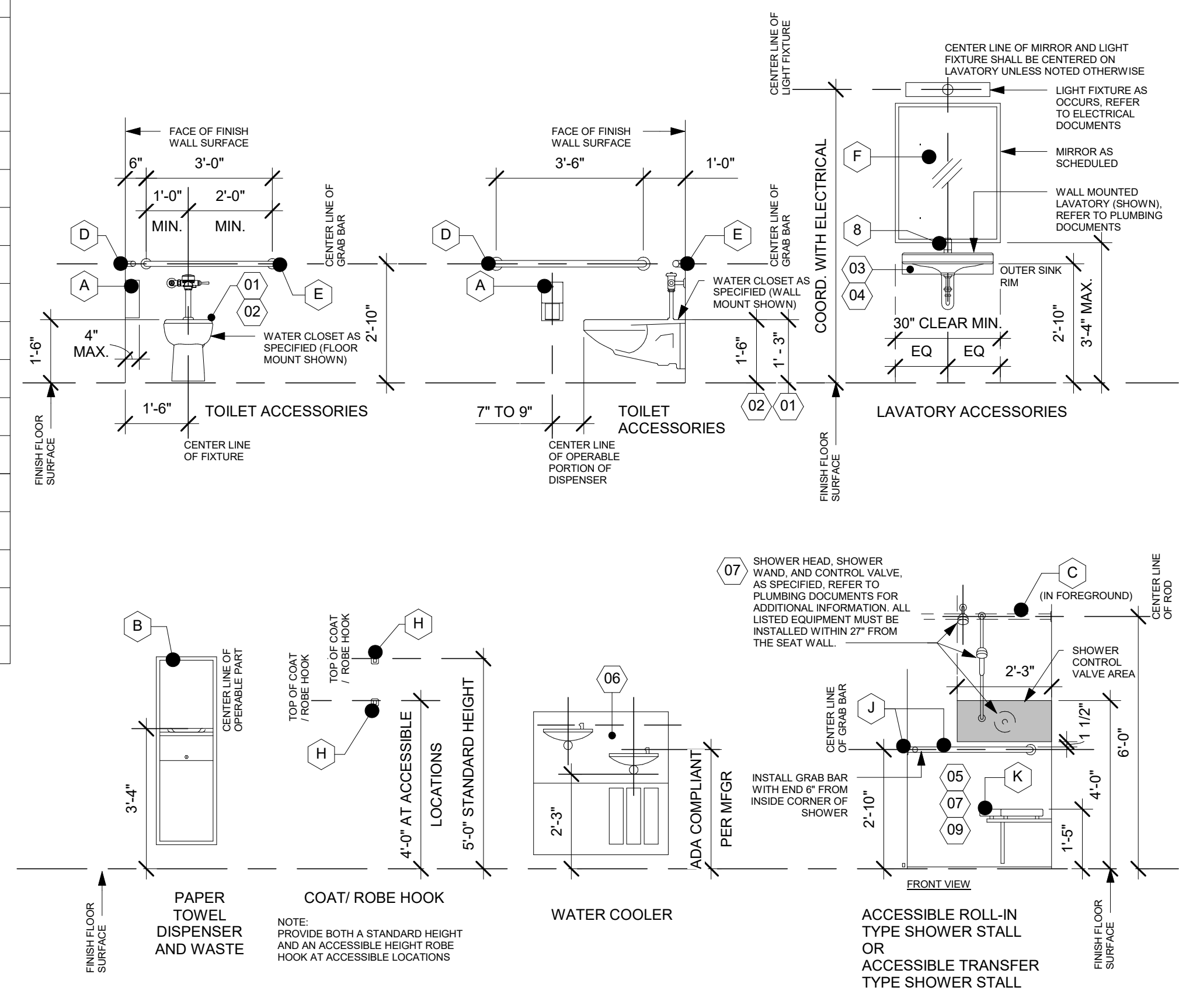


5 BATH 112 - 02
3/8" = 1'-0"

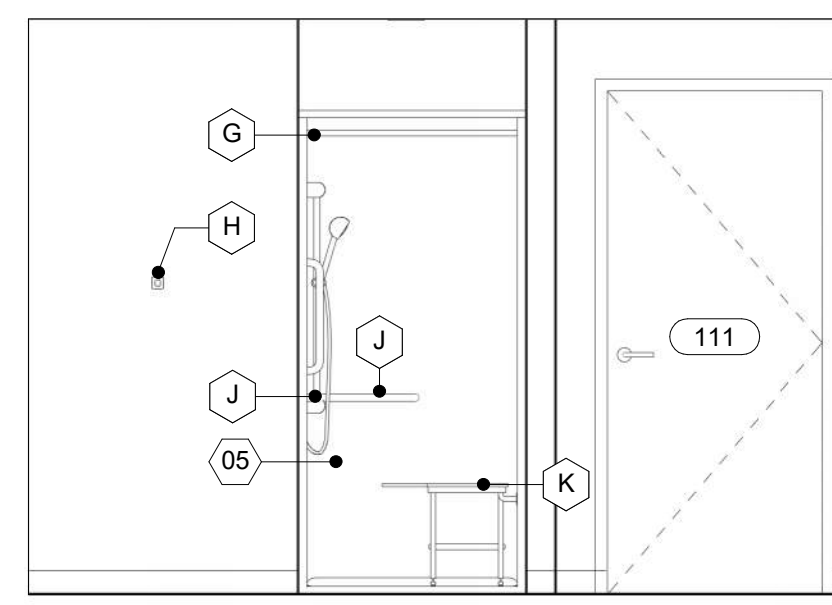


4 BATH 112 - 01
3/8" = 1'-0"

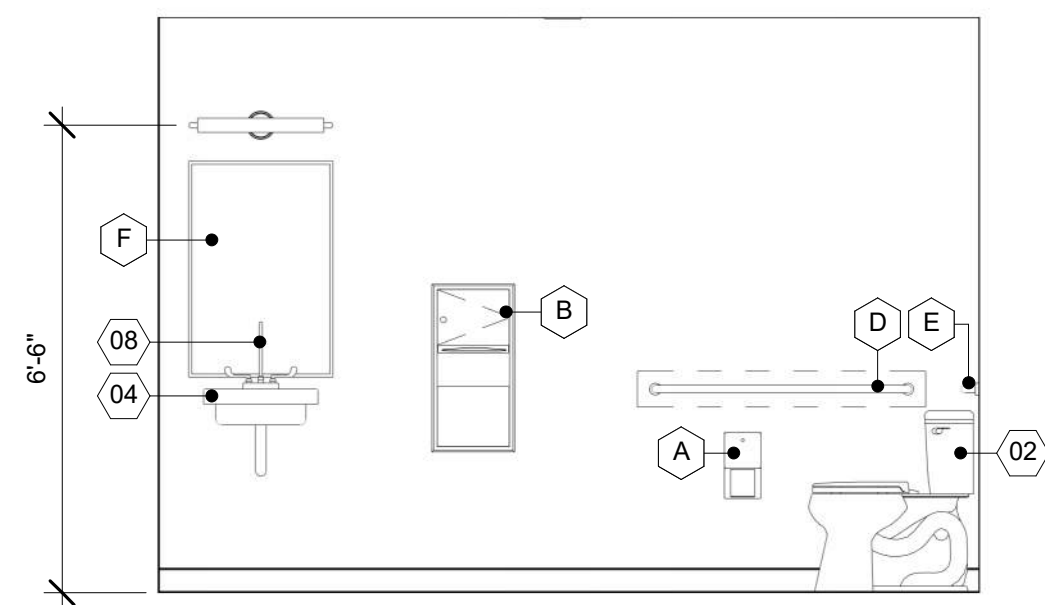
TYPICAL MOUNTING REQUIREMENTS



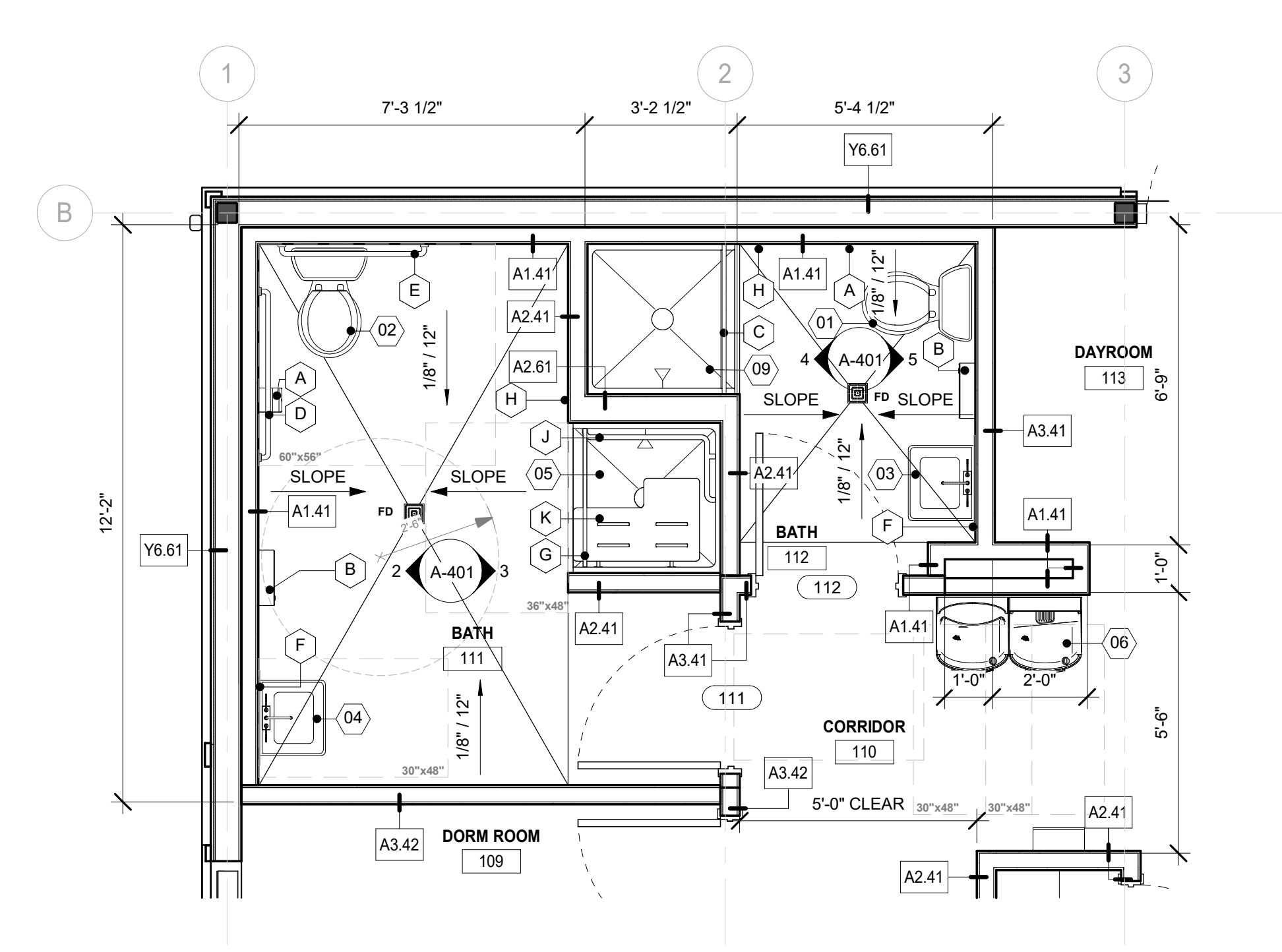
9 ENLARGED DECONTAMINATION ROOM 120
3/8" = 1'-0"



3 BATH 111 - 02
3/8" = 1'-0"



2 BATH 111 - 01
3/8" = 1'-0"



1 ENLARGED BATHROOMS 111/112
3/8" = 1'-0"

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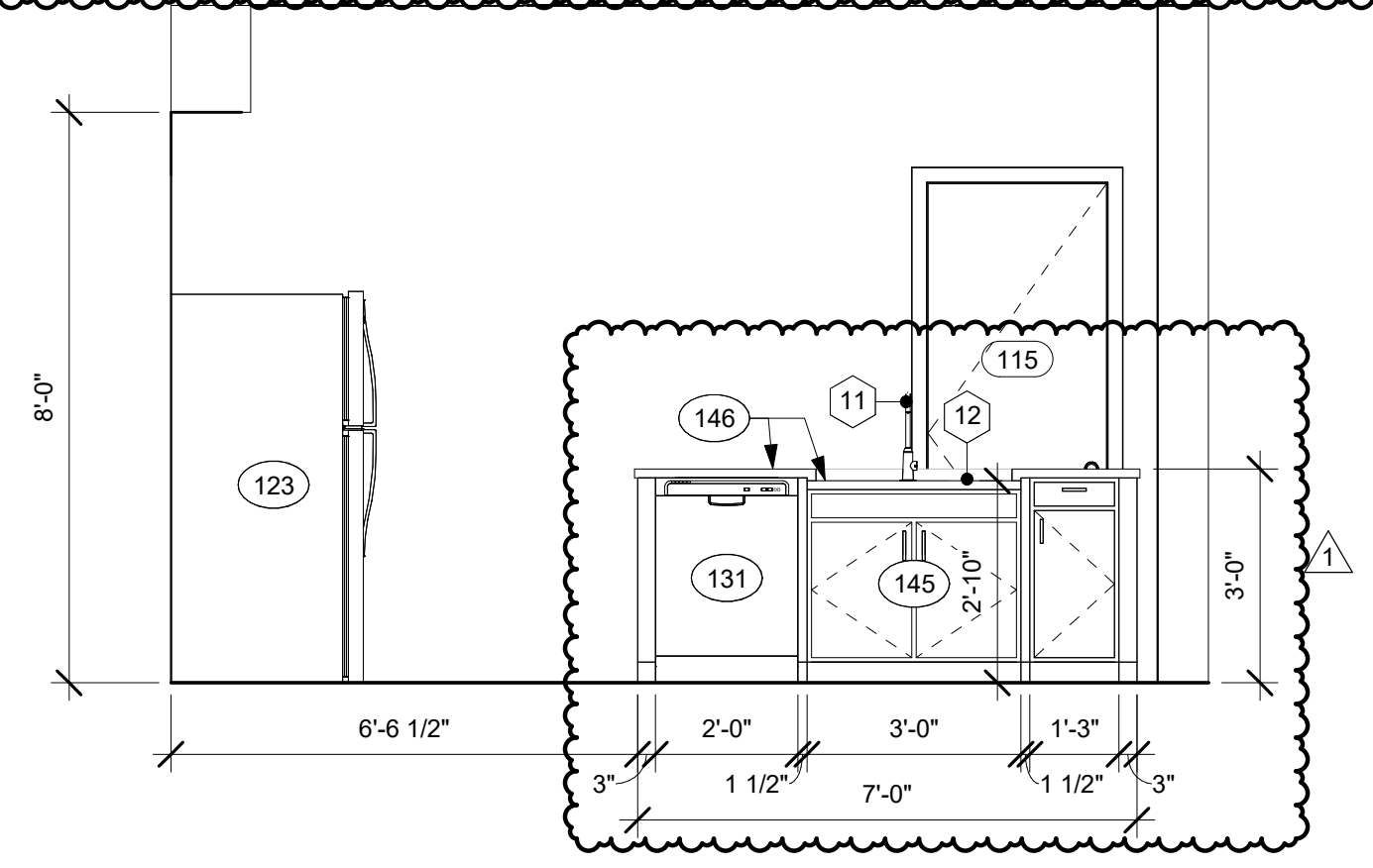
**FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION**
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:
 # Date Description
 PROJECT NO: 23.014
 ISSUE DATE: 09.18.2024
 DRAWING TITLE: ENLARGED PLANS & ELEVATIONS
 SHEET NUMBER: A-401
 EDITION:
 FOR PERMIT - BID

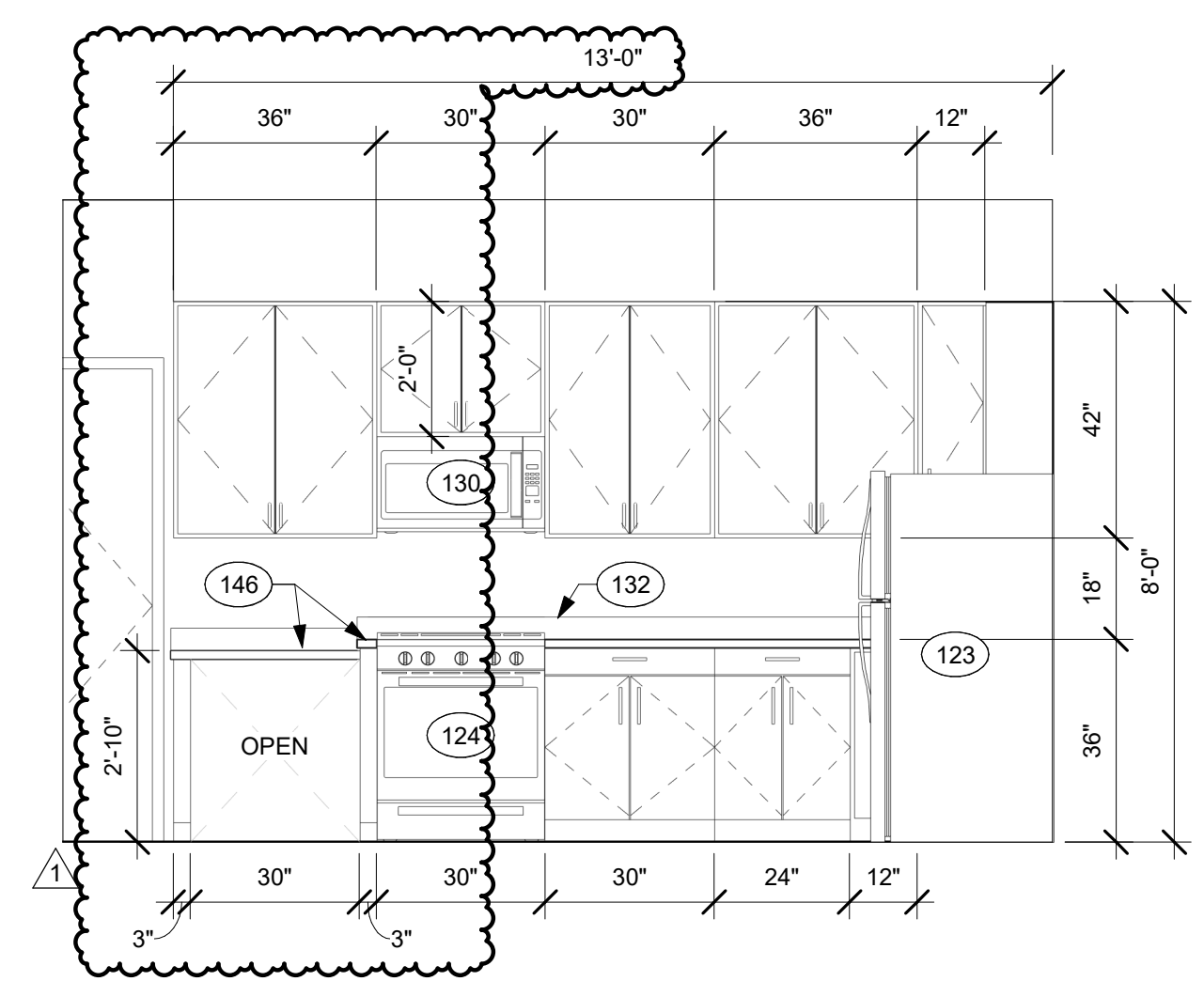
REFER TO INTERIOR DESIGN PRODUCT SPECIFICATION BOOK FOR EQUIPMENT SPECIFICATIONS

KEYNOTE LEGEND

123	REFRIGERATOR
124	ELECTRIC RANGE
130	MICROWAVE RANGE HOOD
131	DISHWASHER
132	BACKSPASH TO MATCH COUNTERTOP
133	FRONT LOAD CLOTHES WASHING MACHINE
134	FRONT LOAD CLOTHES DRYER
135	GEAR WASHER-EXTRACTOR
136	GEAR DRYING CABINET
145	REMOVABLE BASE CABINET - INSERT FLOORING TO EXTEND UNDER CABINET AND BACK WALL OF ISLAND TO BE TRIMMED/FINISHED - PER ARCHITECTURAL BARRIERS ACT ACCESSIBILITY STANDARDS (ABAAS) F606.2.3
146	SOLID SURFACE COUNTERTOP



8 KITCHEN 114 - 02
3/8" = 1'-0"



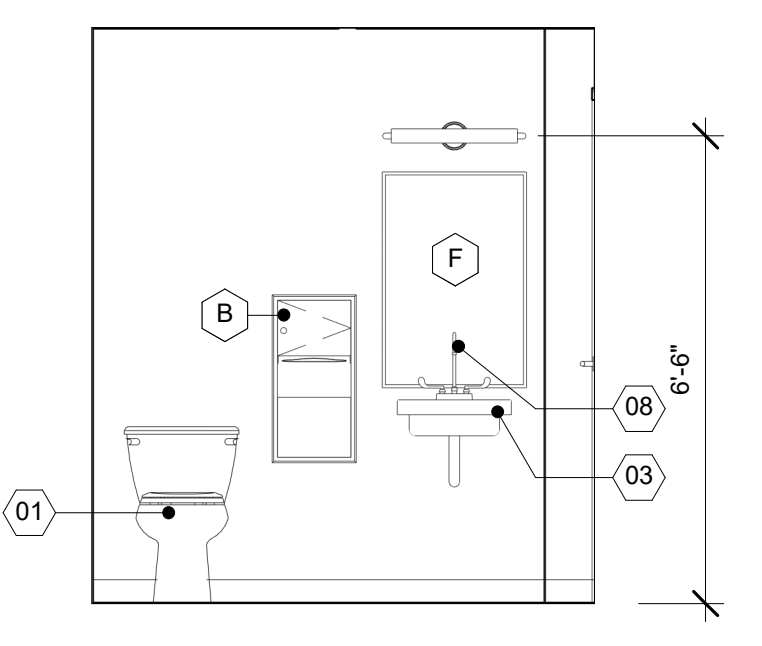
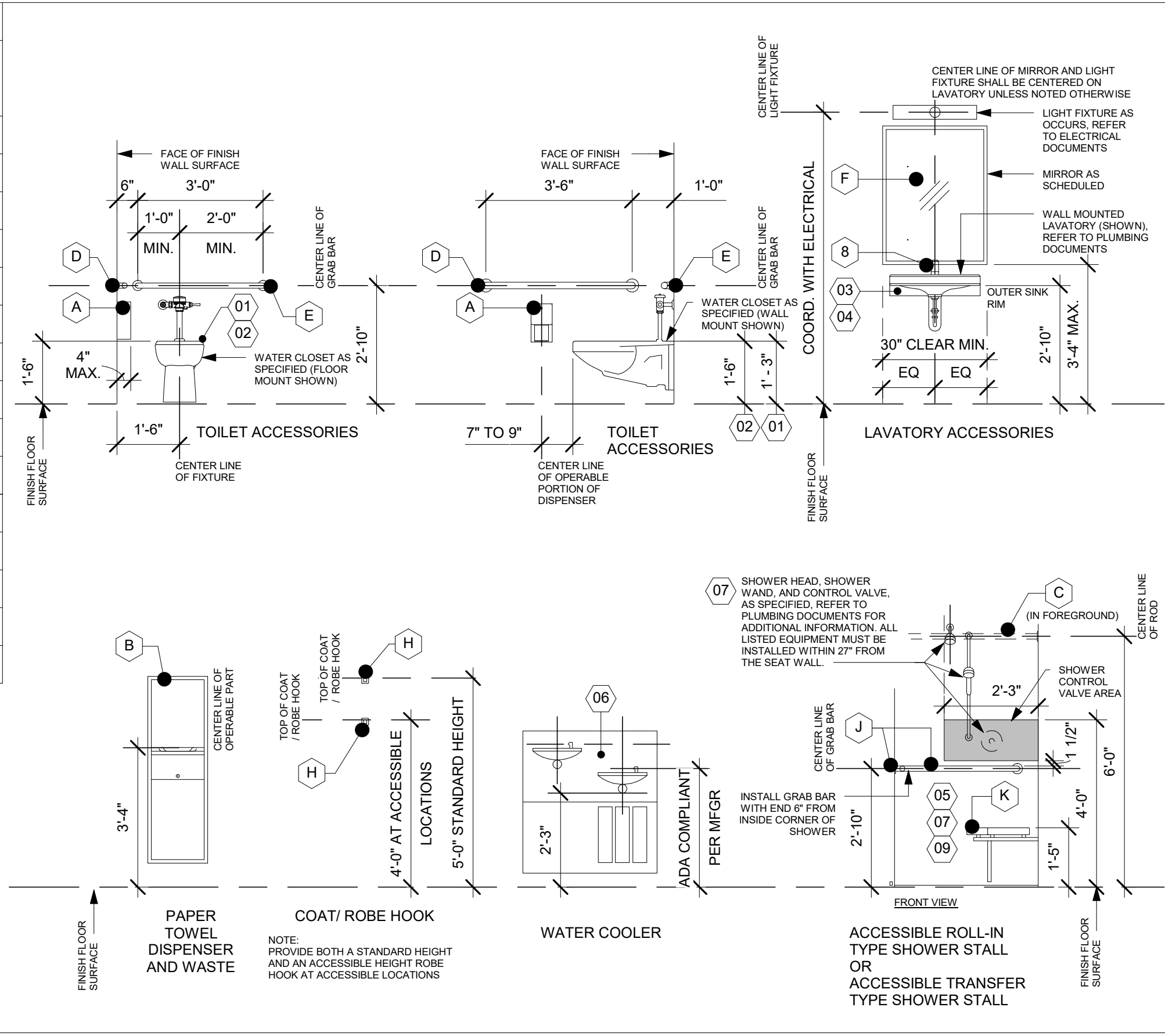
7 KITCHEN 114 - 01
3/8" = 1'-0"

KEY SCHEDULES

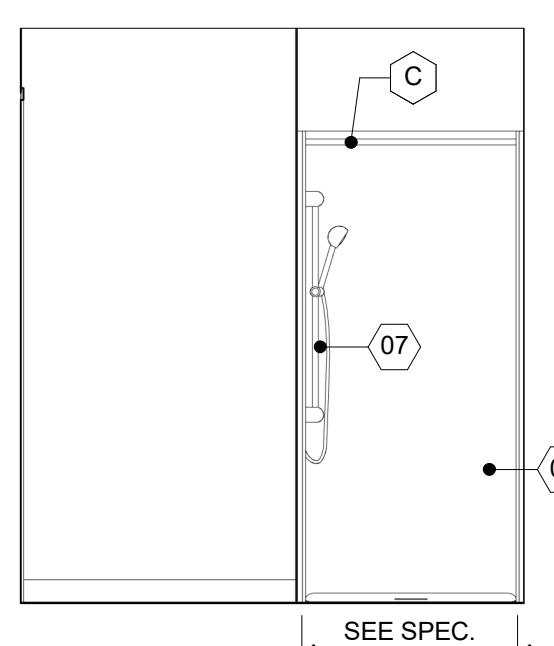
ACCESSORY SCHEDULE			PLUMBING FIXTURE SCHEDULE (ARCH.)		
MARK	TAG	ITEM/DESCRIPTION	MARK	TAG	ITEM/DESCRIPTION
A	ACC-2	TOILET TISSUE DISPENSER	01	WC-1	STANDARD WATER CLOSET
B	ACC-12	PAPER TOWEL DISPENSER AND WASTE	02	WC-2	ACCESSIBLE WATER CLOSET
C	ACC-6	CURTAIN ROD	03	L-1	STANDARD WALL MOUNTED OR IN-COUNTER SINK OR LAV.
D	ACC-10	42" LONG GRAB BAR	04	L-1	ACCESSIBLE WALL MOUNTED OR IN-COUNTER SINK OR LAV.
E	ACC-11	36" GRAB BAR	05	SH-1	ADA SHOWER KIT-38"
F	ACC-7	WALL MIRROR	06	EWC-1	WATER COOLER
G	-	CURTAIN ROD - ORDER WITH SHOWER KIT	07	SH	SHOWER FAUCET
H	ACC-5	ROBE HOOK	08	FAC-2	VANITY FAUCET
J	-	GRAB BAR - INCLUDED IN ADA SHOWER KIT	09	SH-2	SHOWER KIT
K	-	SHOWER SEAT - INCLUDED IN ADA SHOWER KIT	10	SH-3	SHOWER KIT - 48"
			11	FAC-1	KITCHEN FAUCET
			12	SINK-1	KITCHEN SINK
			13	ACC-1	EYEWASH STATION - G.C. TO PROVIDE AS ALTERNATE
			14	SNK-2	LAUNDRY SINK

NOTES:
 1. PROVIDE SOLID WOOD FIRE RETARDANT WOOD BLOCKING FOR MOUNTING/INSTALLING ALL ACCESSORIES.
 2. GC SHALL COORDINATE WITH ARCHITECT FOR FINAL SELECTIONS OF FINISHES AND ACCESSORIES.
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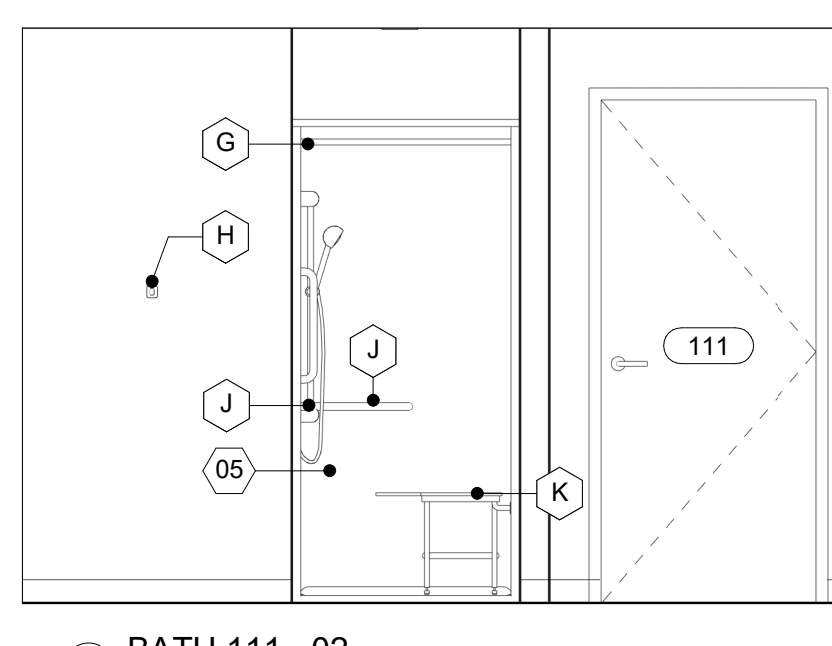
TYPICAL MOUNTING REQUIREMENTS



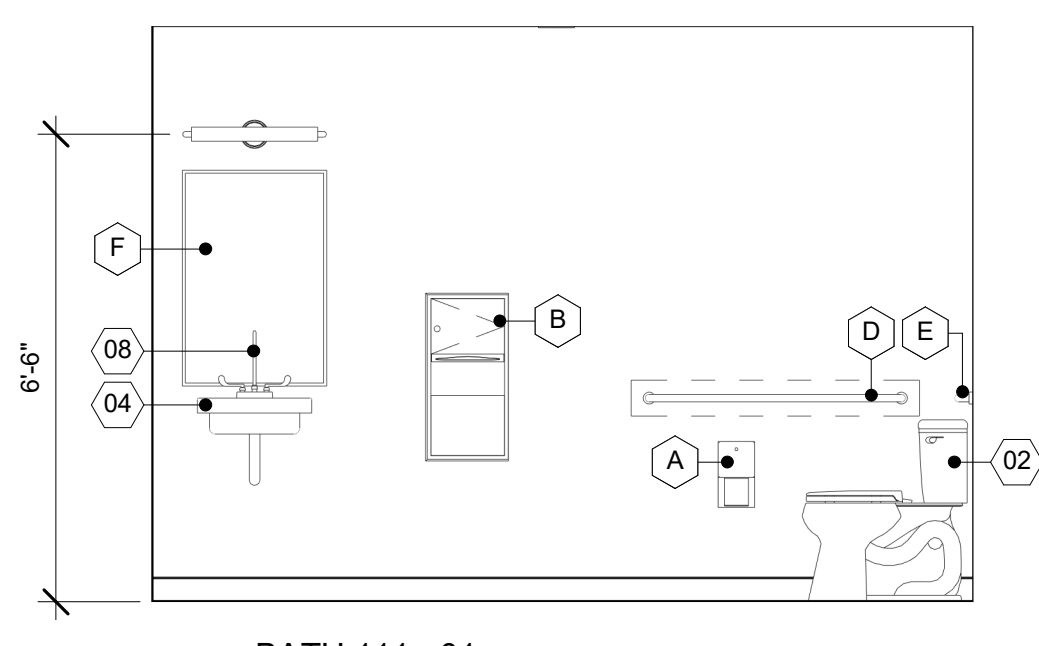
5 BATH 112 - 02
3/8" = 1'-0"



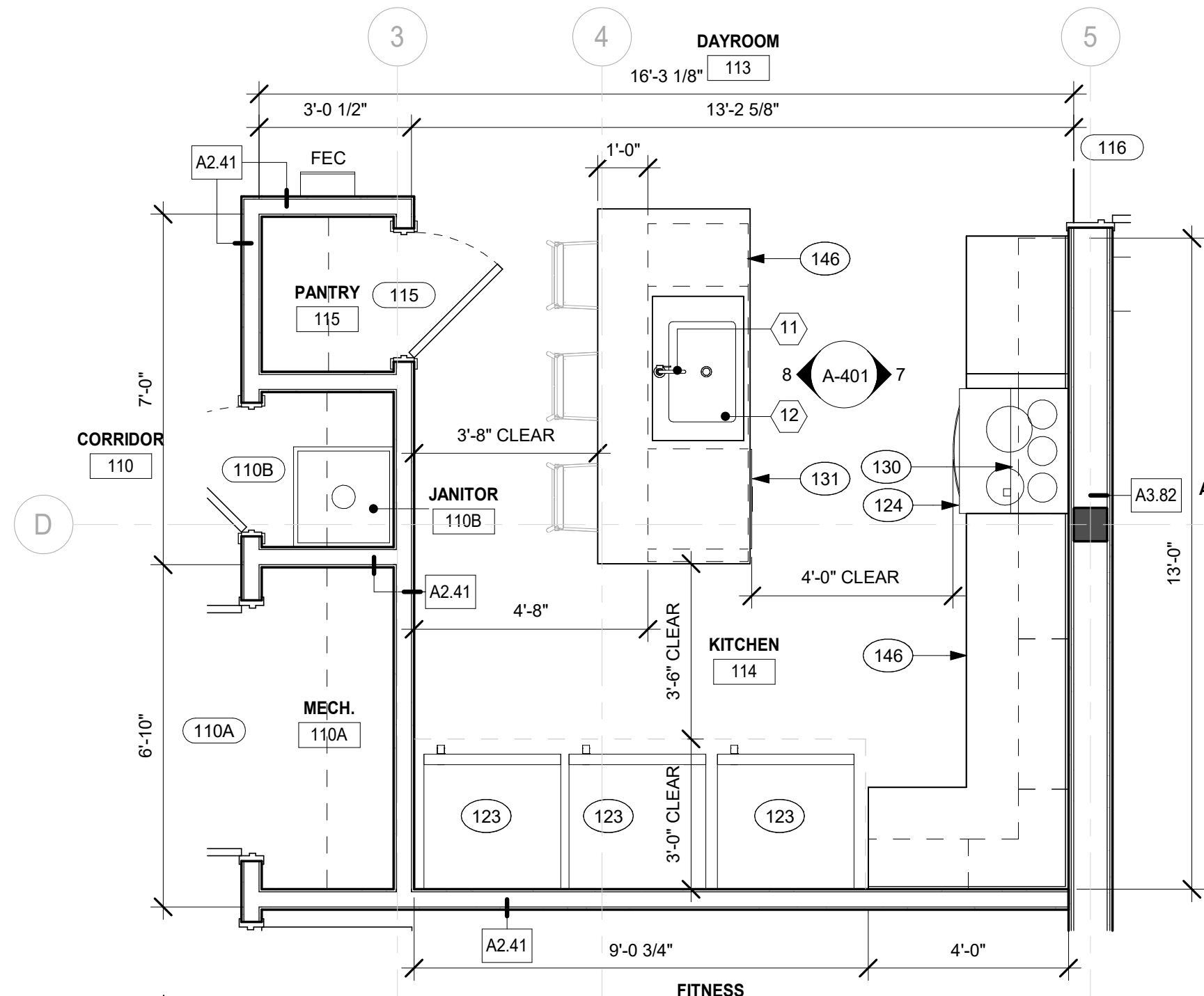
4 BATH 112 - 01
3/8" = 1'-0"



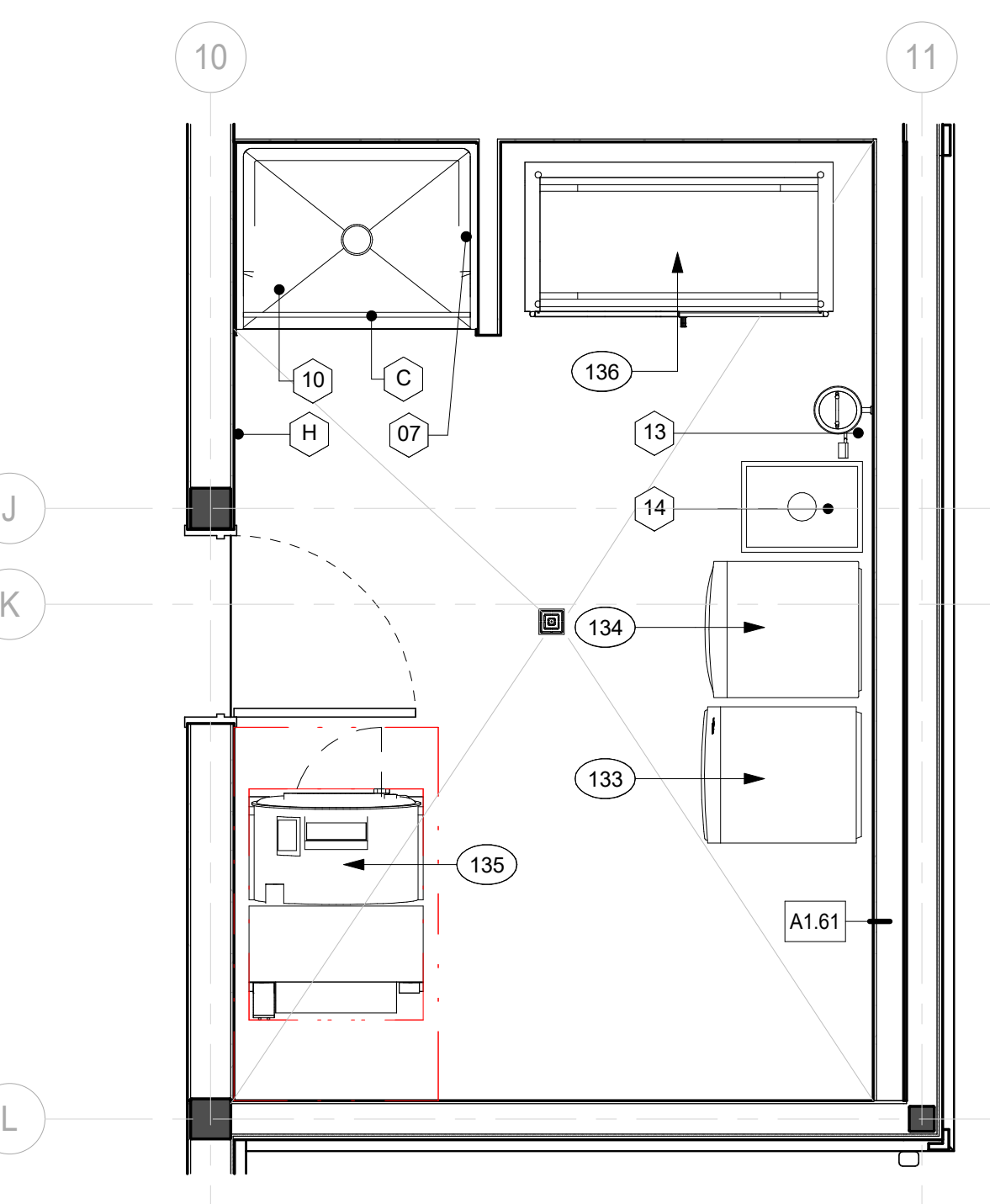
3 BATH 111 - 02
3/8" = 1'-0"



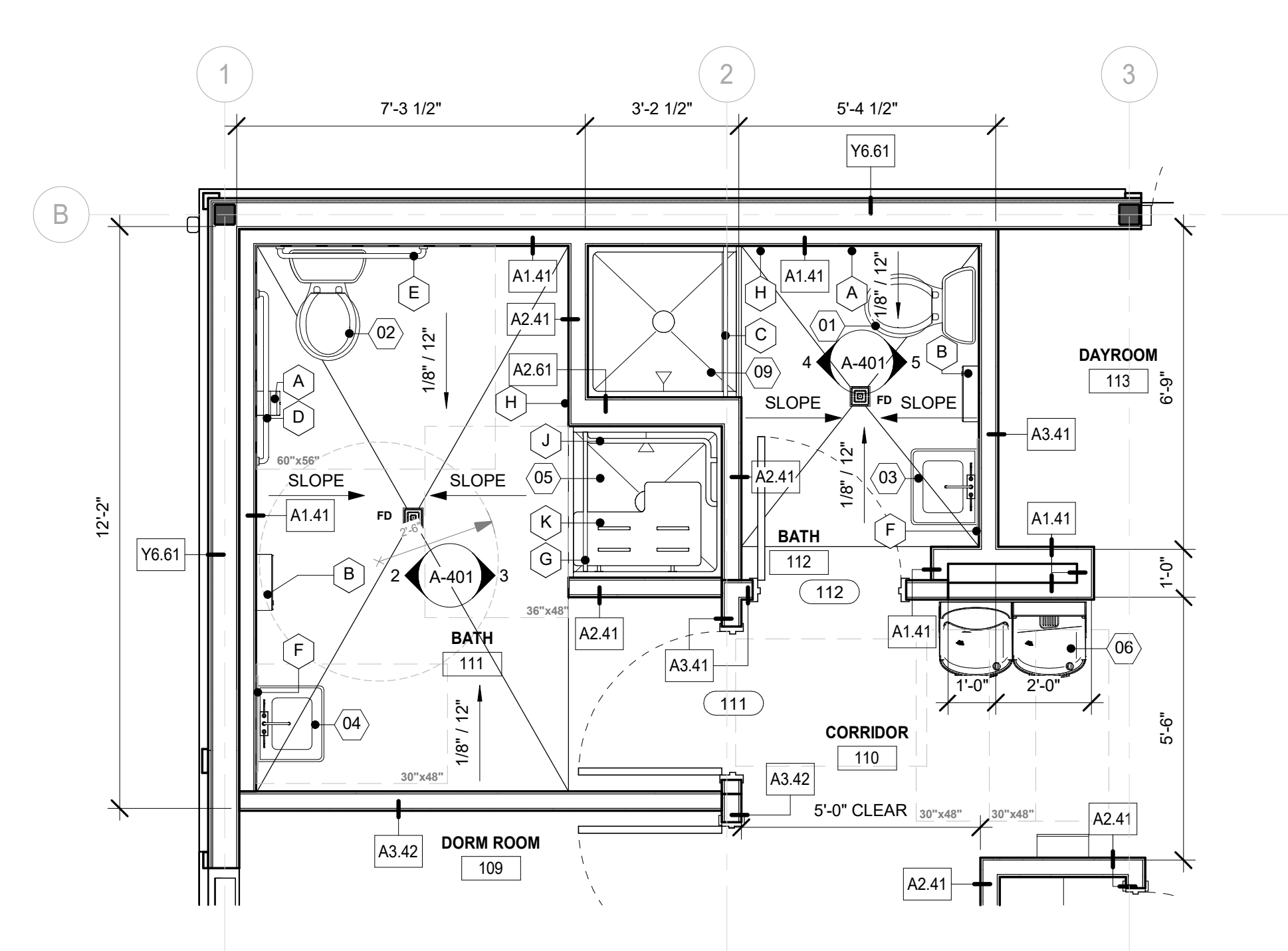
2 BATH 111 - 01
3/8" = 1'-0"



6 ENLARGED KITCHEN PLAN
3/8" = 1'-0"



9 ENLARGED DECONTAMINATION ROOM 120
3/8" = 1'-0"



1 ENLARGED BATHROOMS 111/112
3/8" = 1'-0"

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 COMPLEX FIRE STATION
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 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:
 # Date Description
 11.08.2024 USDA REVIEW COMMENTS

PROJECT NO: 23.014

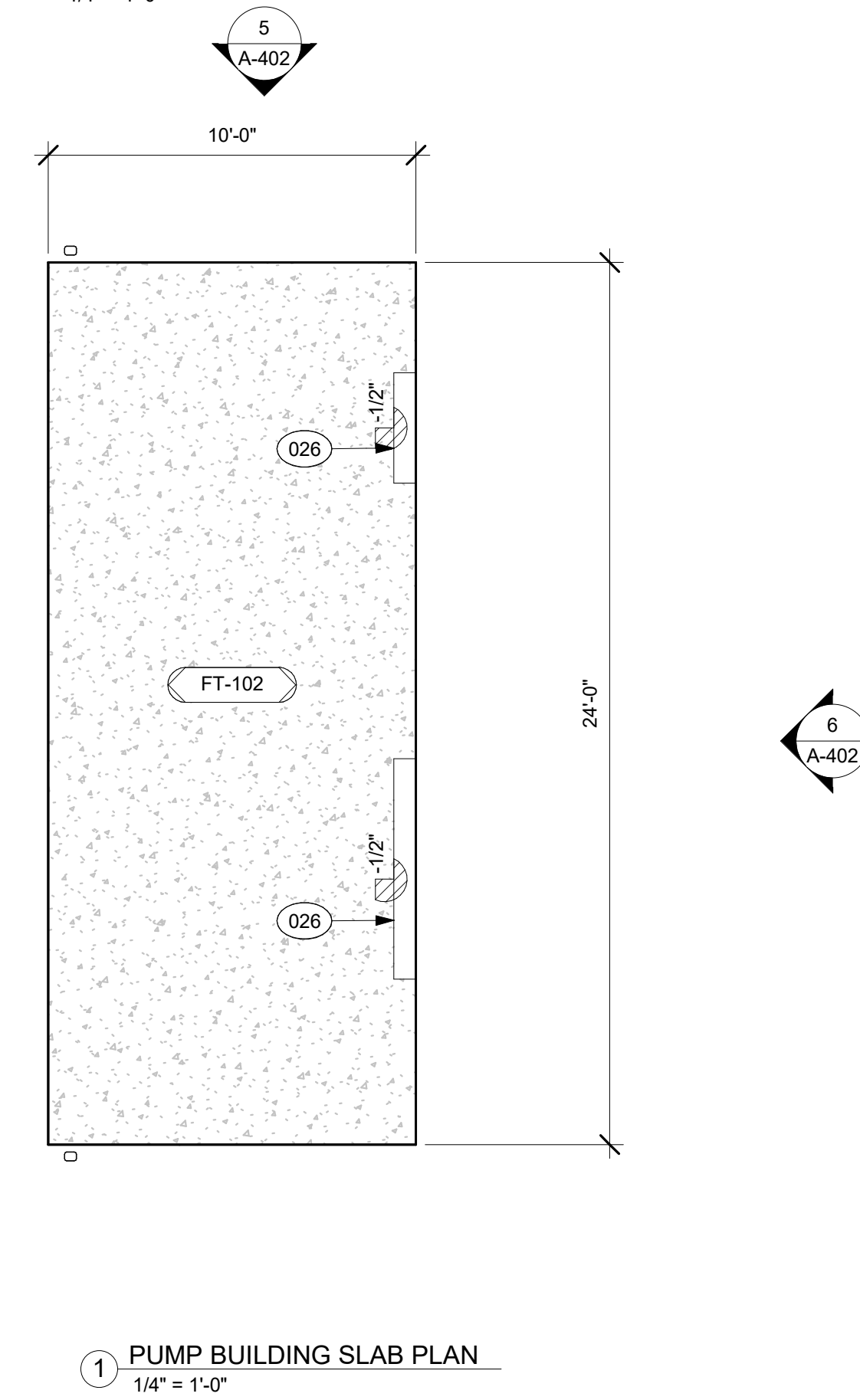
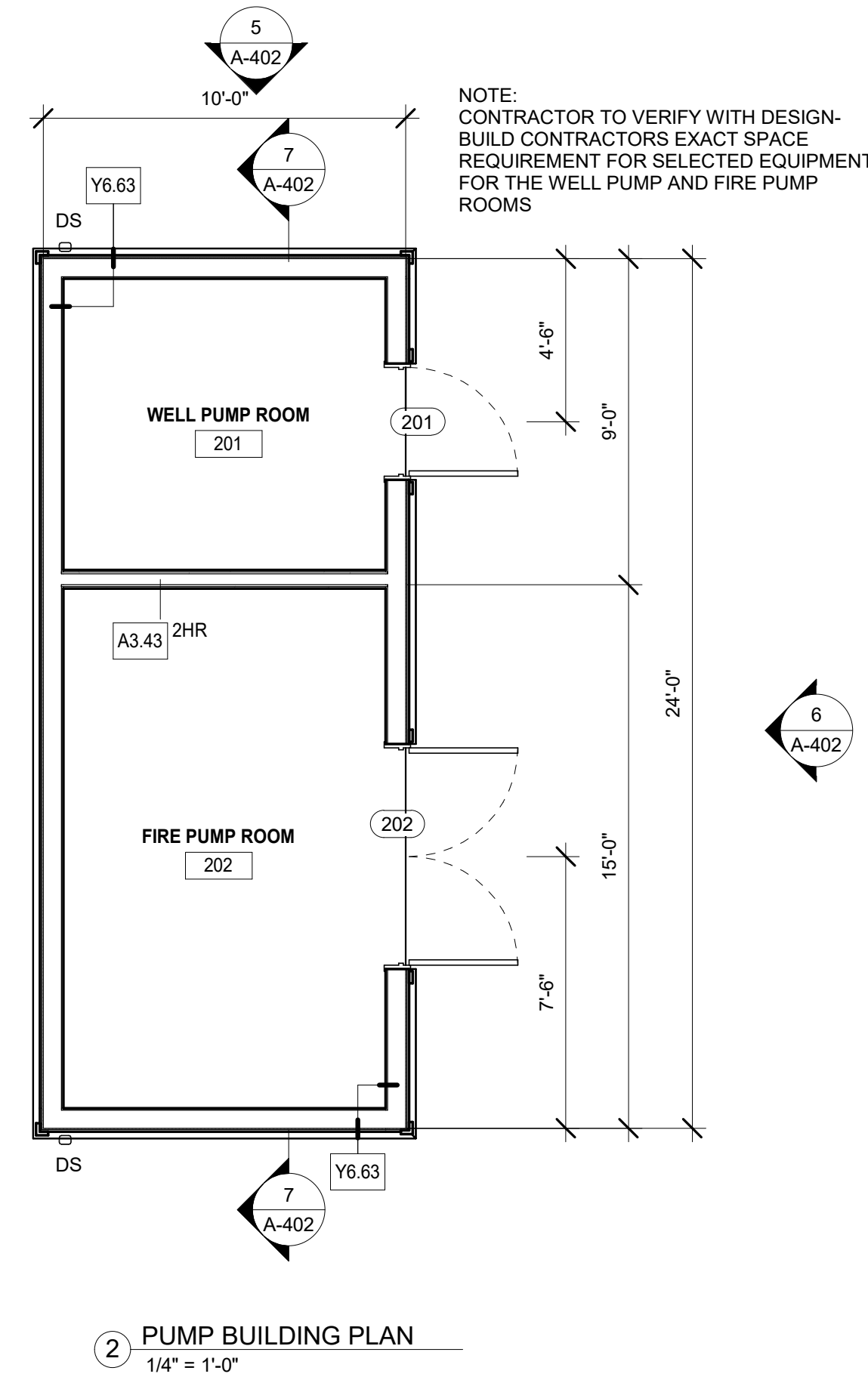
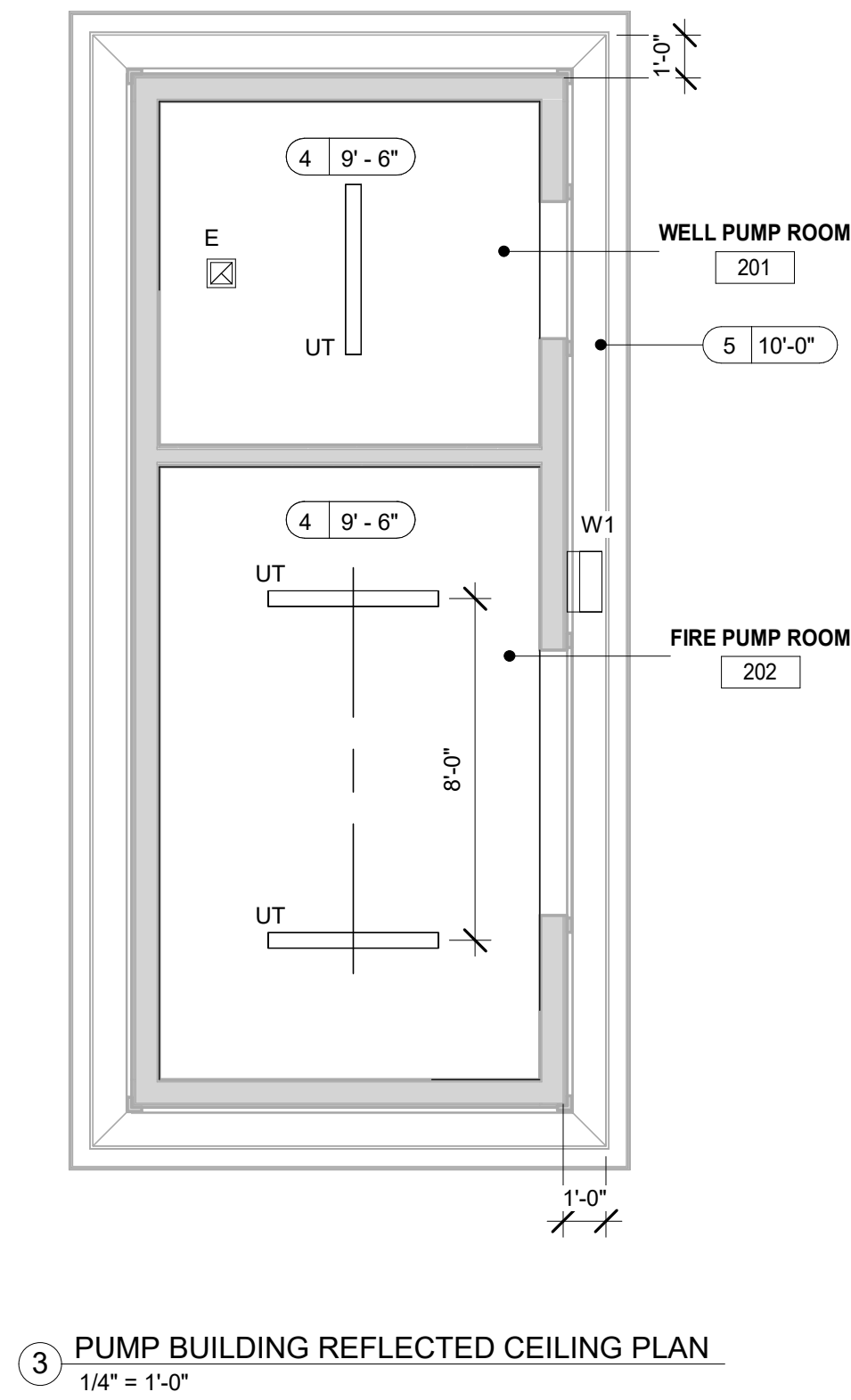
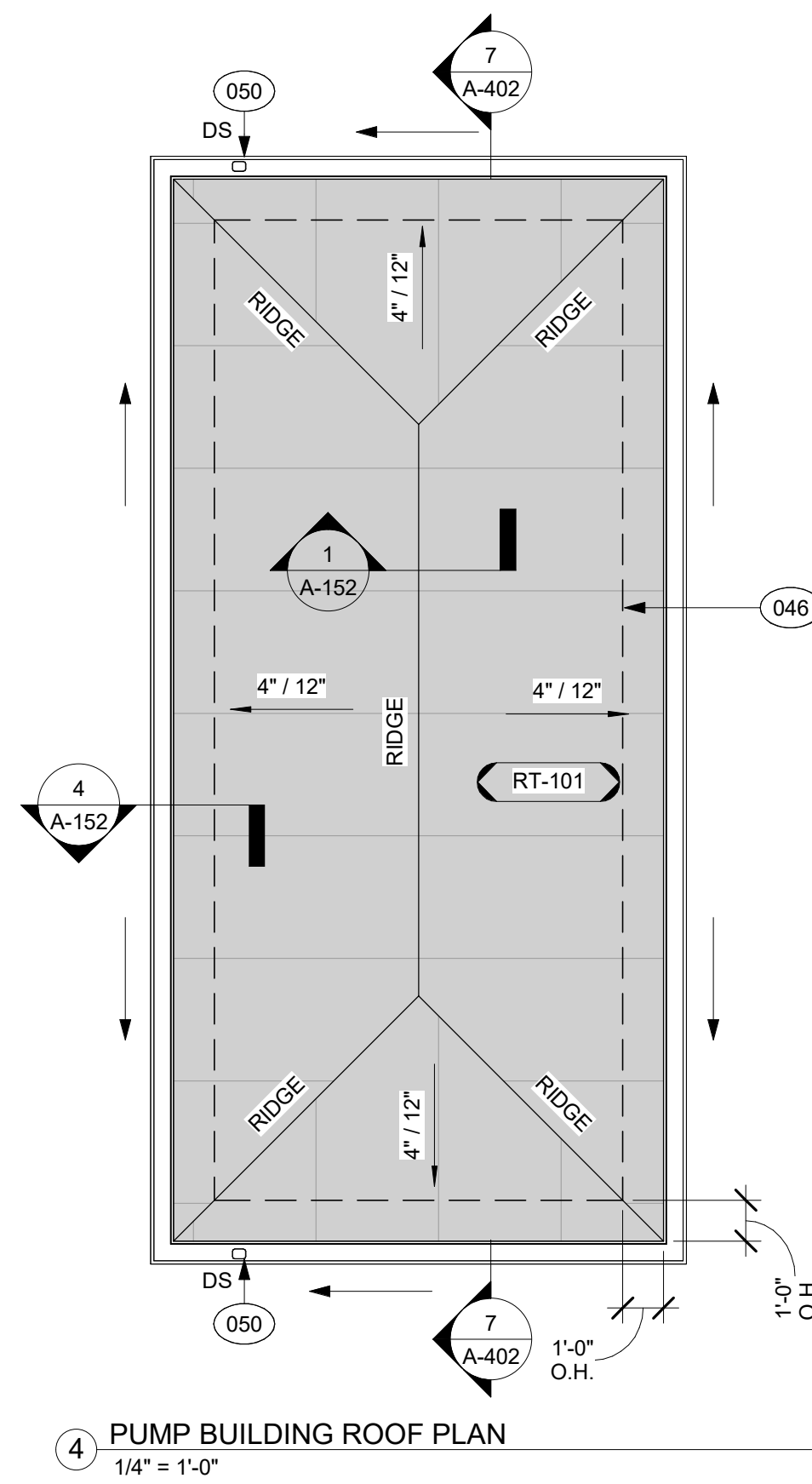
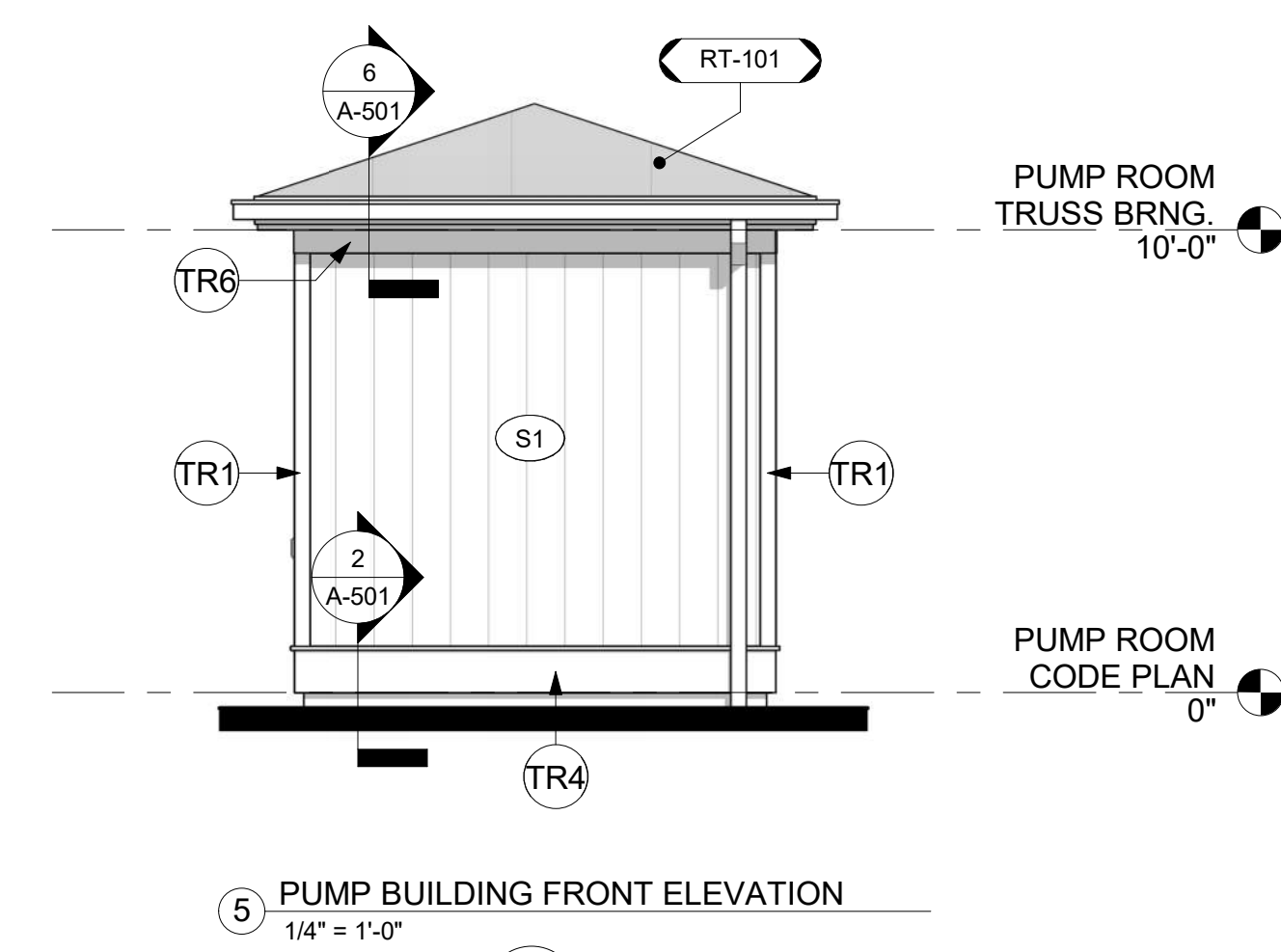
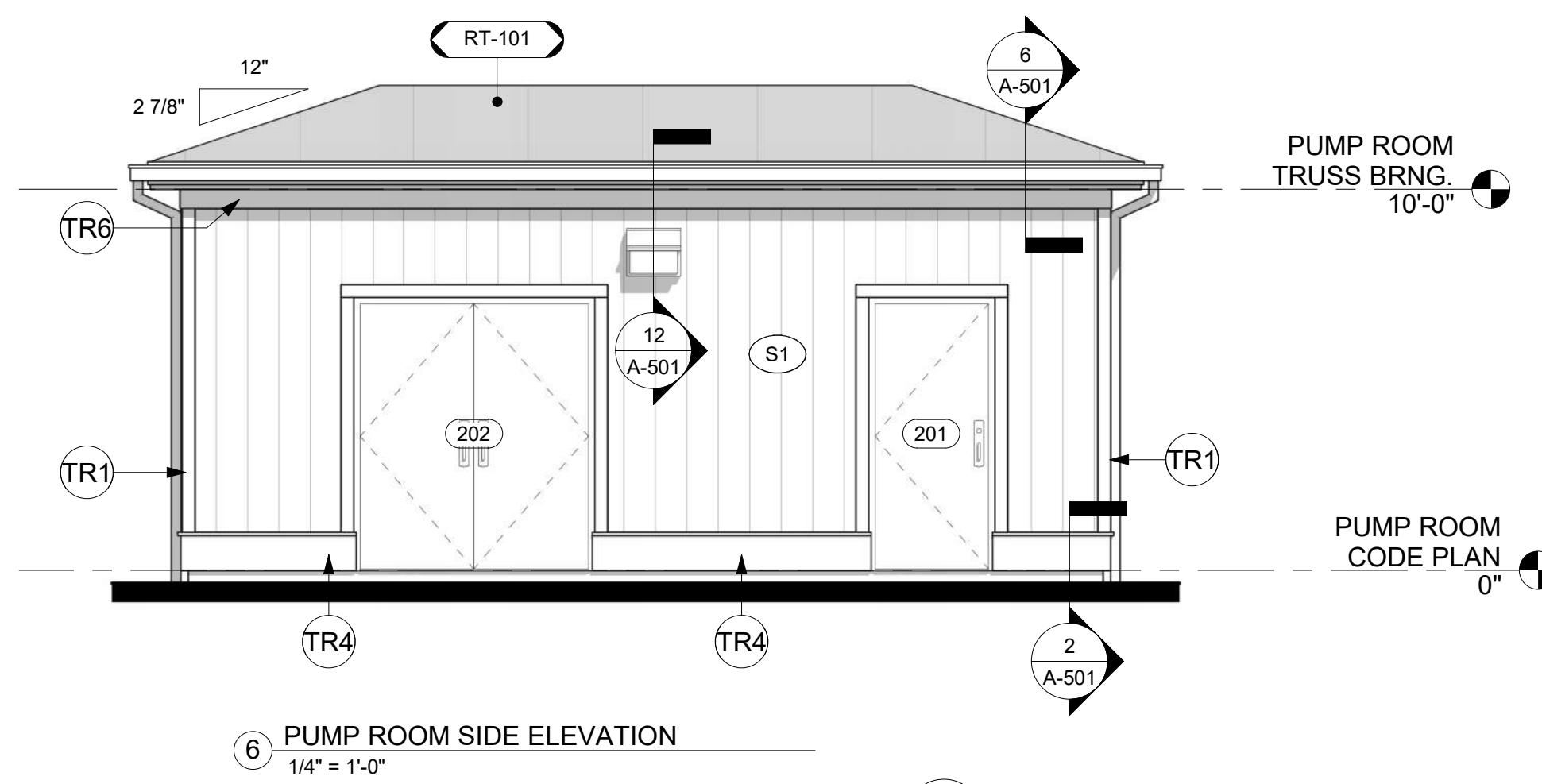
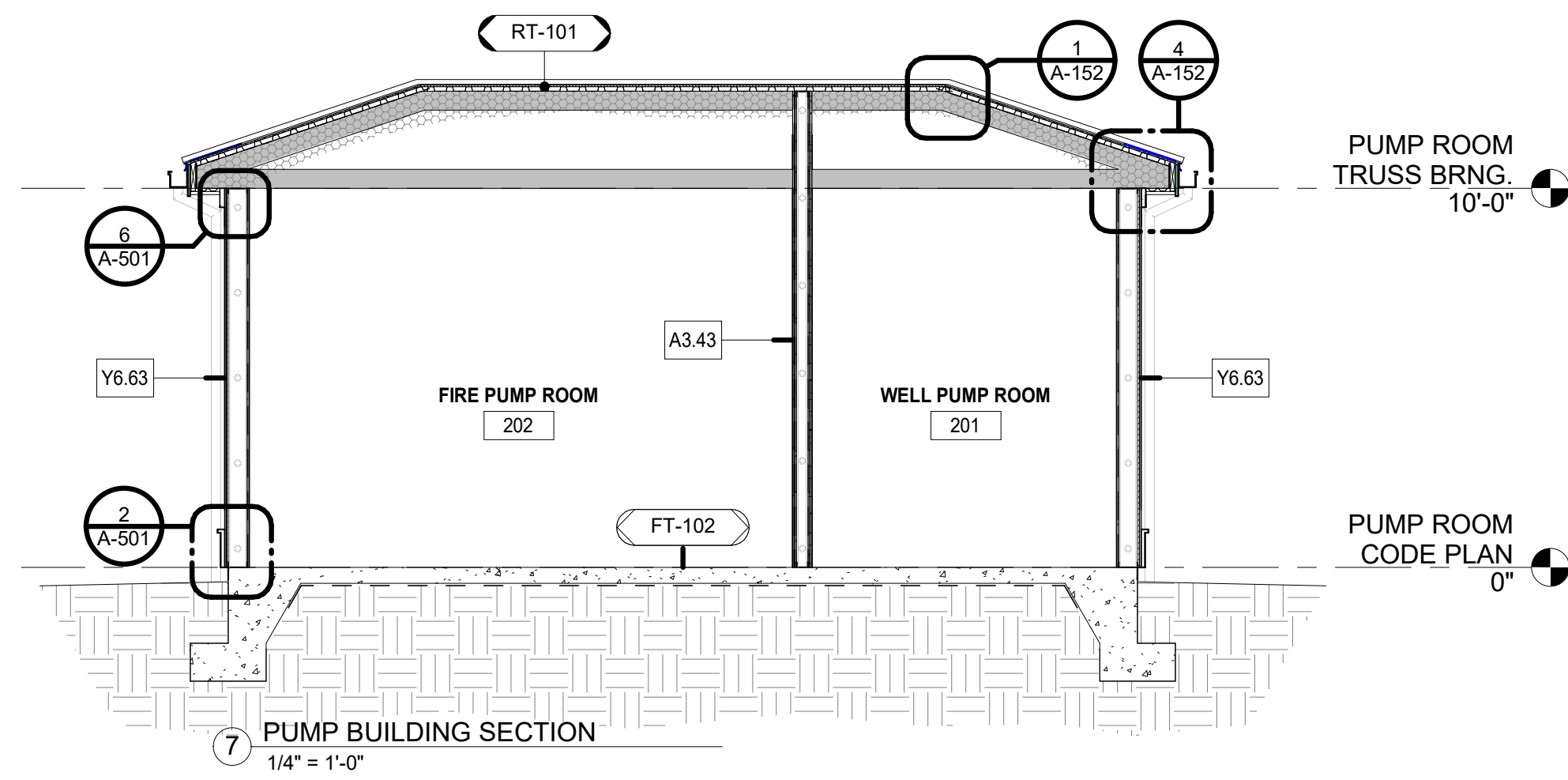
ISSUE DATE: 09.18.2024

DRAWING TITLE: ENLARGED PLANS & ELEVATIONS

SHEET NUMBER:

A-401

EDITION: FOR PERMIT - BID



MATERIAL / COLOR LEGEND

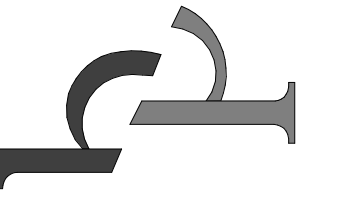
(S1)	HARDIE PLANK 10" REVEAL LAP SIDING - TAN
(S2)	HARDIE PANEL SMOOTH BOARD AND BATTEN SIDING WITH SMOOTH BATTEN BOARDS - WHITE
(B1)	12" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
(B2)	10" HIGH DECORATIVE BRACKET WITH INTERNAL SUPPORT AS REQUIRED - PAINTED TO MATCH TRIM
(1)	30x48 EXHAUST VENT
(2)	9" BOLLARD
(TR1)	4" HARDIE CORNER TRIM BOARD - WHITE
(TR2)	8" HARDIE CORNER TRIM BOARD - WHITE
(TR3)	16" HARDIE TRIM BOARD - WHITE
(TR4)	12" HARDIE TRIM BOARD - WHITE
(TR5)	8" HARDIE TRIM BOARD - WHITE
(TR6)	6" HARDIE TRIM BOARD - WHITE
(TR7)	4" HARDIE TRIM BOARD - WHITE

NOTES: ALL TRIM SHALL BE PROVIDED IN SMOOTH FINISH

REFLECTED CEILING PLAN MATERIAL KEY

1	MOISTURE RESISTANT GYPSUM CEILING W/ SOUND BATT INSULATION ON 7/8" GALVANIZED METAL FURRING STRIPS	4	EXPOSED TO STRUCTURE - PAINTED
2	2 X 2 SUSPENDED ACOUSTIC TEGULAR GRID SYSTEM ON 9/16" GRID (095000)	5	NON-VENTED CEMENTITIOUS SOFFIT PANEL - PAINTED WHITE
3	GYPSUM CEILING ON GALVANIZED METAL FRAMING		

* SEE PLAN FOR CEILING HEIGHT DESIGNATIONS - HEIGHTS ARE FROM TOP OF SLAB



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COMPLEX FIRE STATION**
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FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

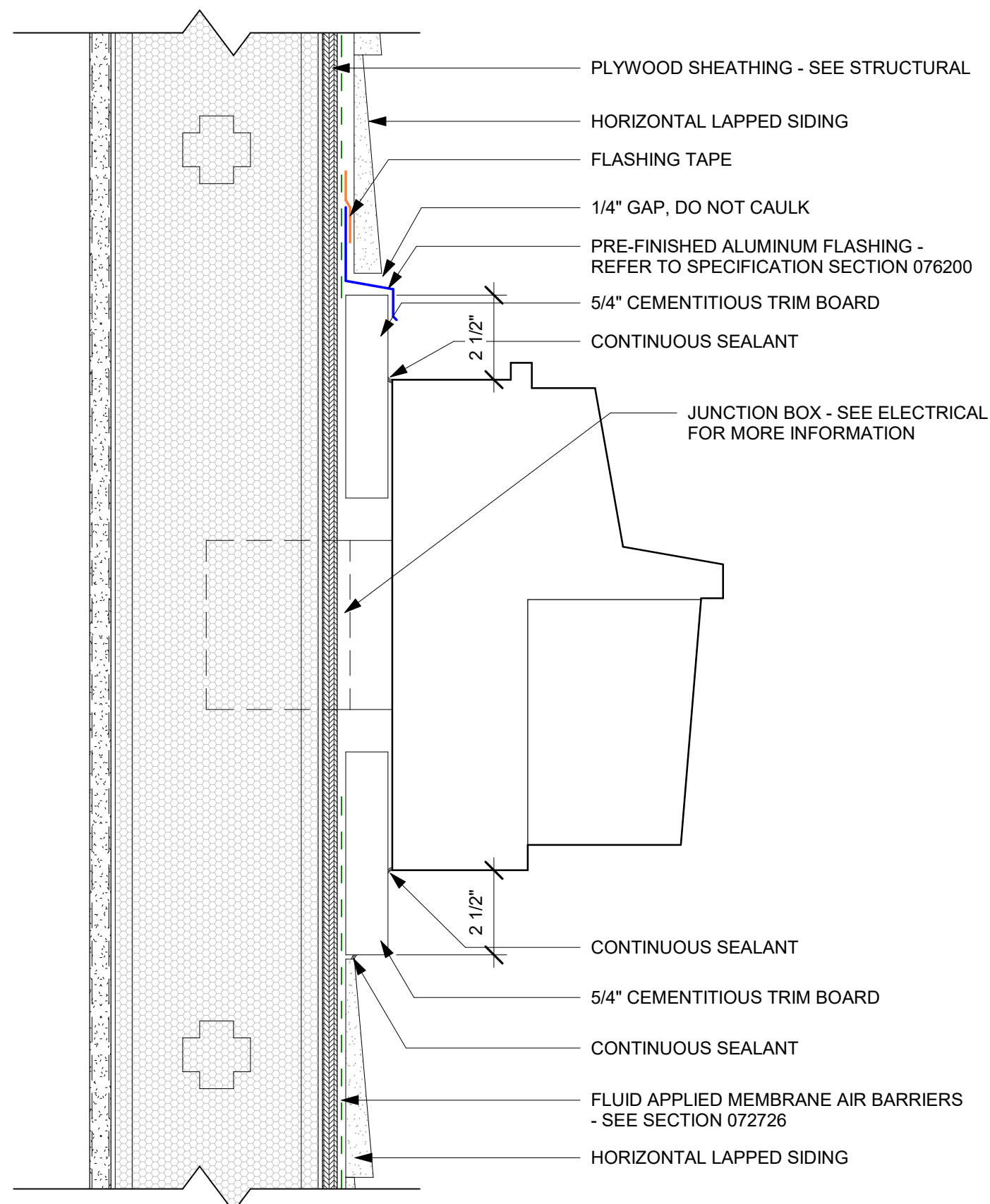
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PUMP BUILDING
PLANS &
ELEVATIONS

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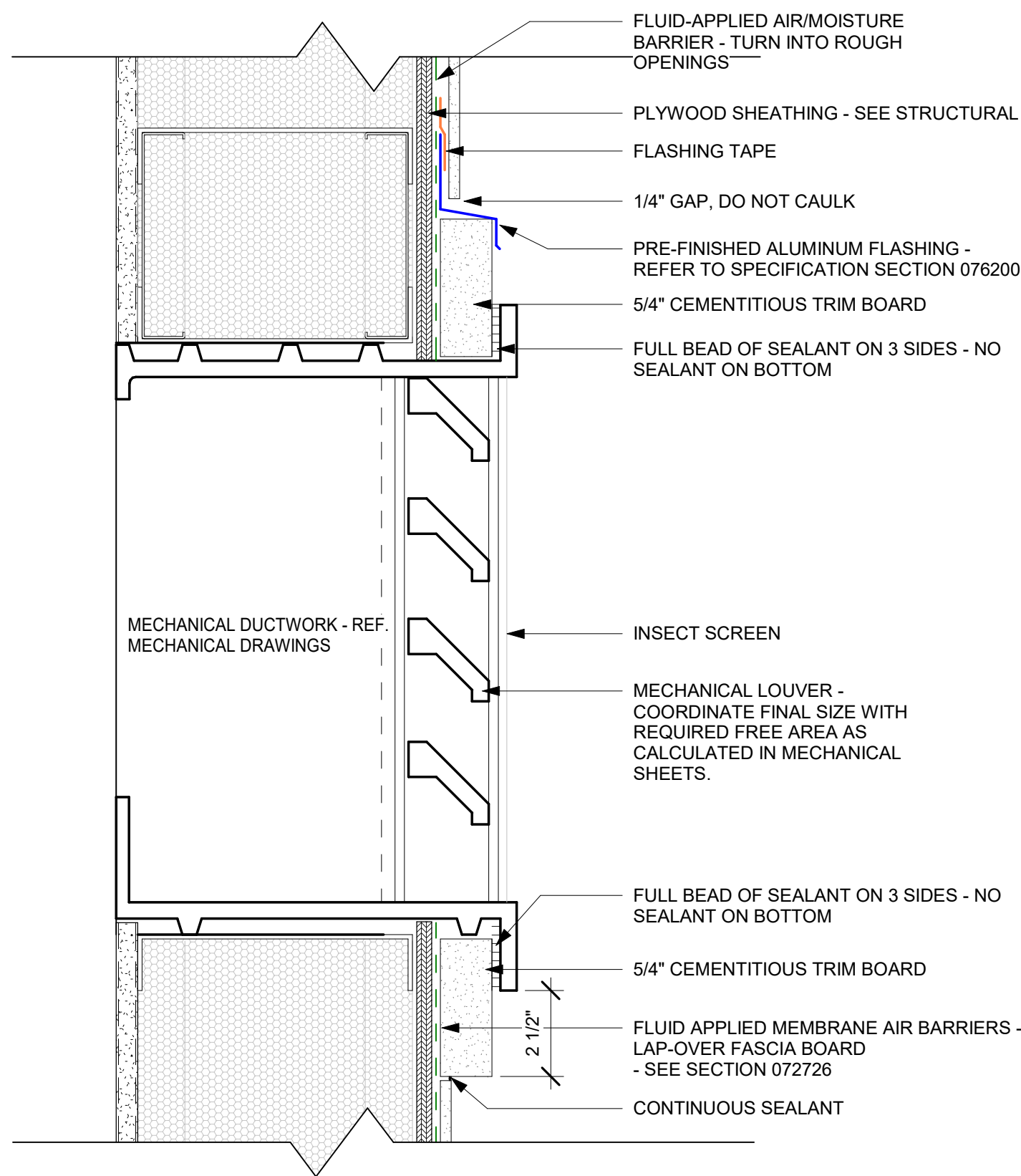
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EDITION:

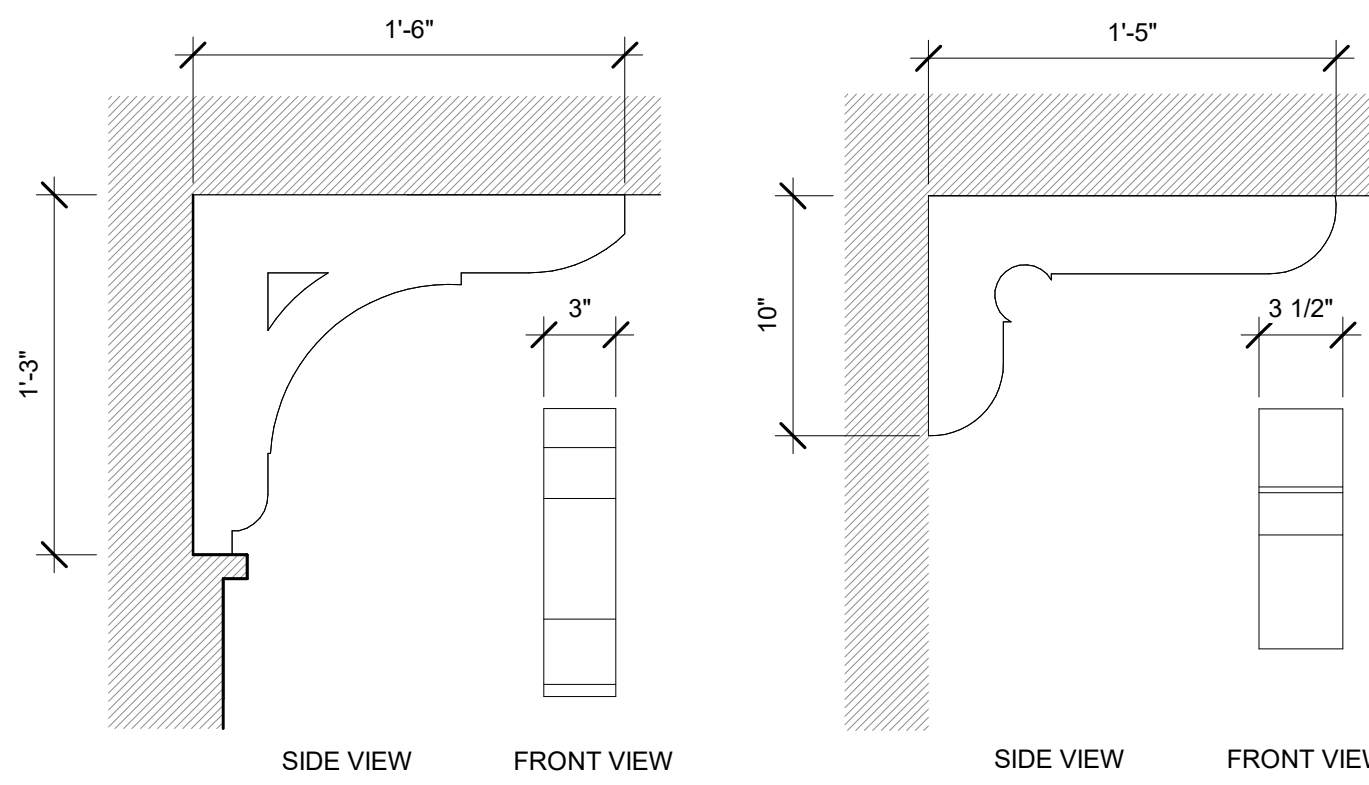
FOR PERMIT - BID



12 TRIM @ EXTERIOR LIGHT FIXTURE
3\"/>

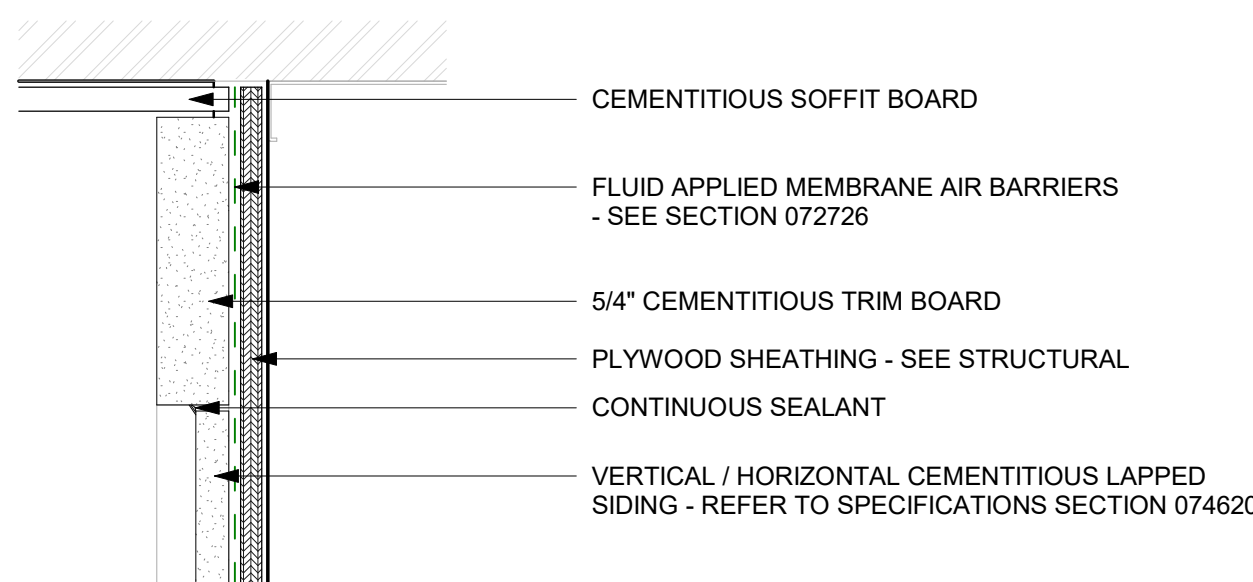


10 LOUVER HEAD & SILL DETAIL
3\"/>

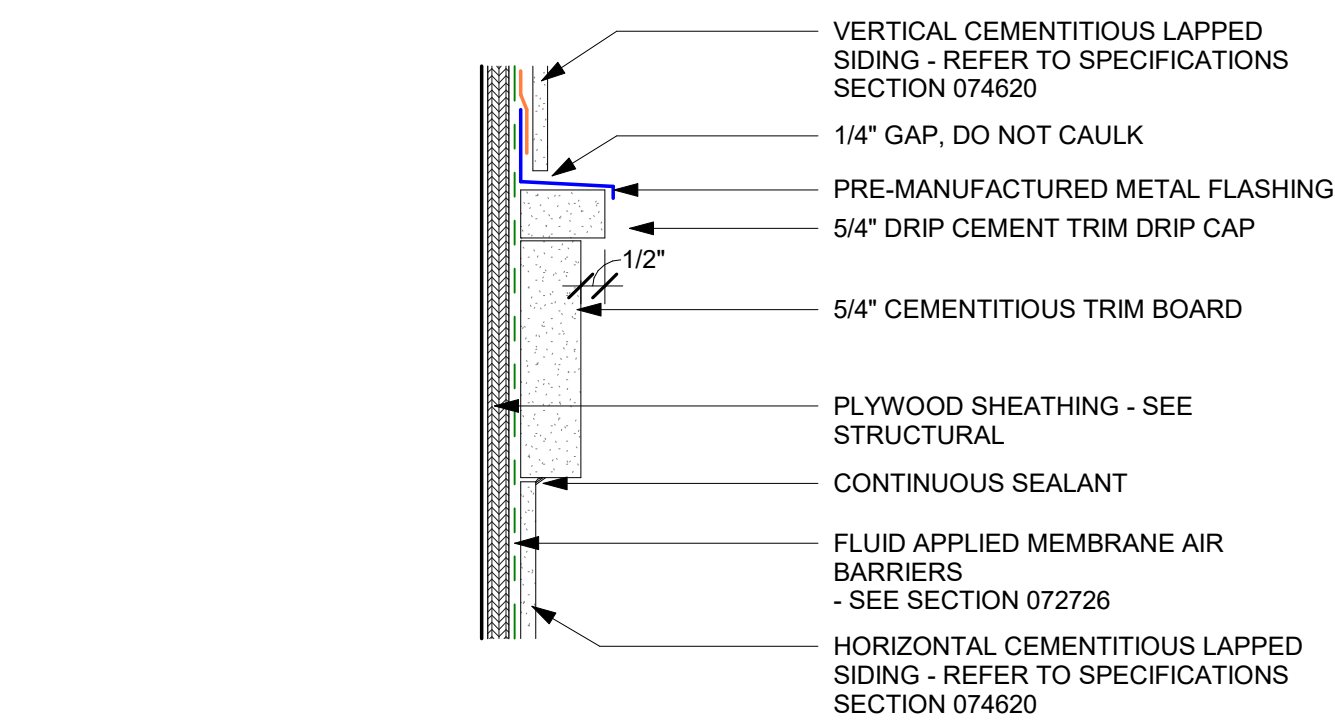


8 DECORATIVE BRACKET B1 DETAIL
1 1/2\"/>

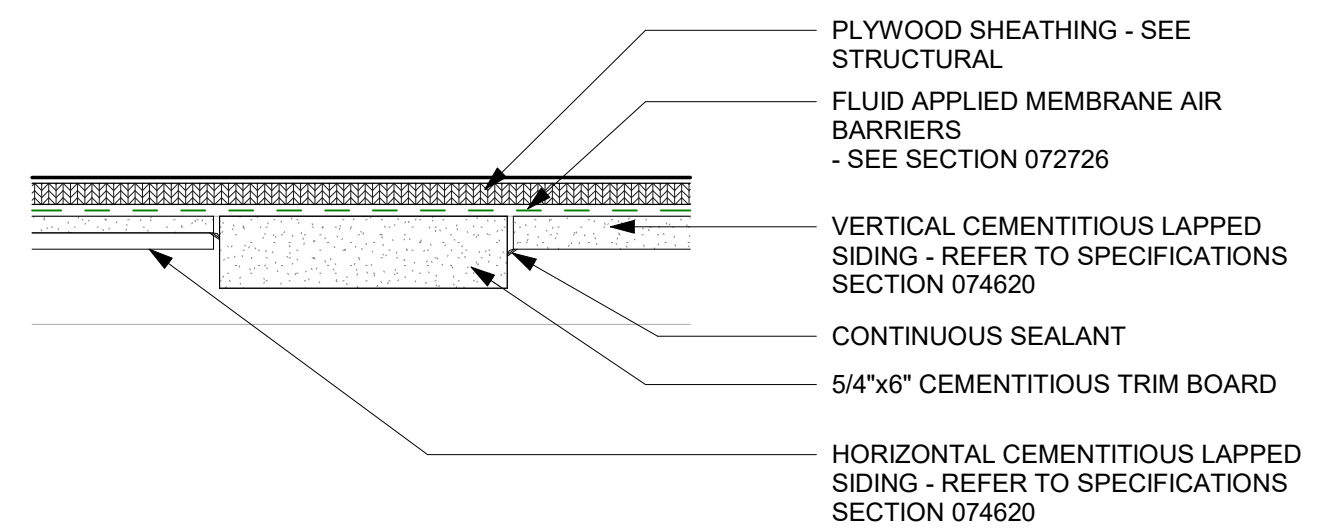
7 DECORATIVE BRACKET B2 DETAIL
1 1/2\"/>



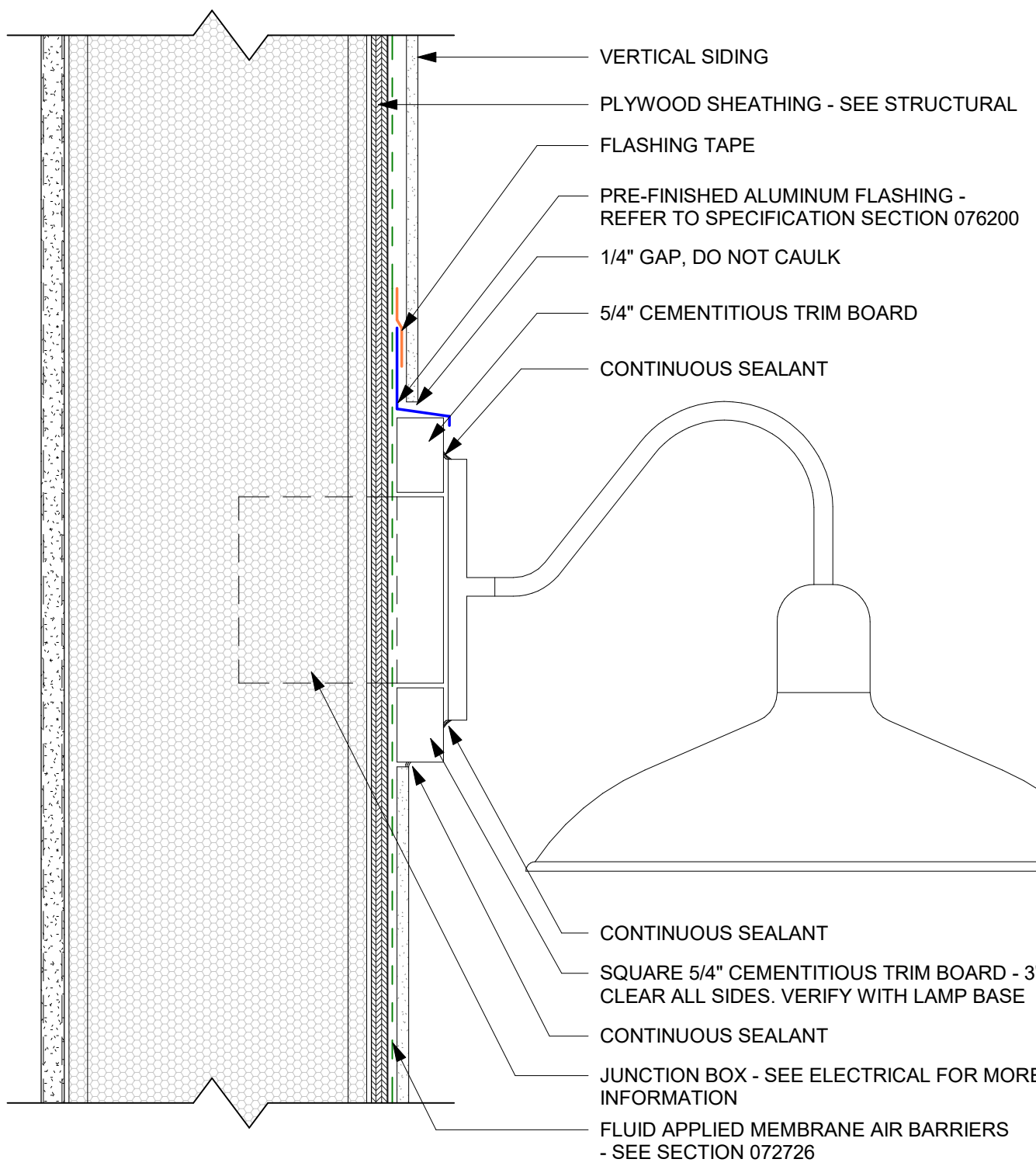
6 SOFFIT TO CEMENT BOARD
3\"/>



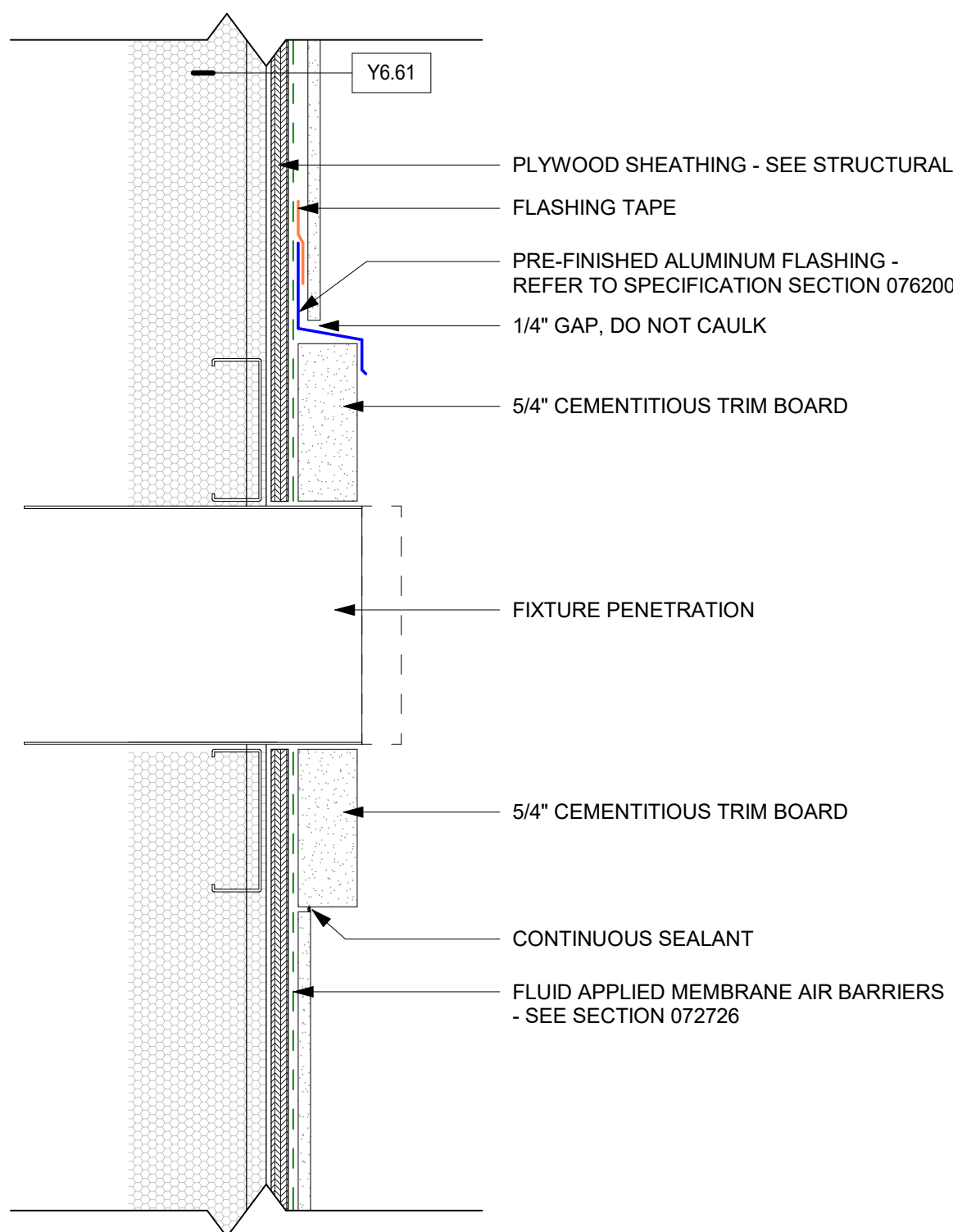
4 VERTICAL TO SMOOTH BOARD
3\"/>



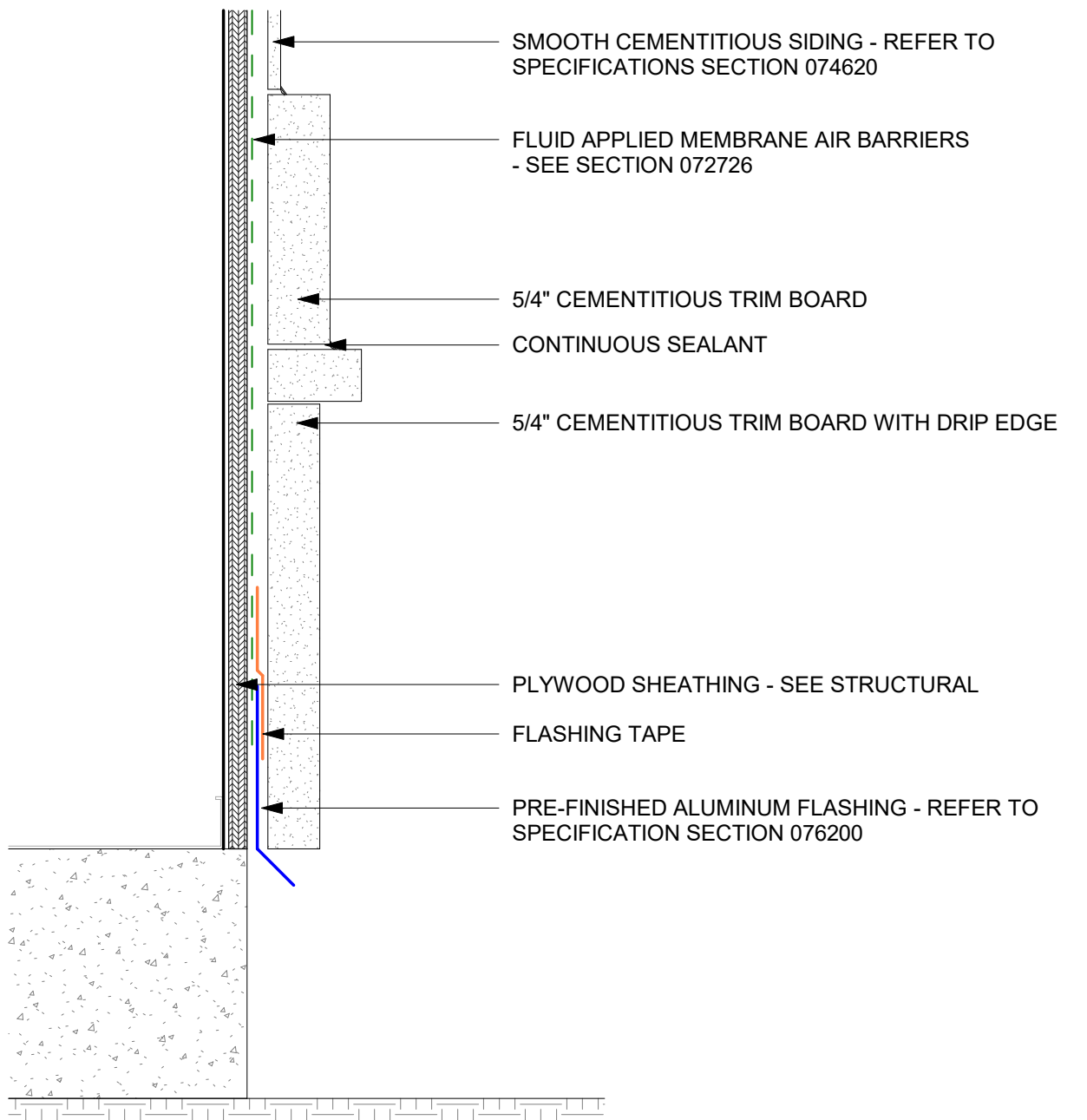
3 VERTICAL TO HORIZONTAL SIDING
3\"/>



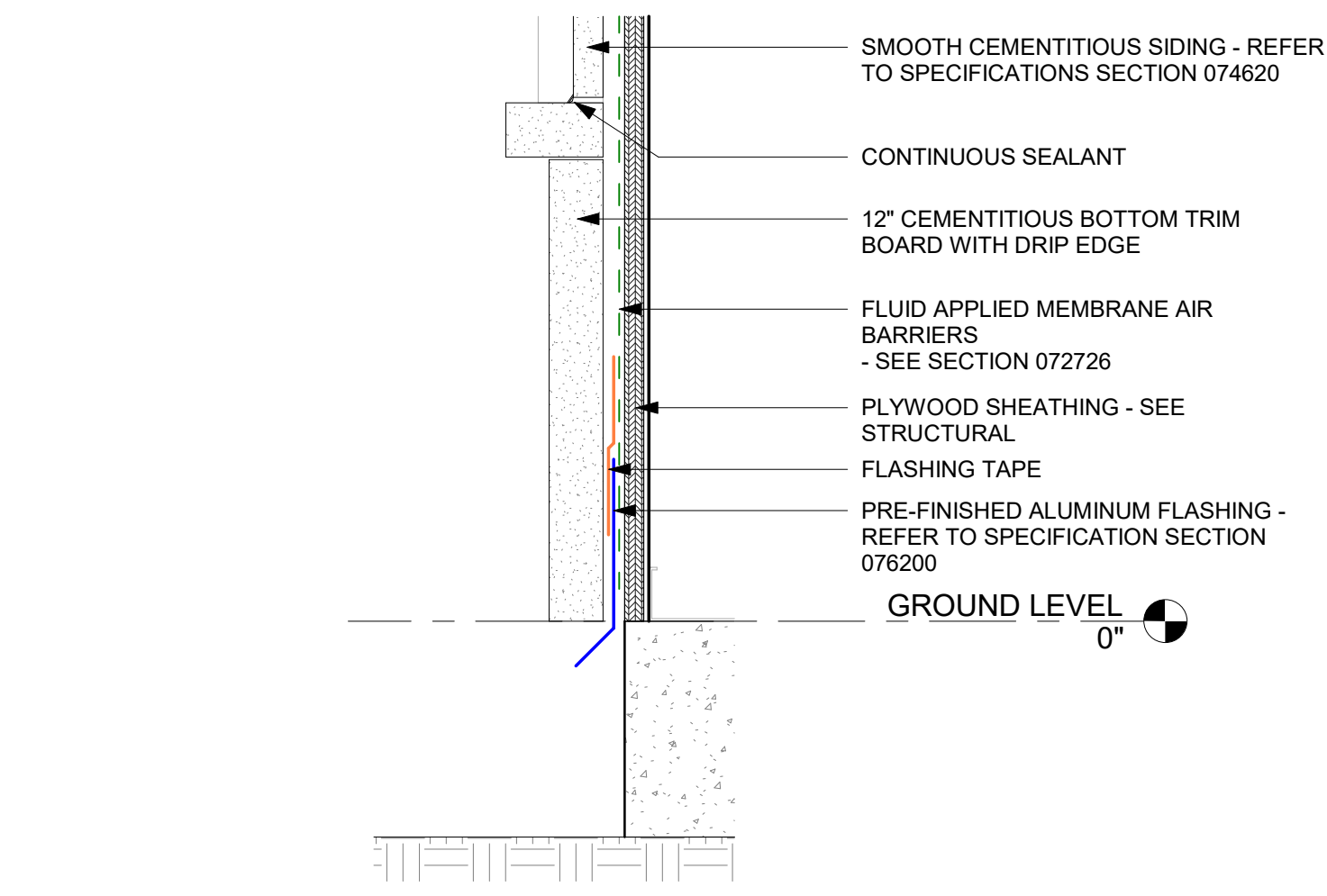
11 TRIM @ EXTERIOR GOOSE NECK LIGHT
3\"/>



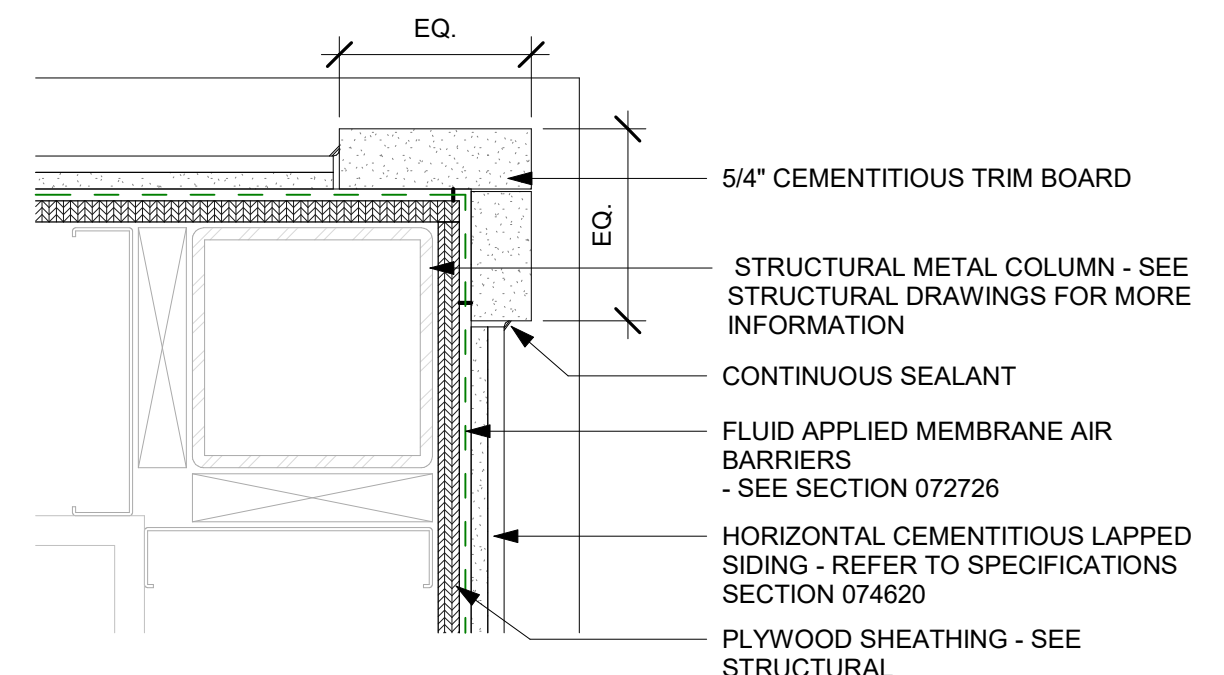
9 FIXTURE PENETRATION TRIM
3\"/>



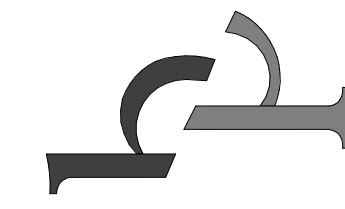
5 APPARATUS BAYS BOTTOM TRIM
3\"/>



2 BOTTOM WALL TERMINATION TRIM
3\"/>

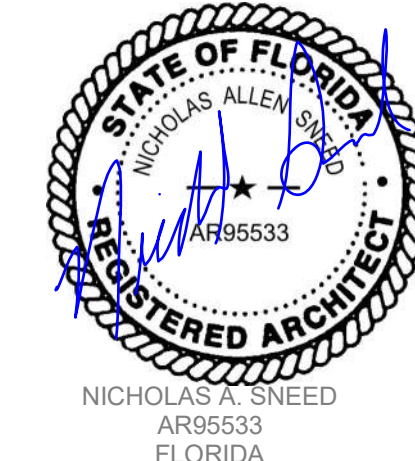


1 CORNER TRIM @ LAPPED SIDING
3\"/>



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ISSUED DRAWING LOG:

#	Date	Description

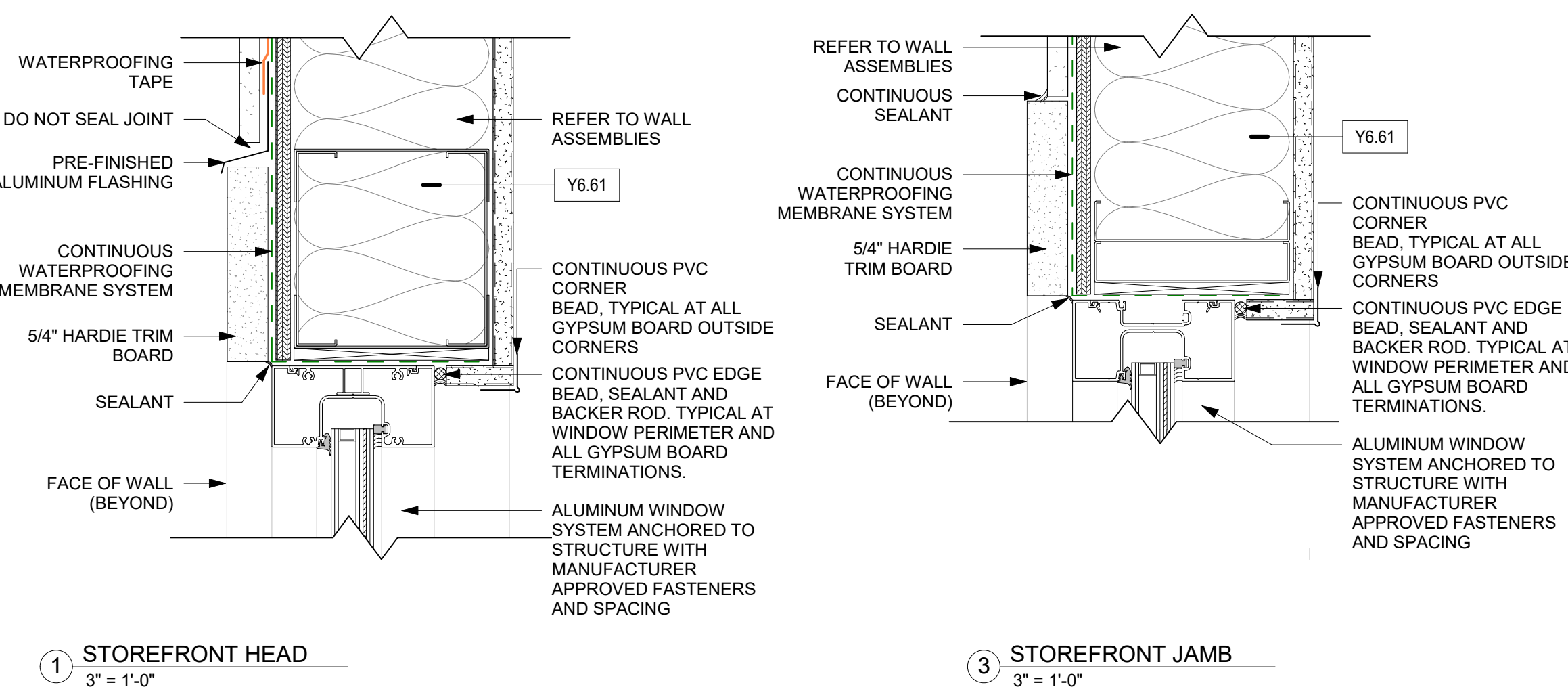
PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE: TRIM DETAILS

SHEET NUMBER: A-501

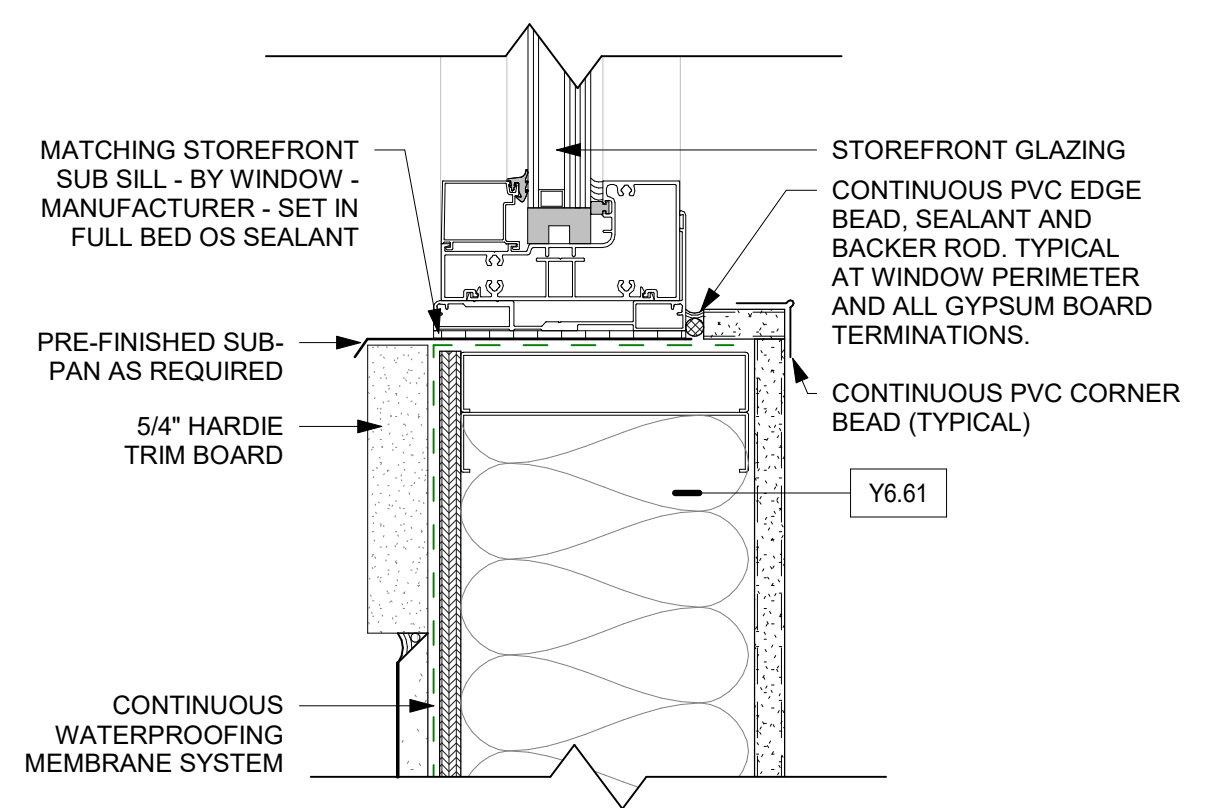
EDITION: FOR PERMIT - BID



1 STOREFRONT HEAD
3" = 1'-0"

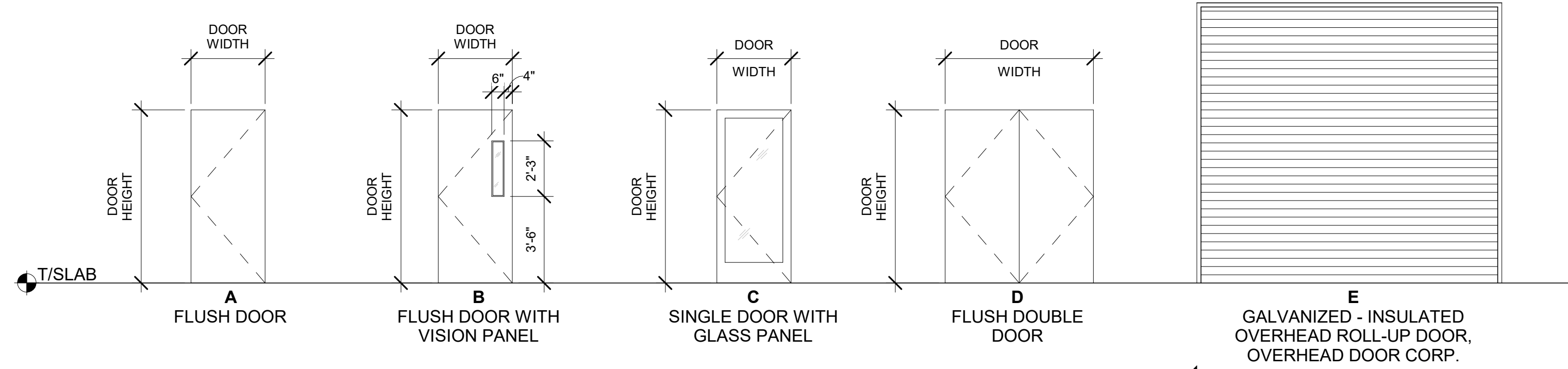
2 STOREFRONT JAMB
3" = 1'-0"

MARK	ROOM NAME	DOOR				FRAME			DETAIL			RATING	HARDWARE SET	COMMENTS	
		TYPE	MATERIAL	WIDTH	HEIGHT	MATERIAL	TYPE	WIDTH	HEAD	JAMB	SILL				
102	LOBBY	C	ALUM	3'-0"	7'-0"	2 1/2"	ALUM	SF3	5"	8/A-602	3/A-602	5/A-602	IMPACT/LEVEL E	HS-1	
103	OFFICE	B	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-2	
104	CONFERENCE	B	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-3	PROVIDE SOUND SEAL
105	DORM ROOM	A	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602	20 MIN / STC 40	HS-4	PROVIDE SMOKE/SOUND SEAL & FIRE RATED HARDWARE
106	FITNESS	B	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-5	PROVIDE SOUND SEAL
107	DORM ROOM	A	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602	20 MIN / STC 40	HS-4	PROVIDE SMOKE/SOUND SEAL & FIRE RATED HARDWARE
109	DORM ROOM	A	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602	20 MIN / STC 40	HS-4	PROVIDE SMOKE/SOUND SEAL & FIRE RATED HARDWARE
110A	CORRIDOR	D	SCWD	5'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-6	
110B	CORRIDOR	A	SCWD	2'-6"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-7	
111	BATH	A	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-8	
112	BATH	A	SCWD	3'-0"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-8	
113	DAYROOM	C	ALUM	3'-0"	7'-0"	2 1/2"	ALUM	SF3	5"	8/A-602	3/A-602	5/A-602	IMPACT/LEVEL E	HS-1	
115	KITCHEN	A	SCWD	2'-6"	7'-0"	1 3/4"	HM	A		8/A-602	7/A-602	1/A-602		HS-9	
116	DAYROOM	B	HM	3'-0"	7'-0"	1 3/4"	HM	C		4/A-602	3/A-602	2/A-602	90 MIN / STC 40	HS-10	PROVIDE SMOKE/SOUND SEAL & FIRE RATED HARDWARE
116A	APPARATUS BAYS	F	ALUM	16'-0"	14'-0"	1"	GALV	-		11/A-602	10/A-602	9/A-602		SEE SPEC	
116B	APPARATUS BAYS	F	ALUM	16'-0"	14'-0"	1"	GALV	-		11/A-602	10/A-602	9/A-602		SEE SPEC	
116C	APPARATUS BAYS	F	ALUM	16'-0"	14'-0"	1"	GALV	-		11/A-602	10/A-602	9/A-602		SEE SPEC	
116D	APPARATUS BAYS	F	ALUM	16'-0"	14'-0"	1"	GALV	-		11/A-602	10/A-602	9/A-602		SEE SPEC	
116E	APPARATUS BAYS	B	GHM	3'-0"	7'-0"	1 3/4"	GHM	B		4/A-602	3/A-602	2/A-602		HS-11	
117	STORAGE	A	GHM	3'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-12	
117A	STORAGE	D	SCWD	5'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-12	
118	AIR FILL ROOM	A	GHM	3'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-7	
119	BUNKER GEAR ROOM	A	GHM	3'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-12	
120	DECONTAMINATION ROOM	A	GHM	3'-0"	7'-0"	1 3/4"	HM	B		8/A-602	7/A-602	1/A-602		HS-12	
201	WELL PUMP ROOM	A	GHM	3'-0"	7'-0"	1 3/4"	GHM	B		4/A-602	3/A-602	2/A-602		HS-12	
202	FIRE PUMP ROOM	A	GHM	6'-0"	7'-0"	1 3/4"	GHM	B		4/A-602	3/A-602	2/A-602		HS-13	

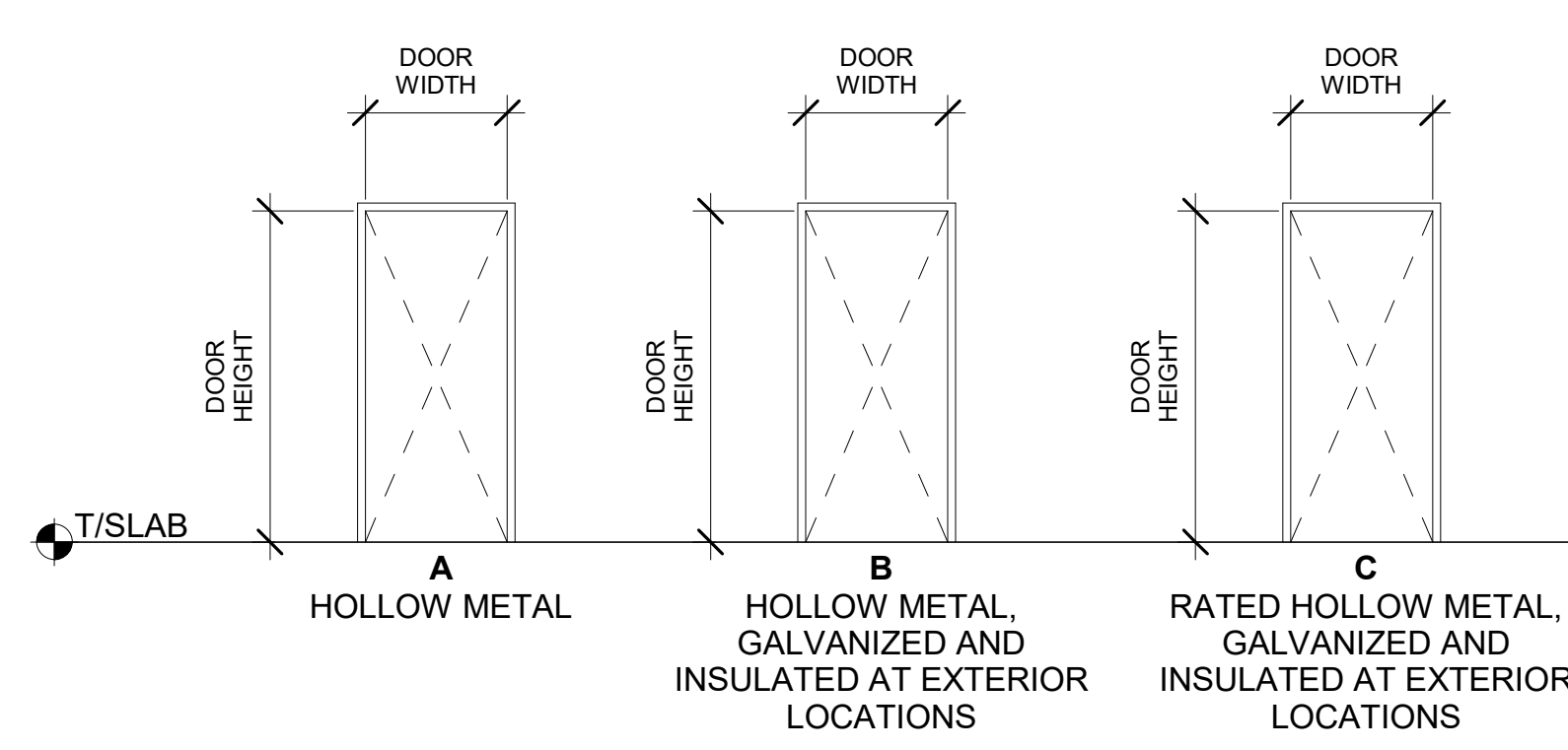


2 STOREFRONT SILL
3" = 1'-0"

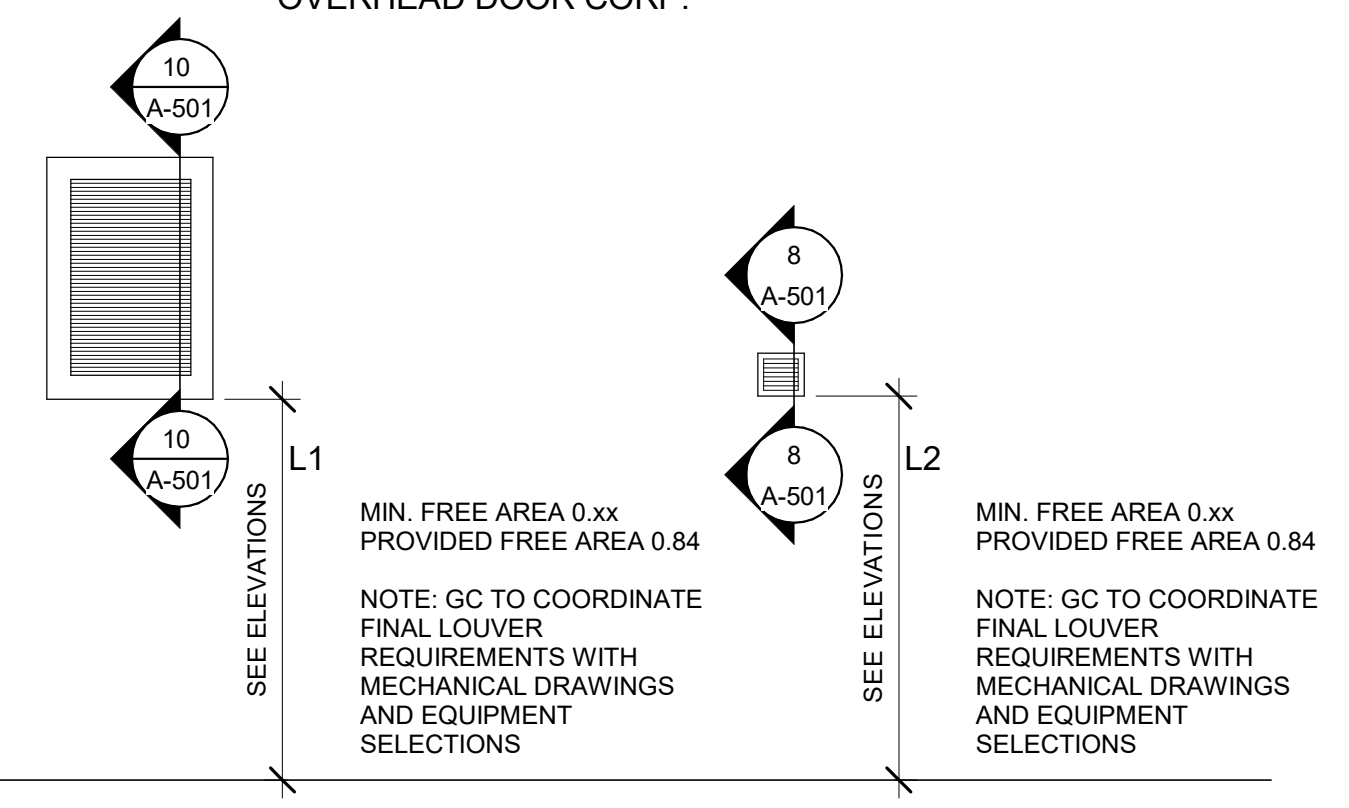
DOOR TYPES



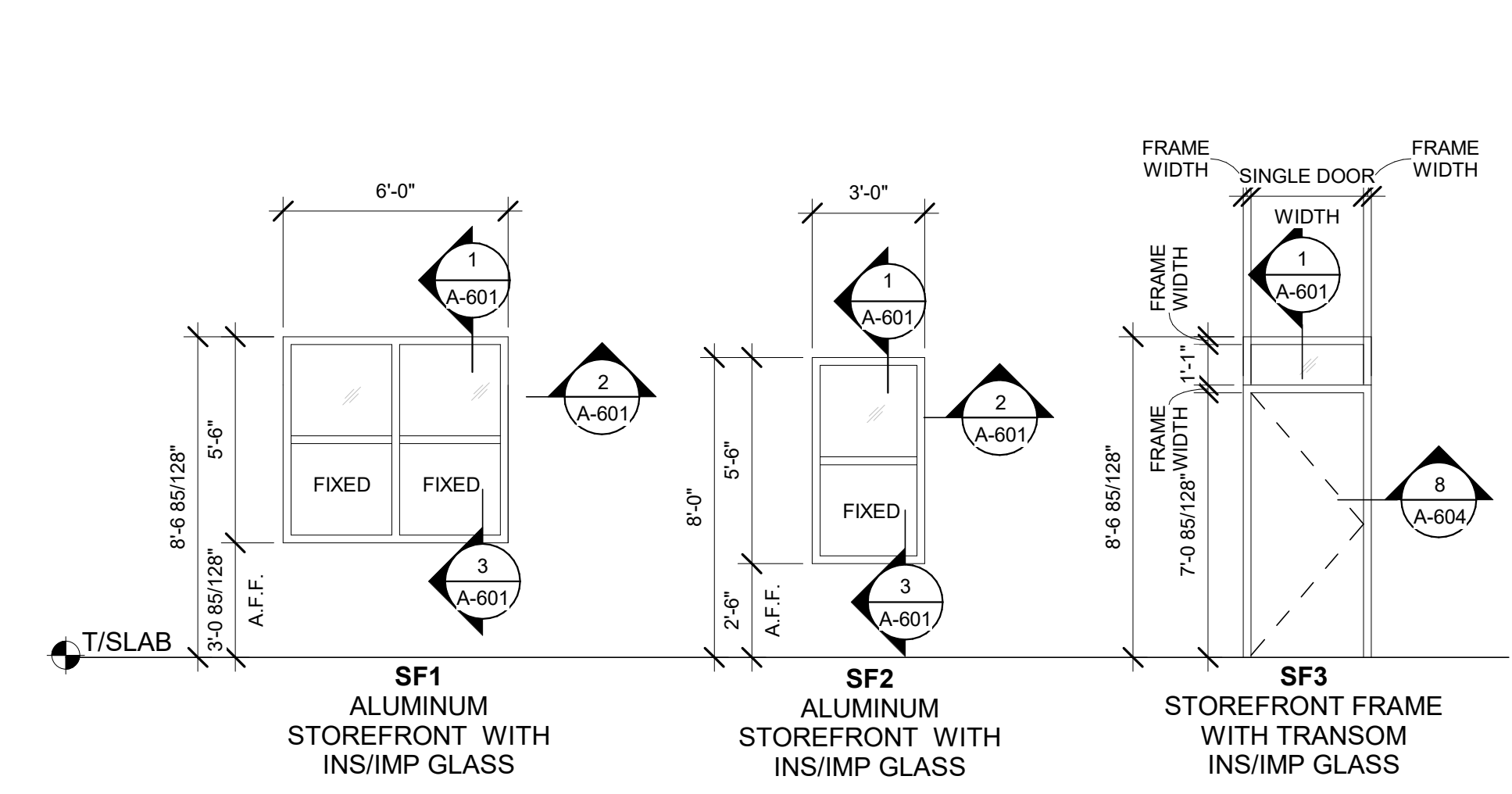
DOOR FRAME TYPES



LOUVER TYPES



WINDOW TYPES



HARDWARE SETS:

HS-1:
1 - KEYED LOCKING LEVER HANDLE (EXTERIOR)
1 - EMERGENCY PUSH BAR (INTERIOR)
1 - ELECTRONIC JAMB STRIKE
3 - HINGES
1 - OVERHEAD CLOSER
1 - WEATHERPROOFING SET
1 - DOOR SWEEP
1 - ADA COMPLIANT THRESHOLD
(COORDINATE FINAL HARDWARE WITH OWNERS ELECTRONIC LOCKING SYSTEM AND LEVEL E REQUIREMENTS)

HS-2:
1 - OFFICE LOCKING LEVER
3 - HINGES
1 - WALL STOP
1 - SOUND SEAL

HS-3:
1 - PASSAGE LEVER
3 - HINGES
1 - WALL STOP
1 - SOUND SEAL

HS-4:
1 - PRIVACY LOCKING LEVER
3 - HINGES
1 - DOOR CLOSER
1 - WALL STOP
1 - SOUND/SMOKE SEAL
(FIRE RATED HARDWARE)

HS-5:
1 - PASSAGE LEVER
3 - HINGES
1 - DOOR CLOSER
1 - WALL STOP
1 - SOUND SEAL

HS-6:
1 - STOREROOM LOCKING HANDLE
1 - DUMMY HANDLE
6 - HINGES
1 - TOP/BOTTOM FLUSH BOLT PAIR (CONCEALED)

HS-7:
1 - STOREROOM LEVER
3 - HINGES

HS-8:
1 - PRIVACY LOCKING LEVER
3 - HINGES
1 - WALL STOP

HS-9:
1 - PASSAGE LEVER
3 - HINGES

HS-10:
1 - KEYED LOCKING LEVER HANDLE (EXTERIOR)
1 - EMERGENCY PUSH BAR (INTERIOR)
1 - ELECTRONIC JAMB STRIKE
3 - HINGES
1 - OVERHEAD CLOSER
1 - WEATHERPROOFING SEAL
1 - SOUND SEAL
1 - DOOR SWEEP
1 - ADA COMPLIANT THRESHOLD
(FIRE RATED HARDWARE)
(COORDINATE FINAL HARDWARE SELECTIONS WITH OWNERS ELECTRONIC LOCKING SYSTEM)

HS-11:
1 - KEYED LOCKING LEVER HANDLE (EXTERIOR)
1 - EMERGENCY PUSH BAR (INTERIOR)
3 - HINGES
1 - OVERHEAD CLOSER
1 - WEATHERPROOFING SEAL
1 - DOOR SWEEP
1 - DRIP CAP
1 - ADA COMPLIANT THRESHOLD

HS-12:
1 - STOREROOM LEVER
3 - HINGES
1 - OVERHEAD CLOSER
1 - WEATHERPROOFING SEAL
1 - DOOR SWEEP
1 - ADA COMPLIANT THRESHOLD

HS-13:
1 - KEYED LOCKING LEVER HANDLE SET
3 - HINGES
1 - WEATHERPROOFING SEAL
1 - DOOR SWEEP
1 - DRIP CAP
1 - ADA COMPLIANT THRESHOLD

GLAZING LEGEND

I	INSULATED 5/8" GLASS (TYPICAL AT GLASS LITES IN EXTERIOR DOORS)
TI	TEMPERED INSULATED 1" GLASS WITH LOW-E COATING.
CT	CLEAR TEMPERED 1/4" GLASS (TYPICAL AT GLASS LITES IN INTERIOR DOORS)
INS	1" INSULATED GLASS WITH LOW-E COATING
FG	FIRE GLAZING

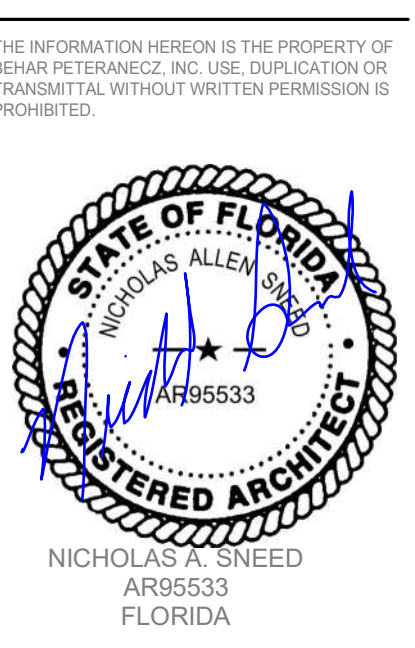
ABBREVIATIONS

ALUM	ALUMINUM STOREFRONT/CURTAIN WALL MANUF FINISH
HM	HOLLOW METAL - PRIMED AND PAINTED
GHM	GALVANIZED HOLLOW METAL - PRIMED AND PAINTED
SCWD	SOLID WOOD CORE OR WOOD FINISH METAL
INS/IMP	INSULATED AND IMPACT GLASS
INS	INSULATED
TG	TEMPERED GLASS
MANF	MANUFACTURER
WD	WOOD

GENERAL NOTES

- SECURITY AND ACCESS CONTROL DEVICES BY OTHERS.
- FINISHES ON EXTERIOR WINDOW WALL AND STOREFRONT WINDOW & DOOR SYSTEMS SHALL MATCH U.N.O.
- ALL WINDOW FRAMES AND STOREFRONT TO BE PROVIDED IN MANUFACTURERS STANDARD WHITE COLOR. ALL GLAZING TO BE PROVIDED AS INSULATED/MISSILE LEVEL E IMPACT RATED WITH LOW-E COATING.
- CONTRACTOR SHALL PROVIDE WINDOW SUBMITTAL FOR APPROVAL PRIOR TO PLACING WINDOW ORDER. CONTRACTOR SHALL FIELD VERIFY ALL ROUGH OPENINGS PRIOR TO FINALIZING WINDOW ORDER AND START OF FABRICATION.
- REFER TO PLANS FOR DOOR HANDING AND SWING DIRECTION.

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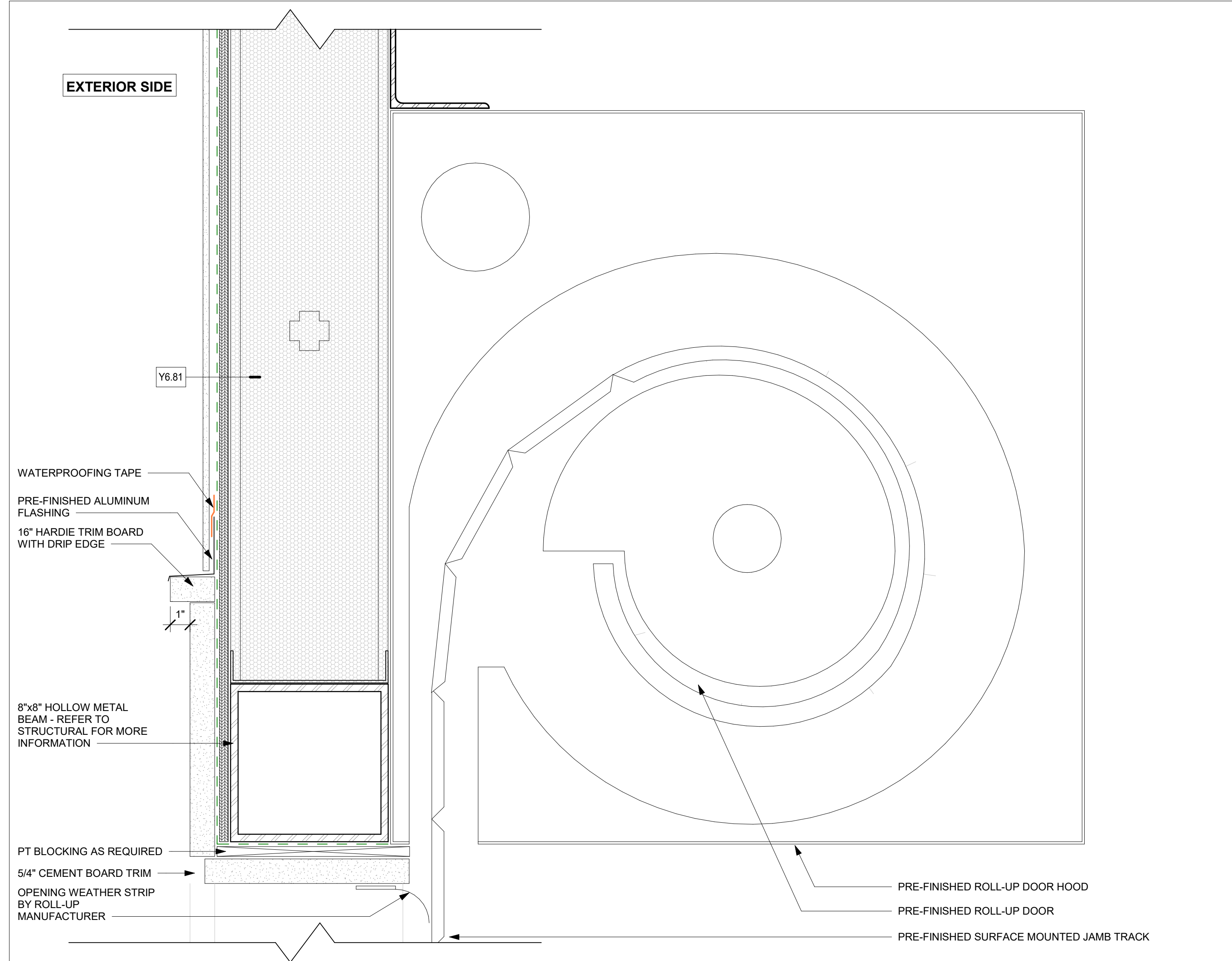


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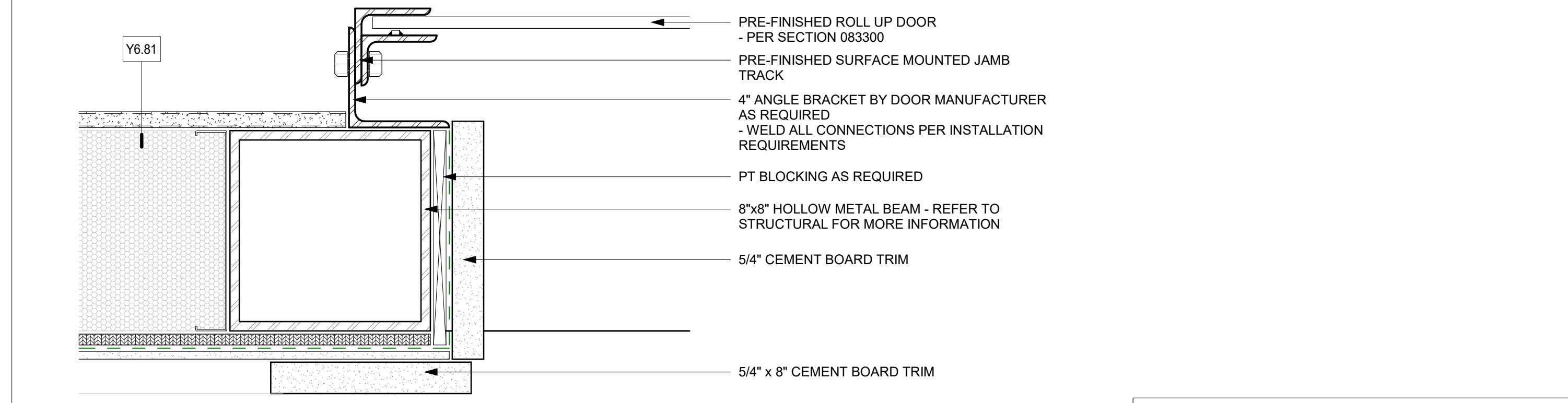
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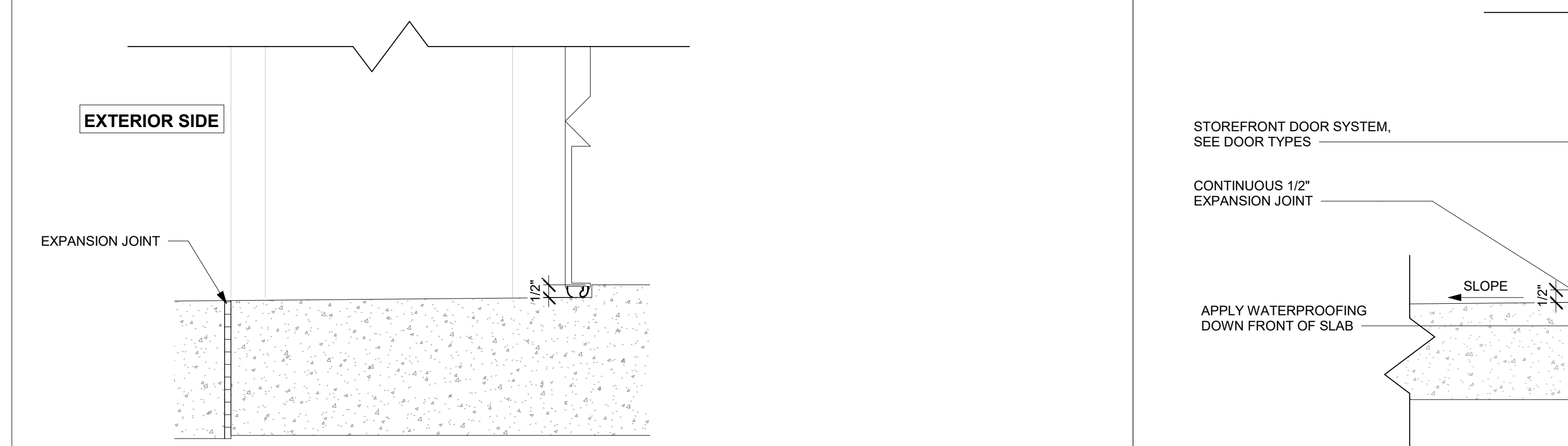
PROJECT NO: 23.014
ISSUE DATE: 09.18.2024
DRAWING TITLE: DOOR SCHEDULE
SHEET NUMBER: A-601
EDITION:
FOR PERMIT - BID



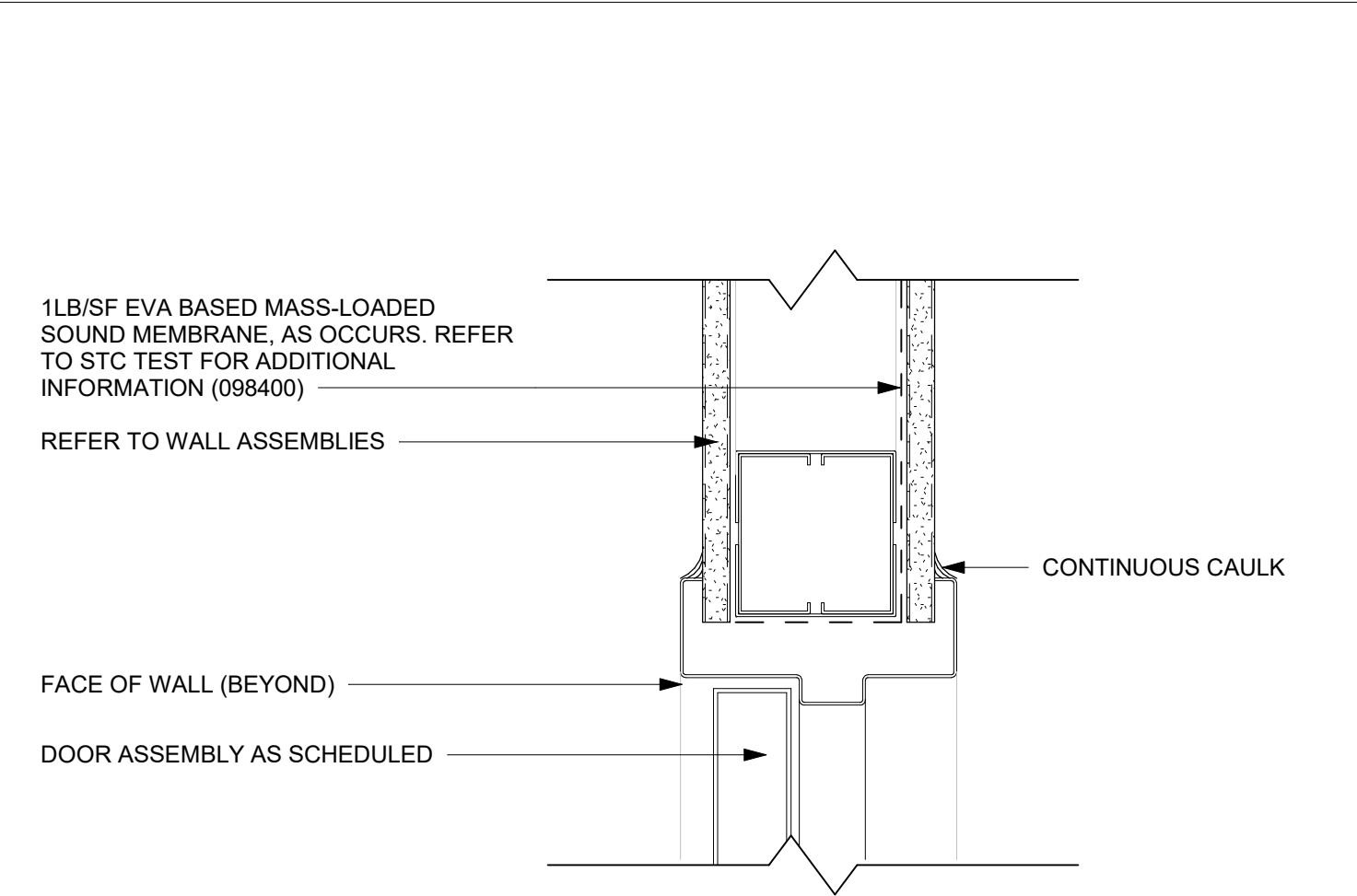
11 ROLL UP DOOR HEAD
3" = 1'-0"



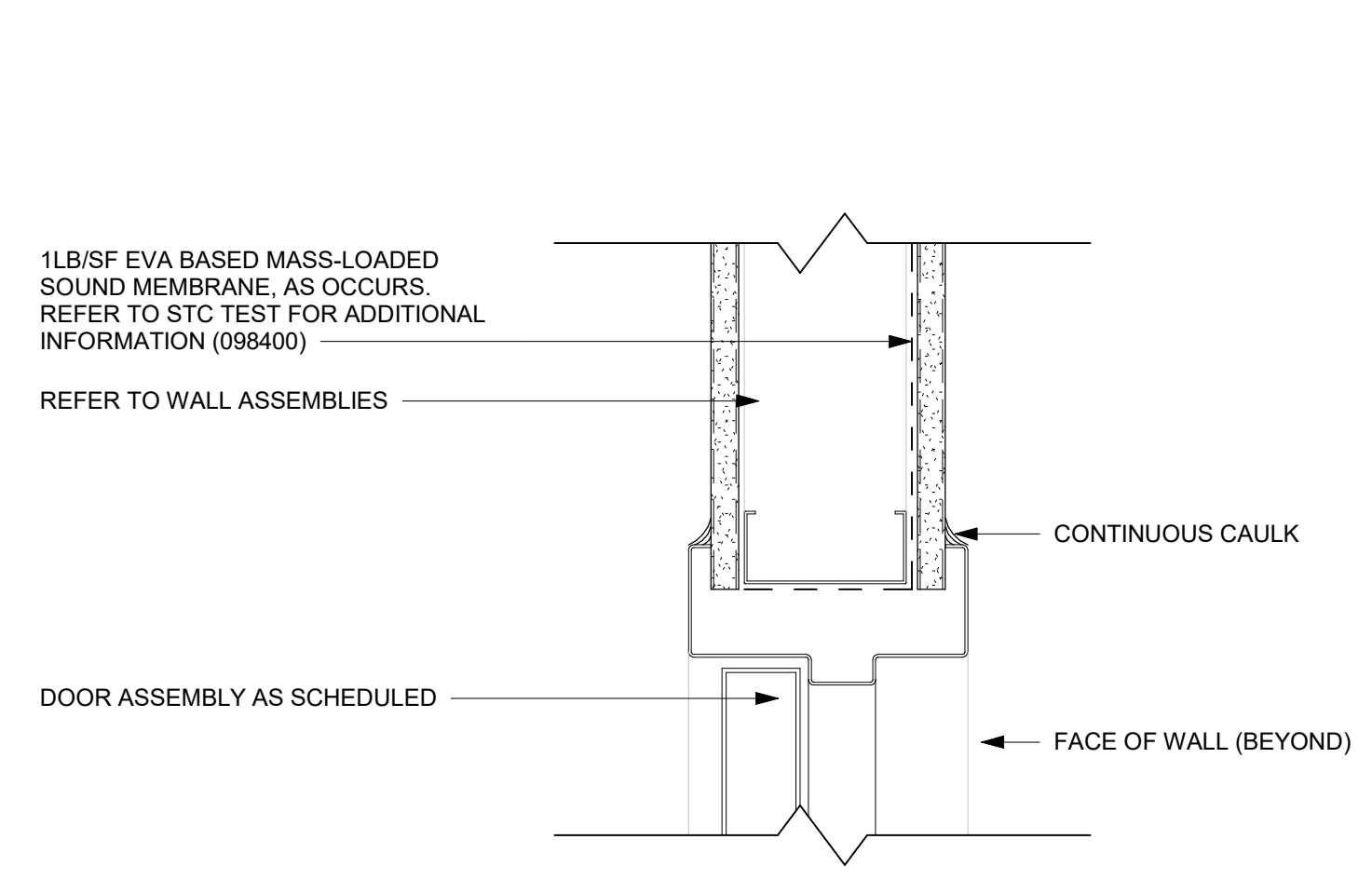
10 ROLL DOWN DOOR JAMB
3" = 1'-0"



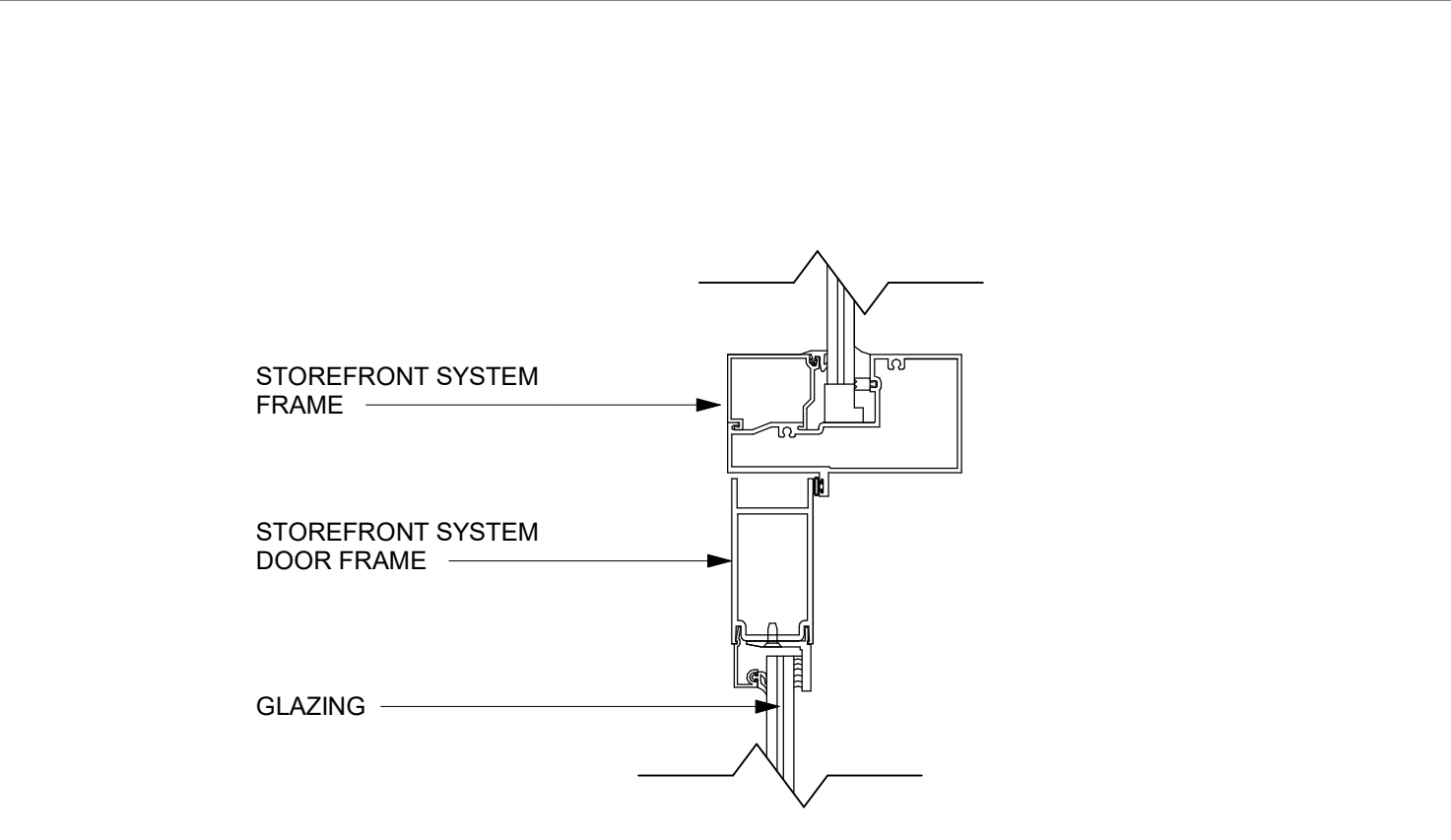
9 ROLL DOWN DOOR SILL
3" = 1'-0"



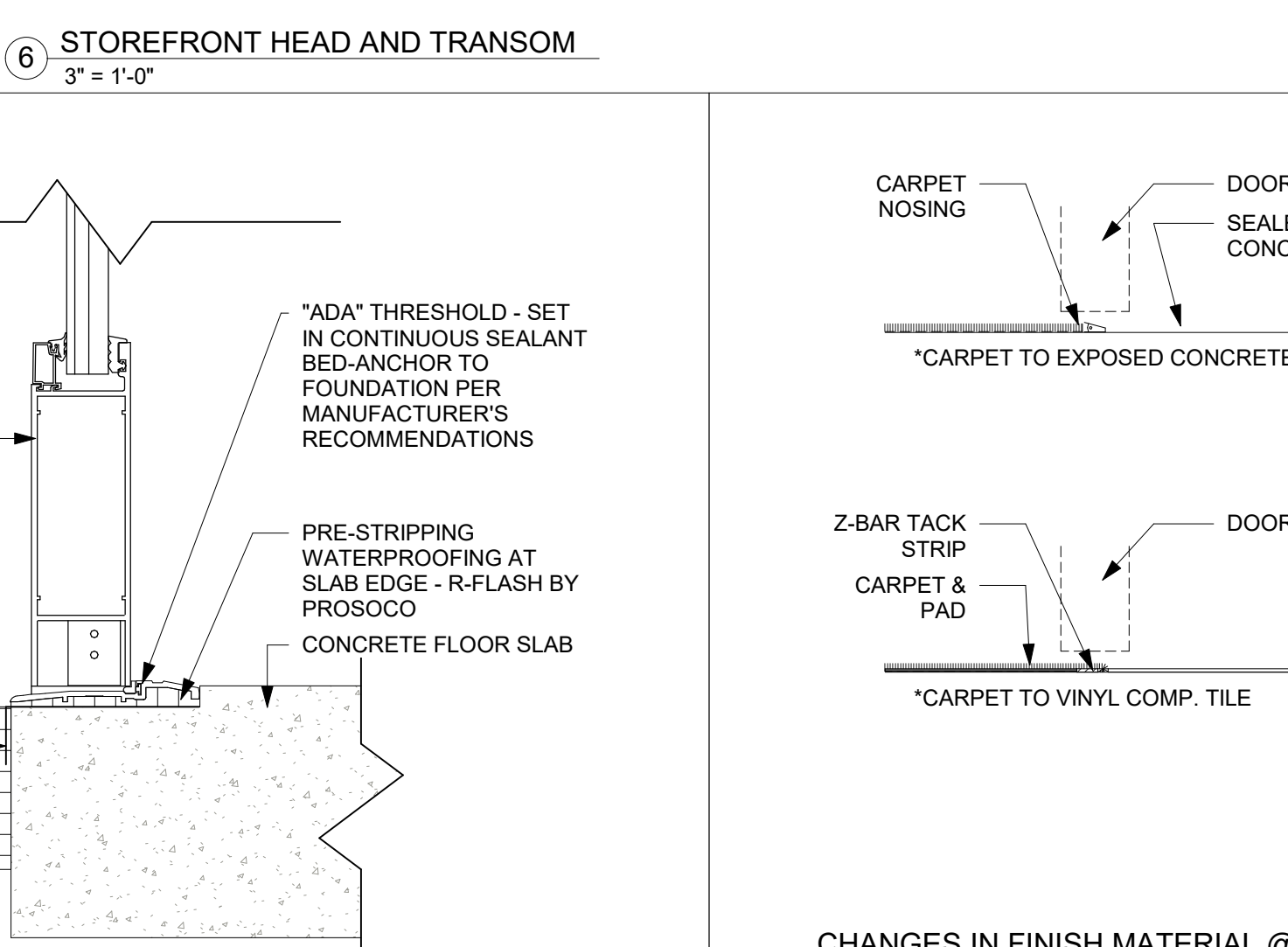
8 HOLLOW METAL DOOR HEAD
3" = 1'-0"



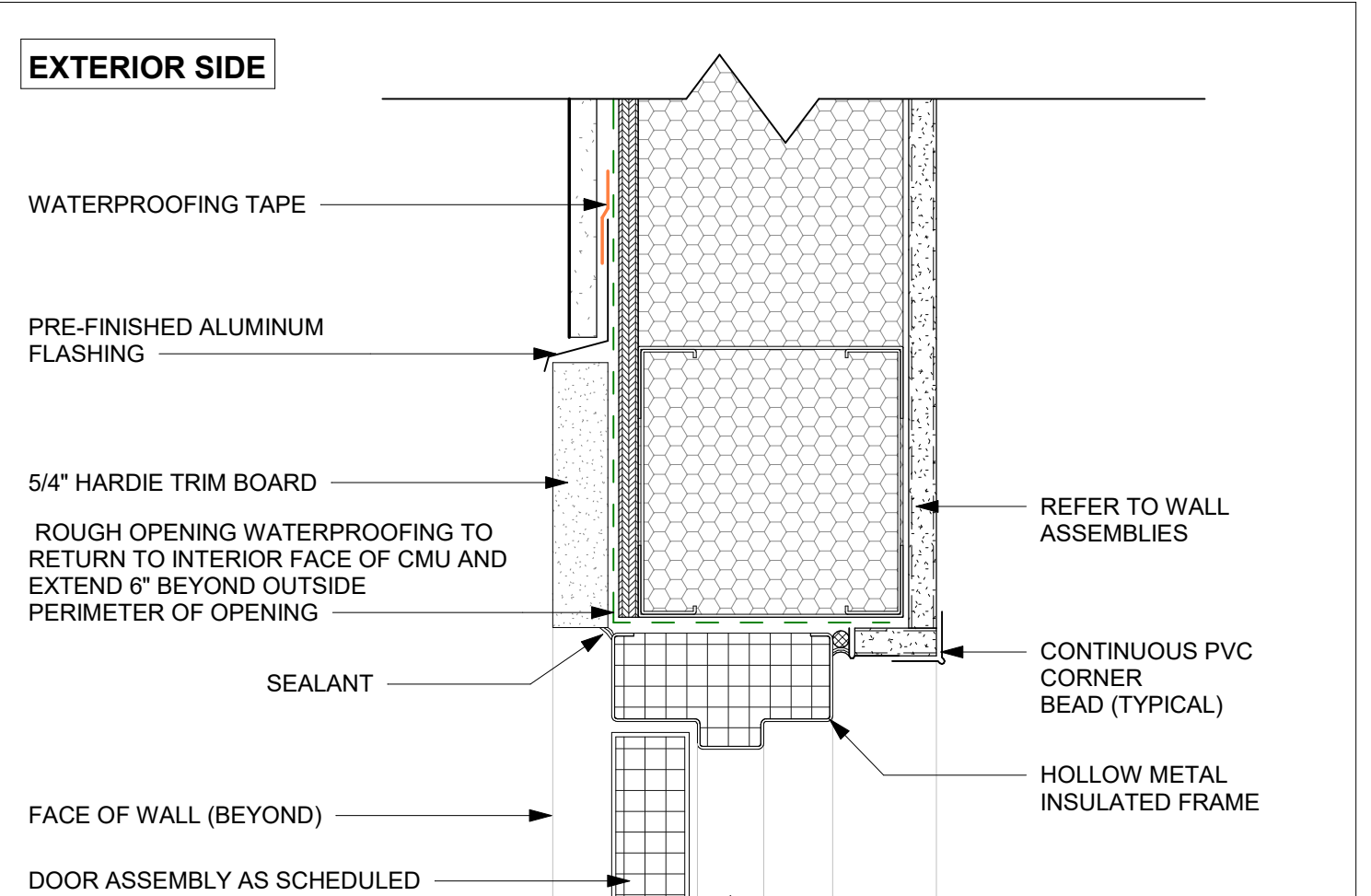
7 HOLLOW METAL DOOR JAMB
3" = 1'-0"



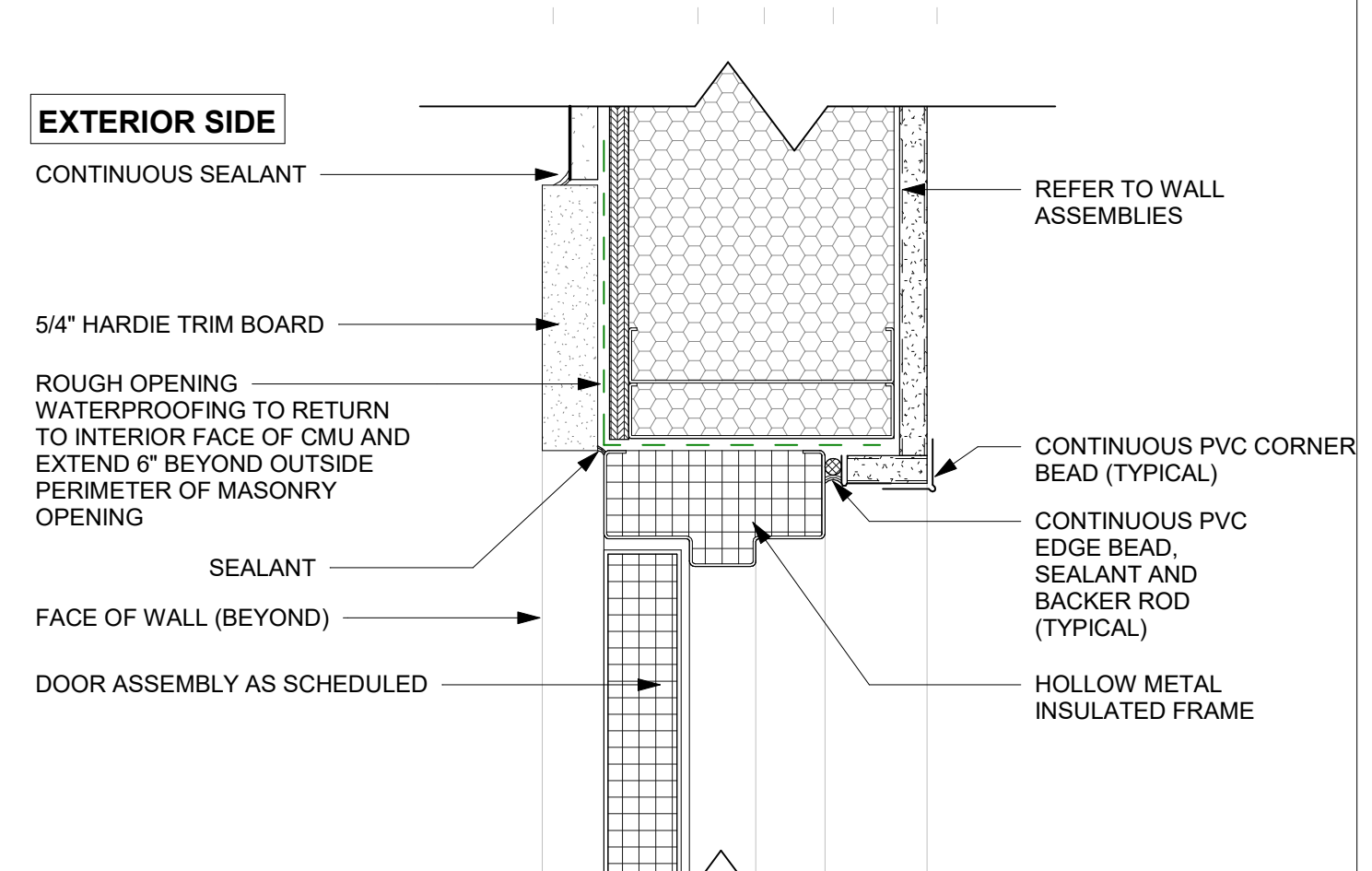
6 STOREFRONT HEAD AND TRANSOM
3" = 1'-0"



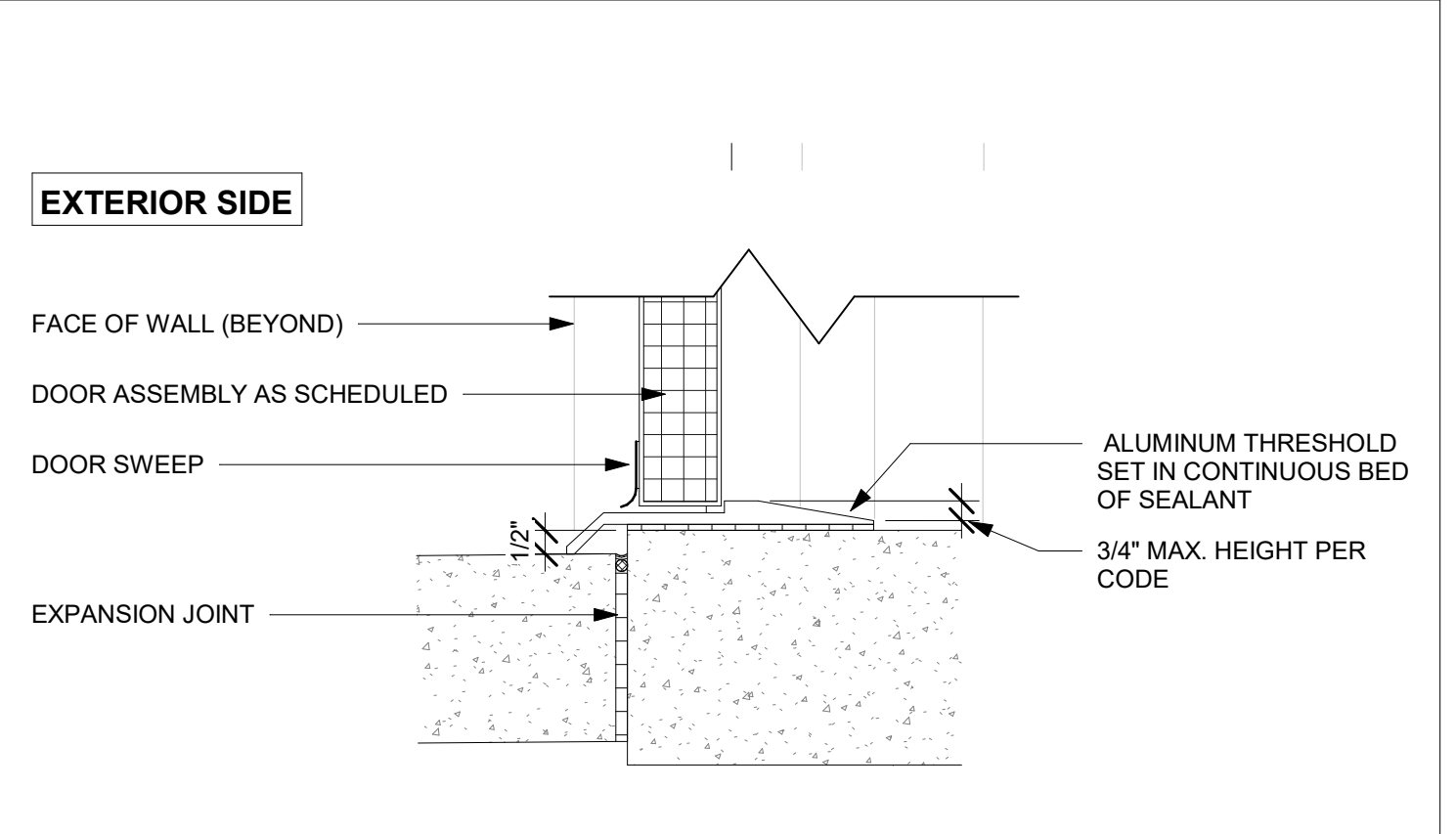
5 STOREFRONT FOOT SILL
3" = 1'-0"



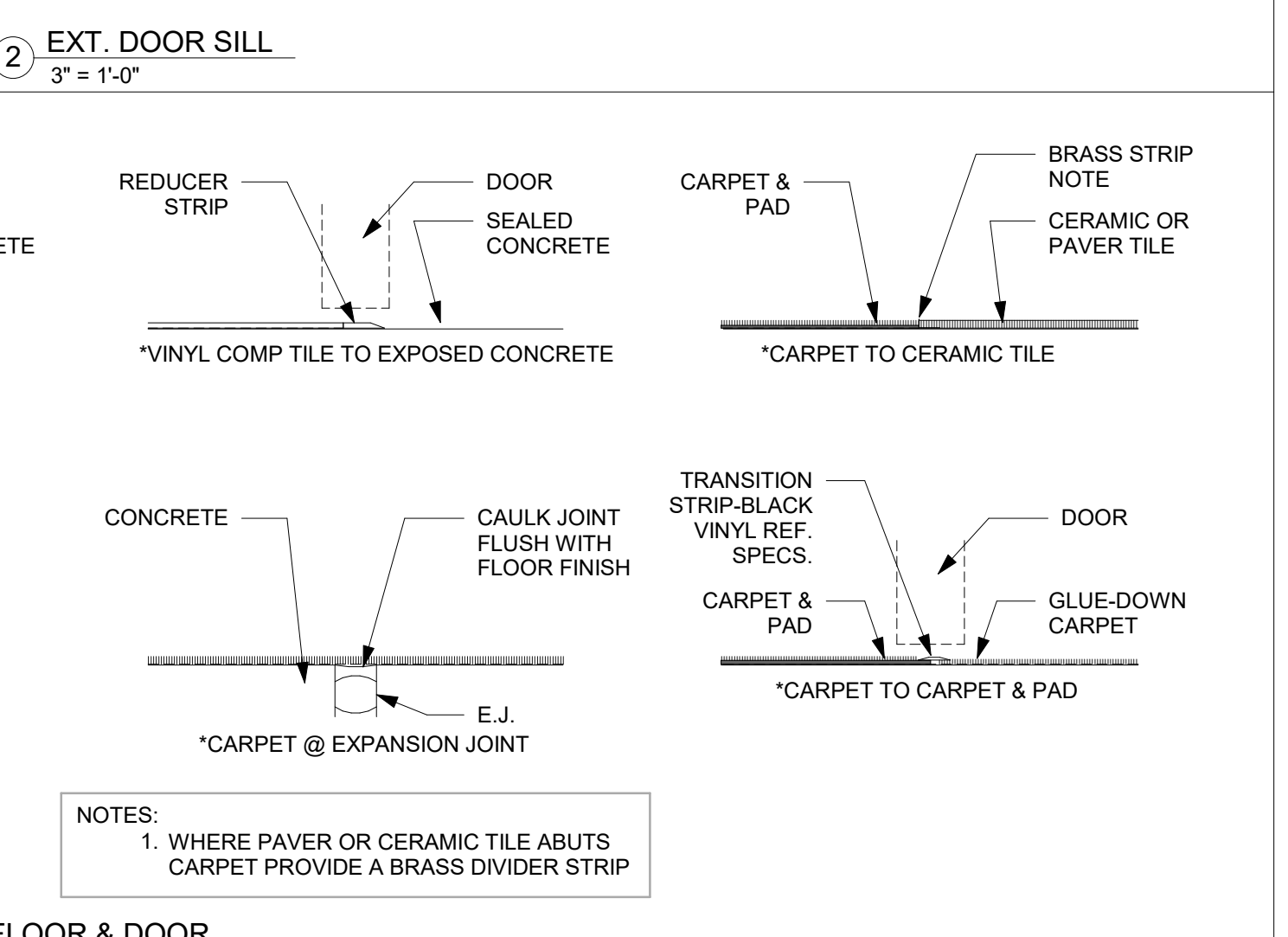
4 METAL STUD EXT. DOOR HEAD
3" = 1'-0"



3 METAL STUD EXT. DOOR JAMB
3" = 1'-0"



2 EXT. DOOR SILL
3" = 1'-0"



1 CHANGES IN FINISH MATERIAL @ FLOOR & DOOR LOCATIONS
3" = 1'-0"

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STATE OF FLORIDA
 NICHOLAS H. SNEED
 ARCHITECT
 AR95533
 FLORIDA

FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:
 # Date Description
 PROJECT NO: 23.014
 ISSUE DATE: 09.18.2024
 DRAWING TITLE: DOOR DETAILS
 SHEET NUMBER: A-602
 EDITION:
 FOR PERMIT - BID

ROOM FINISH SCHEDULE

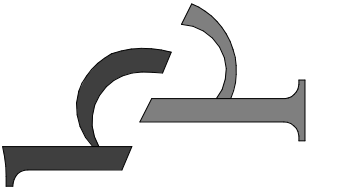
REFER TO FOUNTAIN COMMUNITY COMPLEX FIRE STATION INTERIOR DESIGN FINISH SPECIFICATION BOOK FOR COMPLETE SPECIFICATIONS

ROOM NO	ROOM NAME	FLOOR	BASE	WALL FINISH				TRIM	CABINET	COUNTERTOP
				NORTH	EAST	SOUTH	WEST			
101	COVERED ENTRY	CONCRETE								
102	LOBBY	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
103	OFFICE	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
104	CONFERENCE	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
105	BUNK ROOM	CT	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
106	FITNESS	RF	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
107	BUNK ROOM	CT	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
108	STORAGE	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
109	BUNK ROOM	CT	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
110	CORRIDOR	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
111	BATHROOM	EPOXY	EPOXY (4")	PT-01	PT-01	PT-01	PT-01	PT-02		
112	BATHROOM	EPOXY	EPOXY (4")	PT-01	PT-01	PT-01	PT-01	PT-02		
113	DAYROOM	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
114	KITCHEN	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02	CAB	SS-01
115	PANTRY	LVP	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
116	APPARATUS / BAYS	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
117	STORAGE	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
118	AIR FILL ROOM	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
119	BUNKER GEAR ROOM	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		
120	DECONTAMINATION ROOM	CONCRETE	VB	PT-01	PT-01	PT-01	PT-01	PT-02		

LEGEND		
FLOOR	CONCRETE	CONCRETE
	EPOXY	EPOXY COATING
	RF	RUBBER FLOORING
	VB	VINYL BASE
	LVP	LUXURY VINYL PLANK
	CT	CARPET TILE
WALLS	PT	PAINTED FINISH - INTERIOR OR EXTERIOR AS REQUIRED. MINIMUM SEMI GLOSS FINISH IS RECOMMENDED IN ALL BATHROOMS AND OTHER DAMP/WET LOCATIONS.

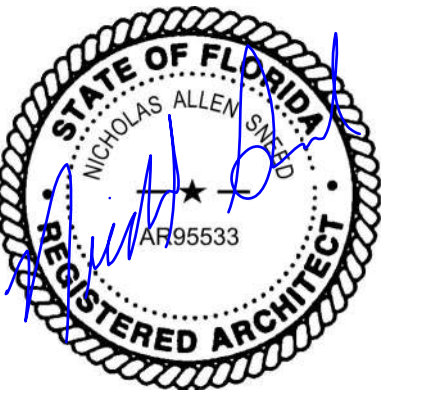
GENERAL NOTES

1. FINISH DESIGNATIONS CONTAINED HEREIN ARE FOR BIDDING AND PRICING PURPOSES ONLY. ALL FINAL FINISH MATERIAL SELECTIONS SHALL BE DETERMINED AND APPROVED BY OWNER, INCLUDING BUT NOT LIMITED TO FLOORING, PAINT, TRIM, ETC.
2. FLOOR FINISH SELECTIONS SHALL HAVE COEFFICIENTS OF FRICTION THAT MEET OR EXCEED MINIMUM REQUIREMENTS FOR THE INTENDED APPLICATION (INTERIOR, EXTERIOR, WET LOCATIONS, ETC.)
3. ALL FLOORING TRANSITIONS SHALL COMPLY WITH ADA REQUIREMENTS (1/2" MAX. HEIGHT TRANSITION PER FBC 303)
4. ALL FLOORING TRANSITIONS STRIPS SHALL BE SUBMITTED AND APPROVED BY THE ARCHITECT PRIOR TO PURCHASE AND INSTALLATION.
5. COORDINATE WITH ARCHITECT FOR ANY TRANSITION CONDITIONS NOT LISTED



Behar Peteranecz
 ARCHITECTURE | INTERIORS
840 HARRISON AVE SUITE 101 | PANAMA CITY, FLORIDA 32401
 2430 TERMINAL DRIVE SOUTH | ST. PETERSBURG, FLORIDA 33712
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NICHOLAS A. SNEED
AR95533
FLORIDA

**FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION**
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:		
#	Date	Description

PROJECT NO: **23.014**

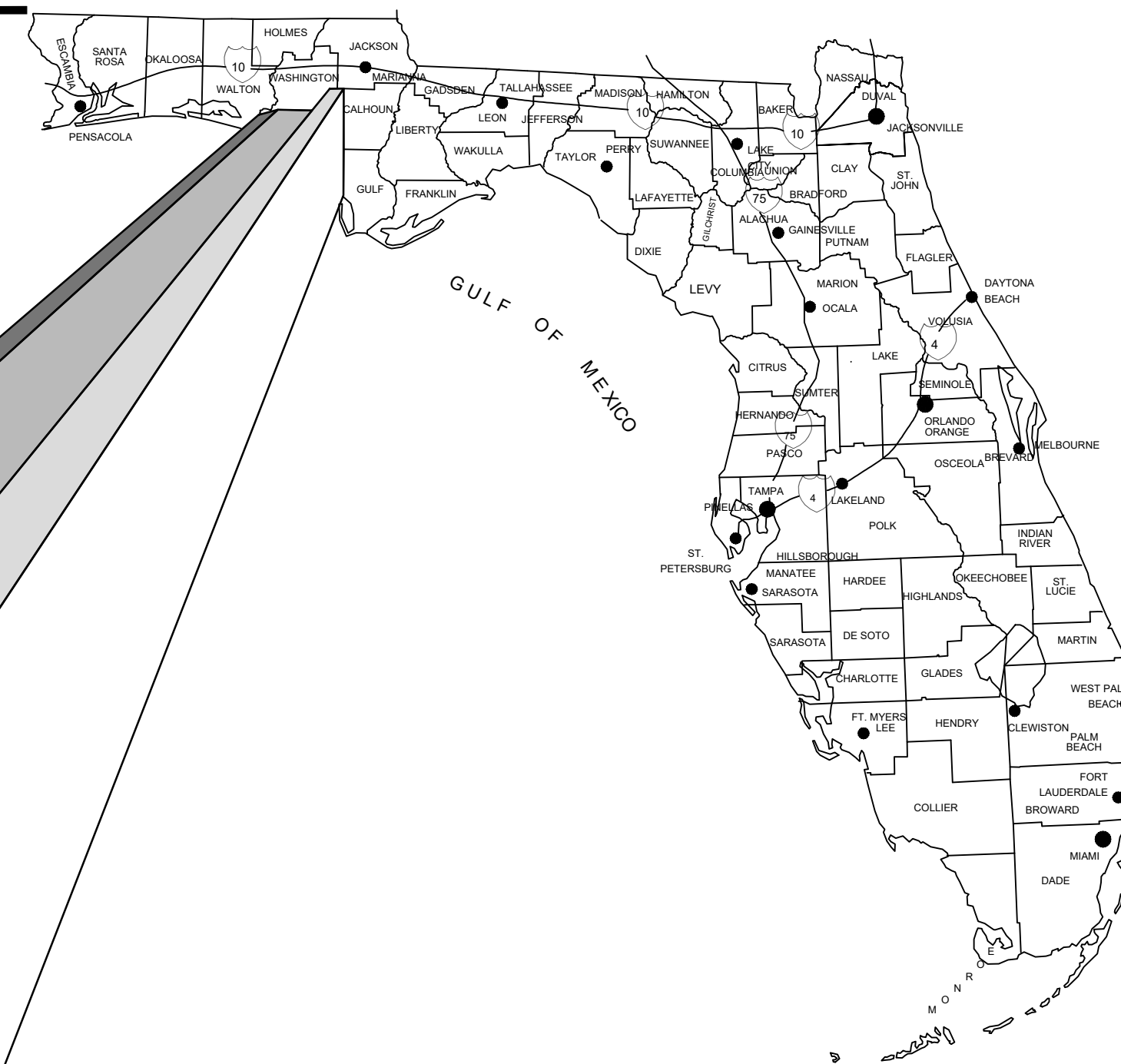
ISSUE DATE: **09.18.2024**

DRAWING TITLE: **FINISH SCHEDULE**

SHEET NUMBER: **A-701**

EDITION: **FOR PERMIT - BID**

FOUNTAIN COMMUNITY COMPLEX FIRE STATION BAY COUNTY, FLORIDA



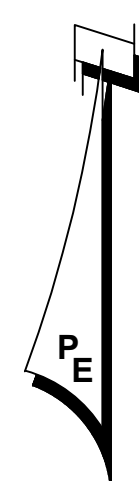
PREPARED FOR:
BP ARCHITECTURE
840 HARRISON AVENUE
SUITE 1
PANAMA CITY, FLORIDA 32401

BAY COUNTY DEVELOPMENT NOTES:

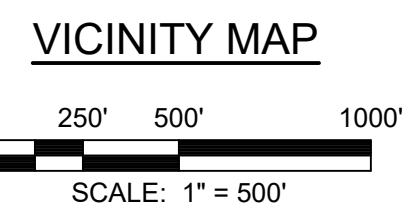
1. THE DEVELOPER OR DEVELOPER'S DESIGNATED AGENT MUST NOTIFY BAY COUNTY PUBLIC WORKS (JIM FAULKNER 850.248.8301 ~ jfaulkner@baycountyfl.gov) AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION, INCLUDING LAND CLEARING OPERATIONS. A COPY OF NOTICE OF INTENT TO USE NPDES GENERIC PERMIT FOR STORMWATER DISCHARGE FROM LARGE AND SMALL CONSTRUCTION ACTIVITIES WILL NEED TO BE PROVIDED TO PUBLIC WORKS ENGINEERING DIVISION.
2. IT IS UNLAWFUL FOR ANY PERSON TO DUMP, LEAVE OR BURY ANY SOLID WASTE ON PUBLIC OR PRIVATE PROPERTY. FAILURE TO DISPOSE OF SOLID WASTE AS SPECIFIED IN SECTION 22-149 OF BAY COUNTY MUNICIPAL CODE OF ORDINANCES IS PUNISHABLE UNDER SECTION 1-6.
3. THE DEVELOPER OR DEVELOPER'S DESIGNATED AGENT WILL NOTIFY BAY COUNTY UTILITY PERMITTING (DON HAMM 850-248-5010 ~ dhamm@baycountyfl.gov) AT LEAST 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.

FWC NOTICE REGARDING FLORIDA BLACK BEARS:

ACCORDING TO FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION (FWC) DATA, THERE IS THE POTENTIAL FOR FLORIDA BLACK BEARS TO OCCUR IN THE PROJECT AREA. DURING THE CONSTRUCTION PHASE, CONSTRUCTION SITES SHALL BE KEPT CLEAN WITH BEAR-RESISTANT CONTAINERS FOR ANY REFUSE THAT WOULD ATTRACT BEARS, WHICH INCLUDES ALL FOOD-RELATED MATERIALS.



ADDRESS: 12421 HWY 20 E ~ (S35-T1N-R12W)
LAT ~ 30° 26' 10.30" N
LONG ~ 85° 25' 0.81" W



FOR PERMIT - BID

SEPTEMBER 17, 2024
PROJECT No. 11377

DRAWING INDEX

- | No. - | TITLE |
|-------|---|
| 0 - | COVER SHEET |
| 1 - | EXISTING CONDITIONS, DEMO, AND EROSION CONTROL PLAN |
| 2 - | SITE PLAN |
| 3 - | GRADING AND DRAINAGE PLAN |
| 4 - | GRADING AND DRAINAGE DETAILS |
| 5 - | UTILITY PLAN |
| 6 - | EROSION CONTROL NOTES AND DETAILS |
| 7 - | EROSION CONTROL DETAILS |
| 8 - | CONSTRUCTION DETAILS |
| 9 - | CONSTRUCTION DETAILS |
| 10 - | UTILITY DETAILS |
| 11 - | UTILITY DETAILS |
| 12 - | GENERAL NOTES |
| 13 - | STORMWATER POLLUTION PREVENTION PLAN |

PREPARED BY:

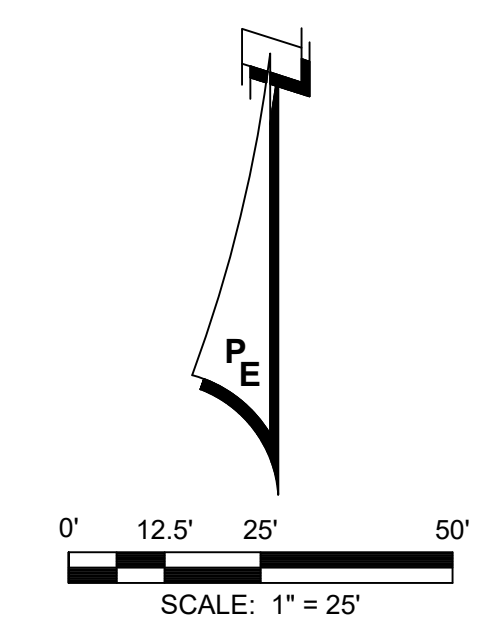
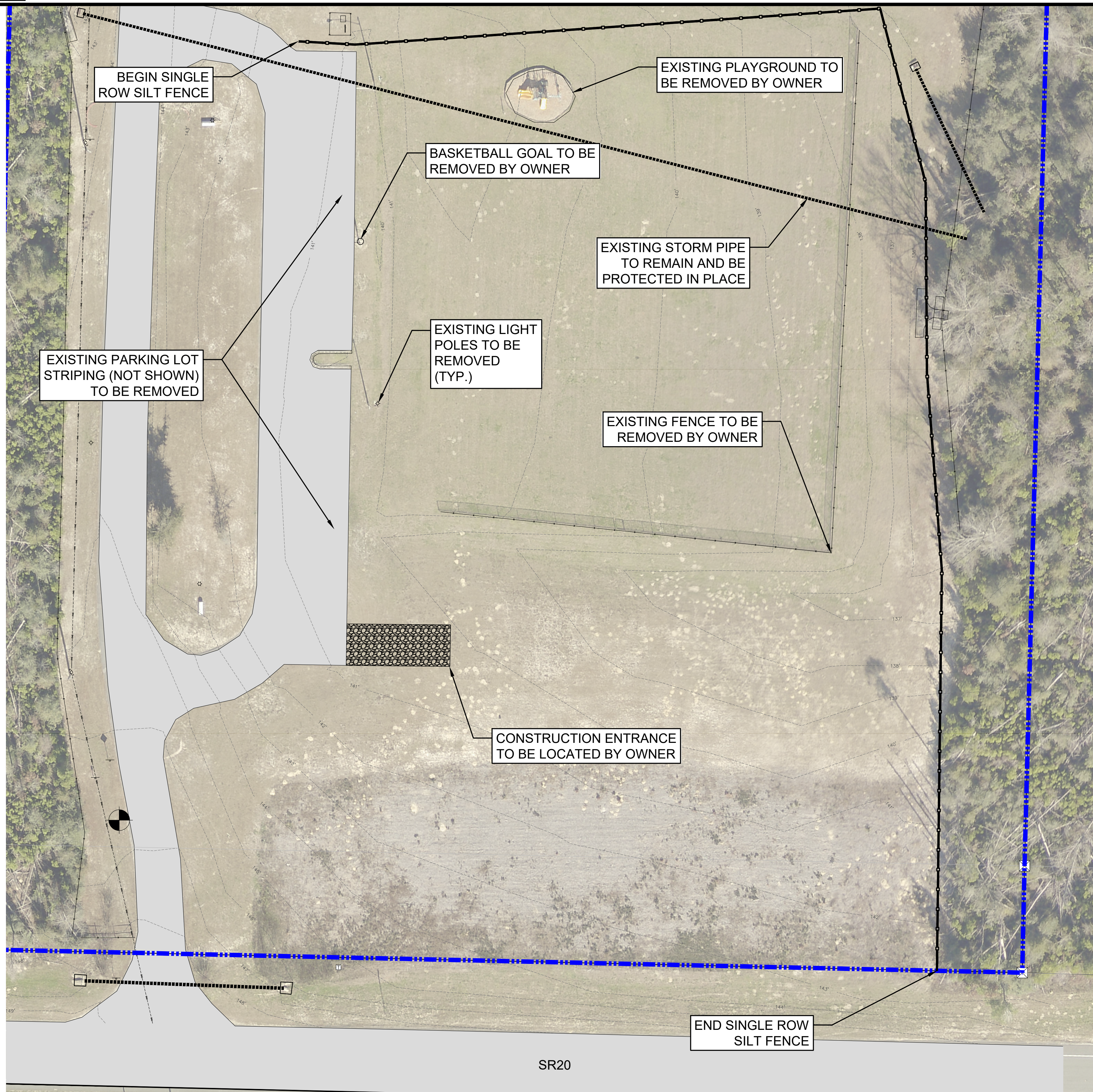


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This item has been digitally signed and sealed by J. Doug Crook, PE on the date adjacent to the seal. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

Always call 811 two full business days before you dig to have underground utilities located and marked.





LEGEND

- PROPERTY BOUNDARY
-

- NOTES**
1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF DEMOLITION.
 2. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF UNKNOWN UNDERGROUND UTILITIES.
 3. CONTRACTOR SHALL PROVIDE EROSION CONTROL FOR ALL EXISTING DRAINAGE STRUCTURES TO REMAIN UNLESS NOTED OTHERWISE.
 4. CONTRACTOR SHALL TAKE DUE CARE WHEN INSTALLING SILT FENCE AROUND EXISTING UNDERGROUND UTILITIES.
 5. CONTRACTOR MAY ADJUST SILT FENCE LOCATIONS WITHIN INDICATED LIMITS OF CONSTRUCTION AS NEEDED TO PERFORM WORK.

Date: 9/17/2024 8:01 AM File: P:\11377 Fountain Fire Station\11377E.dwg

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: JDC
DRAWN BY: DJJ
REVIEWED BY: JDC
ISSUE DATE: SEPTEMBER 17, 2024
ACAD FILE NAME: 11377E1.dwg

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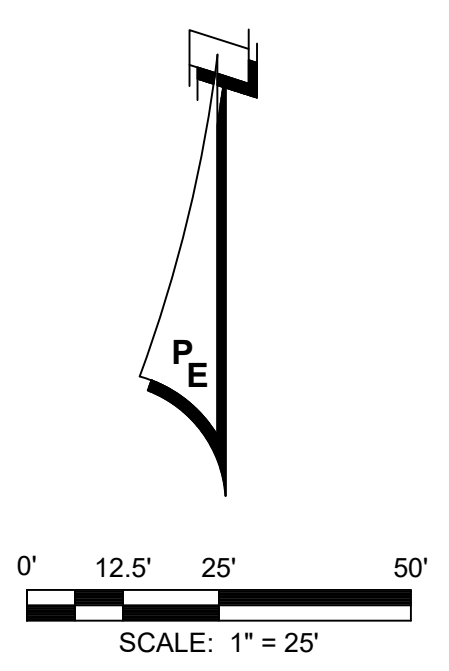
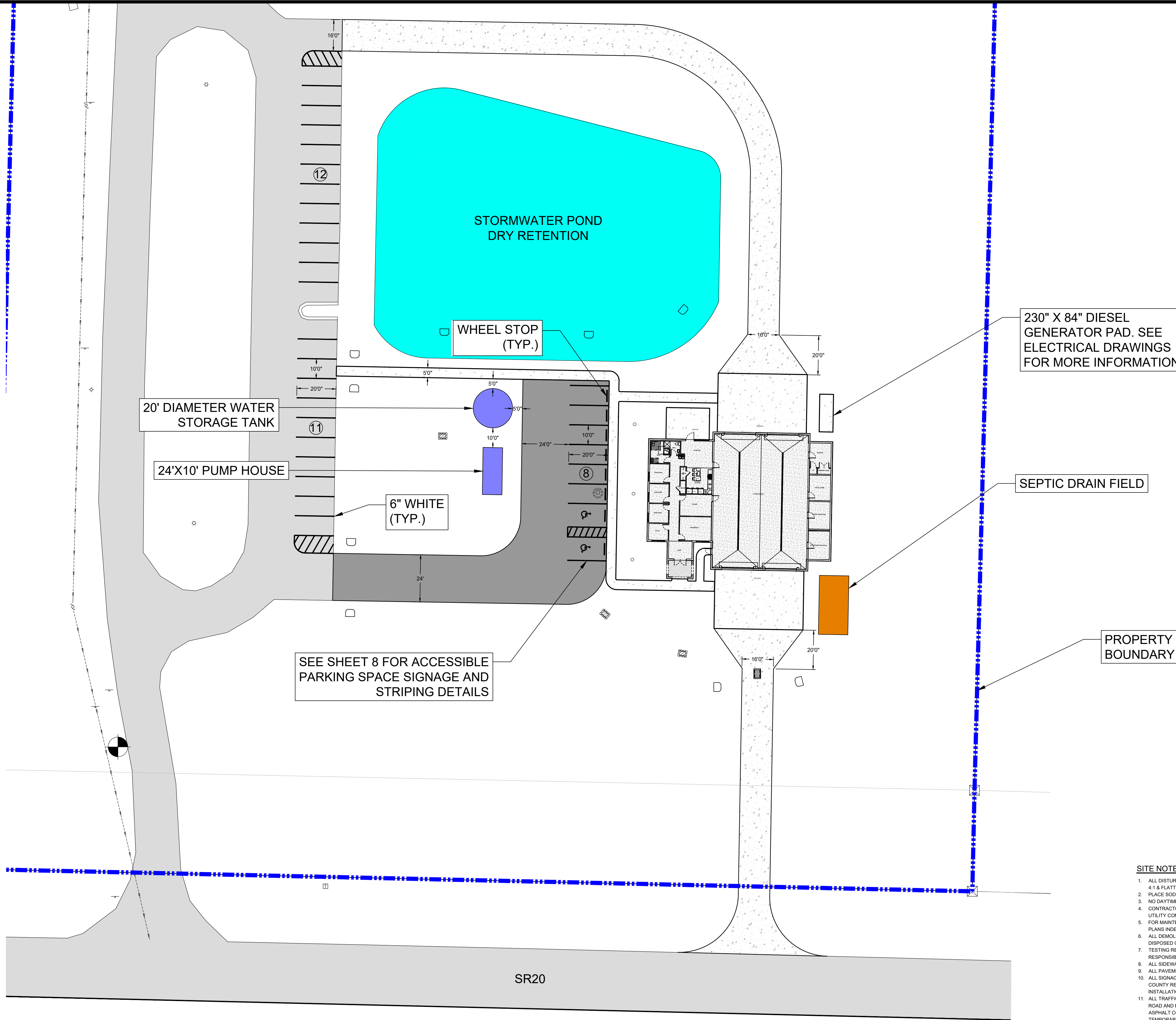
EXISTING CONDITIONS, DEMO, AND EROSION CONTROL PLAN
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
 Christopher B. Forehand, P.E. 58028
 J. Doug Crook, P.E. 66556
 William B. Thompson, P.E. 95046

SHEET NUMBER	1
PROJECT NUMBER	11377

11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION EXISTING CONDITIONS, DEMO, AND EROSION CONTROL PLAN Sheet 1

SITE DATA SCHEDULE		
COUNTY: BAY		
PARCEL ID: 002858-000-000		
SEC/TWP/RNG: 3501N/12W		
FULL AG / ZONING: AG-1		
PROPERTY: 32.76±AC		
DEVELOPMENT AREA: 3.61±AC - 157,204±SF		
FIRM ZONE: ZONE 1		
BULK REGULATIONS		
ITEM	REQUIRED	PROVIDED
BUILDING SETBACKS:		
FRONT	N/A	>15'
SIDE	N/A	>7'
REAR	N/A	>200'
LANDSCAPE BUFFERS:		
BLDG HEIGHT - FEET (MAX.)	50'	30'
DENSITY - DU/AC (MAX.)	1 DU/10 AC	N/A
IMPERVIOUS - ISR (MAX.)	25%	<25%
INTENSITY - FAR (MAX.)	N/A	N/A
OPEN SPACE - OSR (MIN.)	75%	>75%
PARKING TOTAL		
STANDARD PARKING	N/A	29
ADA PARKING	N/A	2
GARAGES	N/A	N/A
LOADING SPACE	N/A	N/A



LEGEND

- PROPOSED CONSTRUCTION
- EXISTING TO REMAIN
- PROPERTY BOUNDARY
- ⊙ PROPOSED MANHOLE (SANITARY OR STORM)
- ⊠ CLEANOUT
- ⊕ PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- ⊖ EXISTING GUY ANCHOR
- ⊗ EXISTING POWER POLE
- ⊘ PROPOSED SIGN
- ⊙ PROPOSED FIRE HYDRANT
- ♿ HANDICAP PARKING
- RW RIGHT OF WAY
- DWS DETECTABLE WARNING SURFACE
- ▨ EXISTING ASPHALT PAVEMENT
- ▩ PROPOSED ASPHALT PAVEMENT
- ▧ PROPOSED CONCRETE PAVEMENT
- ▦ DETECTABLE WARNING SURFACE (DWS)

SITE NOTES:

1. ALL DISTURBED AREAS SHALL BE GRASSED UNLESS OTHERWISE NOTED. HYDROSEED SLOPES 4:1 & FLATTER, SOD SLOPES STEEPER THAN 4:1. ALL SOD TO BE STAGGERED & PINNED.
2. PLACE SOD ALONG EDGES OF NEW DRIVEWAY (30" MIN. WIDTH).
3. NO DAYTIME LANE CLOSURES ALLOWED.
4. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
5. FOR MAINTENANCE OF TRAFFIC CONTROL THROUGH WORK ZONES, REFER TO FDOT STD. PLANS INDEX 102-612 & 102-613 AS APPLICABLE.
6. ALL DEMOLISHED MATERIALS (i.e. SIGNS, CONCRETE, ASPHALT, ETC.) TO BE REMOVED AND DISPOSED OF IN LEGAL MANNER.
7. TESTING REQUIREMENTS SHALL BE IN ACCORDANCE WITH FDOT CRITERIA. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AND SCHEDULE ALL TESTS.
8. ALL SIDEWALK RAMPS SHALL COMPLY WITH FDOT INDEX 522-002.
9. ALL PAVEMENT STRIPING / MARKINGS SHALL COMPLY WITH FDOT INDEX 711-001.
10. ALL SIGNAGE AND STRIPING SHALL COMPLY WITH MUTCD AND COUNTY REQUIREMENTS. COUNTY REQUIREMENTS CAN BE FOUND IN THE TRAFFIC ENGINEERING DIVISION SIGN INSTALLATION GUIDELINES.
11. ALL TRAFFIC STRIPING TO BE THERMOPLASTIC PER FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION LATEST EDITION. (WAIT MINIMUM OF 30 DAYS AFTER ASPHALT CONCRETE PLACEMENT TO PLACE PERMANENT THERMOPLASTIC MARKING. TEMPORARY STRIPING TO BE PAINTED STOP BAR ONLY.)

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
DESIGNED BY: JDC
DRAWN BY: DJJ
REVIEWED BY: JDC
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SITE PLAN
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
 BAY COUNTY, FLORIDA

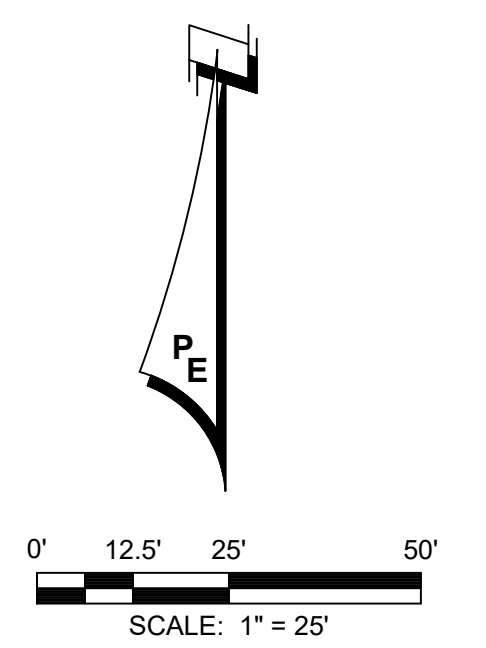
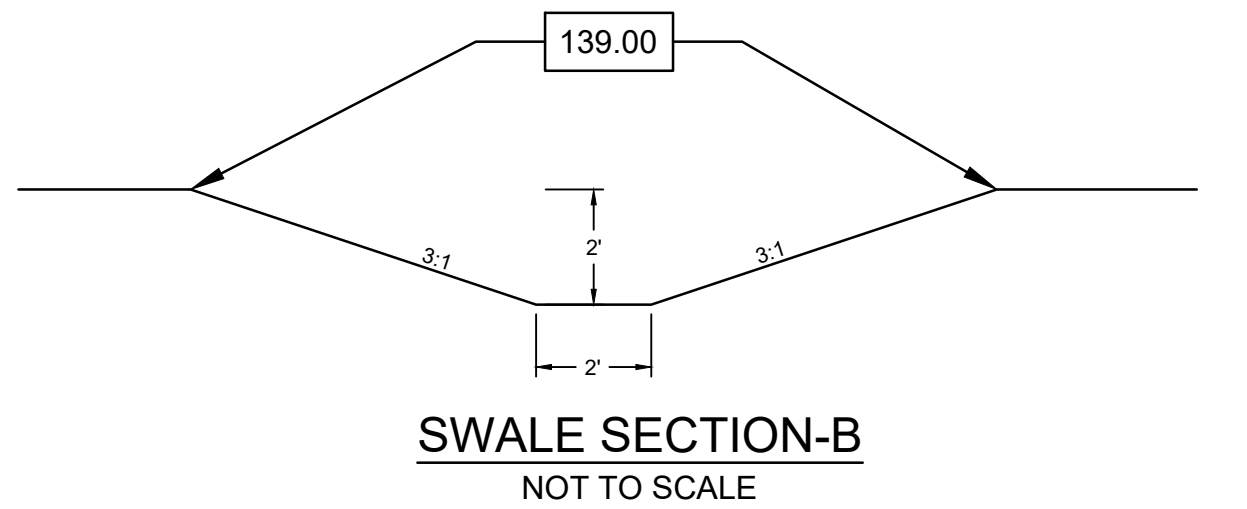
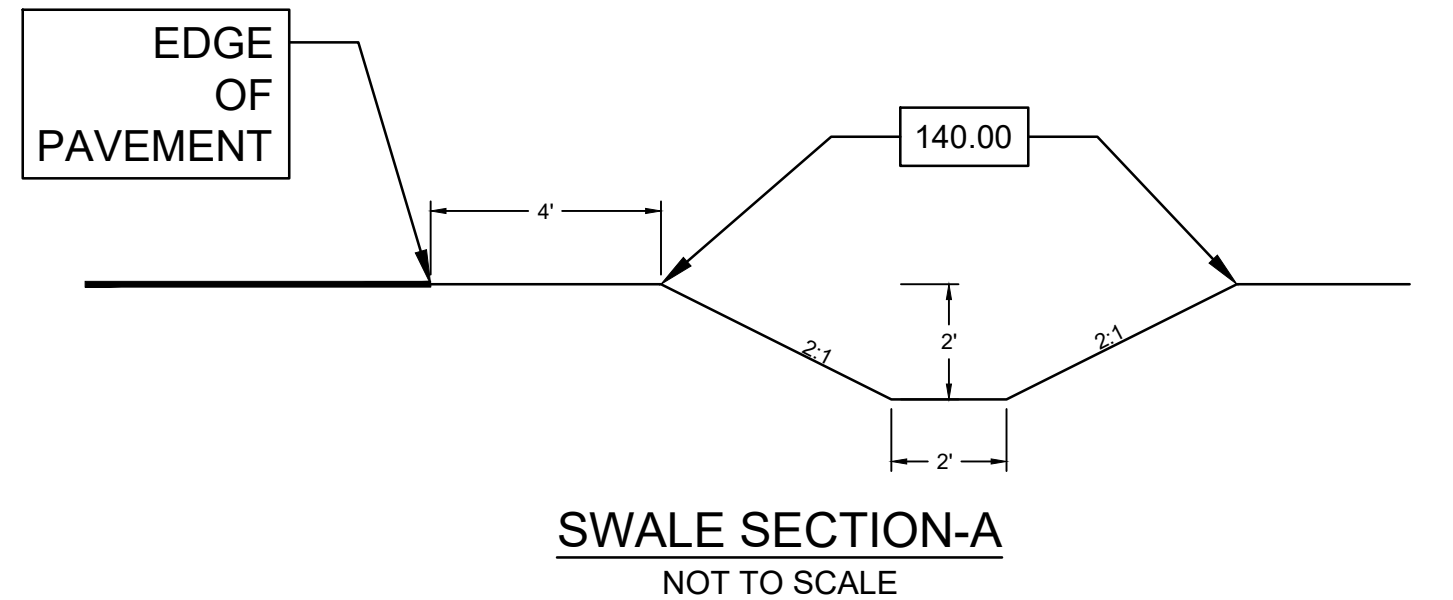
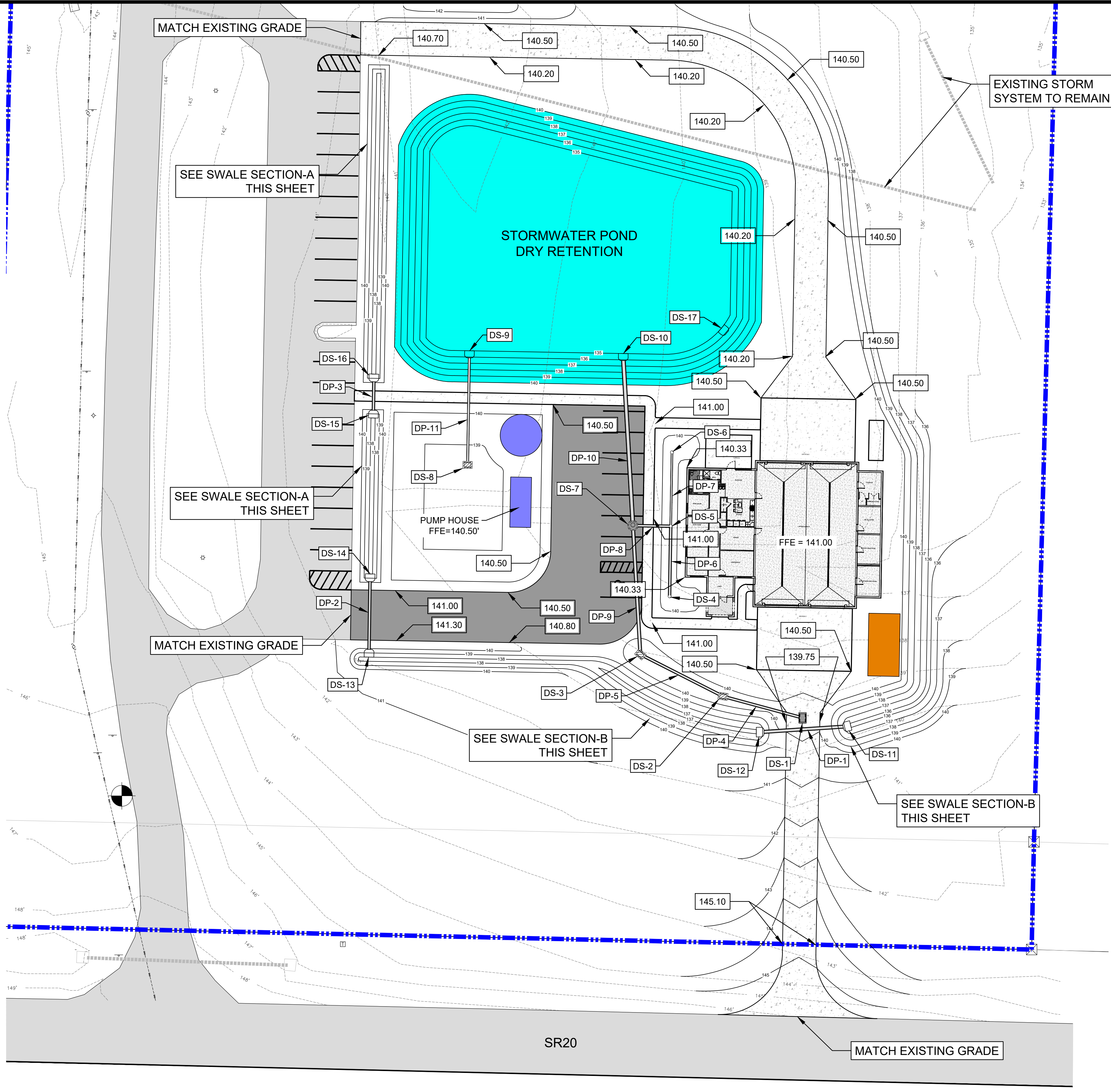
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 William B. Thompson, P.E. 95046

JAMES D. CROOK
 LICENSE NO. 66556
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

SHEET NUMBER	2
PROJECT NUMBER	11377

DRAINAGE STRUCTURE TABLE				
NO.	STRUCTURE TYPE	TOP ELEV.	PIPE INVERTS	
DS-1	FDOT Type F Inlet	139.50	(W) 137.00' (DP-4)	
DS-2	FDOT Type C Inlet	139.50	(E) 136.65' (DP-4) (NW) 136.65' (DP-5)	
DS-3	FDOT Type C Inlet	139.50	(SE) 136.26' (DP-5) (N) 136.26' (DP-9)	
DS-4	18" Round Nyloplast Yard Drain	139.50	(N) 136.75' (DP-6)	
DS-5	18" Round Nyloplast Yard Drain	139.50	(S) 136.40' (DP-6) (N) 136.40' (DP-7) (W) 136.40' (DP-8)	
DS-6	18" Round Nyloplast Yard Drain	139.50	(S) 136.75' (DP-7)	
DS-7	4" Dia. Manhole	140.90	(E) 135.71' (DP-8) (S) 135.71' (DP-9) (N) 135.71' (DP-10)	
DS-8	FDOT Type C Inlet	138.50	(N) 136.00' (DP-11)	
DS-9	MES	136.02	(S) 135.00' (DP-11)	
DS-10	MES	136.17	(S) 135.00' (DP-10)	
DS-11	MES	137.44	(W) 136.00' (DP-1)	
DS-12	MES	137.94	(E) 136.50' (DP-1)	
DS-13	MES	138.94	(N) 137.50' (DP-2)	
DS-14	MES	138.94	(S) 137.50' (DP-2)	
DS-15	MES	138.94	(N) 137.50' (DP-3)	
DS-16	MES	138.94	(S) 137.50' (DP-3)	
DS-17	MES	136.02	(S) 135.00'	

DRAINAGE PIPE TABLE					
NO.	SIZE	DESCRIPTION	LF	SLOPE	INVERTS
DP-1	15"	ADS	41'	1.21%	DS-12 = 136.50' DS-11 = 136.00'
DP-2	12"	ADS	36'	0.00%	DS-13 = 137.50' DS-14 = 137.50'
DP-3	12"	ADS	17'	0.00%	DS-16 = 137.50' DS-15 = 137.50'
DP-4	12"	ADS	39'	0.89%	DS-1 = 137.00' DS-2 = 136.65'
DP-5	12"	ADS	44'	0.88%	DS-2 = 136.65' DS-3 = 136.26'
DP-6	12"	ADS	34'	1.04%	DS-4 = 136.75' DS-5 = 136.40'
DP-7	10"	ADS	35'	0.99%	DS-6 = 136.75' DS-5 = 136.40'
DP-8	12"	ADS	18'	3.81%	DS-5 = 136.40' DS-7 = 135.71'
DP-9	15"	ADS	62'	0.89%	DS-3 = 136.26' DS-7 = 135.71'
DP-10	18"	ADS	80'	0.88%	DS-7 = 135.71' DS-10 = 135.00'
DP-11	12"	ADS	53'	1.80%	DS-8 = 136.00' DS-9 = 135.00'



- LEGEND**
- PROPERTY BOUNDARY
 - PROPOSED FINISH GRADE
 - +12.50 EXISTING SPOT ELEVATION
 - 24" PROPOSED GRADE CONTOUR
 - 24" EXISTING GRADE CONTOUR
 - STORMWATER FLOW ARROW
 - GRADE BREAK
 - PROPOSED MANHOLE (SANITARY OR STORM)
 - PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
 - PROPOSED STORM PIPE
 - DS-1 STORM DRAIN STRUCTURE (i.e. #1)
 - DP-1 STORM DRAIN PIPE (i.e. #1)
 - CMP CORRUGATED METAL PIPE
 - RCP REINFORCED CONCRETE PIPE

- DRAINAGE STRUCTURE NOTES:**
1. 'C' INLETS PER FDOT STD. PLANS INDEX 425-052
 2. 'F' INLETS PER FDOT STD. PLANS INDEX 425-053
 3. MITERED END SECTIONS PER FDOT STD. PLANS INDEX 430-021
 4. ALL STORM STRUCTURES TO HAVE 1/8" SUMPS.

- GRADING NOTES:**
1. ABOVE & BELOW GROUND STRUCTURES ARE SHOWN ON THIS SHEET.
 2. ALL DISTURBED AREA SHALL BE GRASSED, HYDROSEED @ 4:1 & FLATTER, SOD @ STEEPER THAN 4:1. ALL SOD TO BE STAGGERED & PINNED.
 3. CONTRACTOR TO FIELD VERIFY ALL UTILITIES ABOVE OR BELOW GROUND AND NOTIFY ALL UTILITY COMPANIES 2 DAYS PRIOR TO CONSTRUCTION.
 4. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.

REV	DATE	BY	REVISIONS

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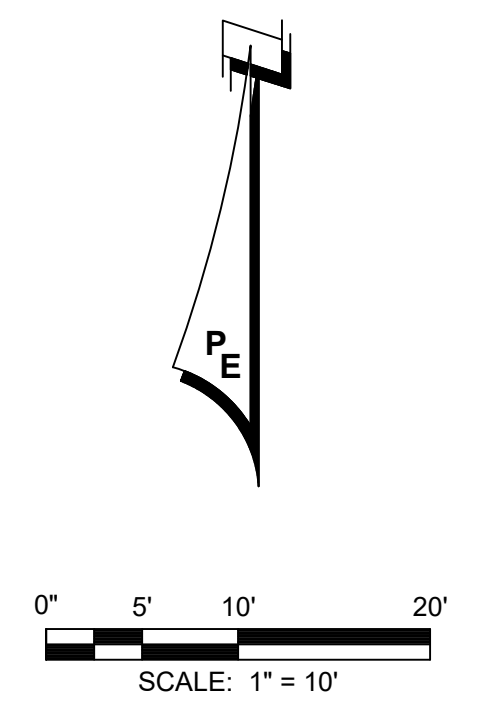
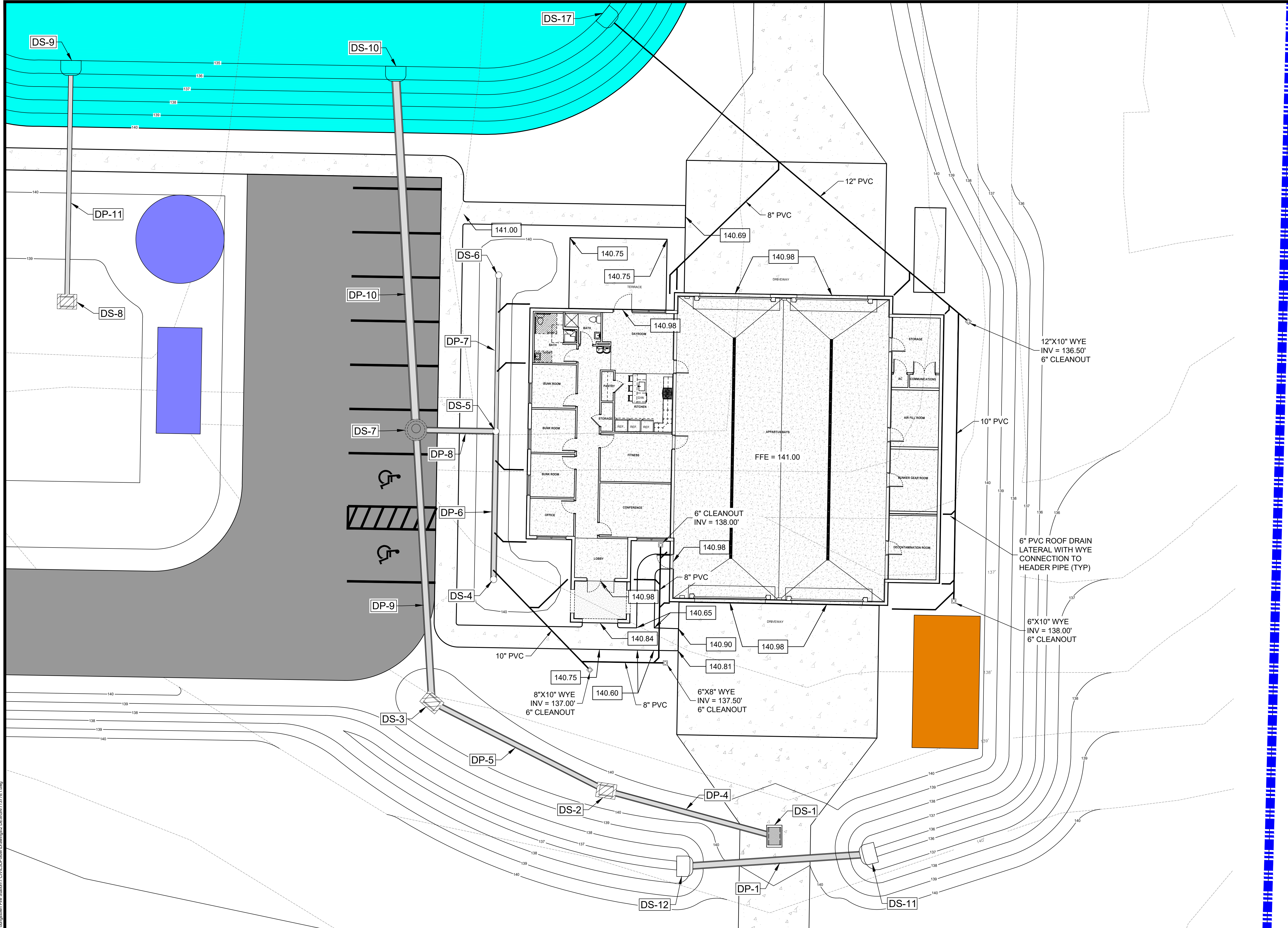
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GRADING AND DRAINAGE PLAN
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
 BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
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JAMES D. CROOK
 LICENSE
 NO. 66556
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

SHEET NUMBER	3
PROJECT NUMBER	11377



- LEGEND**
- PROPERTY BOUNDARY
 - PROPOSED FINISH GRADE
 - EXISTING SPOT ELEVATION
 - PROPOSED GRADE CONTOUR
 - EXISTING GRADE CONTOUR
 - STORMWATER FLOW ARROW
 - GRADE BREAK
 - PROPOSED MANHOLE (SANITARY OR STORM)
 - PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
 - PROPOSED STORM PIPE
 - DS-1 STORM DRAIN STRUCTURE I.e. #1
 - DP-1 STORM DRAIN PIPE I.e. #1
 - CMP CORRUGATED METAL PIPE
 - RCP REINFORCED CONCRETE PIPE

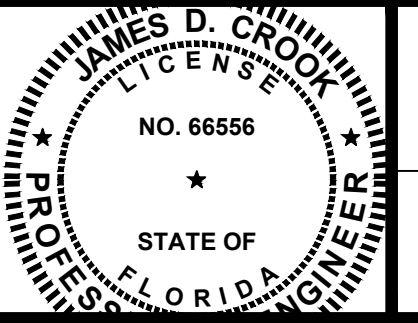
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GRADING AND DRAINAGE DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
 BAY COUNTY, FLORIDA

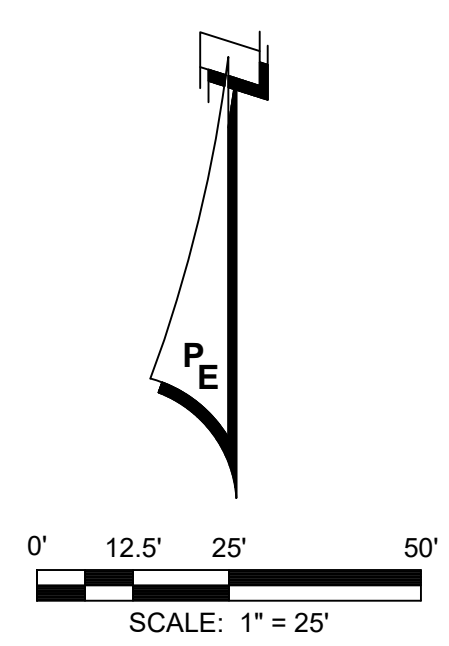
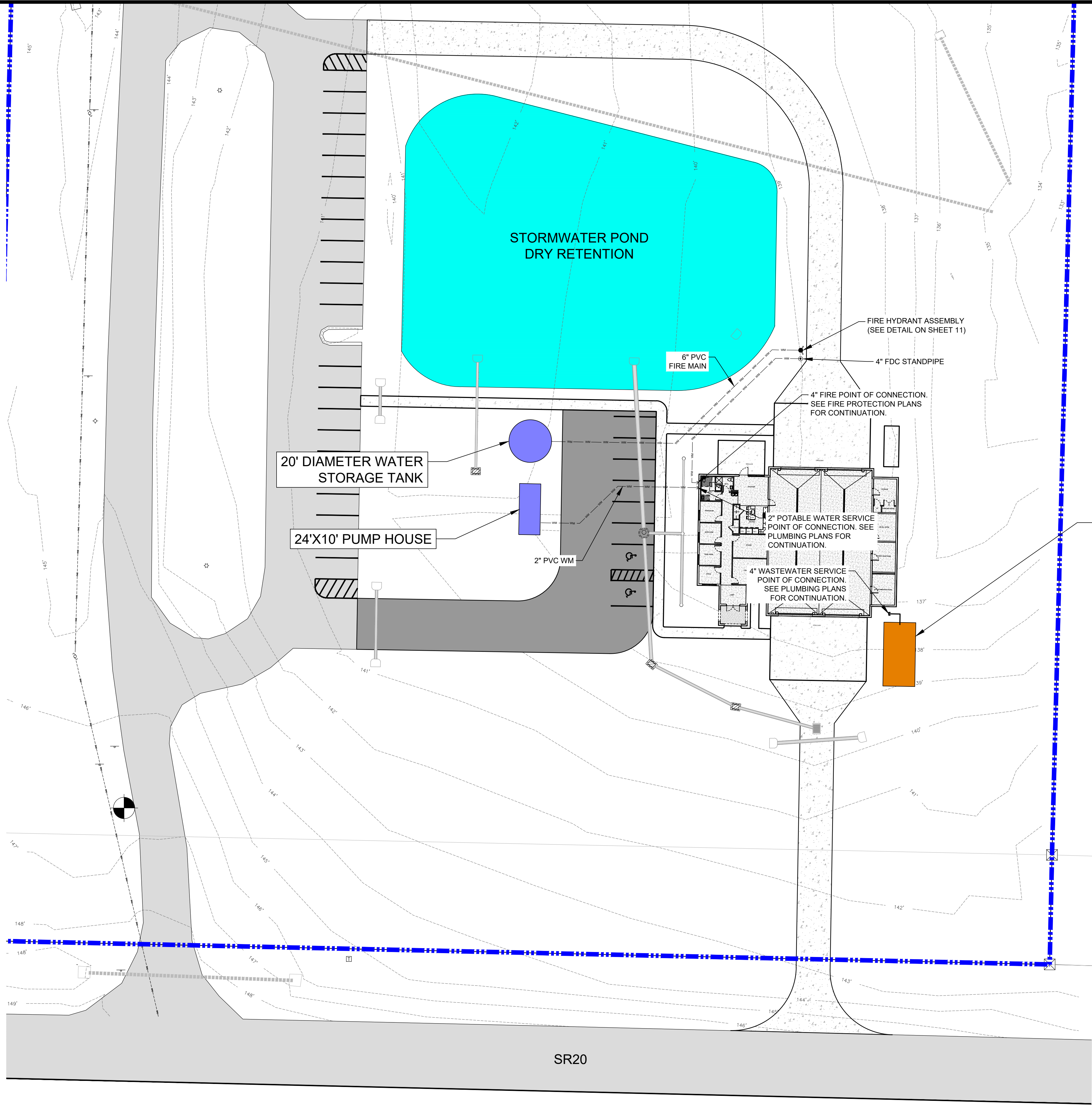
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SHEET NUMBER	4
PROJECT NUMBER	11377

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11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION GRADING AND DRAINAGE DETAILS Sheet 4



SEPTIC DRAIN FIELD. SIZE TO BE DETERMINED BY SEPTIC SYSTEM CONTRACTOR.

LEGEND

- PROPERTY BOUNDARY
- WM - PROPOSED WATER MAIN (SIZE AS NOTED)
- SS - PROPOSED SANITARY SEWER (SIZE AS NOTED)
- FIRE - PROPOSED FIRE MAIN (SIZE AS NOTED)
- PROPOSED VALVE
- PROPOSED FIRE HYDRANT
- PROPOSED MANHOLE (SANITARY OR STORM)
- CLEANOUT
- PROPOSED DRAINAGE INLETS (TYPE & SIZE NOTED ON PLANS)
- PROPOSED STORM PIPE
- SS-1 SANITARY SEWER STRUCTURE I.e. #1
- SP-1 SANITARY SEWER PIPE I.e. #1

- NOTES**
1. ALL EXISTING UTILITY LOCATIONS AND ELEVATIONS SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION.
 2. CONTRACTOR TO NOTIFY ENGINEER IMMEDIATELY UPON IDENTIFICATION OF CONFLICTS.
 3. WATER WELL AND ASSOCIATED EQUIPMENT SHALL BE BY THE WELL CONTRACTOR. WELL SHALL HAVE A MINIMUM CAPACITY OF 175 GPM.
 4. SEPTIC TANK, DRAIN FIELD, AND ASSOCIATED EQUIPMENT SHALL BE BY THE SEPTIC SYSTEM CONTRACTOR.
 5. SEE FIRE PROTECTION PLANS FOR INFORMATION ON THE FIRE SYSTEM EQUIPMENT AND PIPING (NOT SHOWN).

REV	DATE	BY	REVISIONS

SCALE: AS NOTED
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DRAWN BY: DJJ
REVIEWED BY: JDC
ISSUE DATE: SEPTEMBER 17, 2024
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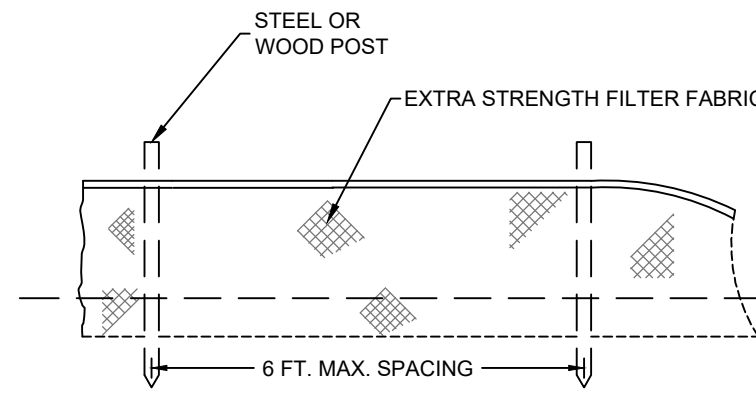
UTILITY PLAN
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
 BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
 Christopher B. Forehand, P.E. 58028
 J. Doug Crook, P.E. 65556
 William B. Thompson, P.E. 95046

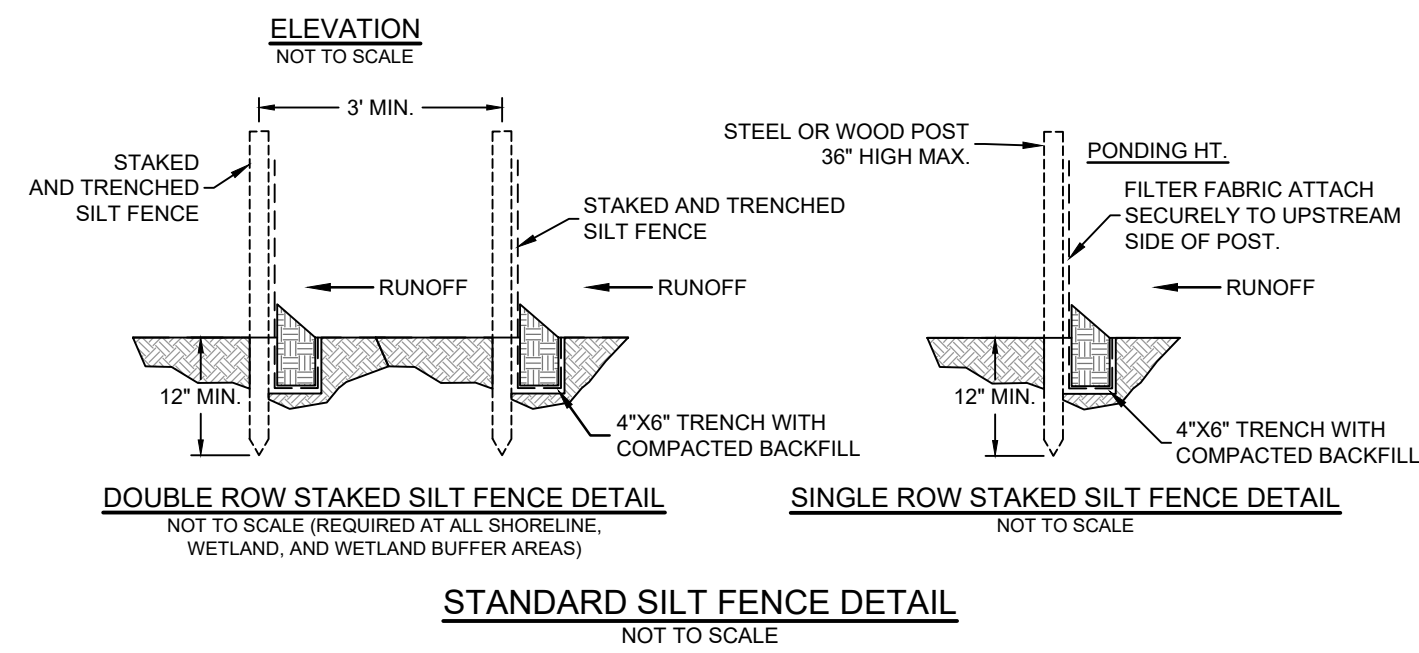
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PROJECT NUMBER	11377

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11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION UTILITY PLAN Sheet 5



- NOTE:**
- INSPECT AND REPAIR FENCE 24 HRS AFTER EACH STORM EVENT. REMOVE SEDIMENTS NO LATER THAN WHEN DEPOSITS REACH APPROXIMATELY ONE THIRD THE HEIGHT OF THE BARRIER.
 - REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.
 - SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



ENVIRONMENTAL SEQUENCE

THE CONTRACTOR SHALL AT A MINIMUM IMPLEMENT THE CONTRACTOR'S REQUIREMENTS OUTLINED BELOW AND THOSE MEASURES SHOWN ON THE EROSION CONTROL PLAN. IN ADDITION THE CONTRACTOR SHALL UNDERTAKE ADDITIONAL MEASURES REQUIRED TO BE IN COMPLIANCE WITH APPLICABLE PERMIT CONDITIONS AND STATE WATER QUALITY STANDARDS, DEPENDING ON THE NATURE OF MATERIALS AND METHODS OF CONSTRUCTION THE CONTRACTOR MAY BE REQUIRED TO ADD FLOCCULANTS TO THE RETENTION SYSTEM PRIOR TO PLACING THE SYSTEM INTO OPERATION.

SEQUENCE OF MAJOR ACTIVITIES:

- THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:
- | | |
|---|--|
| 1. INSTALL STABILIZED CONSTRUCTION ENTRANCE. | 8. STABILIZE DENUDED AREA AND STOCKPILES AS SOON AS PRACTICABLE. |
| 2. INSTALL SILT FENCES AND HAY BALES, AS REQUIRED. | 9. INSTALL UTILITIES, STORM SEWER, CURBS AND GUTTER. |
| 3. CONSTRUCT SEDIMENTATION BASIN. | 10. APPLY BASE TO PROJECT. |
| 4. CLEAR AND GRUB FOR DIVERSION SWALES/DIKES AND SEDIMENT BASIN AT PERMANENT POND LOCATION. | 11. COMPLETE GRADING AND INSTALL PERMANENT SEEDING/SOD AND PLANTING. |
| 5. CONTINUE CLEARING AND GRUBBING. | 12. COMPLETE FINAL PAVING. |
| 6. STOCKPILE TOP SOIL IF REQUIRED. | 13. REMOVE ACCUMULATED SEDIMENT FROM BASINS. |
| 7. PERFORM PRELIMINARY GRADING ONSITE, AS REQUIRED. | 14. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE ANY TEMPORARY DIVERSION SWALES/DIKES AND RESEED/ SOD, AS REQUIRED. |

TIMING OF CONTROLS/MEASURES

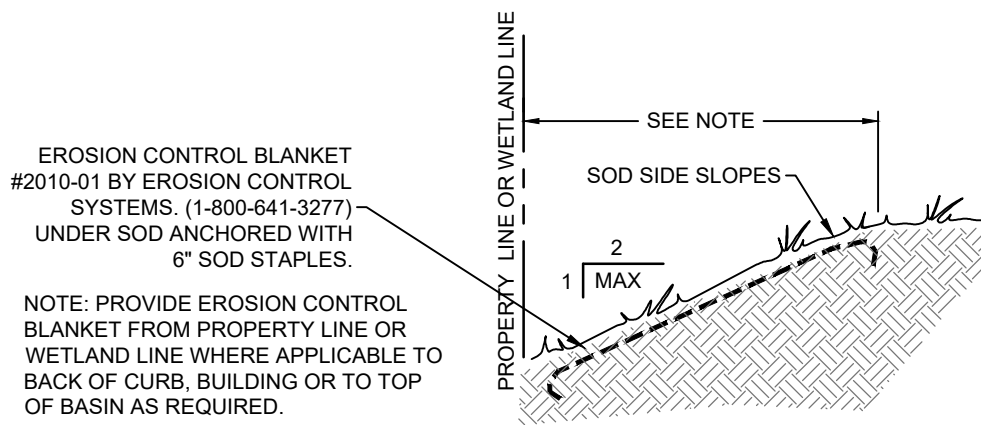
AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE SILT FENCES AND HAY BALES, STABILIZED CONSTRUCTION ENTRANCE AND SEDIMENT BASIN WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICAL IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED PERMANENTLY IN ACCORDANCE WITH THE PLANS. AFTER THE ENTIRE SITE IS STABILIZED, THE ACCUMULATED SEDIMENT WILL BE REMOVED FROM THE SEDIMENT TRAPS AND THE EARTH Dikes/SWALES WILL BE REGRADED/REMOVED AND STABILIZED IN ACCORDANCE WITH THE EROSION AND TURBIDITY CONTROL PLAN.

EROSION CONTROL NOTES:

- EROSION CONTROL MEASURES WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION PHASE OF THIS PROJECT TO RESTRICT ANY TURBID RUNOFF FROM LEAVING THE CONSTRUCTION SITE.
- CONTROL OF SEDIMENT-LADEN RUNOFF SHALL BE PROVIDED WITH HAY BALES AND/OR GEOTECH STYLE FABRICS. ALL CONTROL MEASURES SHALL BE PROPERLY LOCATED AND CONSTRUCTED TO PREVENT SEDIMENT TRANSPORT. THE MEANS FOR RETAINING THE SEDIMENTS WILL BE MAINTAINED BY THE CONTRACTOR UNTIL PERMANENT IMPROVEMENTS ARE COMPLETE.
- THE CONTRACTOR IS RESPONSIBLE FOR TREATING ALL ONSITE STORMWATER DRAINAGE AS REQUIRED TO MEET THE CRITERIA OF 62-302 FLORIDA ADMINISTRATIVE CODE, F.A.C. PRIOR TO DISCHARGE.
- ALL CATCH BASINS, INLETS AND ACCESSES TO UNDERGROUND STORMWATER SYSTEMS SHALL BE PROTECTED IN ACCORDANCE WITH THE ATTACHED DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE TERMS AND CONDITIONS OF ANY STORMWATER PERMITS THAT MAY APPLY (FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, FLORIDA DEPARTMENT OF TRANSPORTATION, BAY COUNTY, WATER MANAGEMENT DISTRICT, ETC.).

EROSION CONTROL NOTES:

- ALL INLETS SHALL HAVE HAY BALES OR SILT FENCE AROUND THEIR PERIMETER. SILT FENCE AND HAY BALES ARE REQUIRED IN ALL AREAS AS DIRECTED BY THE ENGINEER.
- PROTECTED TREES NOTE:**
NO PROTECTED TREES WILL BE IMPACTED UNLESS PERMITTED INDEPENDENTLY.

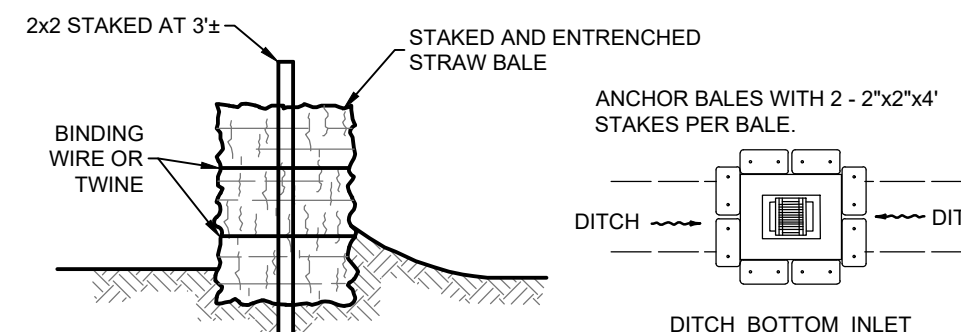


SLOPE STABILIZATION DETAIL
NOT TO SCALE

SLOPE STABILIZATION NOTES

- FLAT TO 1:3 - SEED AND MULCH, HYDRO-SEED OR SOD.
- 1:3 TO 1:2 - SOD LAPPED AND PINNED.
- 1:2 TO 1:1 - EROSION CONTROL BLANKET AND SOD.
- 1:1 OR GREATER - RETAINING WALL OR ARMOR FORM.

NOTE:
AREAS NOT SODDED TO BE STABILIZED WITH HYDROSEEDING.



STRAW BALE BARRIER INSTALLATION DETAIL
NOT TO SCALE

DEWATERING NOTES:

CONTRACTOR SHALL OBTAIN A GENERAL PERMIT FOR DEWATERING FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION NPDES SECTION. (CONTACT: KEVIN HARGETT, FDEP NW DIST. WASTEWATER SECTION. EMAIL: kevin.hargett@dep.state.us PHONE: 850.595.0687)

CONTRACTOR SHALL PROVIDE A DETAILED DEWATERING PLAN WITH METHODS TIME TABLE & DISCHARGE LOCATION TO ENGINEER FOR APPROVAL BEFORE COMMENCEMENT.

"DEWATERING EFFLUENT OF UNCONTAMINATED GROUNDWATER SHALL BE DISCHARGED SO AS TO PREVENT NEGATIVE IMPACTS TO PUBLIC HEALTH OR SAFETY, PROPERTY, OR THE WATER RESOURCE. DEWATERING OPERATIONS SHALL BE DIRECTED TO A SEDIMENT CONTROL DEVICE OR NATURAL ATTENUATION AREA PRIOR TO DISCHARGE TO WETLANDS OR OTHER SURFACE WATERS. A SEDIMENT CONTROL DEVICE MEANS A SETTLING POND, EXCAVATED SEDIMENT TRAP OR BASIN, DEWATERING TRAP OR TEMPORARY SEDIMENT CONTROL MEASURE. A NATURAL ATTENUATION AREA MEANS A NORMALLY DRY, GRASSED MEADOW OR OPEN AREA WITH EXISTING VEGETATION THAT IS NOT SUBJECT TO EROSION. IF A NATURAL ATTENUATION AREA IS USED, A MINIMUM 50 FOOT SETBACK SHALL BE MAINTAINED FROM THE RECEIVING WATERS OR WETLANDS. WHEN WATER IS UNAVOIDABLY DISCHARGED TO WETLANDS OR OTHER SURFACE WATERS, THE WATER DISCHARGED SHALL BE DONE IN A MANNER THAT DOES NOT CAUSE EROSION OR OTHER DAMAGE TO ADJACENT LANDS, AND DOES NOT CAUSE OR CONTRIBUTE TO VIOLATIONS OF WATER QUALITY STANDARDS. SETTLING PONS AND SEDIMENT TRAPS OR BASINS SHALL BE IMPLEMENTED, AT A MINIMUM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 11.0, NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT APPLICANT'S HANDBOOK VOLUME 1" IN ADDITION, DEWATERING ACTIVITIES MAY REQUIRE ADDITIONAL PERMITS FROM THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION (INDUSTRIAL WASTEWATER) AND THE NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT (CONSUMPTIVE USE).

PRIOR TO COMMENCEMENT OF CONSTRUCTION DEWATERING ACTIVITIES ANALYTICAL TEST OF UNTREATED GROUNDWATER FOR THE PARAMETERS LISTED IN TABLE 4-1 MUST BE PERFORMED FOR EACH LOCATION.

IF THE ANALYTICAL TESTS ARE WITHIN THE SCREENING VALUES LISTED IN TABLE 4-1 DEWATERING OF THE SITE MAY BEGIN IMMEDIATELY. A SUMMARY REPORT DESCRIBING THE PROPOSED ACTIVITY AND A COPY OF THE TEST REPORT SHOULD BE SENT TO THE LOCAL FDEP OFFICE WITHIN ONE WEEK AFTER DISCHARGE BEGINS.

ADDITIONAL SAMPLES AND TESTING MUST BE PROVIDED WITHIN THIRTY DAYS AFTER INITIATION OF THE DISCHARGE AND THEN ONCE EVERY SIX MONTHS FOR THE DURATION OF THE PROJECT.

ALL ANALYTICAL TEST DATA, INCLUDING THIRTY DAY AND SIX MONTH TEST RESULTS SHOULD BE KEPT ON-SITE DURING DISCHARGE AND MADE AVAILABLE TO FDEP, IF REQUESTED.

DURING DEWATERING, APPROPRIATE FABRIC SILT SCREEN OR HAY BALES SHALL BE USED TO PREVENT TURBID DISCHARGES. WHEN POSSIBLE, ESTABLISH A DETENTION AREA TO ALLOW SUSPENDED SOLIDS TO SETTLE PRIOR TO DISCHARGE.

THE CONTRACTOR SHALL SELECT, IMPLEMENT AND OPERATE SUCH EROSION AND SEDIMENT CONTROL MEASURES NECESSARY TO PREVENT VIOLATIONS OF WATER QUALITY STANDARDS IN CHAPTER 62-302 F.A.C.

GROUNDWATER WITHDRAWALS FOR DEWATERING SHALL BE BY ONE OF THE FOLLOWING METHODS:

- A CONVENTIONAL WELL POINT SYSTEM CONSISTING OF ONE OR MORE STAGES OF WELL POINTS INSTALLED NEAR THE PROPOSED EXCAVATION IN LINES OR RINGS. THE WELL POINTS SHALL BE INSTALLED IN VARIABLE SPACINGS AND CONNECTED TO A COMMON HEADER PRESSURIZED BY ONE OR MORE PUMPS.
- VACUUM UNDERDRAIN SYSTEM CONSISTING OF AN UNDERDRAIN PIPE WITH FILTER SOCK COVERING PLACED HORIZONTALLY BELOW THE DESIGN EXCAVATION ELEVATION VIA TRENCHING MACHINE. THE UNDERDRAIN PIPE SHALL BE CONNECTED TO A PUMP WITH THE GROUNDWATER CONVEYED THROUGH THE PIPE AND DISCHARGED FROM THE PUMP.
- VACUUM WELL(S) CONSISTING OF ONE OR MORE STAGES INSTALLED NEAR AN EXCAVATION IN LINES OR RINGS. THE VACUUM WELL(S) SHALL BE CONSTRUCTED WITH SIX INCH OR SMALLER PIPE WITH A SLOTTED SCREEN AREA NEAR THE BOTTOM OF THE WELL, AND CONNECTED TO A COMMON HEADER PUMPED BY ONE OR MORE PUMPS.
- DEWATERING STORMWATER POND OR BASIN BY HYDRAULIC PUMP THROUGH THE EXISTING OR NEW DISCHARGE CONTROL STRUCTURE.

TABLE 4-1
GROUNDWATER DISCHARGE - SCREENING VALUES

PARAMETER	SCREENING VALUES FOR DISCHARGE INTO FRESH WATER
TOTAL ORGANIC CARBON (TOC)	10.0 mg/L
PH, STANDARD UNITS	6.0 - 8.5
TOTAL RECOVERABLE MERCURY	0.012 ug/L
TOTAL RECOVERABLE CADMIUM	9.3 ug/L
TOTAL RECOVERABLE COPPER	2.9 ug/L
TOTAL RECOVERABLE LEAD	0.03 ug/L
TOTAL RECOVERABLE ZINC	86.0 ug/L
TOTAL RECOVERABLE CHROMIUM (HEX.)	11.0 ug/L
BENZENE	1.0 ug/L
NAPHTHALENE	100.0 ug/L

mg/L = milligrams per liter
ug/L = micrograms per liter

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EROSION CONTROL NOTES AND DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

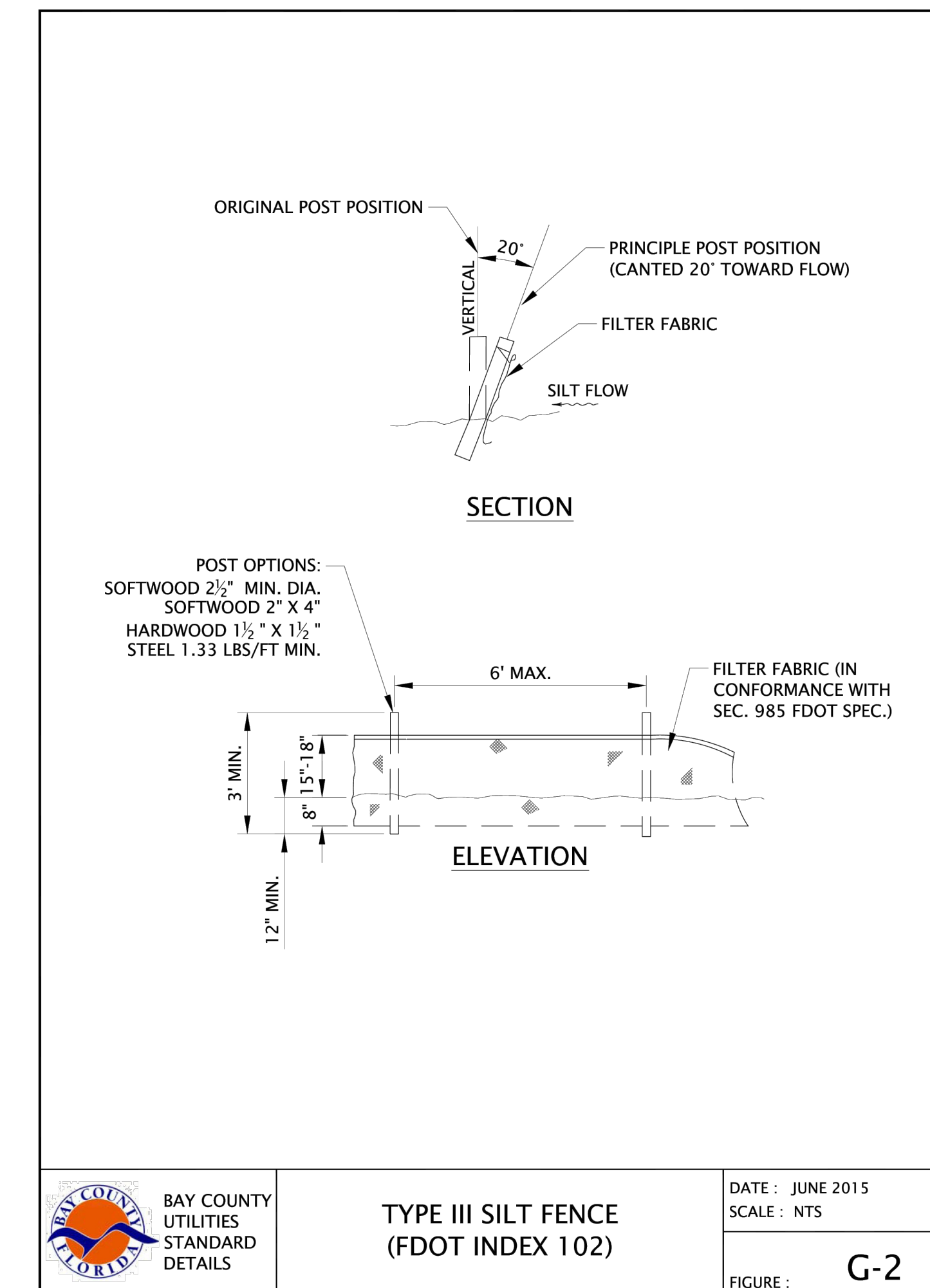
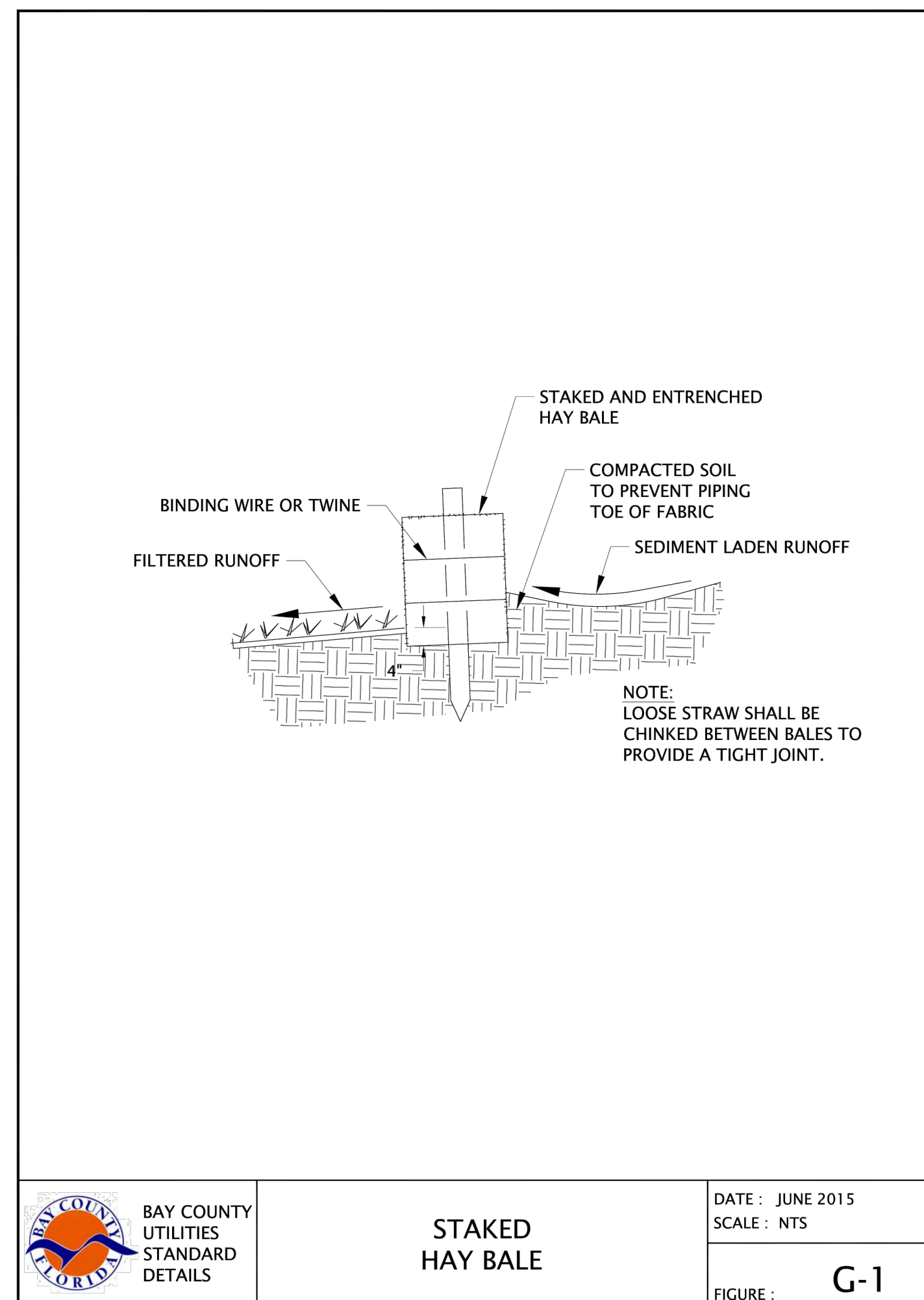
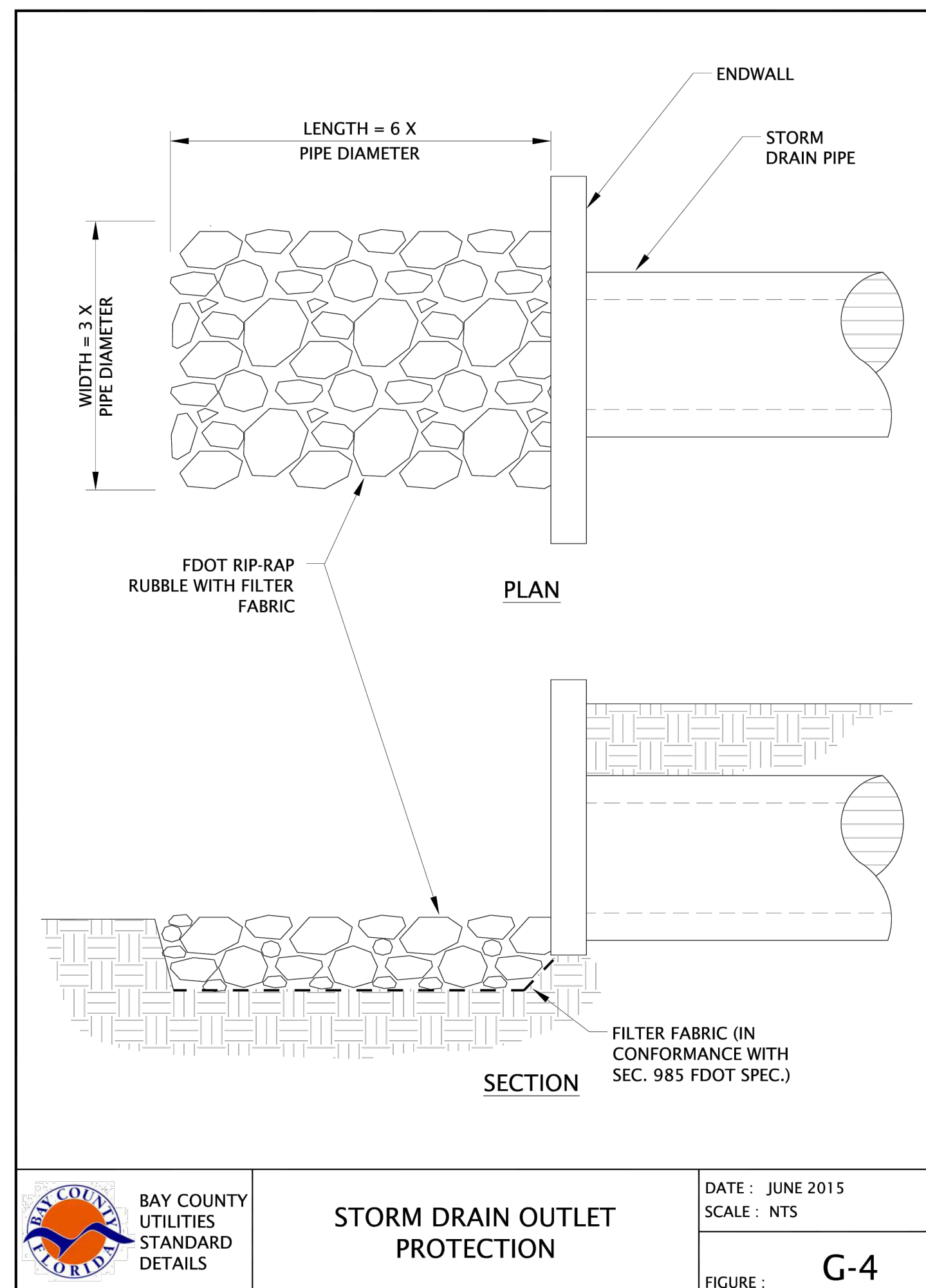
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Christopher B. Forehand, P.E. 58028
J. Doug Crook, P.E. 66556
William B. Thompson, P.E. 95046

PROFESSIONAL ENGINEER
STATE OF FLORIDA
NO. 66556

DPR CERTIFICATION #EB-7806

SHEET NUMBER	6
PROJECT NUMBER	11377

11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION EROSION CONTROL NOTES AND DETAILS Sheet 6



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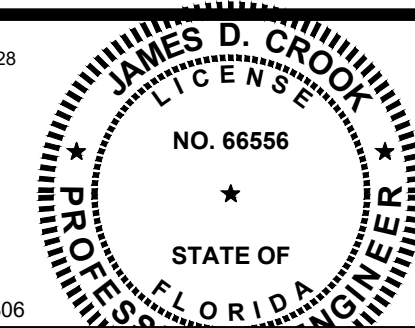
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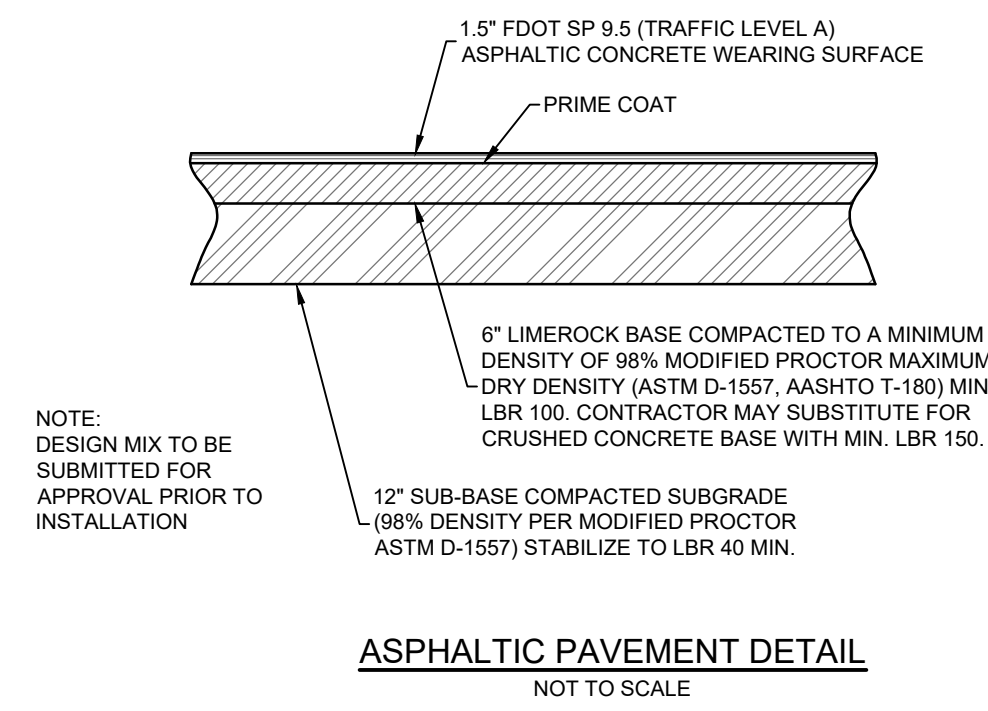
EROSION CONTROL DETAILS
FOUNTAIN COMMUNITY COMPLEX
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BAY COUNTY, FLORIDA

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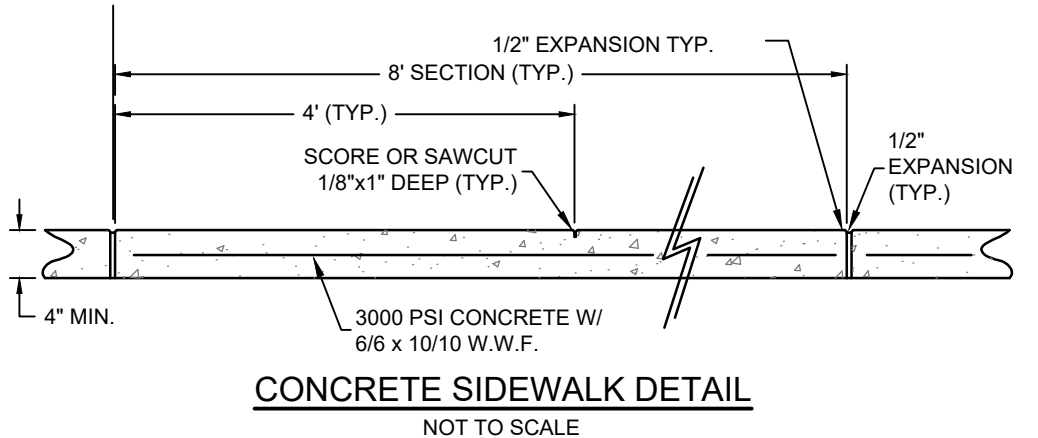
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11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION EROSION CONTROL DETAILS Sheet 7

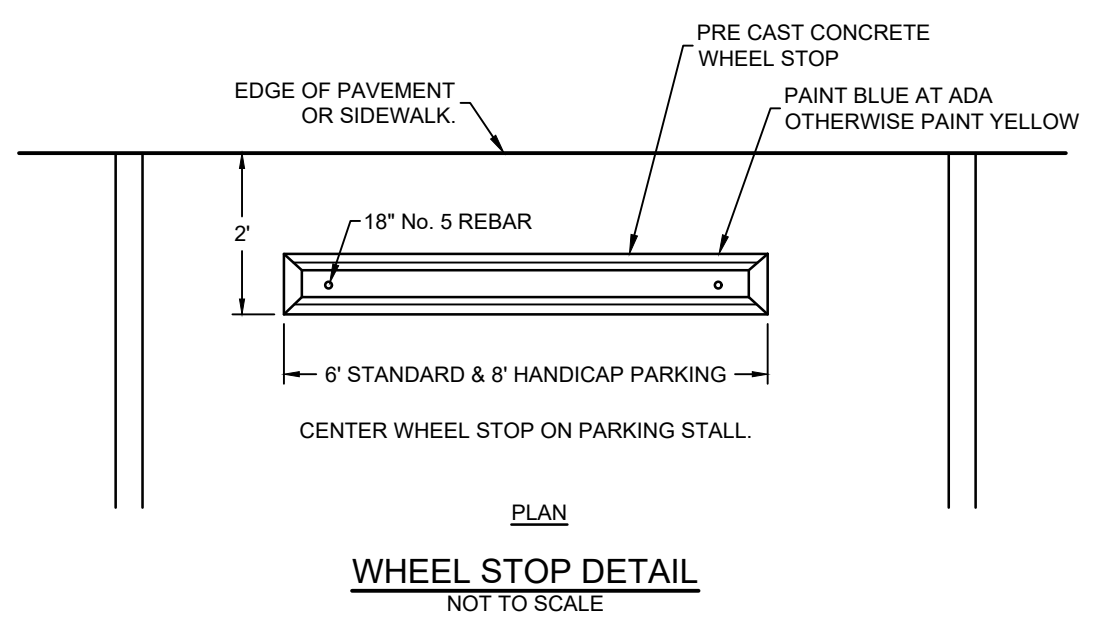


NOTE:
DESIGN MIX TO BE
SUBMITTED FOR
APPROVAL PRIOR TO
INSTALLATION

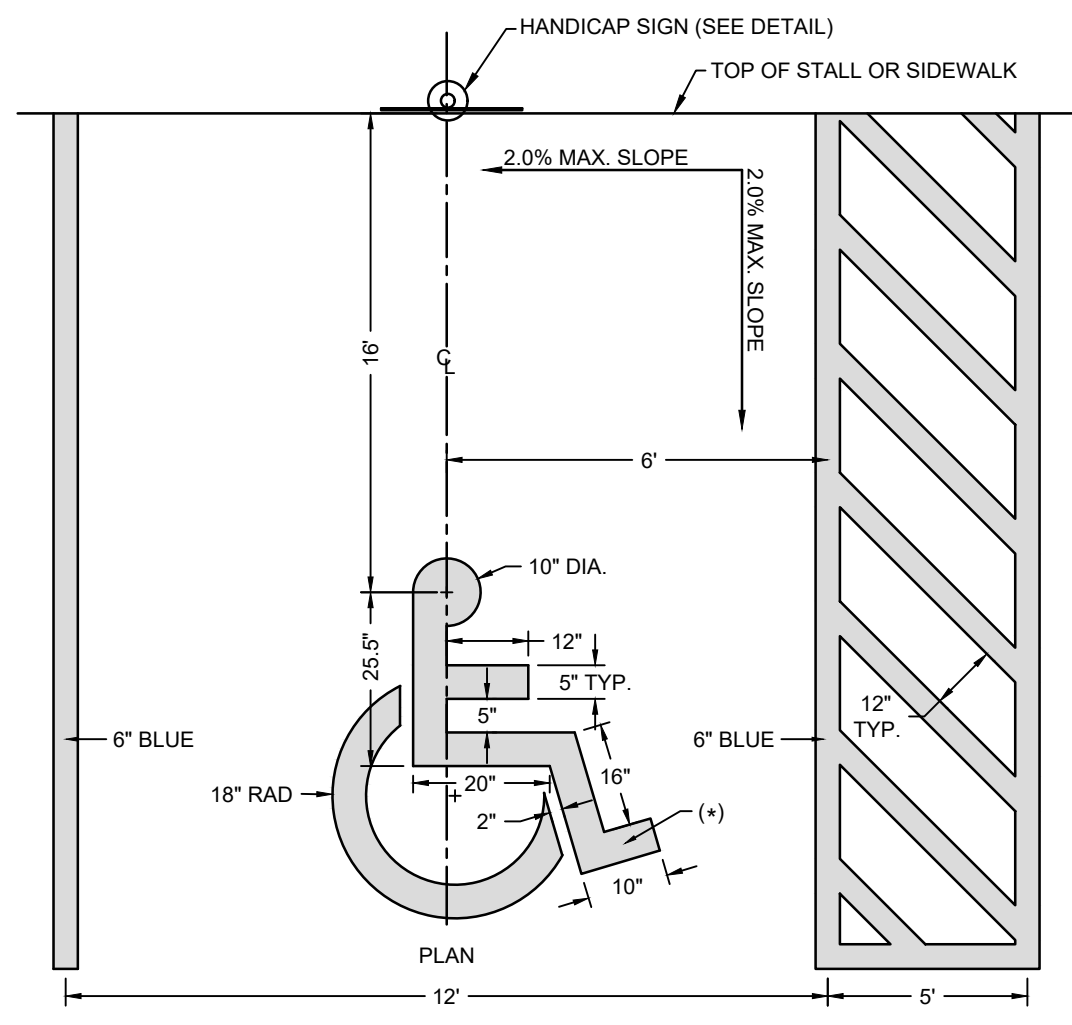
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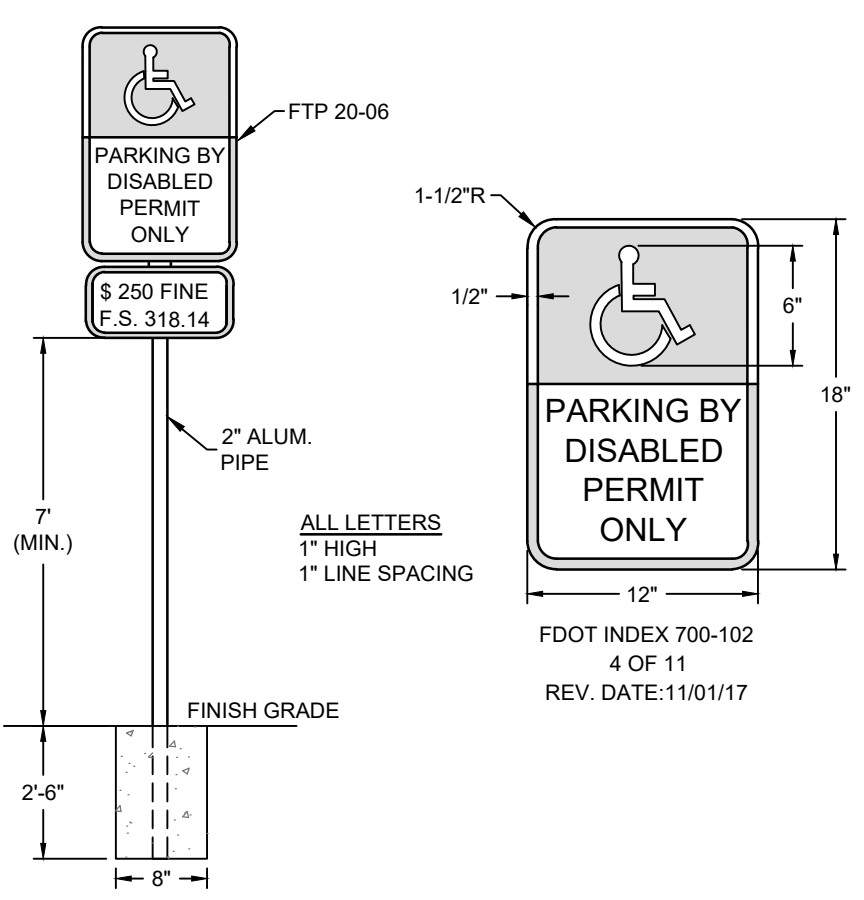
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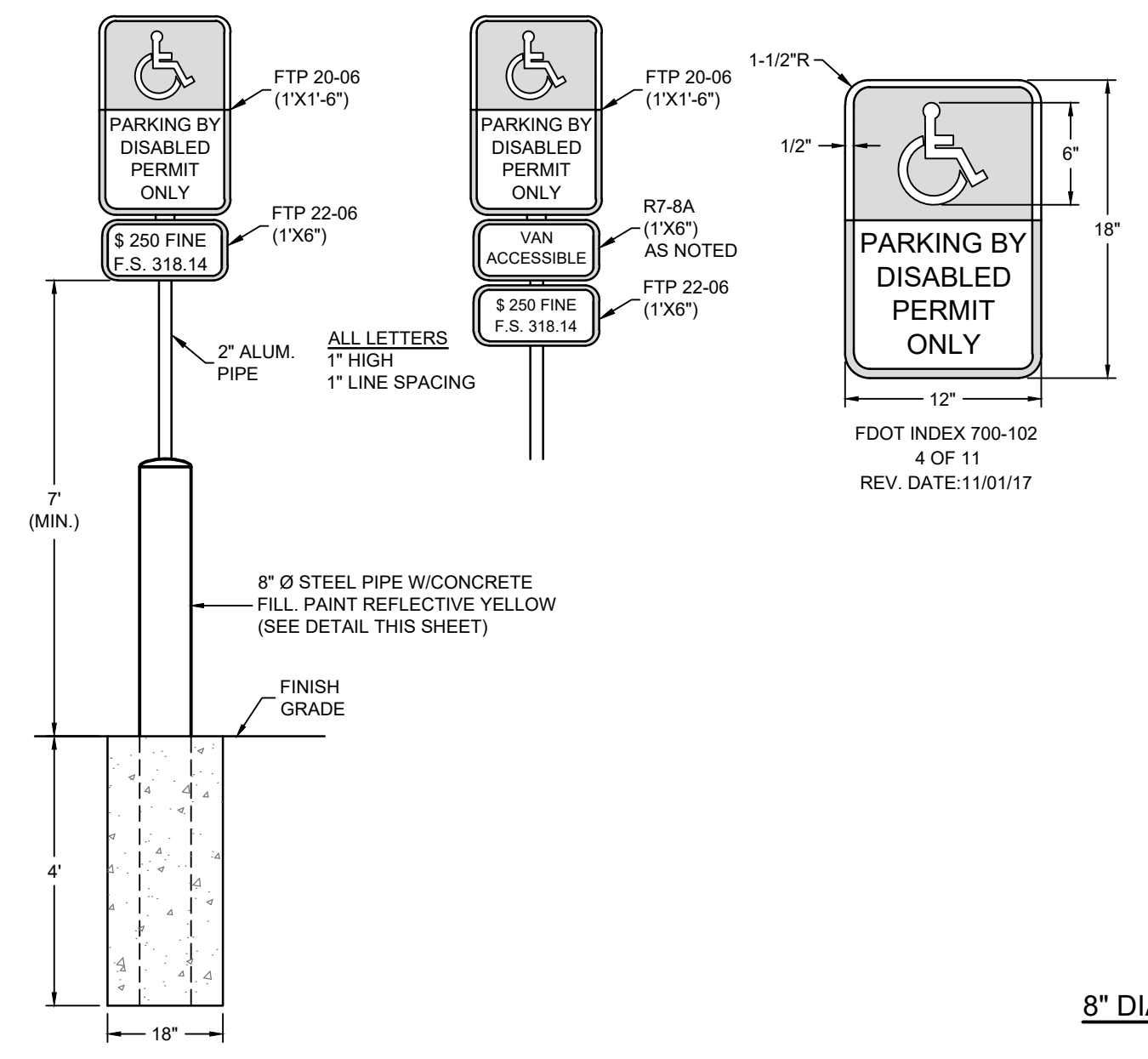
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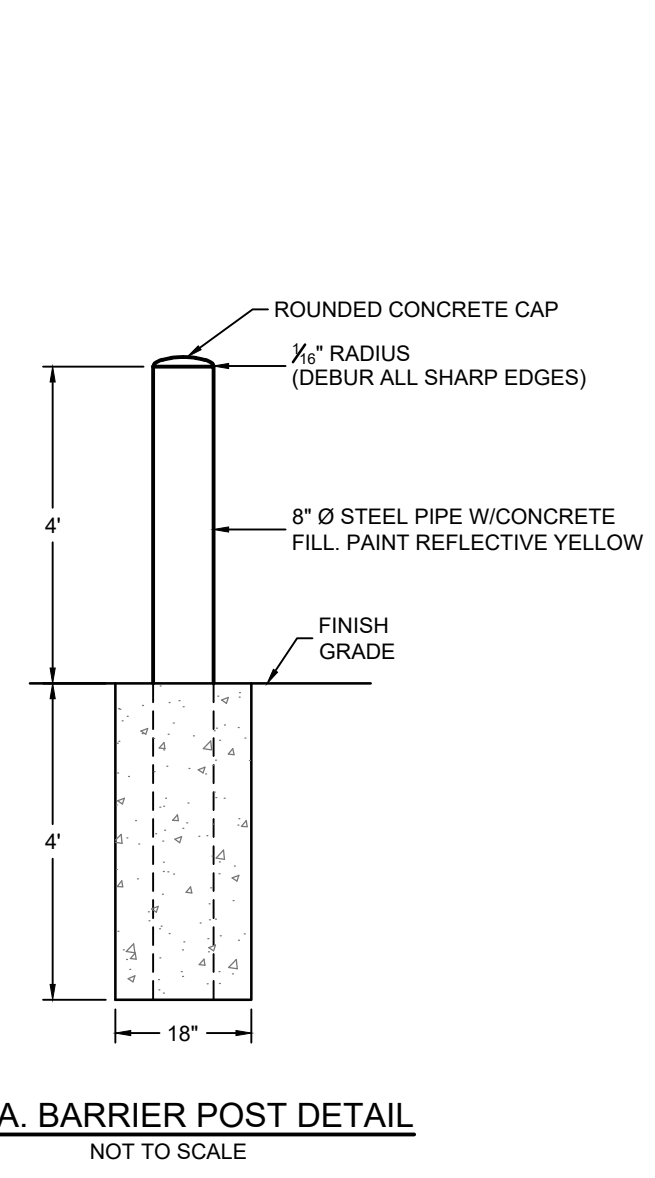
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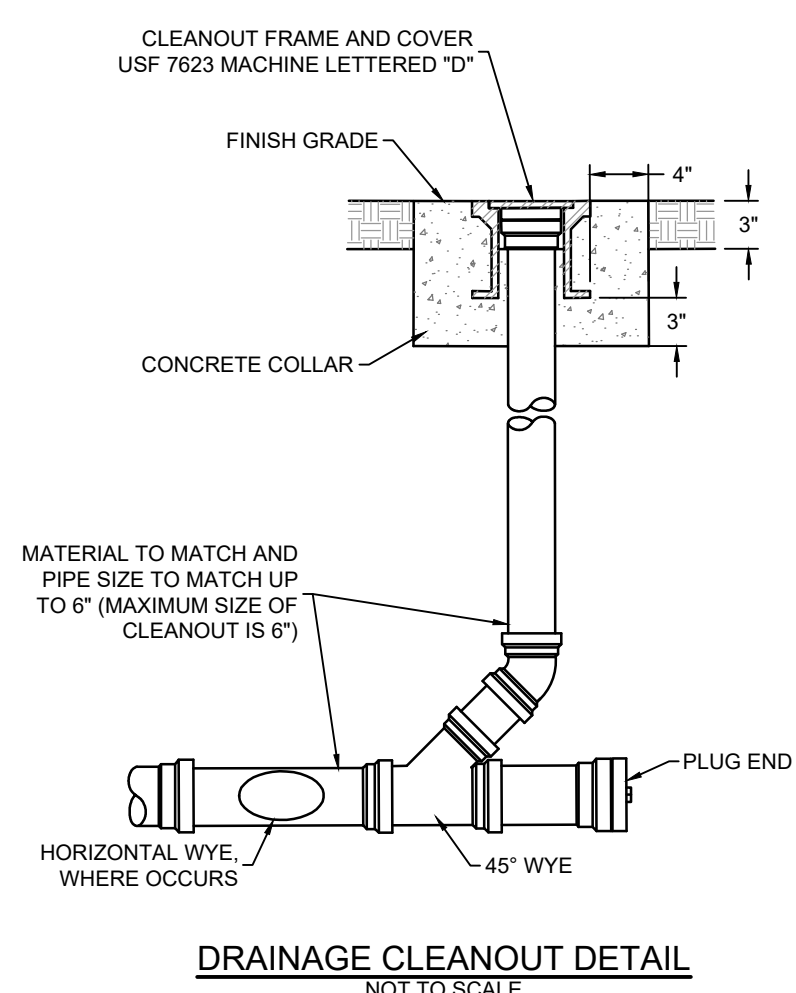
HANDICAP SIGN DETAIL
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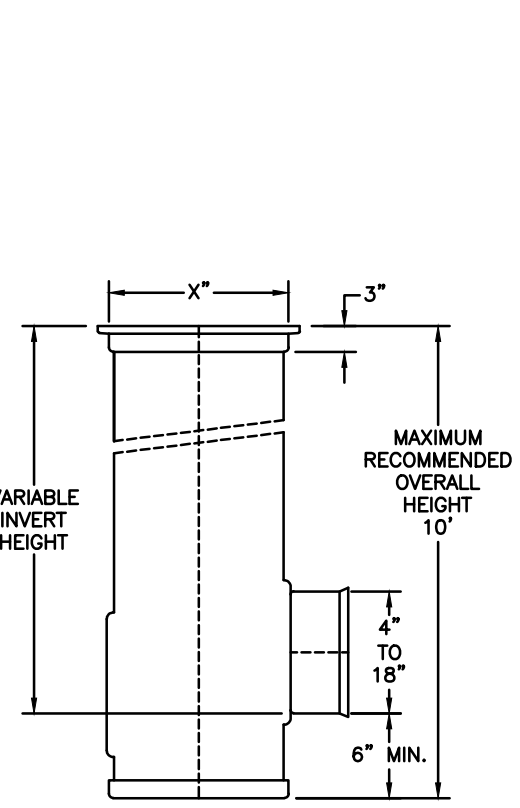
HANDICAP SIGN DETAIL
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8\"/>



DRAINAGE CLEANOUT DETAIL
NOT TO SCALE



NYLOPLAST DRAINAGE BASIN DETAIL
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CONSTRUCTION DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
 Christopher B. Forehand, P.E. 58028
 J. Doug Crook, P.E. 66556
 William B. Thompson, P.E. 95046

JAMES D. CROOK
 LICENSE
 NO. 66556
 STATE OF
 FLORIDA
 PROFESSIONAL ENGINEER

SHEET NUMBER	8
PROJECT NUMBER	11377

GENERAL NOTES:

1. Work this Index with Index 425-001 and Index 425-010.
2. Chamfer all exposed edges and corners 1/2" chamfer or tooled to 1/4" radius.
3. All reinforcing is Grade 60 bars with 2" minimum cover unless otherwise noted. Cut or bend bars for 1 1/2" clearance around pipe opening. Provide one additional #4 bar above and at each side of pipe opening.
4. Use Concrete Apron on inlets without slots and inlets with non-traversable slots only when called for in the Plans.
5. Quantities are for informational and estimating purposes only.

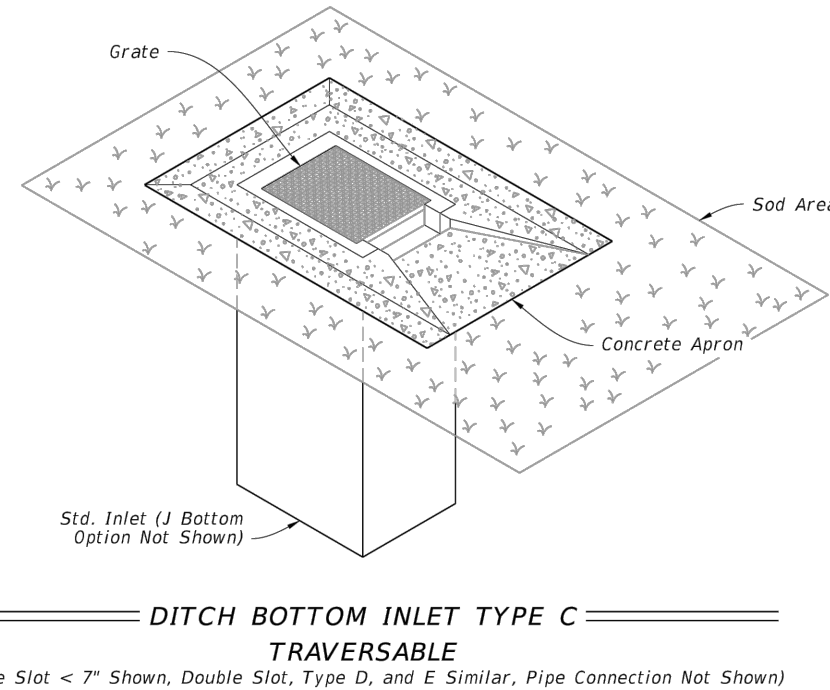
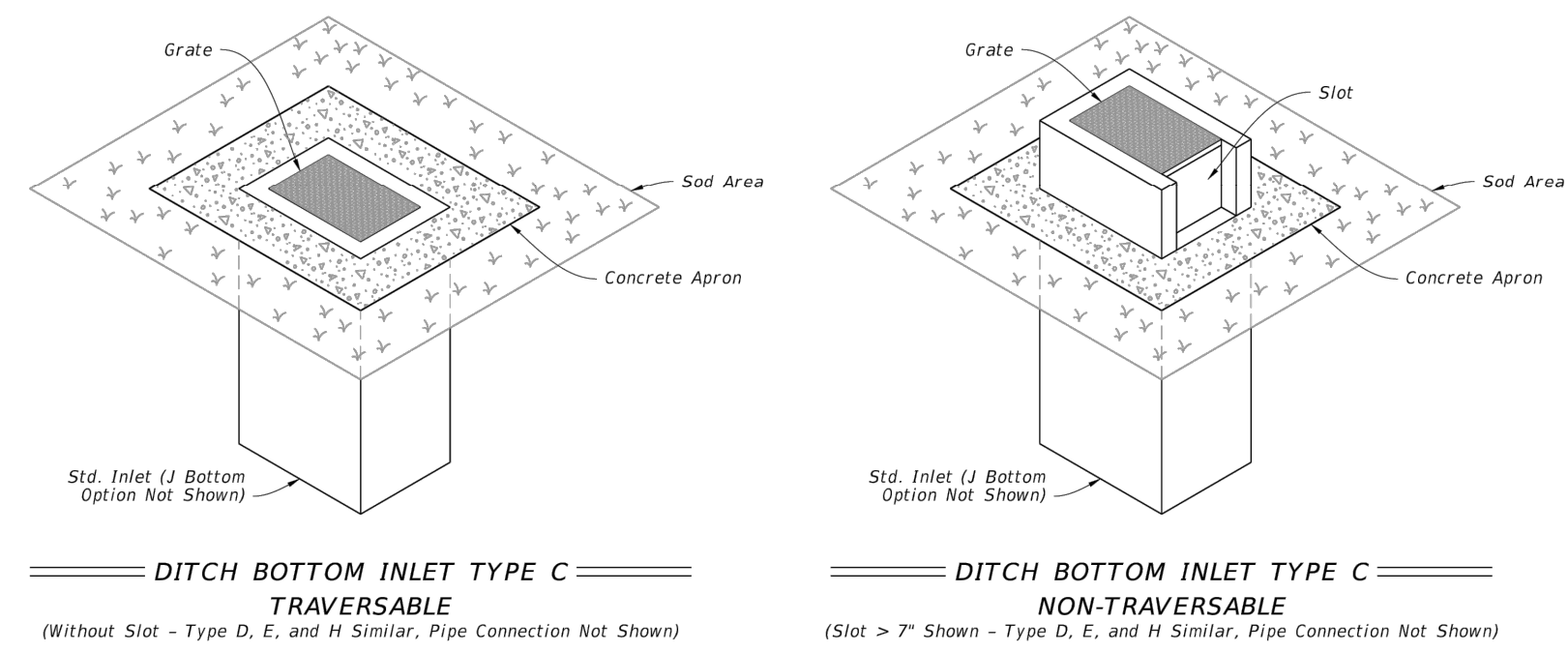
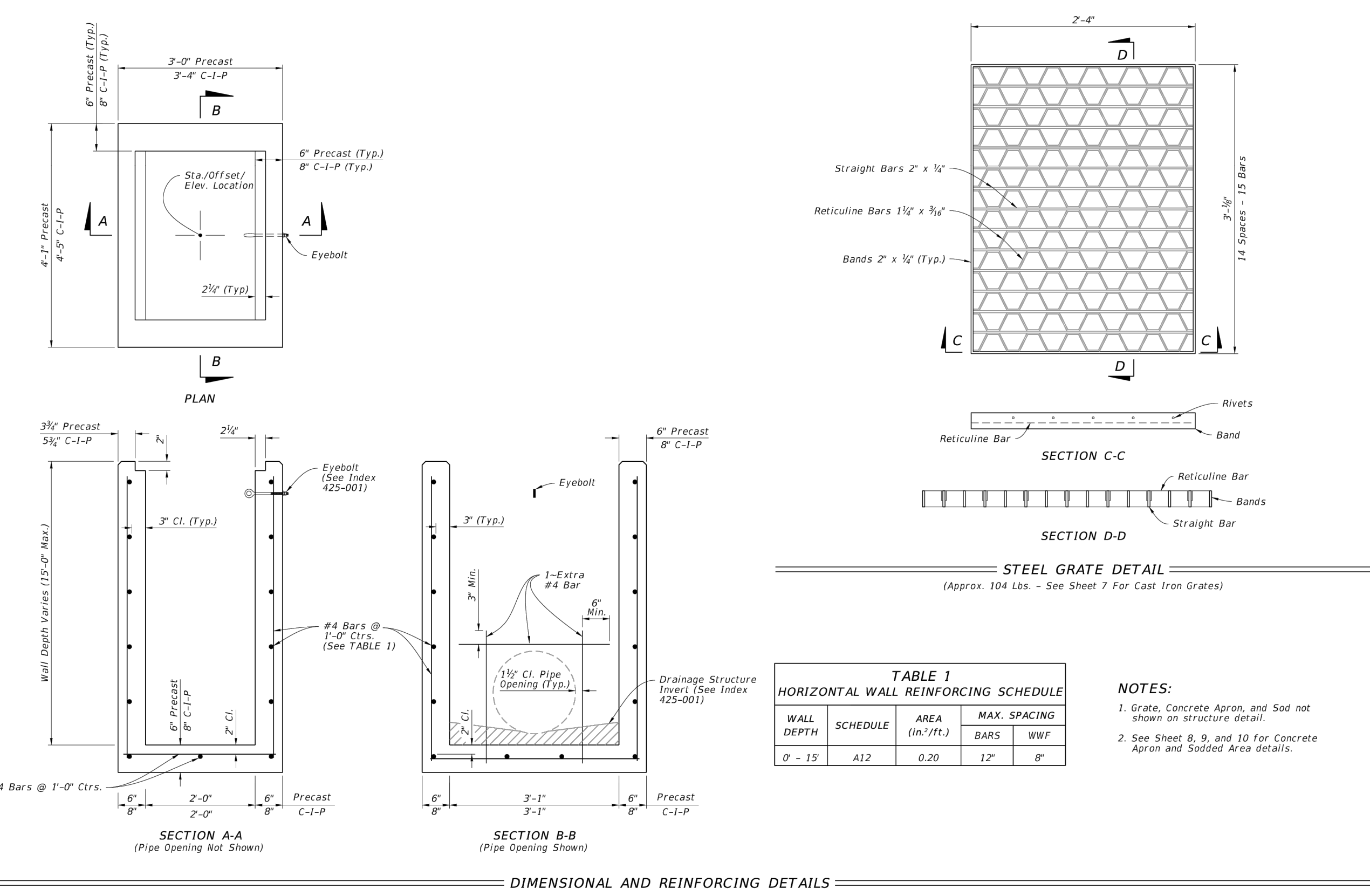


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3	Type D - Dimensional, Reinforcing, and Grate Details
4	Type E - Dimensional, Reinforcing, and Grate Details
5	Type H (2 & 3 Grate) - Dimensional, Reinforcing, and Steel Grate Details
6	Type H (4 Grate) - Dimensional, Reinforcing, and Steel Grate Details
7	Cast Iron Grate Details
8	Non-Traversable Inlet Details
9	Traversable Inlet Without Slot Details
10	Traversable Inlet With Slot Details
11	Case 1 - Add Traversable Slots to Existing Inlets
12	Case 2 - Add Traversable Slots (Partial) to Existing Inlets
13	Case 3 - Add Traversable Slots (Partial) to Existing Inlets and Ditch Block
14	Alternate A Structure Bottom - Top Slab Details

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LAST REVISION 10/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES C, D, E, AND H	INDEX 425-052	SHEET 1 of 14
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**TABLE 1
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0' - 15"	A12	0.20	12"	8"

- NOTES:**
1. Grate, Concrete Apron, and Sod not shown on structure detail.
 2. See Sheet 8, 9, and 10 for Concrete Apron and Sodded Area details.

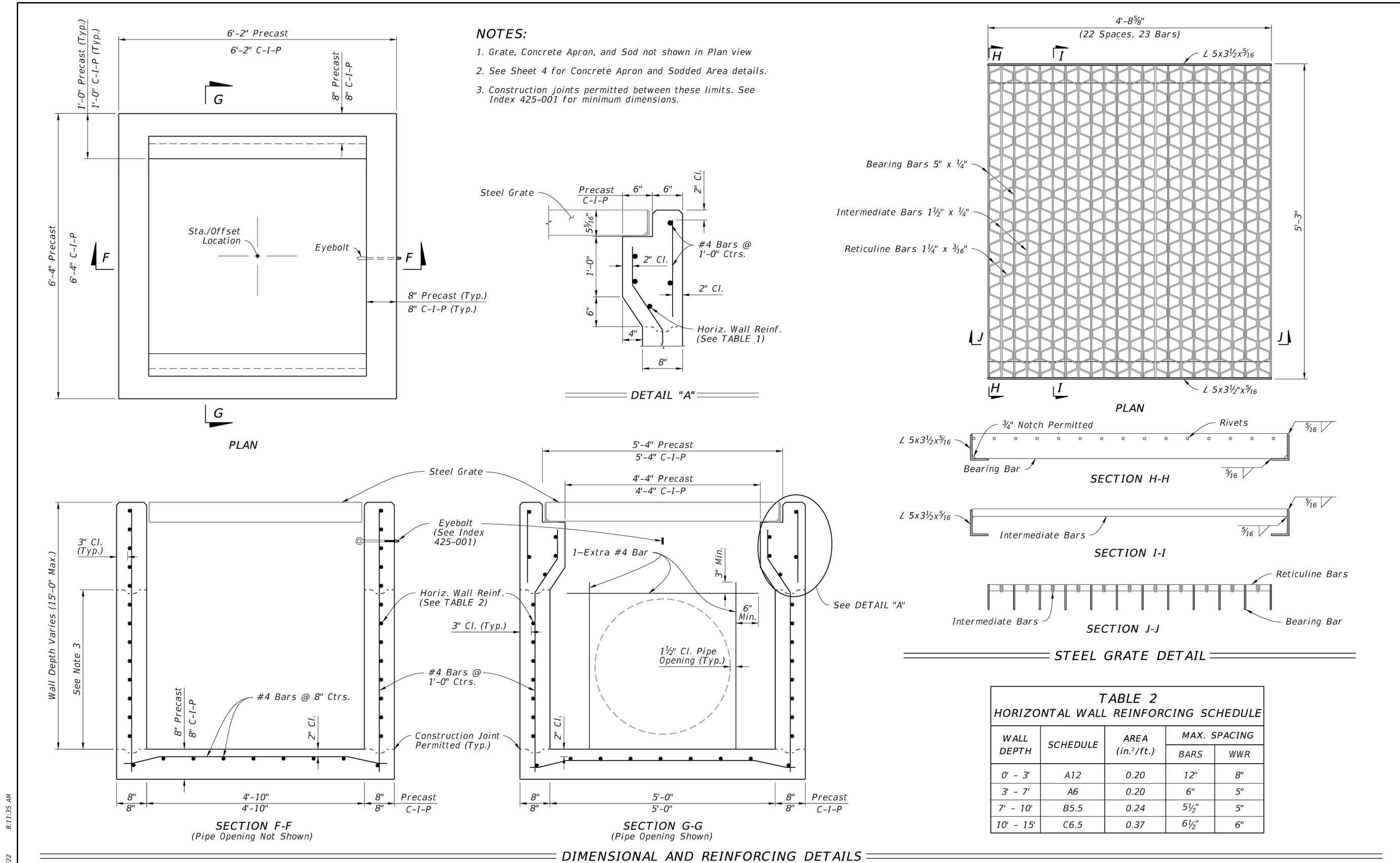
TYPE C - DIMENSIONAL, REINFORCING, AND STEEL GRATE DETAILS

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LAST REVISION 10/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES F AND G	INDEX 425-053	SHEET 3 of 4
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NOTES:

1. Grate, Concrete Apron, and Sod not shown in Plan view.
2. See Sheet 4 for Concrete Apron and Sodded Area details.
3. Construction joints permitted between limits. See Index 425-001 for minimum dimensions.



**TABLE 2
HORIZONTAL WALL REINFORCING SCHEDULE**

WALL DEPTH	SCHEDULE	AREA (in. ² /ft.)	MAX. SPACING BARS	WWF
0' - 3"	A12	0.20	12"	8"
3' - 7"	A6	0.20	6"	5"
7' - 10"	B5.5	0.24	5 1/2"	5"
10' - 15"	C6.5	0.37	6 1/2"	6"

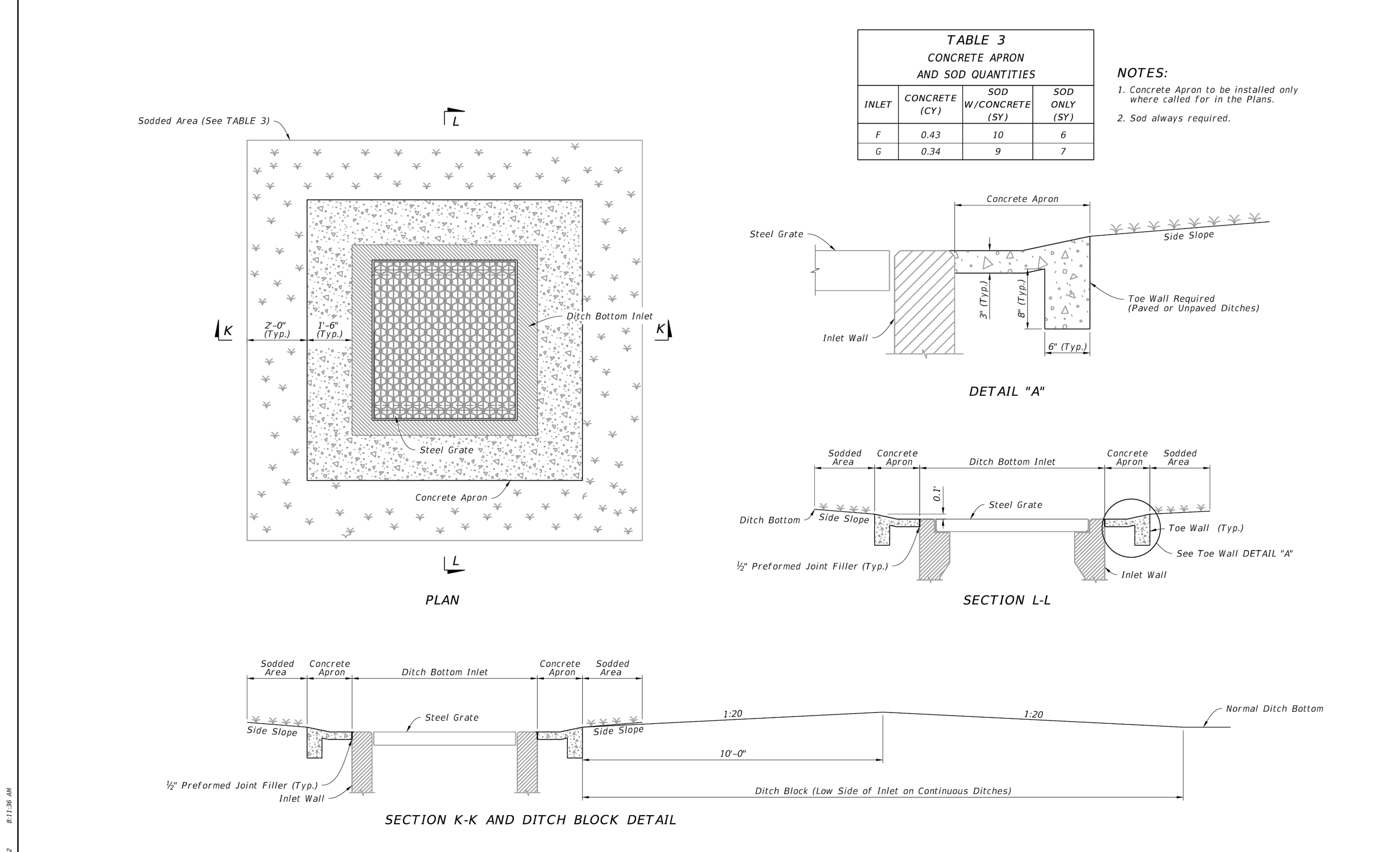
TYPE G - DIMENSIONAL, REINFORCING, AND GRATE DETAILS

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**TABLE 3
CONCRETE APRON AND SOD QUANTITIES**

INLET	SOD	
	CONCRETE (CY)	SOD ONLY (SY)
F	0.43	10
G	0.34	9

- NOTES:**
1. Concrete Apron to be installed only where called for in the Plans.
 2. Sod always required.



CONCRETE APRON AND SODDED AREA DETAILS

LAST REVISION 10/01/20	DESCRIPTION:	FY 2023-24 STANDARD PLANS	DITCH BOTTOM INLET TYPES F AND G	INDEX 425-053	SHEET 4 of 4
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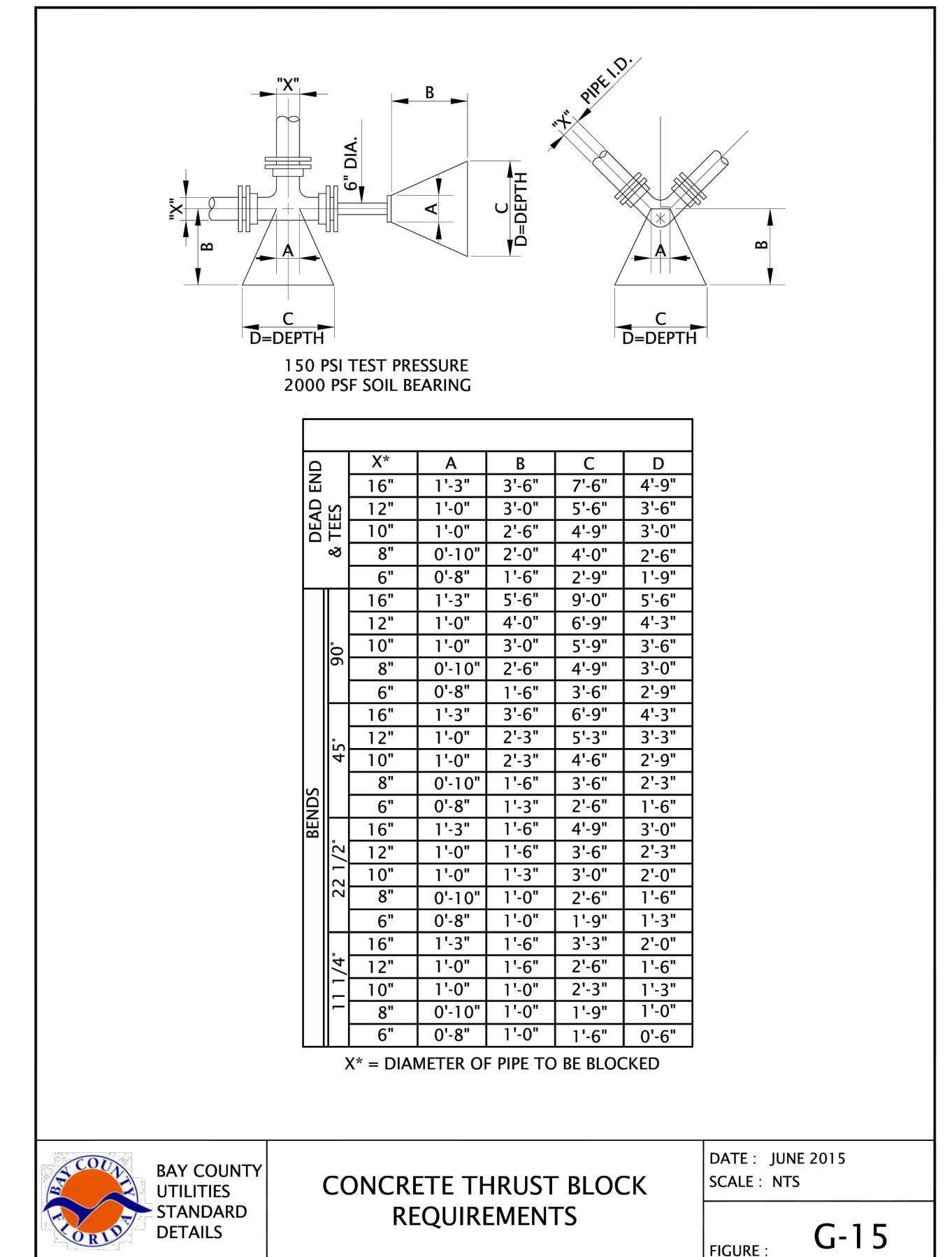
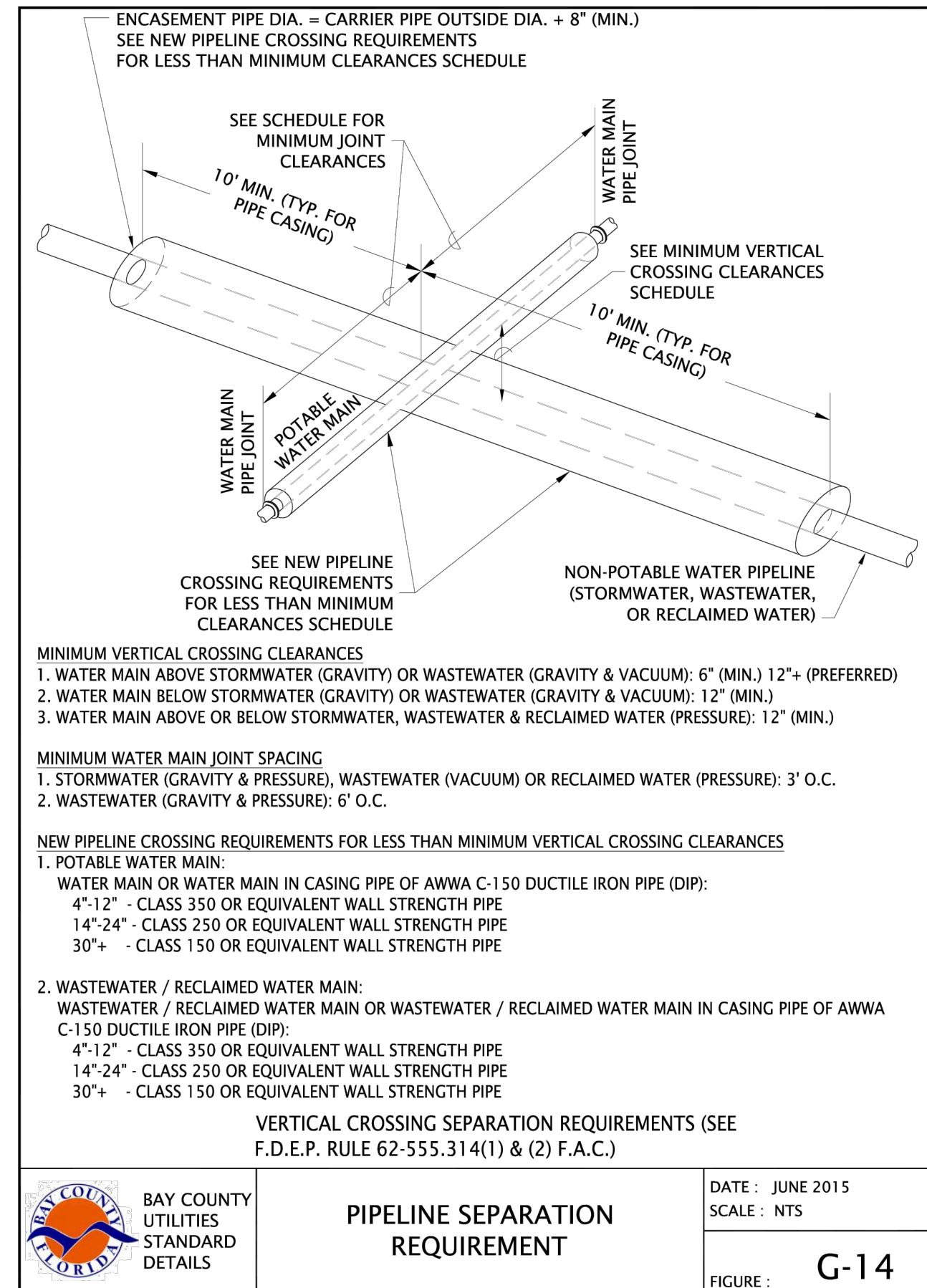
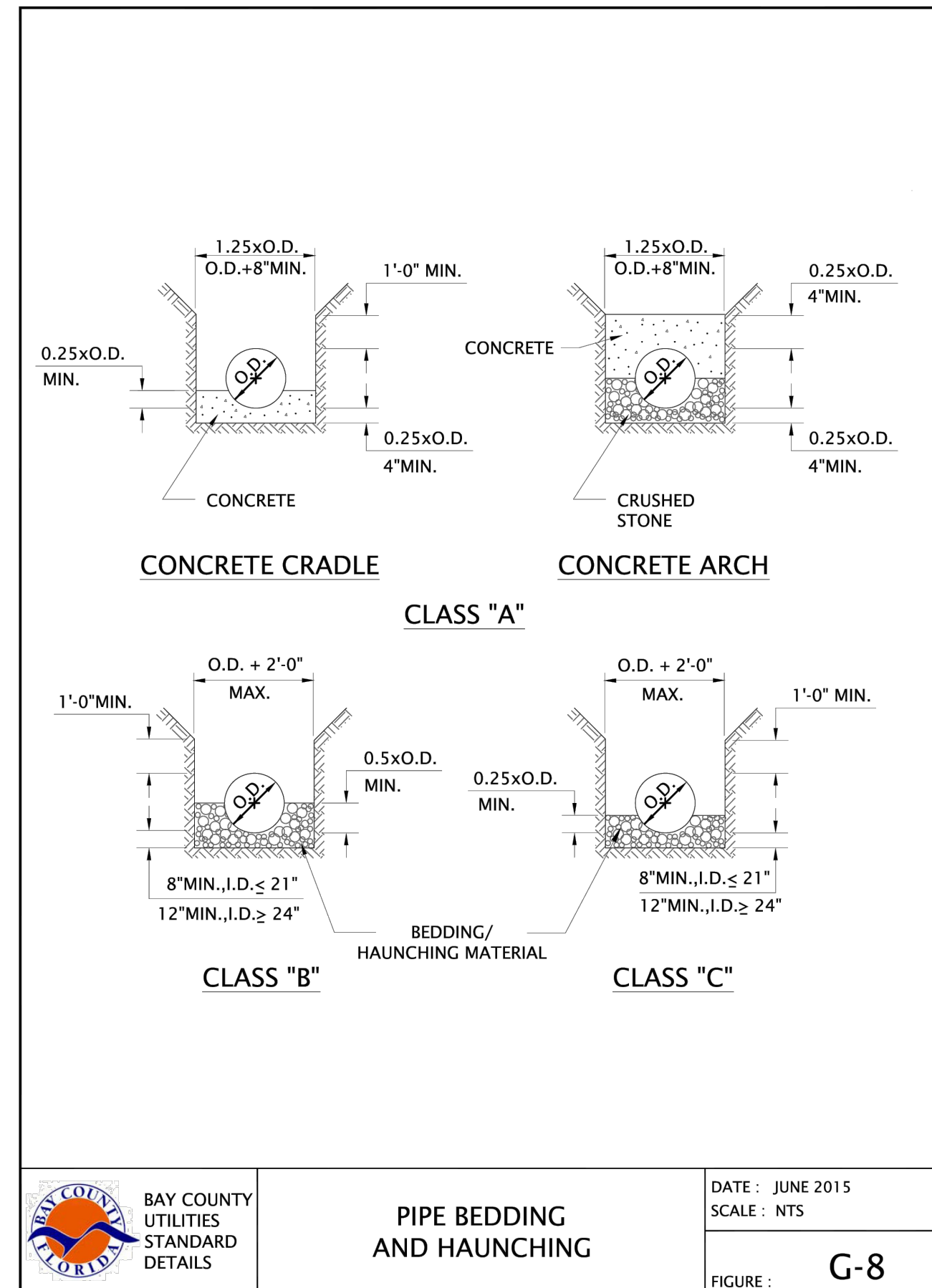
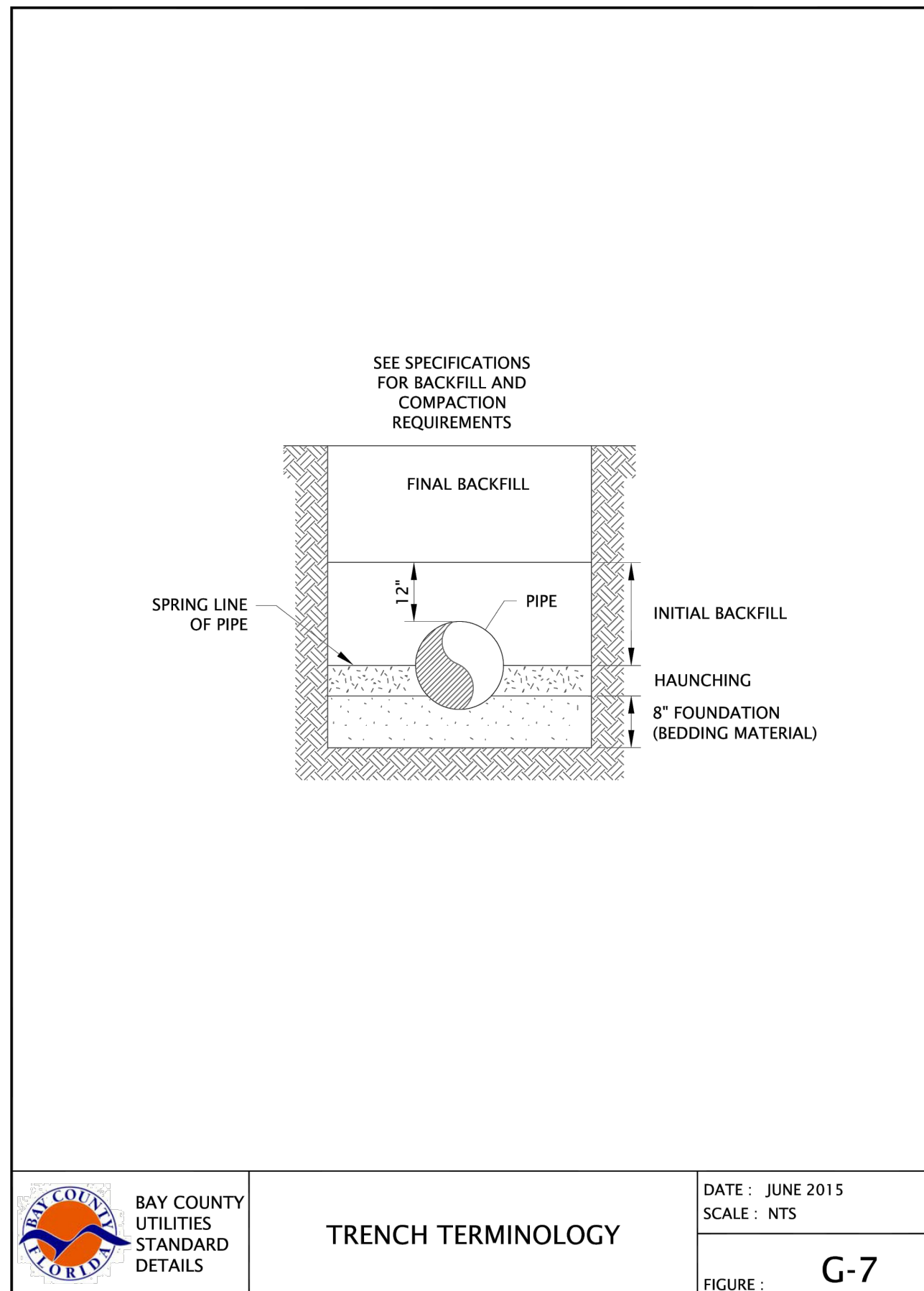
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CONSTRUCTION DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

James H. Slonina, P.E. 39197
 Christopher B. Forehand, P.E. 58028
 J. Doug Crook, P.E. 66556
 William B. Thompson, P.E. 95046

PROFESSIONAL ENGINEER
 STATE OF FLORIDA
 NO. 66556

SHEET NUMBER 9
PROJECT NUMBER 11377



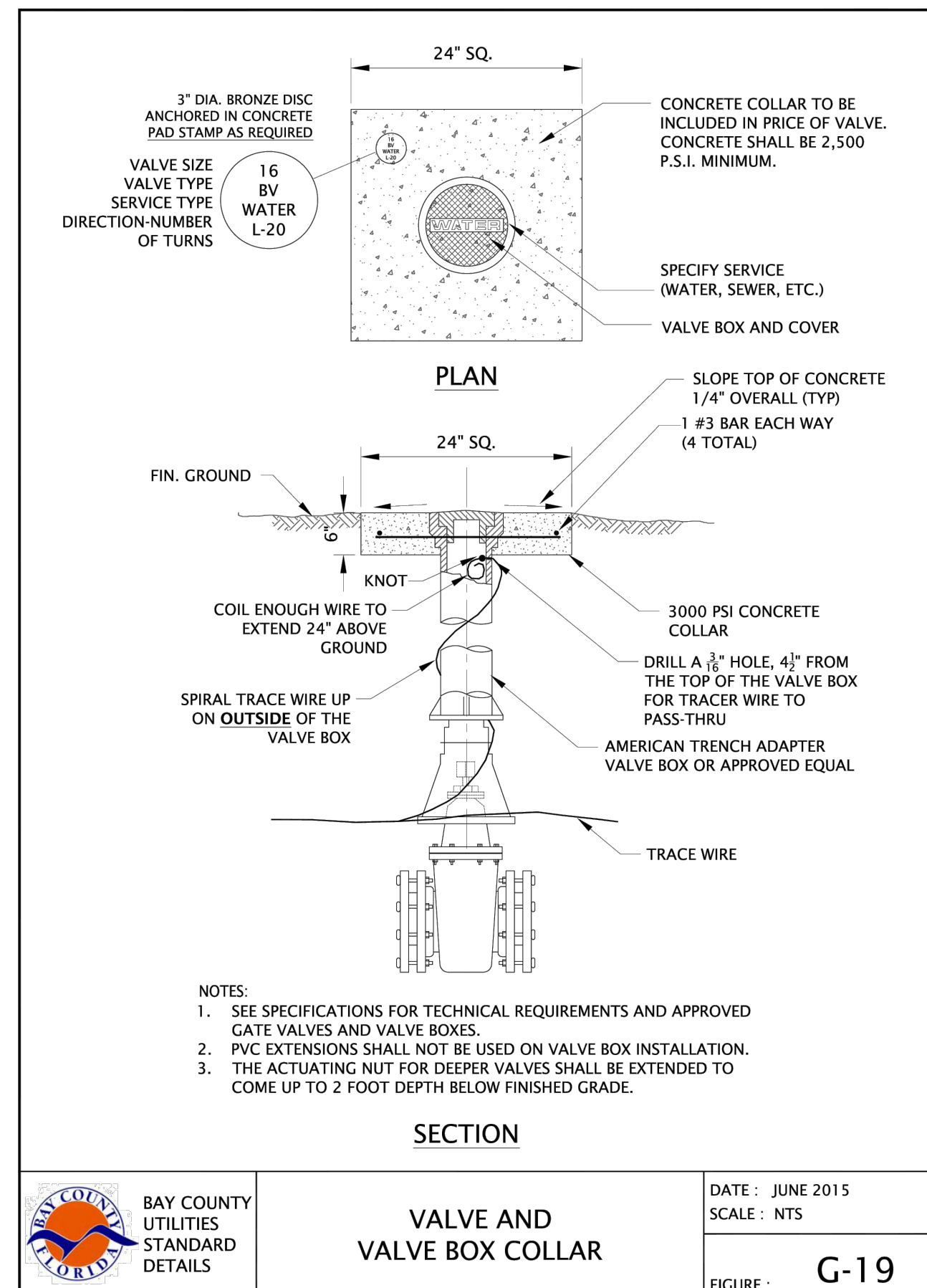
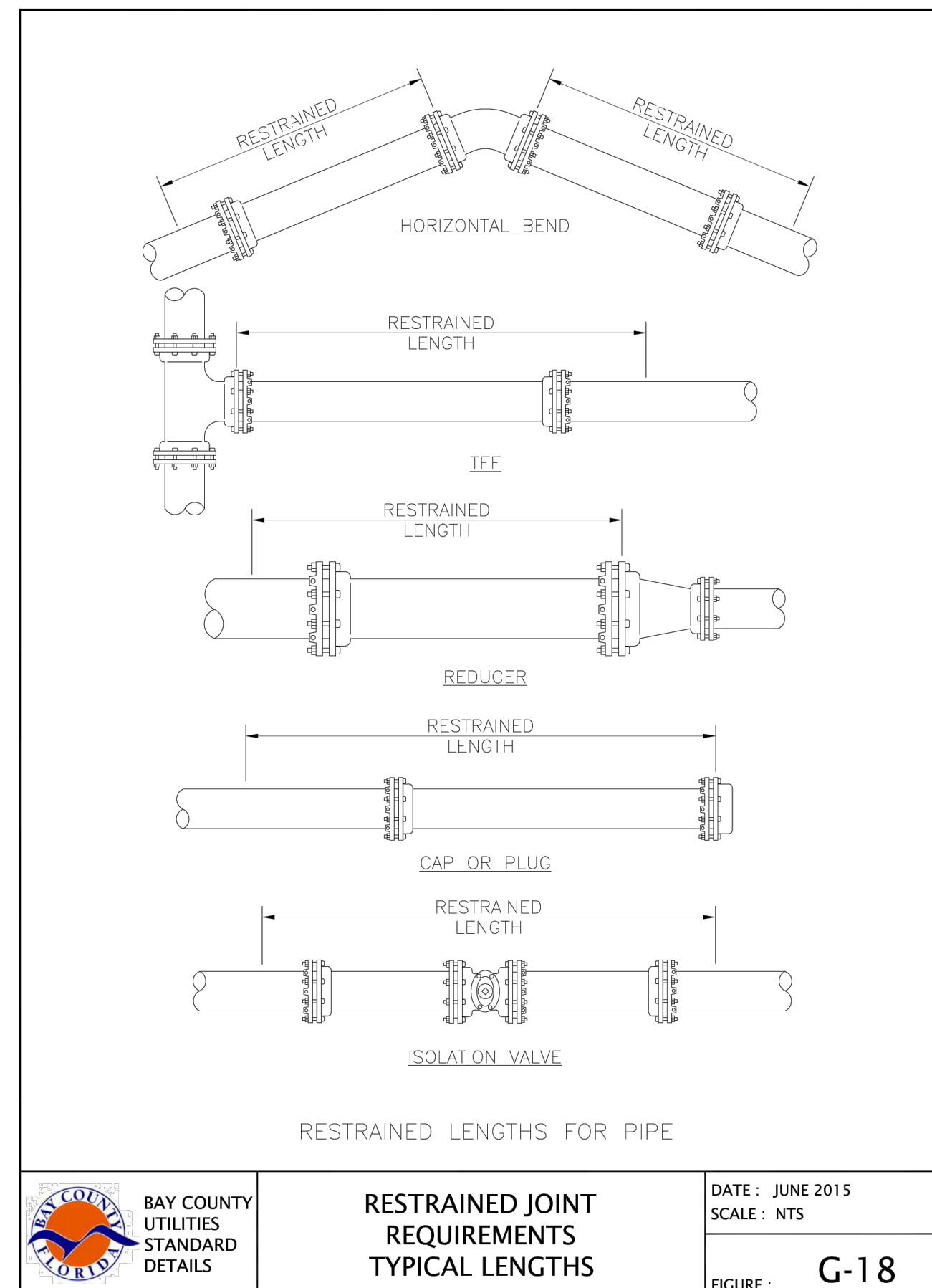
REQUIRED LENGTH OF RESTRAINED JOINT PIPE FOR DR-18 PVC PIPE

MAIN PIPE SIZE	HORIZ. BENDS			TEES			REDUCERS			PLUGS & VALVES
	90°	45°	22.5°	SIZE	LENGTH	SIZE	LENGTH	SIZE	LENGTH	
24	90	38	18	K24	K20	K16	K12	K8	K4	214
20	78	32	16	K20	K16	K12	K8	K4	K0	184
16	66	27	13	K16	K12	K8	K4	K0	K0	151
12	52	22	10	K12	K8	K4	K0	K0	K0	118
10	44	18	9	K10	K8	K4	K0	K0	K0	100
8	37	15	7	K8	K4	K0	K0	K0	K0	83
6	29	12	6	K6	K4	K0	K0	K0	K0	63
4	21	8	4	K4	K0	K0	K0	K0	K0	45

NOTES:

1. RESTRAIN 11.25° BENDS 50% OF LENGTH FOR 22.5° BENDS.
2. ALL VALVES AND FITTINGS SHALL BE RESTRAINED TO THE CONNECTION SECTIONS OF PIPE.
3. ALL ISOLATION VALVES MUST BE PROPERLY ANCHORED OR RESTRAINED TO RESIST A 180 PSI TEST PRESSURE IN EITHER DIRECTION.
4. PIPE SIZES ARE GIVEN IN INCHES.
5. RESTRAINED PIPE LENGTHS ARE GIVEN IN FEET.
6. LENGTHS SHOWN ARE FOR A TEST PRESSURE OF 180 PSI.
7. THE RESTRAINED LENGTHS SHOWN IN THESE TABLES ARE BASED ON SOIL CLASSIFICATION SP WITH AWWA TYPE 3 TRENCH CONDITIONS, 180 PSI TEST PRESSURE, 3 FEET OF COVER AND 1.5 FACTOR OF SAFETY. ACTUAL BURY CONDITIONS MUST BE DETERMINED BY THE ENGINEER OF RECORD AND THE RESTRAINED LENGTHS MODIFIED ACCORDINGLY.
8. RESTRAINED LENGTHS TO BE APPLIED TO PIPELINES PER DETAIL RESTRAINED LENGTHS FOR PIPE.

DATE: JUNE 2015
SCALE: NTS
FIGURE: G-16



Date: 9/17/2024 8:01 AM File: P:\11377 Fountain Fire Station\CONV\DWG\Standard\G-16.rvt

REV	DATE	BY	REVISIONS

NOT RELEASED FOR CONSTRUCTION BY: DATE:

SCALE: AS NOTED

DESIGNED BY: JDC

DRAWN BY: DJJ

REVIEWED BY: JDC

ISSUE DATE: SEPTEMBER 17, 2024

ACAD FILE NAME: 11377E1.dwg

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UTILITY DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

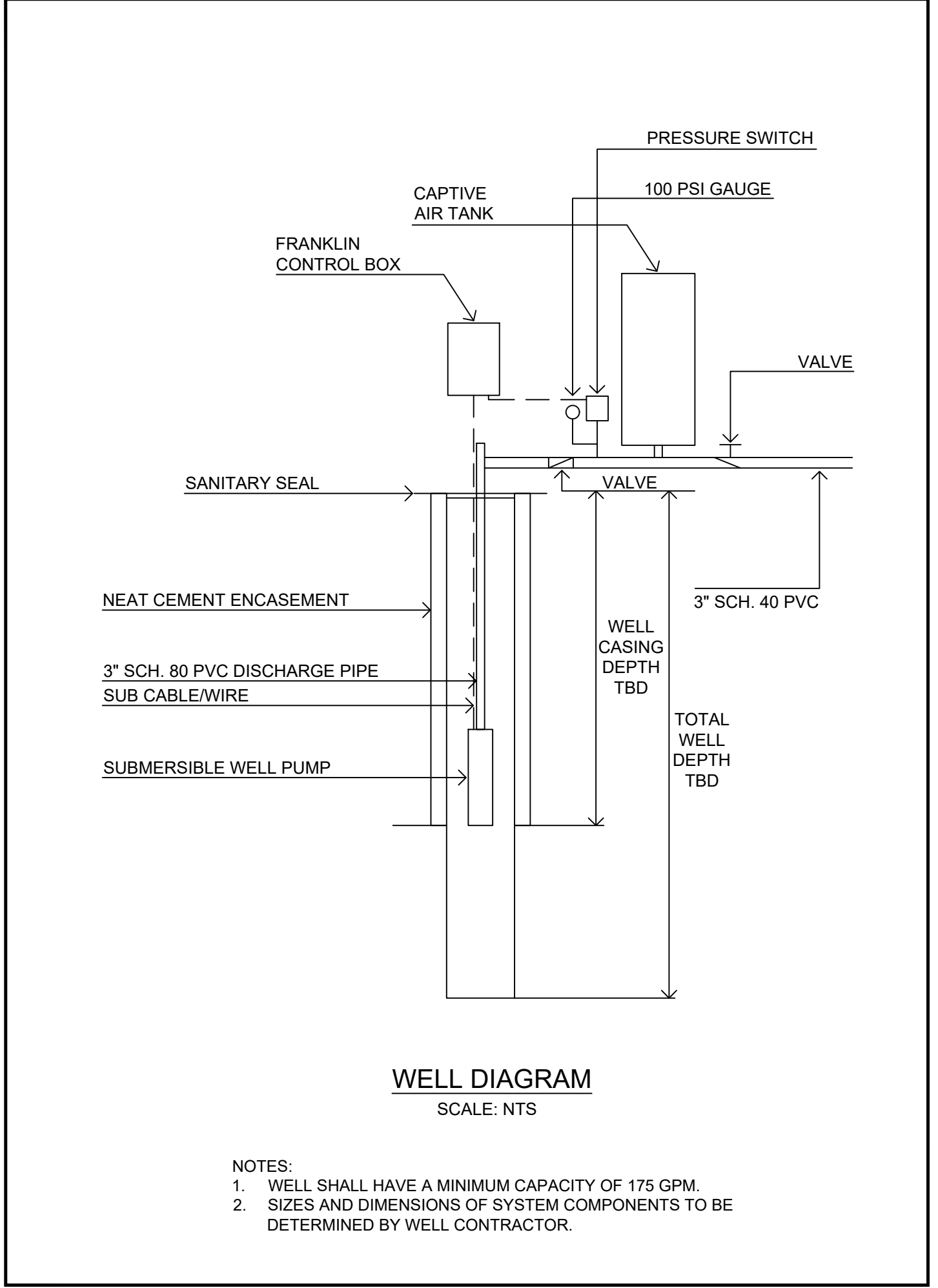
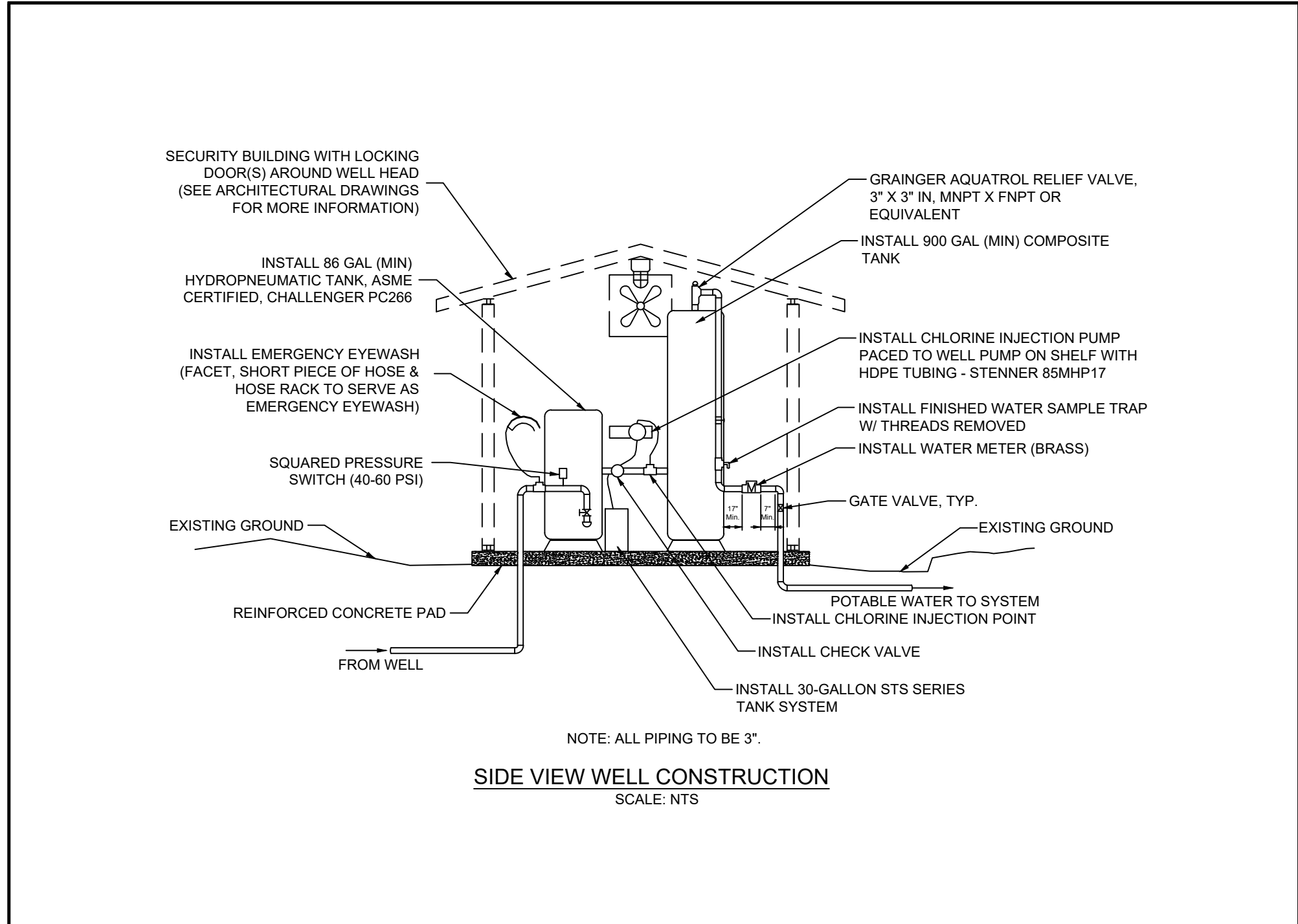
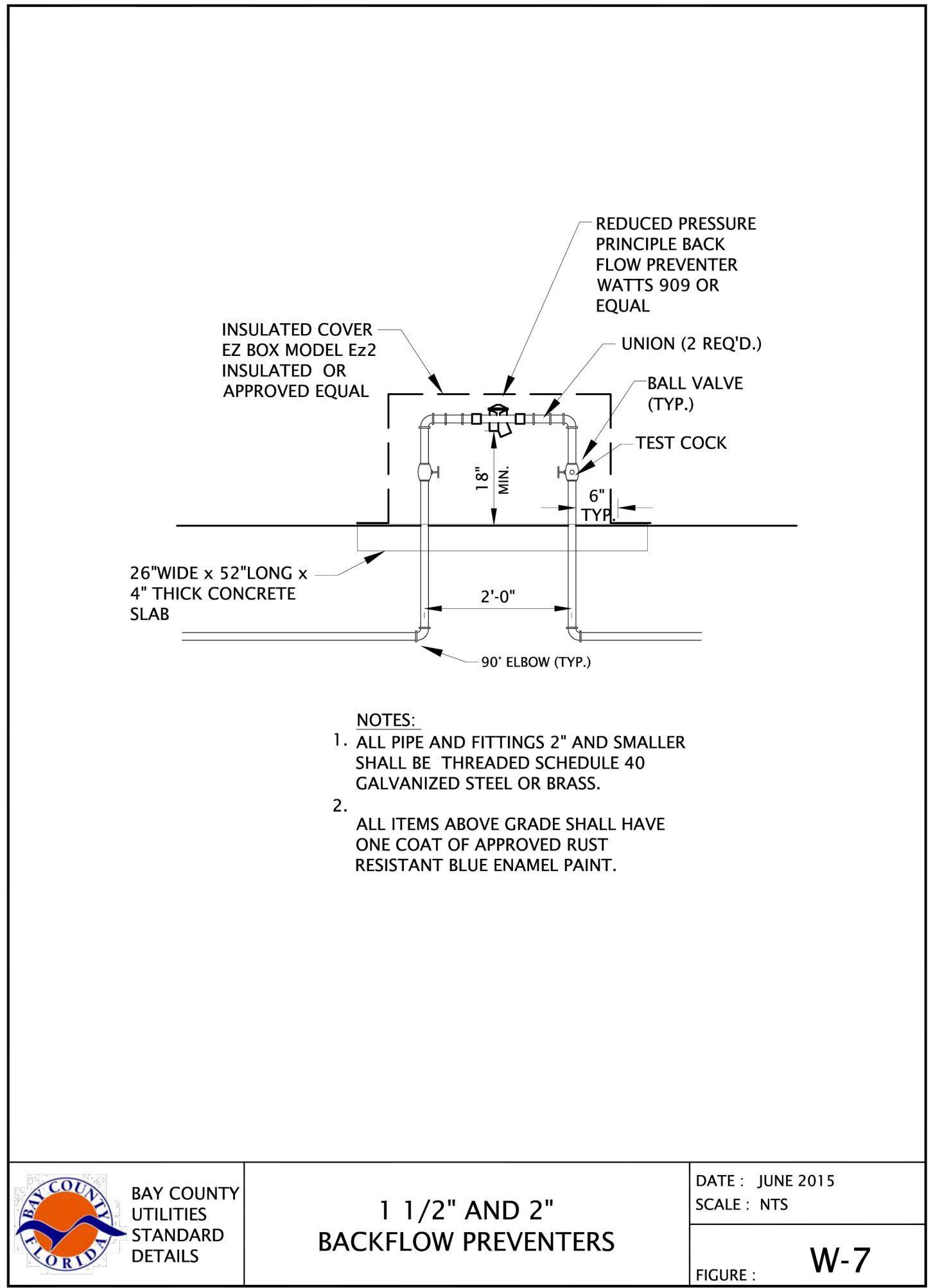
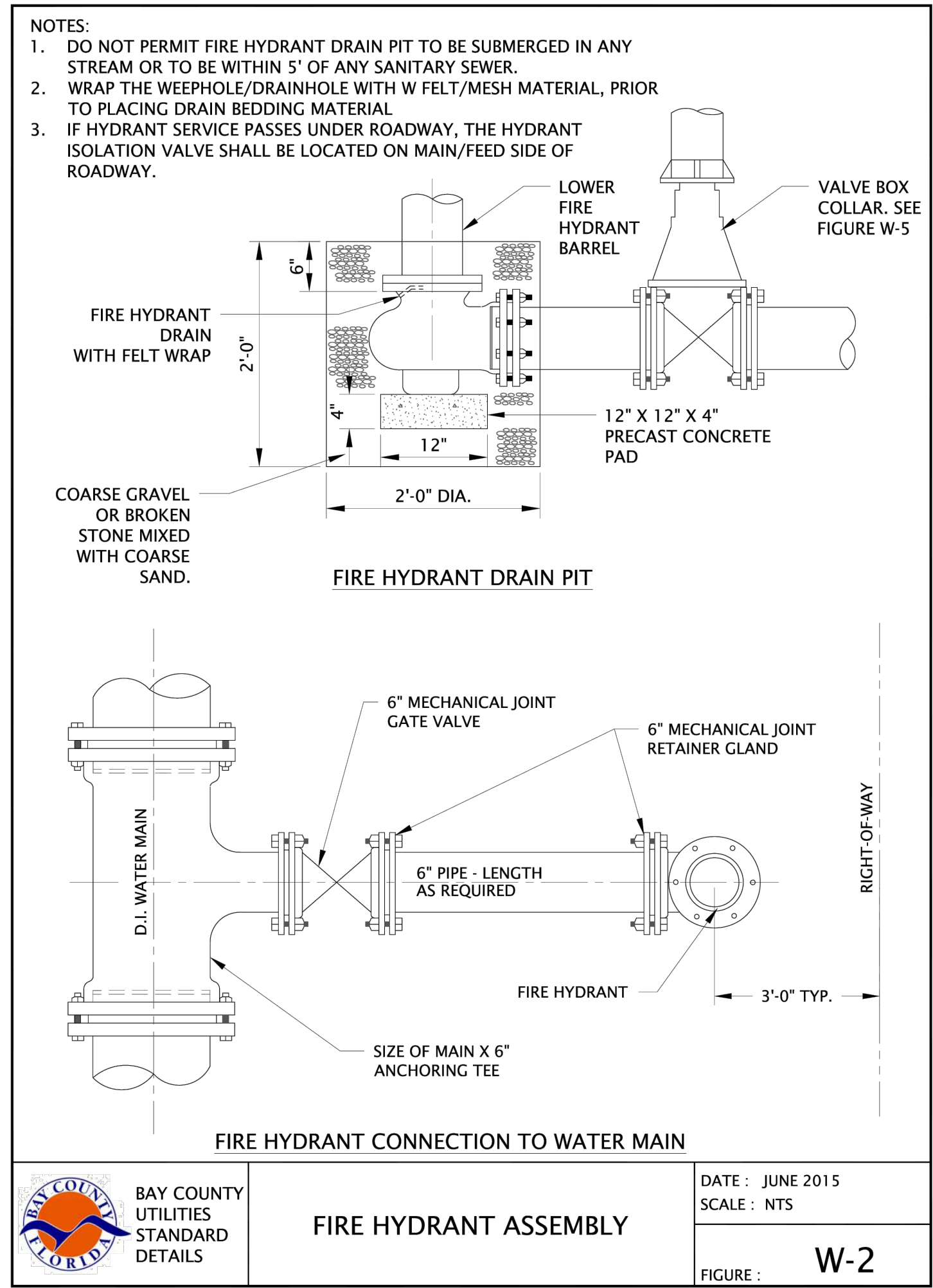
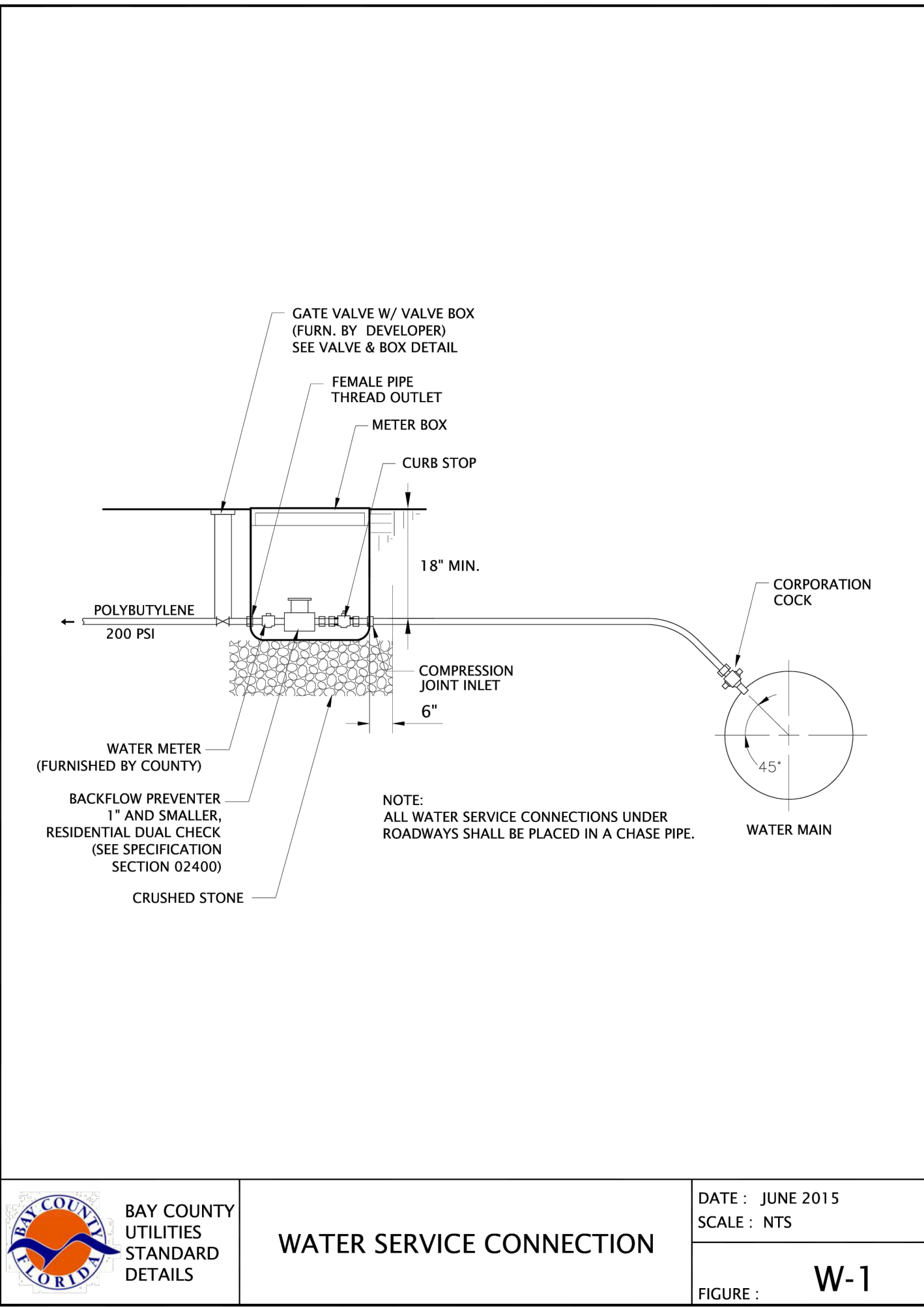
James H. Slorina, P.E. 39197
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William B. Thompson, P.E. 95046

JAMES D. CROOK
LICENSED PROFESSIONAL ENGINEER
NO. 66556
STATE OF FLORIDA

SHEET NUMBER
10

PROJECT NUMBER
11377

11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION UTILITY DETAILS Sheet 10



Date: 9/17/2024 8:02 AM File: P:\11377 Fountain Fire Station\11377.dwg

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SCALE: AS NOTED
DESIGNED BY: JDC
DRAWN BY: DJJ
REVIEWED BY: JDC
ISSUE DATE: SEPTEMBER 17, 2024
ACAD FILE NAME: 11377E1.dwg

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UTILITY DETAILS
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
 Christopher B. Forehand, P.E. 58028
 J. Doug Crook, P.E. 65556
 William B. Thompson, P.E. 95046

JAMES D. CROOK
 LICENSE
 NO. 66556
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

DPR CERTIFICATION #EB-7806

SHEET NUMBER	11
PROJECT NUMBER	11377

11377 FOUNTAIN COMMUNITY COMPLEX FIRE STATION UTILITY DETAILS Sheet 11

GENERAL NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL WORK IN THIS SET OF DRAWINGS.
- 2. CONTRACTOR SHALL REVIEW ALL PERMITS PRIOR TO CONSTRUCTION FOR ANY CHANGES TO THE DESIGN INCLUDED THEREIN. NOTIFY ENGINEER/OWNER OF ANY REQUIRED CHANGES PRIOR TO CONSTRUCTION.
- 3. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR(S) TO ENSURE THAT ALL REQUIRED PERMITS ARE OBTAINED AND ARE IN HAND AT THE JOB SITE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. CONTRACTOR SHALL ABIDE BY ALL CONDITIONS CONTAINED THEREIN. PERMITS INCLUDED (BUT NOT NECESSARILY LIMITED TO) ARE:
 - FDEP NPDES NOTICE OF INTENT (STORMWATER POLLUTION PREVENTION PLAN)
 - NORTHWEST FLORIDA WATER MANAGEMENT DISTRICT ENVIRONMENTAL RESOURCE PERMIT
 - BAY COUNTY DEVELOPMENT ORDER
- 4. FLORIDA LAW (F.S. 563.851) PROTECTION OF UNDERGROUND GAS PIPELINES MANDATES THAT "NO EXCAVATOR SHALL COMMENCE OR PERFORM ANY EXCAVATION IN ANY PUBLIC OR PRIVATE STREET, ALLEY, RIGHT-OF-WAY DEDICATED TO THE PUBLIC USE, OR GAS UTILITY EASEMENT WITHOUT FIRST OBTAINING INFORMATION CONCERNING THE POSSIBLE LOCATION OF GAS PIPELINES IN THE AREA OF THE PROPOSED EXCAVATION." THIS INCLUDES ANY OPERATION UTILIZING HAND TOOLS OR POWER TOOLS WHICH MOVES OR REMOVES ANY STRUCTURE, EARTH, ROCK, OR OTHER MASS OF MATERIAL BY SUCH METHODS AS DIGGING, BACKFILLING, DEMOLITION, GRADING, DITCHING, BORING AND CABLE PLOWING. THE EXCAVATOR MUST NOTIFY THE GAS UTILITY A MINIMUM OF 48 HOURS AND A MAXIMUM OF 5 DAYS PRIOR TO EXCAVATING (EXCLUDING SATURDAYS, SUNDAYS, AND LEGAL HOLIDAYS).
- 5. CONTRACTOR SHALL NOTIFY ALL APPROPRIATE UTILITY COMPANIES OF PROPOSED START OF WORK IN ACCORDANCE WITH THEIR STANDARD REQUIREMENTS, INCLUDING BUT NOT LIMITED TO WATER, SEWER, POWER, TELEPHONE, GAS AND CABLE TV COMPANIES.
- 6. PRIOR TO COMMENCEMENT, CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH CONSTRUCTION SCHEDULE FOR VARIOUS SITE WORK ELEMENTS SO THAT PERIODIC SITE VISITS MAY BE COORDINATED TO ENSURE TIMELY CERTIFICATION OF COMPLETION TO AGENCIES AND AVOID DELAYS IN ISSUANCE OF CERTIFICATES OF OCCUPANCY/COMPLETION.
- 7. CONTRACTOR SHALL FURNISH OWNER WITH ACCURATE AS-BUILT DRAWINGS CERTIFIED BY A FLORIDA LICENSED SURVEYOR SHOWING AS-CONSTRUCTED HORIZONTAL AND VERTICAL DIMENSIONING OF THE WORK. THE SUBMITTAL COPY OF THE AS-BUILT DRAWINGS WILL NOT BE RETURNED. THE RECORD DRAWING OR A REPRODUCIBLE COPY PREPARED BY ENGINEER SHALL BE CERTIFIED BY THE CONTRACTOR AS CORRECT. ALL INFORMATION WHICH IS UNCHANGED AND CURRENT SHALL BE NOTED BY CHECKING OFF OR CLOUDING. ALL REVISED INFORMATION SHALL BE CROSSED THROUGH AND NEW DATA ADDED. ADDITIONAL REQUIREMENTS ARE NOTED IN PAVING, GRADING AND DRAINAGE, AND WATER AND SEWER NOTES.
- 8. THE LOCATIONS OF EXISTING UTILITIES AND STORM DRAINAGE SHOWN ON THE DRAWINGS HAVE BEEN DETERMINED FROM THE BEST INFORMATION AVAILABLE AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. ENGINEER ASSUMES NO RESPONSIBILITY FOR INACCURACY. PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAKE ARRANGEMENTS FOR FIELD LOCATIONS AND FOR ANY RELOCATIONS OF THE VARIOUS EXISTING UTILITIES WITH THE UTILITY OWNERS, WHICH SHALL BE DONE IN A TIMELY FASHION TO MINIMIZE IMPACT ON THE CONSTRUCTION SCHEDULE. ANY DELAY OR INCONVENIENCE CAUSED BY THE CONTRACTOR BY THE RELOCATION OF THE VARIOUS UTILITIES SHALL BE INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.
- 9. ANY DIFFERING SITE CONDITIONS FROM THAT WHICH IS REPRESENTED HEREIN, WHETHER ABOVE, ON OR BELOW THE SURFACE OF THE GROUND, SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER AND OWNER IN WRITING PRIOR TO CONSTRUCTION IN THE AREA IMPACTED BY THE CONFLICT. NO CLAIM FOR EXPENSES INCURRED BY THE CONTRACTOR DUE TO DIFFERING SITE CONDITIONS WILL BE ALLOWED IF CONTRACTOR FAILS TO PROVIDE THE REQUIRED WRITTEN NOTIFICATION OF SUCH CONDITIONS FOR REVIEW BY THE ENGINEER AND OWNER.
- 10. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER OF ANY DISCREPANCIES FOUND BETWEEN DRAWINGS AND THE FIELD CONDITIONS PRIOR TO CONSTRUCTION IN THE AREA IMPACTED BY THE CONFLICT.
- 11. ALL RECOMMENDATIONS AND REQUIREMENTS OF THE INSPECTION PERSONNEL OTHER THAN OWNER'S SHALL BE REPORTED TO ENGINEER/OWNER PRIOR TO IMPLEMENTATION. COMPENSATION WILL NOT BE ALLOWED FOR WORK WHICH IS NOT AUTHORIZED BY ENGINEER/OWNER.
- 12. CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTIES FROM DAMAGE BY SEDIMENTATION OR OTHER POTENTIAL CONSTRUCTION RELATED CAUSES.
- 13. ALL WORK SHALL BE OPEN TO AND SUBJECT TO INSPECTION BY AUTHORIZED PERSONNEL OF THE COUNTY, OWNER, INVOLVED UTILITY COMPANIES, ENGINEER AND REGULATORY AGENCIES.
- 14. CONTRACTOR SHALL STAKE ALL IMPROVEMENTS USING THE INFORMATION PROVIDED IN THESE DRAWINGS. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO COMPLETE STAKE AND CHECK ALL IMPROVEMENTS TO ENSURE ADEQUATE POSITIONING, BOTH HORIZONTAL AND VERTICAL PRIOR TO THE INSTALLATION OF ANY IMPROVEMENT.
- 15. CONTRACTOR SHALL CONFIRM COMPATIBILITY OF PIPE SLOPES AND INVERTS DURING SHOP DRAWING AND MATERIALS ORDERING PHASE OF PROJECT AND ADVISE ENGINEER OF ANY DISCREPANCIES.
- 16. NO EXISTING MATERIAL SHALL BE USED IN NEW CONSTRUCTION UNLESS APPROVED DURING THE SHOP DRAWING APPROVAL PROCESS.
- 17. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ENGINEER AND AGENCY APPROVAL PRIOR TO PROCUREMENTS OF MATERIALS.
- 18. CONTRACTOR TO SUBMIT COPIES OF ALL TESTING REPORTS TO THE OWNER AND ENGINEER FOR ACCEPTANCE AND CERTIFICATIONS.
- 19. CONTRACTOR TO REFERENCE CONSTRUCTION AND MATERIALS TECHNICAL SPECIFICATIONS CONTAINED WITHIN THE PROJECT MANUAL DISTRIBUTED BY THE OWNER.
- 20. CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING PROPER TRAFFIC MAINTENANCE AND CONTROLS IN ACCORDANCE WITH REGULATORY STANDARDS. WHERE A TRAFFIC MAINTENANCE PLAN IS REQUIRED, IT SHALL BE PREPARED AND SUBMITTED BY THE CONTRACTOR FOR APPROVAL BY OWNER, ENGINEER AND COUNTY.
- 21. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROJECT SITE DURING CONSTRUCTION, TO PREVENT TRESPASSING OF UNAUTHORIZED PEDESTRIANS AND/OR VEHICLES IN ALL WORK AREAS. THE CONTRACTOR SHALL POST SIGNS, CONSTRUCT BARRIERS OR IMPLEMENT OTHER METHODS NECESSARY TO CONTROL ACCESS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR TRESPASSING ON THE CONSTRUCTION SITE OR DAMAGES TO ANY WORK RELATED THERETO.
- 22. DENSITIES IN ALL UTILITY AND STORM TRENCHES SHALL BE 98% OF THE MODIFIED PROCTOR MAXIMUM DENSITY. CONTRACTOR SHALL PROVIDE TESTING RESULTS UPON REQUEST.
- 23. ALL SANITARY SEWER AND STORM SEWER PIPING SHALL BE VIDEO INSPECTED BEFORE PAVING AND AGAIN PRIOR TO THE END OF THE ONE-YEAR WARRANTY PERIOD. ALL SANITARY SEWER AND STORM SEWER WITH LESS THAN FIVE FEET OF COVER SHALL BE VIDEO INSPECTED AFTER PAVEMENT BASE INSTALLATION.
- 24. AS-BUILT RECORD DRAWINGS SHALL COMPLY WITH BAY COUNTY REQUIREMENTS AVAILABLE ONLINE.
- 25. SHOULD THERE BE ANY CONFLICT BETWEEN THE NOTES ON THIS SHEET AND THE BAY COUNTY STANDARD SPECIFICATIONS OR DETAILS THEN THE COUNTY INFORMATION SHALL OVERRIDE.

GRADING AND DRAINAGE NOTES:

- 1. THESE GENERAL NOTES APPLY TO ALL THE WORK IN THIS SET OF DRAWINGS.
- 2. ALL INDICATED ELEVATIONS ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- 3. EXISTING ELEVATIONS SHOWN ON THESE PLANS ARE BASED ON A TOPOGRAPHIC SURVEY PRODUCED BY DRAGON LAND SURVEYING, INC. DATED 9/9/19. CONTRACTOR SHALL VERIFY ITS CORRECTNESS AT THE TIME OF CONSTRUCTION.
- 4. SITE GRADING AND DRAINAGE MATERIALS AND CONSTRUCTION SHALL CONFORM TO FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- 5. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SURVEY MONUMENTATION. DISTURBED MONUMENTATION SHALL BE RESTORED BY A FLORIDA LICENSED LAND SURVEYOR SELECTED BY THE OWNER AT THE CONTRACTOR'S EXPENSE.
- 6. DURING CONSTRUCTION, THE CONTRACTOR SHALL TAKE ALL RESPONSIBLE MEASURES TO INSURE AGAINST POLLUTING, SILTING, OR DISTURBING TO SUCH AN EXTENT AS TO CAUSE AN INCREASE IN TURBIDITY TO THE EXISTING ONSITE AND OFFSITE DRAINAGE SYSTEM. CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLYING WITH ALL PERMIT REQUIREMENTS RELATED TO SUCH MEASURES. METHODS MAY INCLUDE, BUT ARE NOT LIMITED TO, CONSTRUCTION OF TEMPORARY EROSION CONTROL STRUCTURES SUCH AS SEDIMENT BASINS, SEDIMENT CHECKS, SILT BARRIERS, OR SILT SCREENS. ANY MEASURES SHOWN OR DETAILED IN THESE DRAWINGS SHALL BE CONSIDERED MINIMUMS AND SHALL NOT ALLEVIATE CONTRACTOR FROM THE RESPONSIBILITY TO IMPLEMENT ANY MEASURES NECESSARY TO PROVIDE PROTECTION.
- 7. CONTRACTOR IS ADVISED THAT THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY AND FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION AGENCY REQUIRES THAT OPERATORS FILE A NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NPDES GENERAL PERMIT PRIOR TO BEGINNING WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE WHETHER SAID PERMIT IS REQUIRED AND TO OBTAIN SAME. A COPY SHALL BE SENT TO THE ENGINEER AND OWNER.
- 8. GEOTECHNICAL SERVICES HAVE BEEN PROVIDED AS REFERENCED BELOW. GEOTECHNICAL RECOMMENDATIONS ARE NOT THE RESPONSIBILITY OF THE ENGINEER. THE ENGINEER HAS RELIED ON THE BELOW REFERENCED GEOTECHNICAL REPORT IN PREPARATION OF THESE DRAWINGS. ANY CONFLICT BETWEEN INFORMATION WITHIN THE REPORT AND THESE DRAWINGS SHALL BE REPORTED TO COMPLETENESS OR ACCURACY OF GEOTECHNICAL INFORMATION.
GEOTECHNICAL ENGINEER: NOVA
PROJECT NO.: 10111-2022064
DATE: APRIL 12, 2022
- 9. ELEVATIONS OF GRASSES ARE GIVEN AT FINISHED GRADE (TOP OF SOD OR SEEDED SURFACE).
- 10. PIPE LENGTHS SHOWN REPRESENT SCALED DISTANCES BETWEEN CENTERLINES OF DRAINAGE STRUCTURES AND FROM INVERTS OF ENDWALLS AND/OR MITERED END SECTIONS. BIDDERS SHALL ADJUST FOR PIPE LENGTHS WHEN BIDDING MITERED END SECTIONS.
- 11. ALL OFF-SITE DISTURBED AREAS SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION, OR BETTER.
- 12. CONTRACTOR IS RESPONSIBLE FOR IDENTIFYING AND DISPOSING OF ALL WASTE MATERIALS CONSISTENT WITH ALL RULES AND REGULATIONS APPLICABLE TO THE SPECIFIC MATERIAL.
- 13. CONTRACTOR SHALL ENSURE THAT SIDEWALK SLOPES DO NOT EXCEED MAXIMUMS SET FORTH BY THE ADA (2.0% MAXIMUM CROSS SLOPE AND 5.0% MAXIMUM LONGITUDINAL SLOPE).
- 14. CONTRACTOR SHALL CLEAN/FULSH THE ENTIRE STORM PIPING SYSTEM AND VIDEO INSPECT. CONTRACTOR SHALL PROVIDE VIDEO INSPECTION FOOTAGE TO ENGINEER OF RECORD FOR REVIEW AND ACCEPTANCE PRIOR TO THE START OF PAVING.

GRADING AND DRAINAGE MATERIAL SPECIFICATIONS:

- 1. STORM PIPE SHALL BE REINFORCED CONCRETE PIPE, PER ASTM C-76 CLASS III, UNLESS OTHERWISE SPECIFIED. LIFTING HOLES ARE PROHIBITED. JOINTS SHALL BE BELL AND SPIGOT WITH COMPRESSION GASKETS CONFORMING TO ASTM C443-85 AND WRAPPED PER FDOT INDEX 280.
- 2. ALL STORM STRUCTURES SHALL CONFORM WITH FDOT STANDARD INDEX DRAWINGS AND SPECIFICATIONS (LATEST EDITION) EXCEPT THAT DITCH BOTTOM INLETS IN PAVED AREAS SHALL HAVE TRAVERSABLE, TRAFFIC BEARING, GRATES SUPPORTED BY STEEL ANGLE SEATS OR SUPPORTED ON FOUR SIDES. GRATES SHALL BE CAST IRON UNLESS OTHERWISE SPECIFIED OR APPROVED.
- 3. ALL CONCRETE WORK SHALL BE 3,000 PSI MINIMUM, UNLESS OTHERWISE SPECIFIED.

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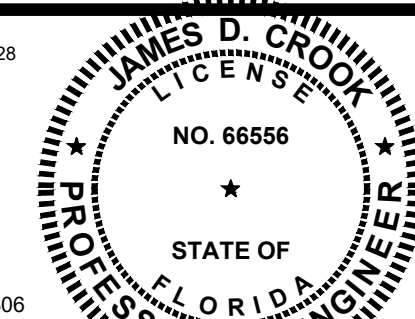
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SCALE: AS NOTED
DESIGNED BY: JDC
DRAWN BY: DJJ
REVIEWED BY: JDC
ISSUE DATE: SEPTEMBER 17, 2024
ACAD FILE NAME: 11377E1.dwg



GENERAL NOTES
FOUNTAIN COMMUNITY COMPLEX
FIRE STATION
BAY COUNTY, FLORIDA

James H. Slorina, P.E. 39197
Christopher B. Forehand, P.E. 58028
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William B. Thompson, P.E. 95046



SHEET NUMBER	12
PROJECT NUMBER	11377

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**FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438**

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: **23.014**

ISSUE DATE: **09.18.2024**

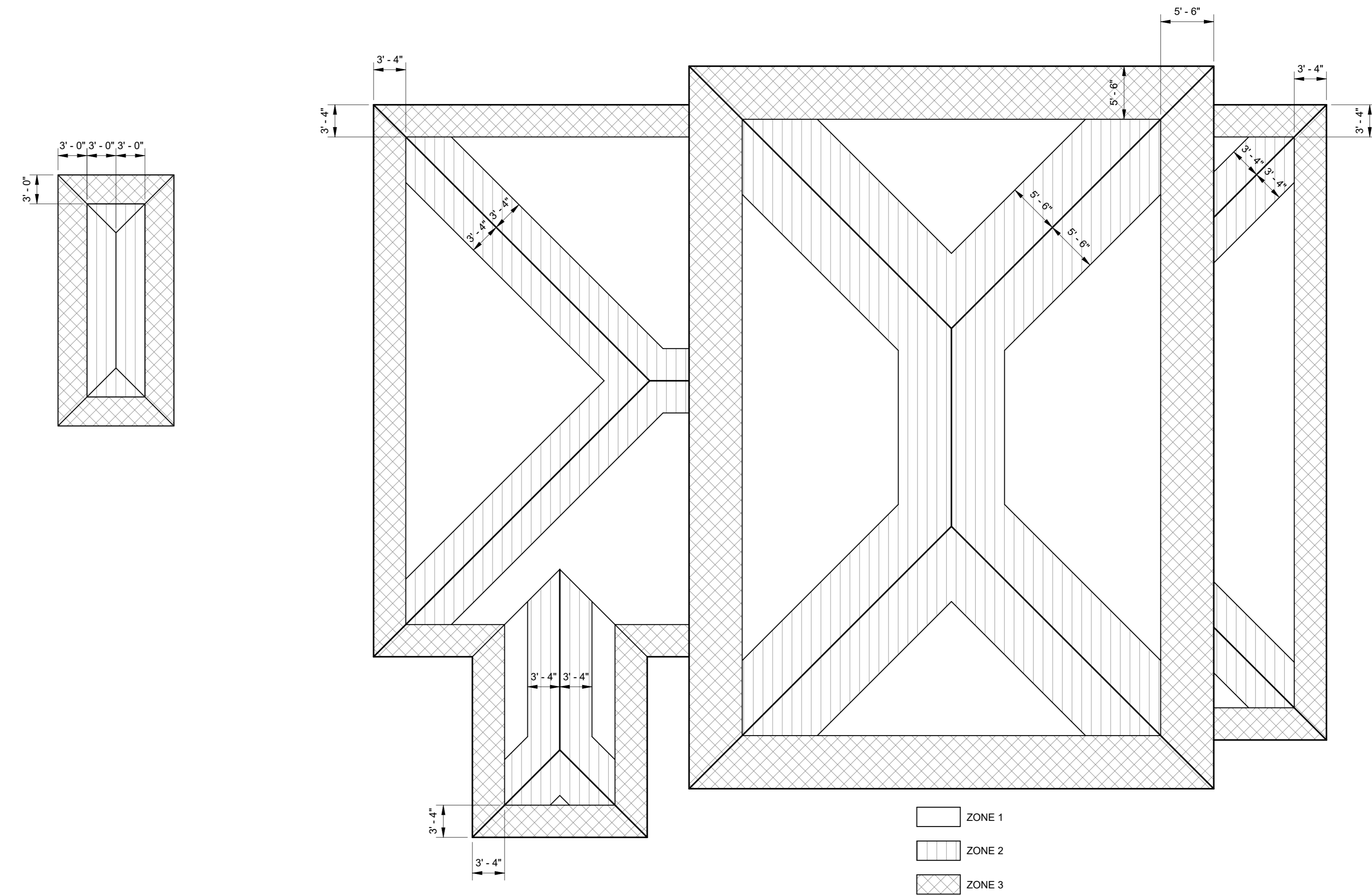
DRAWING TITLE:

COMPONENTS AND CLADDING

SHEET NUMBER:

S-102

EDITION:



Roof Pressures

Area (sq.ft)	Max + Pressure (psf)	Max - Pressure (psf)
ZONE 1		
10	31.8	-89.0
20	29.0	-76.5
50	25.3	-60.0
100	22.4	-47.5
200	16.0	-28.6
500	16.0	-22.6
ZONE 2		
10	31.8	-118
20	29.0	-101
50	25.3	-80.3
100	22.4	-64.2
200	16.0	-39.3
500	16.0	-39.3
ZONE 3		
10	31.8	-154
20	29.0	-132
50	25.3	-103
100	22.4	-80.8
200	16.0	-65.9
500	16.0	-65.9

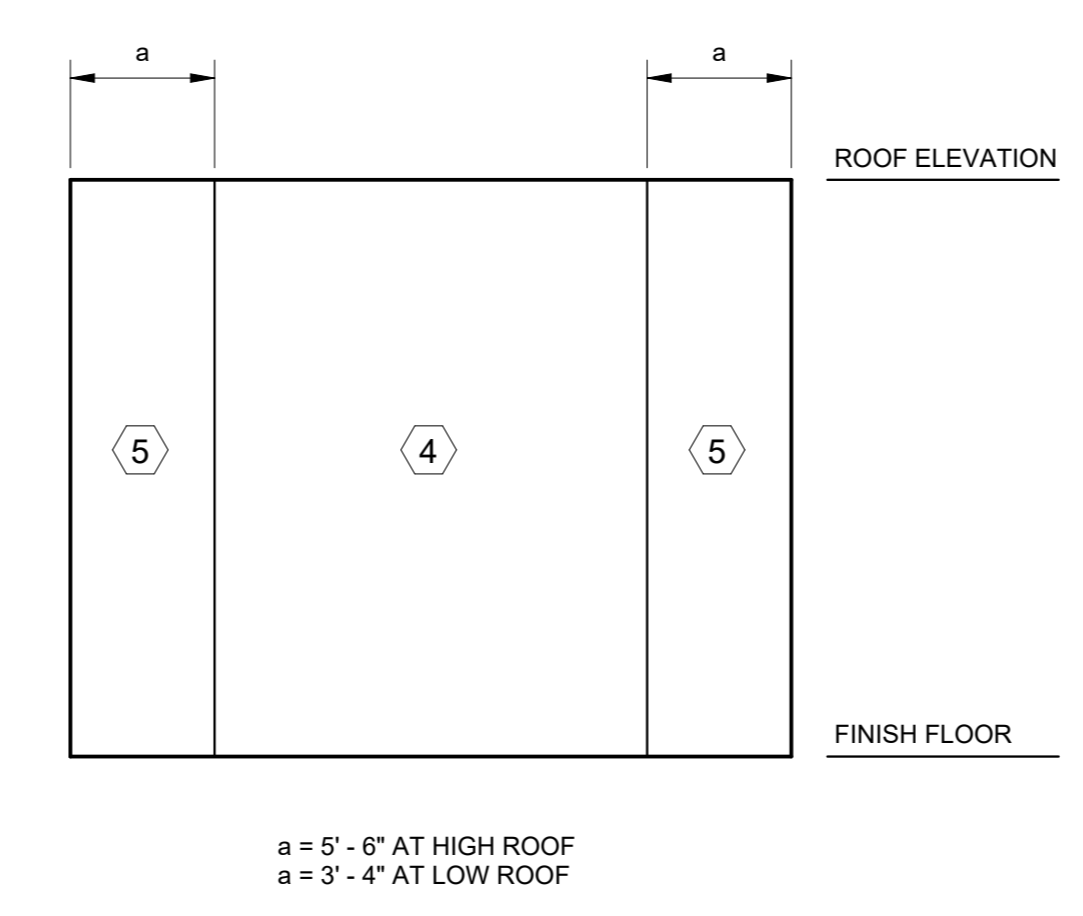
COMPONENTS AND CLADDING TABLE NOTES:
 1. PRESSURES LISTED IN THE TABLES ARE ULTIMATE GROSS COMPONENTS AND CLADDING PRESSURES.
 2. TABULATED PRESSURES CAN BE REDUCED TO AN ALLOWABLE GROSS PRESSURE WITH A 0.6 MULTIPLIER.
 3. RELIABLE DEAD LOAD FOR UPLIFT CALCULATIONS: 6 PSF. MULTIPLY BY 0.6 IF USING WITH ALLOWABLE PRESSURES.

1 C&C Roof Plan
 N.T.S.

Wall Pressures

Area (sq.ft)	Max + Pressure (psf)	Max - Pressure (psf)
ZONE 4		
10	48.1	-52.2
20	46.0	-50.1
50	43.1	-47.2
100	40.9	-45.0
200	31.6	-34.9
500	29.3	-32.6
ZONE 5		
10	48.1	-64.5
20	46.0	-60.1
50	43.1	-54.4
100	40.9	-50.1
200	31.6	-37.3
500	29.3	-32.6

COMPONENTS AND CLADDING TABLE NOTES:
 1. PRESSURES LISTED IN THE TABLES ARE ULTIMATE GROSS COMPONENTS AND CLADDING PRESSURES.
 2. TABULATED PRESSURES CAN BE REDUCED TO AN ALLOWABLE GROSS PRESSURE WITH A 0.6 MULTIPLIER.



2 Wall Components and Cladding Wind Zones
 N.T.S.

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**FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION**
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:
 # Date Description

PROJECT NO: 23.014

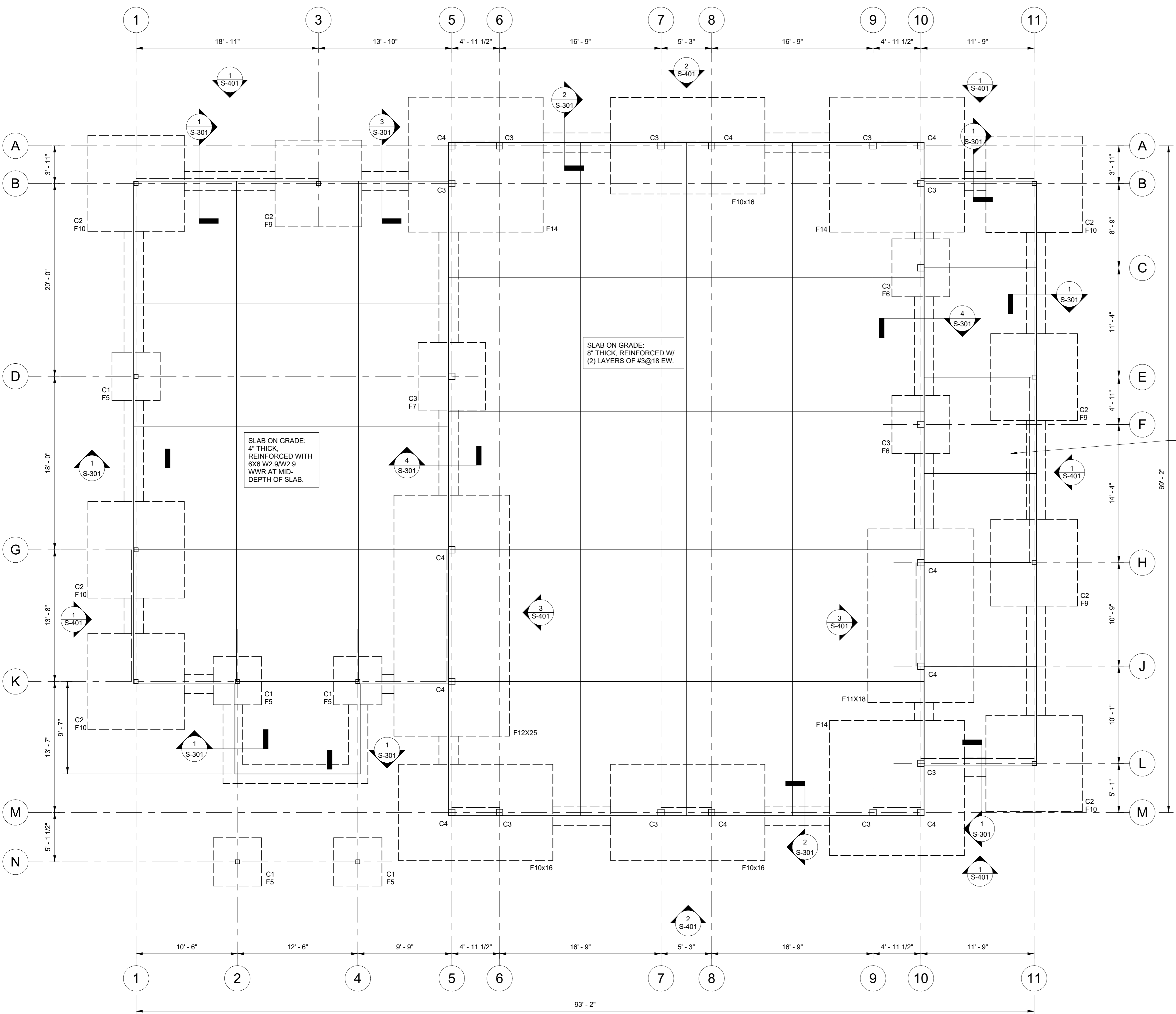
ISSUE DATE: 09.18.2024

DRAWING TITLE:
**FOUNDATION
 AND FIRST
 FLOOR PLAN**

SHEET NUMBER:

S-201

EDITION:
 Page 7 of 20 PERMIT - BID



SLAB ON GRADE:
 8" THICK, REINFORCED W/
 (2) LAYERS OF #3@18 EW.

SLAB ON GRADE:
 4" THICK,
 REINFORCED WITH
 6X6 W2.9/W2.9
 WWR AT MID-
 DEPTH OF SLAB.

SLAB ON GRADE:
 4" THICK, REINFORCED
 WITH 6X6 W2.9/W2.9
 WWR AT MID-DEPTH OF SLAB.



1 S-201 - Foundation and First Floor Plan
 3/16" = 1'-0"

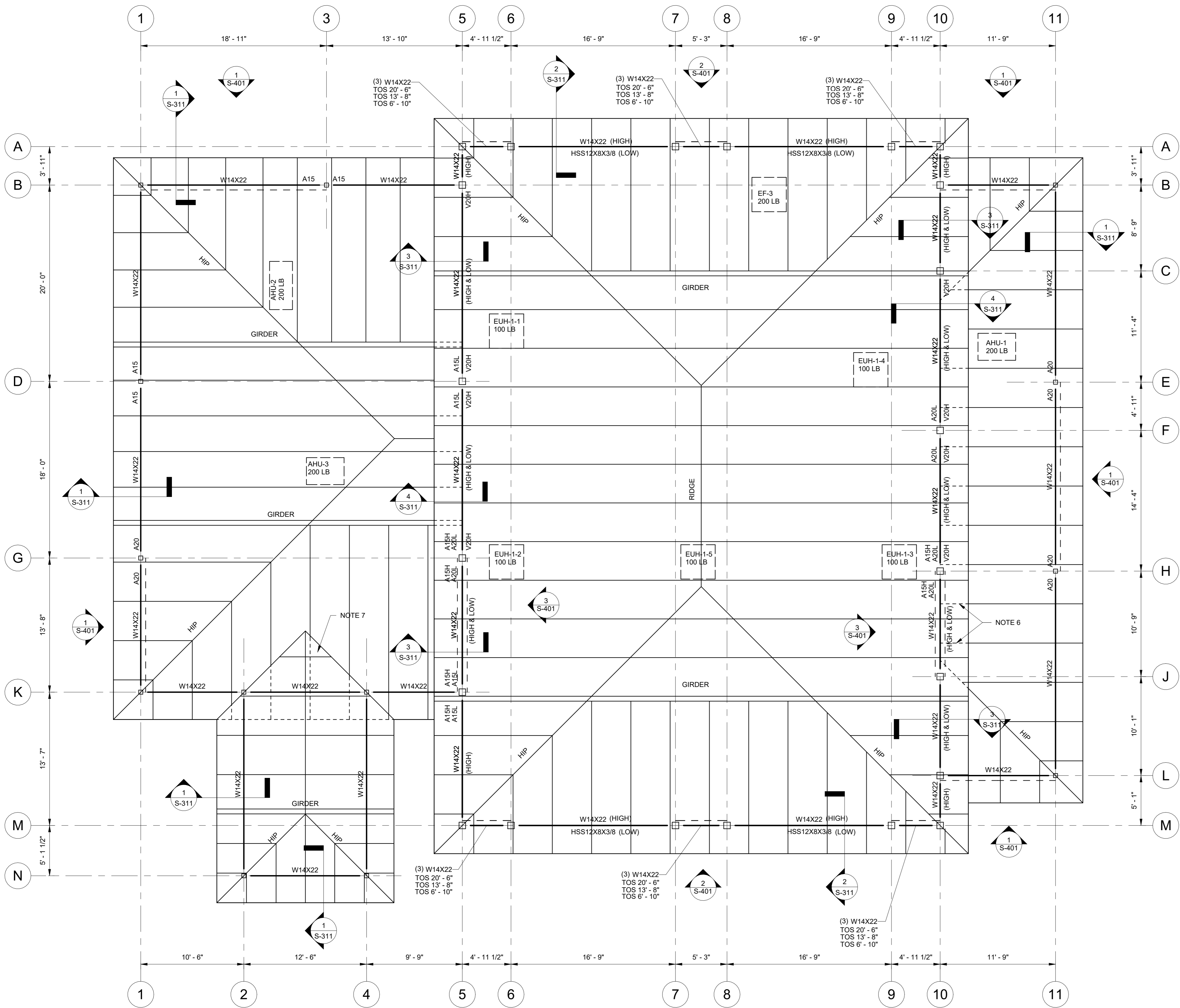
1. FINISH FLOOR (SLAB ON GRADE) ELEVATION 0'-0". UNLESS NOTED ON PLAN.
2. TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED ON PLAN.
3. STEP FOOTINGS DOWN BELOW UNDERGROUND UTILITIES ENTERING THE BUILDING. CONTRACTOR TO COORDINATE LOCATIONS OF UNDER GROUND UTILITIES ENTERING THE BUILDING WITH THE SITE/CIVIL DRAWINGS. STEP STRIP FOOTINGS PER THE TYPICAL DETAIL.
4. FOR SLAB RECESS, SEE ARCHITECTURAL DRAWINGS.
5. GENERAL CONTRACTOR SHALL COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.
6. FOOTING STEP ELEVATIONS AND LOCATION ARE APPROXIMATE. GENERAL CONTRACTOR SHALL COORDINATE ALL FOOTING STEPS WITH CIVIL, PLUMBING AND UTILITY DRAWINGS.
7. PROVIDE #5x6'-0" AT ALL RE-ENTRANT CORNERS AND DISCONTINUOUS CONTROL JOINTS.
8. COORDINATE DRAIN LOCATIONS AND SLOPE IN SLAB ON GRADE WITH ARCHITECTURAL DRAWINGS.

Structural Column Schedule			
Designation	Size	Base Plate and Anchor Rods	Notes
C1	HSS5X5X1/4	PL3/4X11X0'-11" W/ (4) 3/4"Ø ANCHOR RODS EMBEDDED 9"	
C2	HSS5X5X3/8	---	1
C3	HSS8X8X3/8	PL1X16X1'-4" W/ (4) 1"Ø ANCHOR RODS EMBEDDED 10"	
C4	HSS8X8X3/8	---	1

1. SEE SHEET S-401 FOR BASE PLATE AND ANCHOR RODS.
2. PROVIDE 1 1/2" EDGE DISTANCE FOR 3/4"Ø ANCHORS AND 2" EDGE DISTANCE FOR ANCHORS GREATER THAN 3/4"Ø.

Structural Foundation Schedule						
Mark	Length	Width	Depth	Bottom Reinforcement	Top Reinforcement	Notes
F5	5'-0"	5'-0"	1'-4"	#6SEW	#6SEW	
F6	6'-0"	6'-0"	6'-0"	7#SEW	7#5EW	
F7	7'-0"	7'-0"	1'-4"	8#SEW	8#5EW	
F9	9'-0"	9'-0"	2'-0"	10#6EW	10#6EW	
F10	10'-0"	10'-0"	2'-0"	11#6EW	11#6EW	
F10x16	10'-0"	16'-0"	2'-0"	#6@10 EW	#6@10 EW	
F11x18	11'-0"	18'-0"	2'-0"	#6@10 EW	#6@10 EW	
F12x25	12'-0"	25'-0"	2'-0"	#6@10 EW	#6@10 EW	
F14	14'-0"	14'-0"	2'-0"	#6@10 EW	#6@10 EW	

#	Date	Description



1 S-211 - Roof Framing Plan
 3/16" = 1'-0"

- TRUSS BEARING ELEVATION:
 A. TYPICAL 10'-0"
 B. BETWEEN COLUMN LINE 5 AND 10 20'-6"
- ROOF SYSTEM: 1 1/2" ROOF DECK ON PRE-FABRICATED COLD FORMED METAL ROOF TRUSSES ON STEEL BEAMS. TRUSS SPACING IS 4'-0" MAXIMUM. SEE GENERAL NOTES.
- TRUSS ROOF SYSTEM:
 A. TRUSS LAYOUT SHOWN FOR GENERAL INTENT. EXACT LAYOUT OF COLD-FORMED STEEL TRUSSES TO BE DETERMINED BY THE TRUSS MANUFACTURER AND SUBMITTED TO THE STRUCTURAL ENGINEER.
 B. SEE GENERAL NOTES AND TYPICAL DETAILS FOR DEAD LOAD, LIVE LOAD, AND WIND LOAD ON TRUSSES.
 C. TRUSS TEMPORARY AND PERMANENT LATERAL BRACING MUST BE DESIGNED BY THE TRUSS MANUFACTURER.
- HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER. FOR WEIGHT OF PIPING AND ANY ADDITIONAL TRUSS REINFORCING, SEE TYPICAL DETAIL.
- EQUIPMENT SHOWN TO BE SUPPORTED BY TRUSS BOTTOM CHORDS. LOCATIONS AND WEIGHTS SHOWN ARE APPROXIMATE. THE GENERAL CONTRACTOR SHALL COORDINATE AND VERIFY THE SIZE, WEIGHT AND LOCATION OF ALL MECHANICAL UNITS WITH THE TRUSS SUPPLIER. THE EQUIPMENT IS INTENDED TO BE HUNG FROM THE TRUSS TOP CHORDS. SEE MECHANICAL DRAWINGS FOR UNIT SUPPORT. DO NOT SCALE FROM THESE DRAWINGS.
- TRUSS SUPPLIER AND GENERAL CONTRACTOR TO COORDINATE TRUSS LOCATIONS TO AVOID BRACE.
- PROVIDE CONTINUOUS DECKING UNDER TRUSS OVERFRAMING.

STEEL BEAM LEGEND

BEAM AXIAL LOAD (KIPS)
 BEAM SIZE
 # OF HEADED STUDS
 BEAM CAMBER
 EMBED PL - SEE SCHEDULE

BEAM SHEAR REACTION (KIPS)
 BEAM MOMENT REACTION (KIP-FT)
 INDICATES MOMENT CONNECTION - SEE TYPICAL DETAILS

NOTES:
 1. REACTIONS NOTED ON PLAN ARE MAXIMUM LRFD FACTORED REACTIONS. SEE GENERAL NOTES AND TYPICAL DETAILS FOR CONNECTION DESIGN REQUIREMENTS.
 2. NOTED REACTIONS ACT CONCURRENTLY.
 3. NOTED MOMENT AND AXIAL REACTIONS ACT IN POSITIVE AND NEGATIVE DIRECTIONS.
 4. IF NO REACTIONS ARE PROVIDED, CONNECTION ENGINEER TO DESIGN CONNECTIONS FOR LISTED MINIMUM REACTIONS:
 A. SHEAR: 15 KIPS
 B. MOMENT: 30 KIP-FT. IF NO MOMENT CONNECTION SYMBOL IS SHOWN, DO NOT DESIGN CONNECTION FOR MOMENT.
 C. AXIAL: IF NO AXIAL LOAD IS PROVIDED, STRUCTURAL INTEGRITY REQUIREMENTS PER FBC 1615.3.2.2 APPLY.
 5. "H" OR "L" AFTER A REACTION INDICATES THAT THE REACTION OCCURS AT EITHER THE HIGH OR LOW BEAM, RESPECTIVELY.
 6. IF NO CAMBER IS LISTED, ORIENT NATURAL BEAM CAMBER UPWARD.

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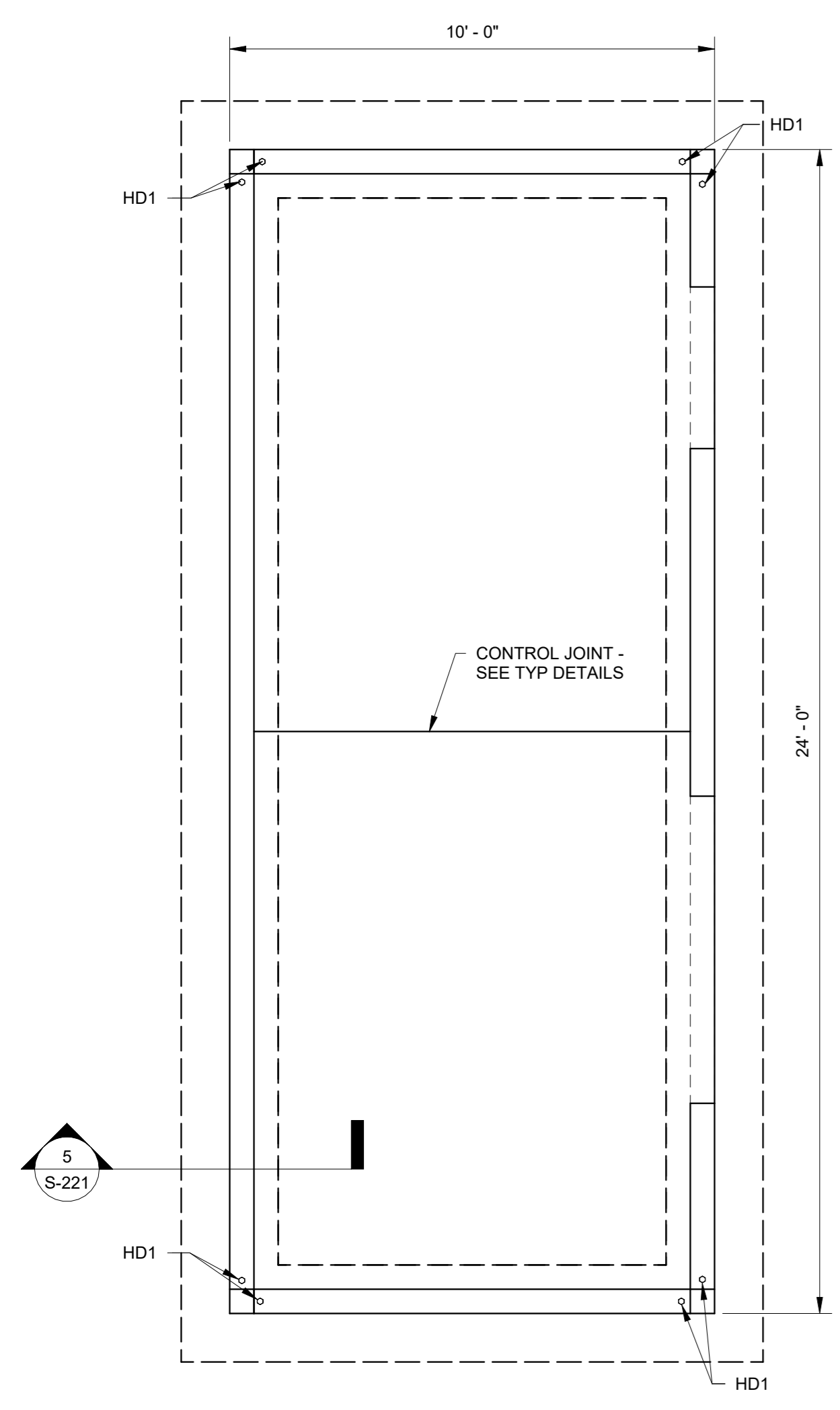
**FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION**
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

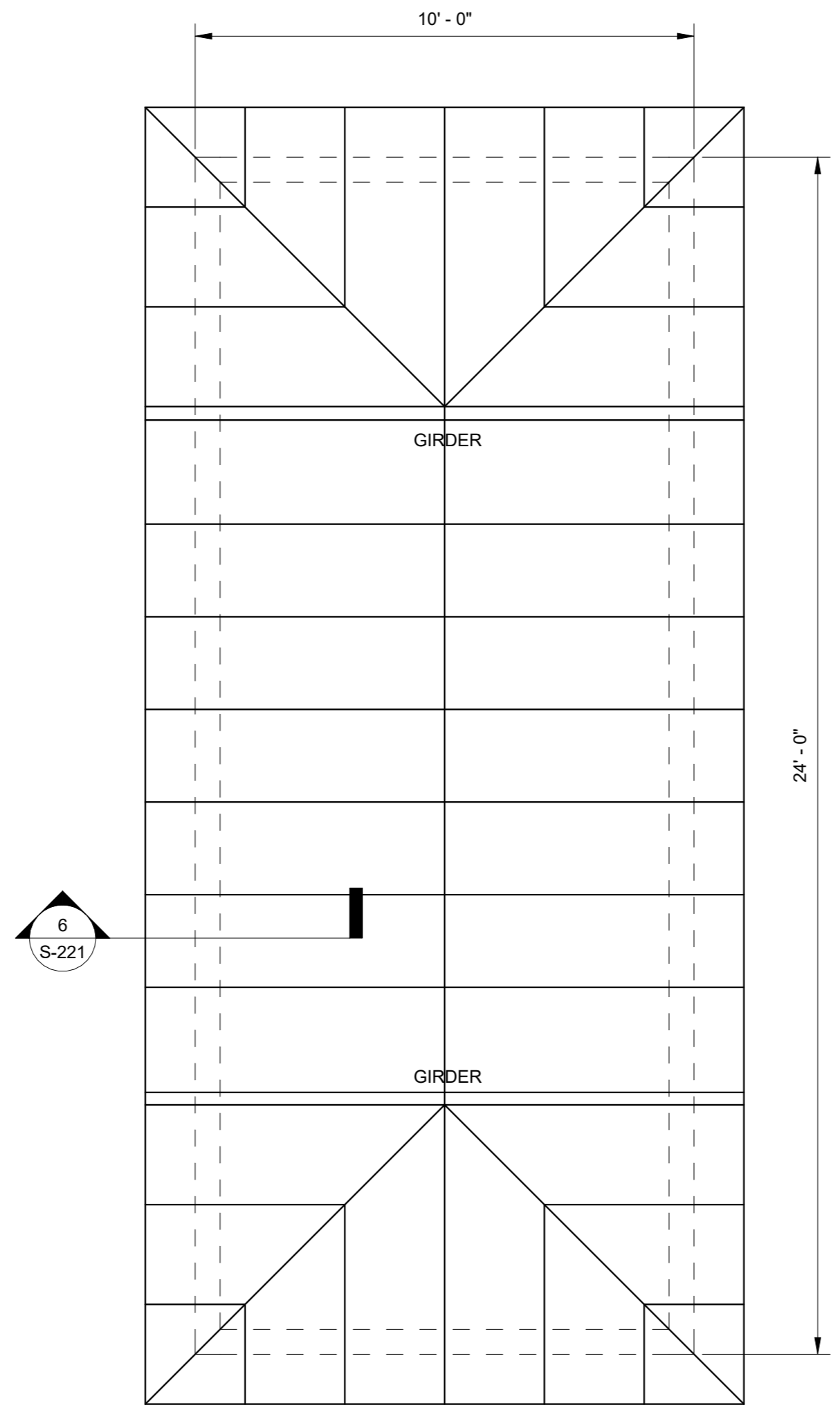
#	Date	Description

PROJECT NO: 23.014
 ISSUE DATE: 09.18.2024
 DRAWING TITLE:
**PUMP HOUSE
 PLANS AND
 SECTIONS**

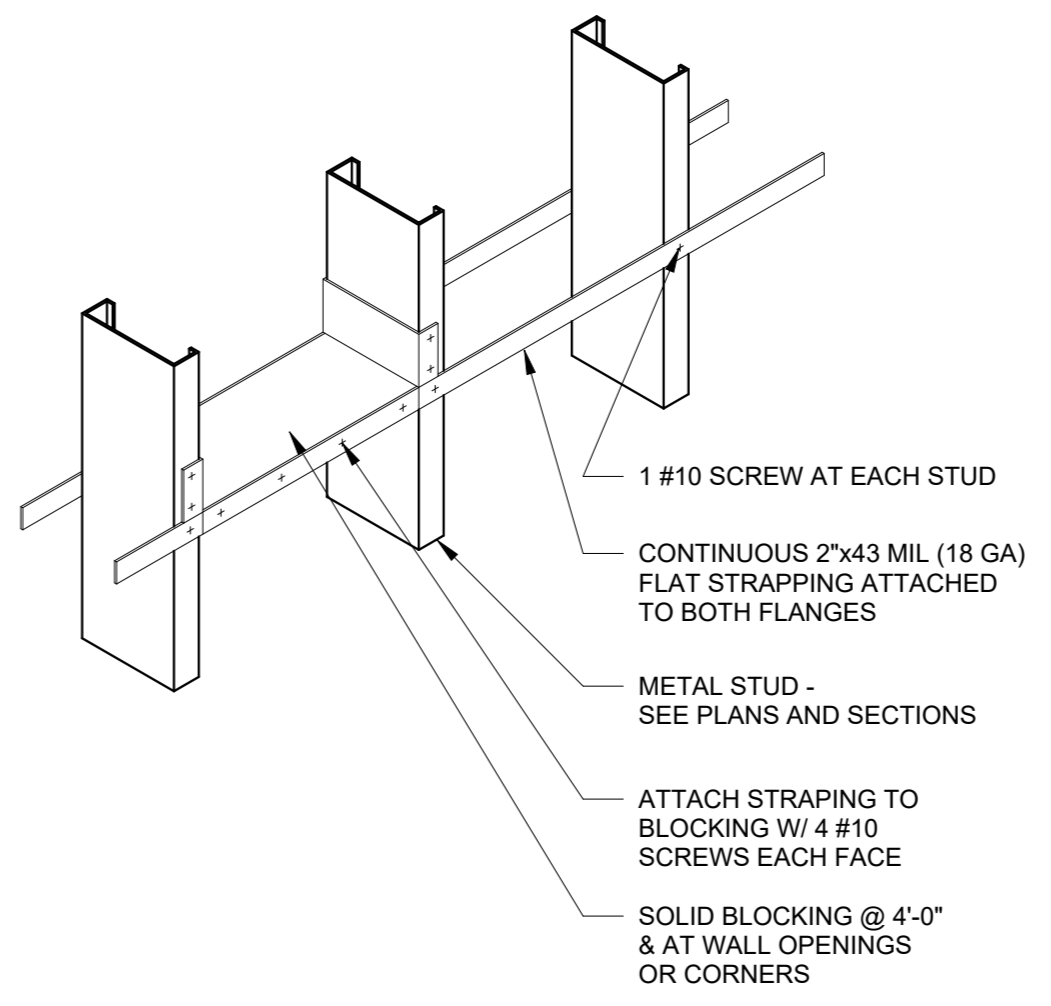
SHEET NUMBER:
S-221
 EDITION:
 Page 1 of 2 PERMIT - BID



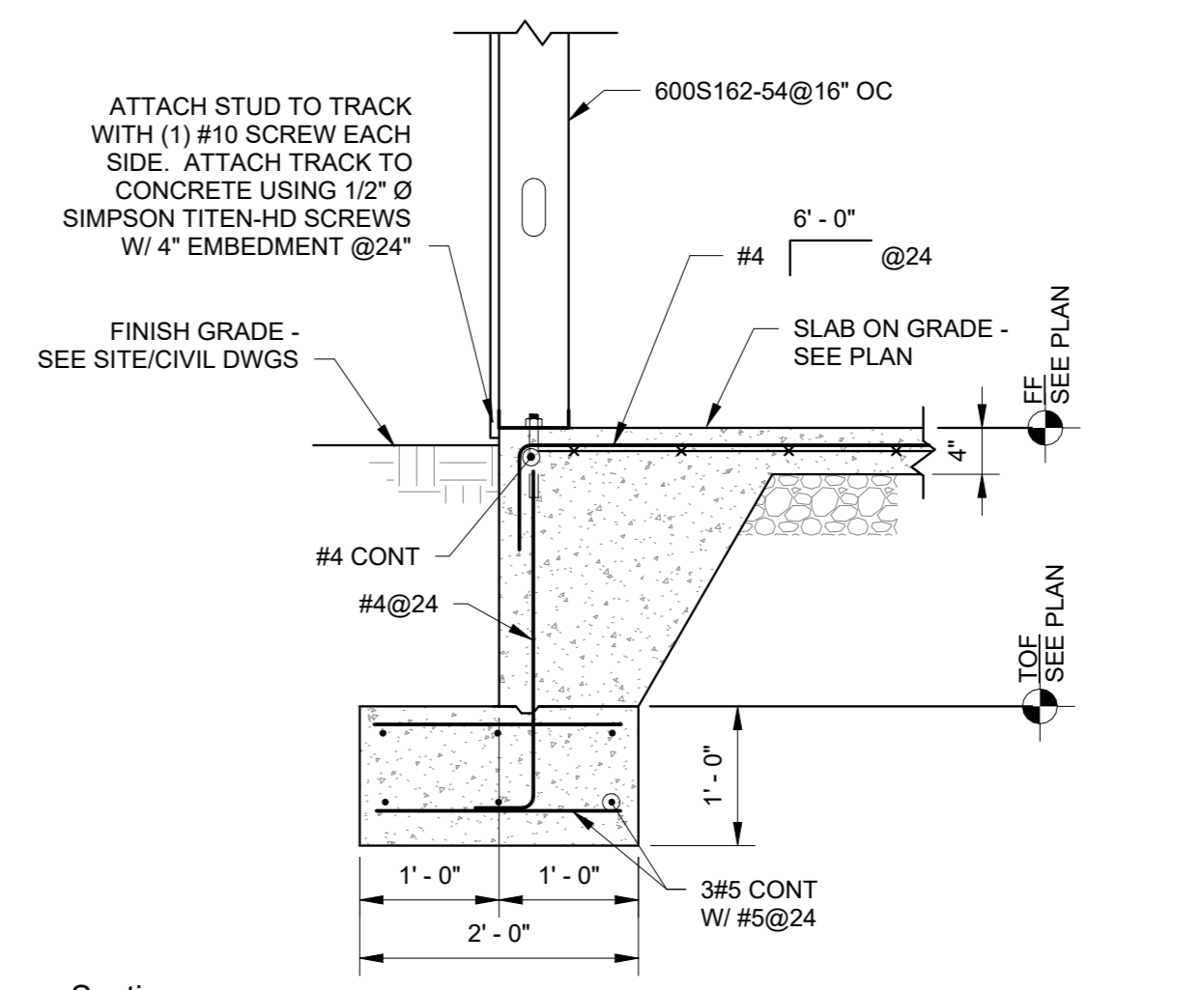
- 1 Pump Room Foundation Plan**
 3/8" = 1'-0"
- FINISH FLOOR (SLAB ON GRADE) ELEVATION 0'-0", UNLESS NOTED
 - TOP OF FOOTING ELEVATION -2'-0" BELOW FINISH FLOOR, UNLESS NOTED.
 - SLAB ON GRADE: 4" THICK CONCRETE, REINFORCED WITH 6X6 W2.9/W2.9 WWR. SEE GENERAL NOTES AND TYPICAL DETAILS.
 - HD1 ON PLAN INDICATES SHEAR WALL HOLD DOWN. HOLDDOWN TO BE SIMPSON S/HDU9-54. INSTALL PER MANUFACTURER'S INSTALLATION GUIDELINES. PROVIDE 10" EMBEDMENT FOR 7/8"Ø ANCHOR AND USE SIMPSON SET-3G ADHESIVE.
 - VERTICAL STUDS SHALL BE 100% END BEARING.
 - PROVIDE WALL BRACING, CONNECTION DETAILS, AND WINDOW HEADERS AS RECOMMENDED BY THE STUD MANUFACTURER FOR LOAD-BEARING STUDS.
 - VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH FILLET WELDS AT 6".



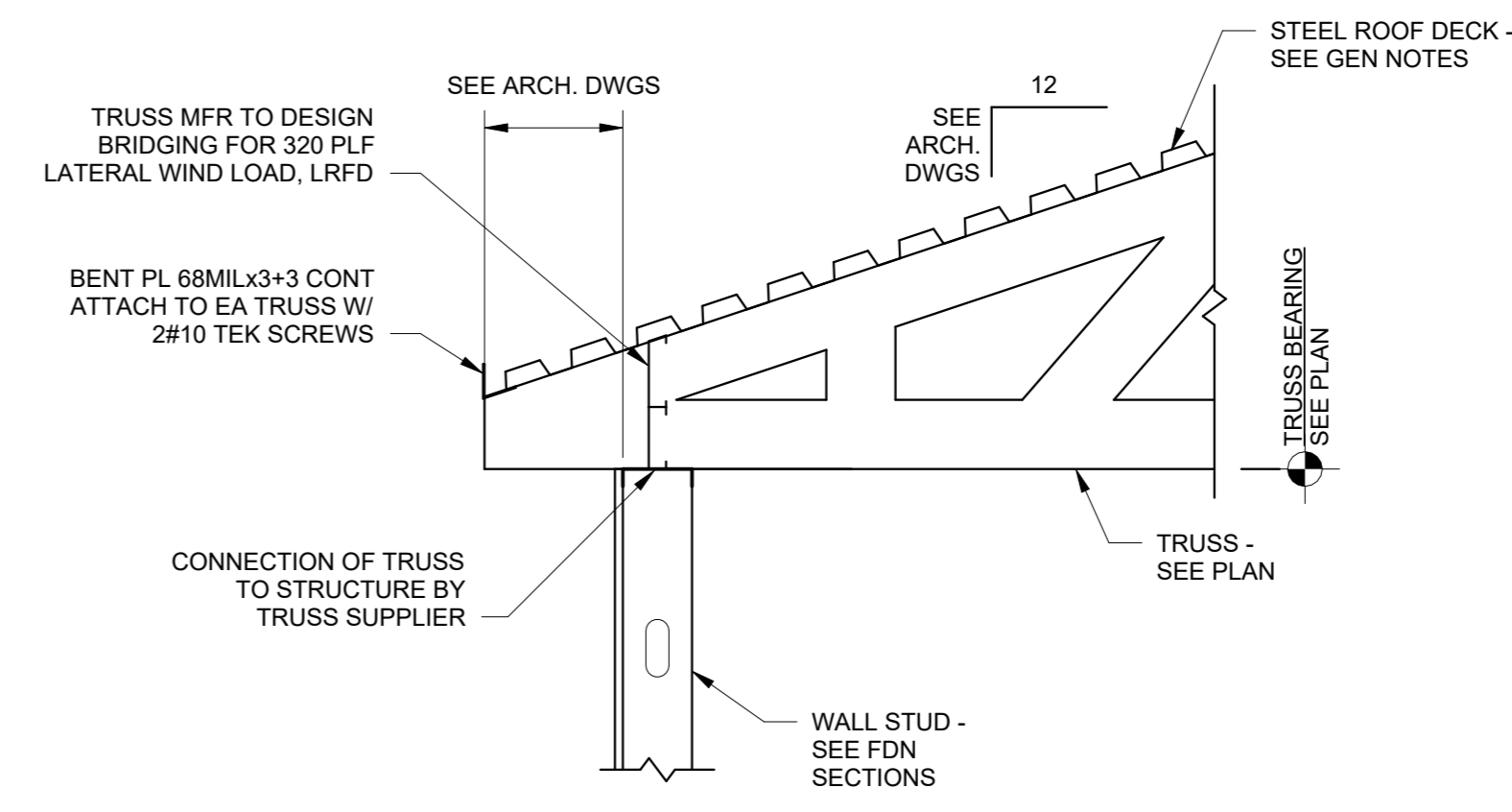
- 2 Pump Room Roof Framing Plan**
 3/8" = 1'-0"
- TRUSS BEARING (TOP OF WALL) ELEVATION 10'-0" ABOVE FINISH FLOOR, UNLESS NOTED.
 - ROOF SYSTEM: 1 1/2" ROOF DECK ON PRE-FABRICATED COLD FORMED METAL ROOF TRUSSES ON LOAD-BEARING STUD WALLS. TRUSS SPACING IS 4'-0" MAXIMUM. SEE GENERAL NOTES.
 - TRUSS ROOF SYSTEM:
 - TRUSS LAYOUT SHOWN FOR GENERAL INTENT. EXACT LAYOUT OF COLD-FORMED STEEL TRUSSES TO BE DETERMINED BY THE TRUSS MANUFACTURER AND SUBMITTED TO THE STRUCTURAL ENGINEER.
 - SEE GENERAL NOTES AND TYPICAL DETAILS FOR DEAD LOAD, LIVE LOAD, AND WIND LOAD ON TRUSSES.
 - TRUSS TEMPORARY AND PERMANENT LATERAL BRACING MUST BE DESIGNED BY THE TRUSS MANUFACTURER.
 - HANGER LOCATIONS FOR PIPING LARGER THAN 3 INCHES IN DIAMETER MUST BE COORDINATED BY THE GENERAL CONTRACTOR WITH THE TRUSS MANUFACTURER, FOR WEIGHT OF PIPING AND ANY ADDITIONAL TRUSS REINFORCING. SEE TYPICAL DETAIL.



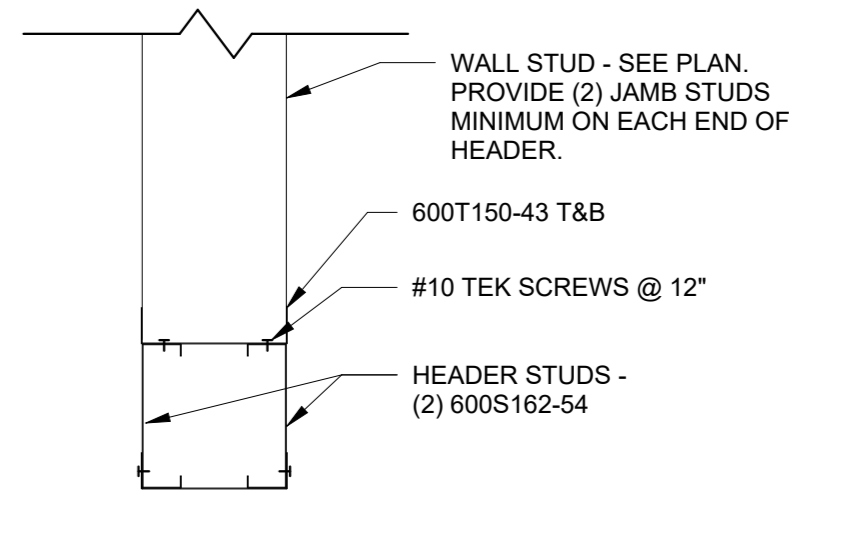
3 Wall Bridging Detail
 N.T.S.



5 Section
 3/4" = 1'-0"



6 Section
 3/4" = 1'-0"



4 Cold-Formed Header Detail
 N.T.S.

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#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

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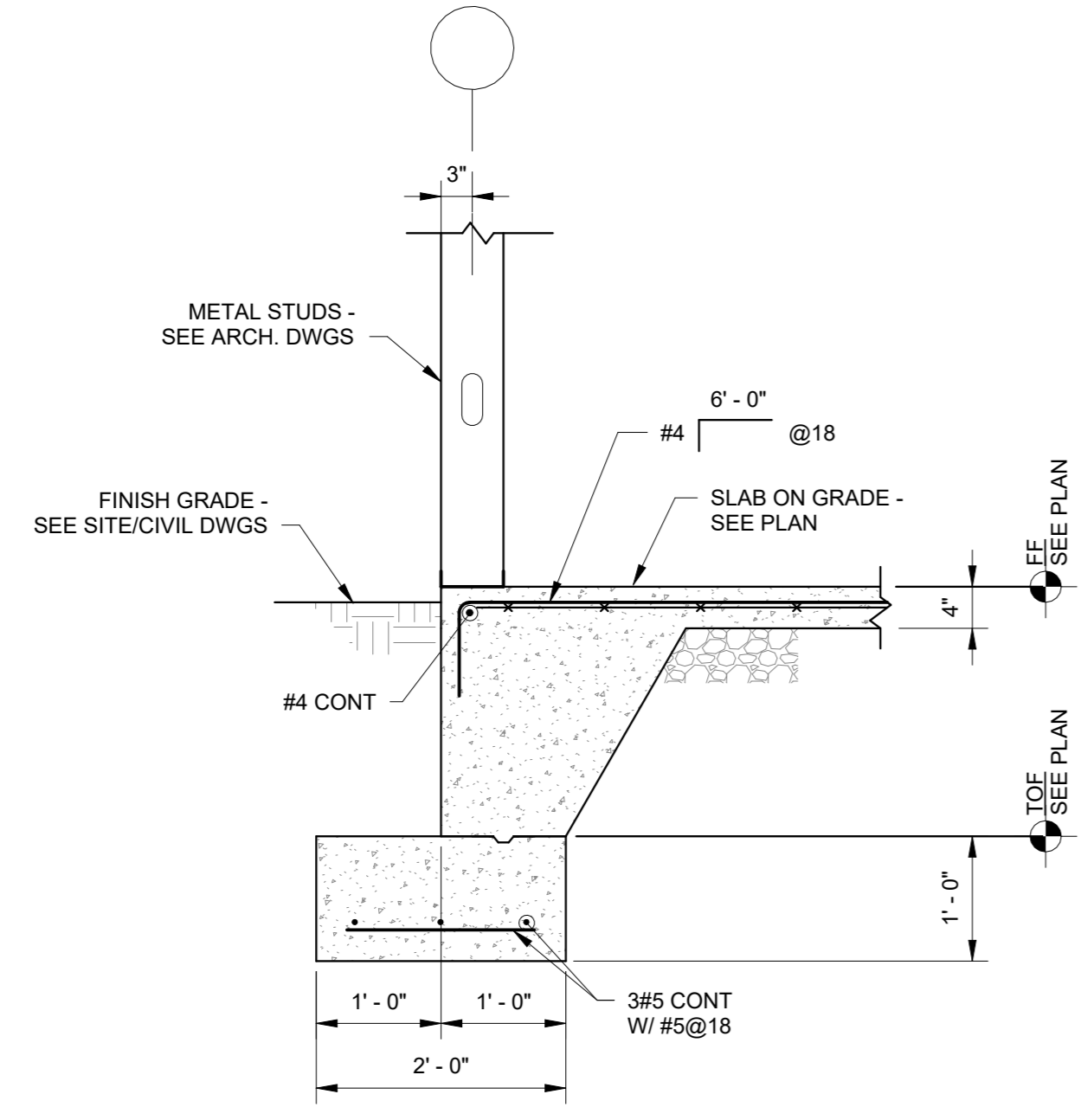
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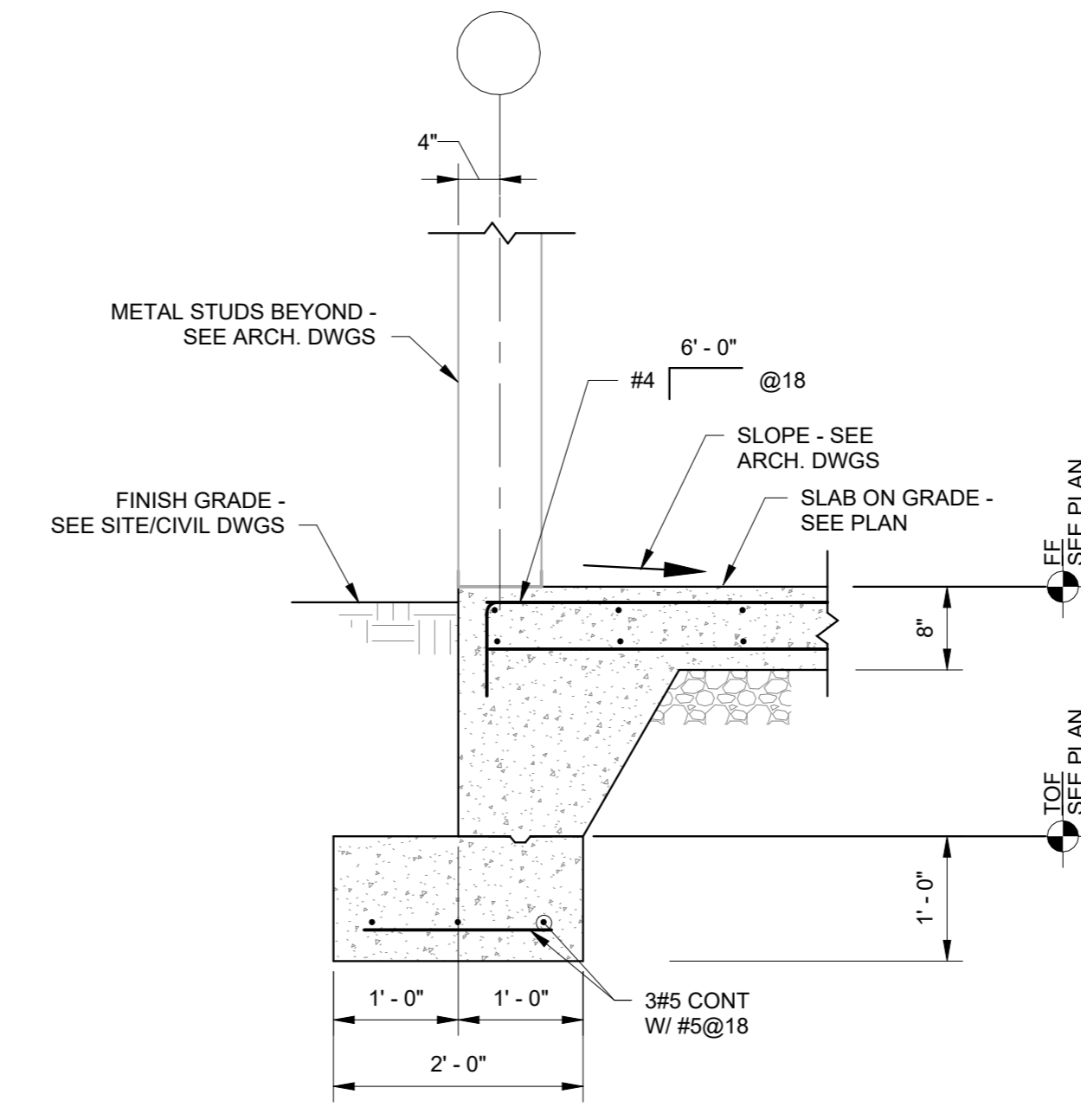
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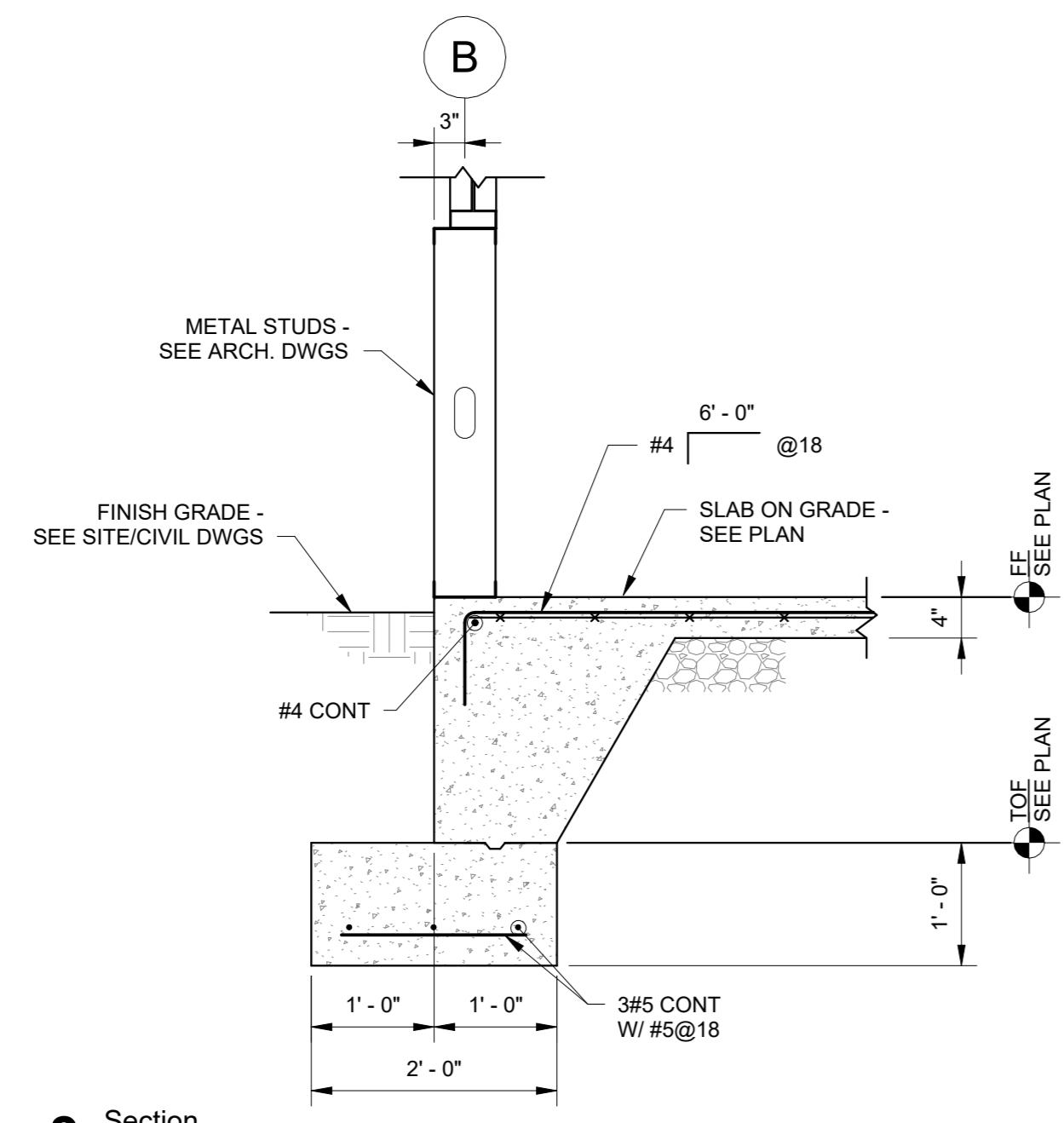
Page 4 of 10 PERMIT - BID



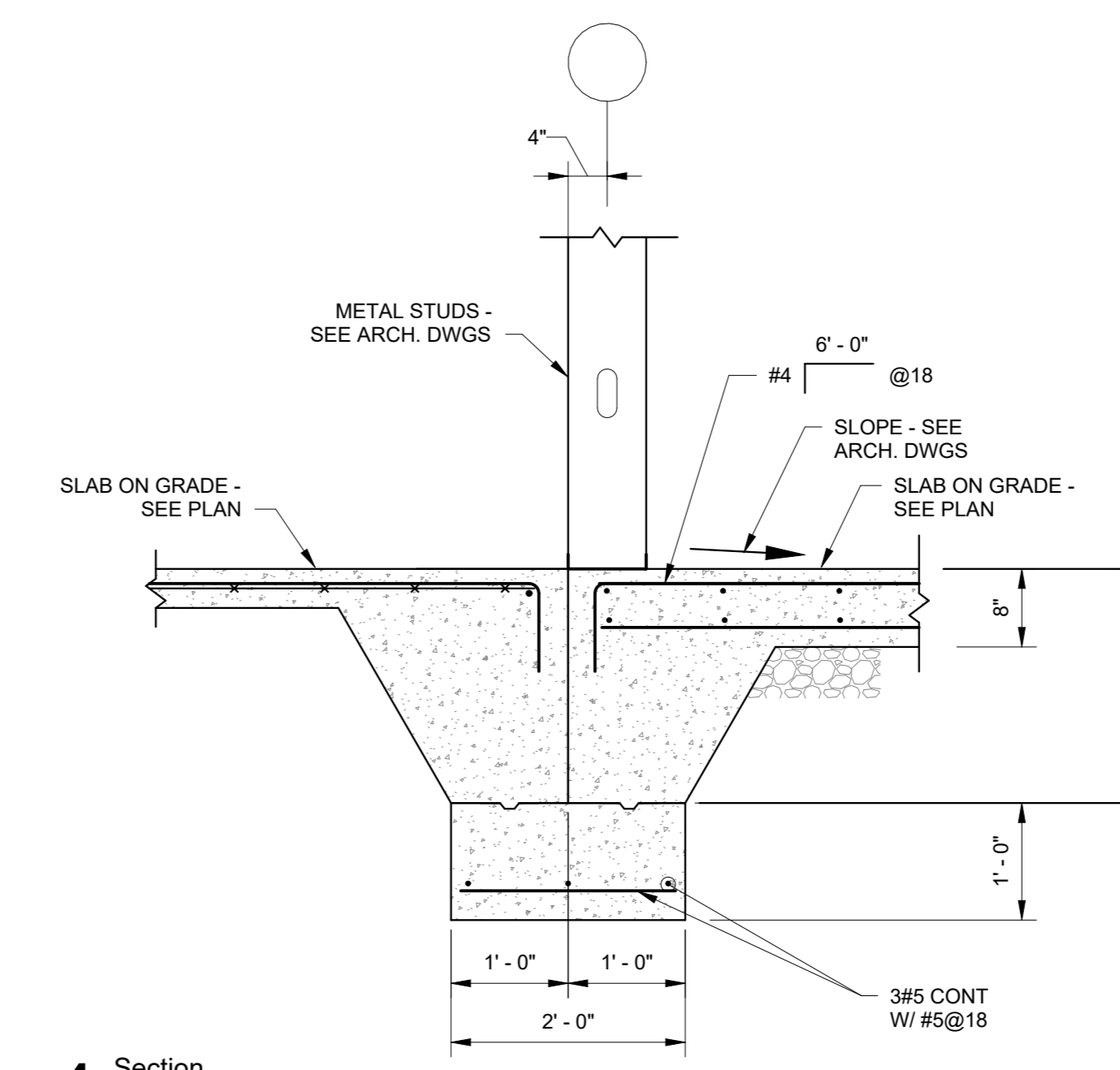
1 Section
 3/4" = 1'-0"



2 Section
 3/4" = 1'-0"



3 Section
 3/4" = 1'-0"



4 Section
 3/4" = 1'-0"

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 ISSUE DATE: 09.18.2024
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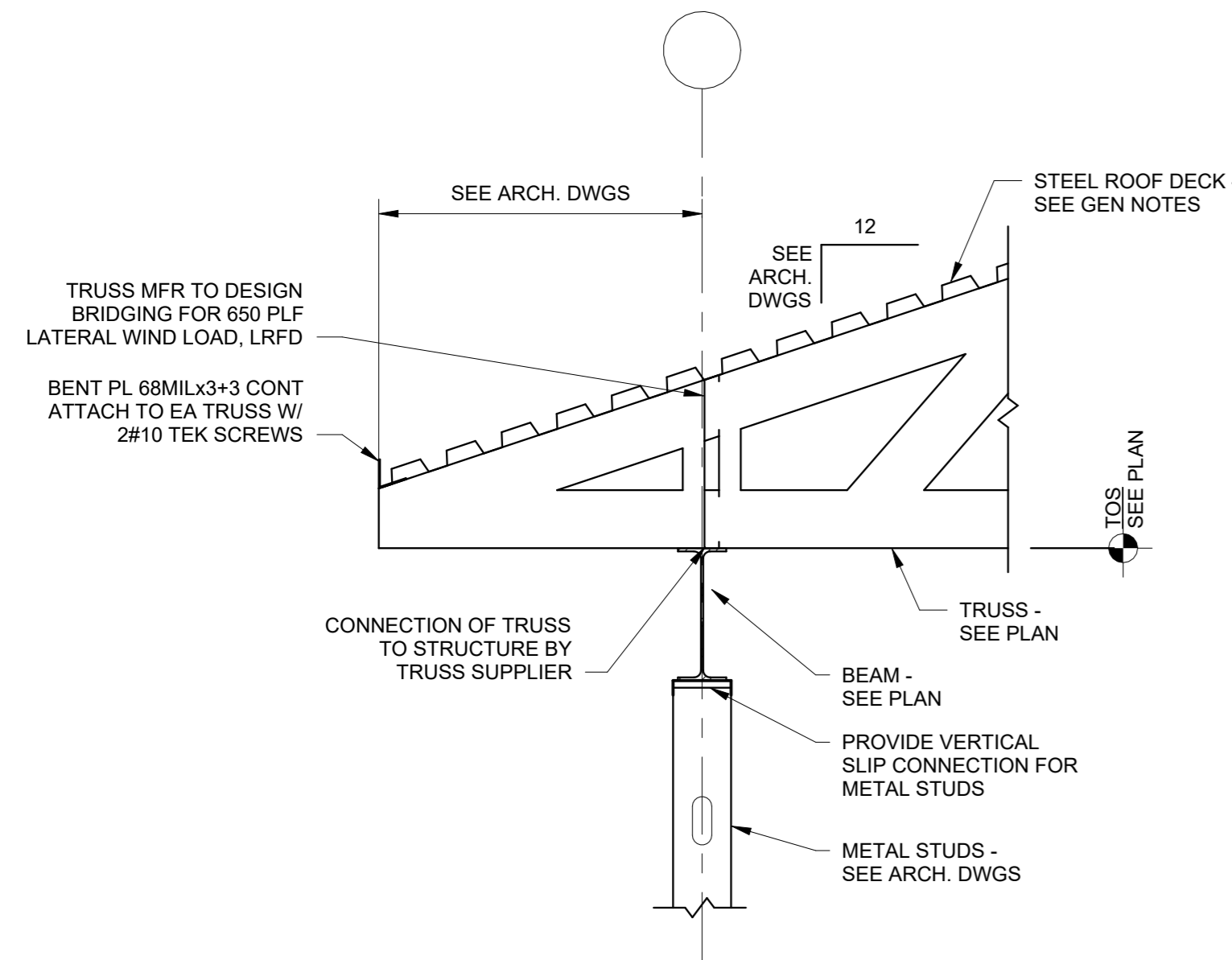
ROOF SECTIONS

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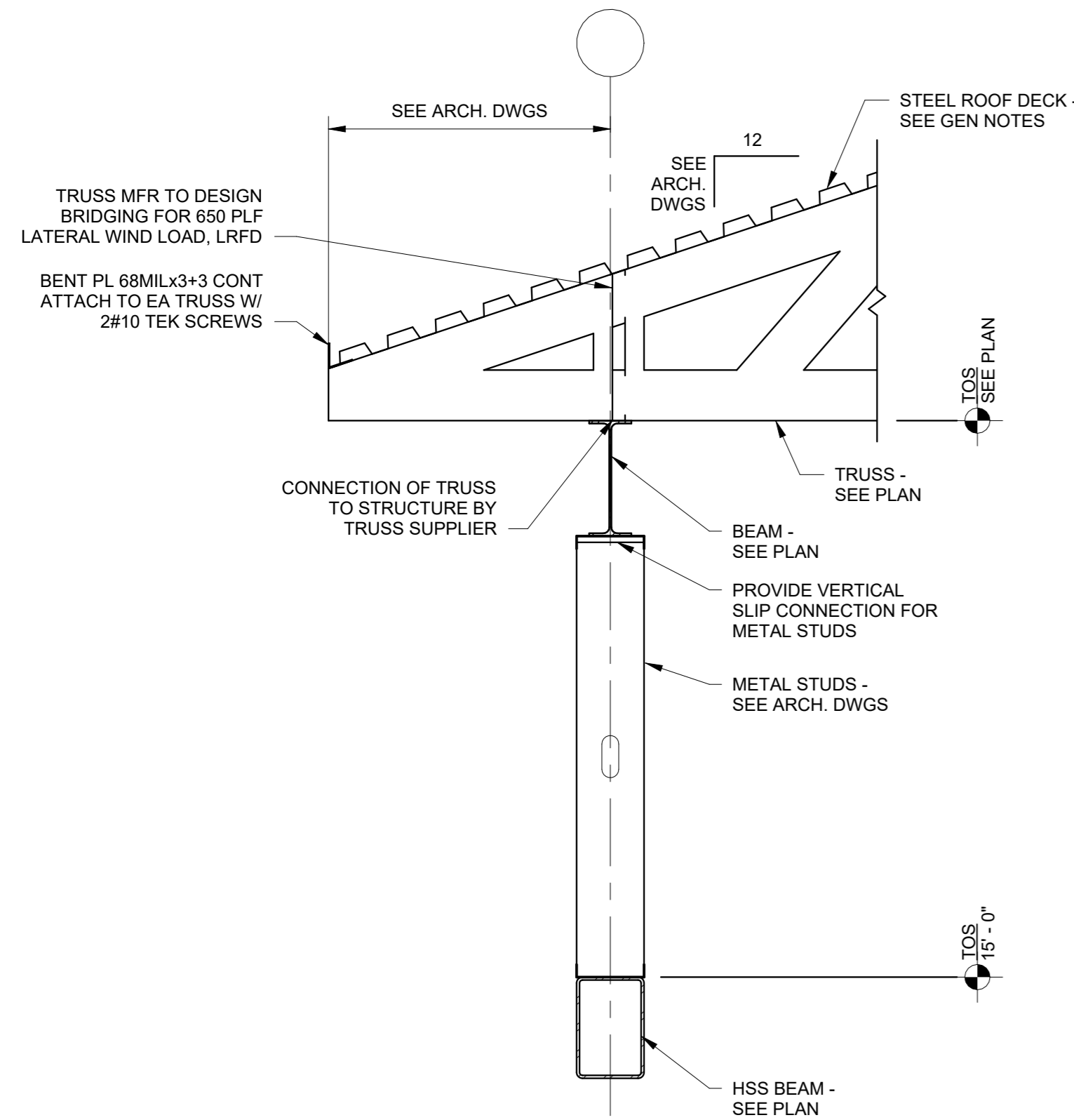
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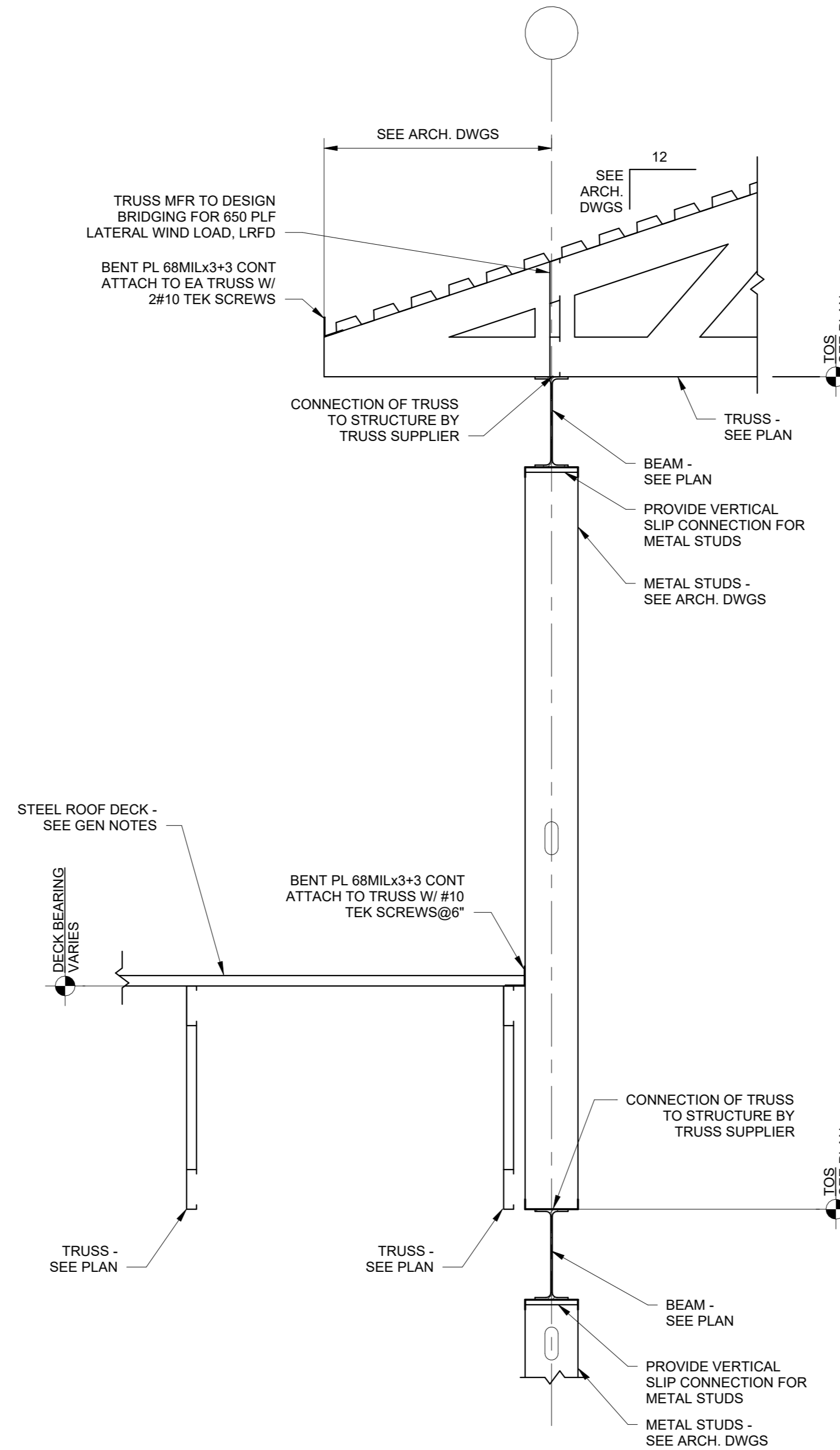
Page 10 of 10 PERMIT - BID



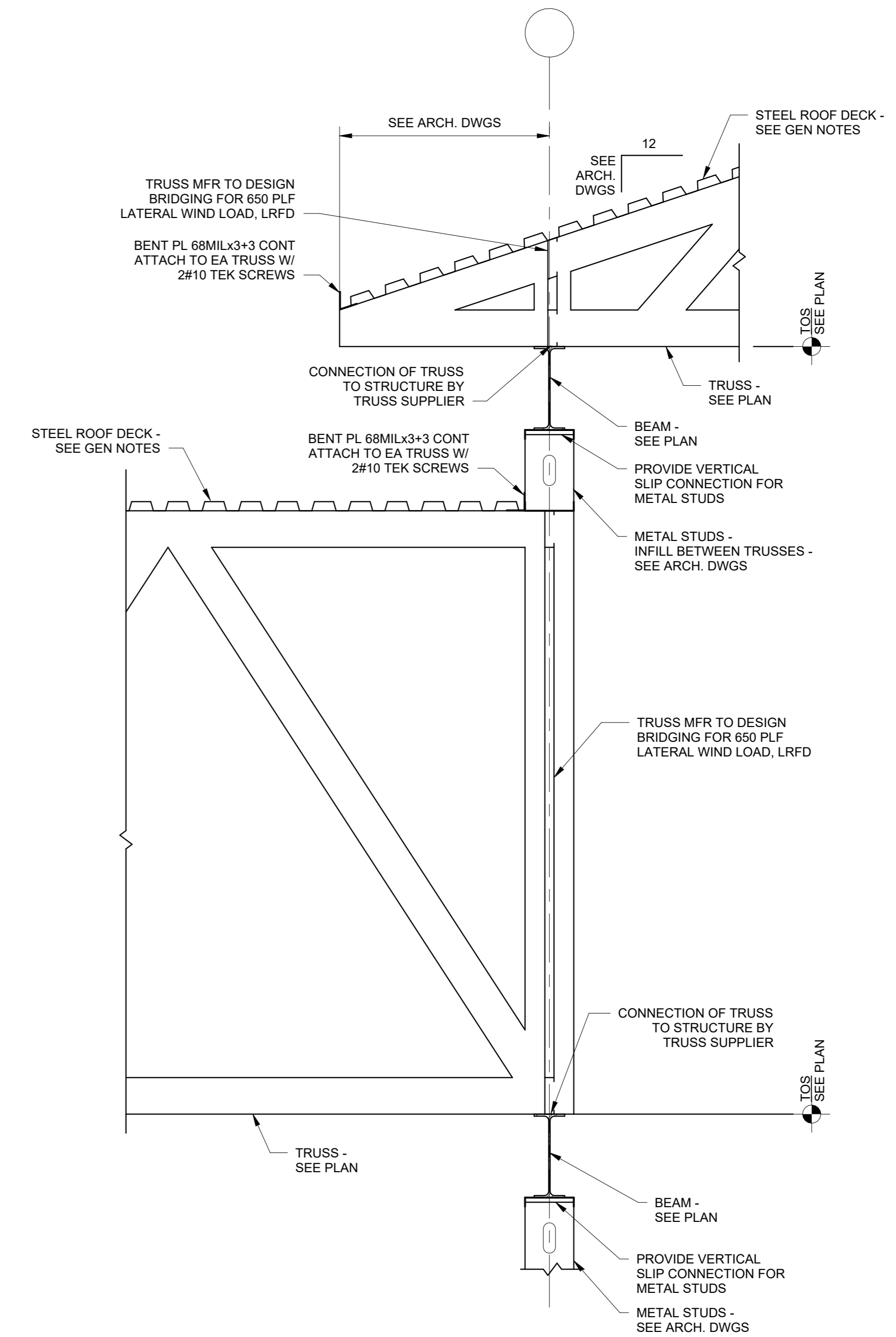
1 Section
 3/4" = 1'-0"



2 Section
 3/4" = 1'-0"



3 Section
 3/4" = 1'-0"



4 Section
 3/4" = 1'-0"

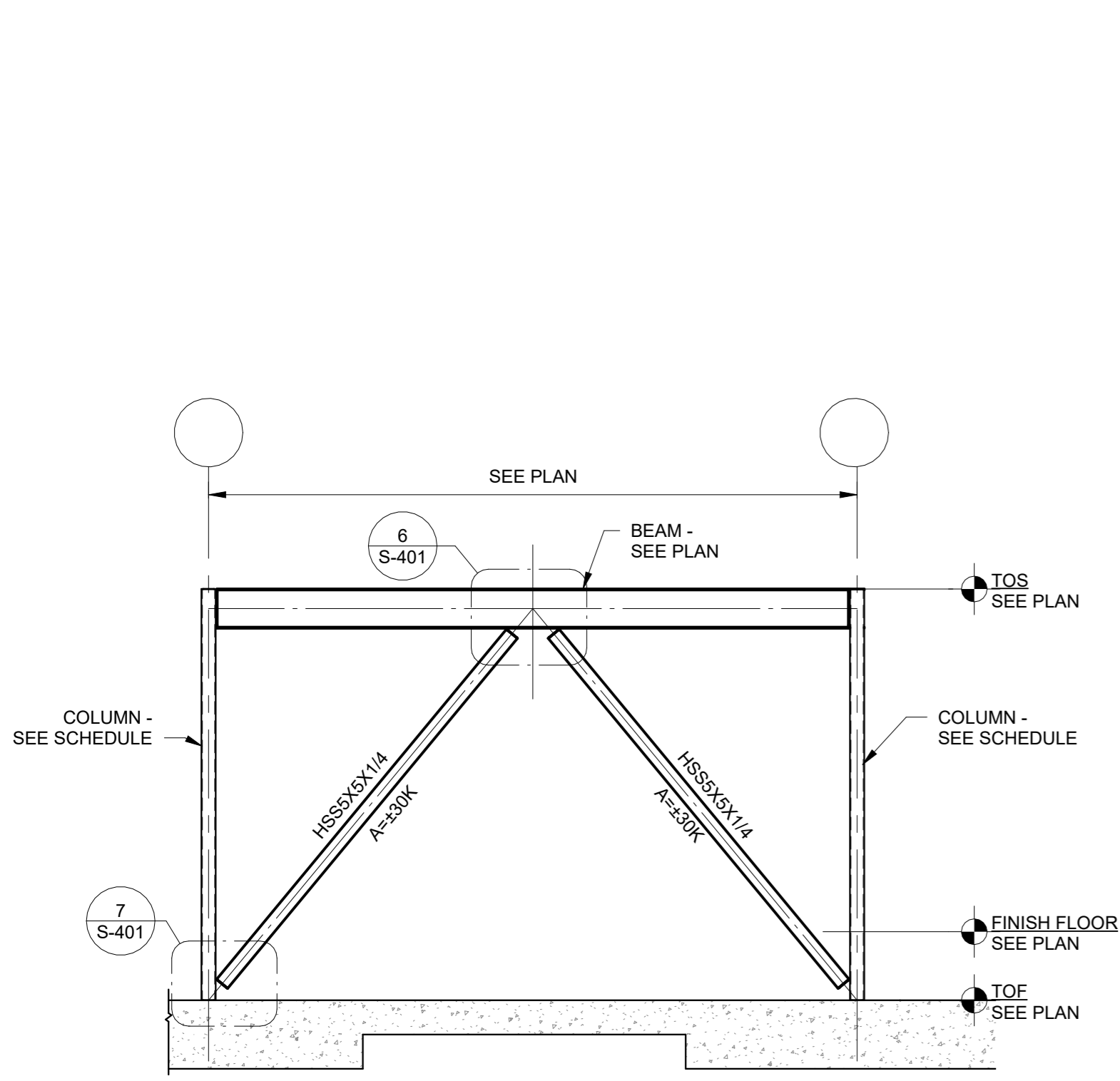
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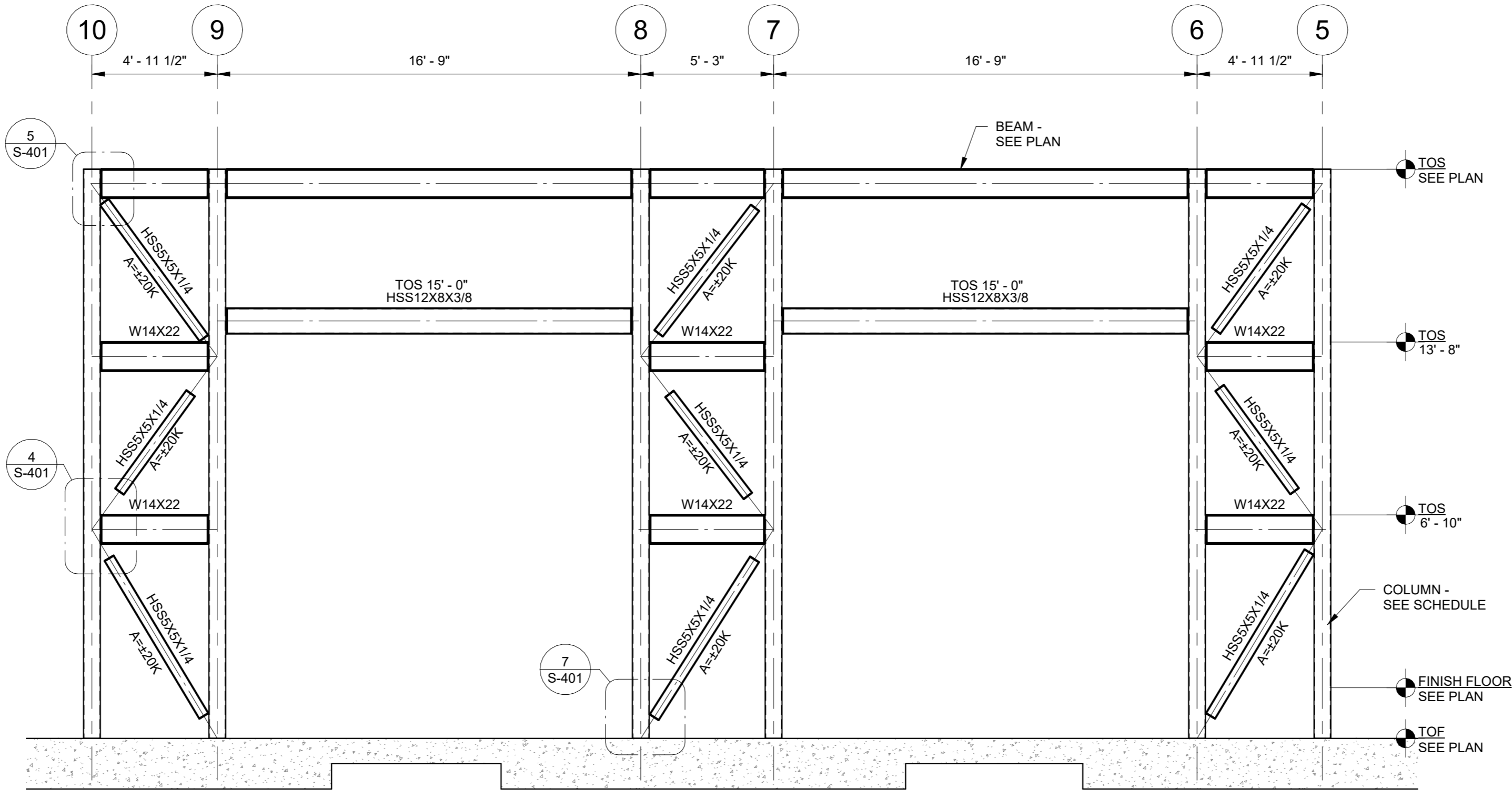
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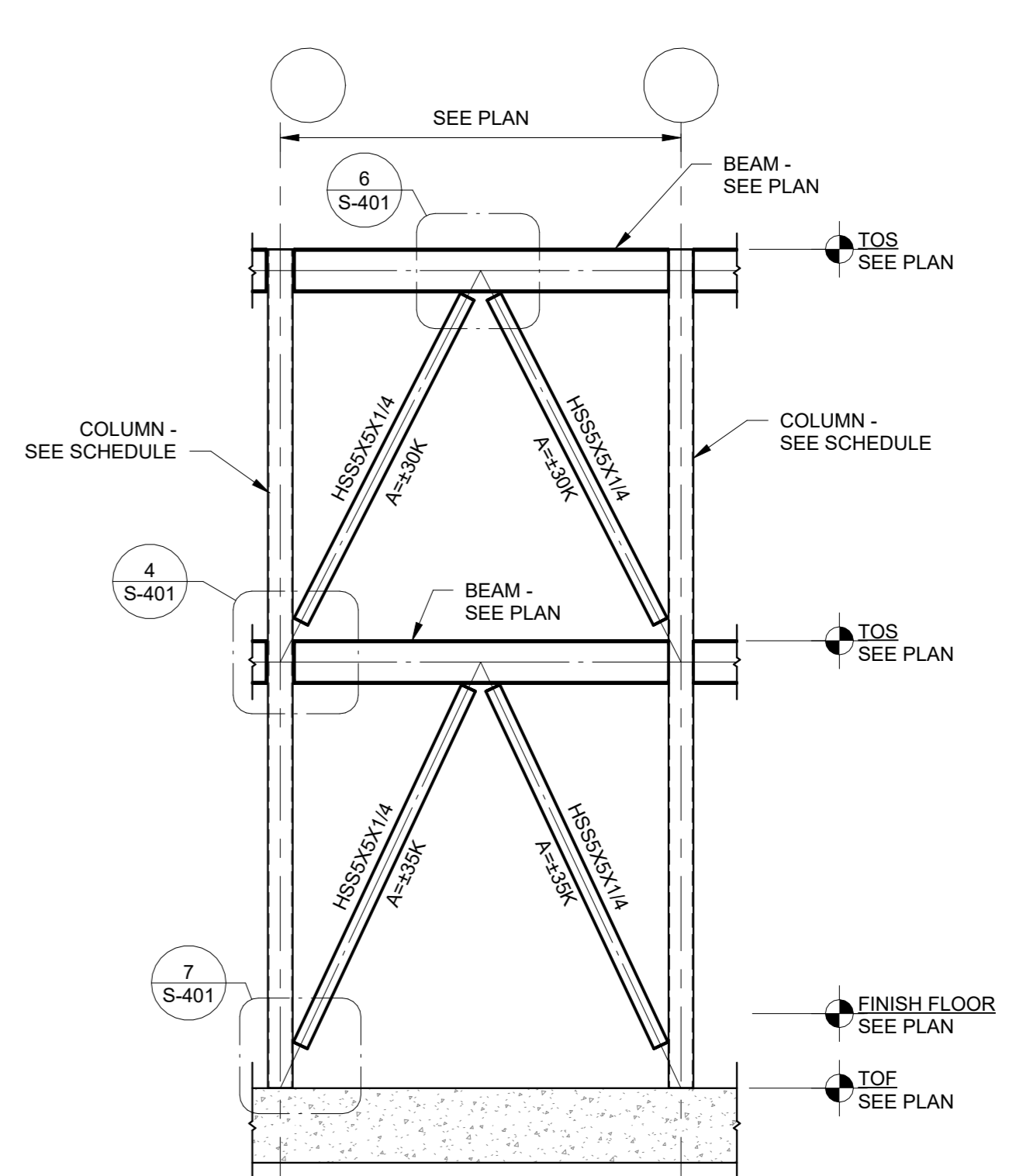
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 ISSUE DATE: 09.18.2024
 DRAWING TITLE: ELEVATIONS
 SHEET NUMBER: S-401
 EDITION:
 Page 7 of 24 PERMIT - BID



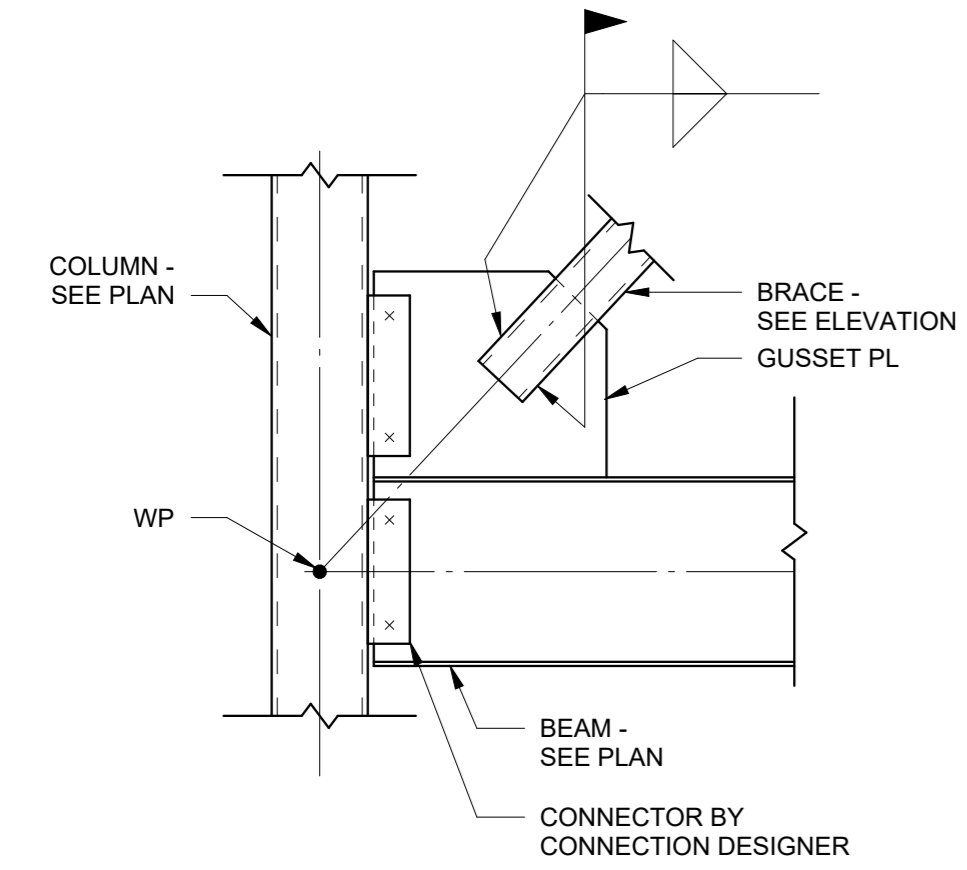
1 Elevation
 1/4" = 1'-0"



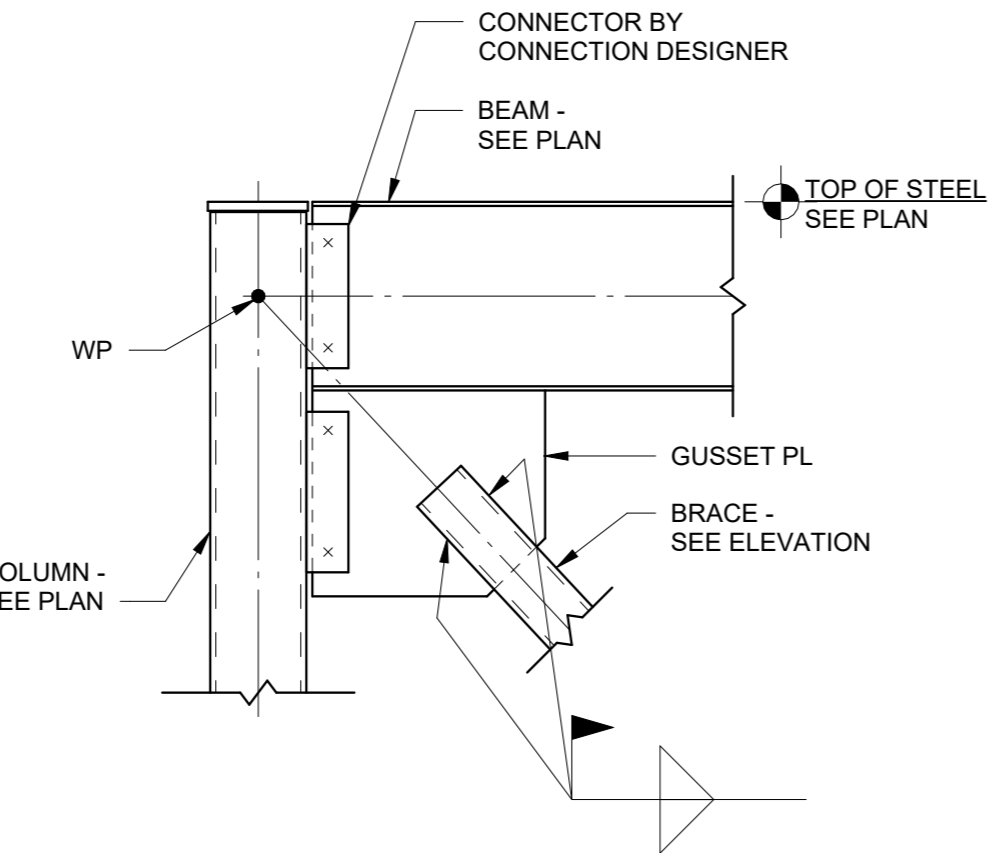
2 Elevation
 1/4" = 1'-0"



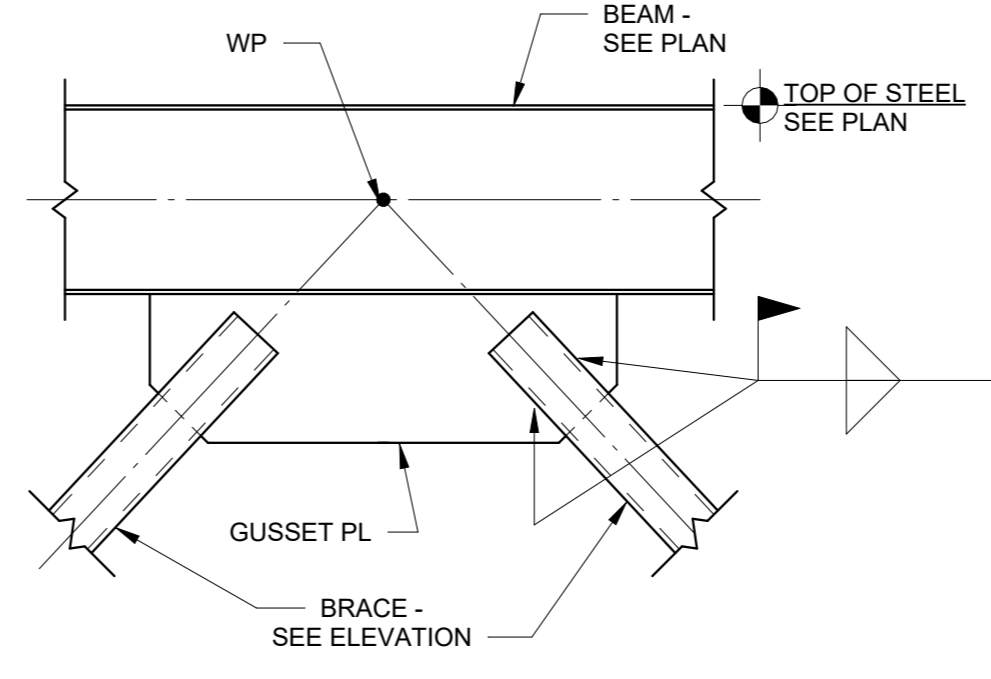
3 Elevation
 1/4" = 1'-0"



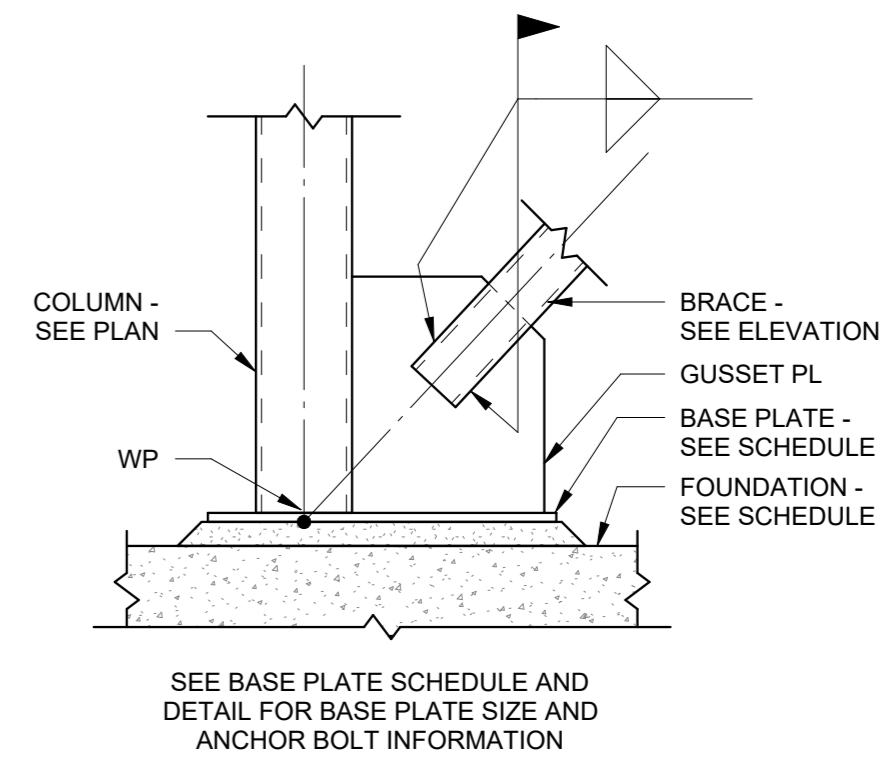
4 Vertical Bracing Detail
 N.T.S.



5 Vertical Bracing Detail
 N.T.S.



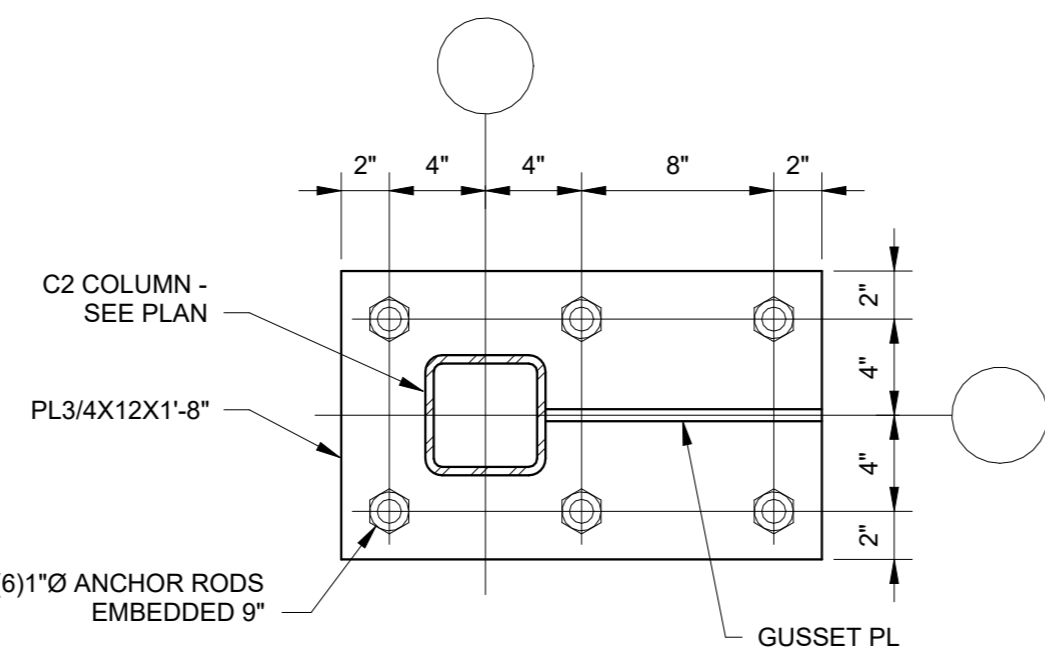
6 Vertical Bracing Detail
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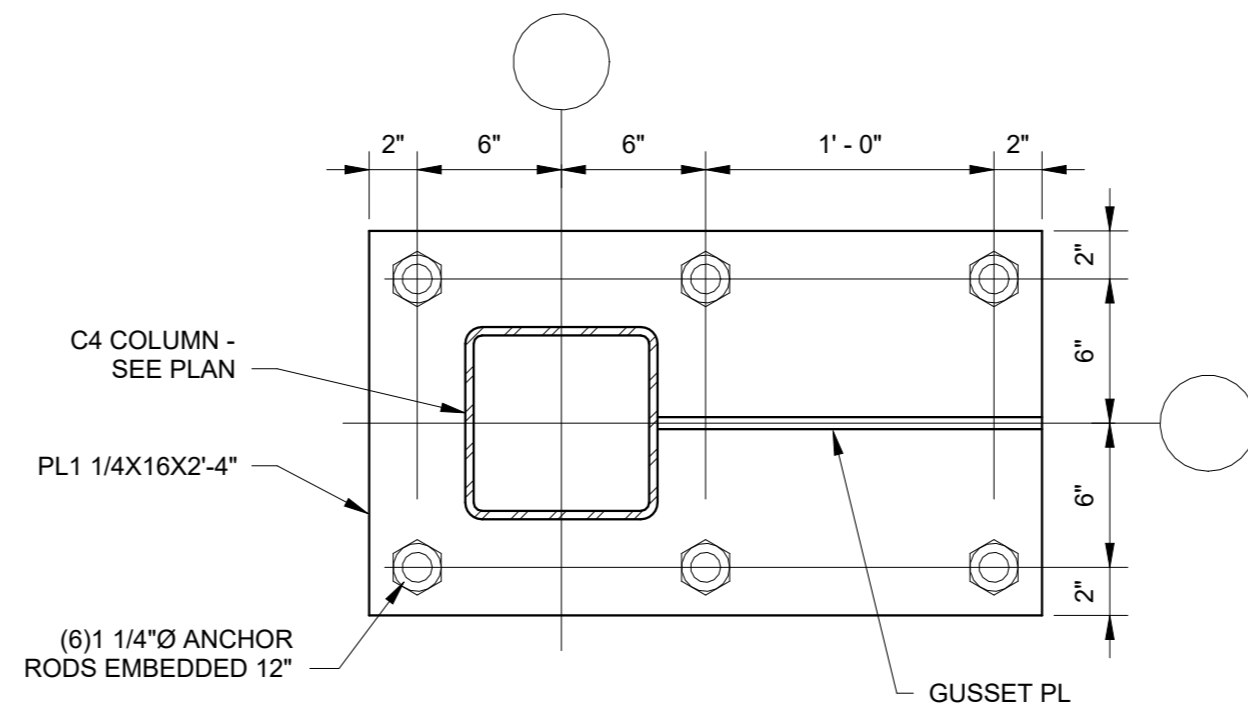
7 Vertical Bracing Detail
 N.T.S.

- ALL LOADS SHOWN ON PLAN AND IN ELEVATION ARE LRFD.
- ALL AXIAL LOADS SHOWN ON PLAN AND IN ELEVATIONS ACT IN POSITIVE AND NEGATIVE DIRECTION AND IN CONCURRENCE WITH OTHER NOTED LOADS OR REACTIONS.
- AXIAL LOADS SHOWN ON BEAMS ADJACENT TO VERTICAL BRACING OR MOMENT FRAME BAYS SHALL TRANSFER THROUGH BEAM CONNECTION.
- ALL DETAILS FOR VERTICAL BRACING ARE CONCEPTUAL. FINAL DESIGN TO BE PROVIDED BY CONTRACTOR. SEE GENERAL NOTES.
- MINIMUM GUSSET PLATE THICKNESS IS 3/8".

8 Vertical Bracing Notes
 N.T.S.



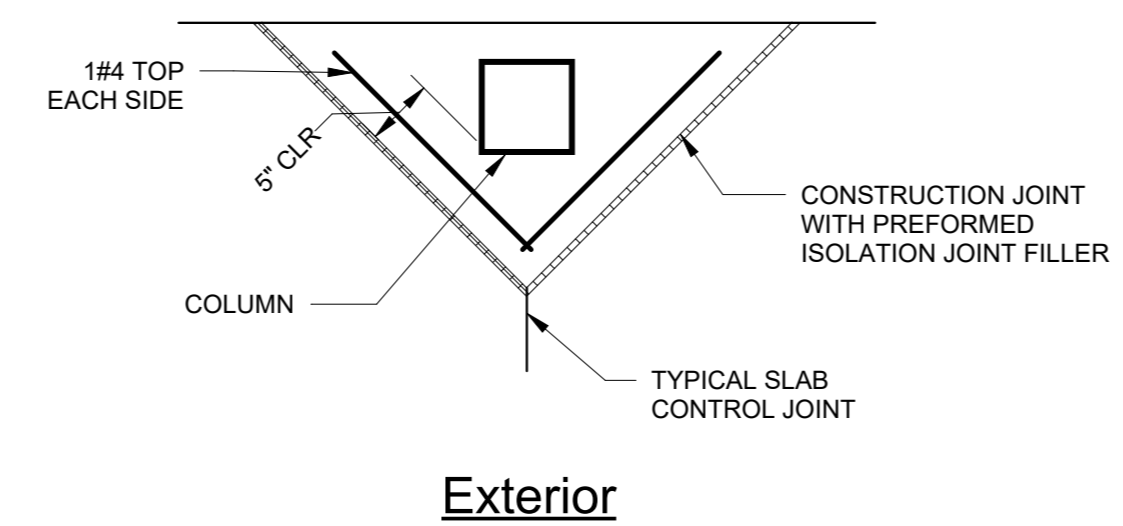
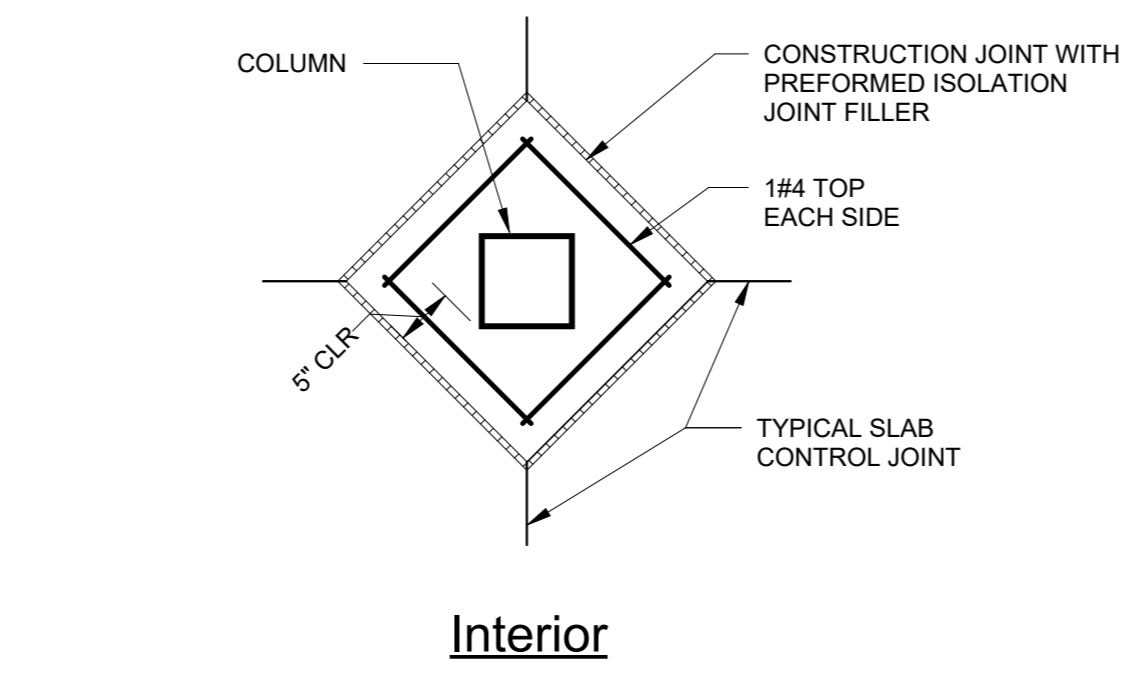
9 C2 Base Plate Detail
 1 1/2" = 1'-0"



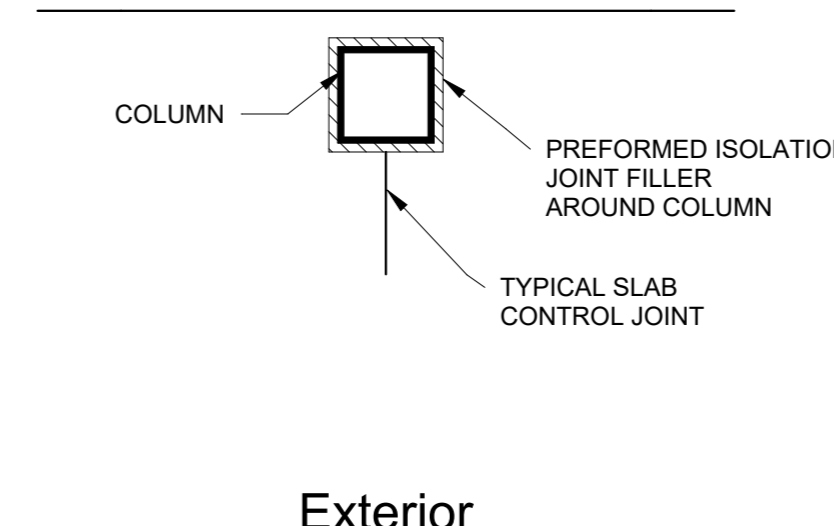
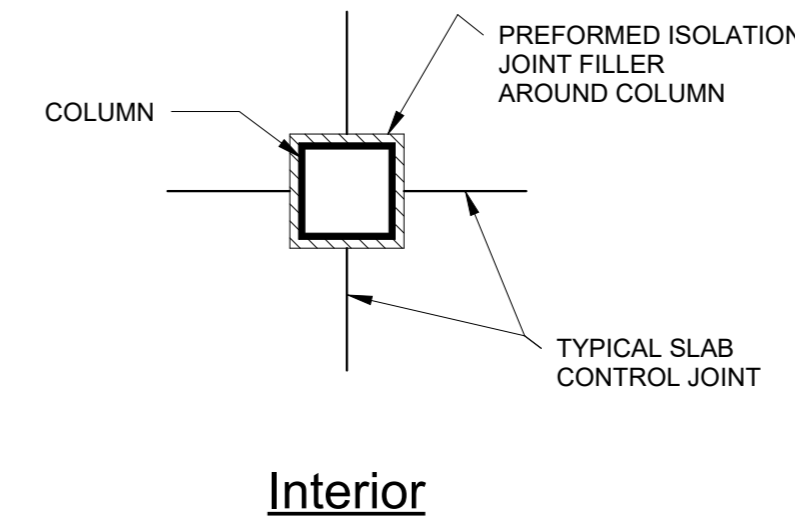
10 C4 Base Plate Detail
 1 1/2" = 1'-0"

Abbreviations

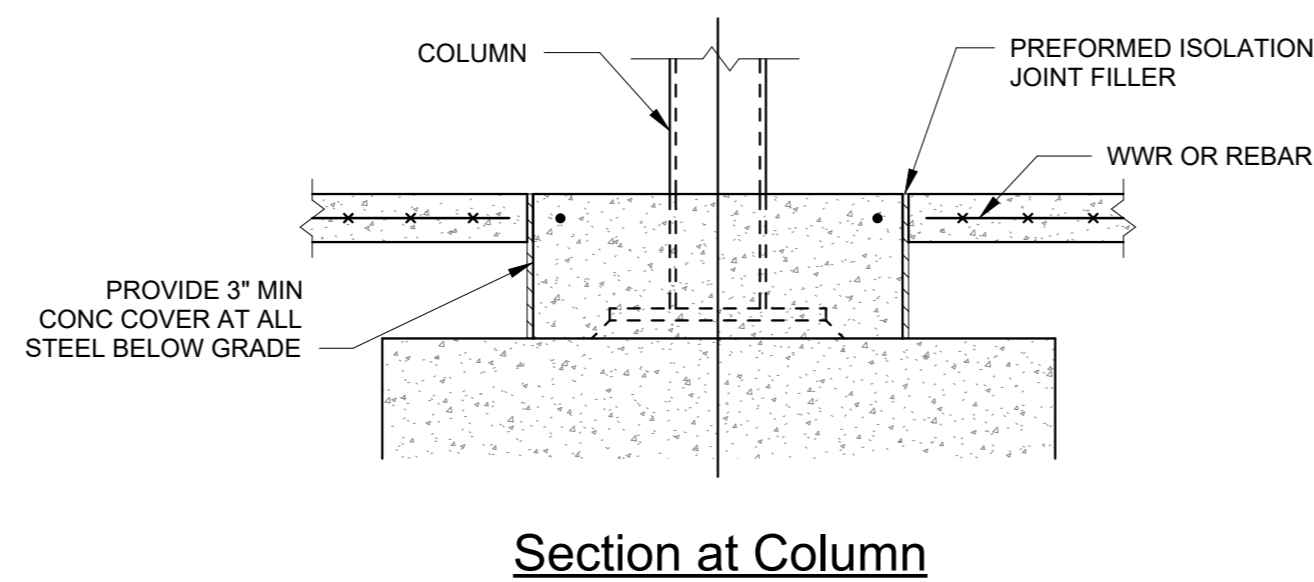
@	AT	JOINT
&	AND	JST
#	NUMBER OR POUND	JG
%	PERCENT	
Ø	DIAMETER	K
*	DEGREE	KSF
		KSI
		KLF
ASD	ALLOWABLE STRESS DESIGN	LW
ACI	AMERICAN CONCRETE INSTITUTE	LWC
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	LRFD
AISI	AMERICAN IRON AND STEEL INSTITUTE	LLV
ASTM	AMERICAN SOCIETY FOR TESTING MATERIALS	LLH
AWIS	AMERICAN WELDING SOCIETY	LBS
AFB	ABOVE FINISH FLOOR	L
ARCH.	ARCHITECT OR ARCHITECTURAL	
AESS	ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	MTL
AHU	AIR HANDLING UNIT	MIN
ALT	ALTERNATE	MAX
APPROX	APPROXIMATE	MRF
APPRV	APPROVED	M
		MECH
		MISC
B	BOTTOM	NWC
BRG	BEARING	NIC
BOF	BOTTOM OF FOUNDATION	NS
BOT	BOTTOM	
BLDG	BUILDING	
BTWN	BETWEEN	N.T.S
		OC
CIP	CAST-IN-PLACE	OPNG
CONC	CONCRETE	OPP
CMU	CONCRETE MASONRY UNIT	
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	PC
CONT	CONTINUOUS	PL
CJ	CONTROL JOINT	PSF
CLR	CLEAR	PSI
COL	COLUMN	PCI
C	CHANNEL	PLBG
COMP	COMPRESSION	PLF
CONN	CONNECTION	PT
CONTR	CONTRACTOR	
		R
		REINF
		SECT
		SC
		SHT
		SLV
		SIM
		SOG
		STD
		STL
		SDI
		SF
		STIFF
		SUP
		SYM
		STD
		T
		TO
		TOC
		TOF
		TOS
		TOW
		TOPC
		TYP
		T
		UNO
		US
		WWR
		W
		WP
		W/O
FF	FINISH FACE	
FT	FOOT OR FEET	
FTG	FOOTING	
FDN	FOUNDATION	
FV	FIELD VERIFY	
FS	FAR SIDE	
GALV	GALVANIZED	
GA	GAUGE	
GR	GRADE	
H. STUD	HEADED STUDS	
IN	INCH	
INV	INVERT	
INFO	INFORMATION	



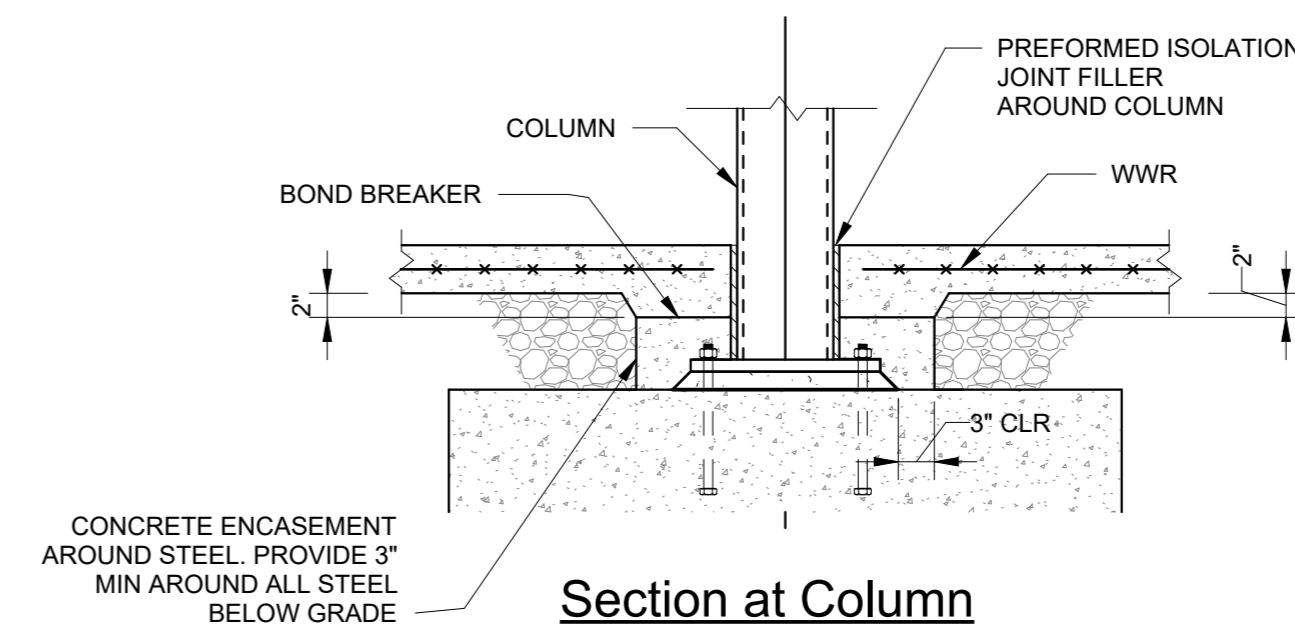
Isolation Joint Detail



Isolation Joint Detail



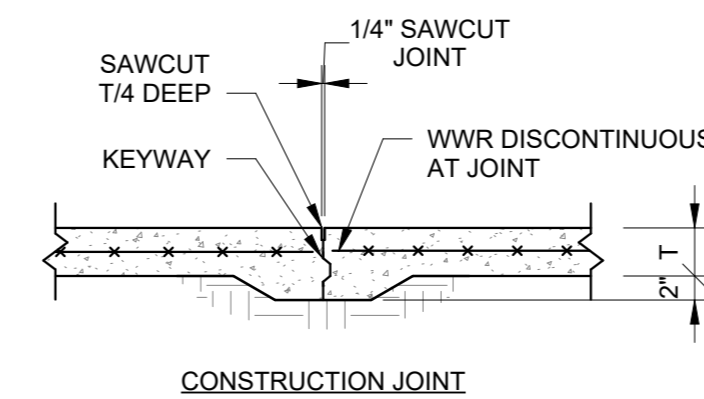
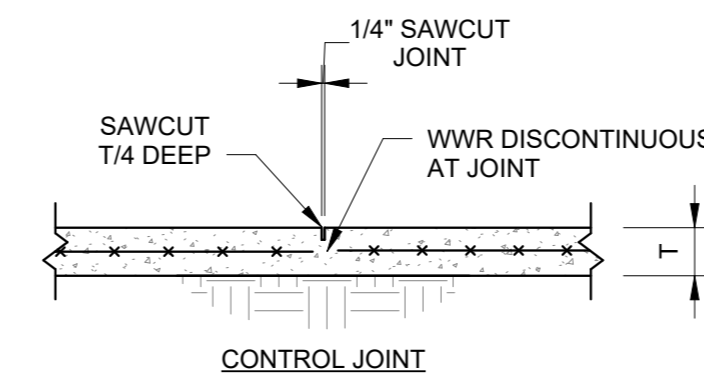
Section at Column



Section at Column

CONTRACTOR'S OPTION TO USE EITHER JOINT DETAIL

1 Column/Slab-Joint Details
N.T.S.

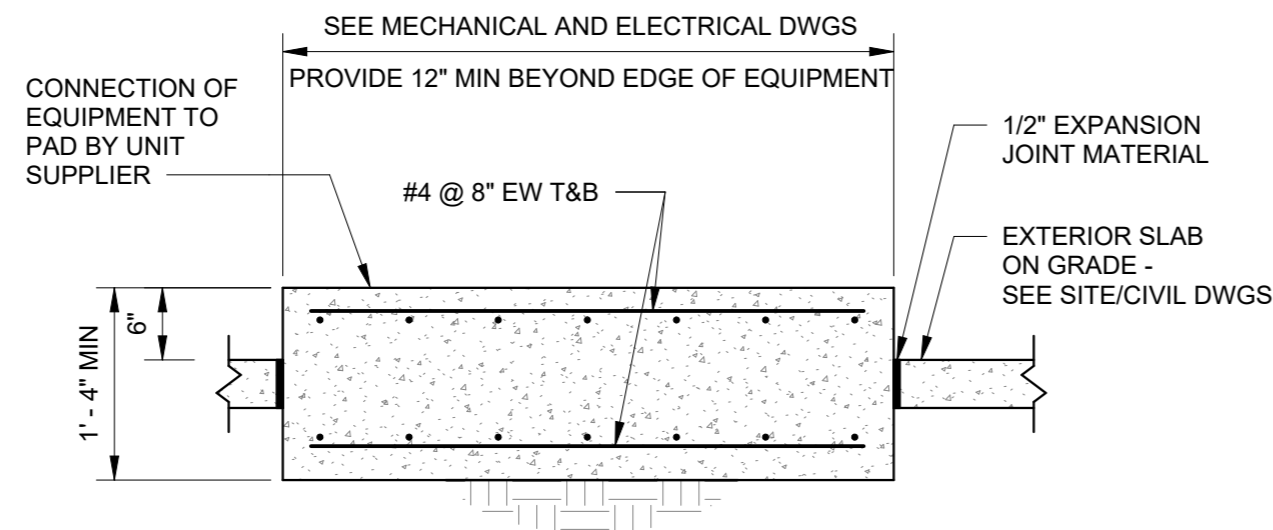


CONTROL/CONSTRUCTION JOINT NOTES:

- CUT JOINTS AS SOON AS SLAB IS ABLE TO SUPPORT WEIGHT OF WORKERS AND EQUIPMENT. APPROXIMATELY 4 TO 8 HOURS AFTER CONCRETE PLACEMENT.
- CLEAN JOINT PRIOR TO FILLING WITH SEMI-RIGID EPOXY
- CUT JOINTS AROUND COLUMNS AS SHOWN IN COLUMN ISOLATION DETAIL.
- FOR LAYOUT OF CONTROL JOINTS, SEE FOUNDATION AND FIRST FLOOR PLAN. IF NO CONTROL JOINTS ARE SHOWN ON PLAN, CONTACT ENGINEER OF RECORD.
- SEE PLANS AND DETAILS FOR SLAB THICKNESS.
- CONTRACTOR TO COORDINATE TILE JOINT LOCATIONS WITH CONTROL JOINTS.
- SEE TYPICAL DETAILS FOR CONCRETE STRENGTH AND WELDED WIRE REINFORCEMENT REQUIREMENTS.

Concrete Tension Lap Splice Lengths				
Bar Size	f _c = 3000 PSI			
	Top Bars		Bottom Bars	
	A	B	A	B
#3	22"	29"	17"	23"
#4	29"	38"	22"	29"
#5	36"	47"	28"	37"
#6	43"	56"	33"	43"
#7	63"	82"	48"	63"
#8	72"	94"	55"	72"
#9	81"	106"	62"	81"
#10	91"	119"	70"	91"
#11	101"	132"	78"	102"
#14	121"	158"	93"	121"

- TABULATED TENSION LAP SPlice LENGTHS ARE FOR NORMAL WEIGHT CONCRETE ONLY AND HAVE NOT BEEN FACTORED FOR EXPOXY-COATED BARS.
- ALL LENGTHS ARE IN INCHES (IN).
- TABULATED VALUES ARE CALCULATED PER ACI 318-14, CHAPTER 25.
- WHEN LAP SPlicing BARS OF DIFFERENT SIZES, THE LAP LENGTH IS DETERMINED BY THE LARGER BAR.
- TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" CONCRETE CAST BELOW REINFORCEMENT.
- TABLE SHALL APPLY ONLY WHEN ACI 318 MINIMUM COVER IS PROVIDED AND THE CENTER-TO-CENTER SPACING IS ≥ 3db

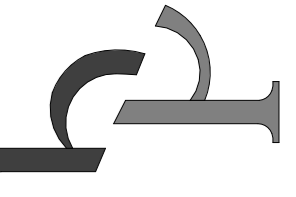


2 Generator Mechanical Pad
N.T.S.

3 Slab on Grade Control Joints
N.T.S.

4 Tension Lap Splice Lengths by Concrete Compression Strength
N.T.S.

GEORGE F YOUNG
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PROJECT #: 24006800BT
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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: **23.014**

ISSUE DATE: **09.18.2024**

DRAWING TITLE: **TYPICAL DETAILS**

SHEET NUMBER:

S-501

EDITION:

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

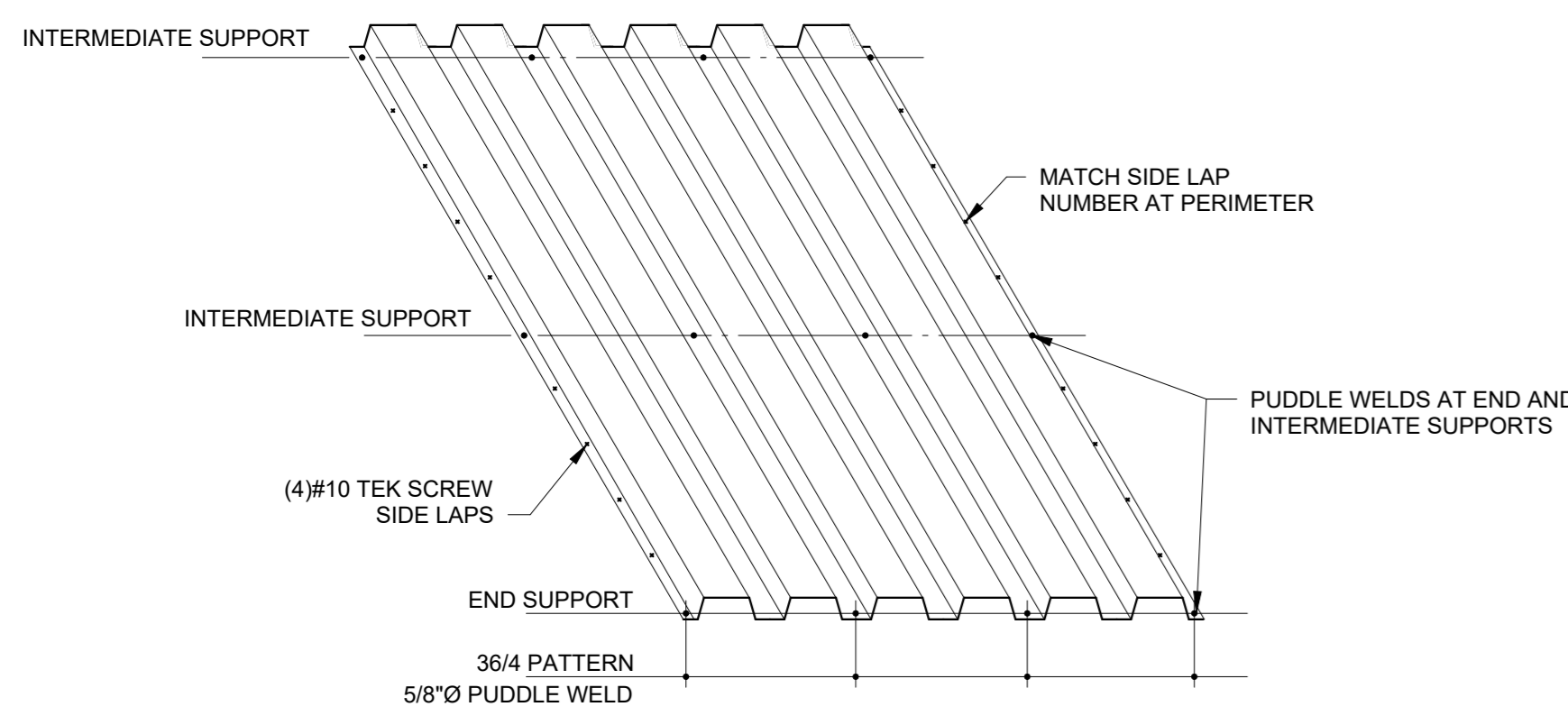
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TYPICAL DETAILS

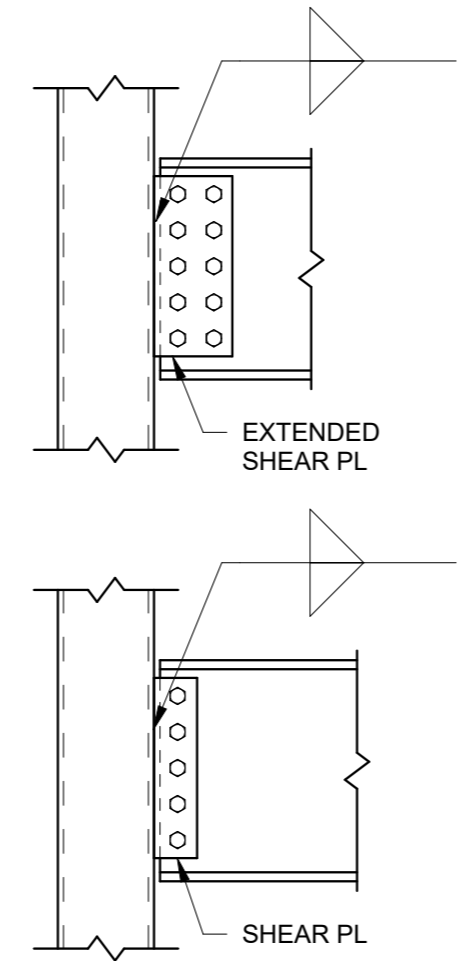
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S-502

EDITION:

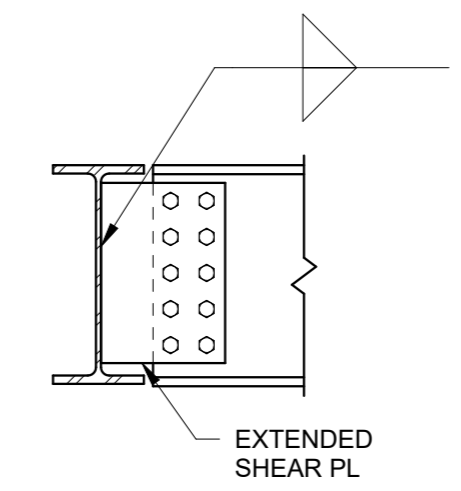
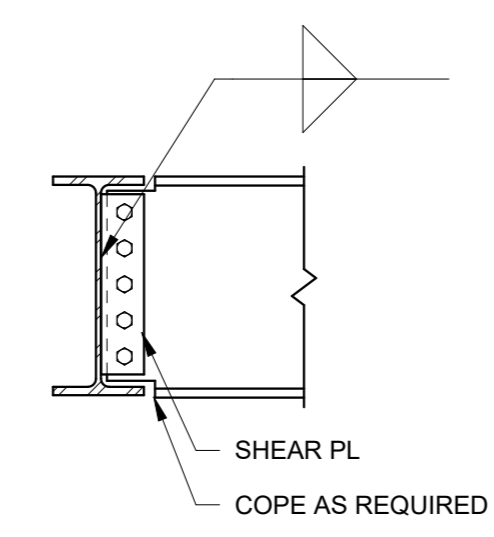
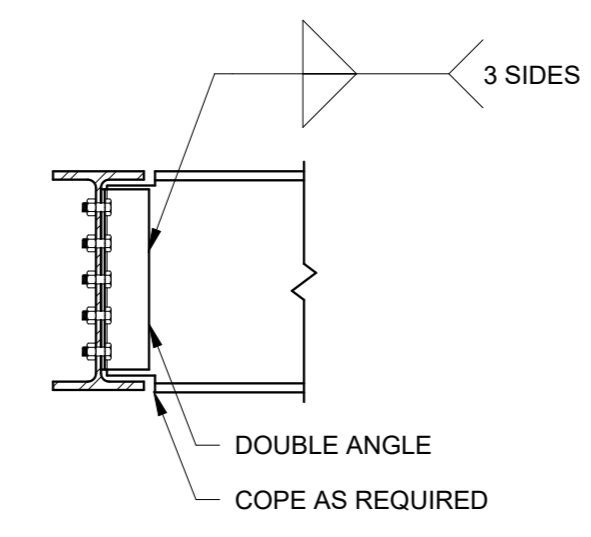


1 1 1/2" Type B Roof Deck Attachment Detail
 N.T.S.



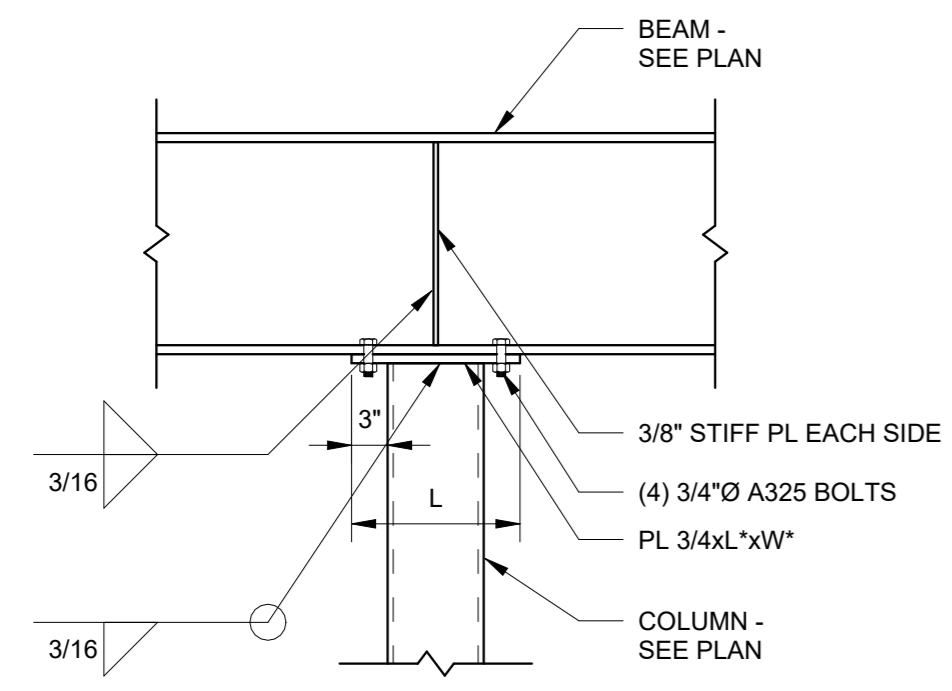
NOTE: DETAILS ARE SCHEMATIC ONLY. LICENSED CONNECTION ENGINEER TO PROVIDE STEEL DETAILER WITH FINAL CONNECTION DESIGN PER GENERAL NOTES.

2 HSS Column Shear Connection Details
 N.T.S.



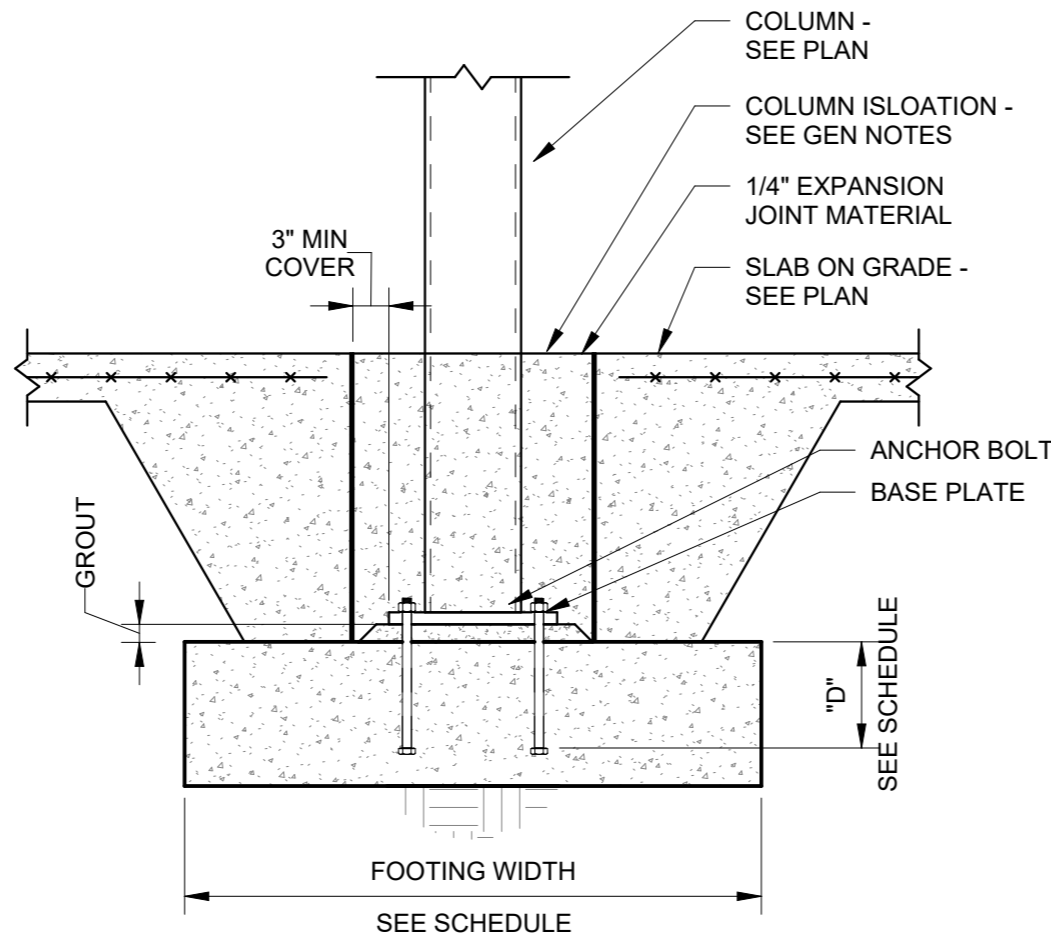
NOTE: DETAILS ARE SCHEMATIC ONLY. LICENSED CONNECTION ENGINEER TO PROVIDE STEEL DETAILER WITH FINAL CONNECTION DESIGN PER GENERAL NOTES.

3 Wide-Flange Girder Shear Connection Details
 N.T.S.

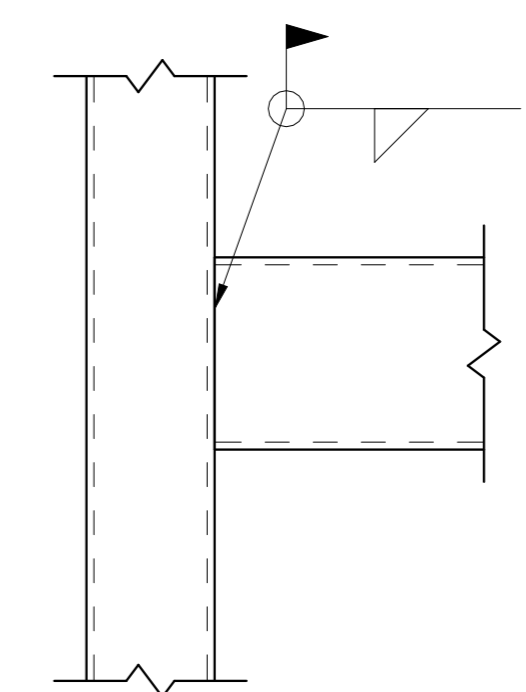


NOTES:
 1. FOR BEAMS WITH FLANGE WIDTH LESS THAN 5", USE 5/8" BOLTS.
 2. CAP PLATE LENGTH TO BE COLUMN FLANGE WIDTH PLUS 6" AND CAP PLATE WIDTH TO BE COLUMN DEPTH PLUS 1".

4 HSS Column Cap Plate Detail
 N.T.S.



5 HSS Column Base Detail
 N.T.S.



NOTE:
 1. DETAILS ARE SCHEMATIC ONLY. LICENSED CONNECTION ENGINEER TO PROVIDE STEEL DETAILER WITH FINAL CONNECTION DESIGN PER GENERAL NOTES.
 2. WHEN BEAM AND COLUMN ARE SAME WIDTH, USE FLARE BEVEL WELD ON SIDES

6 HSS Beam to HSS Column Moment Connection Details
 N.T.S.

SECTION 053100 - STEEL DECKING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. Section Includes:

1. Roof deck.
- B. Related Requirements:
 1. Section 051200 "Structural Steel Framing" for shop- and field-welded shear connectors.
 2. Section 055000 "Metal Fabrications" for framing deck openings with miscellaneous steel shapes.
 3. Section 099113 "Exterior Painting" for repair painting of primed deck and finish painting of deck.
 4. Section 099123 "Interior Painting" for repair painting of primed deck and finish painting of deck.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of deck, accessory, and product indicated.

B. Shop Drawings:

1. Include layout and types of deck panels, anchorage details, reinforcing channels, pans, cut deck openings, special jointing, accessories, and attachments to other construction.

1.4 INFORMATIONAL SUBMITTALS

A. Welding certificates.

B. Product Certificates: For each type of steel deck.

1.5 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel according to AWS D1.3, "Structural Welding Code - Sheet Steel."

1.6 DELIVERY, STORAGE, AND HANDLING

A. Protect steel deck from corrosion, deformation, and other damage during delivery, storage, and handling.

B. Stack steel deck on platforms or pallets and slope to provide drainage. Protect with a waterproof covering and ventilate to avoid condensation.

PART 2 - PRODUCTS

2.0 BUY AMERICA ACT

A. All general contractors engaged in the performance of work under this contract are required to comply with the provisions of the "Buy America Act" (41 U.S.C. §§ 8301-8305), which mandates that only domestic end products and construction materials be utilized in the project. Specifically, the Buy America Act stipulates that all iron, steel, and manufactured goods used in the construction, alteration, or repair of public buildings or public works projects funded by federal appropriations must be produced in the United States. Contractors must ensure that all materials and products meet these requirements and provide necessary documentation to verify compliance. Failure to adhere to these requirements may result in penalties, contract termination, or other legal consequences.

2.1 PERFORMANCE REQUIREMENTS

A. AISI Specifications: Comply with calculated structural characteristics of steel deck according to AISI's "North American Specification for the Design of Cold-Formed Steel Structural Members."

2.2 ROOF DECK

- A. Roof Deck: Fabricate panels, without top-flange stiffening grooves, to comply with "SDI Specifications and Commentary for Steel Roof Deck," in SDI Publication No. 31, and with the following:
1. Galvanized-Steel Sheet: ASTM A 653/A 653M, Structural Steel (SS), Grade 33, G60 zinc coating.
 - a. Color: Manufacturer's standard.
 2. Profile Depth: As indicated.
 3. Design Uncoated-Steel Thickness: As indicated.
 4. Design Uncoated-Steel Thicknesses; Deck Unit/Bottom Plate: As indicated.
 5. Span Condition: Triple span or more.
 6. Side Laps: Overlapped or interlocking seam at Contractor's option.

2.3 ACCESSORIES

- A. General: Provide manufacturer's standard accessory materials for deck that comply with requirements indicated.
- B. Mechanical Fasteners: Corrosion-resistant, low-velocity, power-actuated or pneumatically driven carbon-steel fasteners; or self-drilling, self-threading screws.
- C. Side-Lap Fasteners: Corrosion-resistant, hexagonal washer head; self-drilling, carbon-steel screws, No. 10 minimum diameter.
- D. Flexible Closure Strips: Vulcanized, closed-cell, synthetic rubber.
- E. Miscellaneous Sheet Metal Deck Accessories: Steel sheet, minimum yield strength of 33,000 psi, not less than 0.0359-inch design uncoated thickness, of same material and finish as deck; of profile indicated or required for application.
- F. Column Closures, End Closures, Z-Closures, and Cover Plates: Steel sheet, of same material, finish, and thickness as deck unless otherwise indicated.
- G. Recessed Sump Pans: Single-piece steel sheet, 0.0747 inch thick, of same material and finish as deck, with 3-inch-wide flanges and level or sloped recessed pans of 1-1/2-inch minimum depth. For drains, cut holes in the field.
- H. Galvanizing Repair Paint: ASTM A 780.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine supporting frame and field conditions for compliance with requirements for installation tolerances and other conditions affecting performance.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION, GENERAL

- A. Install deck panels and accessories according to applicable specifications and commentary in SDI Publication No. 31, manufacturer's written instructions, and requirements in this Section.
- B. Install temporary shoring before placing deck panels if required to meet deflection limitations.
- C. Locate deck bundles to prevent overloading of supporting members.
- D. Place deck panels on supporting frame and adjust to final position with ends accurately aligned and bearing on supporting frame before being permanently fastened. Do not stretch or contract side-lap interlocks.
- E. Place deck panels flat and square and fasten to supporting frame without warp or deflection.
- F. Cut and neatly fit deck panels and accessories around openings and other work projecting through or adjacent to deck.
- G. Provide additional reinforcement and closure pieces at openings as required for strength, continuity of deck, and support of other work.
- H. Comply with AWS requirements and procedures for manual shielded metal arc welding, appearance and quality of welds, and methods used for correcting welding work.
- I. Mechanical fasteners may be used in lieu of welding to fasten deck. Locate mechanical fasteners and install according to deck manufacturer's written instructions.

3.3 ROOF-DECK INSTALLATION

- A. Fasten roof-deck panels to steel supporting members by arc spot (puddle) welds of the surface diameter indicated or arc seam welds with an equal perimeter that is not less than 1-1/2 inches long, and as follows:
1. Weld Diameter: 5/8 inch, nominal.
 - B. Side-Lap and Perimeter Edge Fastening: Fasten side laps and perimeter edges of panels between supports, at intervals as indicated:
 1. Mechanically fasten with self-drilling, No. 10 diameter or larger, carbon-steel screws.
 2. Fasten with a minimum of 1-1/2-inch-long welds.
 - C. End Bearing: Install deck ends over supporting frame with a minimum end bearing of 1-1/2 inches, with end joints as follows:
 1. End Joints: Lapped 2 inches minimum.
 - D. Roof Sump Pans and Sump Plates: Install over openings provided in roof deck and weld flanges to top of deck. Space welds not more than 12 inches apart with at least one weld at each corner.
 1. Install reinforcing channels or zees in ribs to span between supports and weld.
 - E. Miscellaneous Roof-Deck Accessories: Install ridge and valley plates, finish strips, end closures, and reinforcing channels according to deck manufacturer's written instructions. Weld to substrate to provide a complete deck installation.
 1. Weld cover plates at changes in direction of roof-deck panels unless otherwise indicated.
 - F. Flexible Closure Strips: Install flexible closure strips over partitions, walls, and where indicated. Install with adhesive according to manufacturer's written instructions to ensure complete closure.

3.4 FIELD QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- B. Field welds will be subject to inspection.
- C. Testing agency will report inspection results promptly and in writing to Contractor and Architect.
- D. Remove and replace work that does not comply with specified requirements.
- E. Additional inspecting, at Contractor's expense, will be performed to determine compliance of corrected work with specified requirements.

3.5 PROTECTION

- A. Galvanizing Repairs: Prepare and repair damaged galvanized coatings on both surfaces of deck with galvanized repair paint according to ASTM A 780 and manufacturer's written instructions.
- B. Provide final protection and maintain conditions to ensure that steel deck is without damage or deterioration at time of Substantial Completion.

END OF SECTION



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FOUNTAIN COMMUNITY COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

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PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

DRAWING TITLE:

SPECIFICATIONS

SHEET NUMBER:

S-903

EDITION:

SECTION 054500 - COLD-FORMED METAL ROOF TRUSSES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

A. The extent of cold-formed metal roof trusses is shown on the drawings, including notes, elevations and details to show basic layout and location of members, typical connections, and type of steel required.

B. Types of cold-formed metal roof trusses include:

- 1. Gable-shaped trusses.

C. Section includes all work and supplementary items required to complete the proper installation of the pre-engineered cold-formed metal roof trusses as shown on the drawings and specified herein including headers, outriggers, supplemental rafters and incidental framing for a complete roof assembly within the extent shown on the drawings.

D. Pre-engineered cold-formed metal roof trusses include planar structural units consisting of welded, screwed or bolted connected members which are fabricated, cut and assembled prior to delivery or at the job site.

E. Miscellaneous Metal Fabrications shown on the drawings are specified elsewhere in Division 5.

1.2 SUBMITTALS

A. General: Submit the following in accordance with Conditions of Contract and Division 01 Specification Sections.

- 1. Submit all shop drawings in PDF format.

B. Product Data: Submit fabricator's technical data covering materials, shapes, hardware, fabrication process, handling and erection.

C. Shop Drawings: Submit shop drawings showing shapes and dimensions of members to be used including pitch, span, camber configuration and spacing for each type or configuration of truss required. Show all bearing and anchorage details. Specify and detail all supplemental strapping, bracing clips and other accessories required for proper installation and permanent member bracing. Shop drawings shall include all placement sequences and instructions.

- 1. Submit design analysis and test reports indicating loading, section properties, allowable stress, stress diagrams and calculations, and similar information needed for analysis and to insure trusses comply with requirements.
2. All designs shall bear the name and seal of a Structural Engineer licensed to practice in the State of Alabama. Shop drawings which do not contain this information will be returned unchecked.

D. Quality Control Program: Submit written and bound quality control program which includes procedures for product certification and truss engineering, fabrication, handling, delivery, temporary storage, and erection procedures.

- 1. Quality Control Manual may be used as basis for inspection by a testing agency engaged by the Owner to determine compliance with the Quality Control Manual and other tests and observations noted herein.

E. Architect's Shop Drawing Review: Review of shop drawings will be for general considerations only. Compliance with requirements for materials, fabrication, and erection of structural steel is the Contractor's responsibility. Submit all shop drawings in PDF format.

1.3 QUALITY ASSURANCE

A. Codes and Standards: Comply with provisions of the following, except as otherwise indicated.

- 1. AWS D1.3 "Structural Welding Code for Sheet Steel".
2. AISI "Specification for the Design of Cold-Formed Steel Structural Members."
3. ASTM A653 "Specification for Sheet Steel, Zinc Coated (Galvanized) by the Hot-Dip Process, Physical (Structural) Quality".

B. Qualifications for Welding Work:

- 1. Qualify welding processes and welding operations in accordance with AWS D1. "Structural Welding Code for Sheet Steel".
2. Provide certification that welders to be employed in the work have satisfactorily passed AWS qualification tests within the previous 12 months.
a. If recertification of welders is required, retesting will be the Contractor's responsibility.

C. Design of Members and Connections:

- 1. All details shown are typical; similar details apply to similar conditions, unless otherwise indicated. Verify dimensions at the site whenever possible without causing delay in the work.
2. Promptly notify the Architect whenever design of members and connections for any portion of the structure are not clearly indicated.

1.4 FABRICATOR'S QUALIFICATIONS

A. Trusses shall be designed, fabricated, and erected by a firm which has a record including a minimum of five years of successfully designing, fabricating, and erecting trussed assemblies similar to scope required and which practices a quality control program.

B. Fabricators who wish to qualify for approval under this Section of the specification shall submit evidence of compliance with this specification.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to the site at such intervals to insure uninterrupted progress of the work.

B. Store materials to permit easy access for inspection and identification. Keep steel members off the ground, using pallets, platforms, or other supports. Protect steel members and packaged materials from corrosion and deterioration.

- 1. Do not store materials on structure in a manner that might cause distortion or damage to supporting structures.

C. Deliver and handle products in exact accordance with the manufacturer's latest published requirements and specifications to avoid damage from bending, overturning, or other cause for which truss is not designed to resist or endure.

PART 2 - PRODUCTS

2.0 BUY AMERICA ACT

A. All general contractors engaged in the performance of work under this contract are required to comply with the provisions of the "Buy America Act" (41 U.S.C. §§ 8301-8305), which mandates that only domestic end products and construction materials be utilized in the project. Specifically, the Buy America Act stipulates that all iron, steel, and manufactured goods used in the construction, alteration, or repair of public buildings or public works projects funded by federal appropriations must be produced in the United States. Contractors must ensure that all materials and products meet these requirements and provide necessary documentation to verify compliance. Failure to adhere to these requirements may result in penalties, contract termination, or other legal consequences.

2.1 MATERIALS

A. Sheet Steel: ASTM A653 "Specification for Sheet Steel, Zinc Coated (Galvanized) by the Hot-Dip Process, Physical (Structural) Quality".

- 1. Grade A, Fy = 33ksi; 18 gage and lighter.
2. Grade D, Fy = 50 ksi; 16 gage and heavier.
3. Galvanizing: G-60 Coating Class.

B. Galvanizing: ASTM A525.

C. Fasteners: ITW Buldex pan head screws and bolts or others submitted and approved by the Architect.

D. Electrodes for Welding: Comply with AWS Code.

E. Paint: Zinc Chromate, Oil-alkyd; TT-P-57, Type I.

2.2 DESIGN

A. All calculations and procedures pertaining to design, analysis, and computation of section properties shall be in accordance with the Specification for the Design of Cold-Formed Steel Structural Members of the American Iron and Steel Institute.

B. Design trusses for loads indicated on drawings plus concentrated loads hung from or supported on trusses. Refer to mechanical, electrical and plumbing drawings and specifications for loading information and location. Loading as required by other subcontractors, such as fire protection, shall be coordinated by the General Contractor.

C. Holes in Members: Design for holes in members where shown for securing other work to trusses; however, deduct area of holes from the area of chord when calculating strength of member.

D. Design bridging and other temporary and permanent bracing for same loads as used to design trusses plus any temporary loads and permanent loads resulting laterally bracing of members.

2.3 FABRICATION

A. All trusses shall be fabricated and erected in strict accordance with the current printed instructions of the approved subcontractor or fabricator.

B. All truss components shall be straight and true prior to fabrication. Flattening or straightening of components, when necessary, shall be accomplished in a manner so as to not damage the component.

C. All truss components shall be cut neatly to fit snugly against adjacent members.

D. No splices will be allowed in trusses except as authorized in writing by the Architect or as shown on the approved shop drawings.

E. Framing components shall be field or shop fabricated and joined to one another by means of welding or through the use of screws.

F. Completed trusses shall be free from twists, bends, or open joints with all members straight and true to line.

G. Welds must be thoroughly cleaned and wire brushed and primed and painted with a high zinc content paint capable of providing an equal or greater degree of protection than the original G-60 galvanized coating.

H. Bridging: Fabricate horizontal or diagonal type bridging for trusses as required to prevent buckling of members where sheathing applied to the truss members is not present or is not adequate to brace the truss member. Bridging shall transfer all forces to the roof diaphragm.

I. End Anchorage: Fabricate end anchorages to secure trusses to adjacent construction.

J. Fabricate all clips, angles, henways and other miscellaneous pieces necessary to attach cold-formed metal roof trusses to the substructure or to attach other components within this section to one another.

PART 3 - EXECUTION

3.1 INSPECTION

A. Erector must examine areas and conditions under which the trusses are to be installed, and notify Contractor and Architect in writing of conditions detrimental to proper and timely completion of work. Do not proceed with work until unsatisfactory conditions have been corrected in a manner acceptable to the Erector. Additionally, the following items shall be installed and inspected prior to roof truss installation.

1. Conditions of Surfaces:

- a. Exterior and Interior Bearing Plates:

- 1) Properly positioned.
2) Installed so as to allow complete and adequate contact with truss connection member.

- b. Exterior and Interior Bearing Plates installed in proper elevations so as to permit the installation of the truss system without the use of shims or adjustability.

3.2 PREPARATION

A. Structural Adequacy: Contractor shall prepare the structure to insure proper and adequate structural support for the materials specified.

3.3 ERECTION

A. Prefabricated trusses shall be braced against racking. Lifting of trusses shall be done so as to not cause local distortion in any member.

B. All cold-formed metal framing shall be erected using equipment of adequate capacity to safely perform the work.

C. The General Contractor is responsible for checking the dimensions and assuring the fit of all members and trusses before erection begins.

- 1. All work shall be erected plumb and level and to dimensions and spacings indicated on the drawings. Provide bridging as shown in the shop drawings.

D. Assemblies shall be of the size and spacing shown on the approved shop drawings.

E. Provide web stiffeners and reinforcement at reaction points where required by analysis or to suit details.

F. Hoist units in place by means of lifting equipment suited to sizes and types of trusses required, applied at designated lift points as recommended by fabricator, exercising care not to damage truss members.

G. Provide temporary bracing as required to maintain trusses plumb, parallel and in location indicated, until permanent bracing is installed.

H. Anchor trusses securely at all bearing points to comply with methods and details indicated.

I. Install permanent bracing and related components to enable trusses to maintain design spacing, withstand design loads, and comply with other indicated requirements.

J. Do not cut or remove truss members.

K. Temporary Planking: Provide temporary planking and working platforms as necessary to effectively complete work.

L. Field Assembly: Set structural frames accurately to lines and elevations indicated. Align and adjust various members forming part of complete frame or structure before permanently fastening.

3.4 QUALITY CONTROL

A. The Owner may engage an independent testing agency to perform shop and field inspection of trusses during fabrication.

B. Testing Agency shall conduct and interpret tests and state in each report whether observations and tests comply with the requirements and specifically state any deviations therefrom.

C. Provide Access for testing agency to places where truss work is being fabricated or produced so that required inspections, observations and testing can be accomplished.

D. Architect reserves the right, at any time before final acceptance, to reject material not complying with specified requirements regardless of when testing agency completed inspection, observation or testing.

E. Correct deficiencies in truss work which inspections and test reports have indicated to be not in compliance with requirements. Perform additional tests, at Contractor's expense, as may be necessary to reconfirm any non-compliance of original work, and as may be necessary to show compliance of correct work.

F. Confirmation of Quality Control Manual: The testing agency may make a minimum of five site visits to the fabricators shop and/or to the jobsite to confirm conformance with the Quality Control Manual submitted to and accepted by the Architect. Provide minimum of three of the five visits to the jobsite.

G. Prior to Truss Erection: The testing agency may inspect all trusses as follows either at the shop of in the field.

- 1. The testing Agency will visually inspect all trusses and certify them as meeting the requirements of the approved shop drawings and these specifications.

- 2. Inspection shall include welds. Visually inspect all welds according to AWS Welding Code.

H. After Truss Erection: The testing agency may inspect all trusses after erection and temporary and permanent bracing is in place as follows.

- 1. The testing Agency shall inspect the installed trusses to certify that installation is in accordance with approved shop drawings and these specifications.

G. Testing Agency shall submit written reports to Architect within 3 days of the inspections. Under no circumstances are trusses to be erected prior to testing agency approval.

END OF SECTION



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ISSUED DRAWING LOG:

Table with columns: #, Date, Description. Multiple rows with empty cells.

PROJECT NO: 23.014

ISSUE DATE: 09.18.2024

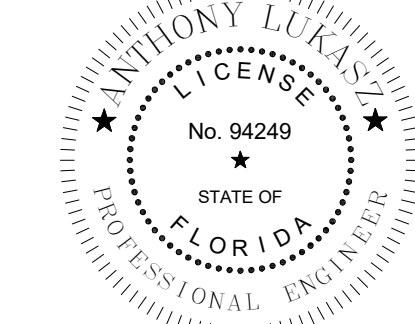
DRAWING TITLE:

SPECIFICATIONS

SHEET NUMBER:

S-904

EDITION:



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ISSUED DRAWING LOG:

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:

LEGENDS AND GENERAL NOTES

SHEET NUMBER:

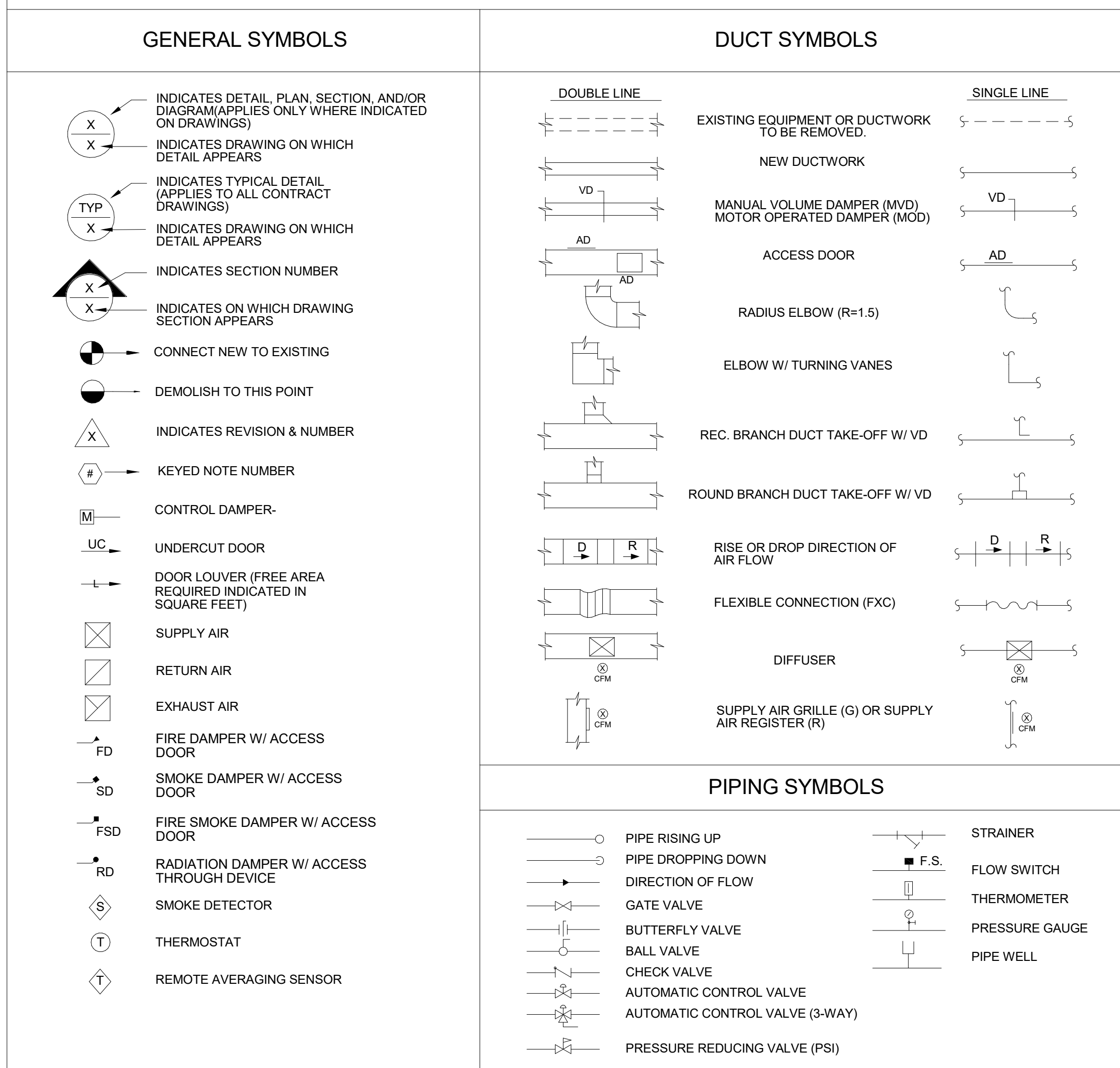
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EDITION: PERMIT SET

GENERAL NOTES

- 1. DO NOT SCALE FROM THESE DRAWINGS. EXACT DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL DRAWINGS.
2. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED.
3. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING, BUT NOT LIMITED TO, NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH MAY BE IN EFFECT. ALL MECHANICAL MATERIALS, INSTALLATION PROCEDURES, AND SYSTEM LAYOUTS WHICH MAY BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE MECHANICAL CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
4. IT IS THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS AS WELL AS THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH THE OWNER OR OWNER'S REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER MAY CONSIDER PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THIS CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
5. ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND THE RELATED PLUMBING, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEER PRIOR TO BID SUBMISSION.
6. WHERE CONFLICTS EXIST BETWEEN THE INFORMATION INCLUDED IN THESE DRAWINGS, BETWEEN INFORMATION PROVIDED IN THESE DRAWINGS AND THE PROJECT SPECIFICATIONS, AND/OR WITHIN THE PROJECT SPECIFICATIONS, THE MORE STRINGENT AND/OR HIGHEST COST REQUIREMENTS SHALL APPLY. SHOULD THIS CONTRACTOR REQUIRE FURTHER CLARIFICATION, AN RFI SHALL BE SUBMITTED FOR CLARIFICATION. WHERE CONFLICTS DO EXIST, THE PROJECT ENGINEER OF RECORD SHALL HAVE THE SOLE DISCRETION AND RIGHT TO PROVIDE INTERPRETATION OF INTENT OF THE CONTRACT DOCUMENTS AS REQUIRED. THIS INTERPRETATION SHALL SERVE TO DIRECT THE CONTRACTOR IN ACCORDANCE WITH THE IMPLIED INTENT OF THE CONSTRUCTION DOCUMENTS WITHOUT ADDITIONAL COST TO THE PROJECT.
7. THE MECHANICAL CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS, INDICATING THE PRECISE LOCATION OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS, AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.
8. CONTRACTOR SHALL COORDINATE EXACT LOCATIONS OF NEW MECHANICAL EQUIPMENT WITH NEW LIGHT LOCATIONS AND TILE LOCATIONS. REFER TO THE ARCHITECT'S REFLECTED CEILING PLAN LAYOUT.
9. ALL DUCT DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.
10. RUN ALL DUCTWORK AND PIPING WITH AS FEW OFFSETS AS POSSIBLE THROUGHOUT THE ENTIRE BUILDING. COORDINATE AND VERIFY WITH OTHER CONTRACTORS SO AS NOT TO INTERFERE WITH PLUMBING, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, ETC.
11. ALL REQUIRED OFFSETS, RISES, AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF DUCT AND PIPE RUNS ARE NOT NECESSARILY SHOWN. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRANSITIONS, FITTINGS, ELBOWS, DUCTWORK, PIPING, SUPPORTS, ETC. NECESSARY FOR PROPER INSTALLATION AND OPERATION OF NEW HVAC SYSTEM. THIS CONTRACTOR SHALL INCLUDE A CONTINGENCY IN HIS/HER BID TO OFFSET ANY COST REQUIRED FOR ADDITIONAL FITTINGS AND LABOR THAT MAY BE REQUIRED.
12. ALL BRANCH DUCTS TO AIR DEVICES SHALL BE PROVIDED WITH VOLUME DAMPER IN THE BRANCH CONNECTION UNLESS NOTED OTHERWISE. ALL ROUND BRANCH DUCT CONNECTIONS SHALL BE PROVIDED WITH CONICAL SPIN-IN FITTING WITH INTEGRAL VOLUME DAMPER.
13. CONDENSATE SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED STORM WATER DRAINAGE SYSTEM OR LANDSCAPED/GRASS AREA VIA AN INDIRECT CONNECTION. CONDENSATE SHALL NOT BE ALLOWED TO DRAIN ONTO ANY WALKWAY.
14. MOUNT ALL THERMOSTATS ABOVE FINISHED FLOOR AT HEIGHT APPROVED BY ARCHITECT. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS.
15. TEST AND BALANCE BY A THIRD PARTY SHALL BE REQUIRED FOR ALL SUPPLY, RETURN, OA, VENTILATION, STAIR PRESSURIZATION AND SMOKE REMOVAL SYSTEMS FOR THIS FACILITY.
16. ALL DUCTWORK, PIPING, MATERIALS, AND EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILD AMERICA, BUY AMERICA ACT (BABAA).

MECHANICAL SYMBOL LEGEND



MECHANICAL ABBREVIATIONS LEGEND

Table of Mechanical Abbreviations Legend listing various abbreviations and their full names, such as AFF ABOVE FINISHED FLOOR, ESP EXTERNAL STATIC PRESSURE, etc.

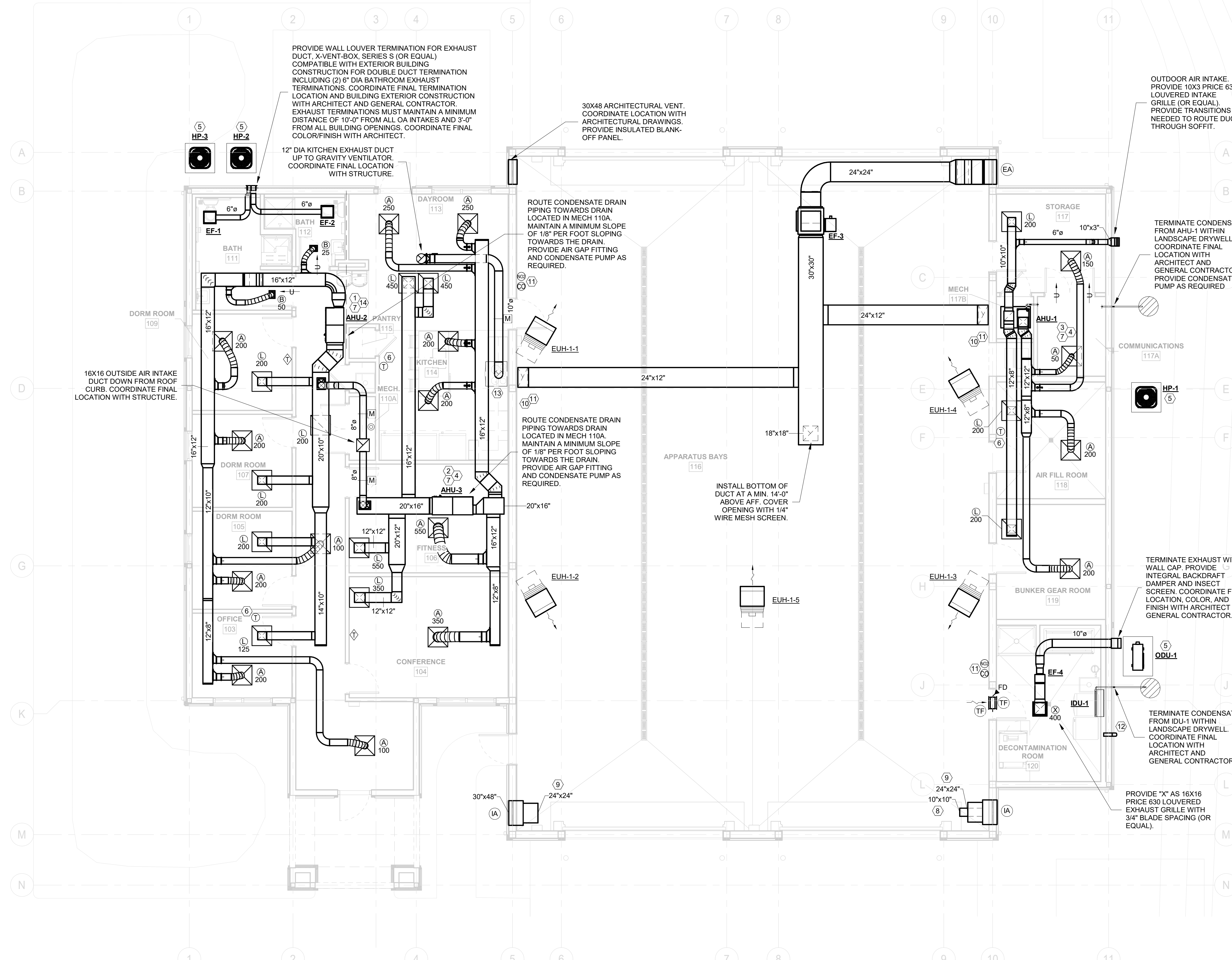
APPLICABLE CODES

Table of Applicable Codes listing building codes and standards, such as FLORIDA BUILDING CODE, 8TH EDITION (FBC), (2023) BUILDING ACCESSIBILITY, etc.

Date	Description

- # KEYNOTES**
1. PROVIDE UNIT WITH 8" DIA OUTSIDE AIR BRANCH DUCT. CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER WITHIN OUTSIDE AIR BRANCH DUCT. INTERLOCK DAMPER TO FULLY OPEN WHEN ASSOCIATED UNIT IS RUNNING DURING OCCUPIED PERIODS AND FULLY CLOSE WHEN ASSOCIATED UNIT IS OFF. PROVIDE MANUAL BALANCING DAMPER WITHIN BRANCH DUCT FOR TEST AND BALANCE CONTRACTOR TO BALANCE OUTSIDE AIR CFM TO VALUE SHOWN IN SCHEDULE.
 2. PROVIDE UNIT WITH 10" DIA OUTSIDE AIR BRANCH DUCT. CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER WITHIN OUTSIDE AIR BRANCH DUCT. INTERLOCK DAMPER TO FULLY OPEN WHEN ASSOCIATED UNIT IS RUNNING DURING OCCUPIED PERIODS AND FULLY CLOSE WHEN ASSOCIATED UNIT IS OFF. PROVIDE MANUAL BALANCING DAMPER WITHIN BRANCH DUCT FOR TEST AND BALANCE CONTRACTOR TO BALANCE OUTSIDE AIR CFM TO VALUE SHOWN IN SCHEDULE.
 3. PROVIDE UNIT WITH 6" DIA OUTSIDE AIR BRANCH DUCT. CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER WITHIN OUTSIDE AIR BRANCH DUCT. INTERLOCK DAMPER TO FULLY OPEN WHEN ASSOCIATED UNIT IS RUNNING DURING OCCUPIED PERIODS AND FULLY CLOSE WHEN ASSOCIATED UNIT IS OFF. PROVIDE MANUAL BALANCING DAMPER WITHIN BRANCH DUCT FOR TEST AND BALANCE CONTRACTOR TO BALANCE OUTSIDE AIR CFM TO VALUE SHOWN IN SCHEDULE. PROVIDE 3-1/4" X 10" EAVE ELBOW TO TRANSITION TO GRILLE WITHIN SOFFIT. TERMINATE EXHAUST DUCT WITH AN ALUMINUM LOUVERED GRILLE EQUAL TO PRICE INDUSTRIES MODEL 630 MOUNTED ON THE UNDERSIDE OF SOFFIT OVERHANG. COORDINATE SIZE WITH EXHAUST DUCT SIZE SHOWN.
 4. CONTRACTOR SHALL INSTALL AIR HANDLING UNIT ON INSULATED SHEET METAL PLENUM. ROUTE REFRIGERANT LINES FROM AIR HANDLING UNIT TO CONDENSING UNIT IN A CONCEALED FASHION. CONTRACTOR SHALL PROVIDE FULLY INSULATED UNIT CONNECTION SIZE SCHEDULE 40 PVC CONDENSATE LINE ROUTED TO STORMWATER PIPING. UNLESS OTHERWISE NOTED, PROVIDE CONDENSATE PUMP AS REQUIRED. SEE PLUMBING DRAWINGS FOR INFORMATION.
 5. CONTRACTOR SHALL INSTALL OUTDOOR UNIT IN THIS APPROXIMATE LOCATION. INSTALL UNIT ON 6" THICK HOUSING/PAD. PROVIDE UNIT WITH HURRICANE TIE DOWN STRAPS AND INSTALL UNIT ACCORDING TO MANUFACTURER'S INSTALLATION GUIDELINES AND IN ACCORDANCE WITH ALL FBC 2023 MECHANICAL WIND LOAD REQUIREMENTS.
 6. PROVIDE NEW TEMPERATURE SENSOR IN THIS APPROXIMATE LOCATION. COORDINATE FINAL LOCATION AND MOUNTING ELEVATION WITH ARCHITECT AND GENERAL CONTRACTOR. FINAL THERMOSTAT LOCATIONS TO BE DETERMINED BY OWNER.
 7. INSTALL AIR-FM-6000 NEEDLEPOINT BI-POLAR IONIZATION UNIT (OR EQUAL). INSTALL UNIT PER MANUFACTURER'S INSTALLATION REQUIREMENTS.
 8. CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER WITHIN 10X10 INTAKE AIR BRANCH DUCT. INTERLOCK DAMPER TO FULLY OPEN WHEN EF-4 IS RUNNING AND FULLY CLOSED WHEN ASSOCIATED UNIT IS OFF. PROVIDE MANUAL BALANCING DAMPER WITHIN BRANCH DUCT FOR TEST AND BALANCE CONTRACTOR TO BALANCE OUTSIDE AIR CFM TO VALUE SHOWN IN SCHEDULE.
 9. CONTRACTOR SHALL PROVIDE MOTORIZED DAMPER WITHIN 24X24 INTAKE AIR BRANCH DUCT. INTERLOCK DAMPER TO FULLY OPEN WHEN EF-3 IS RUNNING AND FULLY CLOSED WHEN ASSOCIATED UNIT IS OFF. PROVIDE MANUAL BALANCING DAMPER WITHIN BRANCH DUCT FOR TEST AND BALANCE CONTRACTOR TO BALANCE OUTSIDE AIR CFM TO VALUE SHOWN IN SCHEDULE.
 10. APPROXIMATE LOCATION OF APPARATUS BAY VENTILATION FAN INTAKE GRILLE. FAN SHALL BE CONTROLLED VIA AN NO2, CO SENSORS, AND A CONTROLLER WITH A MANUAL OVERRIDE SWITCH. COORDINATE MANUAL OVERRIDE SWITCH LOCATIONS WITH ARCHITECT, GENERAL CONTRACTOR, AND OWNER. THE CONTROLLER SHALL BE LOCATED WITHIN APPARATUS BAY. CONTRACTOR SHALL PROVIDE ALL COMPONENTS, WIRING, CONDUIT, SENSORS, ETC. AS REQUIRED FOR A COMPLETE, FUNCTIONAL SYSTEM. SYSTEM SHALL BE EQUAL TO THE INTEC CONTROLS OR HONEYWELL. THIS SYSTEM SHALL INCLUDE TWO CO SENSORS INSTALLED 60" ABOVE THE FINISHED FLOOR AND A CONTROLLER CAPABLE OF MODULATING FAN CAPACITY TO MAINTAIN CO LEVELS AT OR BELOW SETPOINT (25 PPM). THE SYSTEM SHALL INCLUDE TWO NO2 SENSORS INSTALLED 48" - 60" ABOVE FINISHED FLOOR. INSTALL ALL COMPONENTS IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTALLATION GUIDELINES. PROVIDE A VARIABLE FREQUENCY DRIVE MOUNTED IN STORAGE 117.
 11. PROVIDE 14" HARDWARE CLOTH COVERING EXHAUST DUCT SECURED TO DUCT WITH ANGLE IRON, HEX BOLTS, WASHERS, AND NUTS. DUCT INLET SHOULD BE LOCATED APPROXIMATELY 12" AFF.
 12. CONTRACTOR SHALL PROVIDE WALL CAP TERMINATION WITH A MINIMUM INLET SIZE OF 4" DIA. PROVIDE EQUAL WALL CAP. CONTRACTOR SHALL PROVIDE NECESSARY FITTINGS/TRANSITIONS TO TERMINATE DRYER EXHAUST THROUGH WALL.
 13. RESIDENTIAL KITCHEN EXHAUST HOOD (BY OTHERS), MAXIMUM 399 CFM AIRFLOW. CONTRACTOR SHALL VERIFY KITCHEN HOOD FAN SHALL BE BALANCED TO NO HIGHER THAN 399 CFM.
 14. CONTRACTOR SHALL INSTALL AIR HANDLING UNIT IN HORIZONTAL CONFIGURATION. HORIZONTAL AIR HANDLING UNIT SHALL BE MOUNTED TO STRUCTURAL MEMBERS USING VIBRATION ISOLATORS. ROUTE REFRIGERANT LINES FROM AIR HANDLING UNIT TO HEAT PUMP IN A CONCEALED FASHION. CONTRACTOR SHALL PROVIDE FULLY INSULATED UNIT CONNECTION SIZE SCHEDULE 40 PVC CONDENSATE LINE ROUTED TO STORMWATER PIPING. PROVIDE CONDENSATE PUMP AS REQUIRED. SEE PLUMBING DRAWINGS FOR INFORMATION.

- GENERAL NOTES**
- A. REFER TO GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS.
 - B. ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. SEE GENERAL NOTES.
 - C. MECHANICAL DRAWINGS ARE DIAGRAMMATIC. SEE GENERAL NOTES.
 - D. MECHANICAL CONTRACTOR SHALL COORDINATE THE PURCHASE OF ALL NECESSARY EQUIPMENT, MATERIAL, ETC. WITH OWNER TO FULFILL THE NECESSARY REQUIREMENTS TO COMPLY WITH THE BUILD AMERICA, BUY AMERICA ACT (BABAA).
 - E. CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSTALLATION WORK WITH OTHER TRADES TO AVOID CONFLICTS. SEE M001 GENERAL NOTES FOR COORDINATION DRAWING REQUIREMENTS.
 - F. MAINTAIN A 1 FOOT MINIMUM SEPARATION BETWEEN MECHANICAL INTAKE AND BUILDING EXHAUST AND PLUMBING VENTS.
 - G. MAINTAIN A 3 FOOT MINIMUM SEPARATION BETWEEN BUILDING EXHAUST AND ANY BUILDING OPENINGS.
 - H. ALL EXHAUST WALL CAPS TO BE PROVIDED WITH A FLAPPER-TYPE BACKDRAFT DAMPER AND INLET SCREEN. REMOVE INLET SCREEN ON DRYER VENT WALL CAPS.
 - I. ALL DUCT PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE PROVIDED WITH THE REQUIRED DAMPER. COORDINATE FINAL WALL RATING REQUIREMENTS WITH ARCHITECT AND GENERAL CONTRACTOR.
 - J. ANY DUCTS (EXCEPT DRYER AND RANGE HOOD DUCTS) THAT PENETRATE THE MEMBRANE OF THE RATED FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A UL LISTED, DYNAMICALLY RATED CEILING RADIATION DAMPER LISTED FOR THIS SPECIFIC APPLICATION AND INSTALLED IN ACCORDANCE WITH ITS UL DETAIL.
 - K. DRYER VENT ROUTING SHALL NOT EXCEED FOUR 90-DEGREE ELBOWS OR EQUIVALENT.
 - L. PROVIDE CONDENSATE DRAIN PIPING FROM EACH COIL CONNECTION TO AN APPROVED DISCHARGE LOCATION. CONDENSATE SHALL BE PIPED FULL SIZE AND CONNECTED VIA AN INDIRECT CONNECTION. CONDENSATE PIPING SHALL BE BY THE MECHANICAL CONTRACTOR.
 - M. MOUNT ALL THERMOSTATS ABOVE FINISHED FLOOR AT HEIGHT APPROVED BY ARCHITECT. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND LIGHTING CONTROL LOCATIONS.



PROVIDE WALL LOUVER TERMINATION FOR EXHAUST DUCT, X-VENT-BOX, SERIES S (OR EQUAL) COMPATIBLE WITH EXTERIOR BUILDING CONSTRUCTION FOR DOUBLE DUCT TERMINATION INCLUDING (2) 6" DIA BATHROOM EXHAUST TERMINATIONS. COORDINATE FINAL TERMINATION LOCATION AND BUILDING EXTERIOR CONSTRUCTION WITH ARCHITECT AND GENERAL CONTRACTOR. EXHAUST TERMINATIONS MUST MAINTAIN A MINIMUM DISTANCE OF 10'-0" FROM ALL OA INTAKES AND 3'-0" FROM ALL BUILDING OPENINGS. COORDINATE FINAL COLOR/FINISH WITH ARCHITECT.

30X48 ARCHITECTURAL VENT. COORDINATE LOCATION WITH ARCHITECTURAL DRAWINGS. PROVIDE INSULATED BLANK-OFF PANEL.

OUTDOOR AIR INTAKE. PROVIDE 10X3 PRICE 630 LOUVERED INTAKE GRILLE (OR EQUAL). PROVIDE TRANSITIONS AS NEEDED TO ROUTE DUCT THROUGH SOFFIT.

TERMINATE CONDENSATE FROM AHU-1 WITHIN LANDSCAPE DRYWELL. COORDINATE FINAL LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR. PROVIDE CONDENSATE PUMP AS REQUIRED.

ROUTE CONDENSATE DRAIN PIPING TOWARDS DRAIN LOCATED IN MECH 110A. MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT SLOPING TOWARDS THE DRAIN. PROVIDE AIR GAP FITTING AND CONDENSATE PUMP AS REQUIRED.

ROUTE CONDENSATE DRAIN PIPING TOWARDS DRAIN LOCATED IN MECH 110A. MAINTAIN A MINIMUM SLOPE OF 1/8" PER FOOT SLOPING TOWARDS THE DRAIN. PROVIDE AIR GAP FITTING AND CONDENSATE PUMP AS REQUIRED.

INSTALL BOTTOM OF DUCT AT A MIN. 14'-0" ABOVE AFF. COVER OPENING WITH 1/4" WIRE MESH SCREEN.

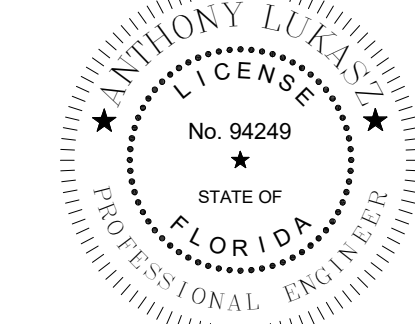
TERMINATE EXHAUST WITH WALL CAP. PROVIDE INTEGRAL BACKDRAFT DAMPER AND INSECT SCREEN. COORDINATE FINAL LOCATION, COLOR, AND FINISH WITH ARCHITECT AND GENERAL CONTRACTOR.

TERMINATE CONDENSATE FROM IDU-1 WITHIN LANDSCAPE DRYWELL. COORDINATE FINAL LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.

PROVIDE "X" AS 16X16 PRICE 630 LOUVERED EXHAUST GRILLE WITH 3/4" BLADE SPACING (OR EQUAL).

GROUND LEVEL FLOOR PLAN
3/16" = 1'-0"

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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

#	Date	Description

PROJECT NO: **23.014**

ISSUE DATE: **09.17.2024**

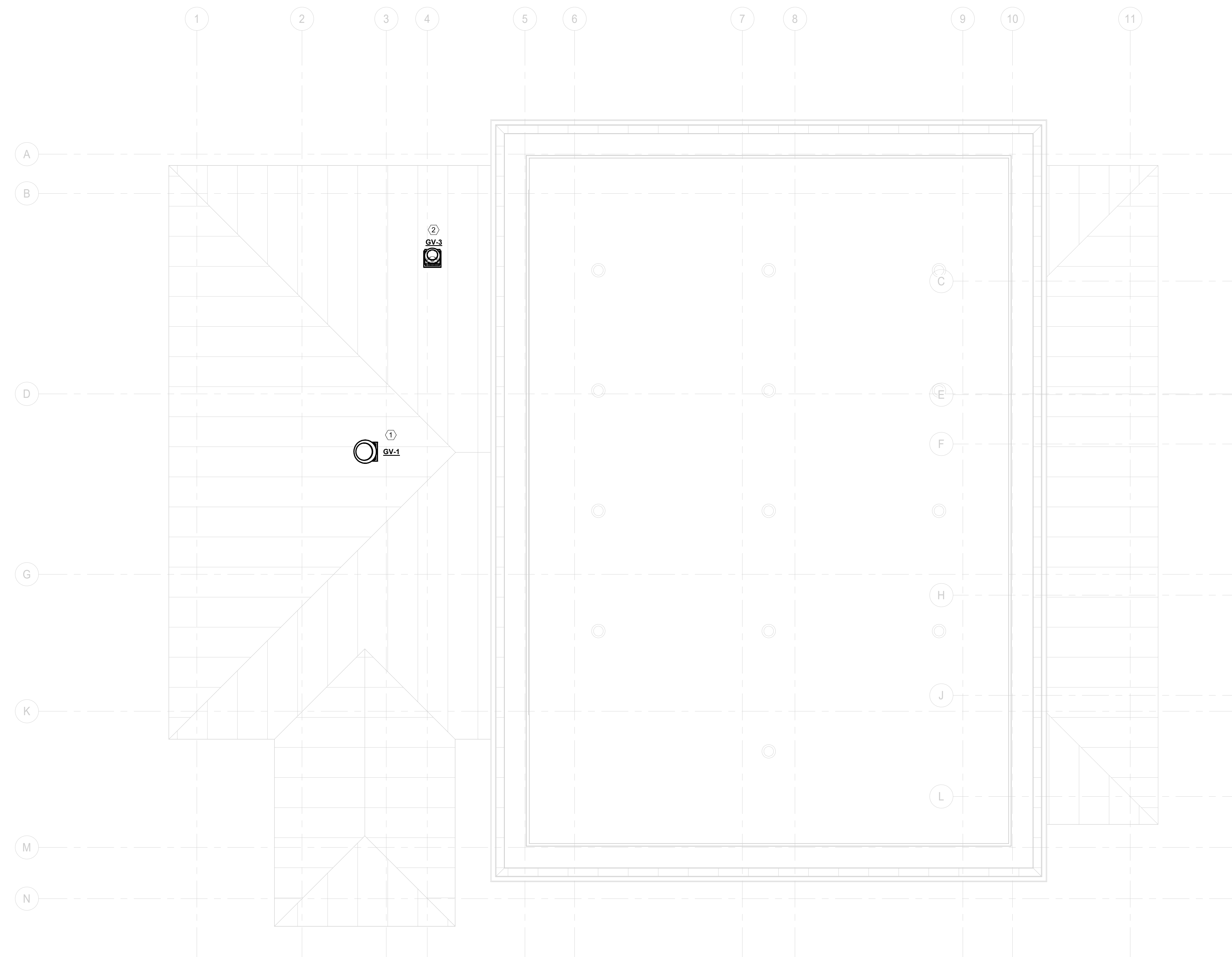
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ROOF PLAN

SHEET NUMBER:

M110

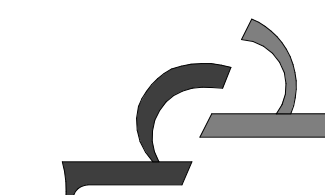
EDITION:
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- # KEYNOTES**
- CONTRACTOR SHALL PROVIDE GRAVITY RELIEF VENTILATOR (GV-1) IN THIS APPROXIMATE LOCATION. PROVIDE LOREN COOK MODEL PR-12 GRAVITY VENTILATOR (OR EQUAL). INSTALL GRAVITY VENTILATOR PARALLEL WITH ROOF SURFACE. CONTRACTOR SHALL MOUNT AND INSTALL GRAVITY VENTILATOR AND ASSOCIATED ROOF CURB ACCORDING TO MANUFACTURER'S INSTALLATION GUIDELINES AND IN ACCORDANCE WITH ALL FBC 2023 MECHANICAL WIND LOAD REQUIREMENTS. COORDINATE FINAL PITCH, LOCATION, AND FINISH WITH ARCHITECT AND GENERAL CONTRACTOR.
 - CONTRACTOR SHALL PROVIDE GRAVITY RELIEF VENTILATOR (GV-3) IN THIS APPROXIMATE LOCATION. PROVIDE LOREN COOK MODEL PR-12 GRAVITY VENTILATOR (OR EQUAL). INSTALL GRAVITY VENTILATOR PARALLEL WITH ROOF SURFACE. CONTRACTOR SHALL MOUNT AND INSTALL GRAVITY VENTILATOR AND ASSOCIATED ROOF CURB ACCORDING TO MANUFACTURER'S INSTALLATION GUIDELINES AND IN ACCORDANCE WITH ALL FBC 2023 MECHANICAL WIND LOAD REQUIREMENTS. COORDINATE FINAL PITCH, LOCATION, AND FINISH WITH ARCHITECT AND GENERAL CONTRACTOR.

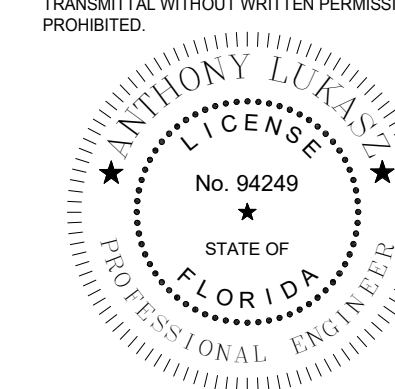
- GENERAL NOTES**
- REFER TO GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS.
 - ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. SEE GENERAL NOTES.
 - MECHANICAL DRAWINGS ARE DIAGRAMMATIC. SEE GENERAL NOTES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE THE PURCHASE OF ALL NECESSARY EQUIPMENT, MATERIAL, ETC. WITH OWNER TO FULFILL THE NECESSARY REQUIREMENTS TO COMPLY WITH THE BUILD AMERICA, BUY AMERICA ACT (BABAA).
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSTALLATION WORK WITH OTHER TRADES TO AVOID CONFLICTS. SEE GENERAL NOTES FOR COORDINATION DRAWING REQUIREMENTS.
 - MAINTAIN A 10 FOOT MINIMUM SEPARATION BETWEEN MECHANICAL INTAKE AND BUILDING EXHAUST AND PLUMBING VENTS.
 - MAINTAIN A 3 FOOT MINIMUM SEPARATION BETWEEN BUILDING EXHAUST AND ANY BUILDING OPENINGS.
 - ANY DUCTS (EXCEPT DRYER AND RANGE HOOD DUCTS) THAT PENETRATE THE MEMBRANE OF THE RATED FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A UL LISTED, DYNAMICALLY RATED CEILING RADIATION DAMPER LISTED FOR THIS SPECIFIC APPLICATION AND INSTALLED IN ACCORDANCE WITH ITS UL DETAIL.

1 ROOF PLAN
3/16" = 1'-0"



Behar Peteranecz
ARCHITECTURE | INTERIORS
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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

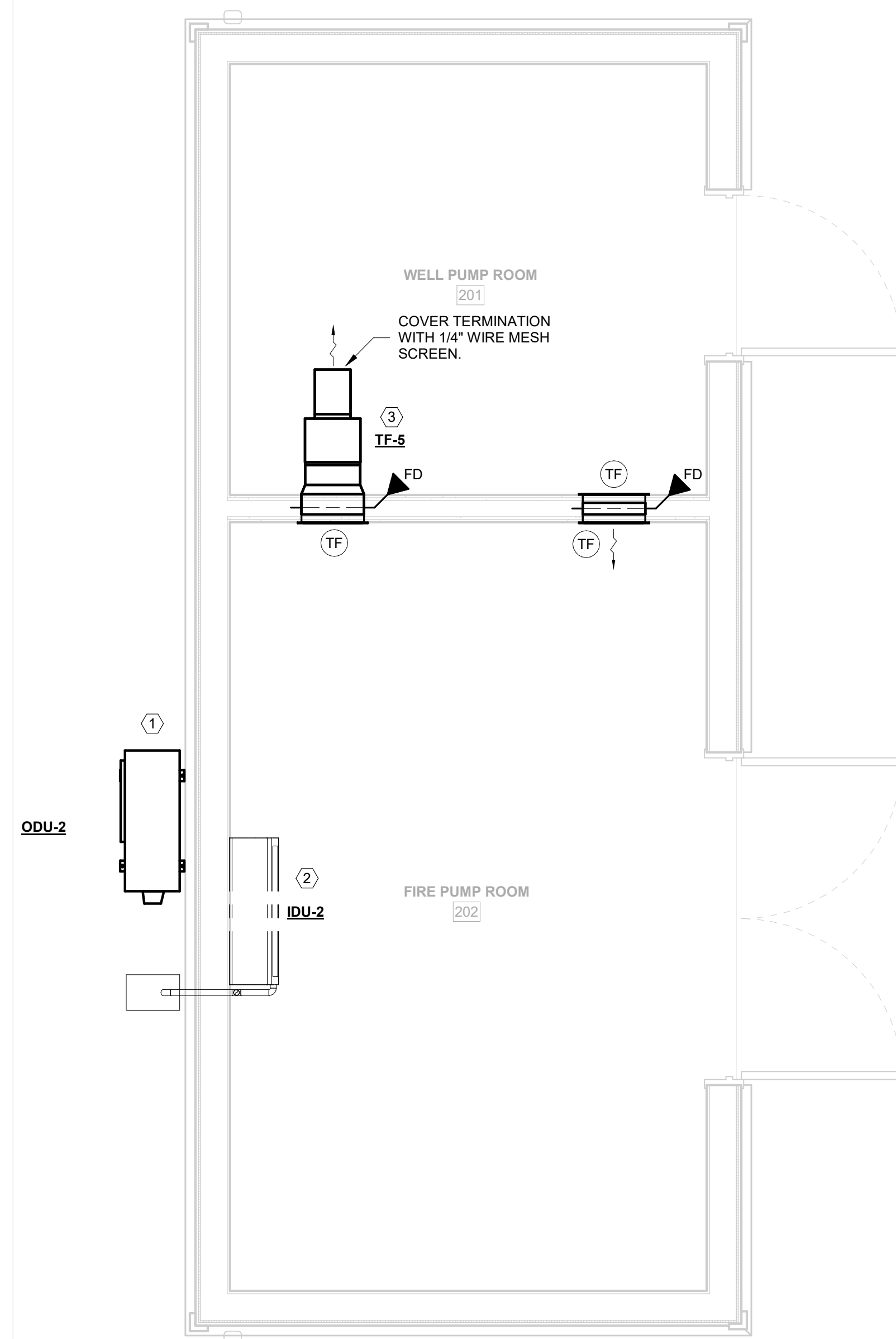
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**ENLARGED
PUMP ROOM
PLAN**

SHEET NUMBER:
M200

EDITION:
PERMIT SET

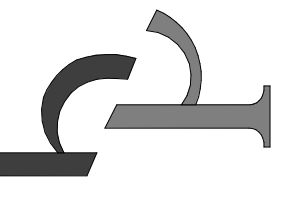
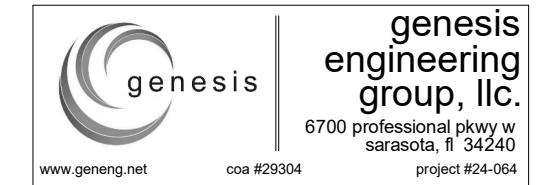
- # KEYNOTES
- CONTRACTOR SHALL INSTALL OUTDOOR UNIT IN THIS APPROXIMATE LOCATION. INSTALL UNIT ON EXTERIOR WALL. PROVIDE UNIT WITH WALL MOUNTING BRACKET. INSTALL UNIT ACCORDING TO MANUFACTURER'S INSTALLATION GUIDELINES AND IN ACCORDANCE WITH ALL FBC 2023 MECHANICAL WIND LOAD REQUIREMENTS.
 - CONTRACTOR SHALL INSTALL MINI-SPLIT UNIT IN THIS APPROXIMATE LOCATION. UNIT SHALL BE WALL HUNG USING VIBRATION ISOLATORS. ROUTE REFRIGERANT LINES FROM MINI-SPLIT UNIT TO HEAT PUMP IN A CONCEALED FASHION. CONTRACTOR SHALL PROVIDE FULLY INSULATED UNIT CONNECTION SIZE SCHEDULE 40 PVC CONDENSATE LINE ROUTED TO SPLASH BLOCK. PROVIDE CONDENSATE PUMP AS REQUIRED. SEE PLUMBING DRAWINGS FOR INFORMATION.
 - CONTRACTOR SHALL INSTALL INLINE TRANSFER FAN FOR AIR CIRCULATION IN THIS APPROXIMATE LOCATION. COORDINATE WALL RATING REQUIREMENTS WITH ARCHITECT AND GENERAL CONTRACTOR AND PROVIDE FIRE DAMPERS AS REQUIRED. SUSPEND EXHAUST FAN FROM STRUCTURE USING VIBRATION ISOLATORS. COORDINATE FINAL MOUNTING HEIGHT BELOW CEILING AND LOCATION WITH ARCHITECT AND GENERAL CONTRACTOR.

- GENERAL NOTES
- REFER TO M001 GENERAL NOTES AND PROJECT SPECIFICATIONS FOR ALL REQUIREMENTS.
 - ALL INDICATED WORK SHALL BE PERFORMED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. SEE GENERAL NOTES.
 - MECHANICAL DRAWINGS ARE DIAGRAMMATIC. SEE GENERAL NOTES.
 - MECHANICAL CONTRACTOR SHALL COORDINATE THE PURCHASE OF ALL NECESSARY EQUIPMENT, MATERIAL, ETC. WITH OWNER TO FULFILL THE NECESSARY REQUIREMENTS TO COMPLY WITH THE BUILD AMERICA, BUY AMERICA ACT (BABAA).
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF INSTALLATION WORK WITH OTHER TRADES TO AVOID CONFLICTS. SEE GENERAL NOTES FOR COORDINATION DRAWING REQUIREMENTS.
 - MAINTAIN A 10 FOOT MINIMUM SEPARATION BETWEEN MECHANICAL INTAKE AND BUILDING EXHAUST AND PLUMBING VENTS.
 - MAINTAIN A 3 FOOT MINIMUM SEPARATION BETWEEN BUILDING EXHAUST AND ANY BUILDING OPENINGS.
 - ALL EXHAUST WALL CAPS TO BE PROVIDED WITH A FLAPPER-TYPE BACKDRAFT DAMPER AND INLET SCREEN. REMOVE INLET SCREEN ON DRYER VENT WALL CAPS.
 - ALL DUCT PENETRATIONS THROUGH RATED ASSEMBLIES SHALL BE PROVIDED WITH THE REQUIRED DAMPER. COORDINATE FINAL WALL RATING REQUIREMENTS WITH ARCHITECT AND GENERAL CONTRACTOR.
 - ANY DUCTS (EXCEPT DRYER AND RANGE HOOD DUCTS) THAT PENETRATE THE MEMBRANE OF THE RATED FLOOR/CEILING ASSEMBLY SHALL BE PROTECTED WITH A UL LISTED, DYNAMICALLY RATED CEILING RADIATION DAMPER LISTED FOR THIS SPECIFIC APPLICATION AND INSTALLED IN ACCORDANCE WITH ITS UL DETAIL.
 - DRYER VENT ROUTING SHALL NOT EXCEED FOUR 90-DEGREE ELBOWS OR EQUIVALENT.
 - PROVIDE CONDENSATE DRAIN PIPING FROM EACH COIL CONNECTION TO AN APPROVED DISCHARGE LOCATION. CONDENSATE SHALL BE PIPED FULL SIZE AND CONNECTED VIA AN INDIRECT CONNECTION. CONDENSATE PIPING SHALL BE BY THE MECHANICAL CONTRACTOR.
 - MOUNT ALL THERMOSTATS ABOVE FINISHED FLOOR AT HEIGHT APPROVED BY ARCHITECT. COORDINATE LOCATION WITH ARCHITECTURAL INTERIOR ELEVATIONS AND LIGHTING CONTROL LOCATIONS.



① ENLARGED PUMP ROOM FLOOR PLAN
1/2" = 1'-0"

CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT COMPLIES WITH THE REQUIREMENTS OF THE BUILD AMERICA, BUY AMERICA ACT (BABAA).



FAN SCHEDULE										
TAG	MANUFACTURER	MODEL	CFM	E.S.P. (IN. W.G.)	SONES	MOTOR				NOTES
						WATTS	HP	RPM	V / PH	
EF-1	LOREN COOK	GCVF-180	120	0.25	2	15	-	1675	115 / 1	1, 2, 3, 4, 5
EF-2	LOREN COOK	GCVF-180	120	0.25	2	15	-	1675	115 / 1	1, 2, 3, 4, 5
EF-3	LOREN COOK	210SQN-HP	6000	0.75	26	-	3.00	1547	208 / 1	1, 2, 3, 4, 6
EF-4	LOREN COOK	GNVF-700	400	0.50	13	-	0.33	1330	115 / 1	1, 2, 3, 4, 7
TF-5	LOREN COOK	GN-168	150	0.25	2	56	-	1160	115 / 1	1, 2, 3, 4, 8

NOTES:

- PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO FAN.
- PROVIDE FAN WITH GRAVITY BACKDRAFT DAMPER. REFER TO STANDARD MECHANICAL DETAILS FOR FURTHER DETAILS.
- PROVIDE WITH FACTORY MOUNTED DISCONNECT SWITCH.
- PROVIDE FAN WITH SPEED CONTROLLER. MOUNT SPEED CONTROLLER IN 2X4 METALLIC BOX ADJACENT TO FAN IN CEILING. TEST AND BALANCE CONTRACTORS SHALL ADJUST FAN PERFORMANCE THROUGH USE OF SPEED CONTROLLER.
- FAN SHALL BE ECM-DRIVEN. TEST AND BALANCE CONTRACTOR SHALL ADJUST FAN SPEED USING SET SCREW ON FAN CONTROLS. PROVIDE FAN WITH INTEGRAL GRAVITY BACKDRAFT DAMPER, ALUMINUM GRILLE, AND FACTORY MOUNTED DISCONNECT SWITCH. FAN SHALL RUN INTERMITTENTLY AND SHALL BE INTERLOCKED WITH BATHROOM LIGHTS.
- PROVIDE VARIABLE FREQUENCY DRIVE. TEST AND BALANCE CONTRACTOR SHALL ADJUST SPEED VFD FAN CONTROLS. PROVIDE FAN WITH INTEGRAL GRAVITY BACKDRAFT DAMPER, ALUMINUM GRILLE, AND FACTORY MOUNTED DISCONNECT SWITCH. FAN SHALL RUN INTERMITTENTLY AND SHALL BE INTERLOCKED WITH GAS DETECTION SYSTEM.
- FAN SHALL BE ECM-DRIVEN. TEST AND BALANCE CONTRACTOR SHALL ADJUST SPEED USING SET SCREW ON FAN CONTROLS. PROVIDE FAN WITH INTEGRAL GRAVITY BACKDRAFT DAMPER, ALUMINUM GRILLE, AND FACTORY MOUNTED DISCONNECT SWITCH. FAN SHALL RUN INTERMITTENTLY AND SHALL BE INTERLOCKED WITH WALL SWITCH.
- FAN SHALL BE ECM-DRIVEN. TEST AND BALANCE CONTRACTOR SHALL ADJUST FAN SPEED USING SET SCREW ON FAN CONTROLS. PROVIDE FAN WITH INTEGRAL GRAVITY BACKDRAFT DAMPER, ALUMINUM GRILLE, AND FACTORY MOUNTED DISCONNECT SWITCH. FAN SHALL BE INTERLOCKED WITH IDU/ODU-2. FAN SHALL OPERATE WHILE IDU-2 IS OPERATING.

DUCTLESS AIR CONDITIONER SCHEDULE										
EQUIPMENT TAG	FAN CFM MIN / MAX	COOLING		HEATING		ELECTRICAL			MANUFACTURER & MODEL	NOTES
		MBH	SEER2	MBH	HSPF2	V.-PH.	MCA	MOCP		
ODU-1,2	-	12.0	21.4	12.0	9.20	208 / 1	15	15	LENNOX MHB012S4S-1P	2, 5, 6, 7, 8
IDU-1,2	195 / 325	12.0	-	12.0	-	208 / 1	POWERED FROM ODU	LENNOX MWHB012S4-1P		1, 3, 4, 5, 7, 8

NOTES:

- INDOOR UNIT SHALL BE WALL MOUNTED DUCTLESS.
- OUTDOOR UNIT SHALL BE EQUIPMENT PAD MOUNTED UNLESS OTHERWISE NOTED ON SHEET. MAINTAIN MANUFACTURER REQUIRED MINIMUM WORKING CLEARANCES AROUND EQUIPMENT. COORDINATE MOUNTING REQUIREMENTS WITH GENERAL CONTRACTOR. PROVIDE HURRICANE TIE-DOWN CLIPS AS INDICATED IN MANUFACTURER'S INSTALLATION GUIDELINES.
- PROVIDE CONDENSATE DRAIN LIFT MECHANISM. ROUTE INSULATED CONDENSATE LINE ALONG WITH REFRIGERANT LINES TO SPILL IN LANDSCAPED AREA AWAY FROM ALL WALKWAYS.
- PROVIDE WITH HARD WIRED WALL MOUNTED THERMOSTAT.
- SYSTEM TO USE REFRIGERANT R-410A. SYSTEM SHALL BE RATED FOR 100 FEET OF LIFT AND EQUIVALENT LENGTH.
- PROVIDE MANUFACTURER'S HAIL PROTECTION GUARDS.
- PROVIDE REFRIGERANT LINESET SIZED PER MANUFACTURER'S EQUIVALENT LENGTH AND ELEVATION REQUIREMENTS.
- UNIT MODELS, EFFICIENCIES AND CAPACITIES AS SCHEDULED REPRESENT THE MINIMUM PERFORMANCE REQUIREMENT THAT MUST BE MET. ALTERNATIVES MUST MEET THE PERFORMANCE REQUIREMENTS INDICATED IN THIS SCHEDULE AT A MINIMUM. ANY CHANGES TO THE ELECTRICAL POWER SYSTEM REQUIRED DUE TO EQUIPMENT SUBSTITUTIONS SHALL BE THE SOLE RESPONSIBILITY OF THIS CONTRACTOR AND SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

ELECTRIC UNIT HEATER SCHEDULE								
TAG	MANUFACTURER	MODEL	BTUH	KW LOW / HIGH	INSTALLED WEIGHT	MOTOR		NOTES
						MCA / MOCP	V / PH	
UH-1-X	REZDOR	EUH-15	51,182	15.0 / 5.6 / 11.3	82	32.5 / 40.0	208 / 3	1-3

NOTES:

- HEATER SHALL BE UL LISTED. PROVIDE SINGLE POINT ELECTRICAL CONNECTION, UNIT MOUNTED DISCONNECT, THERMAL CUT-OUT, AND INTERNAL, TAMPER-PROOF THERMOSTAT.
- PROVIDE UNIVERSAL WALL/CEILING MOUNTING BRACKET. INSTALL FOR HORIZONTAL DISCHARGE. MOUNT 14"-0" ABOVE FINISHED FLOOR.
- INSTALL AND ADJUST THERMOSAT TO 55 DEGREE FAHRENHEIT FOR FREEZE PROTECTION.

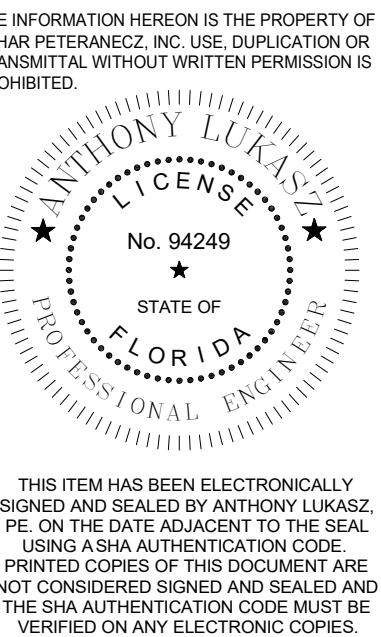
AIR DEVICE SCHEDULE							
TAG	DIFFUSER SIZE	NECK SIZE	MAX. FLOW (CFM)	FINISH	MANUFACTURER	MODEL	NOTES
A	24X24	8" DIA.	200	WHITE	PRICE	SPD	1, 2
	24X24	10" DIA.	400				1, 2
	24X24	12" DIA.	550				1, 2
B	8X6	4" DIA.	25	WHITE	PRICE	620	1, 3, 5
	8X6	6" DIA.	100				
	12X8	8" DIA.	350				
L	24X24	12X12	450	WHITE	PRICE	ASPD	2
M	12X8	12X8	250	WHITE	PRICE	635	3, 4
N	14X14	14X14	450	WHITE	PRICE	635	3, 4
	16X16	16X16	600				3, 4
TF	14X10	14X10	400	WHITE	PRICE	630	6

KEY NOTES:

- FLEX DUCT SIZE TO MATCH NECK SIZE. MAXIMUM LENGTH OF FLEX SHALL BE 5'-0". BALANCE OF DUCT SHOWN ON PLAN SHALL BE STEEL DUCT SAME SIZE AS NECK SIZE, EXTERNALLY INSULATED.
- PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS. PROVIDE 18" X 18" BACKPAN SIZE WITH 24" X 24" MODULE.
- PROVIDE RUNOUT BRANCH DUCT TO AIR DEVICE SAME SIZE AS AIR DEVICE NECK UNLESS OTHERWISE NOTED ON PLANS.
- ALUMINUM LOUVERED RETURN GRILL WITH 45 DEGREE DEFLECTION, 3/4" BLADE SPACING, AND FACE ADJUSTABLE OPPOSED BLADE BALANCING DAMPER.
- ALUMINUM LOUVERED SUPPLY GRILLE. PROVIDE WITH 3/4" BLADE SPACING AND FACE ADJUSTABLE OPPOSED BLADE BALANCING DAMPER.
- ALUMINUM LOUVERED TRANSFER GRILLE. PROVIDE 3/4" BLADE SPACING. PROVIDE FIRE DAMPER AS REQUIRED.

GENERAL NOTES:

- BORDER TYPE SHALL BE SELECTED AS COORDINATED WITH ARCHITECTS REFLECTED CEILING PLAN.
- PROVIDE SQUARE TO ROUND TRANSITIONS AS REQUIRED FOR COORDINATION OF DUCT AND AIR DEVICE NECK.
- INSULATE THE TOPS OF ALL SUPPLY AIR DEVICES WITH 2" FIBERGLASS DUCT WRAP. SEAL AIR TIGHT AROUND EDGES TO PREVENT CONDENSATION.
- ALL DEVICES ARE TO BE ALUMINUM UNLESS OTHERWISE NOTED.



FOUNTAIN COMMUNITY
COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE: SCHEDULES

SHEET NUMBER: M310

EDITION: PERMIT SET

ISSUED DRAWING LOG:

#	Date	Description
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12		

PROJECT NO: 23.014

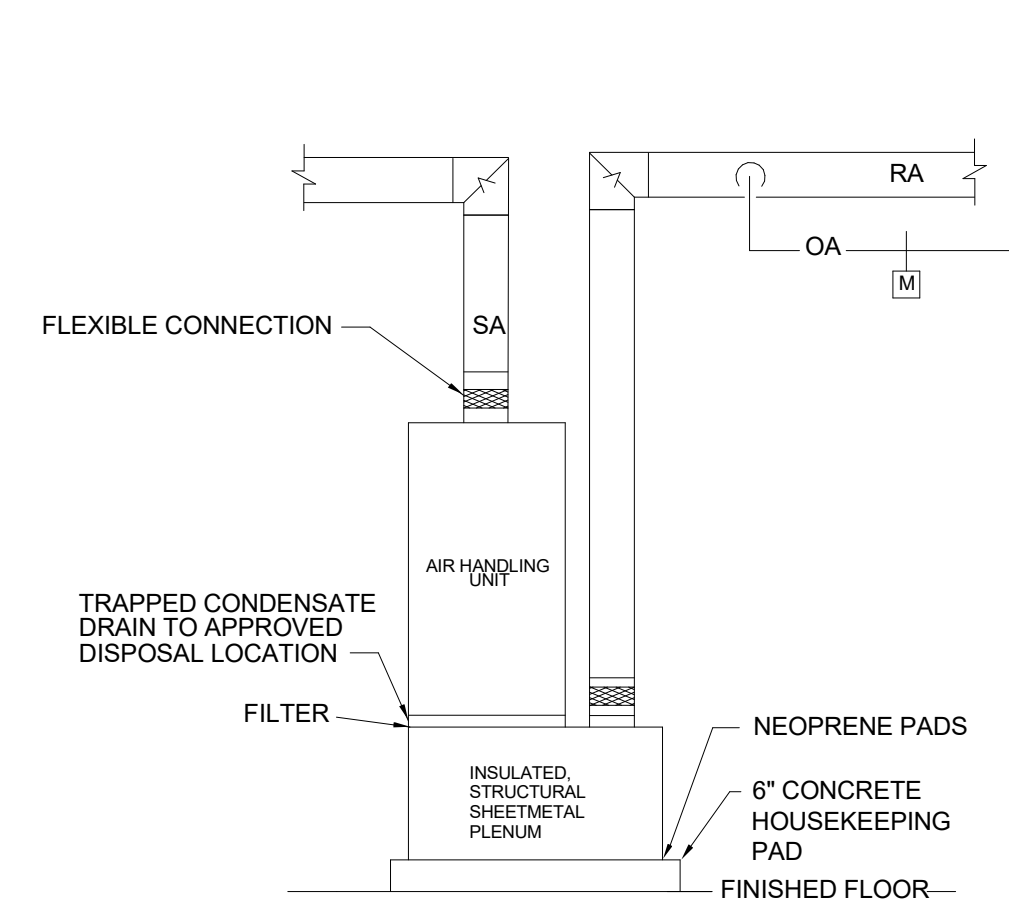
ISSUE DATE: 09.17.2024

DRAWING TITLE: DETAILS

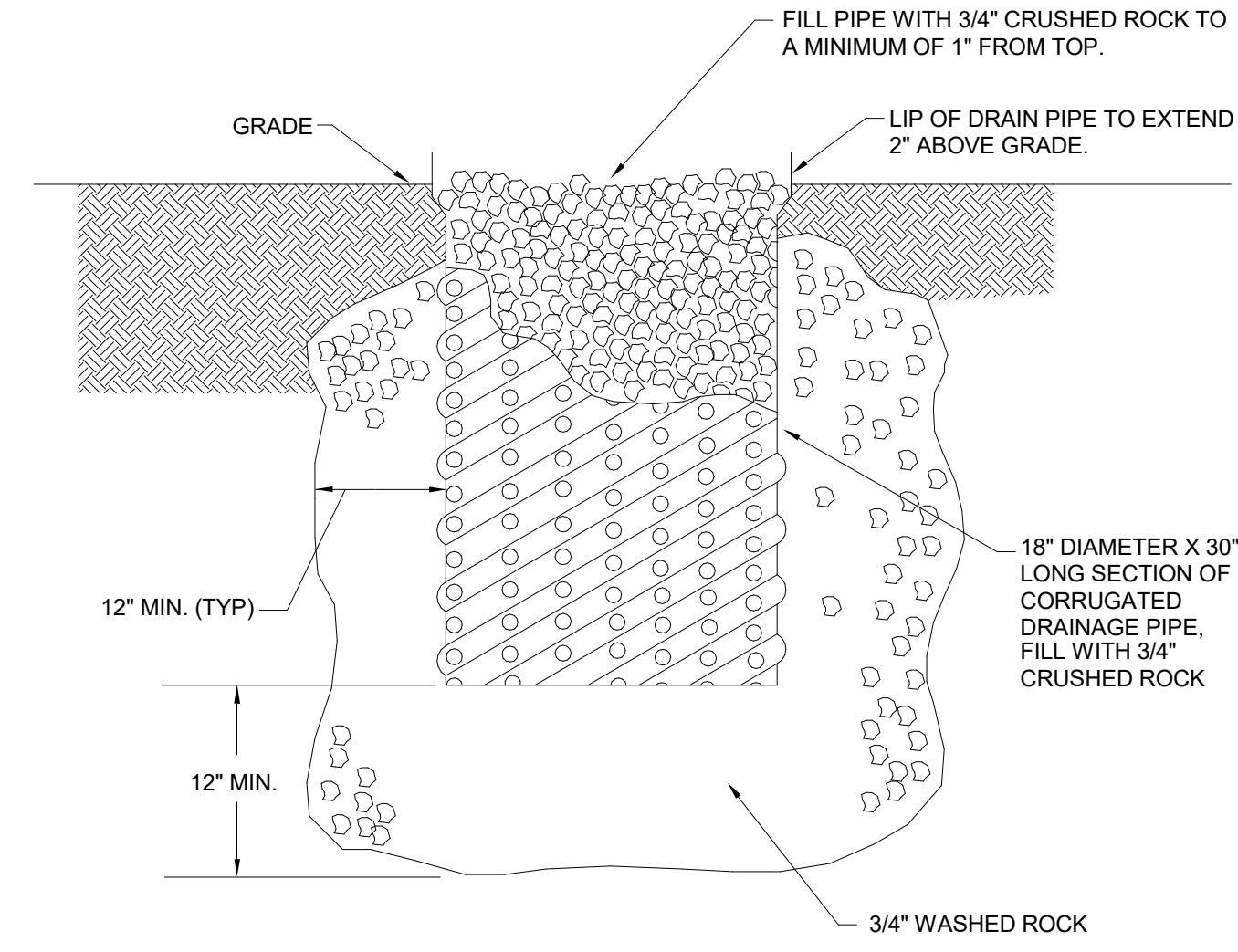
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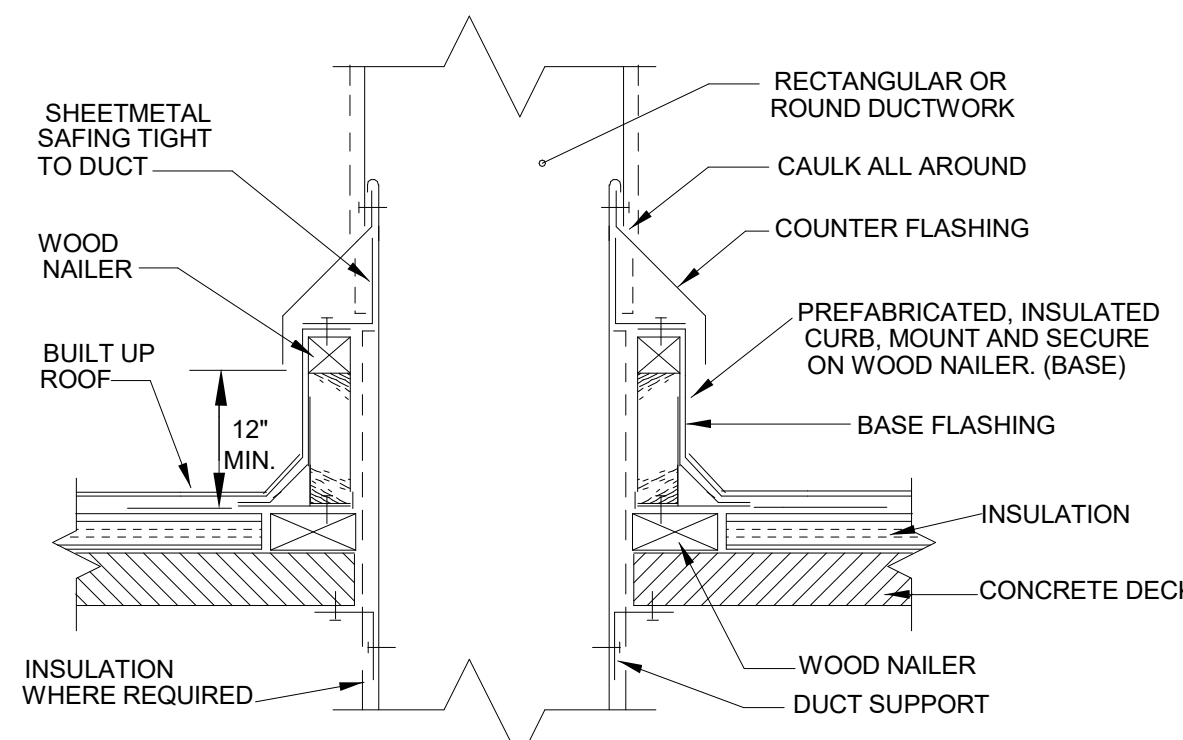
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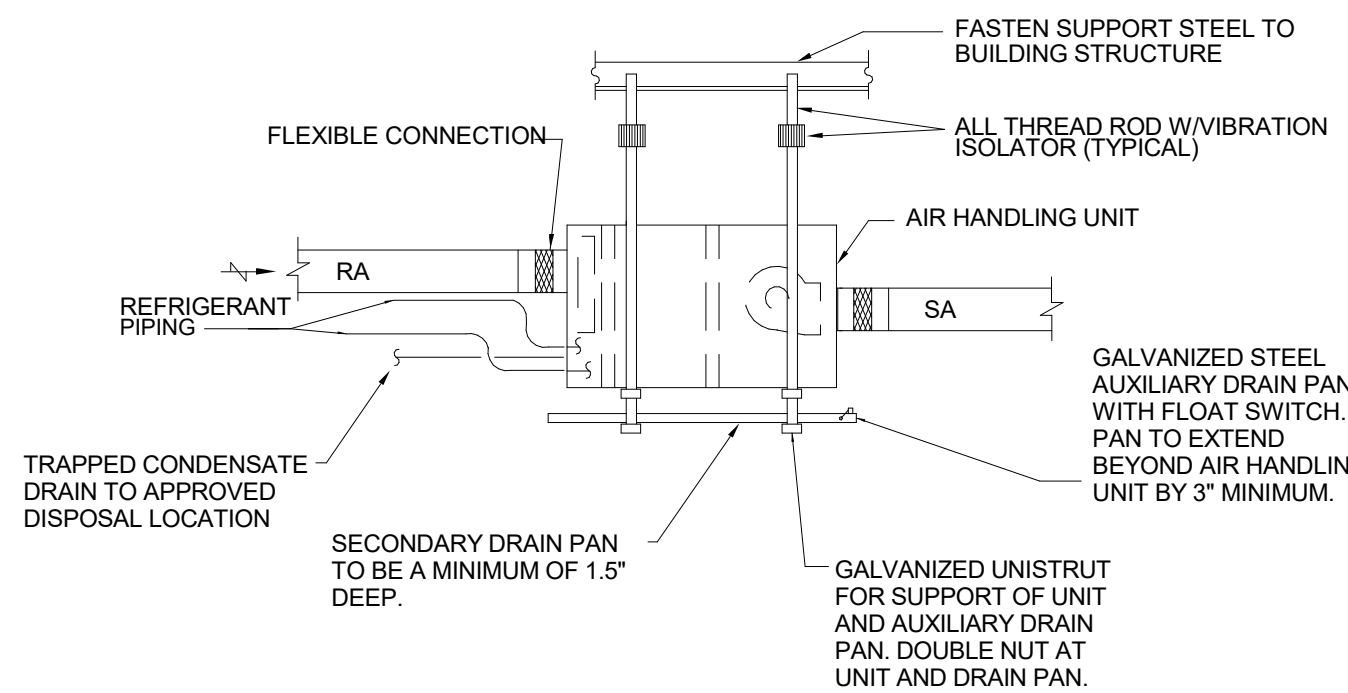
VERTICAL AIR HANDLING UNIT DETAIL
NOT TO SCALE



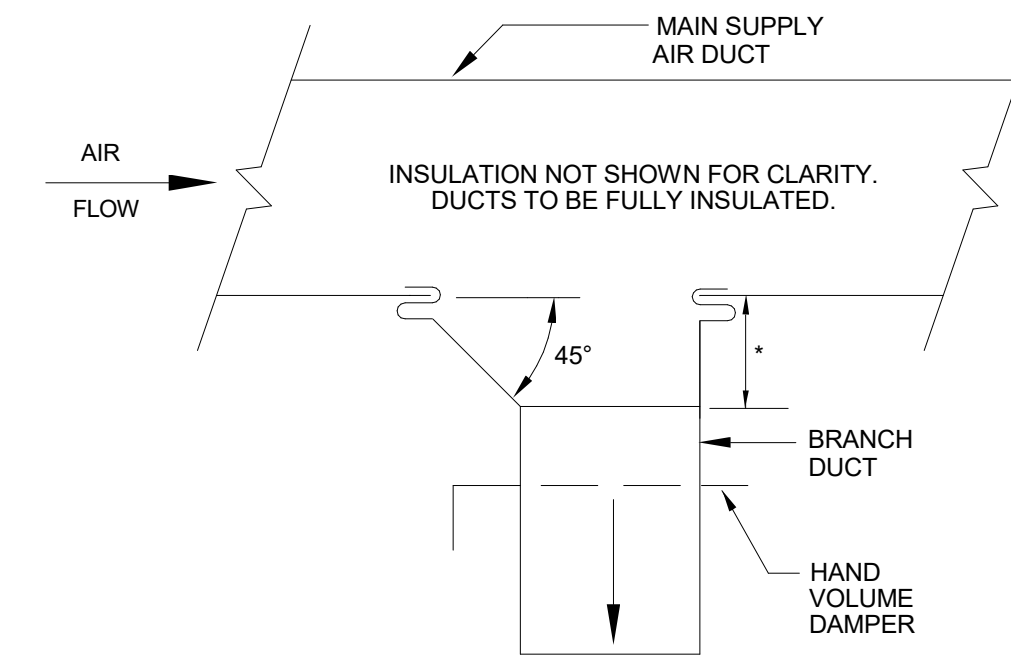
CONDENSATE DRYWELL DETAIL
NOT TO SCALE



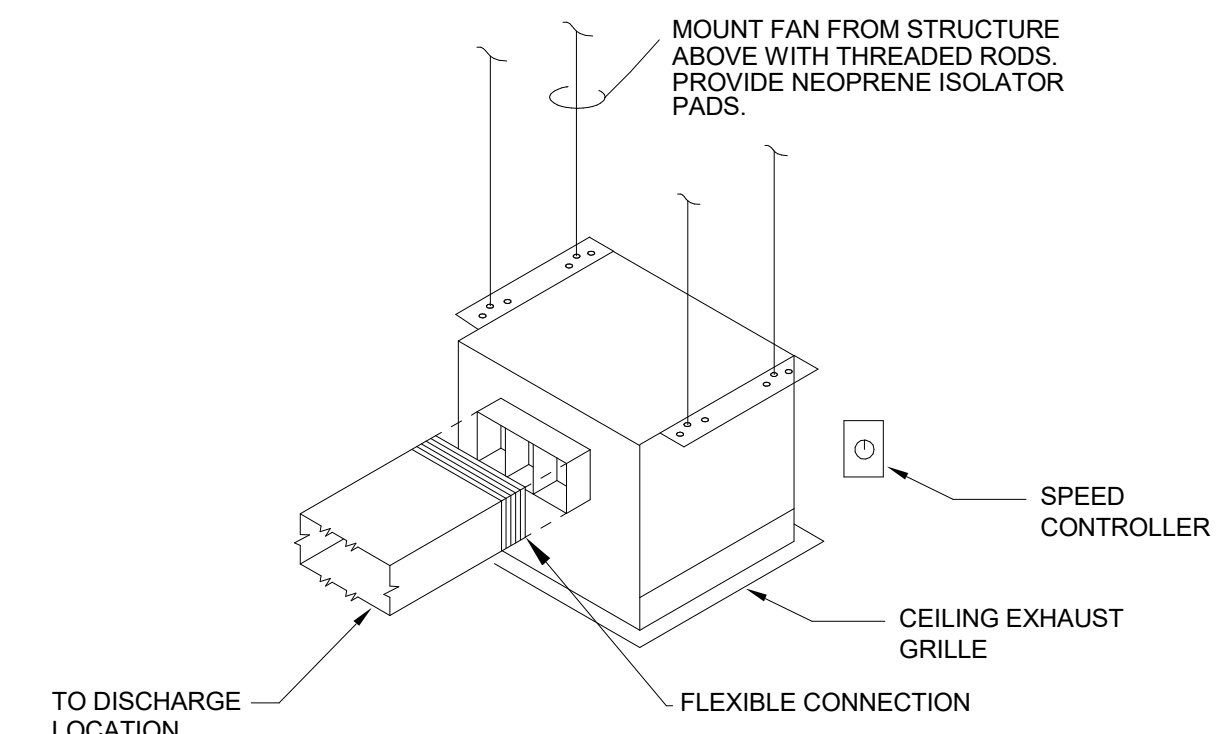
DUCT PENETRATION THRU ROOF
NOT TO SCALE



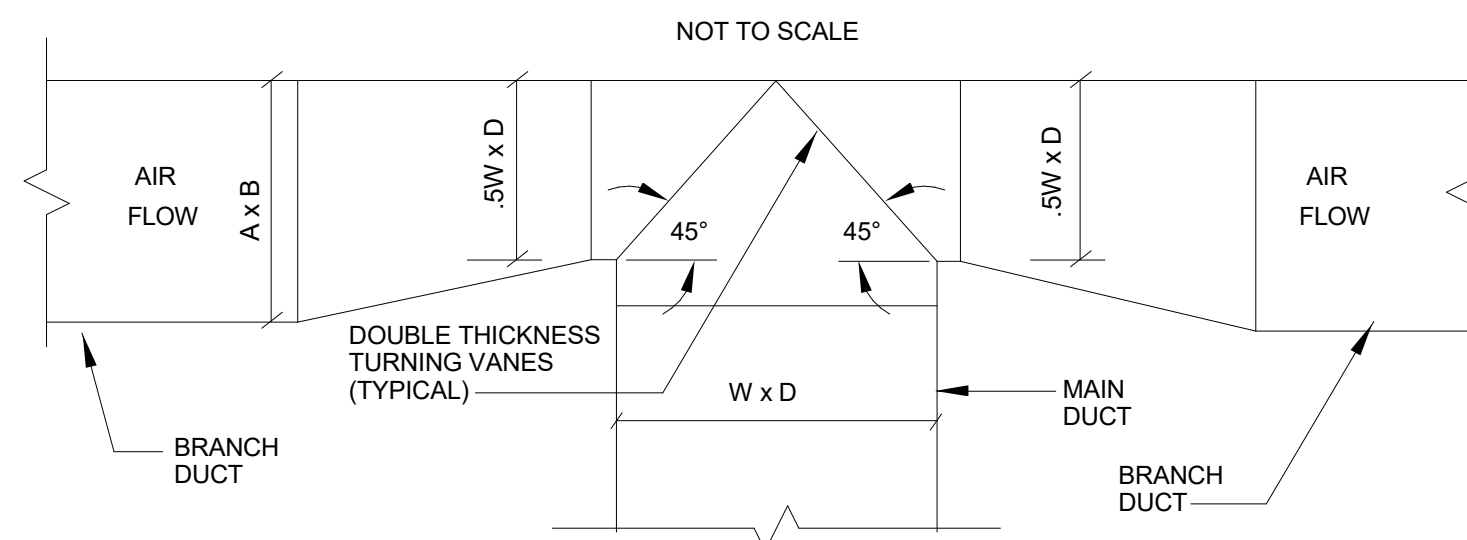
SPLIT SYSTEM AIR HANDLING UNIT DETAIL
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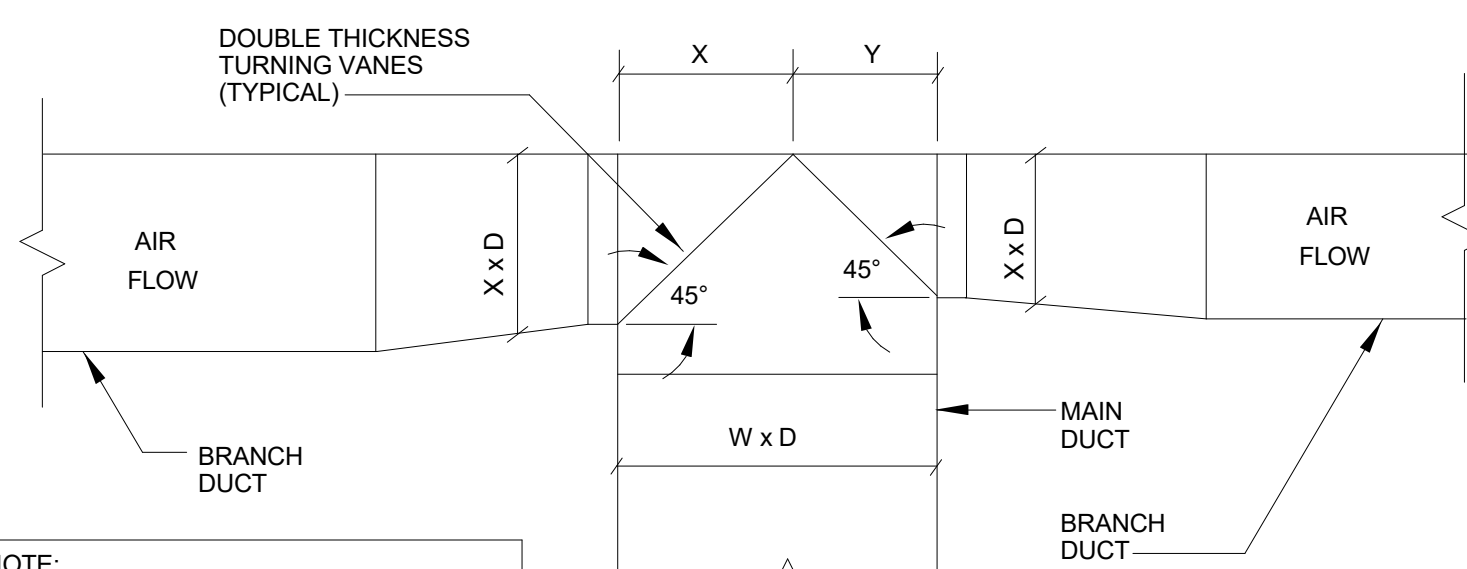
TYPICAL LOW PRESSURE BRANCH DUCT TAKE-OFF
NOT TO SCALE



CEILING EXHAUST FAN DETAIL
NOT TO SCALE



EQUAL SPLIT

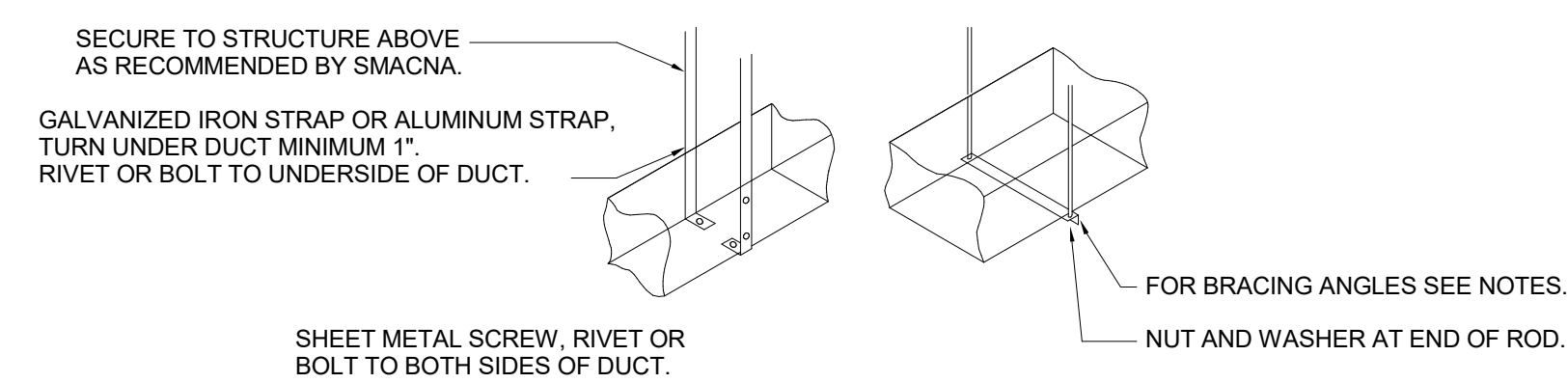


UNEQUAL SPLIT

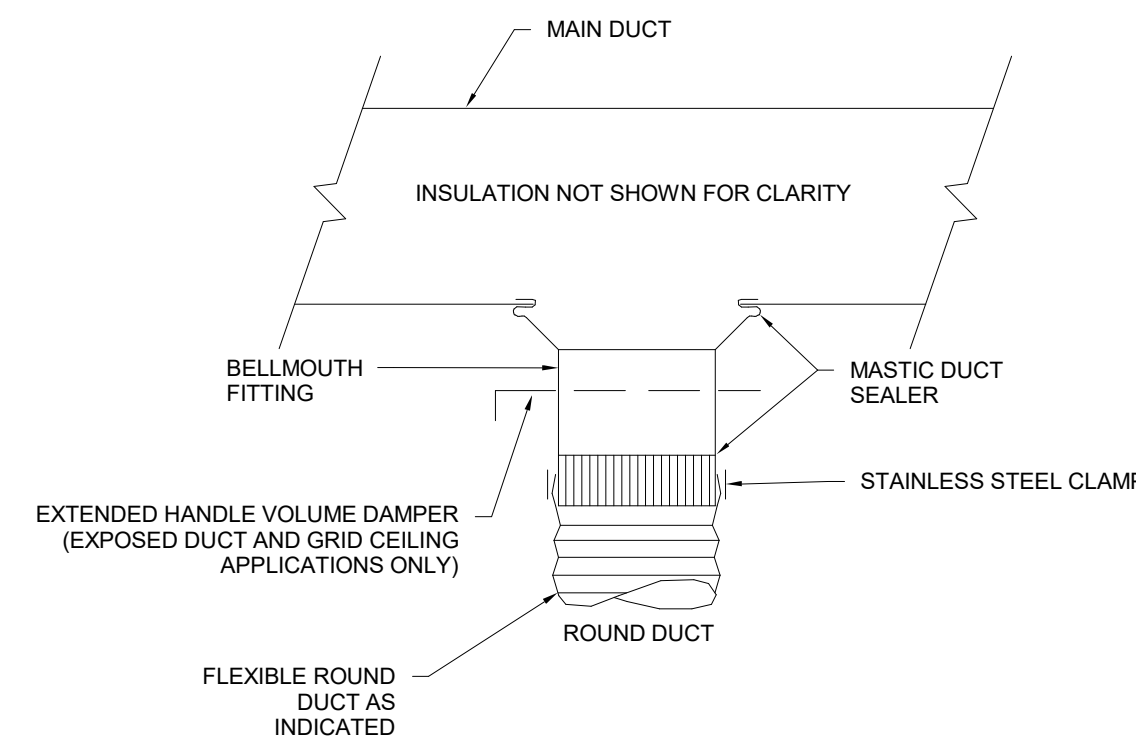
DUCT TEE CONNECTION DETAIL
NOT TO SCALE

RECTANGULAR DUCT HANGER SCHEDULE (MINIMUM SIZES)

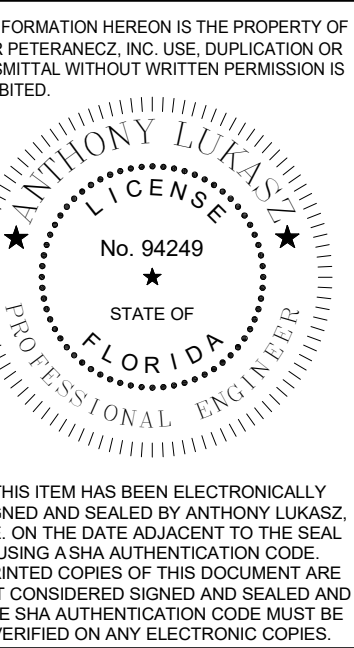
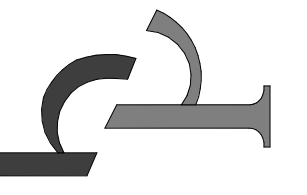
HALF DUCT PERIMETER RANGE	PAIR AT 10' SPACING		PAIR AT 8' SPACING		PAIR AT 5' SPACING		PAIR AT 4' SPACING	
	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD	STRAP	WIRE/ROD
P/2 < 30"	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	10 GA. (0.135")	1"x 22 GA.	12 GA. (0.106")	1"x 22 GA.	12 GA. (0.106")
P/2 < 72"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"	1"x 22 GA.	1/4"	1"x 22 GA.	1/4"
P/2 < 96"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	3/8"	1"x 22 GA.	1/4"
P/2 < 120"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"	1"x 20 GA.	1/4"
P/2 < 168"	-	1/2"	1"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 18 GA.	3/8"
P/2 < 192"	-	1/2"	1-1/2"x 16 GA.	1/2"	1"x 16 GA.	3/8"	1"x 16 GA.	3/8"



DUCT HANGER DETAIL
NOT TO SCALE



ROUND LOW PRESSURE BRANCH DUCT TAKE-OFF
NOT TO SCALE



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PROJECT NO: 23.014

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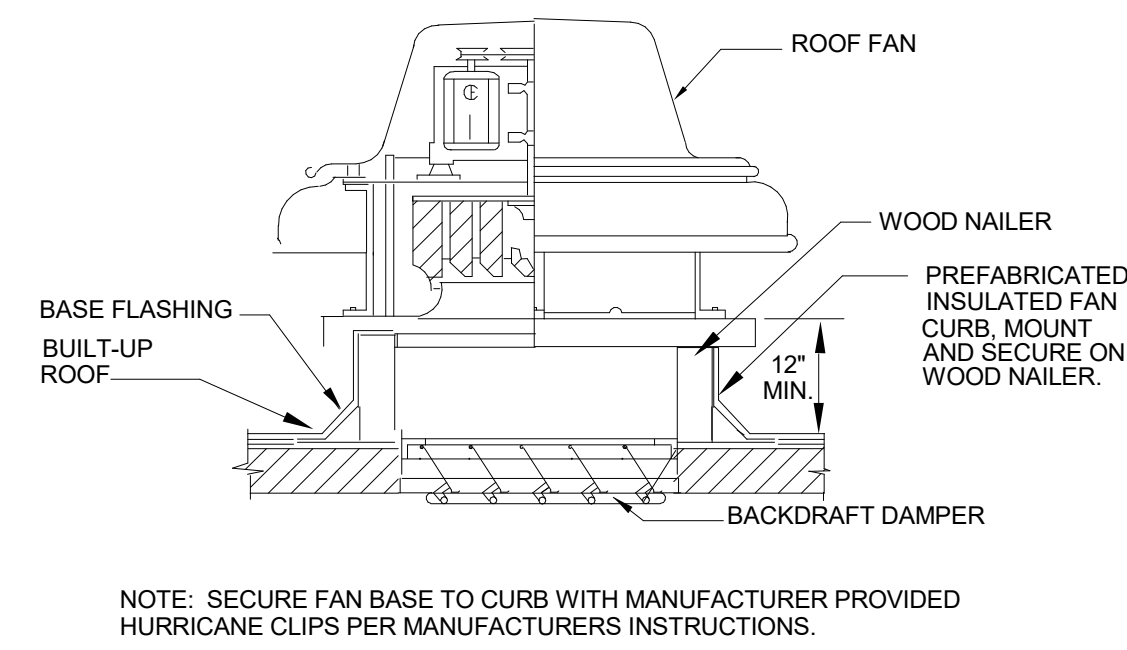
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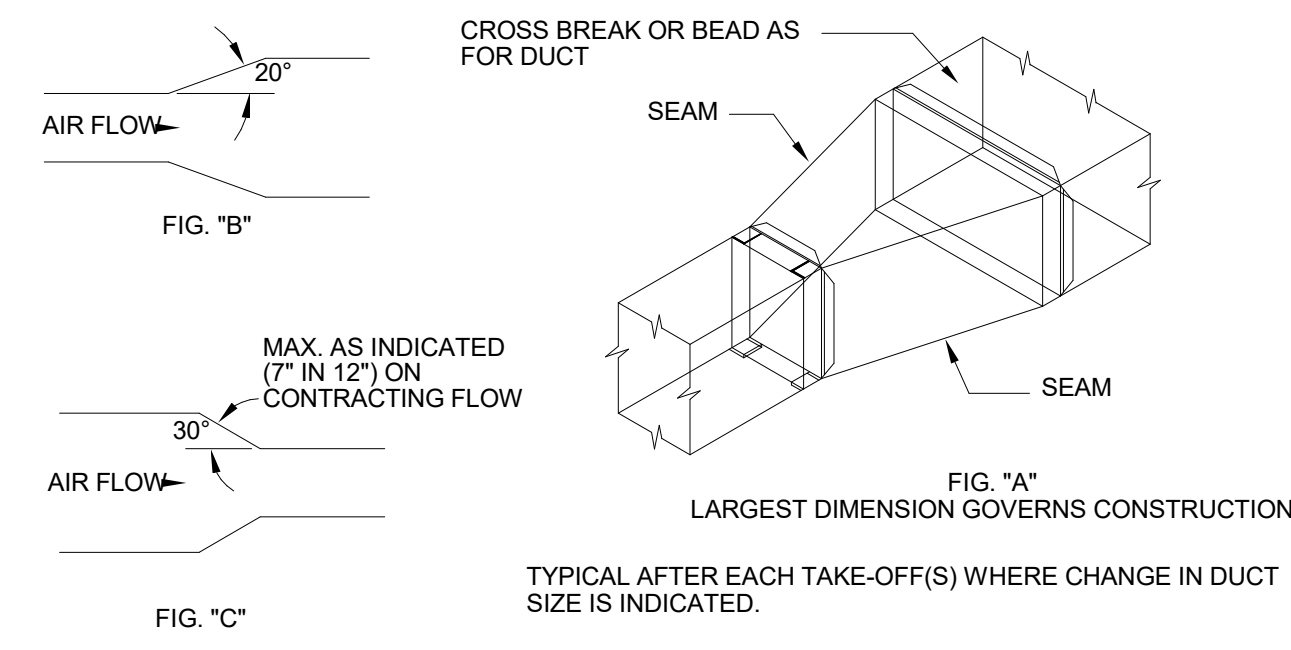
M410

EDITION:

PERMIT SET



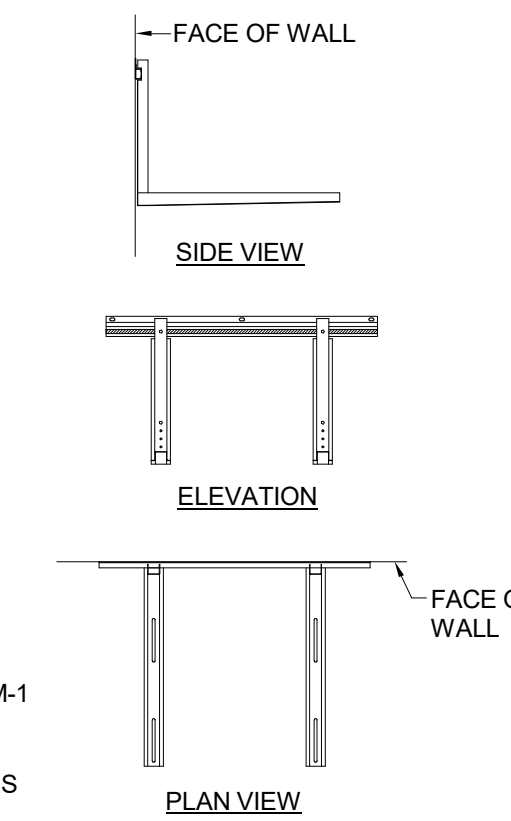
ROOF FAN MOUNTING DETAIL
NOT TO SCALE



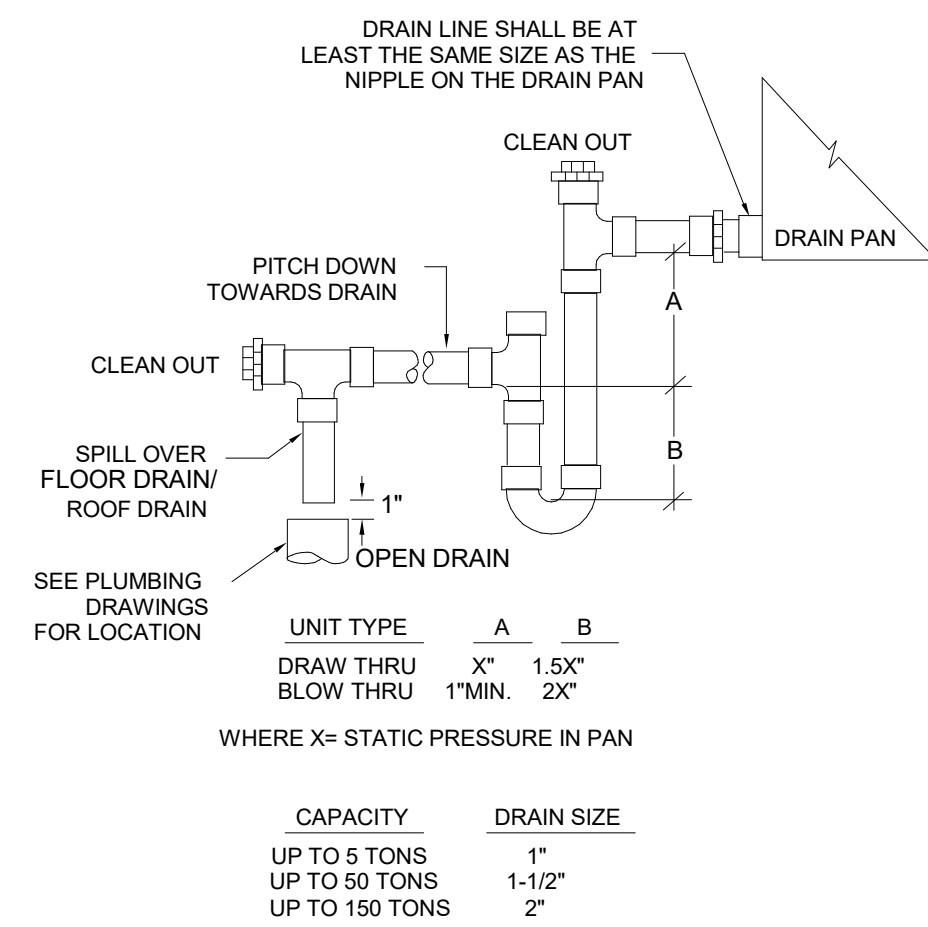
DUCT TRANSITION DETAIL
NOT TO SCALE



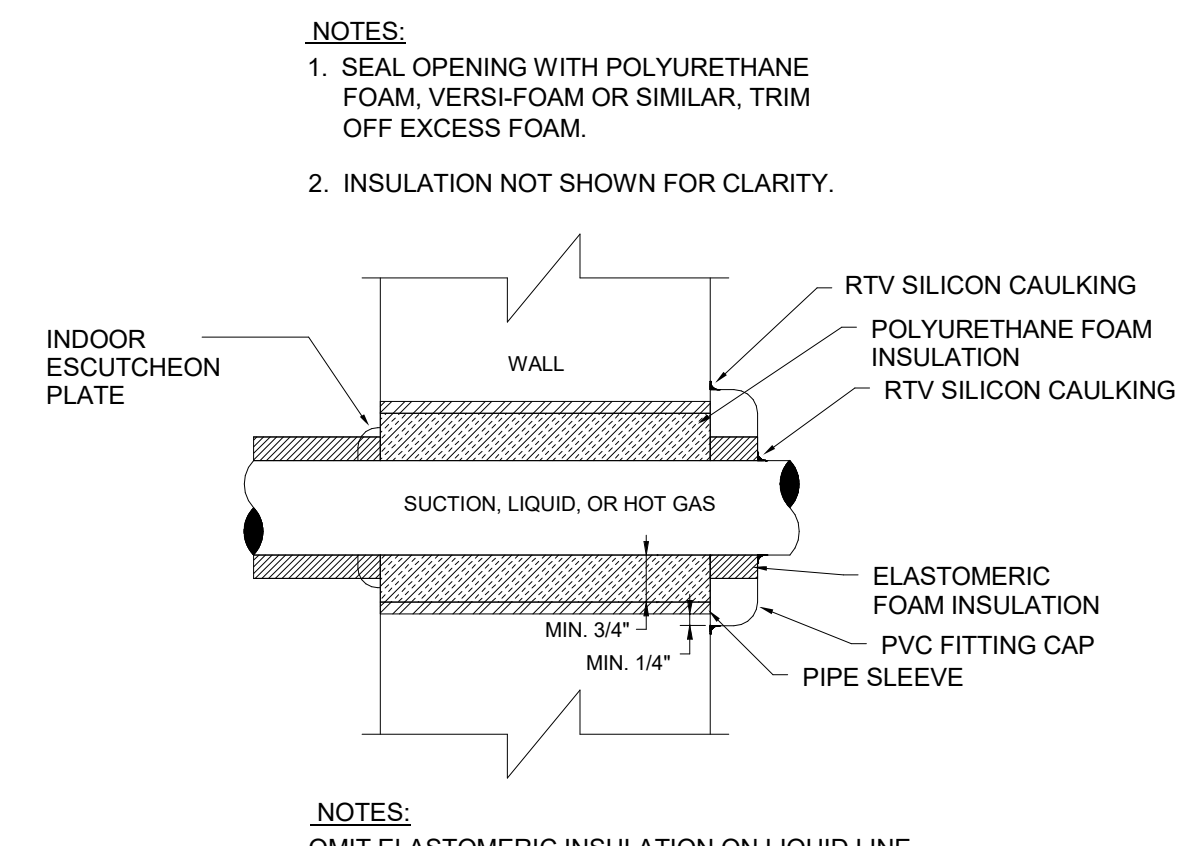
DETAIL BASED ON DIVERSITECH MODEL QSWB2000M-1
HEAVY DUTY PAINTED STEEL WALL BRACKET
FOLLOW MANUFACTURER INSTALLATION GUIDELINES



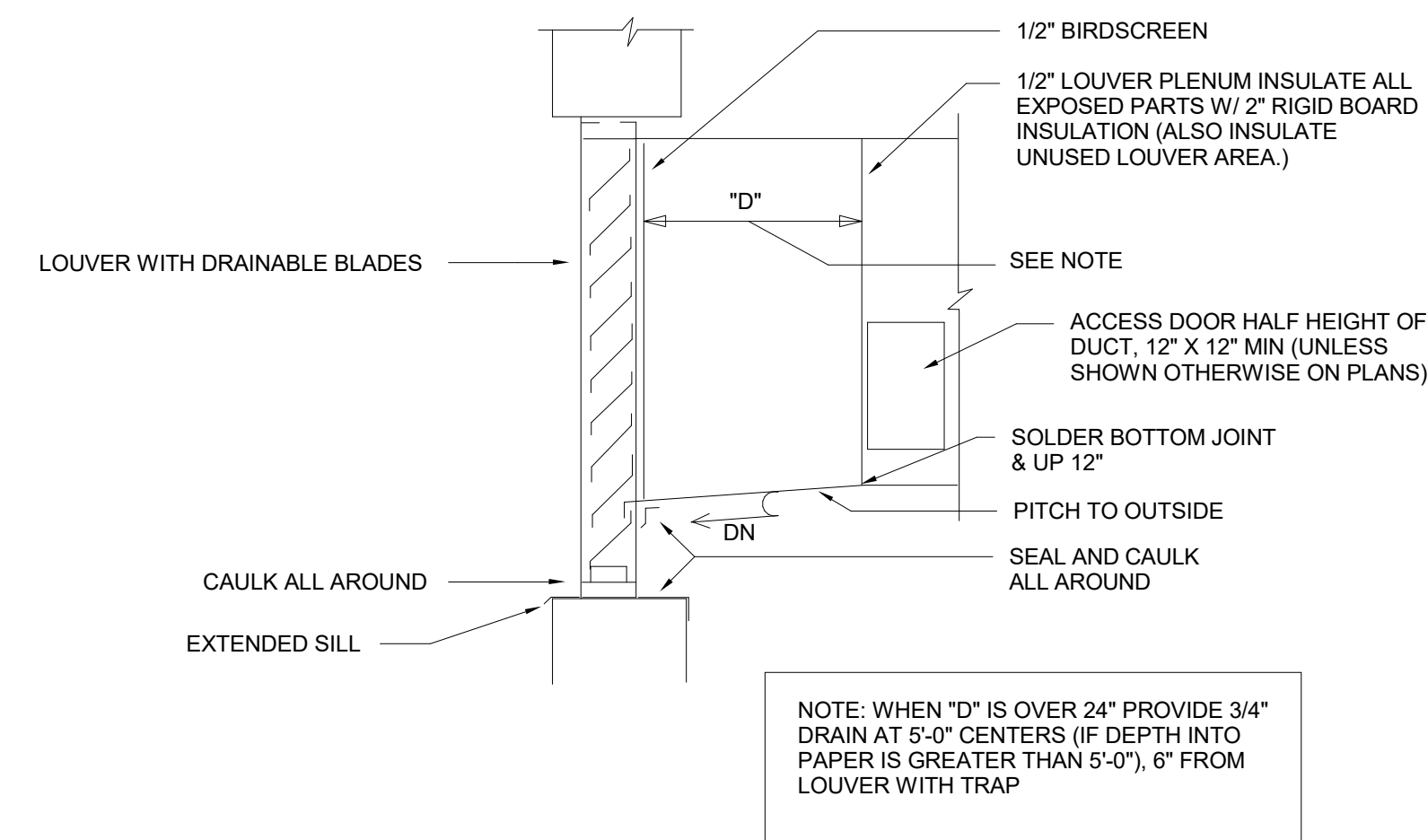
**TYPICAL MINI-SPLIT CONDENSING
UNIT WALL BRACKET DETAIL**
NOT TO SCALE



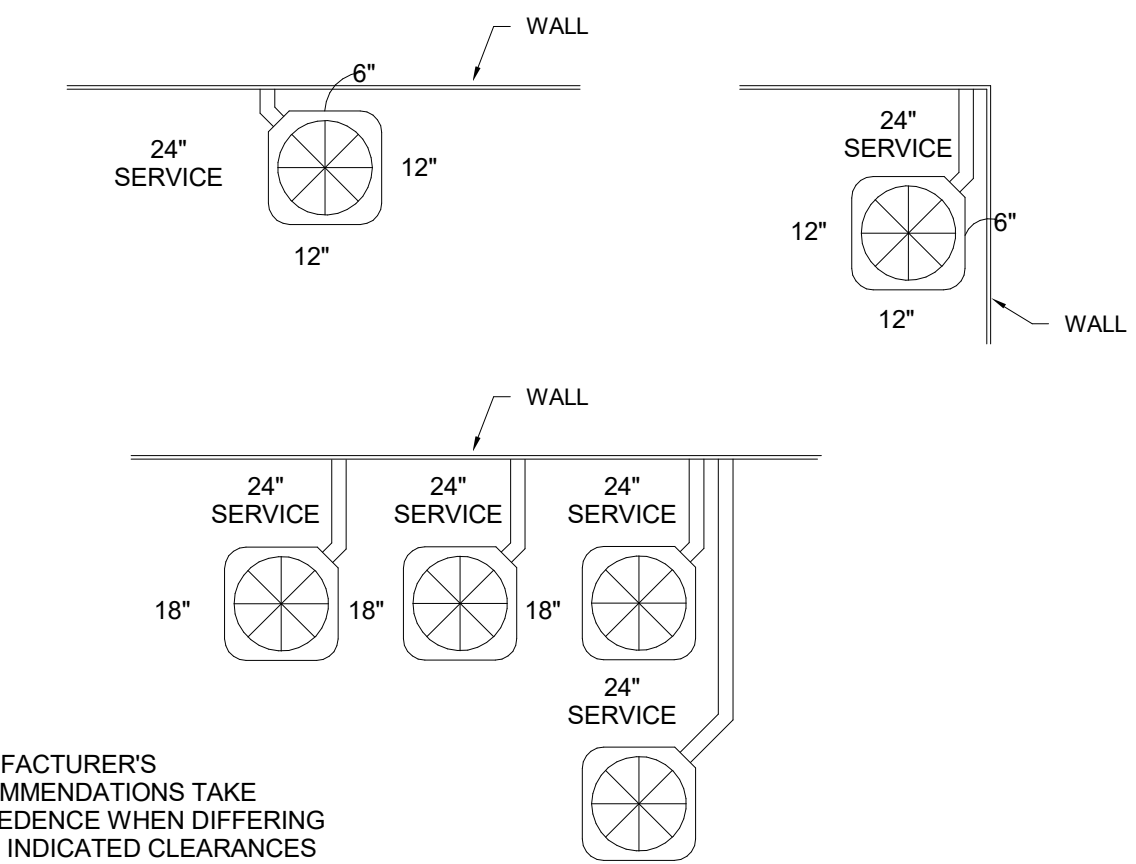
SLOPE DRAIN PIPING AT A MINIMUM OF 1" PER 8" (1% OR GREATER)
AIR CONDITIONING UNIT DRAIN TRAP DETAIL
NOT TO SCALE



TYPICAL REFRIGERANT PIPING PENETRATION DETAIL
NOT TO SCALE

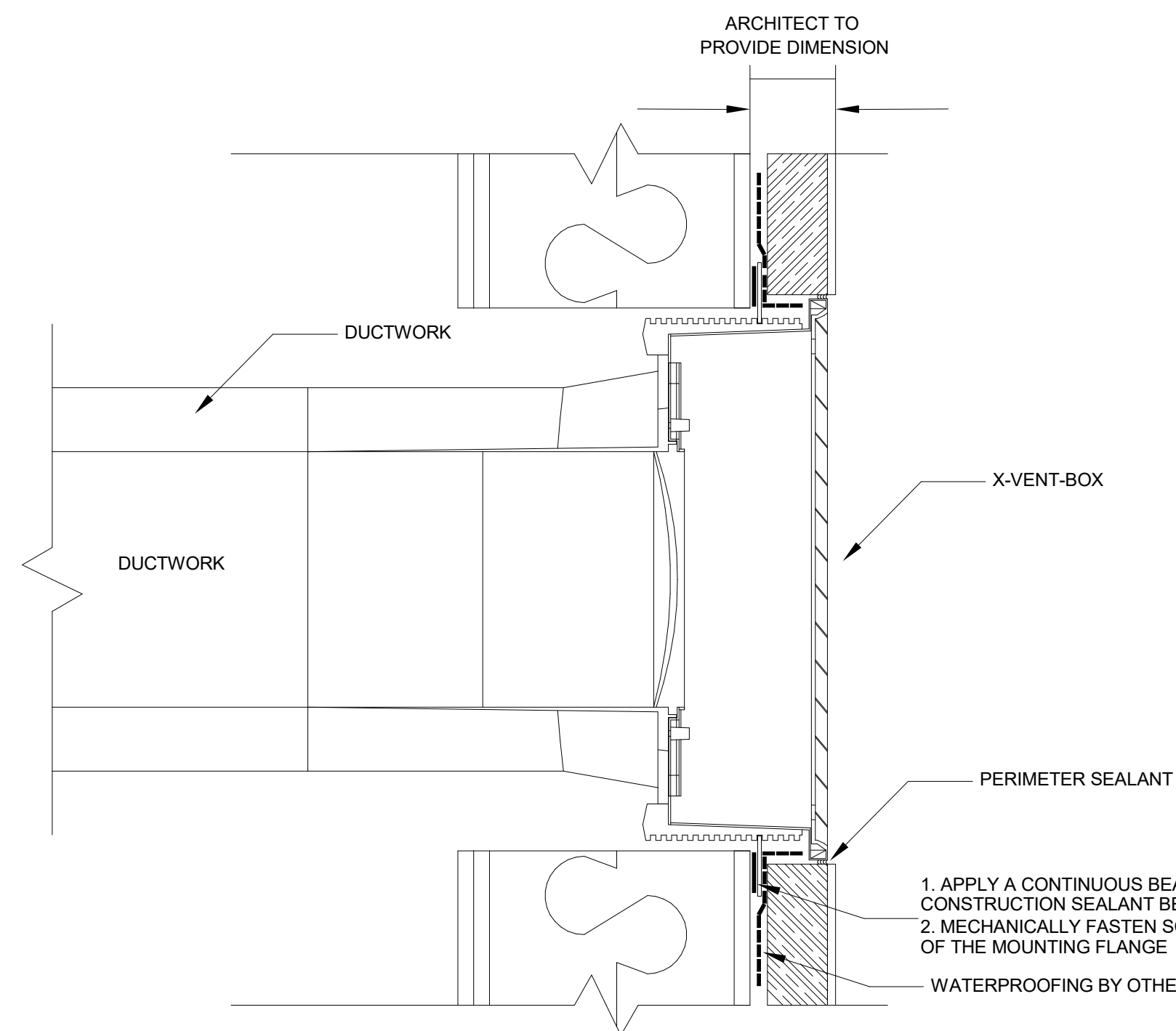


LOUVER CONNECTION DETAIL
NOT TO SCALE

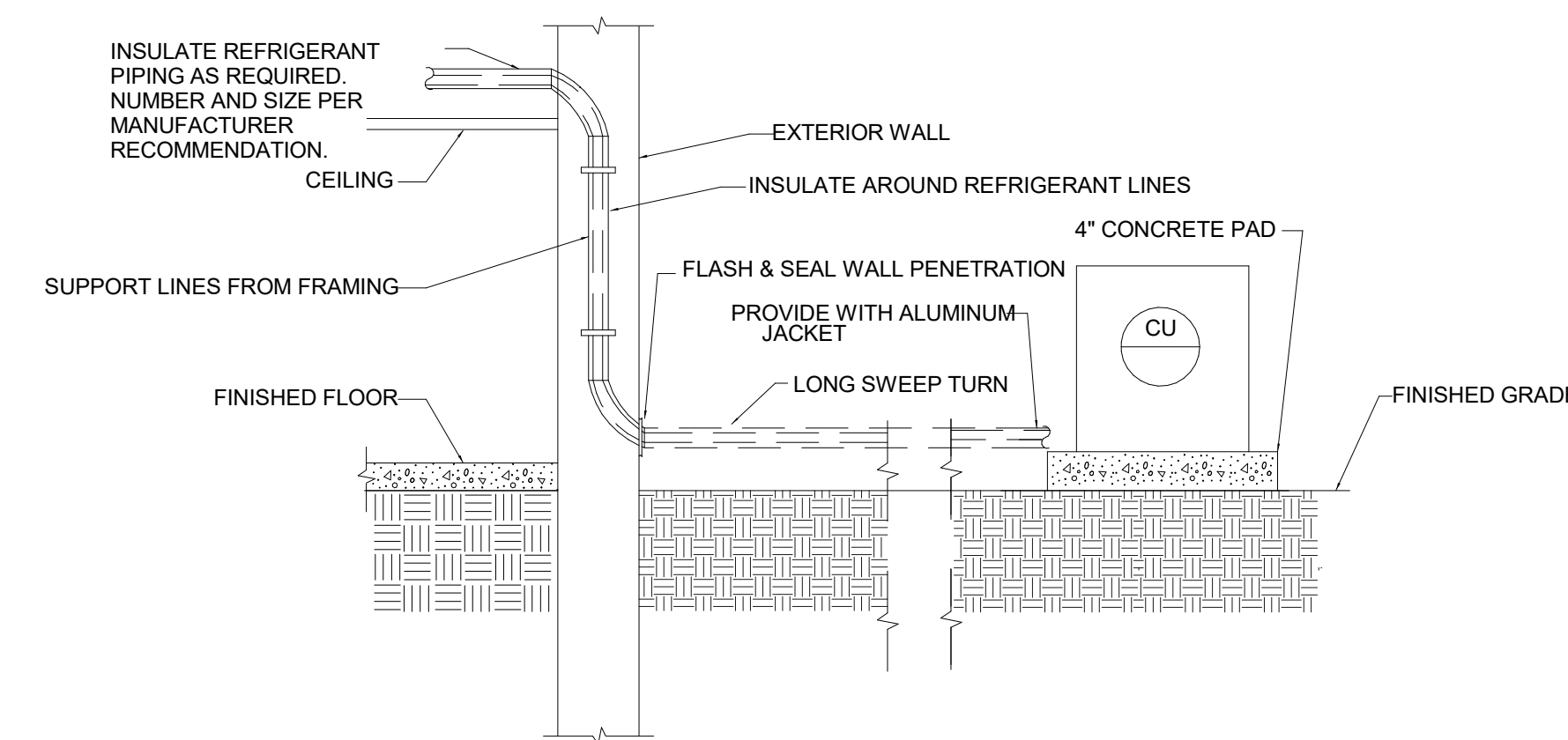


MANUFACTURER'S RECOMMENDATIONS TAKE PRECEDENCE WHEN DIFFERING FROM INDICATED CLEARANCES

RECOMMENDED CLEARANCES AT EQUIPMENT
NO SCALE



X-VENT-BOX TYPICAL DETAIL
NOT TO SCALE



TYPICAL REFRIGERANT PIPING DETAIL
NOT TO SCALE

COMcheck Software Version COMcheckWeb Mechanical Compliance Certificate

Project Information: Energy Code: 90.1 (2019) Standard; Project Title: 24-064 Fountain Fire Station; Location: Tallahassee, Florida; Construction Site: 12421 Highway 20; Owner/Agent: Behar Peterancz Architecture; Designer/Contractor: Genesis Engineering Group.

Mechanical Systems List

Table with 2 columns: Quantity/System Type & Description, and Compliance/Notes. Lists systems like HP-3, HP-1, HP-2, ODU-1, and IDU-1.

Table for Mechanical Compliance Statement. Columns: Name - Title, Signature, Date. Includes Project Title and Report Date.

COMcheck Software Version COMcheckWeb Inspection Checklist. Includes Energy Code 90.1 (2019) Standard and a table for Section # & Req ID, Plan Review, Compliance, and Comments/Assumptions.

Table for Section # & Req ID, Footing / Foundation Inspection, Complies?, and Comments/Assumptions.

Additional Comments/Assumptions:

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.

Table for Mechanical Rough-In Inspection with columns for Section # & Req ID, Plans Verified Value, Field Verified Value, Complies?, and Comments/Assumptions.

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.

MECHANICAL - Energy Compliance 1/8" = 1'-0"

Table for Mechanical Rough-In Inspection with columns for Section # & Req ID, Plans Verified Value, Field Verified Value, Complies?, and Comments/Assumptions.

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.

Table for Section # & Req ID, Mechanical Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, and Comments/Assumptions.

Additional Comments/Assumptions:

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.

Table for Section # & Req ID, Rough-In Electrical Inspection, Complies?, and Comments/Assumptions.

Additional Comments/Assumptions:

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.

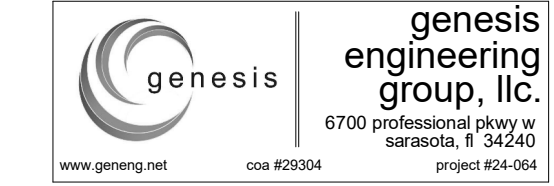
Table for Section # & Req ID, Mechanical Rough-In Inspection, Plans Verified Value, Field Verified Value, Complies?, and Comments/Assumptions.

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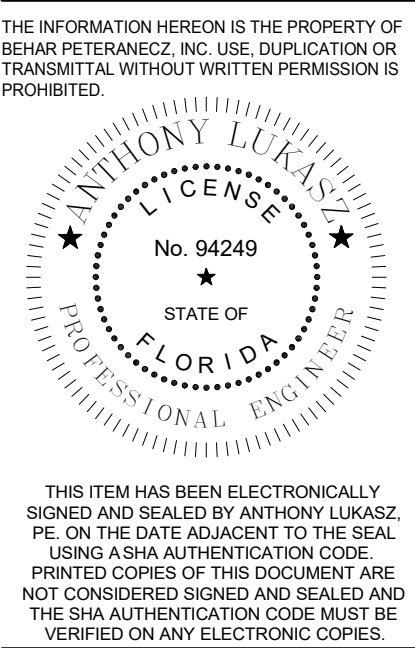
Table for Section # & Req ID, Final Inspection, Complies?, and Comments/Assumptions.

Additional Comments/Assumptions:

Table for Impact Levels: 1High Impact (Tier 1), 2Medium Impact (Tier 2), 3Low Impact (Tier 3). Includes Project Title and Report Date.



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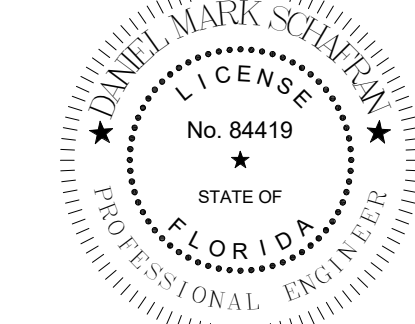
FOUNTAIN COMMUNITY COMPLEX FIRE STATION. 12421 HIGHWAY 20, FOUNTAIN, FLORIDA 32438.

ISSUED DRAWING LOG table with Date and Description columns.

PROJECT NO: 23.014. ISSUE DATE: 09.17.2024. DRAWING TITLE: ENERGY COMPLIANCE.

SHEET NUMBER: M500. EDITION: PERMIT SET.

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PROJECT NO: 23.014

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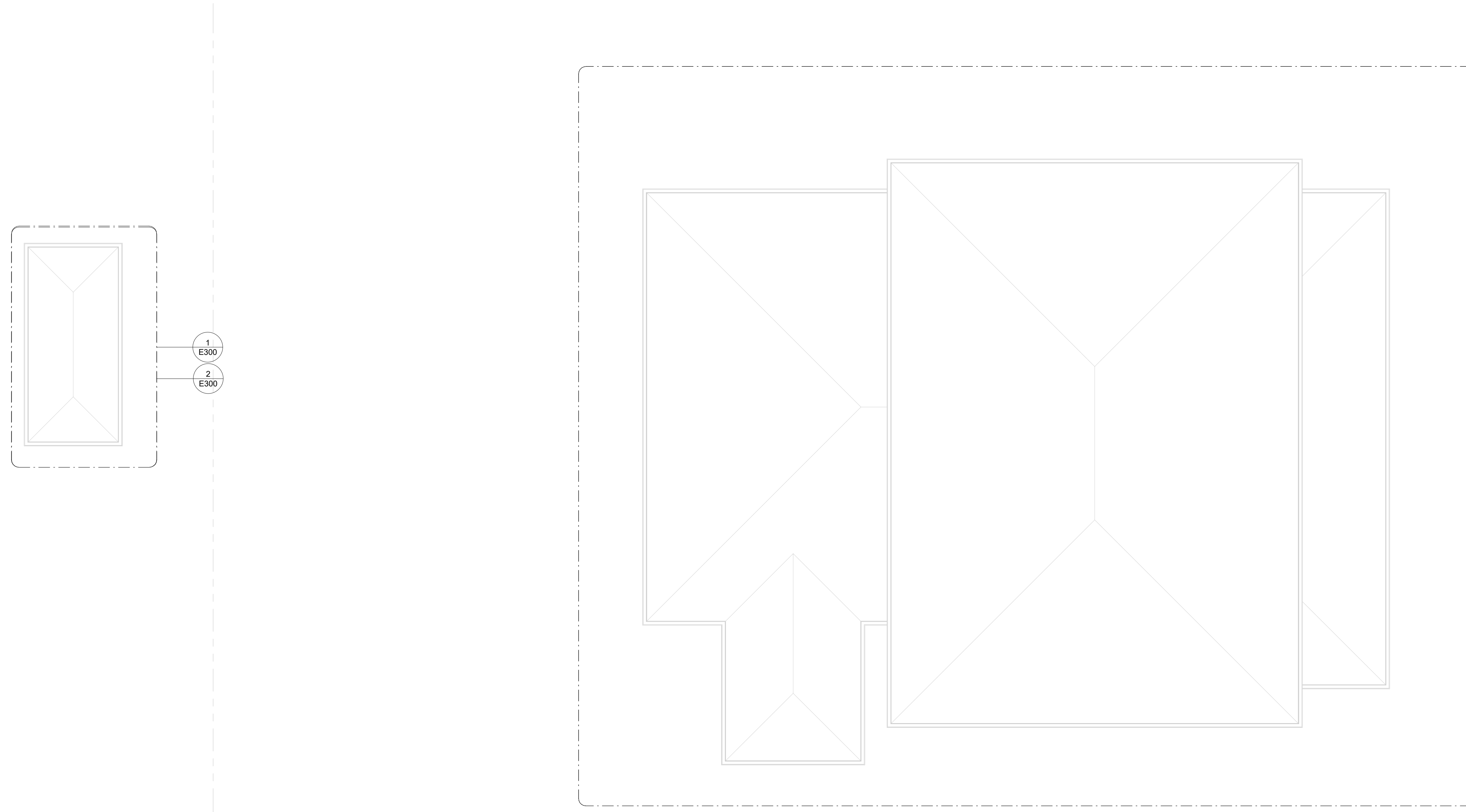
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OVERALL PLAN

SHEET NUMBER:

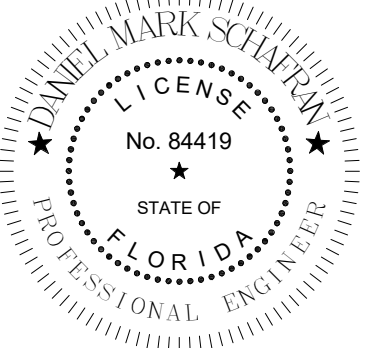
E100

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① **OVERALL PLAN**
1/8" = 1'-0"

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ISSUED DRAWING LOG:

Date	Description

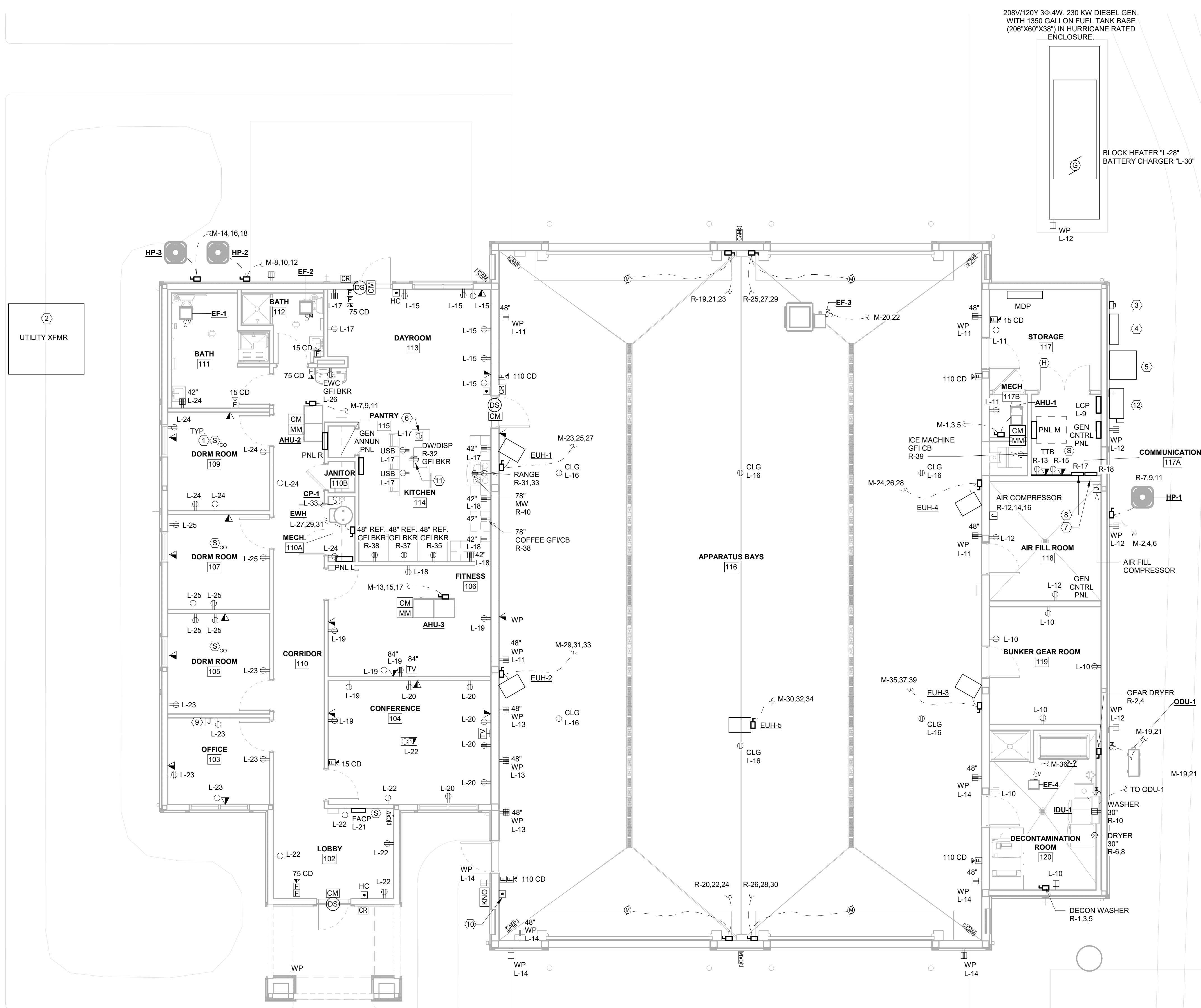
PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:
**GROUND LEVEL
POWER AND
SYSTEM**

SHEET NUMBER:
E200

EDITION:
PERMIT SET



- # KEYED NOTES**
- COMBINATION SMOKE/CO DETECTOR SHALL BE INTERCONNECTED THROUGHOUT.
 - COORDINATE FINAL LOCATION OF UTILITY TRANSFORMER WITH CIVIL DWGS AND ELECTRICAL UTILITY.
 - APPROXIMATE LOCATION OF NEW ELECTRICAL UTILITY METER. COORDINATE FINAL LOCATION WITH ELECTRICAL UTILITY REPRESENTATIVE. REFER TO RISER DIAGRAM
 - APPROXIMATE LOCATION OF NEW ELECTRICAL CT CABINET. COORDINATE FINAL LOCATION WITH ELECTRICAL UTILITY REPRESENTATIVE. REFER TO RISER DIAGRAM
 - LOCATION OF NEW NEMA 3R ATS. REFER TO RISER DIAGRAM FOR FEEDERS AND SIZING.
 - CONTRACTOR SHALL COORDINATE FINAL LOCATION OF COUNTERTOP RECEPTACLE WITH CASEWORK AND COUNTERTOP PROVIDER.
 - LOCATION OF PAGING COMMUNICATION CABINET. COORDINATE FINAL LOCATION WITH OWNER'S TELECOM REPRESENTATIVE PRIOR TO ROUGH IN.
 - LOCATION OF ACCESS/CONTROL/ SECURITY COMMUNICATION CABINET. COORDINATE FINAL LOCATION WITH OWNER'S SECURITY SPECIALIST PRIOR TO ROUGH IN.
 - LOCATION OF REMOTE RADIO STATION. COORDINATE FINAL LOCATION AND CONNECTION TO COMMUNICATION CABINET WITH OWNER'S LOW VOLTAGE/ COMMUNICATIONS PROVIDER.
 - PROVIDE PUSH BUTTON MOUNTED AT 48" AFF. PUSHBUTTON SHALL BE MOMENTARY TYPE FLUSH MOUNTED WITH COVER PLATE READING "TRAFFIC CONTROL BOX" COORDINATE CONNECTION WITH CIVIL ENGINEER DWGS AND CONTRACTOR.
 - PROVIDE DISHWASHER RECEPTACLE IN ACCESSIBLE SPACE BELOW SINK.
 - APPROXIMATE LOCATION OF NEW NEMA 3R SERVICE RATED DISCONNECT. COORDINATE FINAL LOCATION WITH ELECTRICAL UTILITY REPRESENTATIVE. REFER TO RISER DIAGRAM.
 - APPROXIMATE LOCATION OF NEW NEMA 3R DISCONNECT. COORDINATE FINAL LOCATION WITH ELECTRICAL UTILITY REPRESENTATIVE. REFER TO RISER DIAGRAM.
 - 208V/120Y 3Φ 4W, 230 KW DIESEL GEN. WITH 1350 GALLON FUEL TANK BASE (206"x60"x38") IN HURRICANE RATED ENCLOSURE.

- GENERAL NOTES**
- CONNECT FIXTURES AND DEVICES TO PANELBOARD AND CIRCUIT NUMBER AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR BREAKER SIZES AND ADDITIONAL INFORMATION. CONDUCTORS SHALL BE SIZED PER NEC ACCORDING TO THE ASSOCIATED CIRCUIT BREAKER RATING.
 - LOCATIONS OF EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS. COORDINATE WITH ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS AS WELL AS NEC DEVICE SPACING REQUIREMENTS.
 - COMPLY WITH NEC REQUIRED WORKING CLEARANCES FOR ALL EQUIPMENT INSTALLATIONS. MAKE ALL MODIFICATIONS AND PROVIDE ALL NECESSARY WORK AND EQUIPMENT TO MOUNT ELECTRICAL EQUIPMENT IN GENERAL LOCATIONS SHOWN.
 - PROVIDE GROUNDING PER NEC FOR ALL EQUIPMENT AND DEVICES.
 - IN THE EVENT OF FIRE ALARM ACTIVATION ALL ACCESS CONTROL DOORS SHALL BE REQUIRED TO RELEASE VIA FIRE ALARM CONTROL MODULE.
 - UPON FIRE ALARM ACTIVATION. ALL AIR HANDLING UNITS SHALL BE REQUIRED TO SHUT DOWN VIA FIRE ALARM CONTROL MODULE. THIS PROCESS SHALL BE MONITORED BY THE FIRE ALARM CONTROL PANEL VIA A MONITOR MODULE.

1 GROUND LEVEL - POWER AND SYSTEMS
3/16" = 1'-0"

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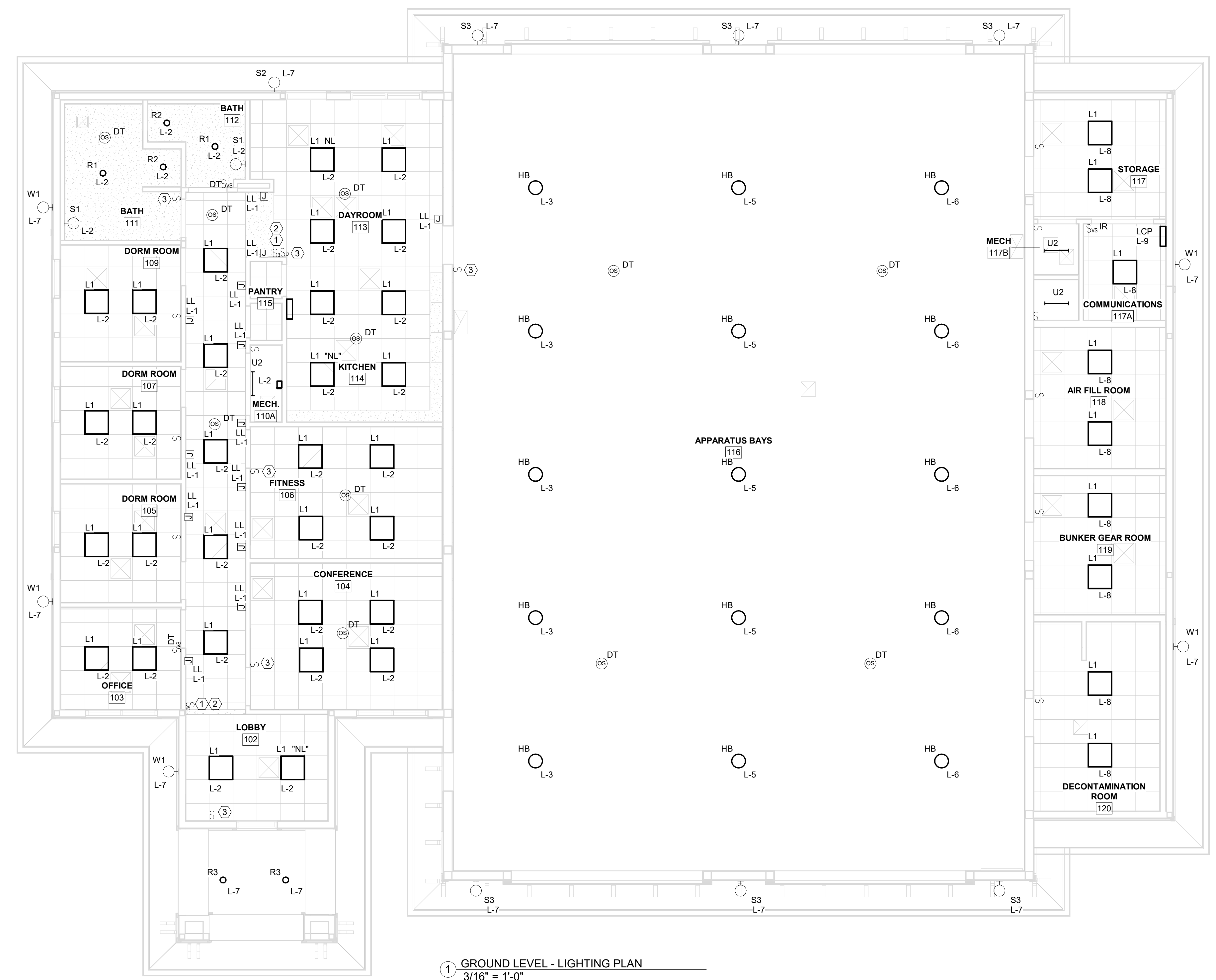


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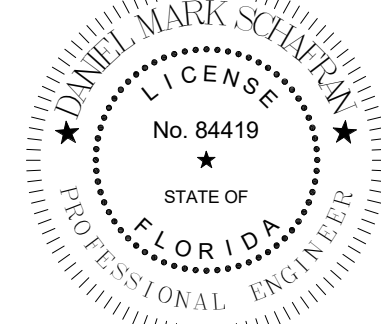
**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

- # KEYED NOTES**
- CORRIDOR LIGHTS TYPE "LL" TO BE CONTROLLED VIA TIME OF DAY TO PROVIDE LOW LEVEL LIGHTING. LIGHTING SHALL TURN ON AT DUSK AND TURN OFF AT DAWN VIA LIGHTING CONTROL PANEL. COORDINATE TIME ON/OFF TIMES WITH OWNERS REPRESENTATIVE. PROVIDE OVERRIDE SWITCHING WHERE SHOWN.
 - CORRIDOR LIGHTING SHALL BE CONTROLLED VIA TIME OF DAY. LIGHTING SHALL TURN ON AT DAWN AND OFF AT DUSK. OCCUPANCY SENSORS AND DIMMING ZONE CONTROLLERS SHALL BE PROVIDED TO UNIFORMLY DIM LUMINAIRES NO GREATER THAN 50%. TYPE L1 LUMINAIRES WHEN NO OCCUPANTS ARE DETECTED FOR GREATER THAN 30 MINUTES. PROVIDE OVERRIDE SWITCHING WHERE SHOWN.
 - LUMINAIRES IN THIS AREA SHALL BE CONTROLLED VIA CEILING MOUNTED OCCUPANCY SENSOR. PROVIDE OVERRIDE SWITCHING WHERE SHOWN.

- GENERAL NOTES**
- CONNECT FIXTURES AND DEVICES TO PANELBOARD AND CIRCUIT NUMBER AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR BREAKER SIZES AND ADDITIONAL INFORMATION. CONDUCTORS SHALL BE SIZED PER NEC ACCORDING TO THE ASSOCIATED CIRCUIT BREAKER RATING.
 - LOCATIONS OF EQUIPMENT AND DEVICES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS. COORDINATE WITH ARCHITECTURAL AND INTERIOR DESIGN ELEVATIONS AS WELL AS NEC DEVICE SPACING REQUIREMENTS.
 - PROVIDE GROUNDING PER NEC FOR ALL EQUIPMENT AND DEVICES.
 - EXTERIOR LIGHTING SHALL BE CONTROLLED BY TIME OF DAY VIA LIGHTING CONTROL PANEL. LIGHTING SHALL TURN ON AT DUSK VIA TIME CLOCK AND OFF VIA PHOTOCELL. COORDINATE TIME OF DAY SETTINGS WITH OWNER'S REPRESENTATIVE.
 - ALL LIGHTING SHALL BE BACKED UP BY GENERATOR.
 - SUB-TEXT "NL" DENOTES NIGHT LIGHTS. LIGHTING SHALL BE CIRCUITED AHEAD OF ALL SWITCHING FOR 24 HOUR OPERATION.



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FOUNTAIN COMMUNITY COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

LOAD CENTER PH SCHEDULE

VOLTAGE: 208Y/120V BUS RATING: 200A LOCATION: WAREHOUSE
PHASE: 3Ø WIRE: 4W MAIN BREAKER: 200A MBC MOUNTING: SURFACE
AIC RATING: 42,000 NEUTRAL SIZE: 100% ISO. GROUND: N SPD: Y

NOTE	TYPE	LOAD	DESCRIPTION	BRANCH		CIRCUIT		BRANCH		DESCRIPTION	LOAD	TYPE	NOTE	
				C/B	P	#	Φ	#	C/B					P
	M	576	JP-1 (JOCKEY PUMP)	20	3	1	A	2	20	3	WELL PUMP	1320	M	
	M	576				3	B	4				1320	M	
	M	576				5	C	6				1320	M	
1	M	56	TF-5	20	1	7	A	8	15	2	IDU-2/ODU-2	1560	M	
	L	99	PUMP HOUSE LIGHTING	20	1	9	B	10				1560	M	
			SPARE	20	1	11	C	12	20	1	PUMP HOUSE RECEPTACLES	360	R	
			SPARE	20	1	13	A	14	20	1	SPARE			
			SPARE	20	1	15	B	16	20	1	SPARE			
			SPACE			17	C	18			SPACE			
			SPACE			19	A	20			SPACE			
			SPACE			21	B	22			SPACE			
			SPACE			23	C	24			SPACE			

TYPE	CONNECTED LOAD (VA)	NEC DEMAND FACTOR	NEC DEMAND LOAD (VA)
R RECEPTACLES ≤ 10KVA	360	1.00	360
R RECEPTACLES > 10KVA	-	0.50	-
L LIGHTING	99	1.25	124
M LARGEST MOTOR	3960	1.25	4950
M REMAINING MOTORS	4904	1.00	4904
H HEATING (RESISTIVE)	-	1.25	-
E EQUIPMENT	-	1.00	-
K KITCHEN EQUIPMENT	-	1.00	-
TOTAL	9323		10338

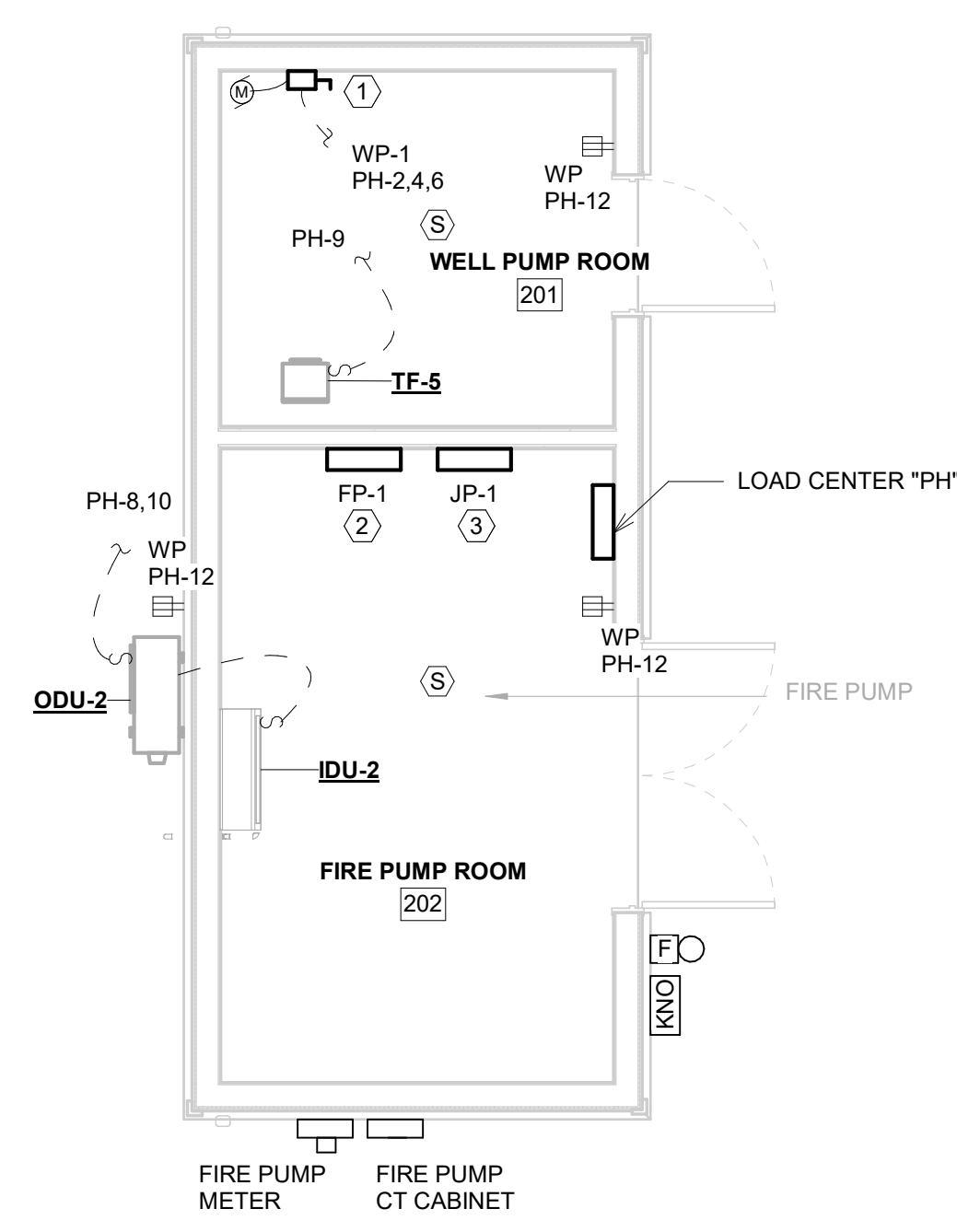
PHASE A LOAD = 3512 VA
PHASE B LOAD = 3555 VA
PHASE C LOAD = 2256 VA

NEC DEMAND LOAD = 29 A
SPARE CAPACITY = 196 A
TOTAL AVAILABLE = 225 A

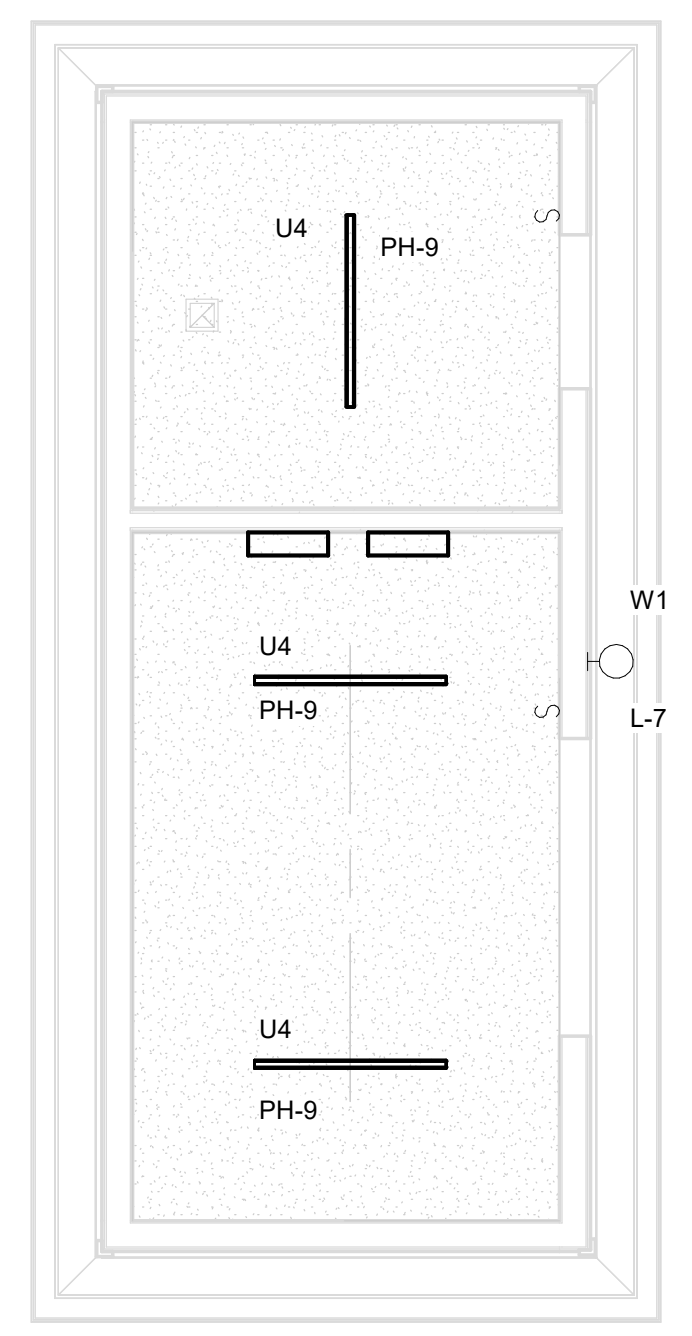
- NOTES: 1 PROVIDE GFCI TYPE CB.
2 PROVIDE HACR TYPE CB

- # KEYED NOTES**
- COORDINATE FINAL LOCATION AND ELECTRICAL REQUIREMENTS ON WELL PUMP WITH WELL EQUIPMENT PROVIDER.
 - APPROXIMATE LOCATION OF FIRE PUMP CONTROL PANEL. COORDAINTE FINAL LOCATION WITH EQUIPMENT PROVIDER. COORDAINTE ALL ELECTRICAL CONNECTION WITH ELECTRICAL UTILITY AND FIRE ALARM EQUIPMENT VENDOR PRIOR TO ROUGH IN.
 - APPROXIMATE LOCATION OF JOCKEY PUMP CONTROL PANEL. COORDAINTE FINAL LOCATION WITH EQUIPMENT PROVIDER. COORDAINTE ALL ELECTRICAL CONNECTION WITH FIRE ALARM EQUIPMENT VENDOR PRIOR TO ROUGH IN.

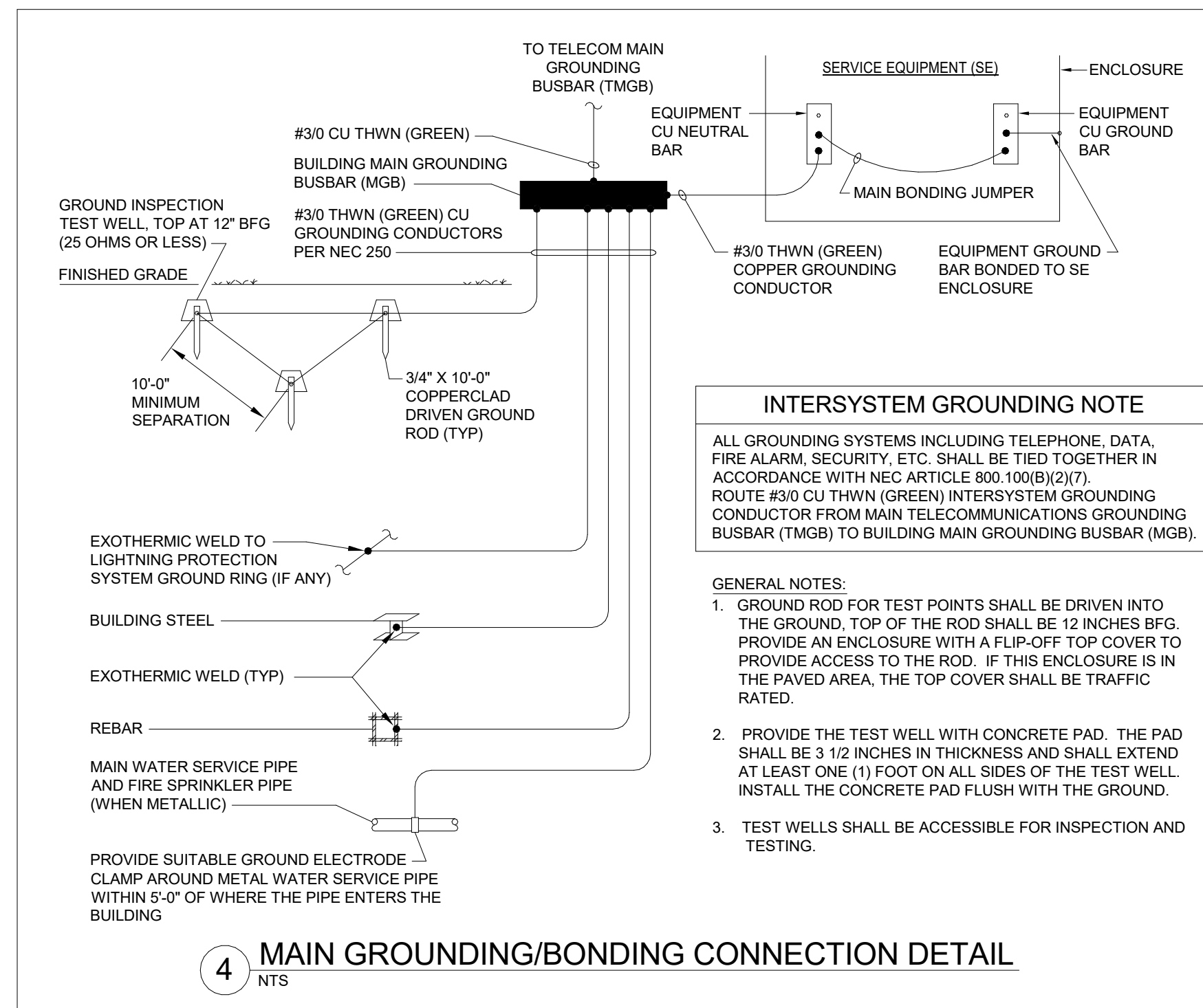
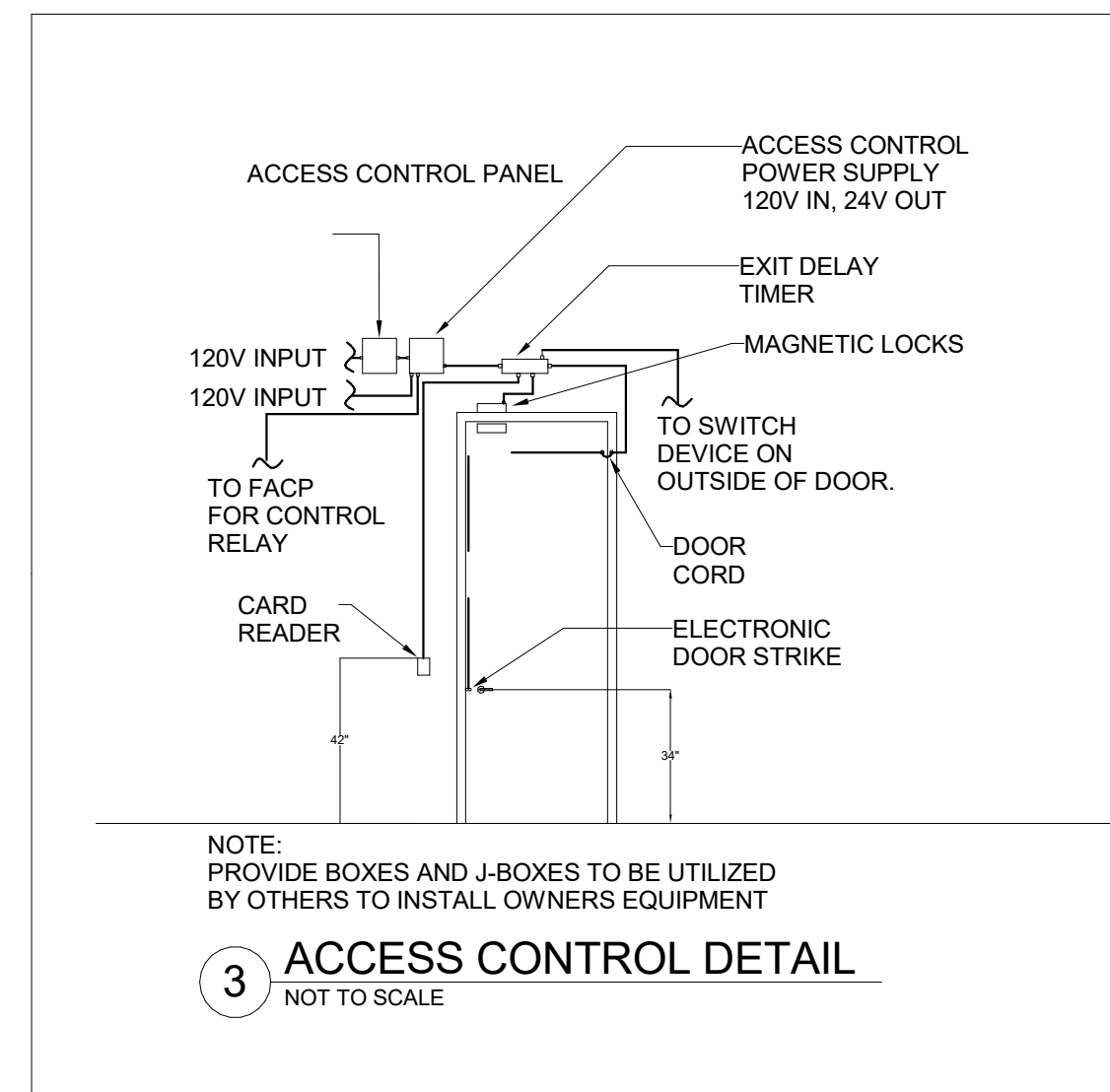
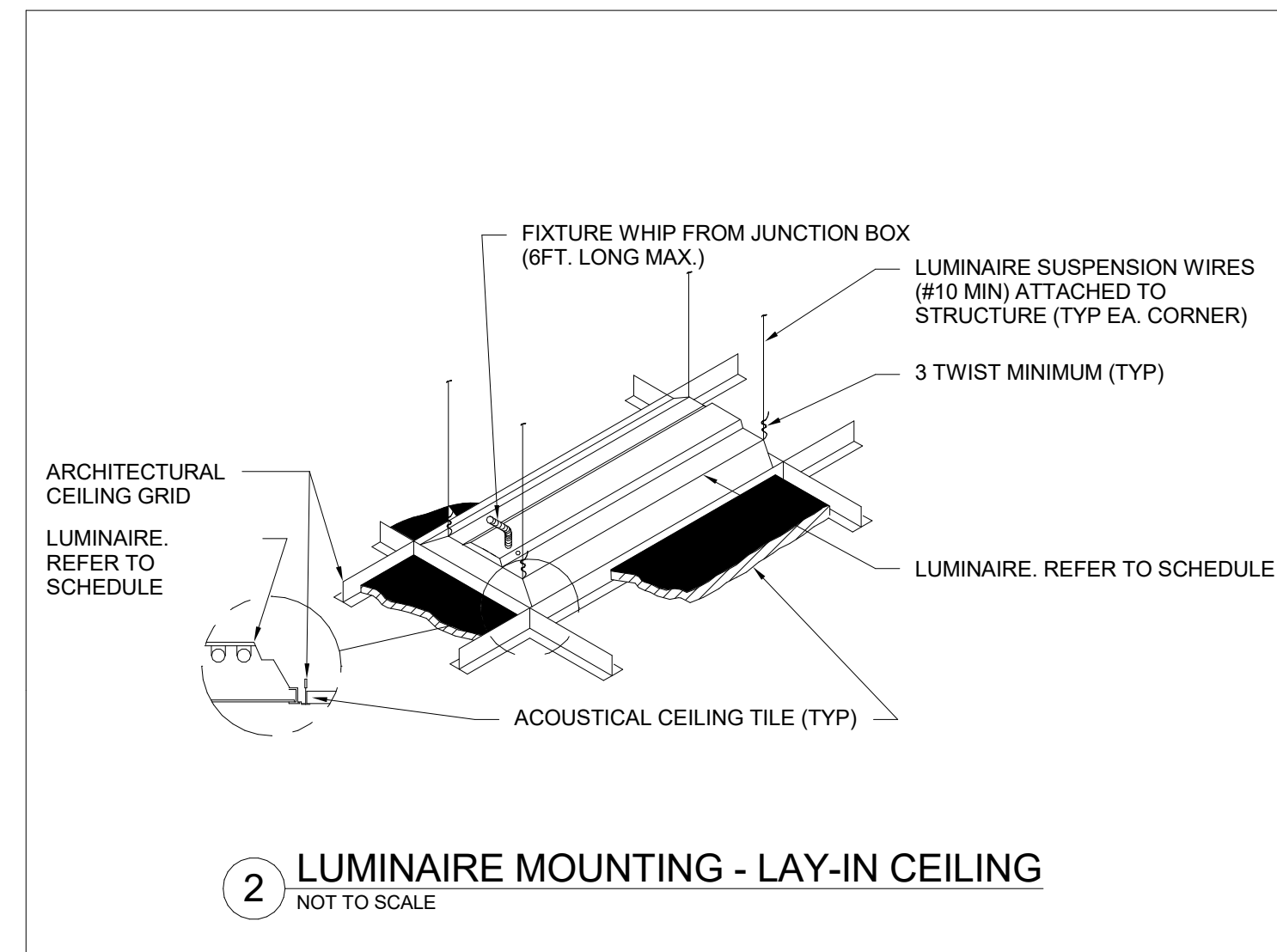
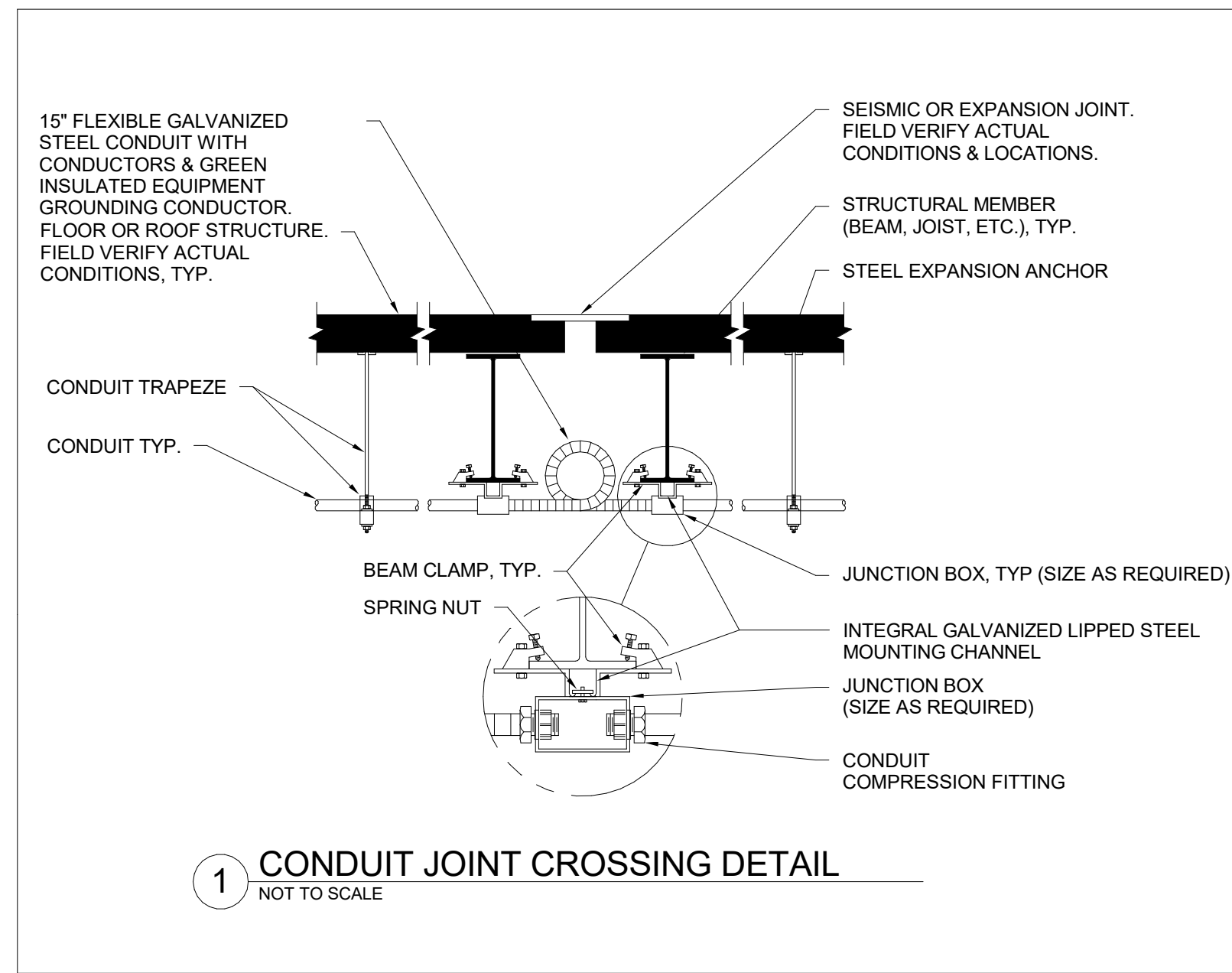
- GENERAL NOTES**
- CONNECT FIXTURES AND DEVICES TO PANELBOARD AND CIRCUIT NUMBER AS INDICATED. REFER TO PANELBOARD SCHEDULES FOR BREAKER SIZES AND ADDITIONAL INFORMATION. CONDUCTORS SHALL BE SIZED PER NEC ACCORDING TO THE ASSOCIATED CIRCUIT BREAKER RATING.
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 - COMPLY WITH NEC REQUIRED WORKING CLEARANCES FOR ALL EQUIPMENT INSTALLATIONS. MAKE ALL MODIFICATIONS AND PROVIDE ALL NECESSARY WORK AND EQUIPMENT TO MOUNT ELECTRICAL EQUIPMENT IN GENERAL LOCATIONS SHOWN.
 - PROVIDE GROUNDING PER NEC FOR ALL EQUIPMENT AND DEVICES.
 - PUMP HOUSE EXTERIOR LIGHTING SHALL BE CONTROLLED WITH MAIN BUILDING LIGHTING.
 - COORDINATE FINAL ELECTRICAL CONNECTION OF FIRE PUMP WITH ELECTRICAL UTILITY REPRESENTATIVE PRIOR TO ROUGH IN.



① ENLARGED PUMP HOUSE - POWER AND SYSTEMS
1/4" = 1'-0"

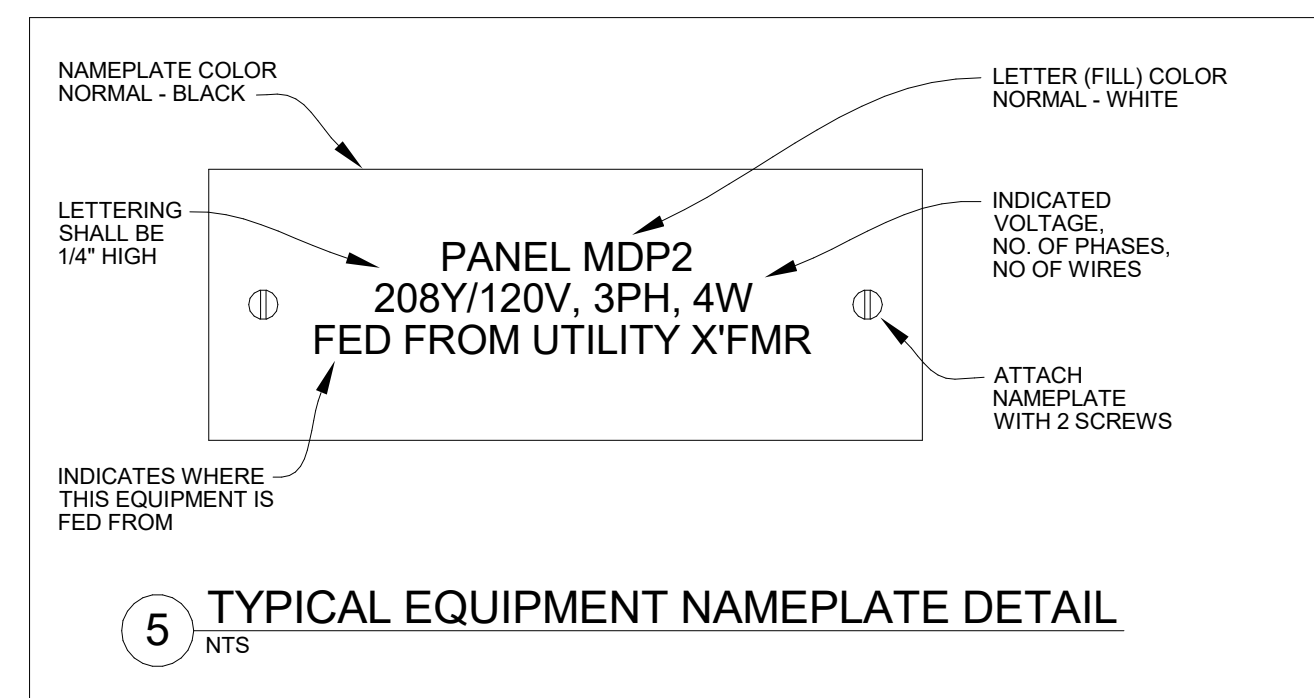


② ENLARGED PUMP HOUSE - LIGHTING
1/4" = 1'-0"

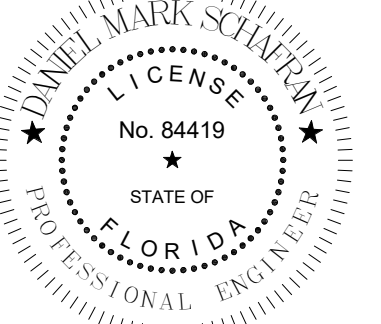


INTERSYSTEM GROUNDING NOTE
ALL GROUNDING SYSTEMS INCLUDING TELEPHONE, DATA, FIRE ALARM, SECURITY, ETC. SHALL BE TIED TOGETHER IN ACCORDANCE WITH NEC ARTICLE 800.100(B)(2)(7). ROUTE #3/0 CU THWN (GREEN) INTERSYSTEM GROUNDING CONDUCTOR FROM MAIN TELECOMMUNICATIONS GROUNDING BUSBAR (TMGB) TO BUILDING MAIN GROUNDING BUSBAR (MGB).

GENERAL NOTES:
1. GROUND ROD FOR TEST POINTS SHALL BE DRIVEN INTO THE GROUND, TOP OF THE ROD SHALL BE 12 INCHES BFG. PROVIDE AN ENCLOSURE WITH A FLIP-OFF TOP COVER TO PROVIDE ACCESS TO THE ROD. IF THIS ENCLOSURE IS IN THE PAVED AREA, THE TOP COVER SHALL BE TRAFFIC RATED.
2. PROVIDE THE TEST WELL WITH CONCRETE PAD. THE PAD SHALL BE 3 1/2 INCHES IN THICKNESS AND SHALL EXTEND AT LEAST ONE (1) FOOT ON ALL SIDES OF THE TEST WELL. INSTALL THE CONCRETE PAD FLUSH WITH THE GROUND.
3. TEST WELLS SHALL BE ACCESSIBLE FOR INSPECTION AND TESTING.



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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438**

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:

DETAILS

SHEET NUMBER:

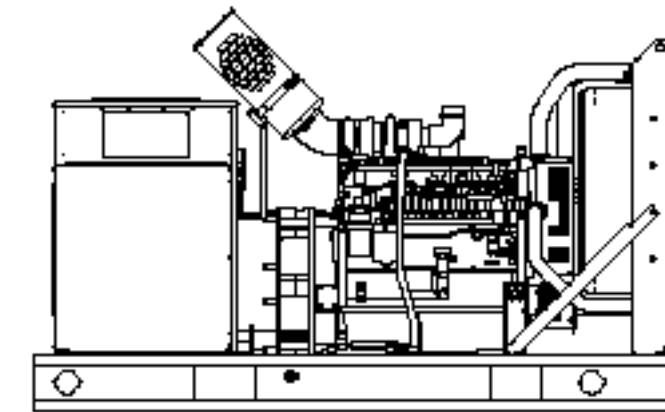
E601

EDITION:
PERMIT SET



Ratings Range

Table with columns for Standby and Prime ratings in kW and kVA



Standard Features

- List of standard features including generator set design, voltage regulator, and alternator specifications.

Generator Set Ratings

Table with columns for Alternator, Voltage, Ph, Hz, 150°C Rise Standby Rating, and 150°C Rise Prime Rating.

NOTES: All three-phase units are rated at 0.8 power factor. All single-phase units are rated at 1.0 power factor.

Standard Features

- List of standard features including alternator protection, battery rack, and customer connection.

Available Options

- List of available options including circuit breaker types, generator set ratings, and enclosure features.

Enclosed Unit

- List of enclosed unit features including sound enclosure, weather enclosure, and fuel system.

Cooling System

- List of cooling system options including block heaters and radiator duct flange.

Electrical System

- List of electrical system options including generator heater and battery.

Paralleling System

- List of paralleling system options including voltage sensing and air cleaner.

Literature

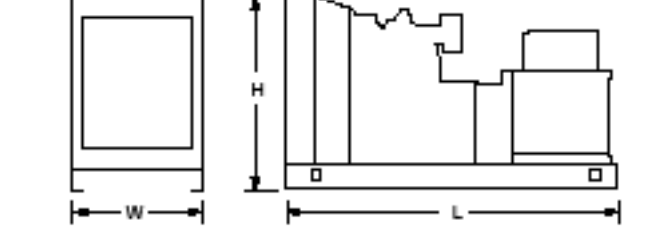
- List of literature options including general maintenance and warranty information.

Dimensions and Weights

- List of dimensions and weights for different models.

Weight (radiant mode), wet, max., kg (lb.)

Table showing weight dimensions and maximum weights for different models.



NOTE: This drawing is provided for reference only and should not be used for planning installation.

DISTRIBUTED BY:



Alternator Specifications

Table with columns for Specifications and Alternator details.

- List of specifications including NEMA MG1, IEEE, and ANSI standards compliance.

Application Data

Table with columns for Engine and Engine Electrical specifications.

- List of application data including battery charging, engine electrical system, and fuel consumption.

Application Data

Table with columns for Cooling and Radiator System specifications.

- List of application data including heat rejected to ambient air and fuel consumption.

Table with columns for Fuel Consumption and Standby Rating.

- List of application data including fuel consumption and volumetric fuel consumption.

Table with columns for Lubrication System and Fuel System specifications.

Controllers



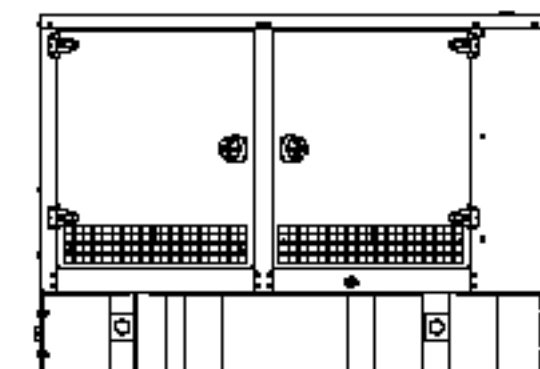
- List of controller features including advanced control, system monitoring, and diagnostics.



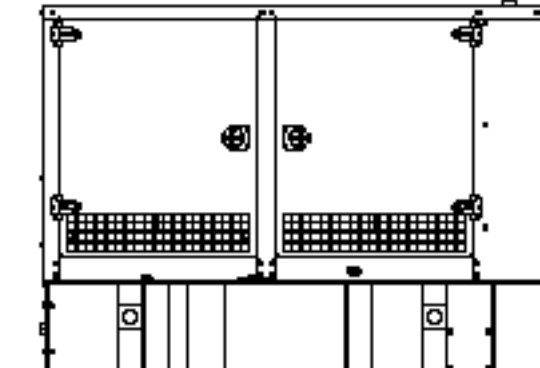
- List of controller features including advanced control, system monitoring, and diagnostics.

Industrial Generator Set Accessories

Weather/Sound Enclosure and Subbase Fuel Tank Package



Enclosure with Standard Subbase Fuel Tank



Enclosure with State Code Subbase Fuel Tank

- List of applicable models for the enclosure and fuel tank package.

Weather Enclosure Standard Features

- List of weather enclosure standard features including internal-mounted silencer and flexible exhaust connector.

Sound Enclosure Standard Features

- List of sound enclosure standard features including acoustic insulation and steel sound enclosure.

Subbase Fuel Tank Features

- List of subbase fuel tank features including fuel tank construction and secondary containment.

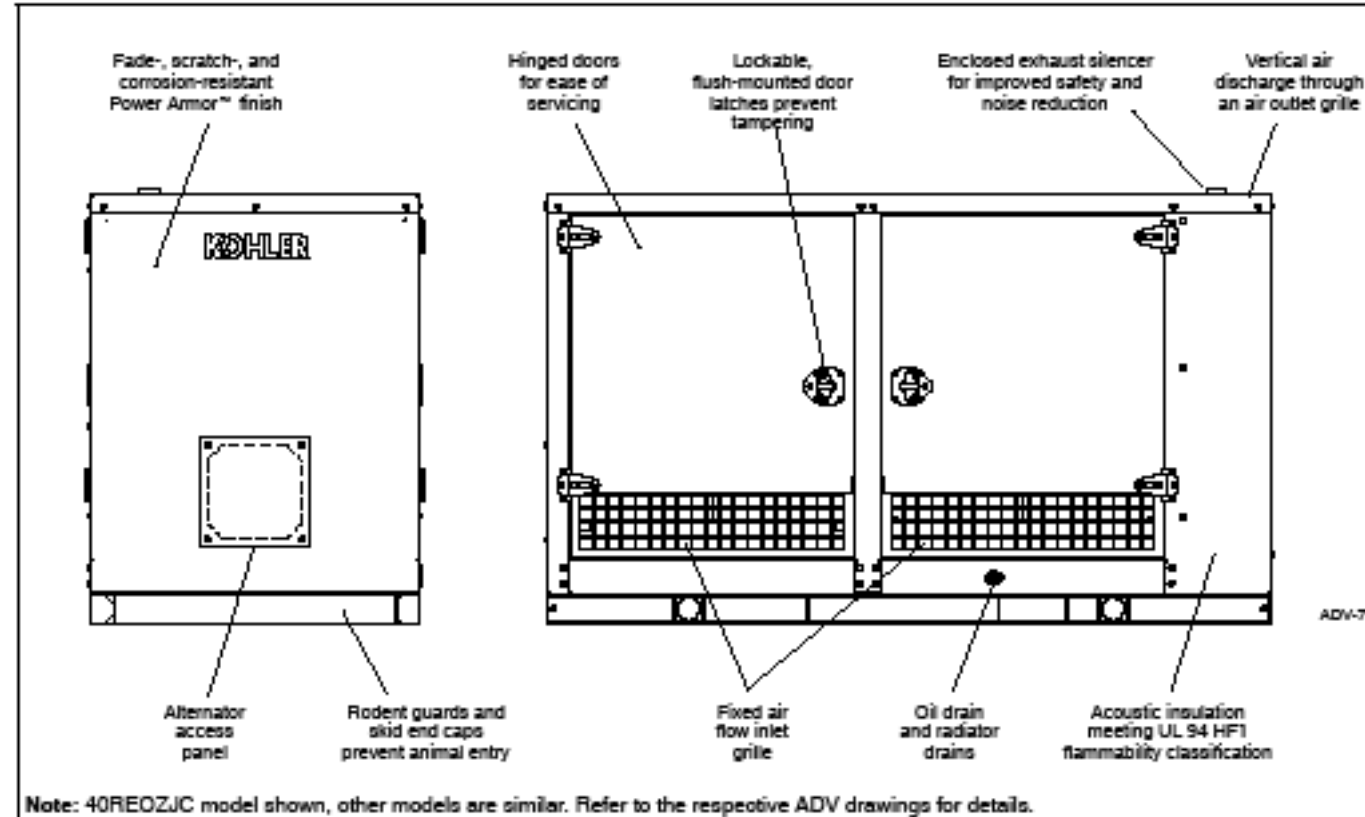
Available Approvals and Listings

- List of approvals and listings including UL 2200, IBC Seismic Certification, and HURRICANE RATED ENCLOSURE.

NOTE: Some models may have limited third-party approvals; see your local distributor for details.

* Requires a state code subbase fuel tank selection.

Weather and Sound Enclosure



Note: 40REOZJC model shown, other models are similar. Refer to the respective ADV drawings for details.

Enclosure Features

- List of enclosure features including steel construction, weather enclosure, and sound enclosure.

Additional Sound Enclosure Features

- List of additional sound enclosure features including acoustic insulation and steel sound enclosure.

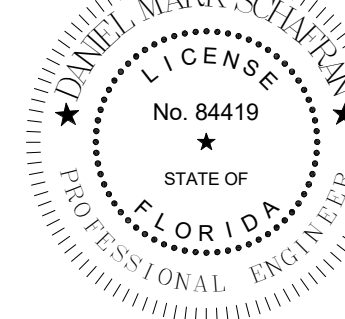
BeharPeteranecz ARCHITECTURE | INTERIORS

840 HARRISON AVE SUITE 101 | PANAMA CITY, FLORIDA 32401

2430 TERMINAL DRIVE SOUTH | ST. PETERSBURG, FLORIDA 33712

(850) 528-6540 | ARCHITECTURE@BP.COM

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FOUNTAIN COMMUNITY COMPLEX FIRE STATION 12421 HIGHWAY 20 FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

Table with columns for Date and Description.

PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE: DETAILS

SHEET NUMBER:

E602

EDITION:

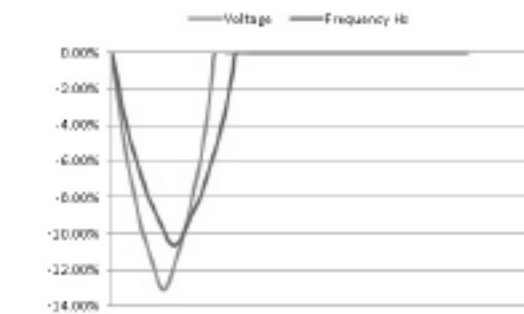
PERMIT SET

KOHLER. Sizing Report

Model : 230REOZJE , Alternator : 4UA13

Load Profile

Step #1	Qty	Run			Start			Volt Dip %	Freq Dip %	Volt. Dist. %
		kW	kVA	PF	kW	kVA	PF			
Linear Load UH-1 3 Phase	1	11.70	11.70	1.00	11.70	11.70	1.00			
Linear Load UH-2 3 Phase	1	11.70	11.70	1.00	11.70	11.70	1.00			
Linear Load UH-3 3 Phase	1	11.70	11.70	1.00	11.70	11.70	1.00			
Linear Load UH-4 3 Phase	1	11.70	11.70	1.00	11.70	11.70	1.00			
Linear Load UH-5 3 Phase	1	11.70	11.70	1.00	11.70	11.70	1.00			
Linear Load EF-3 Phase A-B	1	3.54	3.54	1.00	3.54	3.54	1.00			
Linear Load EF-4 Phase C-N	1	0.12	0.12	1.00	0.12	0.12	1.00			
Linear Load Water Heaters 3 Phase	2	20.00	20.00	1.00	20.00	20.00	1.00			
Linear Load Lighting & Receptacles 3 Phase	1	86.46	86.46	1.00	86.46	86.46	1.00			
Step Total		168.62	168.62	1.00	168.62	168.62	1.00	13	11	0
Cum.Total		168.62	168.62	1.00						



KOHLER. Sizing Report

Project Information

Project Name : Fountain Fire Station
Customer's Name : Genesis Engineering Group
Customer contact : Dylan Norris

Site Requirements

Voltage :	120/208 V	Application :	Fire Stations
Phase :	3	Emission Requirement :	STATIONARY
Frequency Hz :	60 Hz		EMERGENCY (US EPA)
Alt. Temp. Rise	130C STANDBY @40C	Altitude :	500 Feet
Duty :		Max. Ambient Temp. :	95 F
Qty of Gensets :	1	Min. Genset Loading :	30 %
Fuel Type :	DIESEL	Max. Genset Loading :	85 %
Country :	United States		

Site Load Requirements Summary

Running kW :	189.73	Max. Starting kW :	168.62 in Step 1
Running kVA :	189.73	Max. Starting kVA :	168.62 in Step 1
Running P.F. :	1.00		

Generator Selection

Genset Model :	230REOZJE	Alternator :	4UA13
Engine :	6090HF484	Alternator Leads :	12
Displacement :	549.21 cu. In	Alt. Starting kVA at 35% V Dip :	736
RPM :	1800	Cal Alt temp Rise*	80
Rated kW :	230	Excitation System :	PMG
Site Alt / Temp De-Rated kw :	228		
UL 2200 Certified			

Generator Performance Summary

Voltage Dip Limit :	20 %	Calculated Voltage Dip :	13 %
Frequency Dip Limit :	11 %	Calculated Frequency Dip :	11 %
Harmonic Distortion Limit :	10 %	Calculated Harmonic Distortion :	0 %
		Calculated Genset % Loaded :	83 %

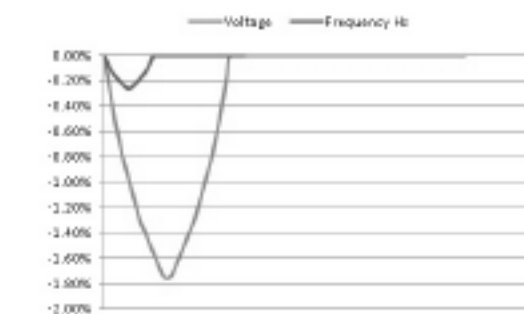
Report prepared by : David Adams
KOHLER Power Solutions Center
22 August 2024

The analysis provided from Power Solutions Center are for reference only. The installer must work with the local distributor and technician to confirm actual requirements when planning the installation. Kohler Energy reserves the right to change design or specifications without notice and without any obligation or liability whatsoever. Kohler Energy expressly disclaims any responsibility for consequential damages.

Report prepared by : David Adams
KOHLER Power Solutions Center
22 August 2024
2

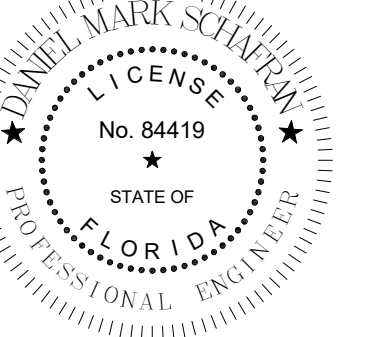
KOHLER. Sizing Report

Step #2	Qty	Run			Start			Volt Dip %	Freq Dip %	Volt. Dist. %
		kW	kVA	PF	kW	kVA	PF			
Air Conditioner IDU / ODU - 1 3 Phase ACROSS THE LINE	1	1.11	1.58	0.70	7.19	10.58	0.68			
Linear Load AHU-1 / HP-1 3 Phase	1	4.00	4.00	1.00	4.00	4.00	1.00			
Linear Load AHU-2 / HP-2 3 Phase	1	8.00	8.00	1.00	8.00	8.00	1.00			
Linear Load AHU-3 / HP-3 3 Phase	1	8.00	8.00	1.00	8.00	8.00	1.00			
Step Total		21.11	21.14	1.00	27.19	38.28	0.96	2	0	0
Cum.Total		189.73	189.73	1.00						
Grand Total		189.73	189.73	1.00				13	11	0



Report prepared by : David Adams
KOHLER Power Solutions Center
22 August 2024
3

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FOUNTAIN COMMUNITY COMPLEX FIRE STATION
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE: DETAILS

SHEET NUMBER: E603

EDITION: PERMIT SET

COMcheck Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 90.1 (2019) Standard
 Project Title: 24-064 Fountain Fire Station
 Project Type: New Construction

Construction Site: 12421 Highway 20, Fountain, Florida 32438
 Owner/Agent: Behar Peteranecz Architecture, 2430 Terminal Drive South, St. Petersburg, Florida 33712
 Designer/Contractor: Genesis Engineering Group, 6700 Professional Parkway W, Sarasota, Florida 34240

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Fire Station	5768	0.56	3230
2-Workshop	211	0.92	194
Total Allowed Watts =			3424

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Watt. (C X D)	E
1-Fire Station				
LED- L1: Other	1	30	33	990
LED- L1: Other	1	12	14	168
LED- R1: Other	1	2	19	38
LED- R2: Other	1	2	14	28
LED- R3: Other	1	2	19	38
LED- HB: Other	1	9	178	1602
LED- U2: Other	1	3	18	54
LED- W1: Other	1	4	27	108
LED- S1: Other	1	2	20	40
LED- S2: Other	1	1	25	25
LED- S3: Other	1	5	26	130
2-Workshop				
LED- W1: Other	1	1	27	27
LED- U4: Other	1	3	33	99
Total Proposed Watts =			3347	

Interior Lighting PASSEs: Design 2% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 90.1 (2019) Standard requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: 24-064 Fountain Fire Station Report date: 09/16/24
 Data filename: Page 1 of 5

Section # & Req-ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
8.4.2 [EL10]²	At least 50% of all 125 volt 15- and 20-Amp receptacles are controlled by an automatic control device.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions Requirement does not apply.
8.4.3 [EL11]²	New buildings have electrical energy use measurement devices installed. Where tenant spaces exist, each tenant is monitored separately. In buildings with a digital control system, the energy use is transmitted to a control system and displayed graphically.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.1 [EL1]²	Automatic control requirements prescribed in Table 9.6.1, for the appropriate space type, are installed. Mandatory lighting controls (labeled as "REQ") and optional choice controls (labeled as "ADD1" and "ADD2") are implemented.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.1 [EL2]²	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.4.1.1f [EL13]²	Daylight areas under skylights and roof monitors that have more than 150 W combined input power for general lighting are controlled by photocensors.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exceptions Requirement does not apply.
9.4.1.3 [EL4]²	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.6.2 [EL8]²	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: 24-064 Fountain Fire Station Report date: 09/16/24
 Data filename: Page 4 of 5

Name - Title Signature Date

COMcheck Software Version COMcheckWeb

Inspection Checklist

Energy Code: 90.1 (2019) Standard

Requirements: 100.0% were addressed directly in the COMcheck software. Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req-ID	Plan Review	Complies?	Comments/Assumptions
4.2.2, 8.4.1.1, 8.4.1.2, 8.7 [FR6]²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the electrical systems and equipment and document where exceptions are claimed. Feeder connectors sized in accordance with approved plans and branch circuits sized for maximum drop of 3%.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
4.2.2, 9.4.2, 9.7 [FR4]²	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

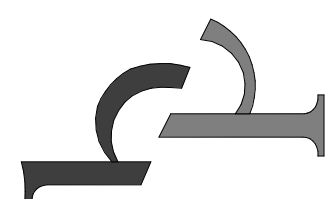
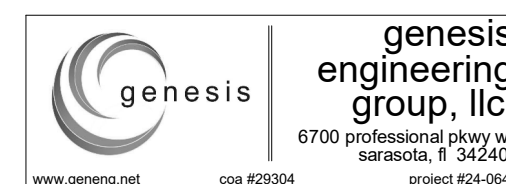
Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: 24-064 Fountain Fire Station Report date: 09/16/24
 Data filename: Page 3 of 5

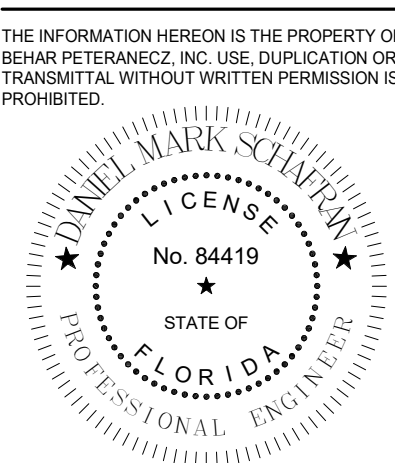
Section # & Req-ID	Final Inspection	Complies?	Comments/Assumptions
8.7.1 [FI16]²	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
8.7.2 [FI17]²	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
9.2.2.3 [FI18]²	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the interior lighting fixture schedule for values.
9.4.4 [FI20]²	At least 75% of all permanently installed lighting fixtures in dwelling units have >= 55 lm/W efficacy or >= 45 lm/W total luminaire efficacy.	<input type="checkbox"/> Complies <input checked="" type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: 24-064 Fountain Fire Station Report date: 09/16/24
 Data filename: Page 5 of 5



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FOUNTAIN COMMUNITY
 COMPLEX FIRE STATION
 12421 HIGHWAY 20
 FOUNTAIN, FLORIDA 32438

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:

ENERGY COMPLIANCE

SHEET NUMBER:

E700

EDITION:
 PERMIT SET

PLUMBING SYMBOL LEGEND

SYMBOL	DESCRIPTION
=====	- DOMESTIC COLD WATER PIPING
=====	- DOMESTIC COLD WATER PIPING, HIGH PRESSURE MAIN
=====	- DOMESTIC HOT WATER PIPING, BETWEEN 110°F & 120°F
=====	- DOMESTIC HOT WATER PIPING (120°F MAXIMUM)
=====	- DOMESTIC HOT WATER PIPING (140°F MAXIMUM)
=====	- DOMESTIC HOT WATER CIRCULATION PIPING (115°F MAXIMUM)
=====	- DOMESTIC HOT WATER CIRCULATION PIPING (135°F MAXIMUM)
=====	- GREASE SANITARY SEWER PIPING
=====	- GREASE SANITARY SEWER PIPING, UNDERGROUND
=====	- SANITARY SEWER PIPING
=====	- SANITARY SEWER PIPING, UNDERGROUND
=====	- STORM DRAIN PIPING
=====	- STORM DRAIN PIPING, UNDERGROUND
=====	- OVERFLOW STORM DRAIN PIPING
=====	- CONDENSATE PIPING
=====	- LIQUID PROPANE GAS PIPING
=====	- NATURAL GAS PIPING, LESS THAN 2 PSI
=====	- NATURAL GAS PIPING, 2 PSI OR GREATER. REFER TO PLANS FOR PRESSURE
=====	- PUMPED SANITARY SEWER PIPING
=====	- PUMPED STORM DRAIN PIPING
=====	- VENT PIPING
=====	- POINT OF DEMOLITION EXTENTS
=====	- POINT OF CONNECTION
=====	- ENLARGED PLAN REFERENCE: VIEW NUMBER / SHEET NUMBER

PIPING ELEMENTS / VALVING*

- PRESSURE REDUCING VALVE (PRV)
- BALL VALVE
- GLOBE VALVE
- PLUG VALVE
- BUTTERFLY VALVE
- SWING CHECK VALVE
- LIFT CHECK VALVE
- GATE VALVE, ANGLE
- GLOBE VALVE, ANGLE
- THREE WAY CONTROL VALVE
- TWO WAY CONTROL VALVE
- SOLENOID VALVE
- TEMPERATURE AND PRESSURE RELIEF VALVE
- RELIEF/SAFETY VALVE
- GAS COCK
- GAS PRESSURE REGULATOR
- STRAINER
- STRAINER WITH BLOW OFF VALVE
- FLEXIBLE-CONNECTION
- SPRINKLER HEAD
- PIPE RISING UP
- PIPE DROPPING DOWN
- UNION - SCREWED OR FLANGED
- FLOW SWITCH
- TEMPERATURE TRANSMITTER
- PRESSURE TRANSMITTER OR PRESSURE SWITCH
- THERMOMETER/TEMPERATURE INDICATOR
- GAUGE WITH GAUGE COCK/ PRESSURE INDICATOR
- BACKFLOW PREVENTER (REDUCED PRESSURE ZONE)
- BACKFLOW PREVENTER (DOUBLE CHECK VALVE ASSEMBLY)
- WATER HAMMER ARRESTER
- CALIBRATED BALANCING VALVE
- AQUASTAT
- SUB-METER
- PUMP
- PIPE CONTINUATION

PLUMBING ABBREVIATIONS

AD	- AREA DRAIN	KW	- KILOWATT
AFF	- ABOVE FINISH FLOOR	LP	- LIQUID PROPANE
BFF	- BELOW FINISH FLOOR	MV	- MIXING VALVE
BFP	- BACK FLOW PREVENTOR	NG	- NATURAL GAS
CD	- CONDENSATE DRAIN	NTS	- NOT TO SCALE
CFH	- CUBIC FEET PER HOUR	OSD	- OVERFLOW STORM DRAIN
CO	- CLEAN OUT	P&ID	- PIPING AND INSTRUMENT DIAGRAM
CW	- COLD WATER	PSS	- PUMPED SANITARY SEWER
DN	- DOWN	PSD	- PUMPED STORM DRAIN
(E)	- EXISTING	PSI	- POUNDS PER SQUARE INCH
*F	- DEGREES FAHRENHEIT	PVC	- POLYVINYL CHLORIDE PIPE
FCO	- FLOOR CLEAN OUT	SD	- STORM DRAIN
FD	- FLOOR DRAIN	SOV	- SHUT OFF VALVE
GPH	- GALLONS PER HOUR	SS	- SANITARY SEWER
GPM	- GALLONS PER MINUTE	SF	- SQUARE FEET
HW	- HOT WATER	V	- VENT
HWC	- HOT WATER RECIRCULATION	VTR	- VENT THRU ROOF
I.E.	- INVERT ELEVATION	WCO	- WALL CLEAN OUT

PLUMBING GENERAL NOTES

- DO NOT SCALE FROM THESE DRAWINGS. EXACT DIMENSIONS SHALL BE TAKEN FROM ARCHITECTURAL DRAWINGS.
- ALL INDICATED WORK SHALL BE PERFORMED BY THE PLUMBING CONTRACTOR UNLESS OTHERWISE NOTED.
- ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH REQUIREMENTS OF ALL APPLICABLE CODES AND REGULATIONS INCLUDING BUT NOT LIMITED TO NATIONAL, CITY, STATE, AND LOCAL ORDINANCES WHICH ARE IN EFFECT. ALL PLUMBING MATERIALS, INSTALLATION PROCEDURES AND SYSTEM LAYOUTS SHALL BE APPROVED BY ALL APPLICABLE CODE ENFORCEMENT AUTHORITIES HAVING JURISDICTION, AND IT SHALL BE THE PLUMBING CONTRACTOR'S RESPONSIBILITY TO PAY FOR ALL NECESSARY PERMITS AND APPROVALS FOR THIS INSTALLATION.
- IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO REVIEW THESE PLANS AND SPECIFICATIONS, AS WELL AS RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS TO BECOME FAMILIAR WITH THE FULL PROJECT SCOPE. IN ADDITION, THIS CONTRACTOR MUST COORDINATE WITH AN OWNER REPRESENTATIVE TO FULLY UNDERSTAND ALL REQUIREMENTS WHICH MAY NOT BE SPECIFIED HEREIN AND WHICH THE OWNER CONSIDERS PART OF THIS CONTRACT. DURING THE COURSE OF CONSTRUCTION COORDINATION AND ACTUAL CONSTRUCTION, IT IS THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO WORK CLOSELY WITH ALL ACCOMPANYING CONTRACTORS AND TRADESMEN IN ORDER TO ENSURE A SMOOTH RUNNING AND CAREFULLY COORDINATED INSTALLATION.
- ANY DISCREPANCIES OR INADEQUACIES WITHIN THESE BID DOCUMENTS OR BETWEEN THESE BID DOCUMENTS AND RELATED HVAC, FIRE PROTECTION, ELECTRICAL, STRUCTURAL, ARCHITECTURAL, INTERIOR DECOR, AND SITE ENGINEERING DRAWINGS, OR BETWEEN THESE BID DOCUMENTS AND FIELD CONDITIONS MUST BE BROUGHT TO THE ATTENTION OF THE OWNER, ARCHITECT, AND ENGINEERS PRIOR TO BID SUBMISSION.
- THE PLUMBING CONTRACTOR MUST VISIT THE SITE AND NOTE ALL EXISTING CONDITIONS AS WELL AS CONDITIONS TO BE MET PRIOR TO BID SUBMISSION. LACK OF A THOROUGH UNDERSTANDING OF THE PROJECT SCOPE AND CONDITIONS SHALL NOT CONSTITUTE AN EXCUSE FOR ERRORS OR OMISSIONS, NOR FOR A REQUEST FOR EXTRA COMPENSATION.
- IT IS CRITICAL THAT THE PLUMBING CONTRACTOR FIELD VERIFIES ALL EXISTING INVERT ELEVATIONS PRIOR TO BID SUBMISSION. IF ANY CONFLICTS EXIST BETWEEN THE NEW PLUMBING SYSTEMS AND THE EXISTING SITE LEVEL SYSTEMS, THE CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF AN OWNER'S REPRESENTATIVE AND THE ENGINEERS PRIOR TO BID SUBMISSION. EXTRA COMPENSATION WILL NOT BE GRANTED FOR ANY EXTRA WORK OR MATERIAL WHICH RESULTS FROM AN INABILITY TO MEET THE INVERTS OF THE EXISTING SITE LEVEL PIPING SYSTEMS.
- THE PLUMBING CONTRACTOR SHALL PROVIDE A COMPLETE SET OF RECORD "AS-BUILT" DRAWINGS, IN CAD FORMAT, INDICATING THE PRECISE LOCATIONS OF ALL SYSTEMS, EQUIPMENT, CONCEALED OR EMBEDDED PIPING, PIPING CONNECTIONS, AND ACCESS DOORS. THESE DRAWINGS SHALL ALSO INCLUDE ALL CHANGES AND DEVIATIONS FROM THE BID DOCUMENTS.
- RUN ALL DOMESTIC WATER, WASTE, VENT, AND GAS PIPING AS HIGH AS POSSIBLE THROUGHOUT THE ENTIRE BUILDING. INSTALL LONG RUNS OF PIPING WITHIN JOIST SPACE AND OTHER PIPING TIGHT TO BOTTOM OF STRUCTURE. COORDINATE AND VERIFY WITH OTHER CONTRACTORS AS NOT TO INTERFERE WITH DUCTWORK, FIRE PROTECTION PIPING, LIGHTING SYSTEMS, CONDUIT RUNS, ETC.
- ALL EXPOSED HORIZONTAL AND VERTICAL PIPING SHALL BE INSTALLED IN A NEAT ARRANGEMENT IN LOCATIONS WHICH ARE THE MOST INCONSPICUOUS. VERTICAL DROPS SHALL BE KEPT TO AN ABSOLUTE MINIMUM AND THEIR FINAL LOCATIONS SHALL BE COORDINATED AND RUN WITHIN CHASES, WALLS, OR SOFFITS WITH OTHER MECHANICAL/ELECTRICAL FEEDS WHERE POSSIBLE. ALL SUCH LOCATIONS SHALL BE REVIEWED WITH AN OWNER REPRESENTATIVE AND ARCHITECT PRIOR TO INSTALLATION.
- ALL PIPING, MATERIALS, FIXTURES, AND EQUIPMENT SHALL COMPLY WITH THE REQUIREMENTS OF THE BUILD AMERICA ACT.
- ALL DOMESTIC WATER BRANCH LINES SHALL HAVE THEIR OWN RESPECTIVE SHUTOFF VALVES WHETHER SHOWN ON THE DRAWINGS OR NOT.
- DOMESTIC WATER HEATER TEMPERATURE & PRESSURE RELIEF VALVES SHALL BE PIPED FULL SIZE TO THE NEAREST APPROVED TERMINAL LOCATION WITH REQUIRED AIR GAP. THIS REQUIREMENT SHALL ALSO BE APPLICABLE TO ALL DOMESTIC WATER HEATING STORAGE VESSELS. INSTANTANEOUS WATER HEATERS NOT STORING WATER SHALL NOT REQUIRE TEMPERATURE & PRESSURE RELIEF VALVES.
- THE PLUMBING CONTRACTOR SHALL RUN OUT ALL BUILDING DRAINAGE AND WASTE LINES WHERE SHOWN ON THE DRAWINGS AND MAKE ALL CONNECTIONS TO SITE LEVEL SYSTEMS.
- ALL EXPOSED PIPING BELOW LAVATORIES DESIGNATED AS ADA ACCESSIBLE SHALL BE TOTALLY INSULATED FOR PROTECTION PER ADA REQUIREMENTS.
- ALL ROOF DRAIN SUMPS AND HORIZONTAL STORM DRAINAGE PIPING LOCATED ABOVE CEILING SHALL BE FULLY INSULATED INCLUDING ALL FITTINGS.
- ALL NON-DRAINAGE PIPING SHALL BE RUN LEVEL AND GENERALLY FREE OF TRAPS AND UNNECESSARY BENDS, ARRANGED TO CONFORM TO THE BUILDING REQUIREMENTS, AND TO SUIT THE NECESSITIES OF CLEARANCES FOR WORK OF MECHANICAL AND OTHER TRADES. PROVIDE VALVED DRAINAGE OUTLETS IN AREAS OF PIPING WHICH ARE UNDRAINABLE DURING MAINTENANCE OR REPAIRS.
- ALL REQUIRED OFFSETS, RISES, AND DROPS DUE TO POSSIBLE OBSTRUCTIONS OF PIPE RUNS ARE NOT NECESSARILY SHOWN. PLUMBING CONTRACTOR SHALL PROVIDE ALL REQUIRED OFFSETS NECESSARY FOR FINAL COORDINATION WITH OTHER TRADES AND STRUCTURE.
- THROUGH PENETRATIONS OF FIRE RESISTANCE RATED HORIZONTAL ASSEMBLIES SHALL BE PROTECTED BY AN APPROVED THROUGH-PENETRATION FIRESTOP SYSTEM INSTALLED AND TESTED IN ACCORDANCE WITH ASTM E 814 OR UL 1479, WITH A MINIMUM POSITIVE PRESSURE DIFFERENTIAL OF 0.01 INCH OF WATER (2.49 PA). THE SYSTEM SHALL HAVE AN F RATING/RATING OF NOT LESS THAN 1 HOUR BUT NOT LESS THAN THE REQUIRED RATING OF THE FLOOR PENETRATED. SEE ARCHITECTURAL DRAWINGS FOR RATED ASSEMBLY LOCATIONS, RATINGS, AND ASSOCIATED DETAILS.

- EXCEPTIONS:
- FLOOR PENETRATIONS CONTAINED AND LOCATED WITHIN THE CAVITY OF A WALL, ABOVE THE FLOOR, OR BELOW THE FLOOR DO NOT REQUIRE A T RATING.
 - FLOOR PENETRATIONS BY FLOOR DRAINS, TUB DRAINS, OR SHOWER DRAINS CONTAINED AND LOCATED WITHIN THE CONCEALED SPACE OF A HORIZONTAL ASSEMBLY DO NOT REQUIRE A T RATING.

- FLUSH LEVERS FOR ADA ACCESSIBLE WATER CLOSETS SHALL BE LOCATED ON THE APPROACH SIDE (WIDE SIDE OF ROOM) OF THE FIXTURE.
- CLEANOUTS SHALL BE PROVIDED IN ACCORDANCE WITH LOCAL CODE REQUIREMENTS, INCLUDING AT THE BASE OF ALL DRAINAGE STACKS.
- ALL PLUMBING EQUIPMENT, INSULATION, PIPING, ETC. INSTALLED IN HVAC RETURN AIR PLENUMS SHALL MEET CODE REQUIREMENTS FOR FLAME SPREAD AND SMOKE DEVELOPMENT RATINGS (FLAME 25 / SMOKE 50), WHEN TESTED IN ACCORDANCE WITH ASTM E84 OR UL 273.
- ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH ELECTRICAL DRAWINGS.
- ALL PLUMBING EQUIPMENT SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S REQUIREMENTS. MANUFACTURER RECOMMENDATIONS ARE DEEMED REQUIREMENTS.
- WATER PIPING ROUTED ABOVE CEILING AND IN EXTERIOR WALLS SHALL BE ROUTED ON HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION. PIPING SHALL NOT BE INSTALLED IN LOCATIONS SUBJECT TO FREEZING CONDITIONS.
- WATER HAMMER ARRESTORS, SIZED PER PDI, SHALL BE PROVIDED ON THE SUPPLY PIPING TO EACH QUICK CLOSING VALVE (E.G. WATER CLOSETS, URINALS, SENSOR OPERATED FAUCETS, ICE MACHINE SUPPLY BOXES, WATER COOLERS, WASHING MACHINE SUPPLY BOXES, DISHWASHERS, ETC). ARRESTORS SHALL BE DOUBLE SEAL PISTON TYPE WITH THREADED CONNECTIONS, LISTED FOR CONCEALED INSTALLATIONS WITHOUT ACCESS PANELS.

ISSUED DRAWING LOG:

#	Date	Description

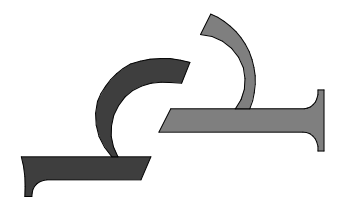
PROJECT NO: **23.014**

ISSUE DATE: **09.17.2024**

DRAWING TITLE: **LEGENDS AND NOTES**

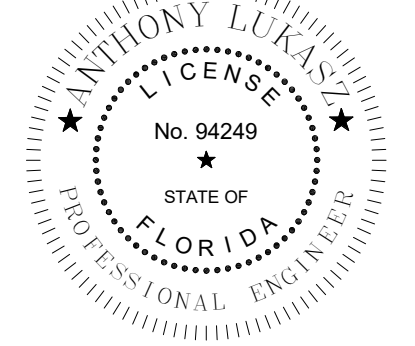
SHEET NUMBER: **P000**

EDITION: **PERMIT SET**



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840 HARRISON AVE SUITE 101 | PANAMA CITY, FLORIDA 32401
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COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

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#	Date	Description

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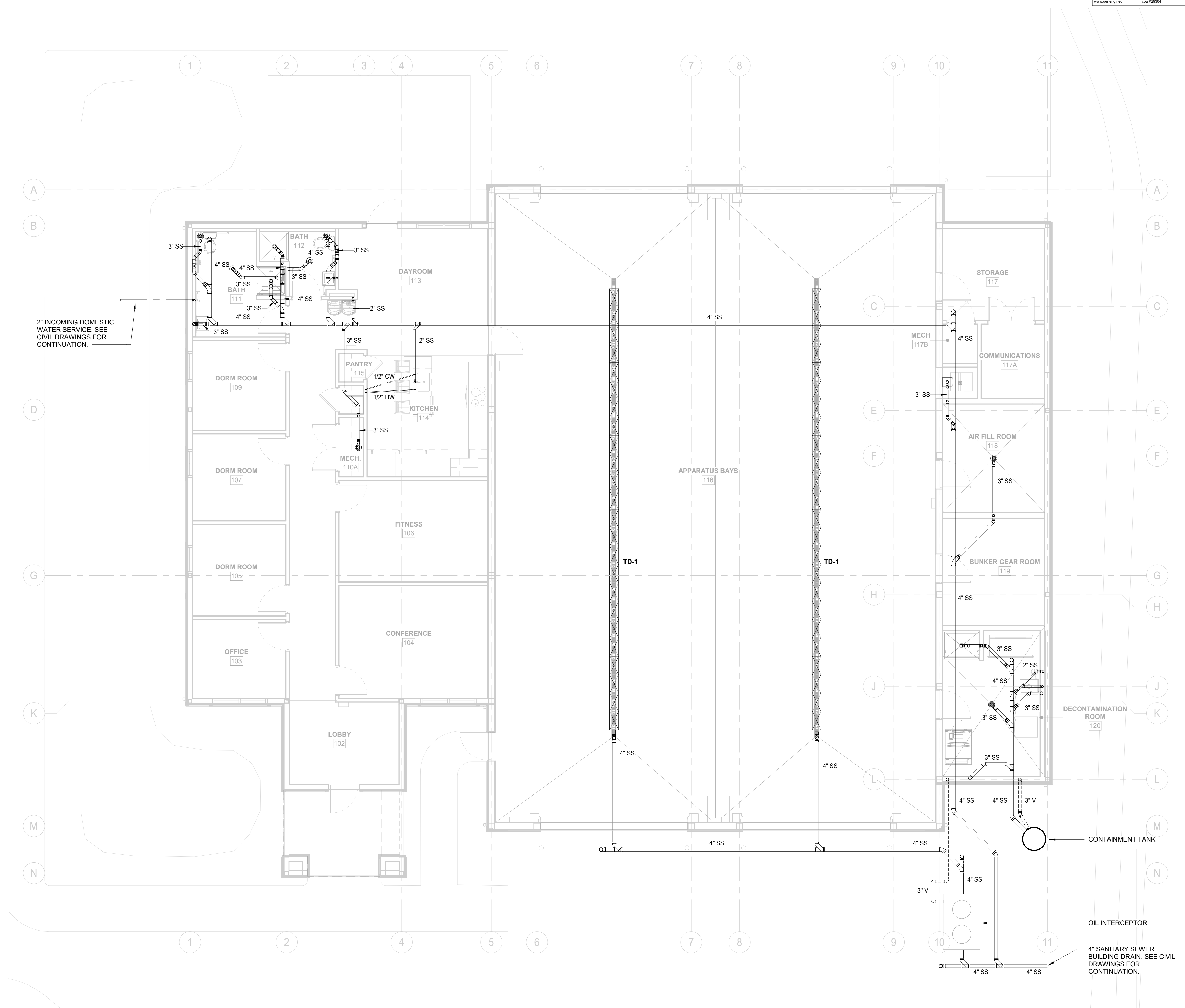
ISSUE DATE: 09.17.2024

DRAWING TITLE:
**UNDERGROUND
PLAN**

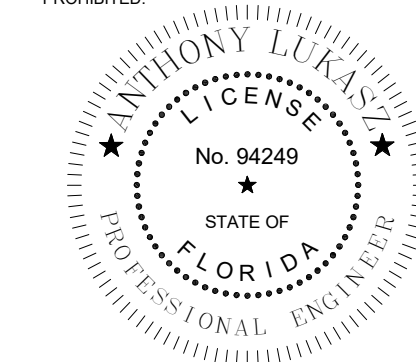
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ISSUED DRAWING LOG:

▲	Date	Description

PROJECT NO: 23.014

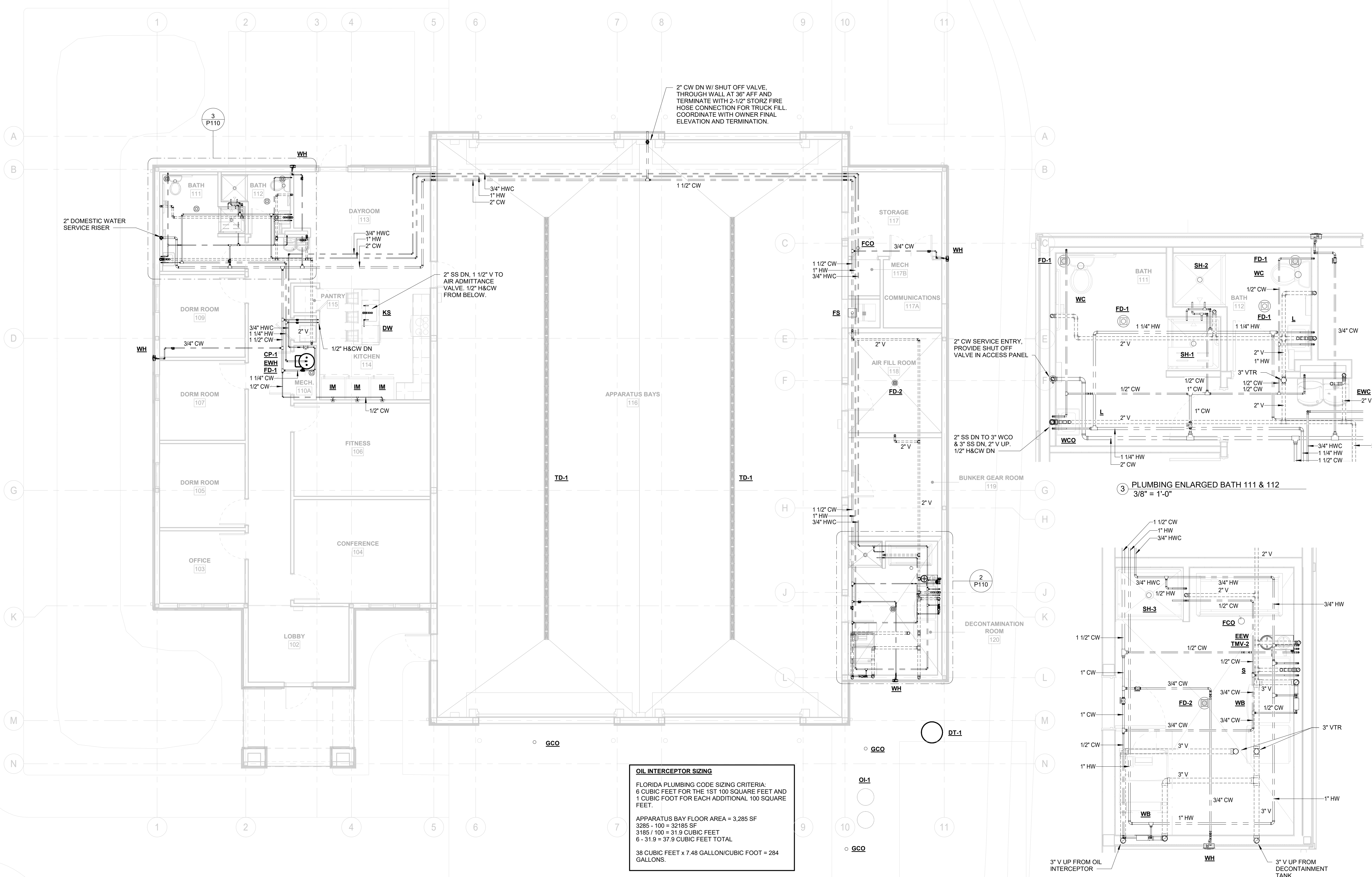
ISSUE DATE: 09.17.2024

DRAWING TITLE: GROUND LEVEL PLAN

SHEET NUMBER: P110

EDITION: PERMIT SET

PERMIT SET



2" DOMESTIC WATER SERVICE RISER

2" CW DN W/ SHUT OFF VALVE, THROUGH WALL AT 36" AFF AND TERMINATE WITH 2-1/2" STORZ FIRE HOSE CONNECTION FOR TRUCK FILL. COORDINATE WITH OWNER FINAL ELEVATION AND TERMINATION.

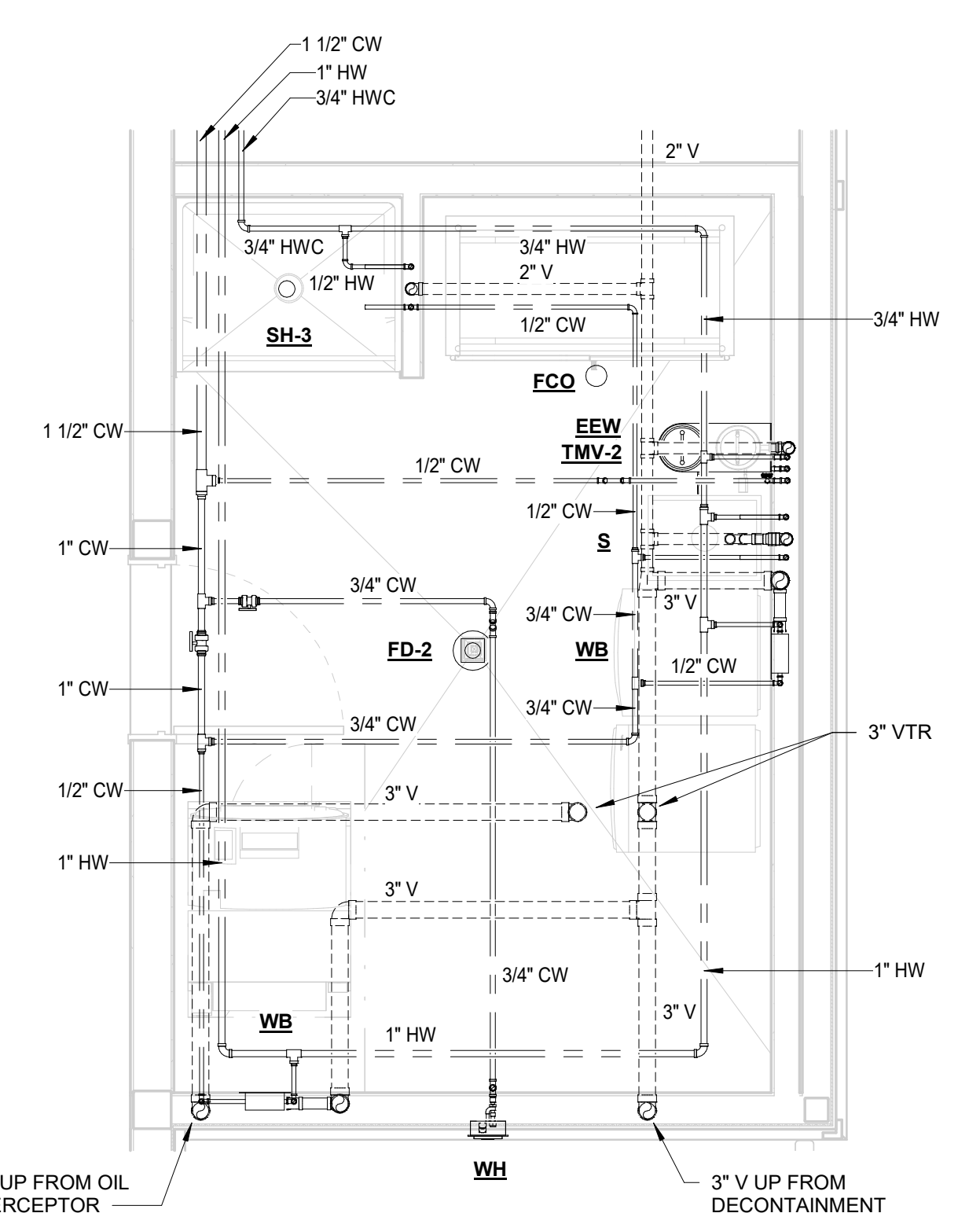
2" SS DN, 1 1/2" V TO AIR ADMITTANCE VALVE. 1/2" H&CW FROM BELOW.

2" CW SERVICE ENTRY, PROVIDE SHUT OFF VALVE IN ACCESS PANEL

2" SS DN TO 3" WCO & 3" SS DN, 2" V UP, 1/2" H&CW DN

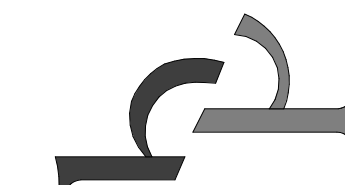
OIL INTERCEPTOR SIZING
 FLORIDA PLUMBING CODE SIZING CRITERIA:
 6 CUBIC FEET FOR THE 1ST 100 SQUARE FEET AND 1 CUBIC FOOT FOR EACH ADDITIONAL 100 SQUARE FEET.
 APPARATUS BAY FLOOR AREA = 3,285 SF
 3285 / 100 = 32.85 SF
 3185 / 100 = 31.9 CUBIC FEET
 6 - 31.9 = 37.9 CUBIC FEET TOTAL
 38 CUBIC FEET x 7.48 GALLON/CUBIC FOOT = 284 GALLONS.

3 PLUMBING ENLARGED BATH 111 & 112
 3/8" = 1'-0"



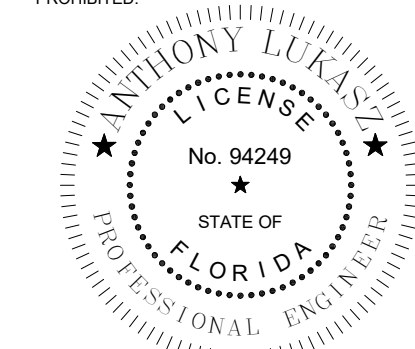
2 PLUMBING ENLARGED DECONTAMINATION ROOM - 120
 3/8" = 1'-0"

1 PLUMBING GROUND LEVEL PLAN
 3/16" = 1'-0"



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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:

SCHEDULES

SHEET NUMBER:

P210

EDITION:

PERMIT SET

ELECTRIC WATER HEATER SCHEDULE

MARK	EQUIPMENT INFORMATION		SERVICE	HEATING CHARACTERISTICS		STORAGE (GALLONS)	ELECTRICAL CHARACTERISTICS			
	MAKE	MODEL NUMBER		RECOVERY (GPH @ F°)	DELTA REQUIRED (F°)		VOLTS	PHASE	ELEMENT OUTPUT	ENERGY EFFICIENCY
EW1	AO SMITH	DRE-80	FACILITY	68 @ 90°	70°	80	208	3	15	-

NOTES
1. PROVIDE SERVICE CLEARANCES ON ALL SIDES AS PER MANUFACTURER'S RECOMMENDATIONS.
2. INTEGRAL HEAT TRAPS
3. SET ON 12" TALL STAND
4. PROVIDE DRAIN PAN.
5. PROVIDE EXPANSION TANK PER SCHEDULE.

HOT WATER RECIRCULATION PUMP SCHEDULE

MARK	EQUIPMENT INFORMATION		PUMP AFFINITY				PUMP REDUNDENCY SPLIT	PUMP QUANTITY	PUMP POWER (HP)	ELECTRICAL CHARACTERISTICS		
	MAKE	MODEL NUMBER	SUCTION PRESSURE (PSI / FT. HEAD)	DISCHARGE (GPM)	DISCHARGE PRESSURE (PSI / FT. HEAD)	IMPELLER (RPM)				VOLTS	PHASE	FLA/LRA
CP-1	BELL AND GOSSETT	ECO CIRC 20-18	-	1	2.33 / 10	-	100	1	1/6	115	1	

EXPANSION TANK SCHEDULE

MARK	EQUIPMENT INFORMATION		VOLUME CHARACTERISTICS		SYSTEM CONNECTION	SPACE / WEIGHT CHARACTERISTICS		
	MAKE	MODEL NUMBER	TANK VOLUME (GPM)	MAX OPERATING PRESSURE (PSI)		HEIGHT	DIAMETER	OPERATING WEIGHT (LBS.)
ET-1	AMTROL	ST-30VC-DD	16.5	150	3/4"	25"	15"	196

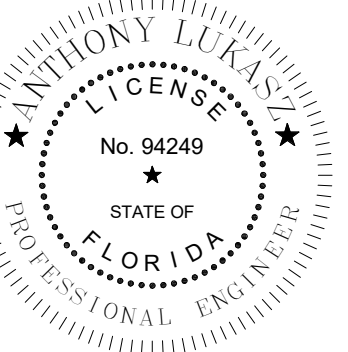
SAND OIL INTERCEPTOR SCHEDULE

MARK	EQUIPMENT INFORMATION		VOLUME CHARACTERISTICS		SYSTEM CONNECTION	SPACE / WEIGHT CHARACTERISTICS		
	MAKE	MODEL NUMBER	TANK VOLUME (GPM)	NUMBER OF TANKS		LENGTH	WIDTH	HEIGHT
OI-1	OLDCASTLE PRECAST	660-SA-550	550	1	4"	6'	4'	6'

DECONTAMINATION TANK SCHEDULE

MARK	EQUIPMENT INFORMATION		VOLUME CHARACTERISTICS		SYSTEM CONNECTION	SPACE / WEIGHT CHARACTERISTICS		
	MAKE	MODEL NUMBER	TANK VOLUME	NUMBER OF TANKS		LENGTH	WIDTH	HEIGHT
DT-1	TOWN & COUNTRY PLASTICS	TC-500-DECON-AK-C-DI-HLA	500 GAL	1	4"	111"	64"	45"

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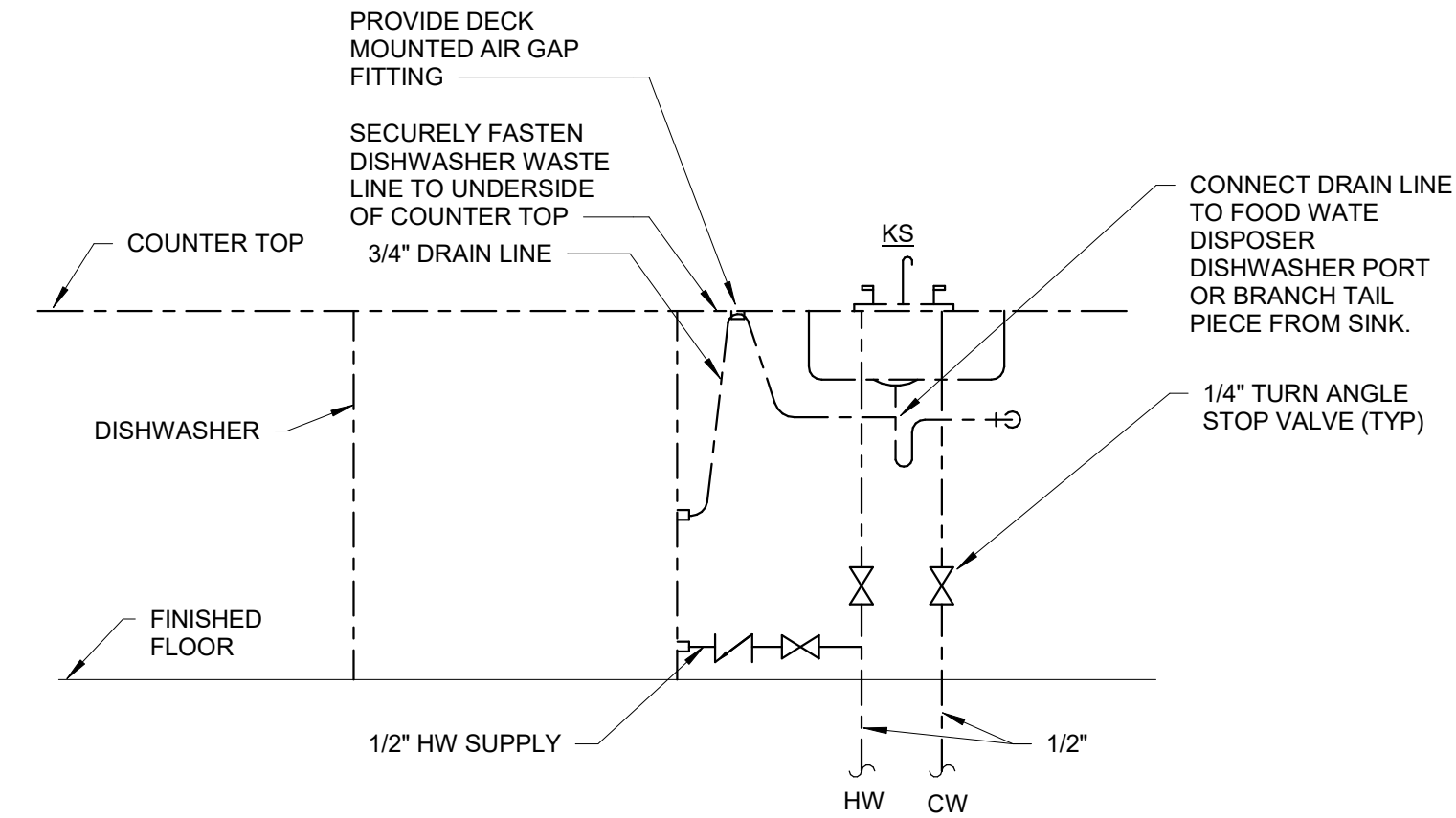


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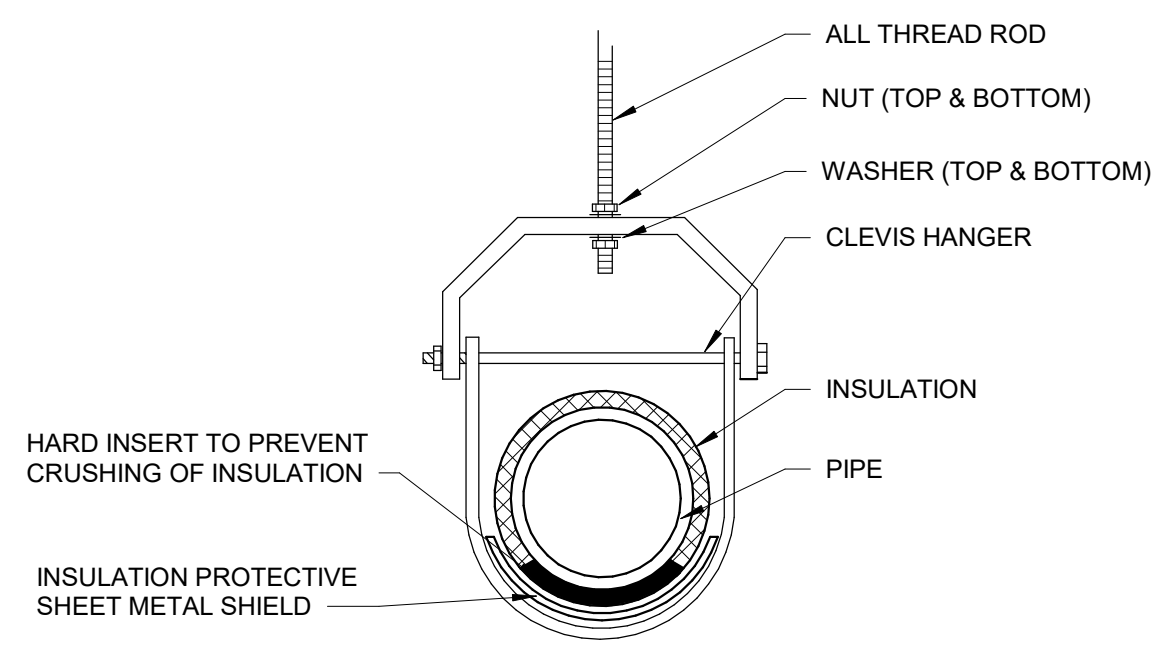
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PROJECT NO: 23.014
ISSUE DATE: 09.17.2024
DRAWING TITLE: DETAILS
SHEET NUMBER: P300
EDITION:
PERMIT SET

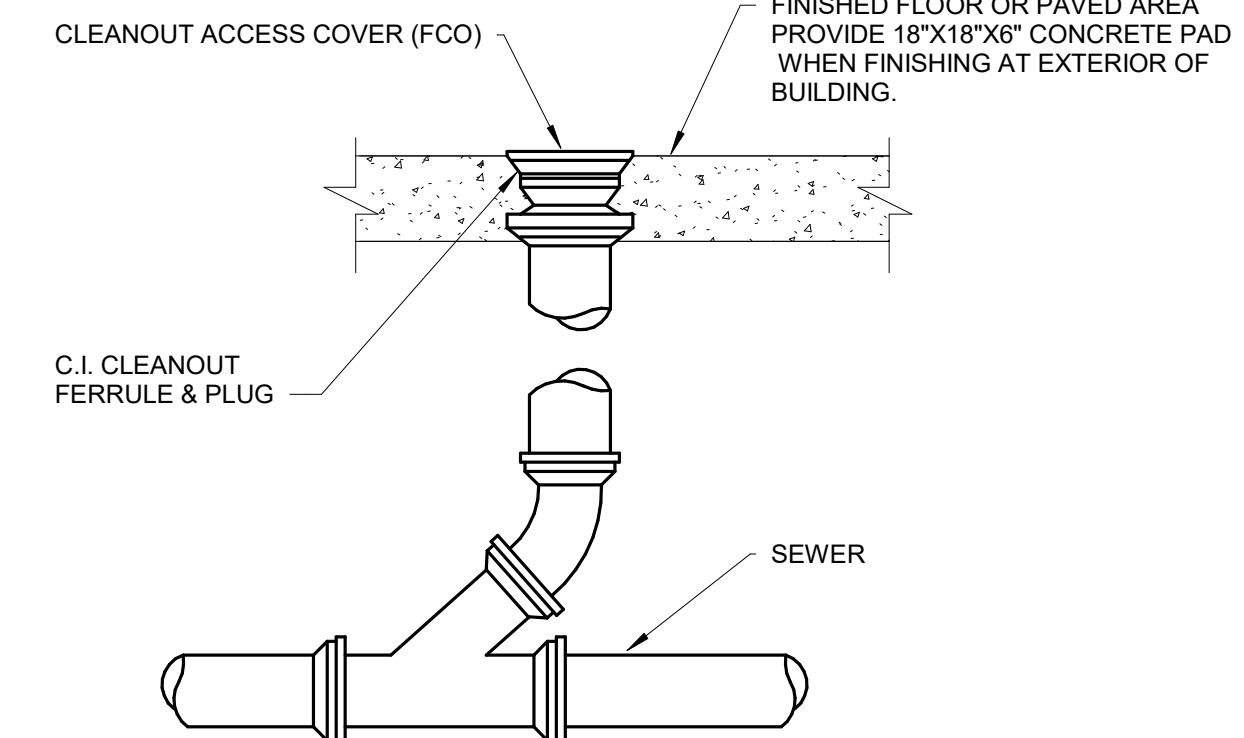


5 DISHWASHER PIPING
NOT TO SCALE

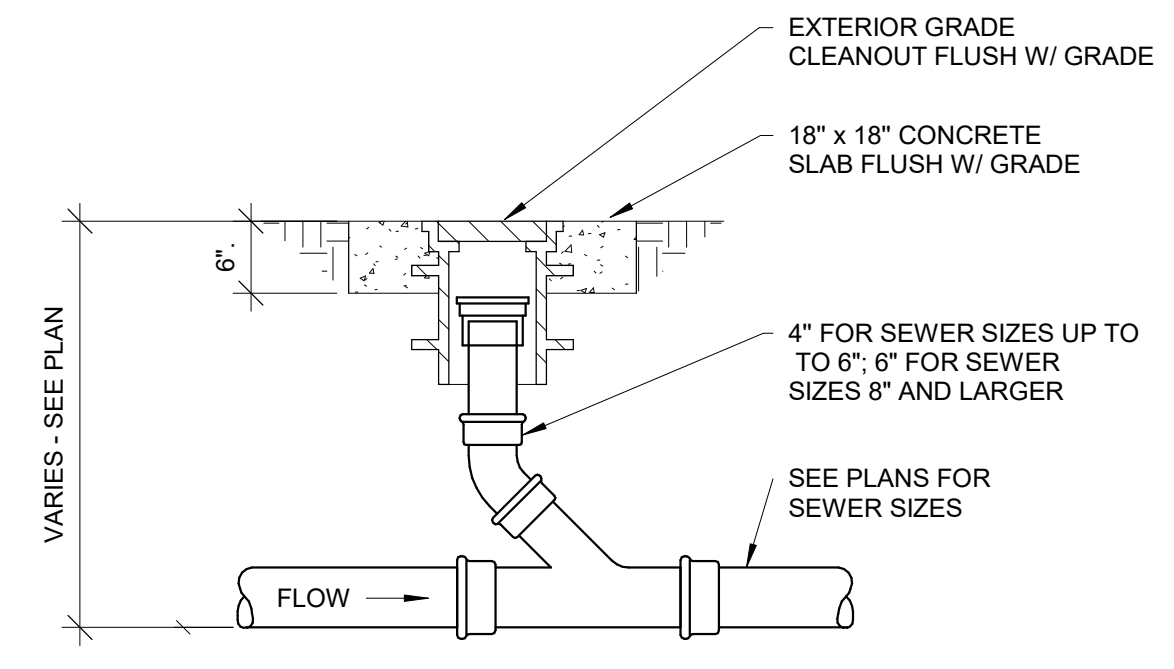


NOTE: INSTALL HANGER ON OUTSIDE OF INSULATION. DO NOT INSULATE OVER HANGER.

2 TYPICAL PIPE HANGER DETAIL
NOT TO SCALE



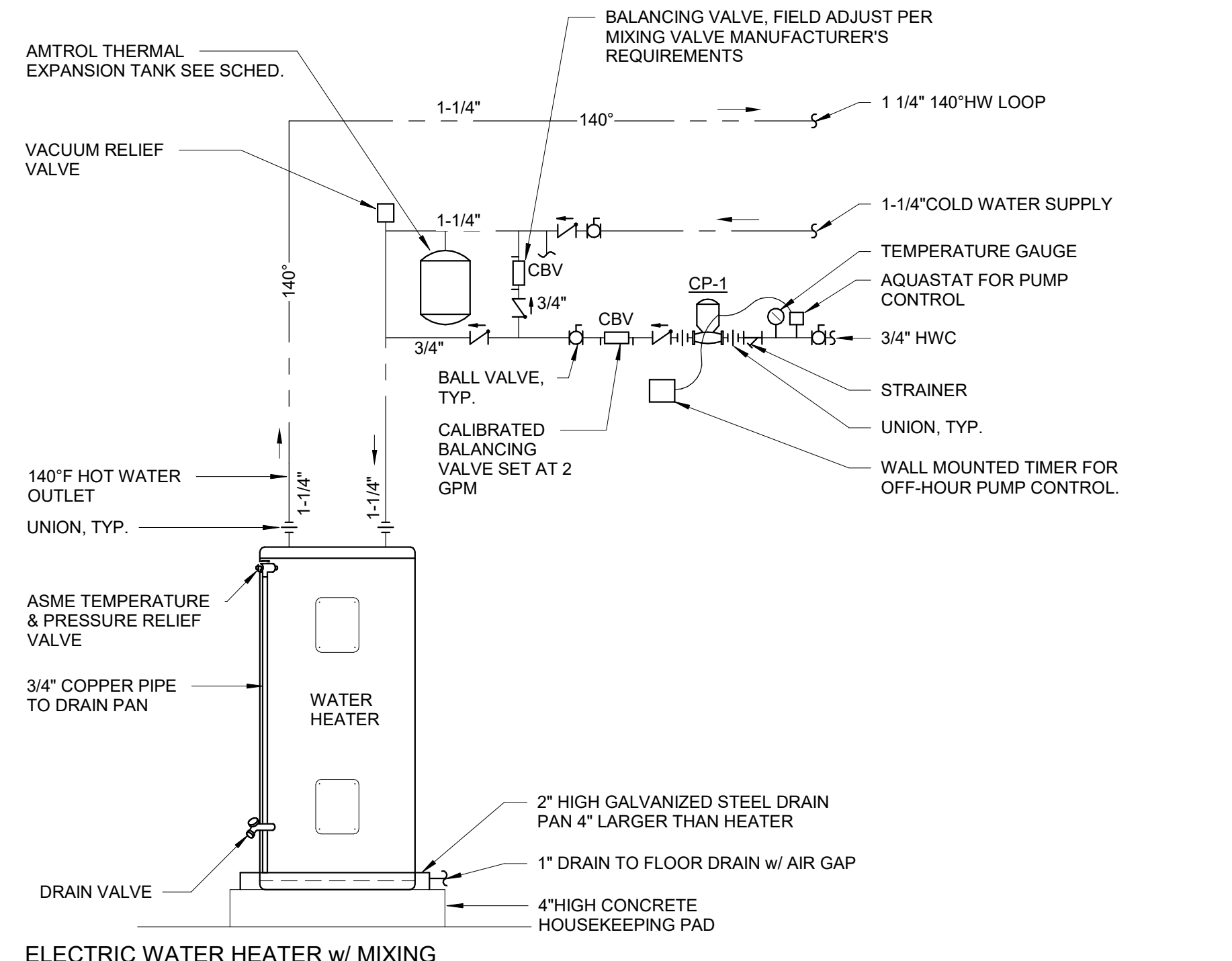
4 CLEANOUT DETAIL
NOT TO SCALE



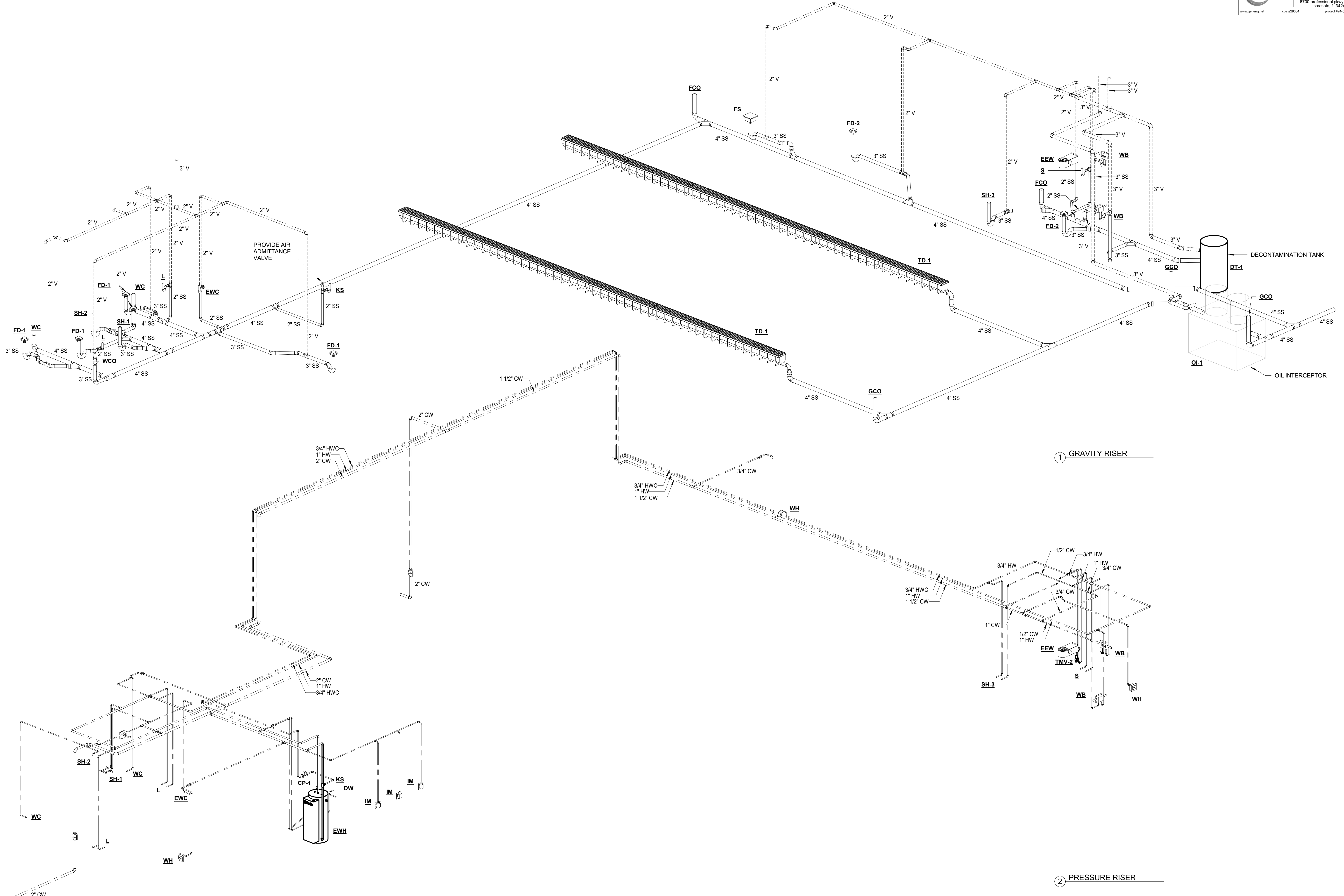
3 EXTERIOR GRADE CLEANOUT
NOT TO SCALE

PIPE HANGER SCHEDULE		
TYPE OF PIPE	SIZE OF PIPE	HANGER SPACING
STEEL THREADED PIPE	3/4" SIZE & SMALLER	10 FT. INTERVALS
	1" SIZE & LARGER	12 FT. INTERVALS
COPPER TUBE	1-1/4" SIZE & SMALLER	6 FT. INTERVALS
	1-1/2" SIZE & LARGER	10 FT. INTERVALS
PLASTIC PIPE	ALL SIZES	4' INTERVALS PROVIDE SUPPORTS AT END OF ALL BRANCHES AND AT ALL CHANGES OF DIRECTION & ELEVATION
CAST IRON PIPE	ALL SIZES	MINIMUM OF 1 HANGER PER PIPE LENGTH LOCATED WITHIN 18" OF EACH JOINT (UP TO 10' MAXIMUM), AT BRANCH CONNECTIONS

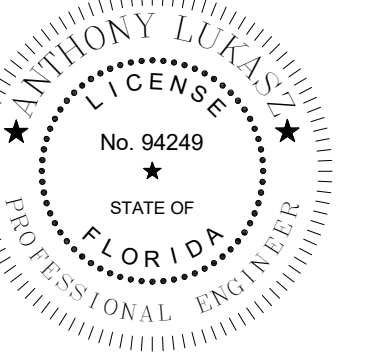
1 PIPE HANGER SCHEDULE
NOT TO SCALE



6 ELECTRIC WATER HEATER w/ MIXING VALVE DETAIL
NOT TO SCALE



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**FOUNTAIN COMMUNITY
COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

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PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE:

RISERS

SHEET NUMBER:

P400

EDITION:

PERMIT SET

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ANTHONY LUKASZ
LICENSE
No. 94249
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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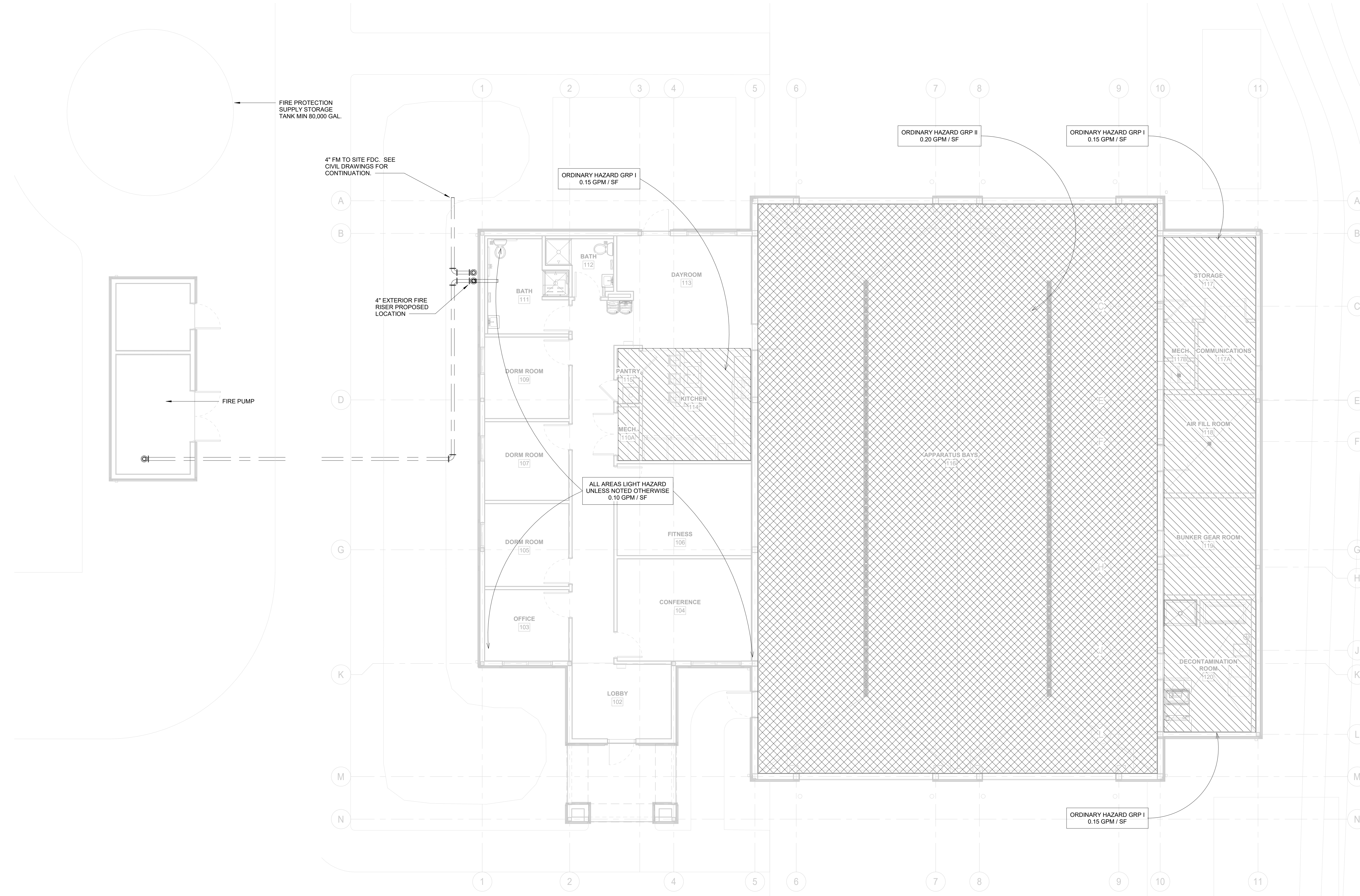
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COMPLEX FIRE STATION**
12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

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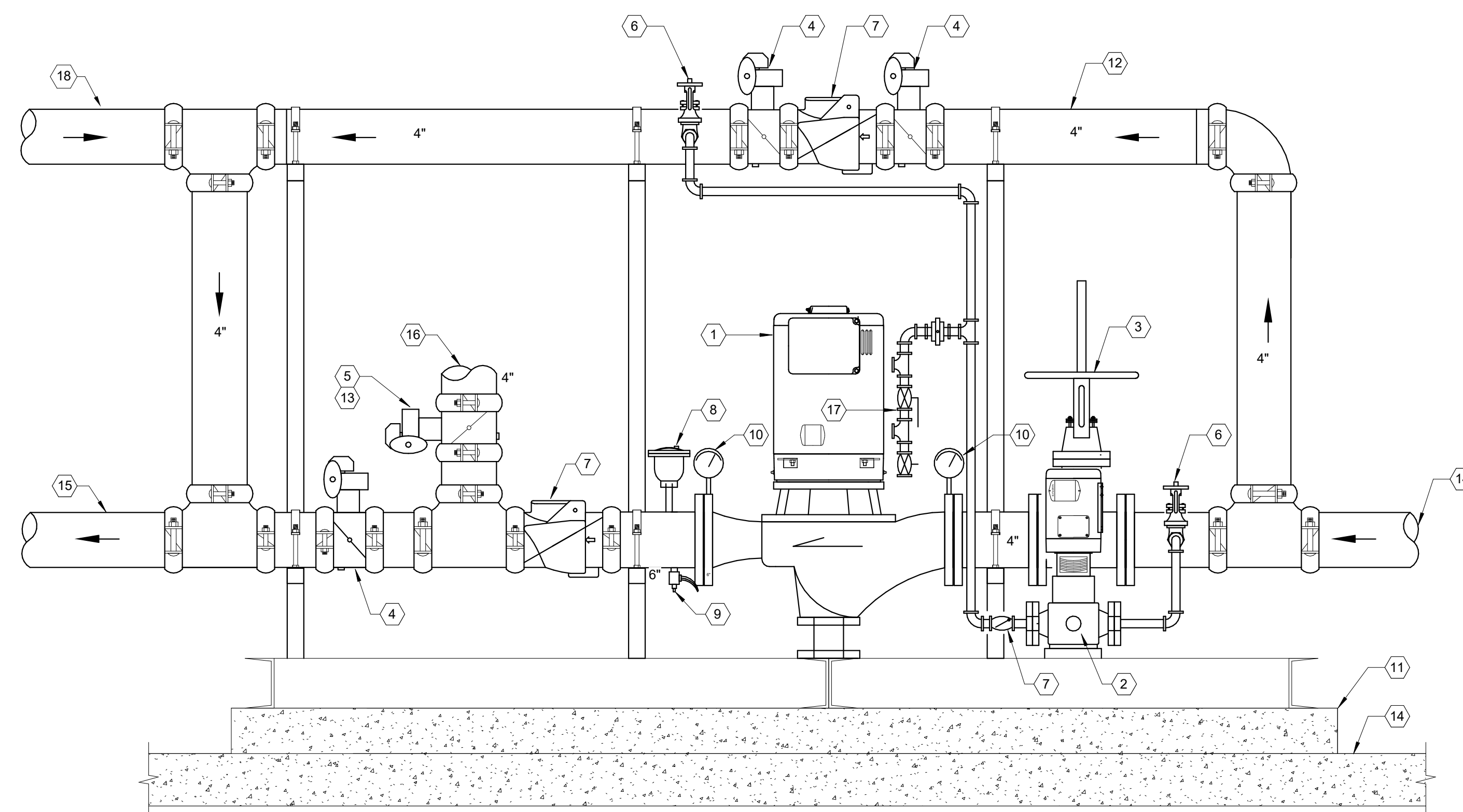
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PROJECT NO: 23.014
ISSUE DATE: 09.17.2024
DRAWING TITLE:

**GROUND LEVEL
PLAN**
SHEET NUMBER:
FP100
EDITION:
PERMIT SET



FIRE PROTECTION GROUND LEVEL
1 PLAN
3/16" = 1'-0"



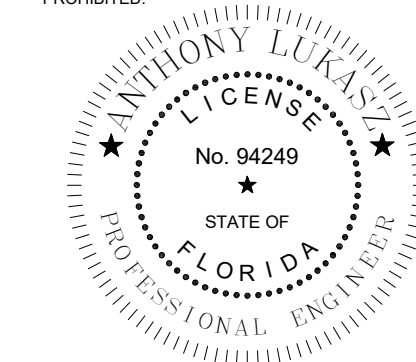
KEYED NOTES

- | | |
|---|---|
| 1 VERTICAL IN-LINE FIRE PUMP. | 12 FULL SIZE PUMP BYPASS. |
| 2 JOCKEY PUMP. | 13 4"PUMP TEST HEADER ISOLATION VALVE. |
| 3 OS & Y GATE VALVE WITH TAMPER SWITCH, NORMALLY OPEN. | 14 4"PUMP SUCTION. |
| 4 BUTTERFLY VALVE WITH TAMPER SWITCH, NORMALLY OPEN. | 15 4"PUMP DISCHARGE TO SYSTEM RISERS. |
| 5 BUTTERFLY VALVE WITH TAMPER SWITCH, NORMALLY CLOSED. | 16 4"PUMP DISCHARGE TO TEST HEADER. |
| 6 OS & Y GATE VALVE, NORMALLY OPEN. | 17 VALVE ASSEMBLY FOR TUBING CONNECTIONS TO FIRE PUMP AND JOCKEY PUMP CONTROL PANELS. CONNECT TO PANELS IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS. |
| 7 CHECK VALVE. | 18 4" SUPPLY FROM FDC. |
| 8 AIR RELEASE VALVE. PIPE DRAIN LINE TO FLOOR SINK WITH AIR GAP. | |
| 9 AUTOMATIC RELIEF VALVE. PIPE DRAIN LINE TO FLOOR SINK WITH AIR GAP. | |
| 10 PRESSURE GAUGE. | |
| 11 MIN. 4" THICK REINFORCED CONCRETE HOUSEKEEPING PAD WITH CHAMFERED CORNERS. | |

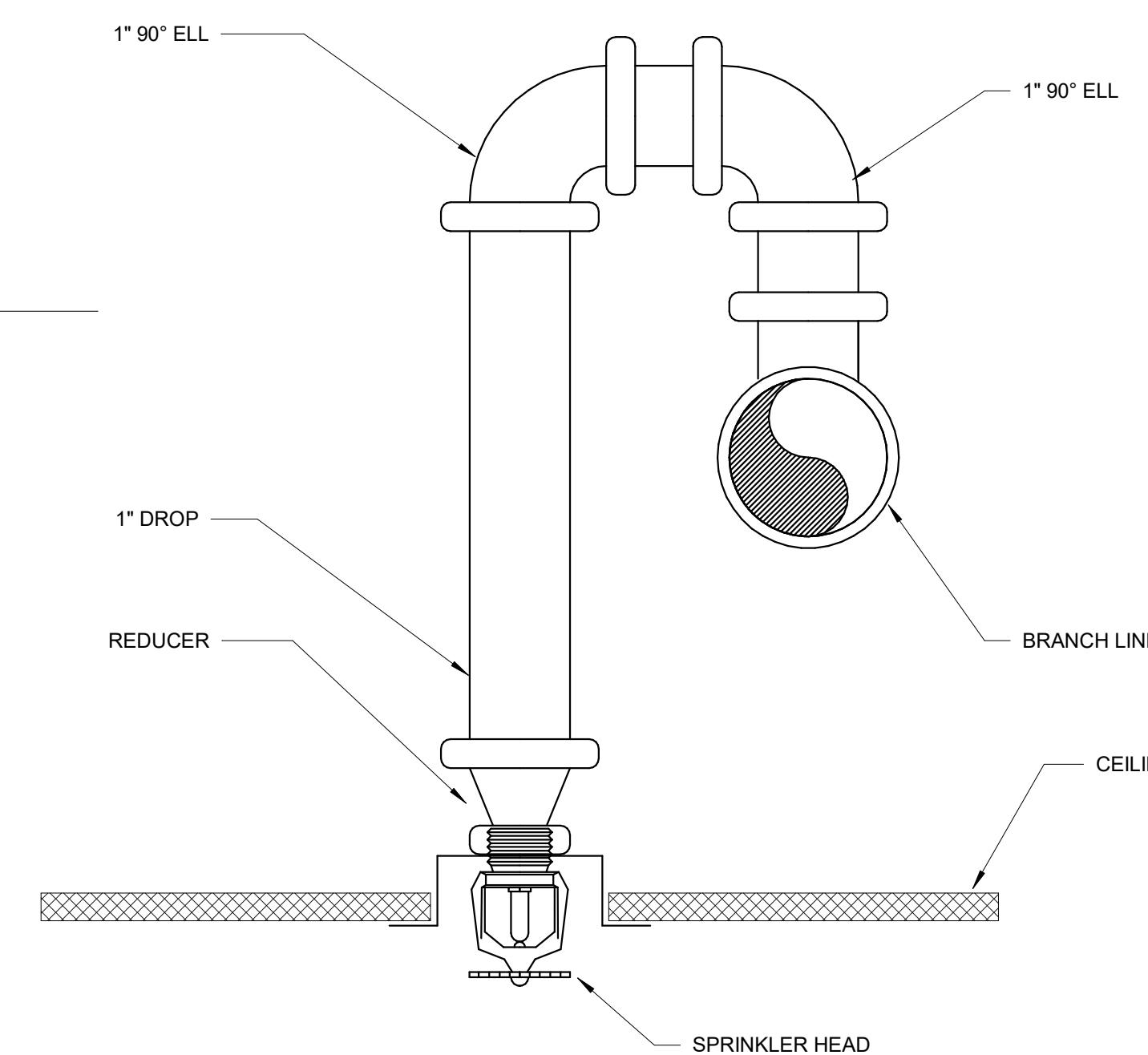
NOTE: IF PACKAGED ASSEMBLY OPTION IS SELECTED, IT SHALL BE SHIPPED WITH LOOSE FIRE PUMP AND JOCKEY PUMP CONTROL PANELS FOR REMOTE INSTALLATIONS IN PUMP ROOM. SEE FLOOR PLANS FOR LOCATIONS. MAINTAIN ALL REQUIRED PANEL CLEARANCES IN ACCORDANCE WITH THE GOVERNING ELECTRICAL CODE, NFPA AND MANUFACTURER'S REQUIREMENTS.

5 FIRE PUMP - IN-LINE - PIPING DIAGRAM
1/8" = 1'-0"

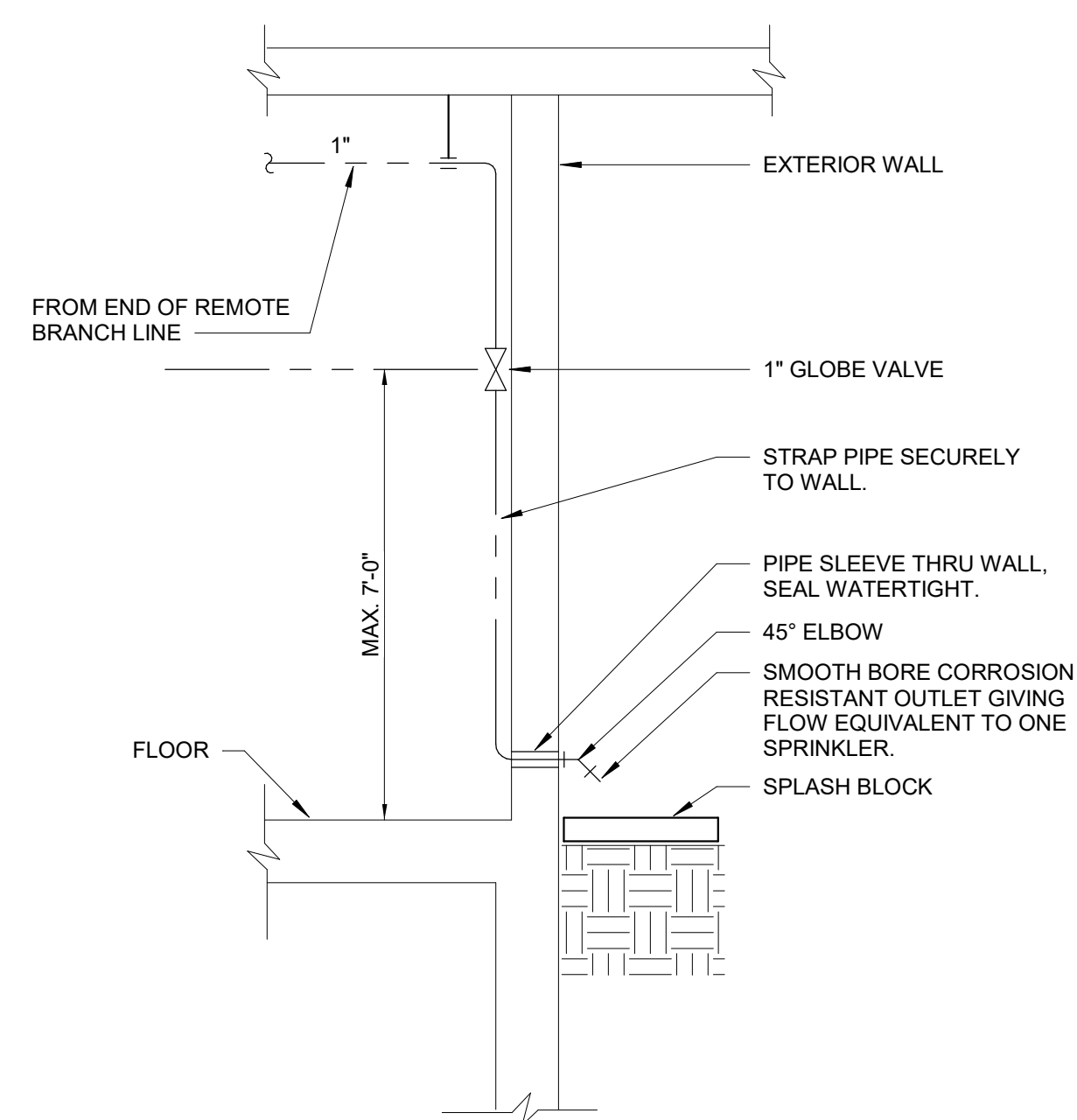
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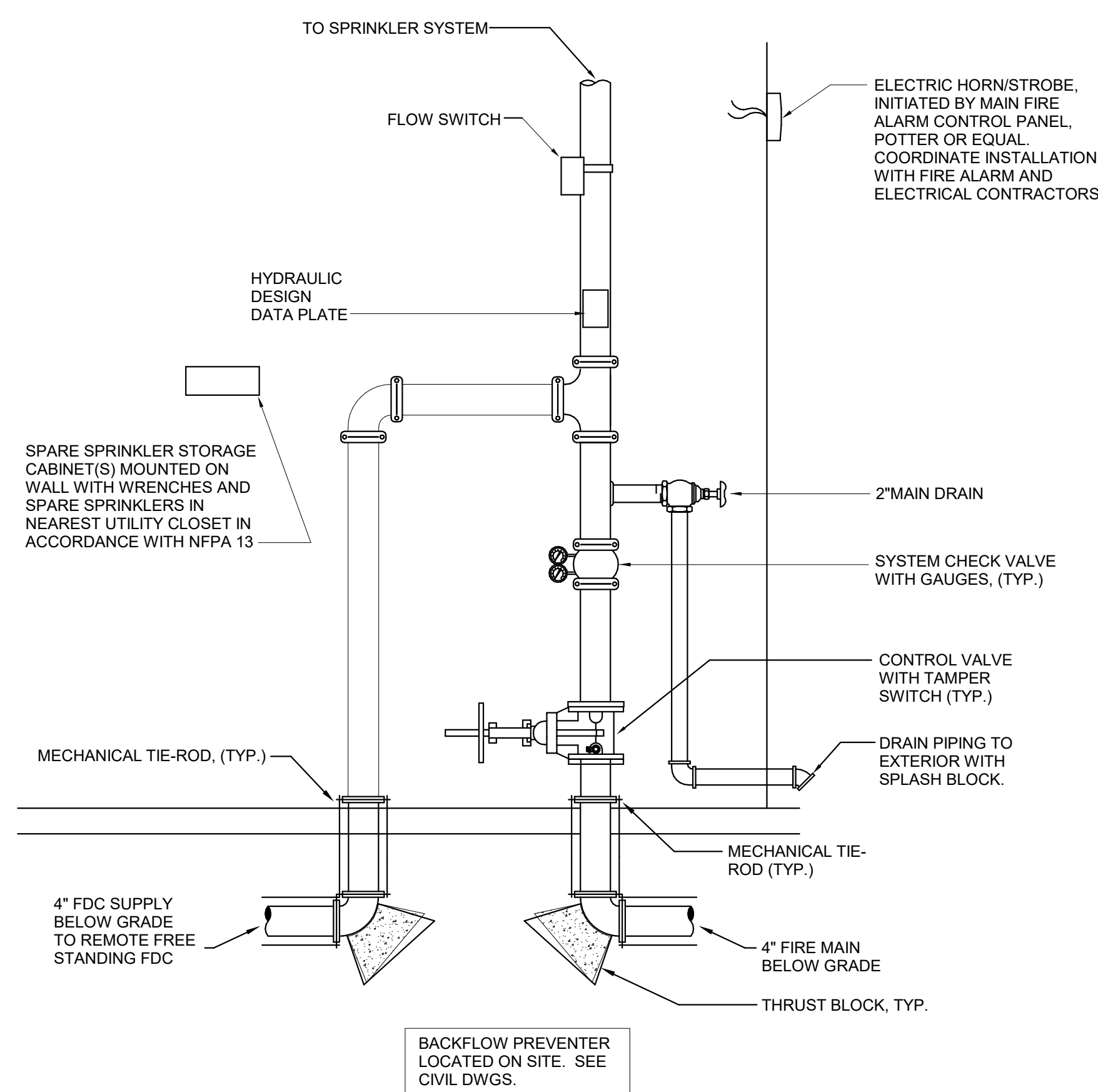
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2 TYPICAL RETURN BEND
NOT TO SCALE



4 INSPECTORS TEST AND DRAIN
NOT TO SCALE



NOTE: INTERCONNECT ALL FLOW AND TAMPER SWITCHES WITH BUILDING FIRE ALARM SYSTEM. COORDINATE EXACT CONFIGURATION AND REQUIREMENTS WITH THE FIRE ALARM CONTRACTOR PRIOR TO INSTALLATION

3 SINGLE ZONE RISER DETAIL
NOT TO SCALE

PIPE HANGER SCHEDULE		
TYPE OF PIPE	SIZE OF PIPE	HANGER SPACING
STEEL THREADED PIPE	3/4" SIZE & SMALLER 1" SIZE & LARGER	10 FT. INTERVALS 12 FT. INTERVALS
COPPER TUBE	1-1/4" SIZE & SMALLER 1-1/2" SIZE & LARGER	6 FT. INTERVALS 10 FT. INTERVALS
PLASTIC PIPE	ALL SIZES	4' INTERVALS PROVIDE SUPPORTS AT END OF ALL BRANCHES AND AT ALL CHANGES OF DIRECTION & ELEVATION
CAST IRON PIPE	ALL SIZES	MINIMUM OF 1 HANGER PER PIPE LENGTH LOCATED WITHIN 18" OF EACH JOINT (UP TO 10' MAXIMUM), AT BRANCH CONNECTIONS

1 PIPE HANGER SCHEDULE
NOT TO SCALE

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12421 HIGHWAY 20
FOUNTAIN, FLORIDA 32438

ISSUED DRAWING LOG:

Date	Description

PROJECT NO: 23.014

ISSUE DATE: 09.17.2024

DRAWING TITLE: DETAILS

SHEET NUMBER: FP101

EDITION: PERMIT SET