

LIFE SAFETY LEGEND:

--- (dashed pink)	NON RATED SMOKE PARTITION	XX	EXIT WIDTH REQUIRED
---	SMOKE BARRIER WITH 1 HR RATING	XX	EXIT WIDTH PROVIDED
---	1 HR RATED PARTITION	*	NOT A REQUIRED EXIT
---	2 HR RATED PARTITION	■	AREA OF REFUGE NFPA 101 SECTION 20.3.7.9
---	2 HR RATED FIRE AND SMOKE BARRIER	+	EXIT LIGHT AND DIRECTION TO EXIT
FEC	FIRE EXTINGUISHER CABINET	CR	CARD READER
FHC	FIRE HOSE CABINET	AO	AUTO DOOR OPENER
FP	FIRE PULL	MHO	MAGNETIC HOLD OPEN
FACP	FIRE ALARM CONTROL PANEL	→	TRAVEL DISTANCE
▨	EXISTING BUILDING AREA NOT RECEIVING ARCHITECTURAL WORK		

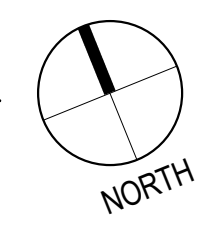
LS OCCUPANCY USE/EXIT CALCULATION

ROOM NO.	NAME	OCCUPANCY	AREA	SF Per Person	Occupant Load
101	LOBBY	Business	868 SF	150	6
102A	MEET & GREET	Business	115 SF	150	1
102B	MEET & GREET	Business	134 SF	150	1
102C	NEW CORRIDOR	Business	84 SF	150	1
133	FOOD STORAGE	Business	149 SF	150	1
134	WORK ROOM	Business	404 SF	150	3
145	GARAGE	Business	1331 SF	150	9
147	CAT ADOPTION	Business	1112 SF	150	8
148	CORRIDOR	Business	252 SF	150	2
149	DOG ADOPTION	Business	1112 SF	150	8
150	ELECTRIC RM.	Business	55 SF	150	1
151	TREATMENT / LAB	Business	499 SF	150	4
153	STORAGE	Business	64 SF	150	1
155	RISER RM	Accessory Storage / Mechanical	38 SF	300	1
Grand total: 14	TOTAL OCCUPANT LOAD PER IBC CHAPTER 10				47

LS TRAVEL DISTANCE

EXIT ROUTE	DISTANCE
EGRESS PATH 1	64' - 0 7/16"
EGRESS PATH 2	68' - 1 3/8"
EGRESS PATH 3	117' - 0 10 1/128"
EGRESS PATH 4	73' - 2 5/128"
EGRESS PATH 5	67' - 0 95/256"
EGRESS PATH 6	61' - 7 31/256"

1 LIFE SAFETY PLAN
1/8" = 1'-0"



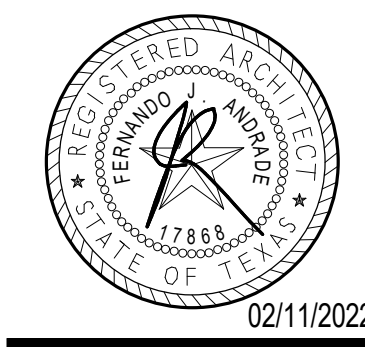
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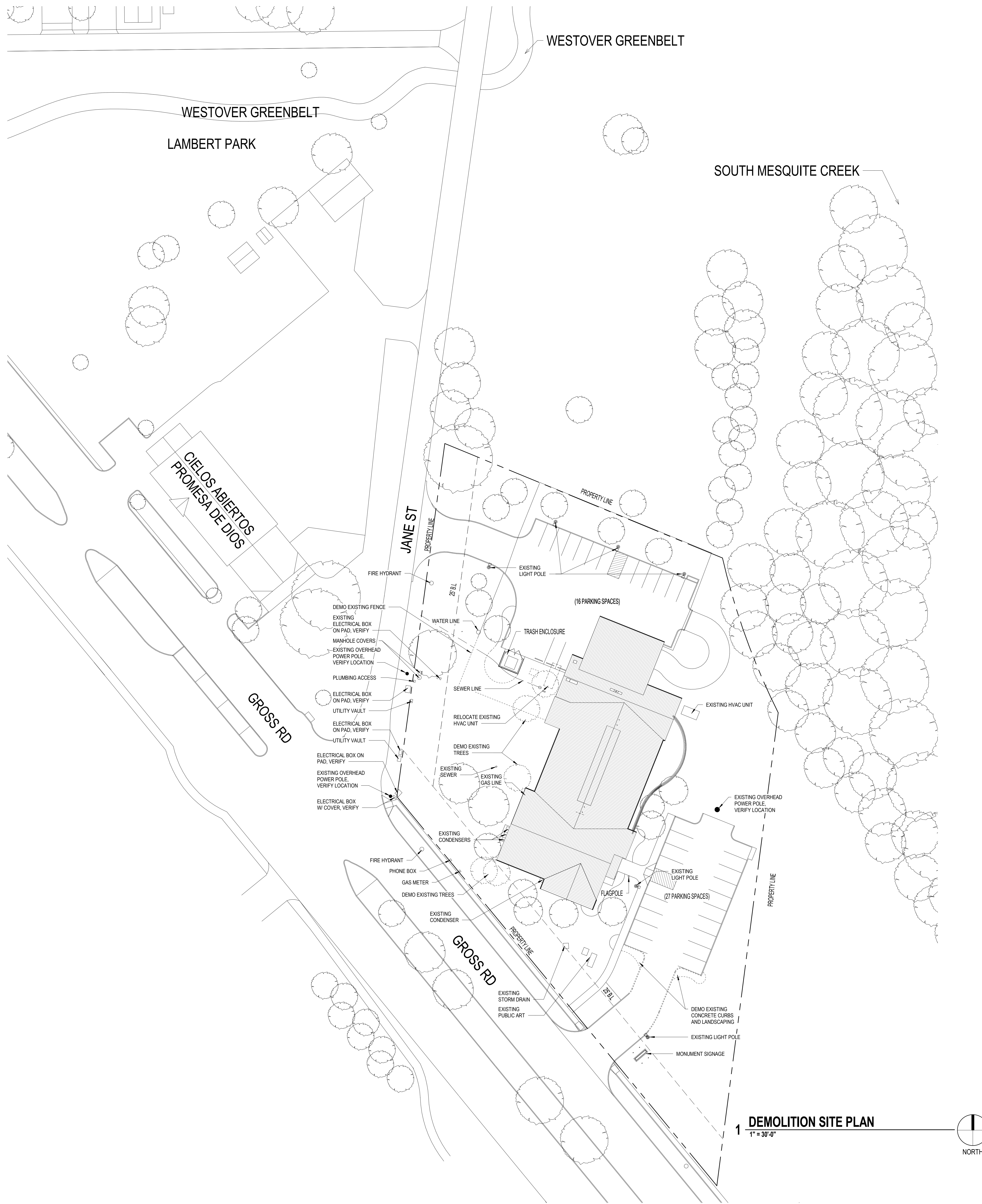


Revisions:

REV.	DATE	TITLE

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2942
Drawn By:
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RG
Sheet Title:
LIFE SAFETY
Drawing No.

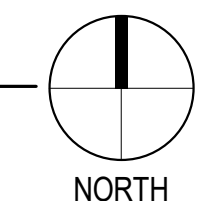
LS1.00



GENERAL DEMOLITION NOTES

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 - 1. SEQUENCE ACTIVITIES IN THE FOLLOWING ORDER
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 - 1. SCHEDULE WORK TO COINCIDE WITH NEW CONSTRUCTION
 - 2. PERFORM WORK BETWEEN HOURS OF [X] AND [X]
 - 03- PROJECT CONDITIONS
 - 1. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT AND OCCUPIED BUILDING AREAS
 - 2. CEASE OPERATIONS IMMEDIATELY WHEN STRUCTURE APPEARS TO BE IN DANGER AND NOTIFY ARCHITECT/ENGINEER/OWNER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
 - 04- PREPARATION
 - 1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL DEMOLITION WORK WITH EXISTING CONSTRUCTION PRIOR TO EXECUTION OF DEMOLITION.
 - 2. CONFORM TO APPLICABLE BUILDING CODE FOR DEMOLITION WORK, DUST CONTROL, PRODUCTS REQUIRING ELECTRICAL DISCONNECTION AND RE-CONNECTION.
 - 3. CONFORM TO APPLICABLE BUILDING CODE FOR PROCEDURES WHEN HAZARDOUS OR CONTAMINATED MATERIALS ARE DISCOVERED.
 - 4. ERECT AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES, INCLUDING WARNING SIGNS AND LIGHTS, AND SIMILAR MEASURES, FOR PROTECTION OF THE PUBLIC, OWNER, CONTRACTOR'S EMPLOYEES AND EXISTING IMPROVEMENTS TO REMAIN.
 - 5. PROTECT EXISTING MATERIALS AND EXISTING CONDITIONS NOT INDICATED TO BE DEMOLISHED.
 - 6. PREVENT MOVEMENT OF EXISTING STRUCTURE, PROVIDE TEMPORARY BRACING AND SHORING REQUIRED TO ENSURE SAFETY OF EXISTING STRUCTURE.
 - 7. MARK LOCATION AND TERMINATION OF UTILITIES.
 - 8. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
 - 9. COORDINATE WITH OWNER, DEMOLITION OF EXISTING UTILITIES THAT WILL AFFECT OWNER'S OPERATIONS ON SITE.
 - 10. ERECT AND MAINTAIN WEATHERPROOF ENCLOSURES FOR EXTERIOR OPENINGS.
 - 11. ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, ODORS, AND NOISE TO PERMIT CONTINUED OWNER OCCUPANCY.
 - 12. PROVIDE APPROPRIATE TEMPORARY SIGNAGE INCLUDING SIGNAGE FOR EXIT OR BUILDING EGRESS.
 - 05- DEMOLITION REQUIREMENTS
 - 1. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFESAFETY SYSTEMS WITHOUT 3 DAYS PRIOR WRITTEN NOTICE TO OWNER.
 - 2. DEMOLISH IN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT.
 - 3. REPAIR DAMAGE TO ANY EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT THAT MAY OCCUR AS A RESULT OF DEMOLITION.
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 - 7. OPENINGS WHICH ARE NOT COMPLETED AT THE END OF EACH DAY WILL NEED TO BE SECURED FOR THE EVENING AND OR WEEKENDS AS REQUIRED BY OWNER OR MANAGEMENT AND THEIR SECURITY COMPONENT.
 - 8. OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS WHEN DEMOLITION EQUIPMENT WILL TRANSVERSE, INFRINGE UPON OR LIMIT ACCESS TO THEIR PROPERTY.
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 - 06- DEMOLITION
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 - 3. DEMOLISH IN ORDERLY AND CAREFUL MANNER. **PROTECT EXISTING IMPROVEMENTS.**
 - 4. REMOVE DEMOLISHED MATERIALS FROM SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT BURN OR BURY MATERIALS ON SITE.
 - 5. REMOVE MATERIALS AS WORK PROGRESSES. UPON COMPLETION OF WORK, LEAVE AREAS IN CLEAN CONDITION.
 - 6. CONTRACTOR SHALL PREPARE ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES, AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - 7. WHERE DEMOLITION OF PORTIONS OF EXISTING MONUMENTAL SURFACES OR FINISHES IS CALLED FOR, CONTRACTOR SHALL ESTABLISH BEGINNING POINT OF SUCH REMOVAL AT NEAREST LOGICAL CONSTRUCTION JOINT, MATERIAL CHANGE, OR CORNER.
 - 8. WHERE SUPPLEMENTAL ITEMS, SUCH AS MECH/EQUIPMENT PADS, WALL ANCHORS HANGING APPARATUS, ETC. ARE NOT SPECIFICALLY CALLED OUT TO BE REMOVED, CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL.
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 - 10. REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING ASSEMBLY IN ITS ENTIRETY TO BOTTOM OF STRUCTURE IN AREAS/ROOMS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - 11. WHERE EXISTING UTILITIES ARE TO BE REMOVED, CAP BELOW FLOOR LEVEL, WITHIN WALLS, OR ABOVE CEILINGS. COORDINATE WITH MEP DOCUMENTS.
 - 12. REMOVE ALL EXISTING HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO DUCTWORK, DIFFUSERS, DAMPERS, GRILLES, AND HANGARS IN AREAS/ROOMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - 13. REMOVE ALL EXISTING LIGHT FIXTURES, INCLUDING BUT NOT LIMITED TO FIXTURES, CONDUIT, WIRING, J-BOXES, AND CONTROLS IN AREAS/ROOMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - 14. REMOVE ALL INTERIOR PARTITIONS INCLUDING, BUT NOT LIMITED TO GYPSUM BOARD, METAL STUDS, BASE, SIGNAGE, WIRING, OUTLETS, AND CONTROLS IN AREAS/ROOMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 - 15. REMOVE ALL EXISTING RESTROOM ACCESSORIES AND SAVE FOR OWNER'S USE.
 - 16. REMOVE ALL EXISTING PLUMBING FIXTURES AND SAVE FOR OWNER'S USE.
 - 17. REFER TO MEP DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
 - 07- SALVAGE REQUIREMENTS
 - 1. COORDINATE WITH OWNER TO IDENTIFY BUILDING COMPONENTS AND EQUIPMENT REQUIRED TO BE REMOVED AND DELIVERED TO OWNER.
 - 2. TAG COMPONENTS AND EQUIPMENT OWNER DESIGNATES FOR SALVAGE.
 - 3. PROTECT DESIGNATED SALVAGE ITEMS FROM DEMOLITION OPERATIONS UNTIL ITEMS CAN BE REMOVED.
 - 4. CAREFULLY REMOVE BUILDING COMPONENTS AND EQUIPMENT INDICATED TO BE SALVAGED.
 - 5. DISASSEMBLE AS REQUIRED TO PERMIT REMOVAL FROM BUILDINGS.
 - 6. PACKAGE SMALL AND LOOSE PARTS TO AVOID LOSS.
 - 7. MARK EQUIPMENT AND PACKAGE PARTS TO PERMIT IDENTIFICATION AND CONSOLIDATION OF COMPONENTS OF EACH SALVAGED ITEM.
 - 8. PREPARE ASSEMBLY INSTRUCTIONS CONSISTENT WITH DISASSEMBLED PARTS. PACKAGE ASSEMBLY INSTRUCTIONS IN PROTECTIVE ENVELOPE AND SECURELY ATTACH TO EACH DISASSEMBLED SALVAGED ITEM.
 - 9. DELIVER SALVAGED ITEMS TO OWNER. OBTAIN SIGNED RECEIPT FROM OWNER.
 - 10. OWNER TO REMOVE ALL FURNITURE, FIXTURES, AND EQUIPMENT PRIOR TO START OF DEMOLITION.

1 DEMOLITION SITE PLAN
1" = 30'-0"



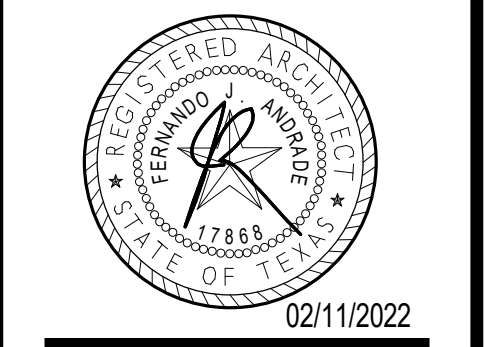
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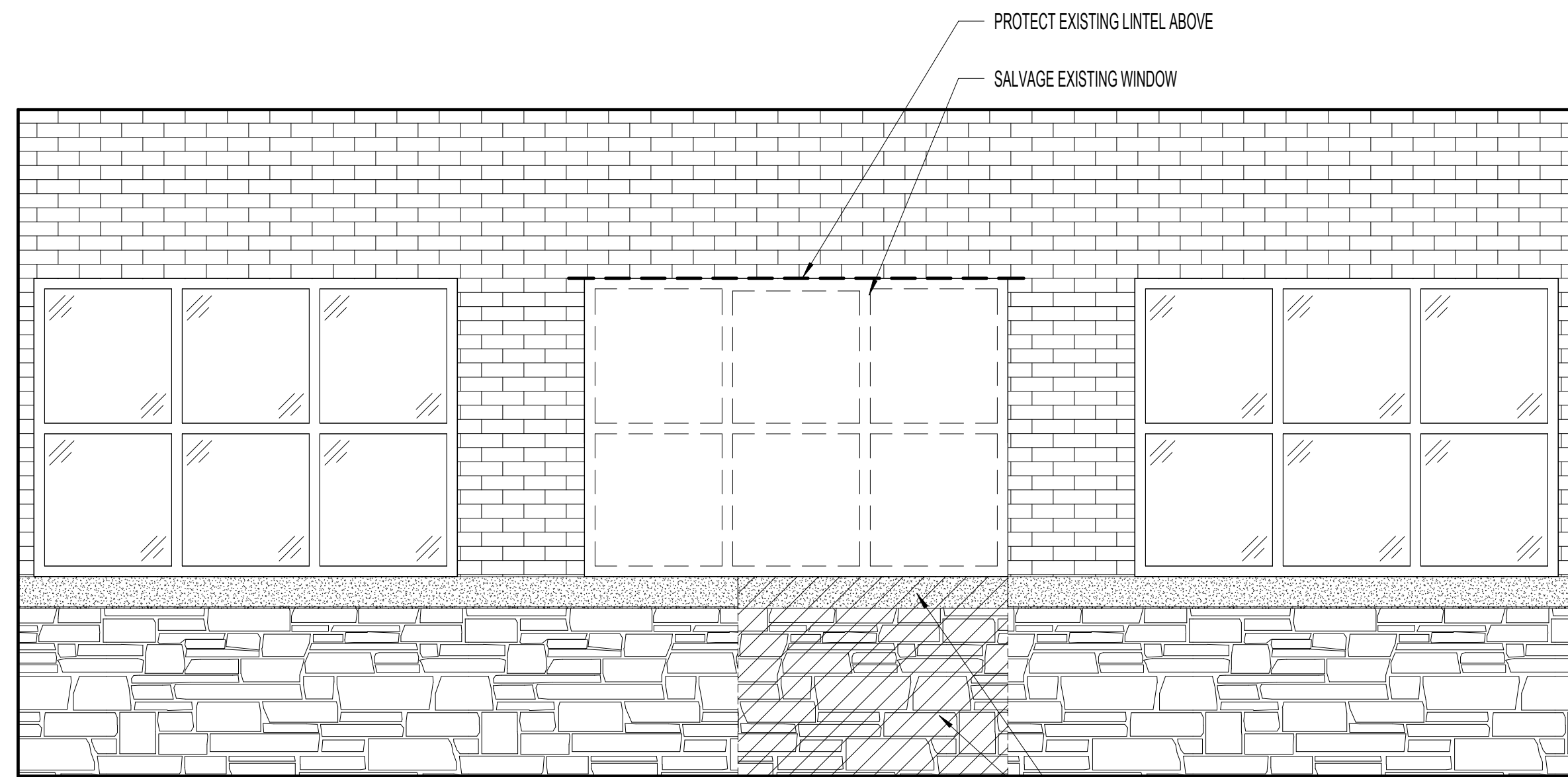
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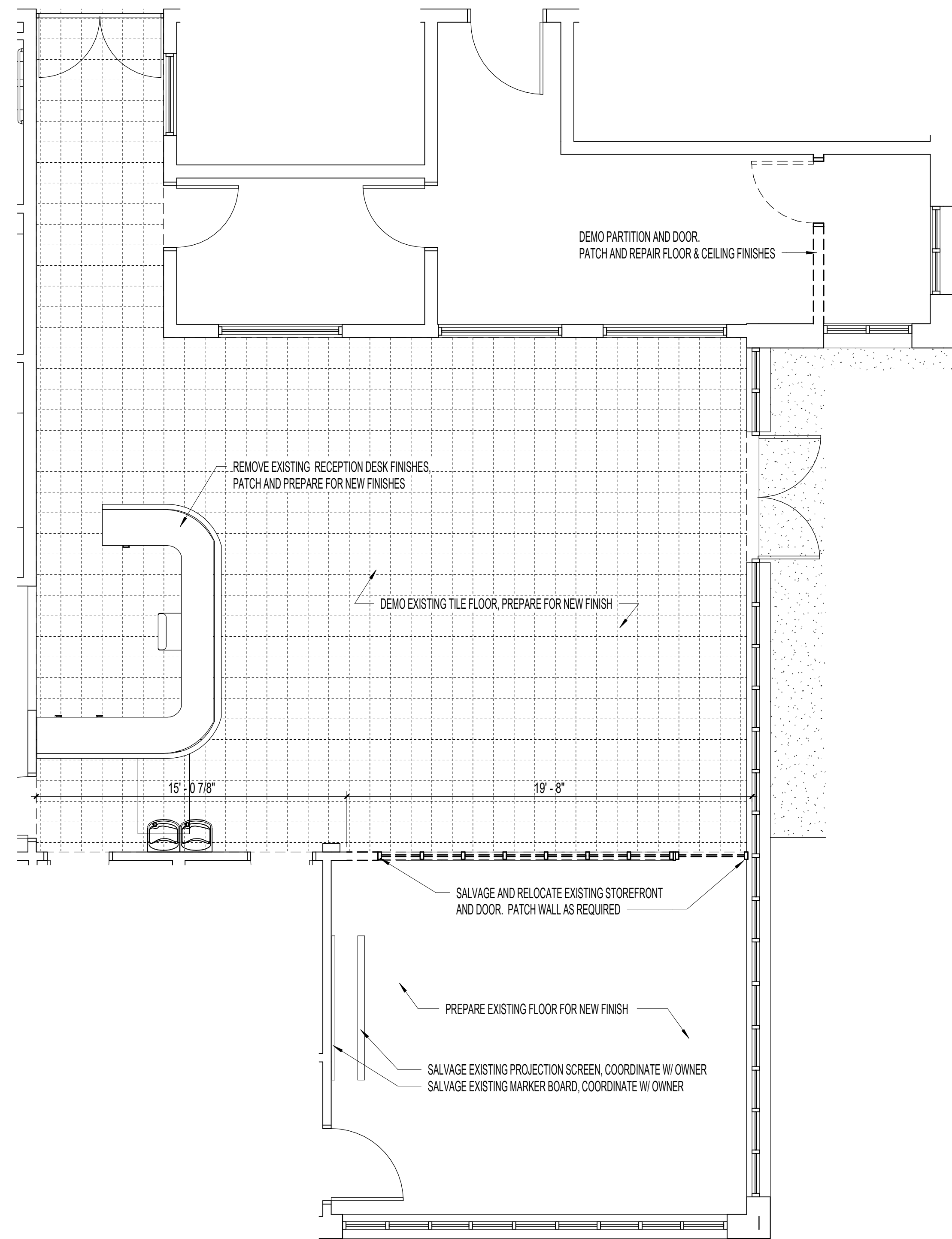
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DEMOLITION SITE PLAN

Drawing No.

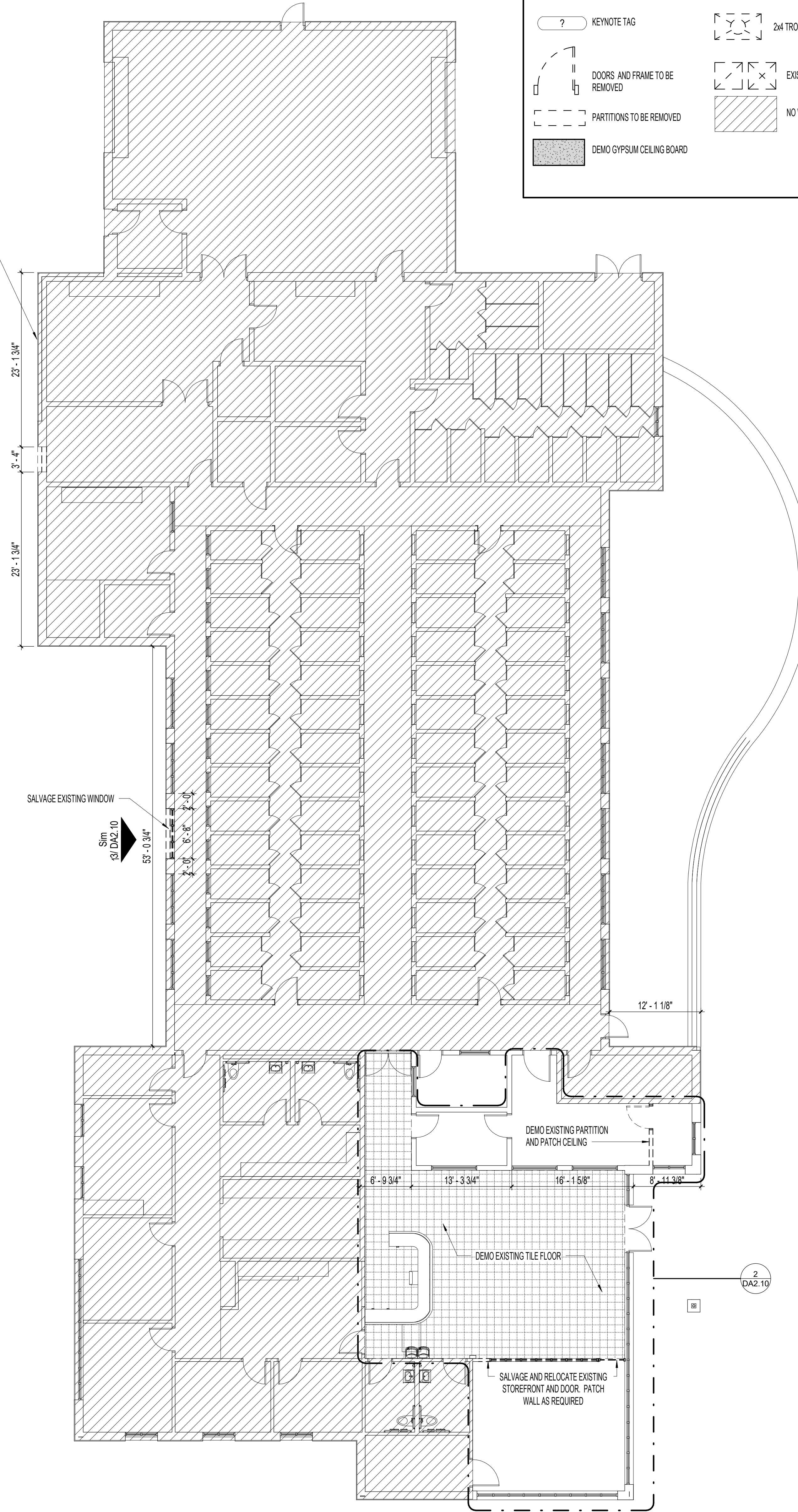
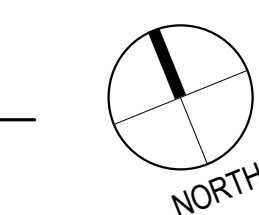
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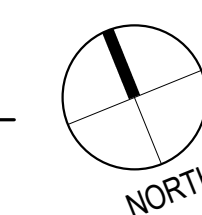
3 EXISTING WALL OPENING DEMO ELEVATION
1/2" = 1'-0"



2 ENLARGED RECEPTION LOBBY DEMO PLAN
1/4" = 1'-0"



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



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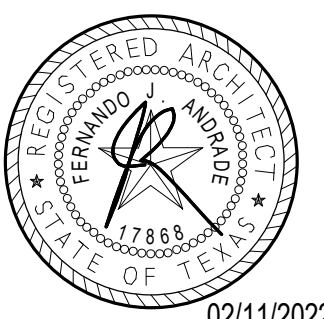
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DEMOLITION FLOOR PLANS
Drawing No.

DA2.10

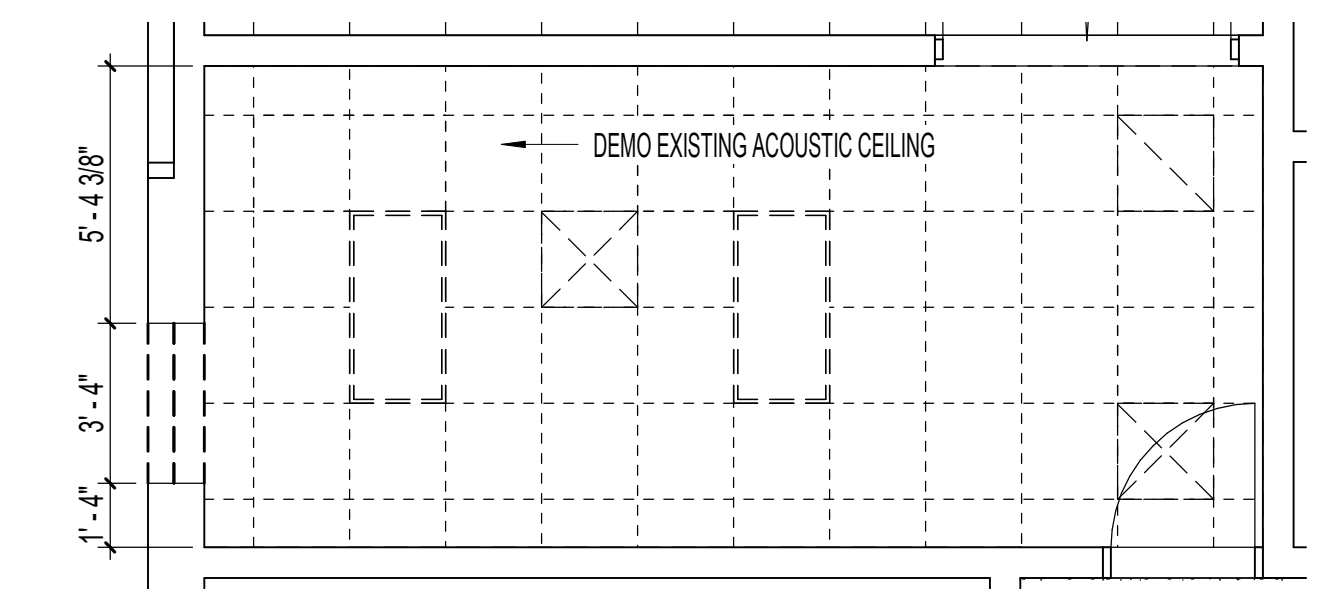
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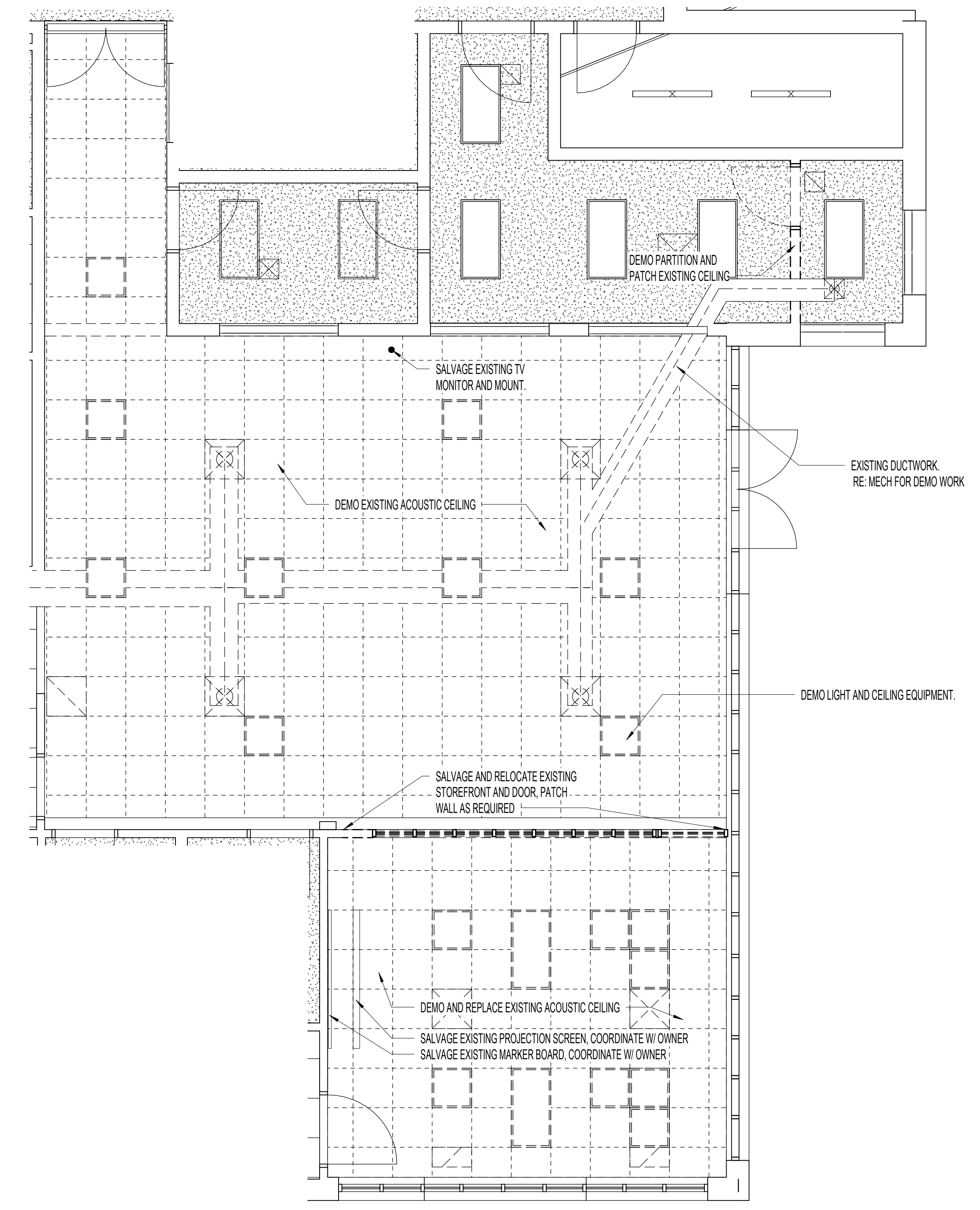
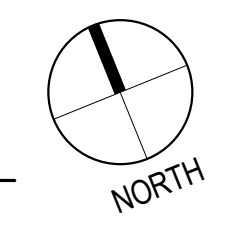
DEMOLITION SYMBOL LEGEND

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	DOORS AND FRAME TO BE REMOVED		EXISTING DIFFUSER TO BE REMOVED
	PARTITIONS TO BE REMOVED		NO WORK THIS PHASE
	DEMO GYPSUM CEILING BOARD		

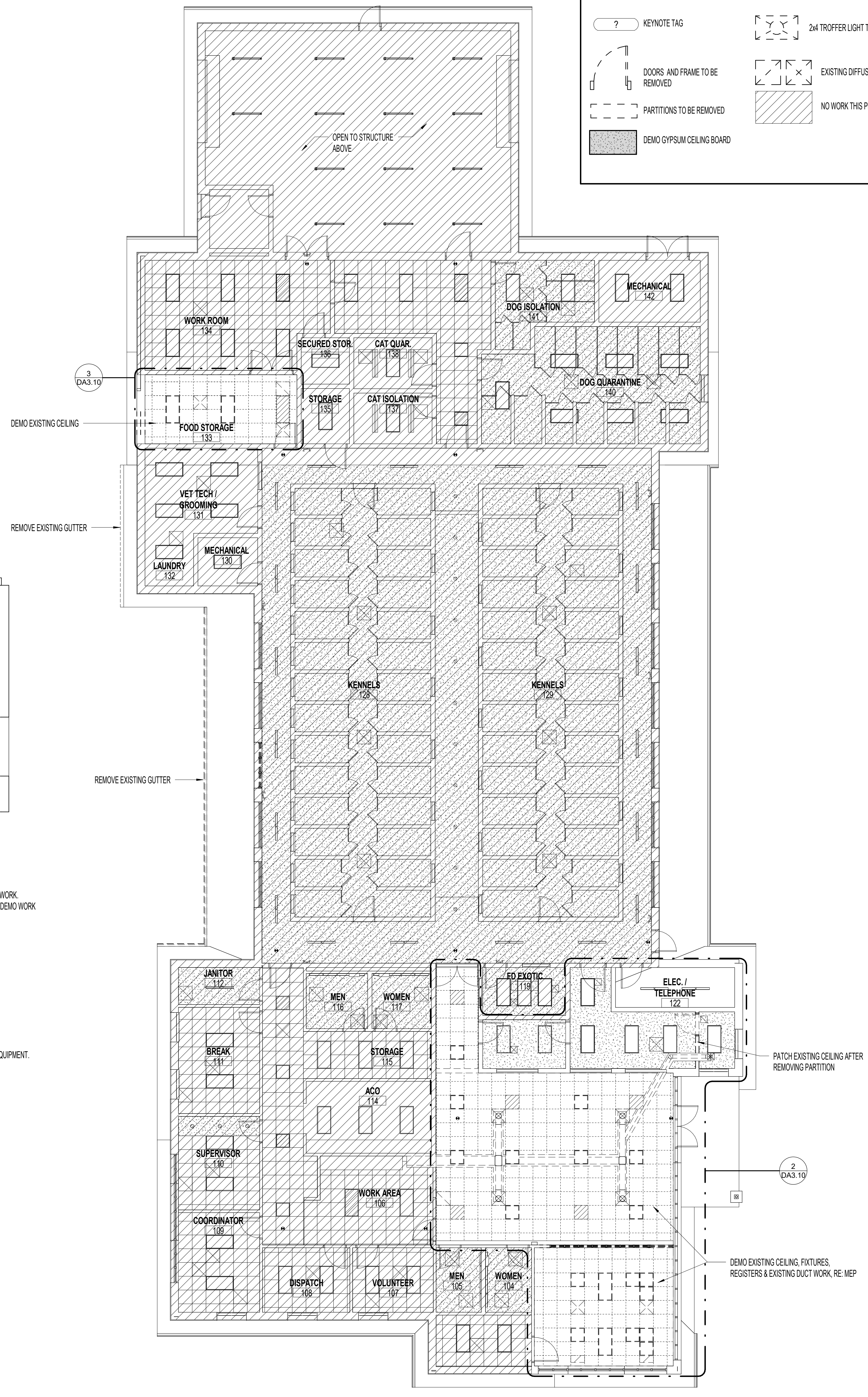
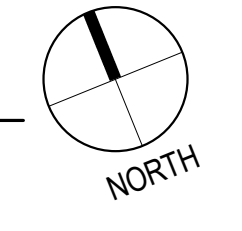
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 4. ERECT AND MAINTAIN TEMPORARY BARRIERS AND SECURITY DEVICES, INCLUDING WARNING SIGNS AND LIGHTS, AND SIMILAR MEASURES, FOR PROTECTION OF THE PUBLIC, OWNER, CONTRACTOR'S EMPLOYEES AND EXISTING IMPROVEMENTS TO REMAIN.
 5. PROTECT EXISTING MATERIALS AND EXISTING CONDITIONS NOT INDICATED TO BE DEMOLISHED.
 6. PREVENT MOVEMENT OF EXISTING STRUCTURE; PROVIDE TEMPORARY BRACING AND SHORING REQUIRED TO ENSURE SAFETY OF EXISTING STRUCTURE.
 7. MARK LOCATION AND TERMINATION OF UTILITIES.
 8. NOTIFY AFFECTED UTILITY COMPANIES BEFORE STARTING WORK AND COMPLY WITH THEIR REQUIREMENTS.
 9. COORDINATE WITH OWNER, DEMOLITION OF EXISTING UTILITIES THAT WILL AFFECT OWNER'S OPERATIONS ON SITE.
 10. ERECT AND MAINTAIN WEATHERPROOF ENCLOSURES FOR EXTERIOR OPENINGS.
 11. ERECT AND MAINTAIN TEMPORARY PARTITIONS TO PREVENT SPREAD OF DUST, ODORS, AND NOISE TO PERMIT CONTINUED OWNER OCCUPANCY.
 12. PROVIDE APPROPRIATE TEMPORARY SIGNAGE INCLUDING SIGNAGE FOR EXIT OR BUILDING EGRESS.
- 05- DEMOLITION REQUIREMENTS**
 1. DO NOT DISABLE OR DISRUPT BUILDING FIRE OR LIFESAFETY SYSTEMS WITHOUT 3 DAYS PRIOR WRITTEN NOTICE TO OWNER.
 2. DEMOLISH IN ORDERLY AND CAREFUL MANNER. PROTECT EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT.
 3. REPAIR DAMAGE TO ANY EXISTING CONSTRUCTION, FINISHES, AND EQUIPMENT THAT MAY OCCUR AS A RESULT OF DEMOLITION.
 4. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT AND OCCUPIED BUILDING AREAS.
 5. CEASE OPERATIONS IMMEDIATELY WHEN ADJACENT STRUCTURES APPEAR TO BE IN DANGER. NOTIFY ARCHITECT/ENGINEER/OWNER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
 6. CONDUCT OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC OR PRIVATE ACCESSES. MAINTAIN PROTECTED EGRESS AND ACCESS FROM WITHIN EXISTING BUILDING AT ALL TIMES.
 7. OPENINGS WHICH ARE NOT COMPLETED AT THE END OF EACH DAY WILL NEED TO BE SECURED FOR THE EVENING AND OR WEEKENDS AS REQUIRED BY OWNER OR MANAGEMENT AND THEIR SECURITY COMPONENT.
 8. OBTAIN WRITTEN PERMISSION FROM ADJACENT PROPERTY OWNERS WHEN DEMOLITION EQUIPMENT WILL TRANSVERSE, INFRINGE UPON OR LIMIT ACCESS TO THEIR PROPERTY.
 9. SPRINKLE WORK WITH WATER TO MINIMIZE DUST. PROVIDE HOSES AND WATER CONNECTIONS REQUIRED FOR THIS PURPOSE.
- 06- DEMOLITION**
 1. DISCONNECT, CAP, AND IDENTIFY DESIGNATED UTILITIES WITHIN DEMOLITION AREAS.
 2. REMOVE MATERIALS TO BE RE-INSTALLED OR RETAINED IN A MANNER TO PREVENT DAMAGE. STORE AND PROTECT IN ACCORDANCE WITH REQUIREMENTS OF OWNER.
 3. DEMOLISH IN ORDERLY AND CAREFUL MANNER. **PROTECT EXISTING IMPROVEMENTS.**
 4. REMOVE DEMOLISHED MATERIALS FROM SITE EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE. DO NOT BURN OR BURY MATERIALS ON SITE.
 5. REMOVE MATERIALS AS WORK PROGRESSES. UPON COMPLETION OF WORK, LEAVE AREAS IN CLEAN CONDITION.
 6. CONTRACTOR SHALL PREPARE ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISHES, AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 7. WHERE DEMOLITION OF PORTIONS OF EXISTING MONUMENTAL SURFACES OR FINISHES IS CALLED FOR, CONTRACTOR SHALL ESTABLISH BEGINNING POINT OF SUCH REMOVAL AT NEAREST LOGICAL CONSTRUCTION JOINT, MATERIAL CHANGE, OR CORNER.
 8. WHERE SUPPLEMENTAL ITEMS, SUCH AS MECH/EQUIPMENT PADS, WALL ANCHORS HANGING APPARATUS, ETC. ARE NOT SPECIFICALLY CALLED OUT TO BE REMOVED, CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR REMOVAL.
 9. REFER TO FLOOR PLANS FOR DIMENSIONAL EXTENTS OF FINISH ITEM MATERIAL REMOVAL OR PARTIAL REMOVAL.
 10. REMOVE EXISTING SUSPENDED ACOUSTICAL CEILING ASSEMBLY IN ITS ENTIRETY TO BOTTOM OF STRUCTURE IN AREAS/ROOMS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 11. WHERE EXISTING UTILITIES ARE TO BE REMOVED, CAP BELOW FLOOR LEVEL, WITHIN WALLS, OR ABOVE CEILINGS. COORDINATE WITH MEP DOCUMENTS.
 12. REMOVE ALL EXISTING HVAC EQUIPMENT, INCLUDING BUT NOT LIMITED TO DUCTWORK, DIFFUSERS, DAMPERS, GRILLES, AND HANGARS IN AREAS/ROOMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
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 14. REMOVE ALL INTERIOR PARTITIONS INCLUDING, BUT NOT LIMITED TO GYPSUM BOARD, METAL STUDS, BASE, SIGNAGE, WIRING, OUTLETS, AND CONTROLS IN AREAS/ROOMS AS INDICATED IN THE CONSTRUCTION DOCUMENTS.
 15. REMOVE ALL EXISTING RESTROOM ACCESSORIES AND SAVE FOR OWNER'S USE.
 16. REMOVE ALL EXISTING PLUMBING FIXTURES AND SAVE FOR OWNER'S USE.
 17. REFER TO MEP DOCUMENTS FOR ADDITIONAL DEMOLITION REQUIREMENTS.
- 06- SALVAGE REQUIREMENTS**
 1. COORDINATE WITH OWNER TO IDENTIFY BUILDING COMPONENTS AND EQUIPMENT REQUIRED TO BE REMOVED AND DELIVERED TO OWNER.
 2. TAG COMPONENTS AND EQUIPMENT OWNER DESIGNATES FOR SALVAGE.
 3. PROTECT DESIGNATED SALVAGE ITEMS FROM DEMOLITION OPERATIONS UNTIL ITEMS CAN BE REMOVED.
 4. CAREFULLY REMOVE BUILDING COMPONENTS AND EQUIPMENT INDICATED TO BE SALVAGED.
 5. DISASSEMBLE AS REQUIRED TO PERMIT REMOVAL FROM BUILDING.
 6. PACKAGE SMALL AND LOOSE PARTS TO AVOID LOSS.
 7. MARK EQUIPMENT AND PACKAGE PARTS TO PERMIT IDENTIFICATION AND CONSOLIDATION OF COMPONENTS OF EACH SALVAGED ITEM.
 8. PREPARE ASSEMBLY INSTRUCTIONS CONSISTENT WITH DISASSEMBLED PARTS. PACKAGE ASSEMBLY INSTRUCTIONS IN PROTECTIVE ENVELOPE AND SECURELY ATTACH TO EACH DISASSEMBLED SALVAGED ITEM.
 9. DELIVER SALVAGED ITEMS TO OWNER. OBTAIN SIGNED RECEIPT FROM OWNER.
 10. OWNER TO REMOVE ALL FURNITURE, FIXTURES, AND EQUIPMENT PRIOR TO START OF DEMOLITION.



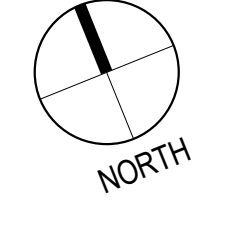
3 ENLARGED STORAGE DEMO RCP
 1/4" = 1'-0"

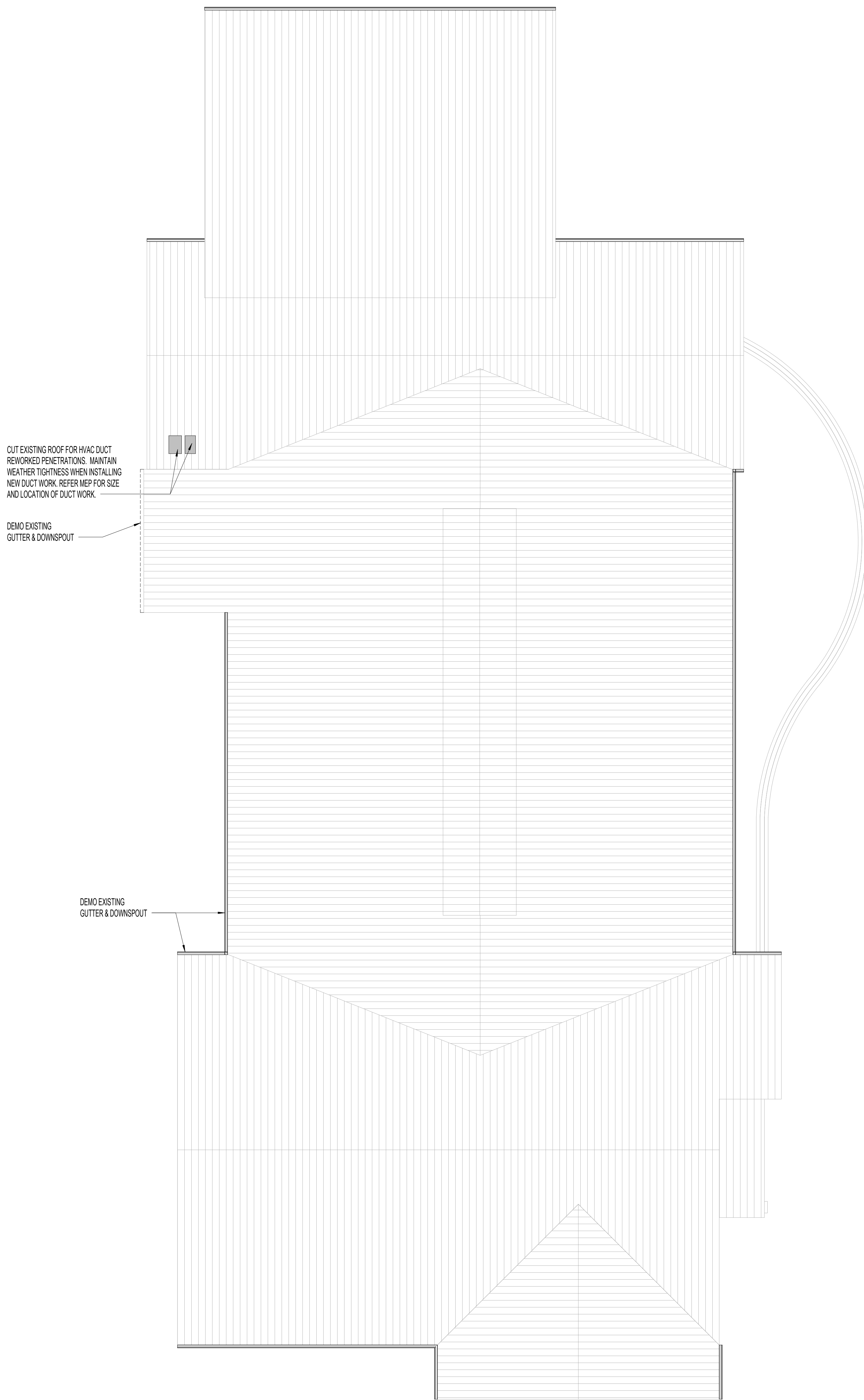


2 ENLARGED RECEPTION LOBBY DEMO RCP
 1/4" = 1'-0"



1 OVERALL REFLECTED CEILING DEMO PLAN
 1/8" = 1'-0"





1 ROOF DEMO PLAN
1/8" = 1'-0"

GENERAL DEMOLITION NOTES

DEMOLITION DOCUMENTS ARE INTENDED TO PREPARE THE EXISTING CONDITIONS TO RECEIVE NEW CONSTRUCTION AND MODIFICATIONS, AS INDICATED ON OTHER CONSTRUCTION DOCUMENTS, AND ARE INTENDED TO REFLECT KNOWN CONDITIONS AS CLOSELY AS POSSIBLE. CONTRACTOR IS TO VERIFY ALL CONDITIONS PRIOR TO EXECUTION OF DEMOLITION WORK AND SHALL REPORT ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL CONDITIONS.

- 01 - SEQUENCING
 - 1. SEQUENCE ACTIVITIES IN THE FOLLOWING ORDER
- 02 - SCHEDULING
 - 1. SCHEDULE WORK TO COINCIDE WITH (NEW CONSTRUCTION)
 - 2. PERFORM WORK BETWEEN HOURS OF [X] AND [X]
- 03 - PROJECT CONDITIONS
 - 1. CONDUCT DEMOLITION TO MINIMIZE INTERFERENCE WITH ADJACENT AND OCCUPIED BUILDING AREAS
 - 2. CEASE OPERATIONS IMMEDIATELY WHEN STRUCTURE APPEARS TO BE IN DANGER AND NOTIFY ARCHITECT/ENGINEER/OWNER. DO NOT RESUME OPERATIONS UNTIL DIRECTED.
- 04 - PREPARATION
 - 1. CONTRACTOR TO VERIFY ALL EXISTING CONDITIONS AND COORDINATE ALL DEMOLITION WORK WITH EXISTING CONSTRUCTION PRIOR TO EXECUTION OF DEMOLITION.
 - 2. CONFORM TO APPLICABLE BUILDING CODE FOR DEMOLITION WORK, DUST CONTROL, PRODUCTS REQUIRING ELECTRICAL DISCONNECTION AND RE-CONNECTION.
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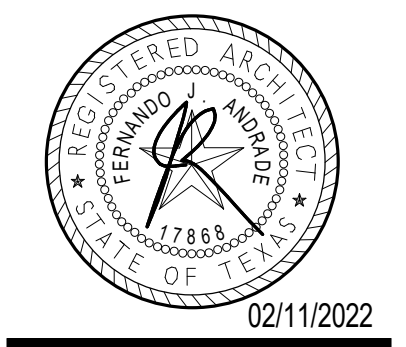
CITY OF MESQUITE ANIMAL SHELTER & ADOPTION CENTER
 1650 GROSS Rd
 MESQUITE, TX, 75149



g s r | a n d r a d e
ARCHITECTS

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Revisions:

REV.	DATE	TITLE

Date:
 CONSTRUCTION DOCS
 02-11-2022
 Project No.
 2942
 Drawn By:
 Author
 Checked By:
 Checker
 Sheet Title:
 ROOF DEMOLITION PLAN
 Drawing No.

DA4.10

CONSTRUCTION DOCUMENTS FOR MESQUITE ANIMAL SHELTER & ADOPTION CENTER FACILITY EXPANSION

2.0136 ACRES

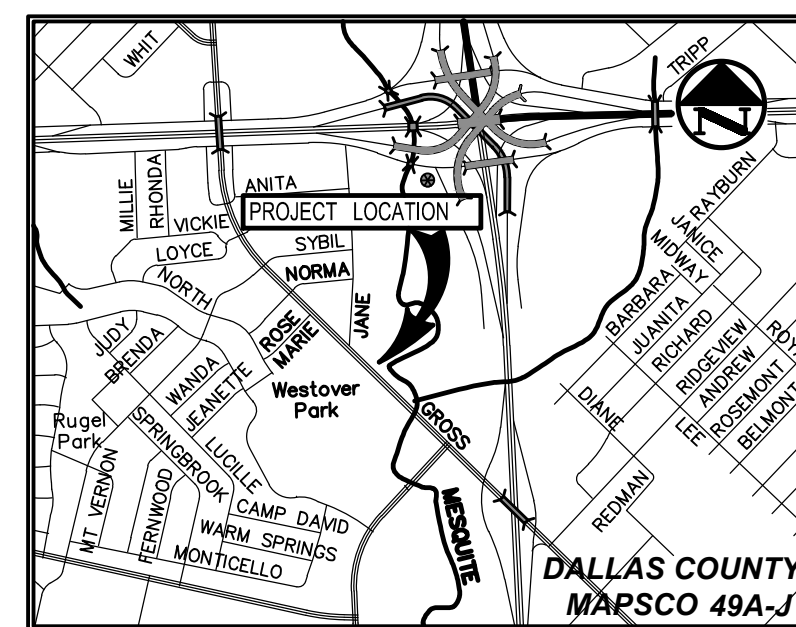
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

FEBRUARY 2022

FOR



4121 COMMERCE ST. #1,
DALLAS, TX 75226
(214)824-7040



VICINITY MAP
(NOT TO SCALE)

DRAWING SHEET INDEX

Sheet Number	Sheet Title
C0.1	COVER
C1.1	DIMENSIONAL CONTROL PLAN
C2.1	GRADING PLAN
C3.1	PROPOSED DRAINAGE AREA MAP
C4.1	STORM SEWER PLAN
C5.1	SITE UTILITY PLAN
C6.1	PAVING PLAN
C6.2	PAVING DETAILS
C7.1	EROSION CONTROL PLAN & DETAILS

PREPARED BY



7557 RAMBLER ROAD SUITE 1400 T: 972.235.3031
DALLAS, TX 75231 F: 972.235.9544
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

PRELIMINARY

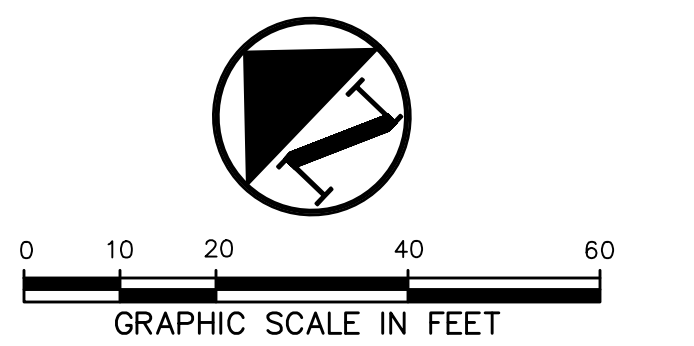
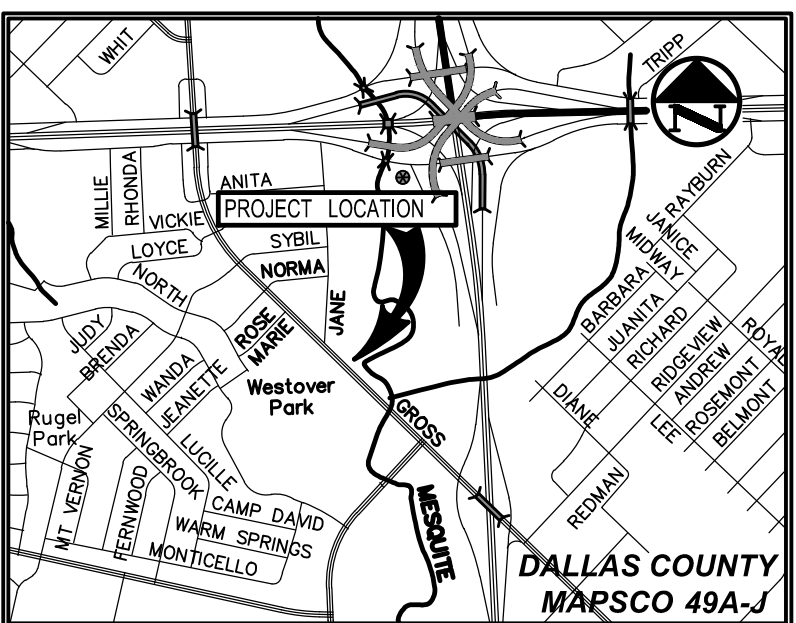
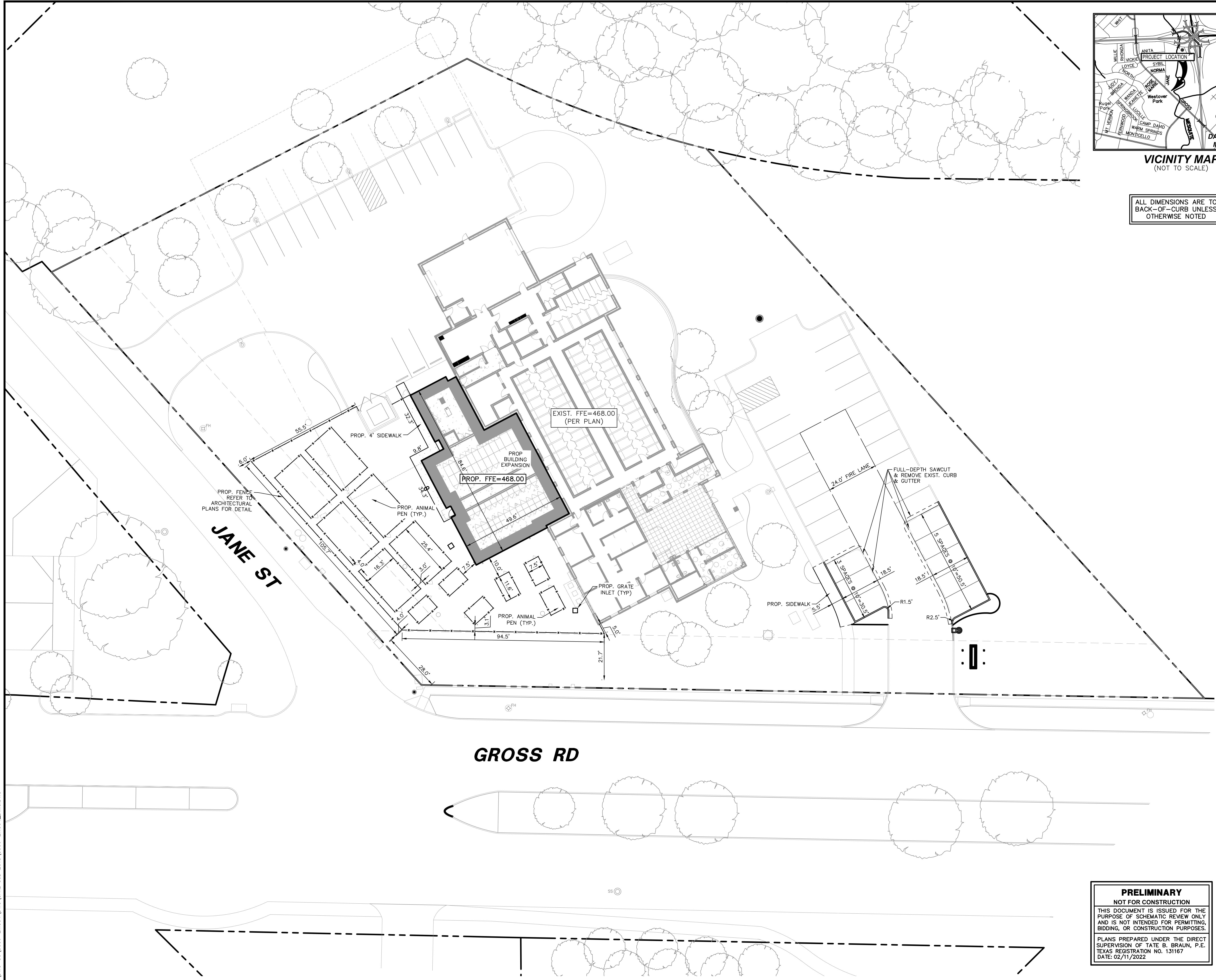
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THIS DOCUMENT IS ISSUED FOR THE PURPOSE OF SCHEMATIC REVIEW ONLY AND IS NOT INTENDED FOR PERMITTING, BIDDING, OR CONSTRUCTION PURPOSES.

PLANS PREPARED UNDER THE DIRECT SUPERVISION OF TATE B. BRAUN, P.E. TEXAS REGISTRATION NO. 131167 DATE: 02/11/2022

ISSUED FOR PRELIMINARY PRICING PURPOSES ONLY
(SUBJECT TO REVISION PRIOR TO CONSTRUCTION)

THESE DOCUMENTS HAVE BEEN PREPARED BY THE ENGINEER WITH THE INTENT OF COMPLYING WITH ALL CITY STANDARD REQUIREMENTS. THESE DOCUMENTS HAVE NOT BEEN APPROVED AND RELEASED FOR CONSTRUCTION BY THE CITY AS OF THIS DATE AND, THEREFORE, REVISIONS MAY BE REQUIRED PRIOR TO CONSTRUCTION. BY ANY USE OF THESE DOCUMENTS, THE USER AFFIRMS THEIR UNDERSTANDING OF THE PRELIMINARY STATUS OF THE PLANS AND THE POTENTIAL FOR REVISION PRIOR TO ANY CONSTRUCTION.



ALL DIMENSIONS ARE TO BACK-OF-CURB UNLESS OTHERWISE NOTED

GENERAL NOTES

- ALL WORK, UNLESS OTHERWISE NOTED, SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS AND THE CITY OF MESQUITE STANDARD CONSTRUCTION SPECIFICATIONS.
- PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL BE FAMILIAR WITH THE PLANS, ALL NOTES, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION ISSUED BY THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS, THE CITY STANDARDS FOR CONSTRUCTION, AND ANY OTHER APPLICABLE STANDARDS AND SPECIFICATIONS RELEVANT TO THE PROPER COMPLETION OF THE WORK SPECIFIED. FAILURE ON THE PART OF THE CONTRACTOR TO BE FAMILIAR WITH ALL STANDARDS AND SPECIFICATIONS PERTAINING TO THIS WORK SHALL IN NO WAY RELIEVE THE CONTRACTOR OF RESPONSIBILITY OF PERFORMING THE WORK IN ACCORDANCE WITH ALL SUCH APPLICABLE STANDARDS AND SPECIFICATIONS.
- THE HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING SUBSURFACE UTILITIES HAVE BEEN DETERMINED FROM DATA RECORDED BY OTHERS. CONTRACTOR SHALL VERIFY THAT NECESSARY CROSSING CLEARANCES BETWEEN EXISTING AND PROPOSED UTILITIES EXIST PRIOR TO CONSTRUCTION OF ANY SUCH CROSSINGS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL UTILITIES IN THE CONSTRUCTION OF THIS PROJECT. CONTRACTOR TO VERIFY SIZE AND LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
- IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT ALL MANHOLES, CLEANOUTS, VALVE BOXES, AND FIRE HYDRANTS, ETC., CONTRACTOR TO ADJUST TO PROPER LINE AND GRADE PRIOR TO AND AFTER THE PLACING OF PERMANENT PAVING AND GRADING. UTILITIES MUST BE MAINTAINED TO PROPER LINE AND GRADE DURING THE CONSTRUCTION OF THE PAVING FOR THIS DEVELOPMENT.
- 5.1. PROTECT AND MAINTAIN ROADWAY TRAFFIC THROUGHOUT THE PROJECT, PROVIDING A MINIMUM OF ONE (1) LANE OPEN IN EACH DIRECTION;
5.2. PROVIDE AND MAINTAIN INTERIM ACCESS FROM ROADWAYS CURRENTLY IN USE TO ALL DRIVEWAYS AND INTERSECTING STREETS OR ALLEYS;
5.3. MAINTAIN NORMAL PROJECT DRAINAGE UNTIL NEW DRAINAGE FACILITIES ARE FUNCTIONAL, INCLUDING, WHERE NECESSARY, INTERIM REPLACEMENT OF EXISTING DRAINAGE STRUCTURES REMOVED FOR CONSTRUCTION OF NEW DRAINAGE FACILITIES;
5.4. MAINTAIN ALL WORK AND MATERIAL STORAGE AREAS IN ORDERLY CONDITION, FREE OF DEBRIS AND WASTE. ON COMPLETION OF CONSTRUCTION, CLEAN UP THE PROJECT AND ADJACENT AFFECTED AREAS TO ACCEPTABLE CONDITION, ALL AS PROVIDED IN THE GENERAL CONDITIONS.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, BONDS AND THREE-WAY CONTRACTS SHALL BE SUBMITTED TO THE CITY AS REQUIRED.
- THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING TRENCH SAFETY.
- REFER TO ARCHITECTURAL AND STRUCTURAL PLANS TO VERIFY ALL BUILDING DIMENSIONS.
- REFER TO ARCHITECTURAL PLANS FOR DETAILED BUILDING ENTRANCE LAYOUTS, RAMPS, LANDSCAPE, AND SIDEWALKS.
- BARRICADING AND PROJECT SIGNS SHALL CONFORM TO TEXAS DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND LATEST UPDATES.
- EXACT SAWCUT PAVEMENT REMOVAL AND REPLACEMENT LIMITS WITHIN THE PUBLIC RIGHT-OF-WAY IS TO BE IN ACCORDANCE WITH THE CITY PAVEMENT REPAIR MANUAL AND INCLUDED IN THE BASE BID.

NOTE: IMPROVEMENTS SHOWN ARE APPROXIMATE AND ARE A COMBINATION OF LIDAR, VISUAL, AND AS-BUILT PROVIDED BY THE OWNER. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.

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NO.	DATE	REVISION

Pacheco Koch
7557 RAMBLER ROAD SUITE 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

DIMENSIONAL CONTROL PLAN
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

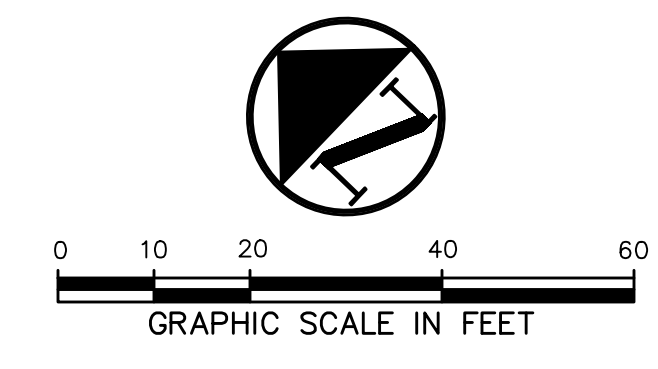
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PLANS PREPARED UNDER THE DIRECT SUPERVISION OF TATE B. BRAUN, P.E.
TEXAS REGISTRATION NO. 131167
DATE: 02/11/2022

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2/9/2022 10:25 AM
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LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TS	TRAFFIC SIGNAL POLE
TE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
SI	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD
(C.M.)	W/ PACHECO KOCH CAP SET
---	CONTROLLING MONUMENT
---	PROPERTY LINE
---	FENCE
---	OVERHEAD UTILITY LINE
---	EXIST CONTOUR
---	EXIST SPOT ELEVATION
---	EXIST TOP OF CURB ELEVATION
---	EXIST GUTTER ELEVATION
(400)	PROPOSED CONTOUR
TC 614.50	PROPOSED TOP OF CURB ELEVATION
G 614.00	PROPOSED GUTTER ELEVATION
EL 614.25	PROPOSED SPOT ELEVATION
TW 620.50	PROPOSED TOP OF WALL ELEVATION
EL 614.00	PROPOSED GROUND ELEVATION AT BOTTOM OF WALL
M.G.	MATCH EXISTING GRADE
---	PROPOSED SWALE
---	PROPOSED GRADE BREAK
---	PROPOSED DRAINAGE FLOW DIRECTION
---	PROPOSED 100-YR FLOODPLAIN LIMITS

- GRADING & DRAINAGE GENERAL NOTES**
- REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
 - UNLESS NOTED, ALL FILL IS TO BE COMPACTED TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY WITHIN 3% OF OPTIMUM MOISTURE CONTENT. FILL TO BE PLACED IN MAXIMUM LIFTS OF 6 INCHES.
 - SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.
 - GRADING OF ALL HANDICAPPED SPACES AND ROUTES TO CONFORM TO FEDERAL, STATE, AND LOCAL GUIDELINES.
 - ALL PROPOSED AND EXISTING GRADES IN NON-PAVED AREAS ARE "FINISHED GRADE" (i.e. IN LANDSCAPE BEDS, TOP OF MULCH/BEDDING MATERIAL).
 - UNLESS NOTED, STORM DRAIN LINES SHALL BE OF THE FOLLOWING MATERIALS AND INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS:
 - 6.A. ROP C-76, CLASS III
 - 6.B. ADS N-12
 - 6.C. HANCOR HI-Q
 - 6.D. CONTECH ALUMINIZED ULTRA FLOW
 - UNLESS NOTED, GRATE INLETS TO BE "FORTERRA PIPE AND PRECAST" CATCH BASIN SIZED AS SHOWN, OR APPROVED EQUAL.
 - FINAL PAVING, CURB, AND SIDEWALK ELEVATIONS WILL BE PLACED AT PLUS OR MINUS 0.03 FOOT.
 - REFER TO LANDSCAPE SPECIFICATIONS FOR SEEDING AND SODDING REQUIREMENTS.
 - ANY CONCRETE, ROCK, OR MATERIAL DEEMED BY THE ENGINEER TO BE UNSUITABLE FOR SUBGRADE SHALL BE DISPOSED OF OFFSITE AT CONTRACTOR'S EXPENSE.
 - TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
 - EMBLEMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
 - A ROUND MANHOLE COVER MEETING CITY SPECIFICATIONS SHALL BE PLACED IN ALL INLET TOPS NEAR THE OUTLET PIPE.
 - ALL CONCRETE FOR INLETS AND DRAINAGE STRUCTURES SHALL CONFORM TO NCTCOG ITEM 702.2.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN STANDARD CITY SPECIFICATIONS.
 - CRUSHED STONE BEDDING OR APPROVED EQUAL SHALL BE PROVIDED BY THE CONTRACTOR WHEN ROCK IS ENCOUNTERED IN TRENCHES. THERE SHALL BE NO ADDITIONAL PAY ITEM FOR CRUSHED STONE BEDDING.
 - IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

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NO.	DATE	REVISION

Pacheco Koch
7557 RAMBLER ROAD SUITE 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-1008000

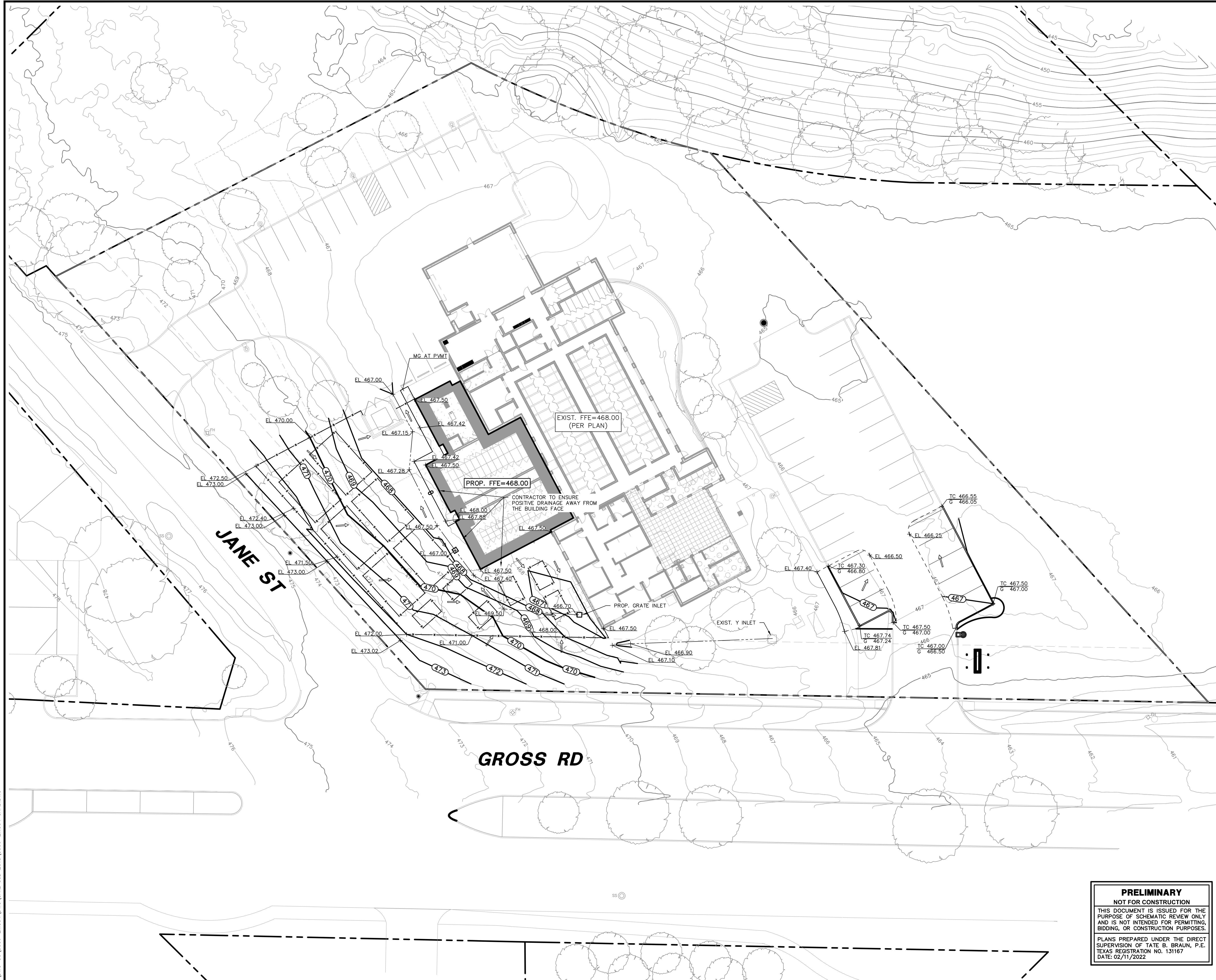
GRADING PLAN
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TBB	JBG	FEB 2022	1"=20'			C2.1

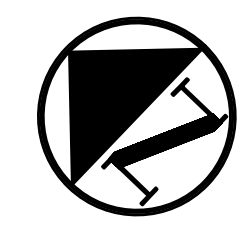
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PLANS PREPARED UNDER THE DIRECT SUPERVISION OF TATE B. BRAUN, P.E.
TEXAS REGISTRATION NO. 131167
DATE: 02/11/2022



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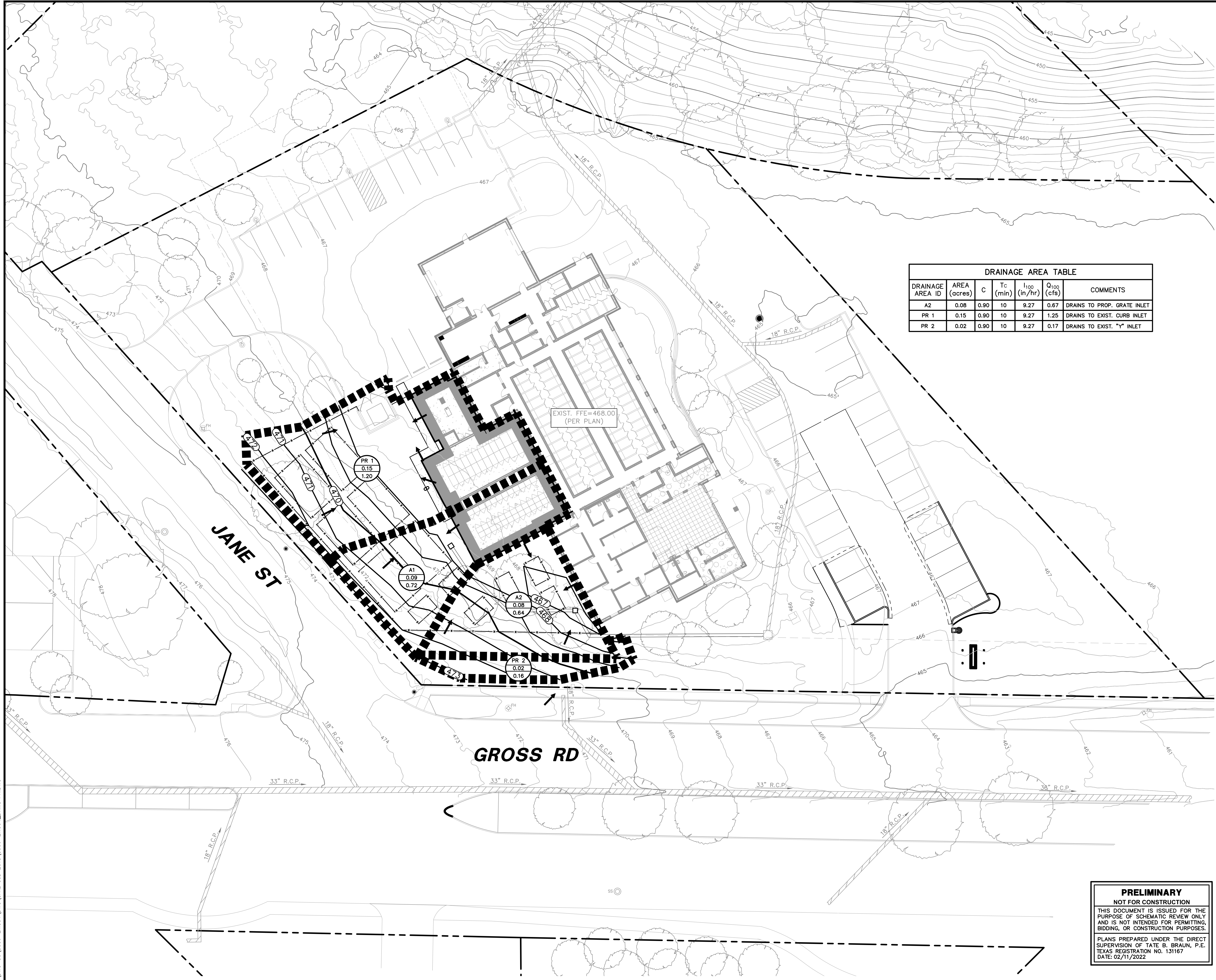
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GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EM. ELECTRIC METER
- PP. POWER POLE
- LS. LIGHT STANDARD
- WM. WATER METER
- WV. WATER VALVE
- ICV. IRRIGATION CONTROL VALVE
- FH. FIRE HYDRANT
- CH. CLEANOUT
- MH. MANHOLE
- TSC. TRAFFIC SIGNAL CONTROL
- TSP. TRAFFIC SIGNAL POLE
- TELE. TELEPHONE BOX
- FL. FLOOD LIGHT
- FP. FLAG POLE
- TR. TRAFFIC SIGN
- X— PROPERTY LINE
- - - FENCE
- - - EXISTING CONTOUR
- 450 PROPOSED CONTOUR
- DRAINAGE FLOW DIRECTION
- ■ ■ ■ ■ 100-YR FLOODPLAIN LIMITS
- ■ ■ ■ ■ DRAINAGE DIVIDE
- U 8 PROPOSED DRAINAGE AREA ID
- 1.00 AREA IN ACRES
- 7.99 Q₁₀₀ IN CUBIC FEET PER SECOND

DRAINAGE AREA TABLE						
DRAINAGE AREA ID	AREA (acres)	C	T _c (min)	I ₁₀₀ (in/hr)	Q ₁₀₀ (cfs)	COMMENTS
A2	0.08	0.90	10	9.27	0.67	DRAINS TO PROP. GRATE INLET
PR 1	0.15	0.90	10	9.27	1.25	DRAINS TO EXIST. CURB INLET
PR 2	0.02	0.90	10	9.27	0.17	DRAINS TO EXIST. "Y" INLET

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PROPOSED DRAINAGE AREA MAP
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION

CITY OF MESQUITE, DALLAS COUNTY, TEXAS

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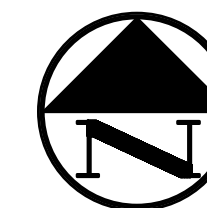
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MESQUITE ANIMAL SHELTER & ADOPTION CENTER



0 10 20 40 60

GRAPHIC SCALE IN FEET

LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FHC	FIRE HYDRANT
CO	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
SIGN	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD
(C.M.)	W/PACHECO KOCH" CAP SET
---	CONTROLLING MONUMENT
---	PROPERTY LINE
---	FENCE
---	OVERHEAD UTILITY LINE
---	EXISTING STORM LINE
---	UNDERGROUND ELECTRIC LINE
---	UNDERGROUND TELEPHONE LINE
---	UNDERGROUND CABLE LINE
---	UNDERGROUND WATER LINE
---	UNDERGROUND SANITARY SEWER LINE
---	PROPOSED STORM LINE
TI	TOP OF INLET

GRADING & DRAINAGE GENERAL NOTES

- REFER TO GEOTECHNICAL REPORT FOR REQUIREMENTS REGARDING FILL COMPACTION AND MOISTURE CONTENT.
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 - B. ADS N-12
 - C. HANCOCK HI-0
 - D. CONTECH ALUMINIZED ULTRA FLOW
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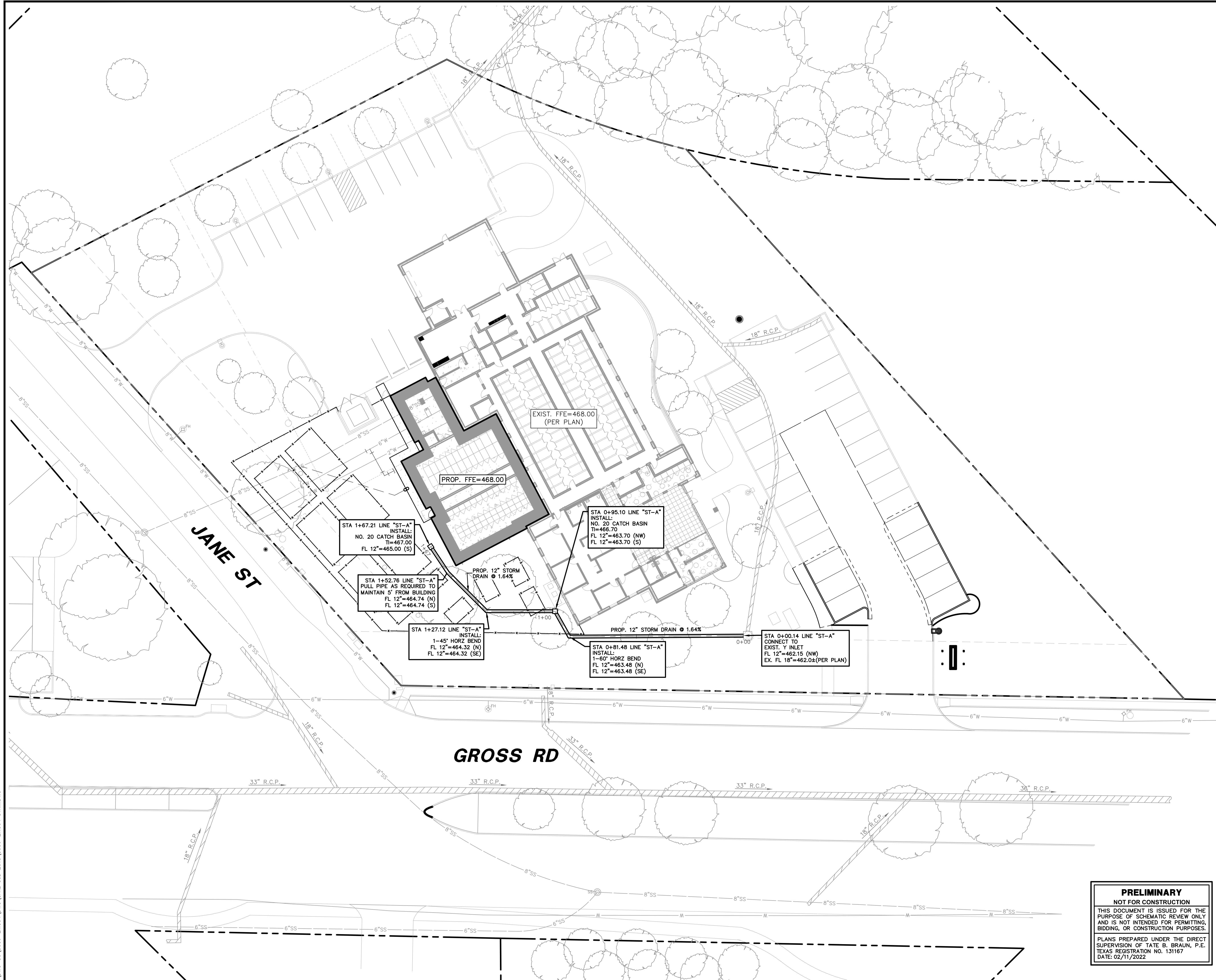
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Pacheco Koch 7557 RAMBLER ROAD SUITE 1400 DALLAS, TX 75231 972.235.3031 TX REG. ENGINEERING FIRM F-469 TX REG. SURVEYING FIRM LS-10008000

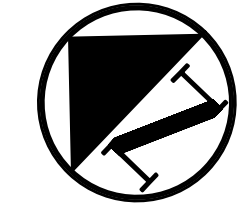
STORM SEWER PLAN
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TBB	JBG	FEB 2022	1"=20'			C4.1

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PLANS PREPARED UNDER THE DIRECT SUPERVISION OF TATE B. BRAUN, P.E. TEXAS REGISTRATION NO. 131167 DATE: 02/11/2022



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LEGEND

B	BOLLARD
EM	ELECTRIC METER
PP	POWER POLE
LS	LIGHT STANDARD
WM	WATER METER
WV	WATER VALVE
ICV	IRRIGATION CONTROL VALVE
FH	FIRE HYDRANT
CL	CLEANOUT
MH	MANHOLE
TSC	TRAFFIC SIGNAL CONTROL
TSP	TRAFFIC SIGNAL POLE
TELE	TELEPHONE BOX
FL	FLOOD LIGHT
FP	FLAG POLE
SI	TRAFFIC SIGN
IRS	1/2-INCH IRON ROD
(C.M.)	W/PACHECO KOCH* CAP SET
---	CONTROLLING MONUMENT
---	PROPERTY LINE
-x-	FENCE
-DL-	OVERHEAD UTILITY LINE
-E-	UNDERGROUND ELECTRIC LINE
-T-	UNDERGROUND TELEPHONE LINE
-C-	UNDERGROUND CABLE LINE
-W-	UNDERGROUND WATER LINE
-SS-	UNDERGROUND SANITARY SEWER LINE
+	PROP. LOC. LOCATION
+	PROP. WATER VALVE
+	PROP. FIRE HYDRANT
+	PROP. WATER LINE W/ BEND
+	PROP. SANITARY SEWER LINE
+	PROP. SANITARY SEWER MANHOLE
+	PROP. SANITARY SEWER CLEANOUT

WATER & SANITARY SEWER GENERAL NOTES

- ALL CONCRETE SHALL BE CLASS "A" (3000 PSI), UNLESS OTHERWISE NOTED.
- ALL WATER MAINS SHALL BE PVC C900, OR 18" CLASS 235, FIRE PROTECTION SERVICES SHALL BE PVC C900, DR 14, CLASS 305 AND INSTALLED IN ACCORDANCE WITH THE DESIGN AND SPECIFICATIONS OF THE FIRE PROTECTION PLANS TO BE PREPARED BY A LICENSED FIRE PROTECTION CONTRACTOR.
- WATER AND SANITARY SEWER SERVICES SHALL MEET PLUMBING CODE REQUIREMENTS.
- ALL WATER MAINS SHALL HAVE A MINIMUM COVER OF 48 INCHES BELOW IMPROVED FINISHED GRADE, UNLESS OTHERWISE NOTED.
- SANITARY SEWER PIPE SHALL BE PVC SDR-35.
- WHEN WATER AND SANITARY SEWER MAINS, SERVICES, AND LATERALS ARE INSTALLED, THEY SHALL BE INSTALLED NO CLOSER TO EACH OTHER THAN NINE FEET IN ALL DIRECTIONS AND PARALLEL LINES MUST BE INSTALLED IN SEPARATE TRENCHES, WHERE THE NINE FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, THE FOLLOWING TCEQ CHAPTERS SHALL APPLY:
 - TCEQ CHAPTER 217.53 PIPE DESIGN, SECTION (d) SEPARATION DISTANCES.
 - TCEQ CHAPTER 290.44 WATER DISTRIBUTION, SECTION (e) LOCATION OF WATER LINES.
- CONTRACTOR TO VERIFY ALL EXISTING SEWER FLOW LINES BEFORE BEGINNING CONSTRUCTION.
- CONTRACTOR SHALL TIE A ONE INCH WIDE PIECE OF RED PLASTIC FLAGGING TO THE END OF SEWER SERVICE AND SHALL LEAVE A MINIMUM OF 36 INCHES OF FLAGGING EXPOSED AFTER BACKFILL. AFTER CURB AND PAVING IS COMPLETED, CONTRACTOR SHALL MARK THE LOCATION OF THE SEWER SERVICE ON THE CURB OR ALLEY IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
- ALL SANITARY SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH THE STANDARD CITY SPECIFICATIONS.
- THE UTILITY CONTRACTOR SHALL INSTALL THE WATER SERVICES TO A POINT TWO FEET BACK OF THE CURB LINE AT A DEPTH OF 12 INCHES. THE METER BOX SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AFTER THE PAVING CONTRACTOR HAS COMPLETED THE FINE GRADING BEHIND THE BACK OF THE CURB. EACH SERVICE LOCATION SHALL BE MARKED ON THE CURB WITH A BLUE LETTER "W" BY THE UTILITY CONTRACTOR AND TIED TO PROPERTY CORNERS ON THE "RECORD DRAWINGS."
- ALL METER BOXES SHALL BE LOCATED IN NON-TRAFFIC AREAS.
- TRENCH BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.2 AND SHALL BE MECHANICALLY COMPACTED IN 6-INCH LIFTS TO THE TOP OF SUBGRADE TO A MINIMUM OF 95% STANDARD PROCTOR DENSITY IN ACCORDANCE WITH NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- EMBEDMENT SHALL CONFORM TO THE REQUIREMENTS OF NCTCOG ITEM 504.5 UNLESS OTHERWISE SHOWN ON THESE PLANS OR STATED IN THE STANDARD CITY SPECIFICATIONS.
- VALVE BOXES SHALL BE FURNISHED AND SET ON EACH GATE VALVE. AFTER THE FINAL CLEAN-UP AND ALIGNMENT HAS BEEN COMPLETED, THE UTILITY CONTRACTOR SHALL POUR A 24"x24"x6" CONCRETE BLOCK AROUND ALL VALVE BOX TOPS LEVEL WITH THE FINISHED GRADE.
- CONTRACTOR SHALL RECONNECT ALL EXISTING SERVICES AND MAINTAIN EXISTING SERVICES THROUGHOUT CONSTRUCTION.
- IF REQUIRED DUE TO CONSTRUCTION, POWER POLES TO BE BRACED OR RELOCATED AT CONTRACTOR'S EXPENSE.

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DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

SITE UTILITY PLAN
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION

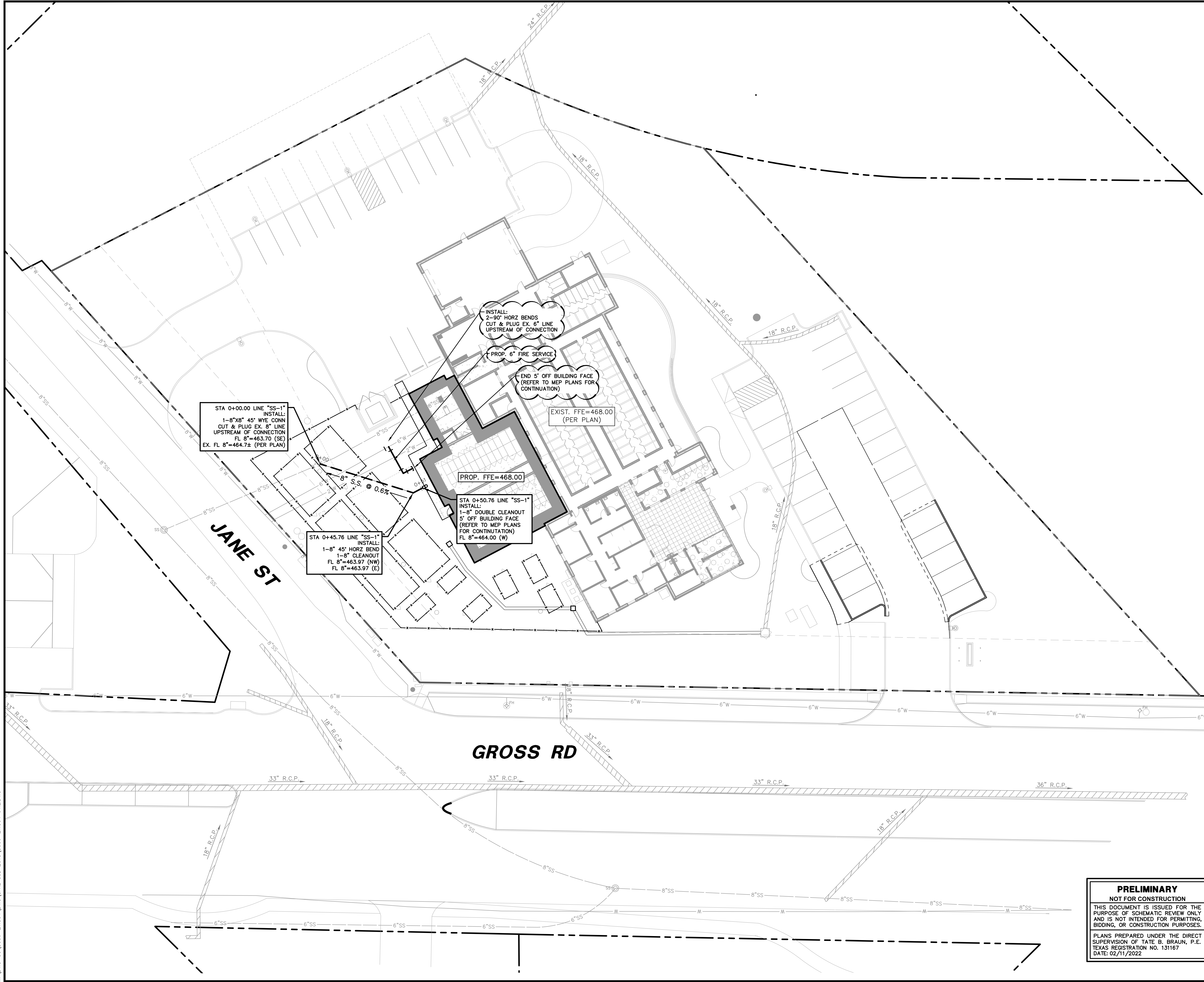
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

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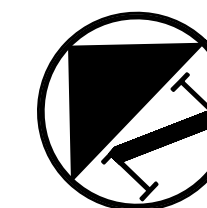
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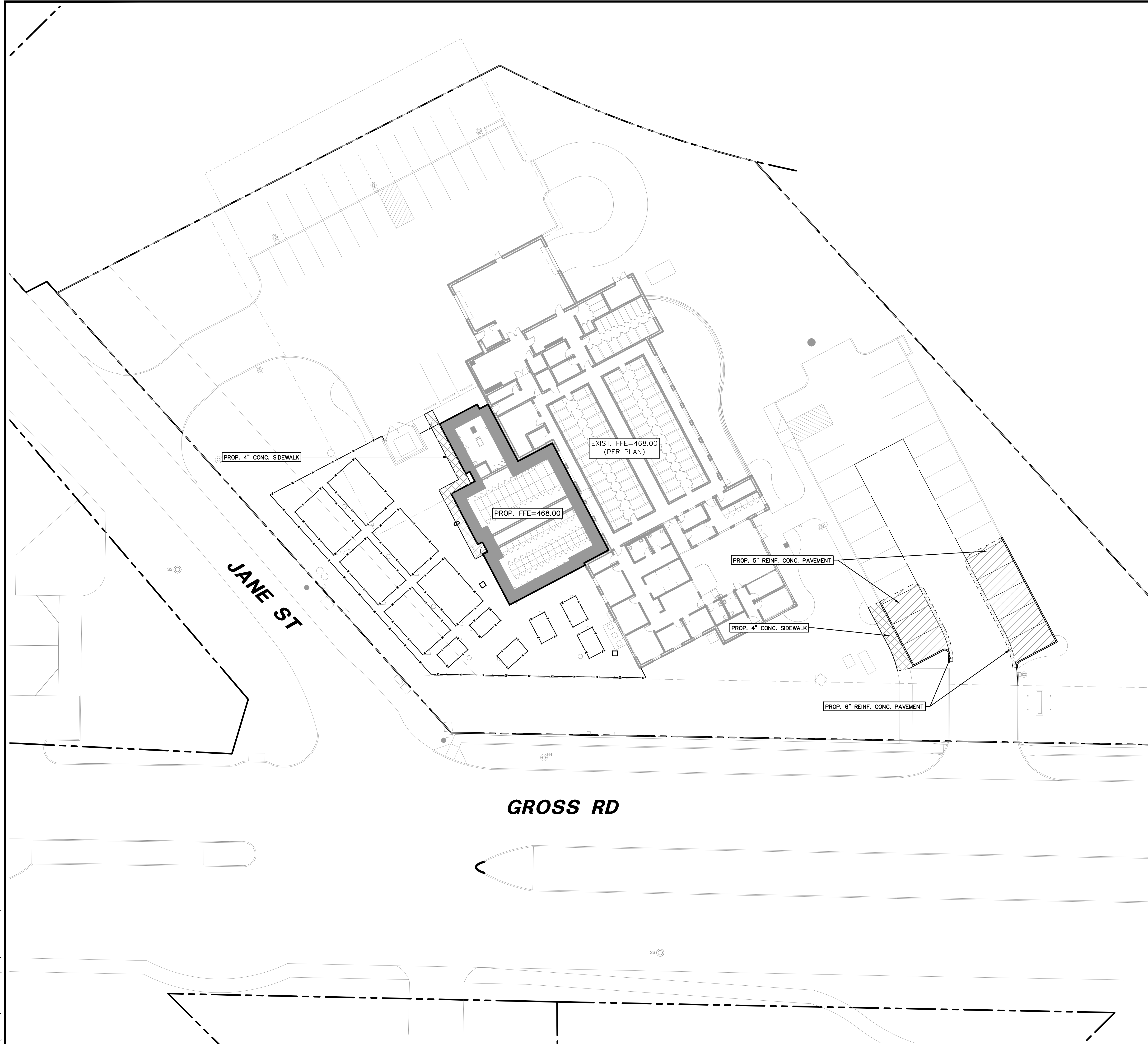
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GRAPHIC SCALE IN FEET

LEGEND

- B. BOLLARD
- EMD ELECTRIC METER
- PP POWER POLE
- LS LIGHT STANDARD
- WM WATER METER
- WV WATER VALVE
- ICV IRRIGATION CONTROL VALVE
- FH FIRE HYDRANT
- CO CLEANHOLE
- MH MANHOLE
- TSC TRAFFIC SIGNAL CONTROL
- TSP TRAFFIC SIGNAL POLE
- TELE TELEPHONE BOX
- FL FLOOD LIGHT
- FP FLAG POLE
- SIG TRAFFIC SIGN
- IRS 1/2-INCH IRON ROD
- W/PACHECO KOCH CAP SET
- (C.M.) CONTROLLING MONUMENT
- PROPERTY LINE
- FENCE
- FIRE LANE
- 4" REINFORCED CONCRETE (CLASS "A", 3000 PSI)
- PARKING AND DRIVE AREAS, 5" REINFORCED CONCRETE PVMT (CLASS "C", 3600 PSI)
- FIRE LANE, 6" REINFORCED CONCRETE PVMT (CLASS "C", 3600 PSI)



PAVING GENERAL NOTES

1. ALL DIMENSIONS ARE FROM BACK OF CURB UNLESS OTHERWISE NOTED.
2. ALL CONCRETE SHALL CONFORM TO NCTCOG ITEM 303.3.4, CLASS "A" (3000 PSI) UNLESS OTHERWISE SHOWN ON THESE PLANS, STATED IN STANDARD CITY SPECIFICATIONS OR STATED IN TXDOT STANDARD SPECIFICATIONS.
3. SUBGRADE PREPARATION IN RIGHT OF WAY SHALL CONFORM TO STANDARD CITY SPECIFICATIONS OR TXDOT STANDARD SPECIFICATIONS.
4. ALL FILL PLACED UNDER PAVING SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN 6 INCH LIFTS, UNLESS OTHERWISE NOTED, OR STATED IN GEOTECH REPORT. REFER TO STRUCTURAL SPECIFICATIONS FOR FILL PLACED BENEATH BUILDING AREAS. ALL OTHER FILL AREAS TO BE COMPACTED TO 90% STANDARD PROCTOR.
5. THE CONTRACTOR SHALL SUBMIT A JOINT SPACING PLAN TO THE ENGINEER FOR APPROVAL. EXPANSION JOINT SPACING SHALL BE 90' MAXIMUM EACH WAY WITH NO KEYWAYS AND SAWED DUMMY JOINTS SHALL BE 15' EACH WAY, UNLESS OTHERWISE NOTED.
6. TRANSVERSE CONSTRUCTION JOINTS SHALL BE USED AT THE END OF EACH DAYS PAVING AND WHERE INTERRUPTIONS SUSPEND OPERATIONS FOR 30 MINUTES OR MORE.
7. ALL PAVING TO BE REMOVED SHALL BE SAWCUT TO A NEAT LINE, MINIMUM 1-1/2" DEEP, AND THE PAVEMENT REMOVED IN SUCH A MANNER AS TO PRESERVE THE EXISTING TRANSVERSE REINFORCING STEEL TO THE MAXIMUM EXTENT POSSIBLE.
8. ALL CURB AND GUTTER SHALL BE INTEGRAL WITH THE PAVEMENT AND HAVE THE SAME COMPRESSIVE STRENGTH.
9. PAVEMENT REINFORCEMENT SHALL BE #3 BARS, SPACED AT 18 INCHES CENTER TO CENTER EACH WAY EXCEPT WHERE OTHERWISE NOTED IN THE PLANS OR GEOTECH REPORT.
10. BAR LAPS SHALL BE 30 DIAMETERS IN LENGTH.
11. ALL STRIPES SHALL BE 4 INCHES WIDE, UNLESS OTHERWISE NOTED.
12. INSTALLATION AND PLACEMENT OF IRRIGATION SLEEVES AND UTILITY CONDUITS SHALL BE IN ACCORDANCE WITH LANDSCAPE ARCHITECT AND MEP PLANS. CONTRACTOR TO VERIFY ALL SLEEVES HAVE BEEN PLACED PRIOR TO PAVING BEING PLACED.
13. SIDEWALKS AND ACCESSIBLE ROUTES SHALL HAVE A RUNNING SLOPE NO GREATER THAN 5% (UNLESS OTHERWISE NOTED) AND A CROSS SLOPE NO GREATER THAN 2%.

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Pacheco Koch 7557 RAMBLER ROAD SUITE 1400
DALLAS, TX 75231 972.235.3031
TX REG. ENGINEERING FIRM F-469
TX REG. SURVEYING FIRM LS-10008000

PAVING PLAN
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TBB	JBG	FEB 2022	1"=20'			C6.1

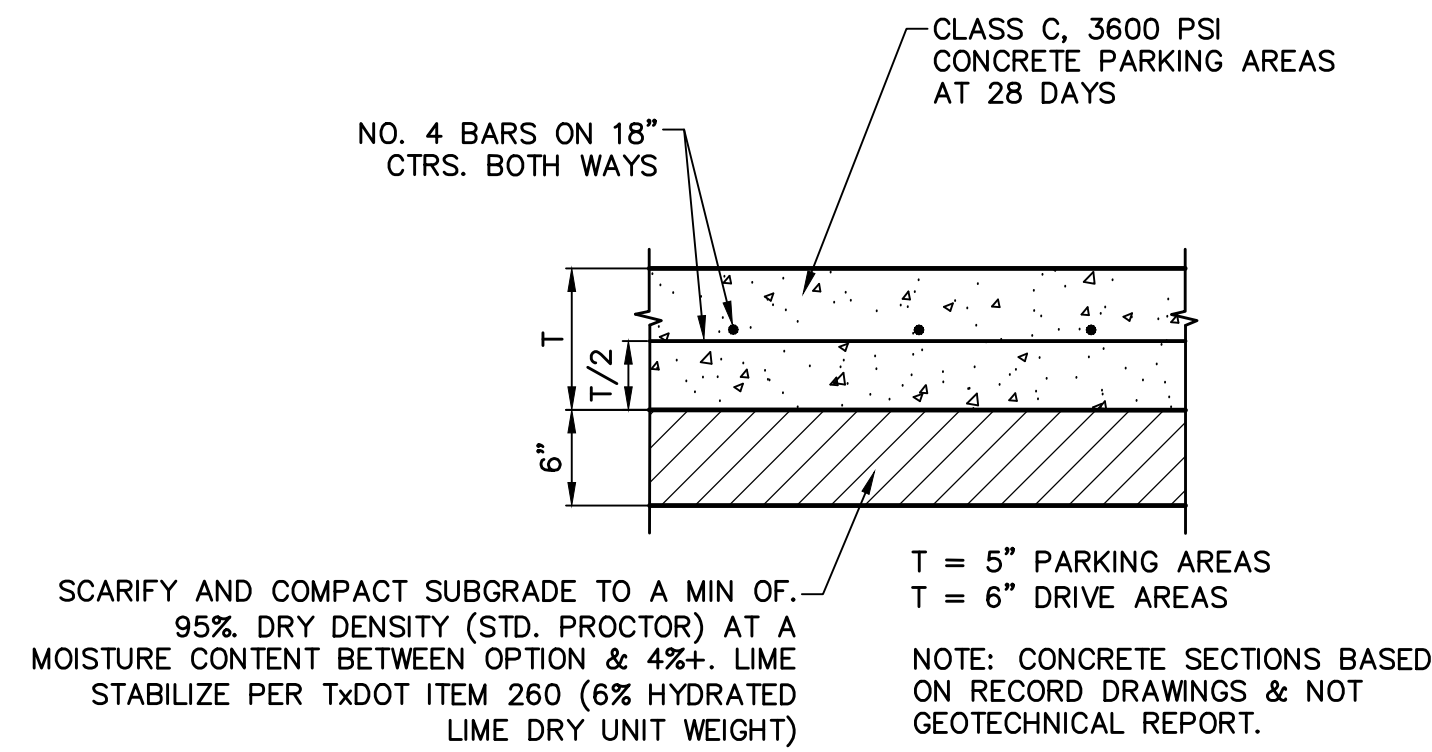
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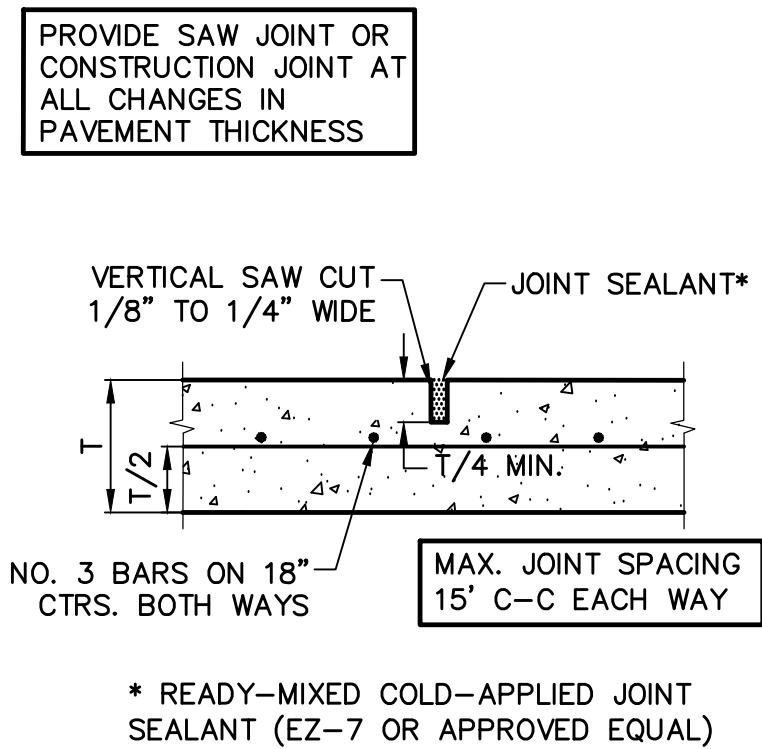
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TEXAS REGISTRATION NO. 131167
DATE: 02/11/2022

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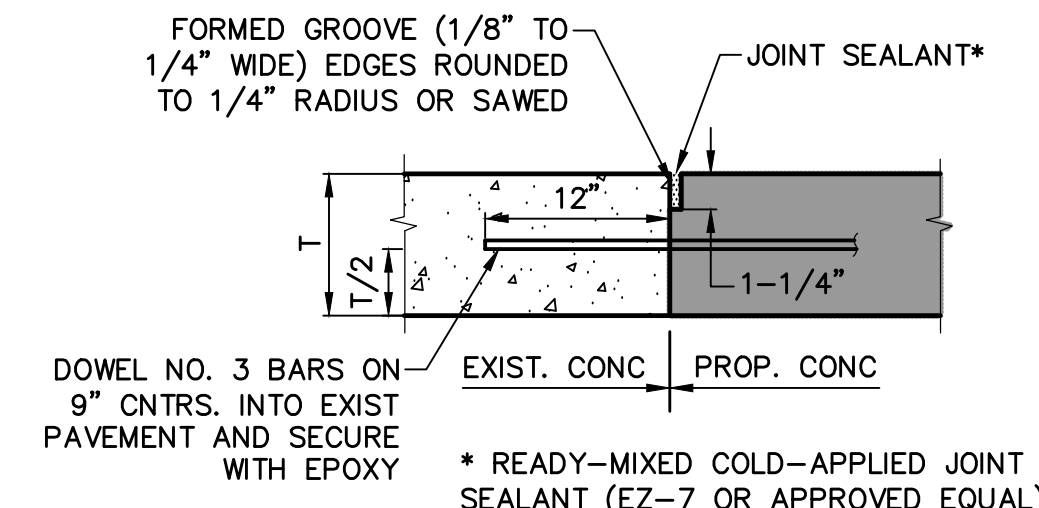
MESQUITE ANIMAL SHELTER & ADOPTION CENTER



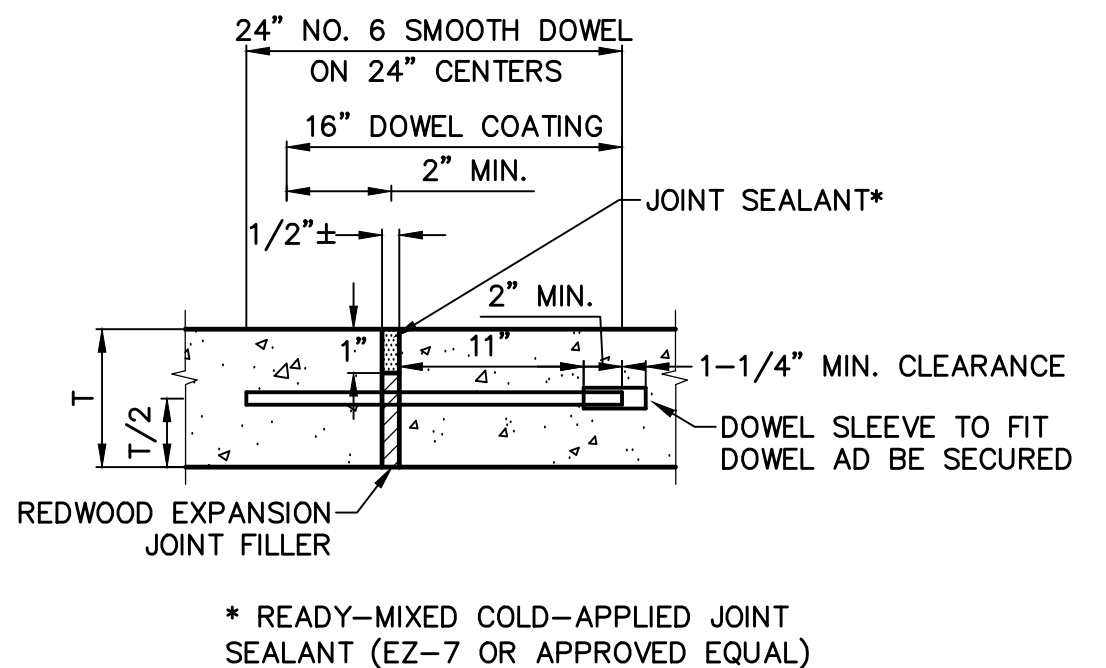
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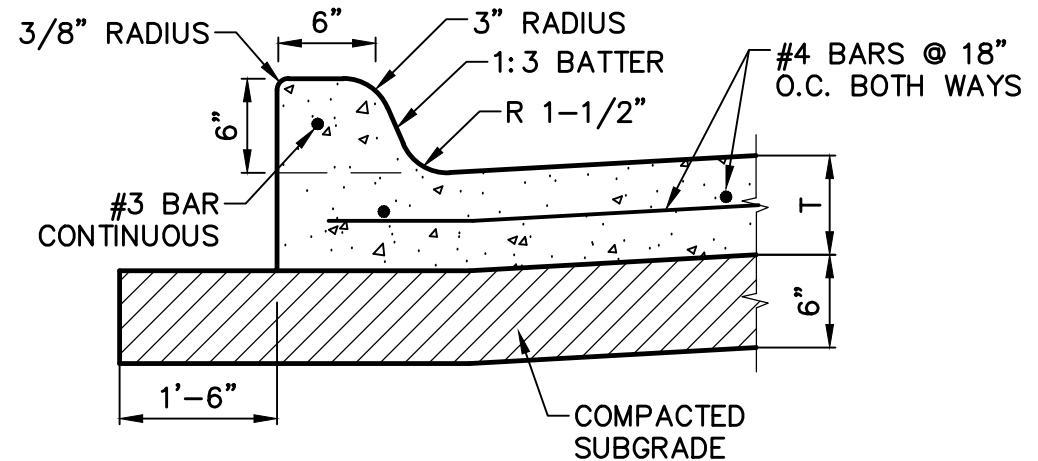
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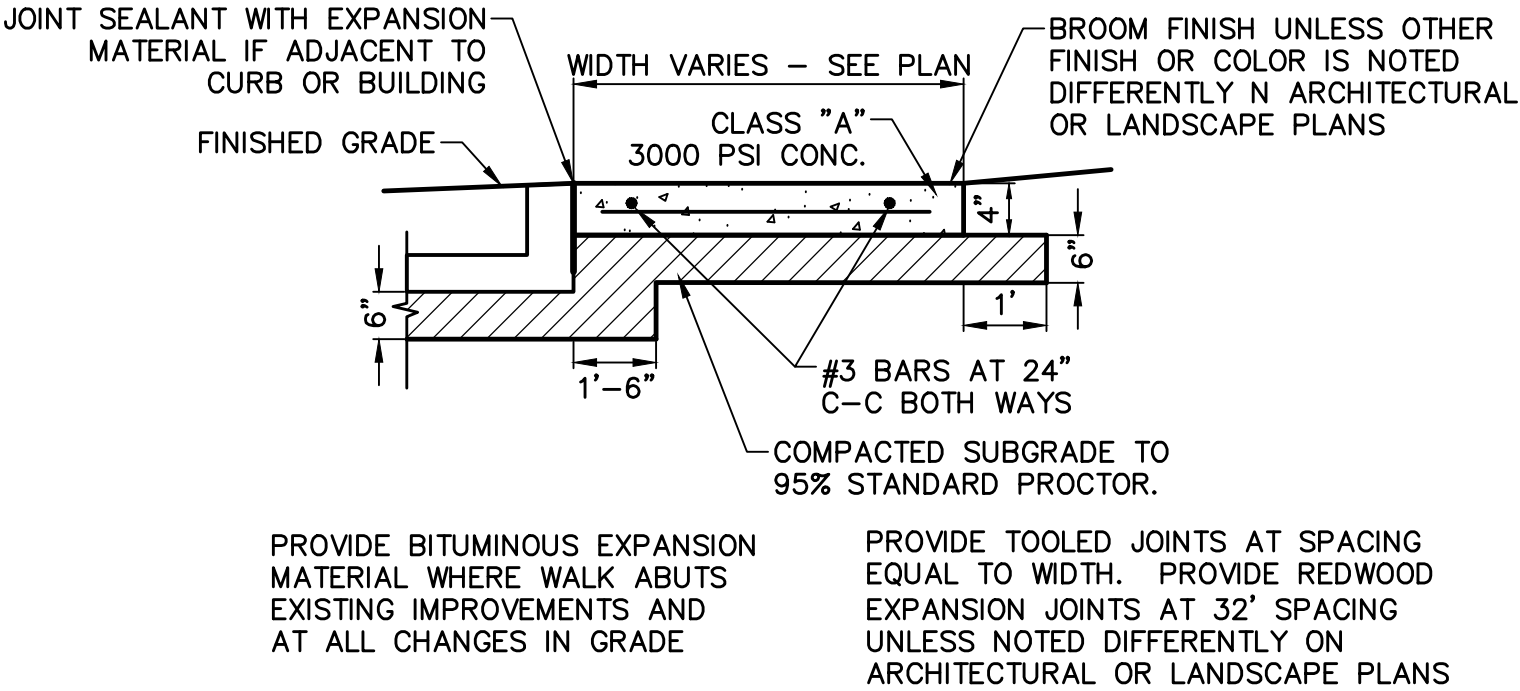
3 PAVEMENT CONNECTION
NOT TO SCALE



4 EXPANSION JOINT
NOT TO SCALE



5 INTEGRAL CURB
NOT TO SCALE



6 CONCRETE WALK PRIVATE
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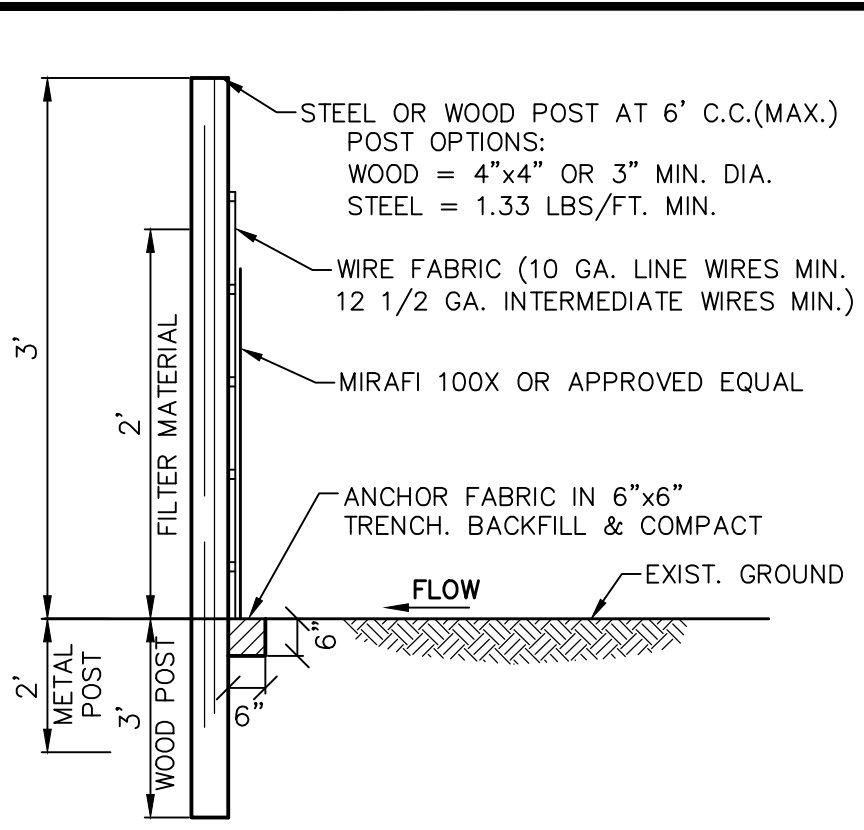
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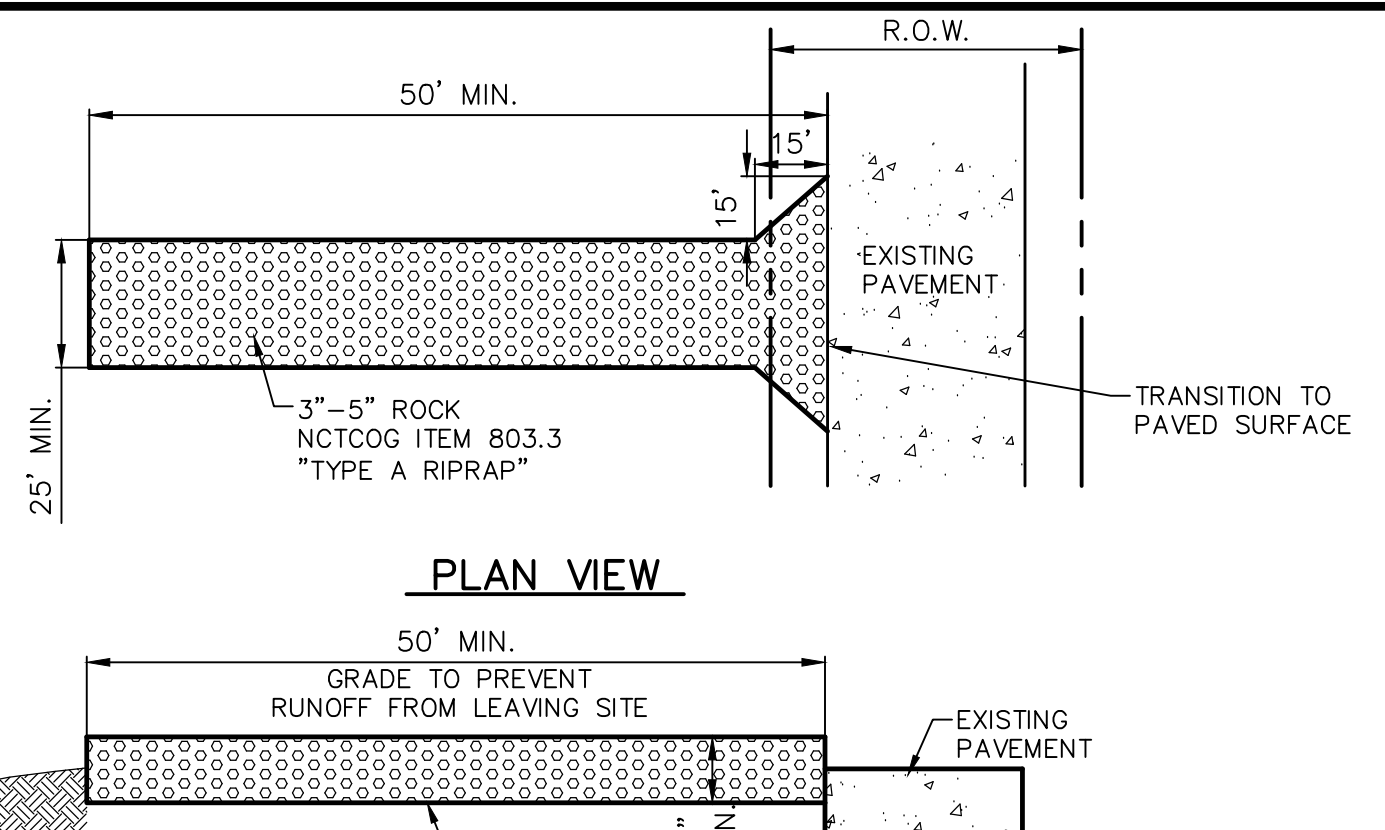
PAVING DETAILS
MESQUITE ANIMAL SHELTER & ADOPTION CENTER
FACILITY EXPANSION
CITY OF MESQUITE, DALLAS COUNTY, TEXAS

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TBB	JBG	FEB 2022	N.T.S.			C6.2

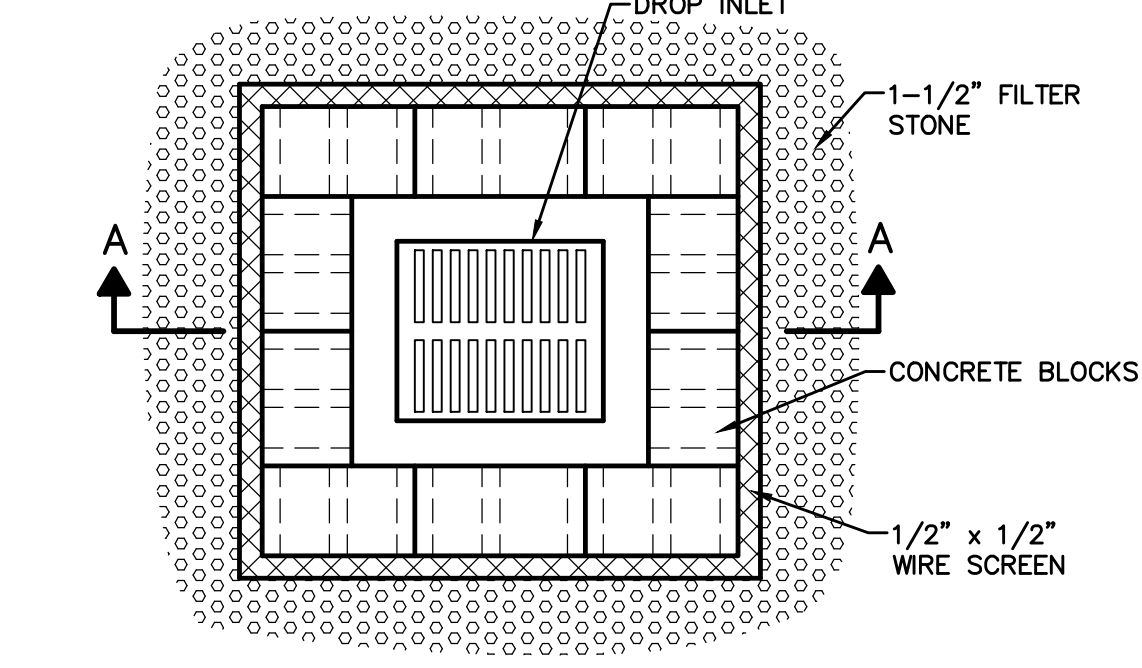
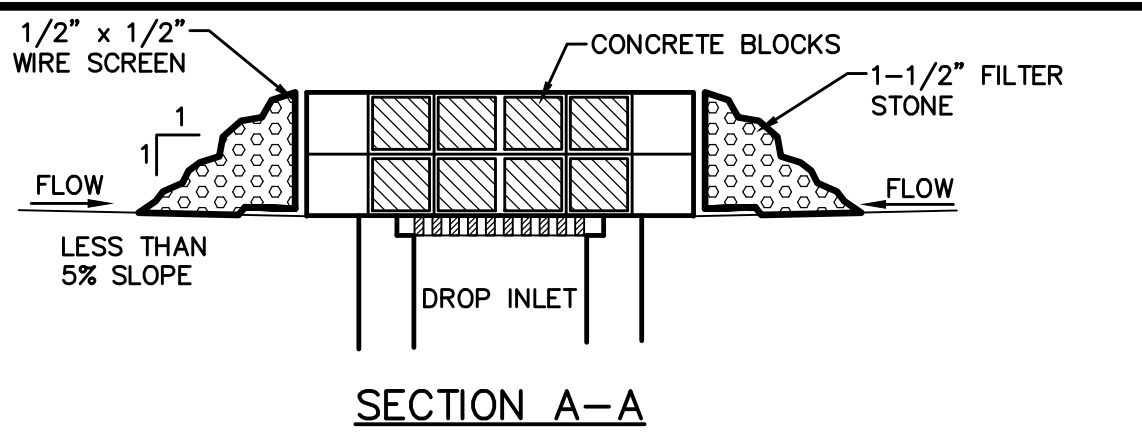
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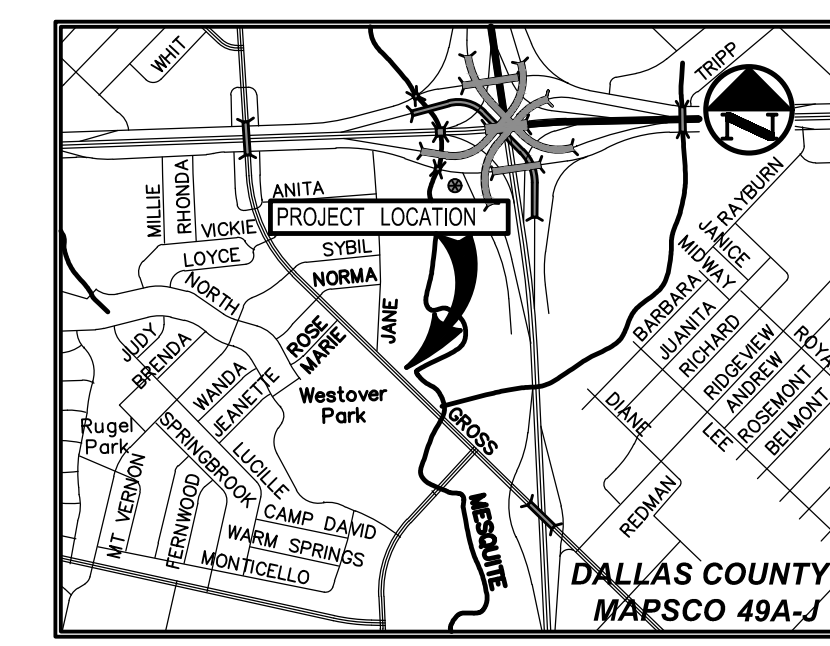
1 SILT FENCE
NOT TO SCALE



2 PROFILE STABILIZED CONSTRUCTION ENTRANCE
NOT TO SCALE



3 DROP INLET PROTECTION
NOT TO SCALE



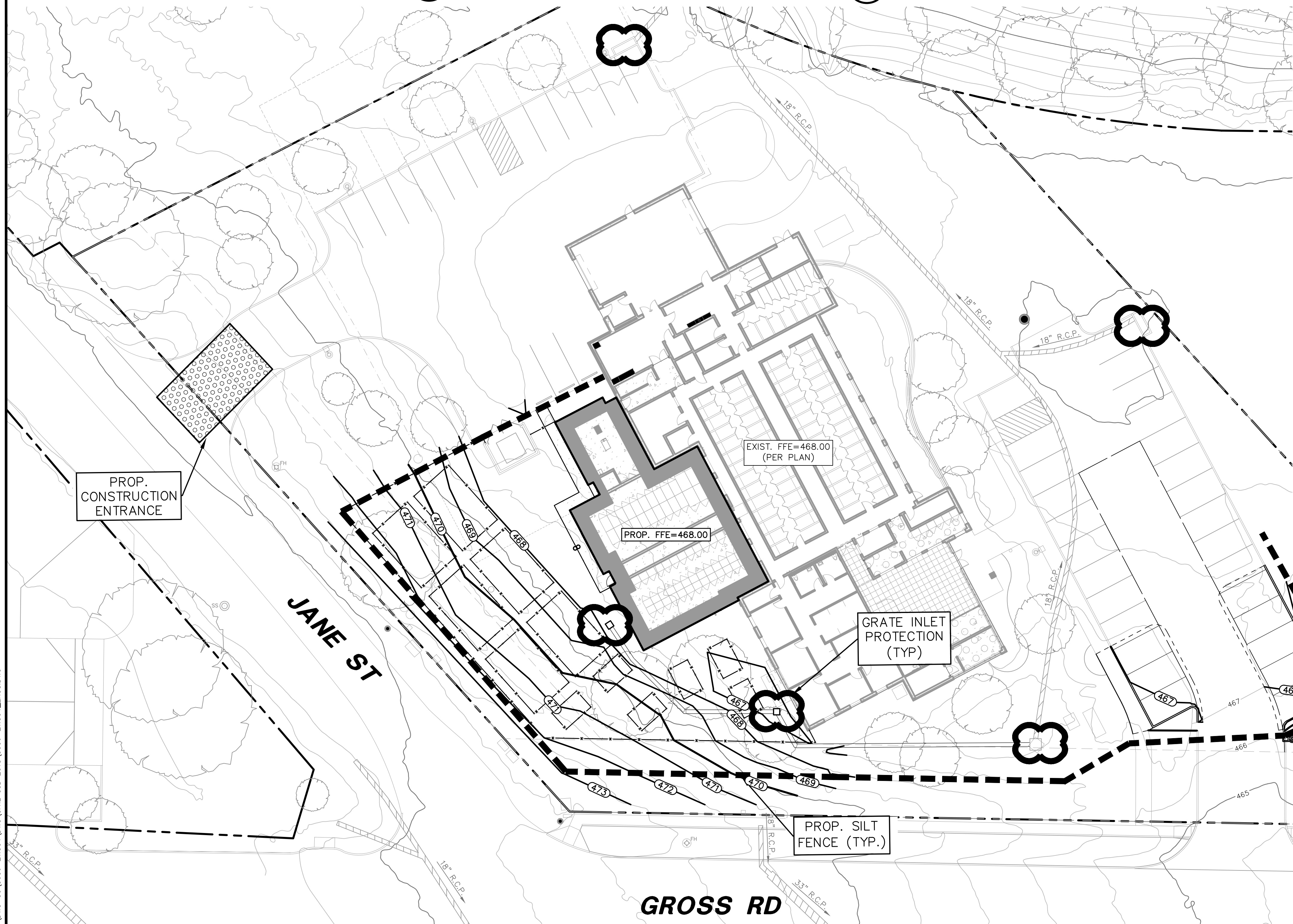
VICINITY MAP
(NOT TO SCALE)

NOTE: IMPROVEMENTS SHOWN ARE APPROXIMATE AND ARE A COMBINATION OF LIDAR, VISUAL, AND AS-BUILT PROVIDED BY THE OWNER. CONTRACTOR TO FIELD VERIFY PRIOR TO CONSTRUCTION.

LEGEND

- BOLLARD
- ELECTRIC METER
- POWER POLE
- LIGHT STANDARD
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE
- FIRE HYDRANT
- CLEANOUT
- MANHOLE
- TRAFFIC SIGNAL CONTROL
- TRAFFIC SIGNAL POLE
- TELEPHONE BOX
- FLOOD LIGHT
- FLAG POLE
- TRAFFIC SIGN
- 1/2-INCH IRON ROD
- W/PACHICO KOCH" CAP SET
- CONTROLLING MONUMENT
- PROPERTY LINE
- FENCE
- OVERHEAD UTILITY LINE
- EXIST. CONTOUR
- PROPOSED CONTOUR
- PROPOSED DRAINAGE FLOW DIRECTION
- PROPOSED CONSTRUCTION ENTRANCE
- INLET PROTECTION
- SILT FENCE (LIMITS OF DISTURBED AREA)
- CHECK DAM

GRAPHIC SCALE IN FEET
0 10 20 40 60



POLLUTION CONTROL GENERAL NOTES

- THIS PLAN HAS BEEN PREPARED TO PROVIDE MEANS TO PREVENT OR MINIMIZE POLLUTION OF STORM WATER.
- THE CONSTRUCTION ACTIVITY INCLUDED IN THIS PLAN WILL INCLUDE:
 - CLEARING AND GRUBBING
 - ROUGH GRADING
 - FINAL GRADING
 - UTILITY INSTALLATION
 - PAVEMENT INSTALLATION
 - BUILDING CONSTRUCTION
- THE TOTAL ESTIMATED LAND AREA TO BE DISTURBED IS 0.50 ACRES.
- THE ESTIMATED RUNOFF COEFFICIENT UPON COMPLETION OF THE PROJECT IS 0.9.
- THE STORM WATER EXITING THE SITE IS COLLECTED IN AN EXISTING DRAINAGE SYSTEM MAINTAINED BY THE CITY OF MESQUITE, TEXAS.
- THE SOILS ON THE SITE ARE GENERALLY EXPANSIVE CLAYS.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN EROSION PROTECTION AROUND THE WORK AREA PERIMETER AND AT ALL INLET MOUTHS PRIOR TO COMMENCING WORK AND UNTIL THE WORK AREA HAS BEEN STABILIZED.
- THE CONTRACTOR WILL REMOVE ALL EXCESS SOIL FROM CONSTRUCTION VEHICLES PRIOR TO EXITING THE SITE.
- ALL DISTURBED AREAS WHICH WILL NOT BE RE-DISTURBED MUST BE STABILIZED IMMEDIATELY BY THE CONTRACTOR TO CONTROL EROSION. THE CONTRACTOR HAS 14 DAYS TO HAVE ALL STABILIZATION AND EROSION CONTROL DEVICES IN PLACE.
- THE CONTRACTOR SHALL UNDERTAKE PROPER METHODS TO REDUCE DUST GENERATION FROM THE SITE.
- THE CONTRACTOR MUST COMPLY WITH FEDERAL, STATE AND LOCAL REGULATIONS REGARDING SEDIMENT AND EROSION CONTROL.
- A COPY OF THIS PLAN, AS PART OF THE SWPPP, MUST BE KEPT AT THE CONSTRUCTION FACILITY DURING THE ENTIRE CONSTRUCTION PERIOD.
- CONSTRUCTION SEQUENCING MUST PROVIDE FOR THE EXCAVATION OF AN ON-SITE BASIN AS A SEDIMENT COLLECTION BASIN PRIOR TO THE DISTURBANCE OF GREATER THAN 10 ACRES OF LAND.
- ALL FINISHED GRADES ARE TO BE HYDROMULCHED, SPOT SODDED OR SEEDED AND WATERED UNTIL GROWTH IS ESTABLISHED ON AND OFF-SITE.
- A PIT OR WASH OUT BASIN SHALL BE CONSTRUCTED ON-SITE BY THE CONTRACTOR FOR THE "WASH OUT" OF CONCRETE TRUCKS.
- A BERM OR OTHER SPILL PROTECTION MEASURE SHALL BE USED FOR ANY TEMPORARY FUEL STORAGE TANK ON-SITE.
- IF "SUMP" PUMPS ARE USED TO REMOVE WATER FROM EXCAVATED AREAS, FILTER THE DISCHARGE TO REMOVE SEDIMENT AND OTHER POLLUTANTS BEFORE THE WATER LEAVES THE SITE.
- TO PREVENT DAMAGE TO VEGETATION IN DOWNSTREAM WATER COURSES, LIMIT ANY PROPOSED LIME STABILIZATION OPERATIONS TO THAT WHICH CAN BE MIXED AND COMPACTED BY THE END OF EACH WORK DAY. GEOTEXTILE FABRIC IS NOT EFFECTIVE IN FILTERING LIME SIZE IS SMALLER THAN THE OPENING IN THE FABRIC.
- VEHICLE PARKING AREAS, STAGING AREAS, STOCKPILES, SPOILS, ETC. SHALL BE LOCATED SUCH THAT THEY WILL NOT ADVERSELY AFFECT STORM WATER QUALITY. OTHERWISE, COVERING OR ENCRICLING THE AREAS WITH PROTECTIVE MEASURES SHALL BE NECESSARY.
- STORE ALL TRASH AND BUILDING MATERIALS WASTE IN AN ENCLOSURE UNTIL IT CAN BE PROPERLY DISPOSED OF AT THE APPROPRIATE OFF-SITE FACILITIES.
- TRACKING OF SEDIMENT OFF-SITE BY TRUCK TRAFFIC SHALL BE HANDLED THROUGH REGULAR CLEANING.
- INSPECTIONS SHALL BE CONDUCTED BY THE PERMITEE ONCE EVERY TWO WEEKS AND WITHIN 24 HOURS AFTER STORM EVENT OF 0.5 INCHES OR MORE OR ONCE PER WEEK ON A SPECIFIC PRE-DEFINED DAY. THE INSPECTIONS WILL INCLUDE:
 - DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN STABILIZED.
 - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
 - STRUCTURAL CONTROL MEASURES
 - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
 - IDENTIFICATIONS OF MEASURES THAT NEED TO BE MAINTAINED, MODIFIED, OR ADDED TO CORRECT PROBLEMS.
- CONTRACTOR SHALL MINIMIZE THE EXPOSURE OF BUILDING MATERIALS, BUILDING PRODUCTS, CONSTRUCTION WASTES, TRASH, LANDSCAPE MATERIALS, FERTILIZERS, PESTICIDES, HERBICIDES, DETERGENTS, SANITARY WASTE AND OTHER MATERIALS PRESENT ON THE SITE TO PRECIPITATION AND TO STORMWATER.
- PERMANENTLY STABILIZE EXPOSED SOIL, WITHIN AND ADJACENT TO THE SITE, THAT IS DISTURBED BY VEHICLES, GRADING AND OTHER CONSTRUCTION ACTIVITIES.
- CONTAIN ALL RUNOFF FROM MATERIAL USED IN SUBGRADE STABILIZATION.
- MATERIAL STOCKPILES SHALL BE COVERED BY PLASTIC OR SURROUNDED BY EROSION CONTROL STRUCTURES TO CONTROL SEDIMENT RELEASES.
- CONTRACTOR SHALL PROTECT SLOPES IN EXCESS OF 15% IN ORDER TO MINIMIZE EROSION OF SOILS AND THE DISTURBANCE OF SLOPES.
- VEGETATION TO BE PRESERVED WHERE EVER POSSIBLE TO HELP REDUCE EROSION. WHERE VEGETATION MUST BE REMOVED, PRESERVE NATIVE TOPSOIL IN ALL AREAS POSSIBLE.
- MINIMIZE SOIL COMPACTION IN AREAS INTENDED FOR POST CONSTRUCTION PERVIOUS SURFACE.

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7557 RAMBLER ROAD SUITE 1400
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EROSION CONTROL PLAN & DETAILS

MESQUITE ANIMAL SHELTER & ADOPTION CENTER FACILITY EXPANSION

CITY OF MESQUITE, DALLAS COUNTY, TEXAS

DESIGN	DRAWN	DATE	SCALE	NOTES	FILE	NO.
TBB	JBG	FEB 2022	1"=20'			C7.1

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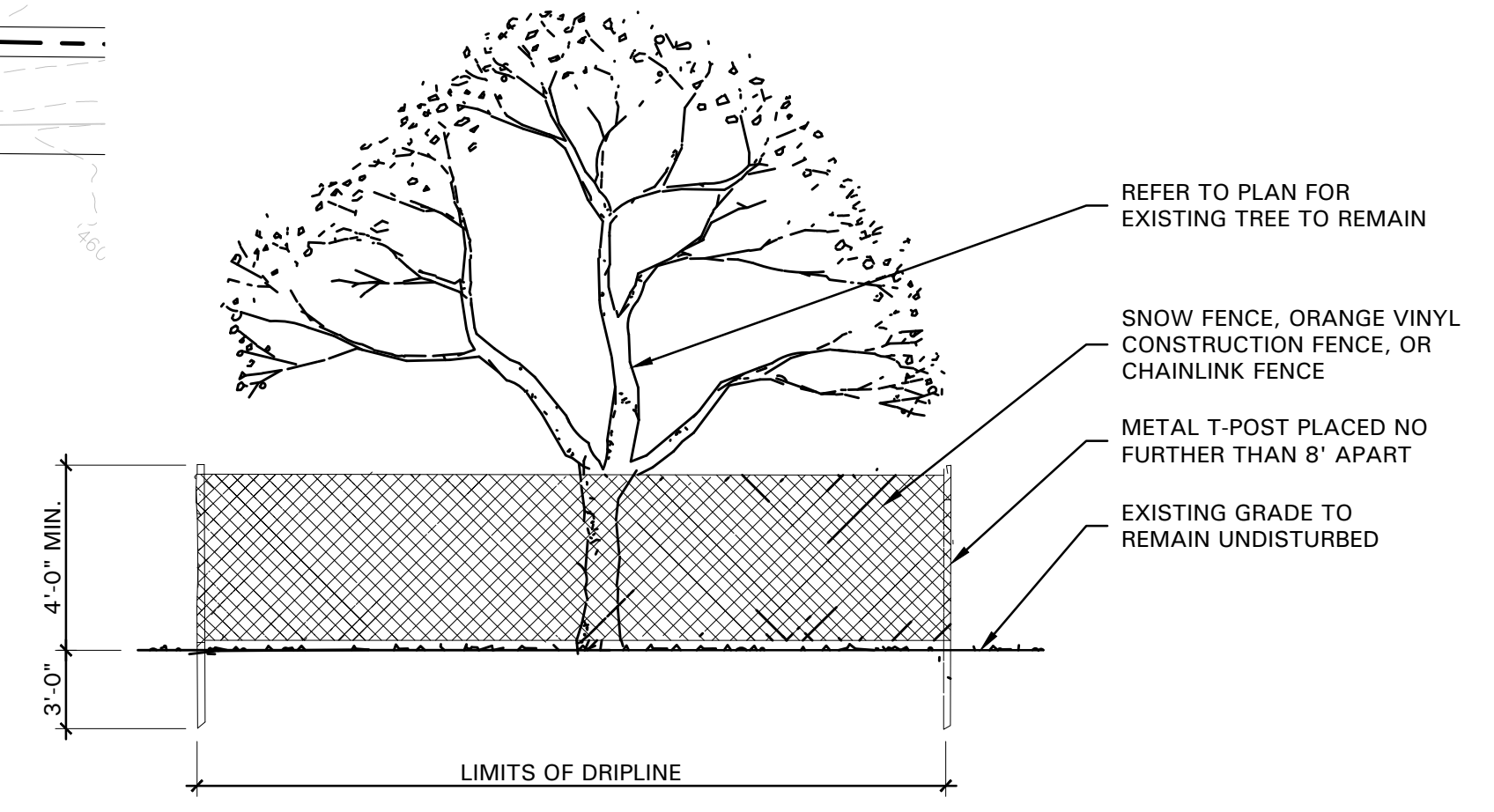
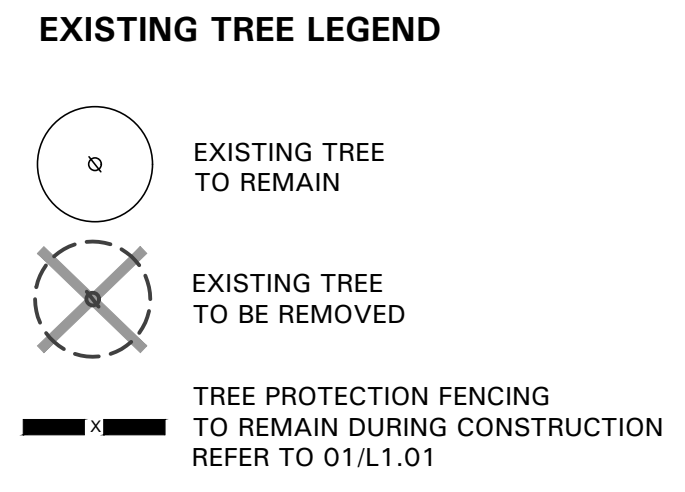
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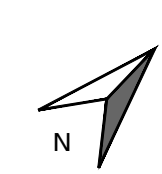


TREE SURVEY FIELD DATA				
No.	Dia. (inches)	Species (common name)	Status	Remarks
1		TREE	TO REMAIN	
2		TREE	TO REMAIN	
3		TREE	TO REMAIN	
4		TREE	TO REMAIN	
5		TREE	TO REMAIN	
6		TREE	TO REMAIN	
7		TREE	TO REMAIN	
8		TREE	TO REMAIN	
9		TREE	TO REMAIN	
10		TREE	TO REMAIN	
11		TREE	TO REMAIN	
12		TREE	TO REMAIN	
13		TREE	TO REMAIN	
14		TREE	TO REMAIN	
15		TREE	TO BE REMOVED	
16		TREE	TO BE REMOVED	
17		TREE	TO REMAIN	
18		TREE	TO REMAIN	
19		TREE	TO REMAIN	
20		TREE	TO BE REMOVED	
21		TREE	TO BE REMOVED	
22		TREE	TO BE REMOVED	
23		TREE	TO REMAIN	

- TREE PRESERVATION NOTES**
- EXISTING TREES TO REMAIN SHALL BE PROTECTED DURING CONSTRUCTION FROM TREE STRUCTURE DAMAGE AND COMPACTION OF SOIL UNDER AND AROUND DRIP LINE (CANOPY) OF TREE.
 - IF ANY ROOT STRUCTURE IS DAMAGED DURING ADJACENT EXCAVATION / CONSTRUCTION, NOTIFY OWNER'S AUTHORIZED REPRESENTATIVE IMMEDIATELY. IT IS RECOMMENDED THAT A LICENSED ARBORIST BE SECURED FOR THE TREATMENT OF ANY POSSIBLE TREE WOUNDS.
 - NO DISTURBANCE OF THE SOIL GREATER THAN 4" SHALL BE LOCATED CLOSER TO THE TREE TRUNK THAN 1/2 THE DISTANCE OF THE DRIP LINE TO THE TREE TRUNK. A MINIMUM OF 75% OF THE DRIP LINE AND ROOT ZONE SHALL BE PRESERVED AT NATURAL GRADE.
 - ANY FINE GRADING DONE WITHIN THE CRITICAL ROOT ZONES OF THE PROTECTED TREES MUST BE DONE WITH LIGHT MACHINERY SUCH AS A BOBCAT OR LIGHT TRACTOR. NO EARTH MOVING EQUIPMENT WITH TRACKS IS ALLOWED WITHIN THE CRITICAL ROOT ZONE OF THE TREES.
 - NO MATERIALS INTENDED FOR USE IN CONSTRUCTION OR WASTE MATERIALS ACCUMULATED DUE TO EXCAVATION OR DEMOLITION SHALL BE PLACED WITHIN THE LIMITS OF THE DRIP LINE OF ANY TREE.
 - NO EQUIPMENT MAY BE CLEANED OR TOXIC SOLUTIONS, OR OTHER LIQUID CHEMICALS, SHALL BE DEPOSITED WITHIN THE LIMITS OF THE DRIP LINE OF A TREE, INCLUDING BUT NOT LIMITED TO: PAINT, OIL, SOLVENTS, ASPHALT, CONCRETE, MORTAR, PRIMERS, ETC.
 - NO SIGNS, WIRES OR OTHER ATTACHMENTS, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
 - NO VEHICULAR / CONSTRUCTION EQUIPMENT TRAFFIC OR PARKING IS ALLOWED WITHIN THE LIMITS OF THE DRIP LINE OF TREES.
 - BORING OF UTILITIES MAY BE PERMITTED UNDER PROTECTED TREES IN CERTAIN CIRCUMSTANCES. THE MINIMUM LENGTH OF THE BORE SHALL BE THE WIDTH OF THE TREE'S CANOPY AND SHALL BE A MINIMUM DEPTH OF FORTY-EIGHT (48") INCHES.
 - IRRIGATION TRENCHING WHICH MUST BE DONE WITHIN THE CRITICAL ROOT ZONE OF A TREE SHALL BE DUG BY HAND AND ENTER THE AREA IN A RADIAL MANNER.
 - ALL TREES TO BE REMOVED FROM THE SITE SHALL BE FLAGGED BY THE CONTRACTOR WITH BRIGHT RED VINYL TAPE (3" WIDTH) WRAPPED AROUND THE MAIN TRUNK AT A HEIGHT OF FOUR (4') FEET ABOVE GRADE. FLAGGING SHALL BE APPROVED BY OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO ANY TREE REMOVAL. CONTRACTOR SHALL CONTACT OWNER'S AUTHORIZED REPRESENTATIVE WITH 72 HOURS NOTICE TO SCHEDULE ON-SITE MEETING.
 - ALL TREES TO REMAIN, AS NOTED ON DRAWINGS, SHALL HAVE PROTECTIVE FENCING LOCATED AT THE TREE'S DRIP LINE. THE PROTECTIVE FENCING MAY BE COMPOSED OF SNOW FENCING, ORANGE VINYL CONSTRUCTION FENCING, CHAIN LINK FENCE, OR OTHER SIMILAR FENCING WITH A FOUR (4') FOOT APPROXIMATE HEIGHT. THE PROTECTIVE FENCING SHALL BE LOCATED AS INDICATED ON THE TREE PROTECTION DETAIL.
 - WHEN A LOW HANGING LIMB IS BROKEN DURING THE COURSE OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AUTHORIZED REPRESENTATIVE IMMEDIATELY. UNDER NO CIRCUMSTANCE SHALL THE CONTRACTOR PRUNE ANY PORTION OF THE DAMAGED TREE WITHOUT THE PRIOR APPROVAL BY THE OWNER'S AUTHORIZED REPRESENTATIVE.



01 TREE PROTECTIVE FENCING
NOT TO SCALE



SCALE: 1" = 20'-0"
0 10 20 40



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Suite 501
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CITY OF MESQUITE ANIMAL SHELTER
1650 GROSS RD
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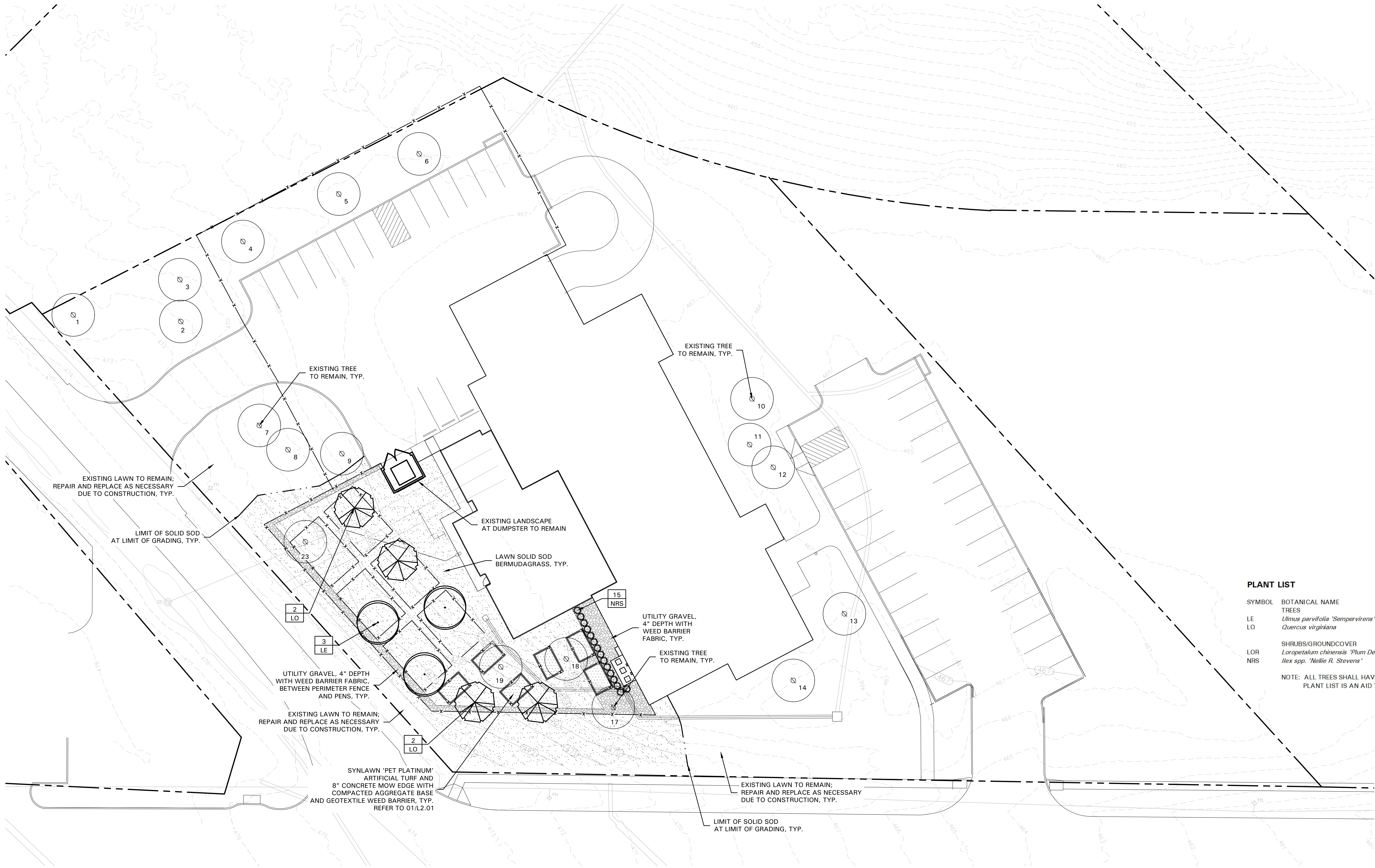
02/11/22

Revisions:

REV.	DATE	TITLE

Date: CONSTRUCTION DOCUMENTS 02.11.22
Project No. 2942
Drawn By: KAH
Checked By: KAH
Sheet Title: TREE PRESERVATION PLAN
Drawing No.

L1.01



PLANT LIST

SYMBOL	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
TREES					
LE	<i>Ulmus parvifolia 'Sempervirens'</i>	Lacebark Elm	3	6" cal.	container grown, 12" ht., 4' spread, 4' branching ht., matching
LO	<i>Quercus virginiana</i>	Live Oak	5	6" cal.	container grown, 12" ht., 4' spread, 4' branching ht., matching
SHRUBS/GROUND COVER					
LOR	<i>Loropetalum chinensis 'Plum Delight'</i>	Loropetalum 'Plum Delight'	22	5 gal.	container full, 18" spread, 24" o.c.
NRS	<i>Ilex spp. 'Nellie R. Stevens'</i>	Nellie R. Stevens Holly	17	7 gal.	container full to base, 36" ht., 36" o.c.

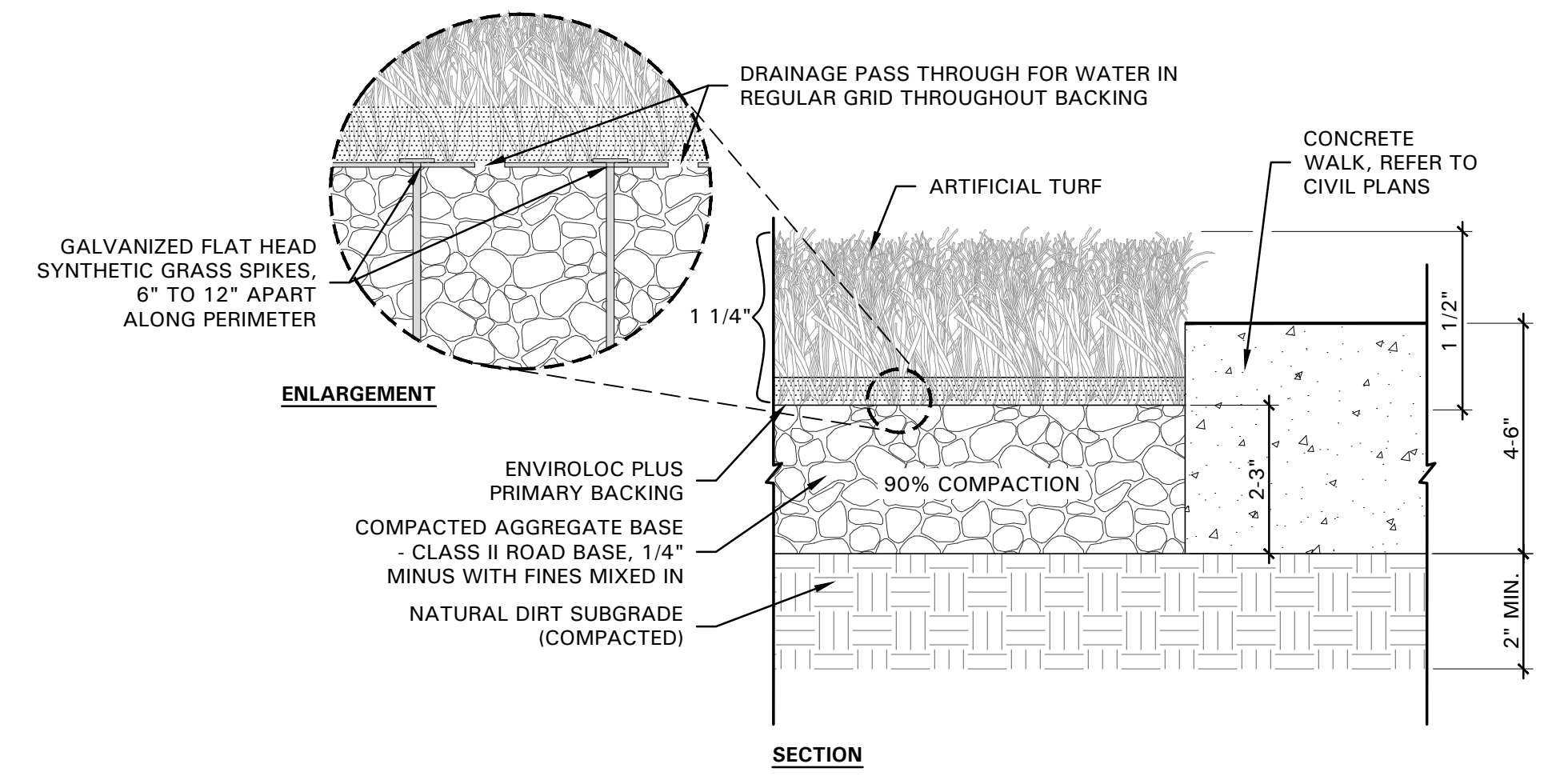
NOTE: ALL TREES SHALL HAVE STRAIGHT TRUNKS AND BE MATCHING WITHIN VARIETIES.
PLANT LIST IS AN AID TO BIDDERS ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES ON PLAN.

LANDSCAPE NOTES

- CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. SURVEY DATA OF EXISTING CONDITIONS WAS SUPPLIED BY OTHERS.
- CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY LANDSCAPE ARCHITECT OF ANY CONFLICTS. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF UNDERGROUND UTILITIES.
- CONTRACTOR SHALL PROVIDE A MINIMUM 2% SLOPE AWAY FROM ALL STRUCTURES.
- CONTRACTOR SHALL FINE GRADE AREAS TO ACHIEVE FINAL CONTOURS AS INDICATED. LEAVE AREAS TO RECEIVE TOPSOIL 3" BELOW FINAL FINISHED GRADE IN PLANTING AREAS AND 1" BELOW FINAL FINISHED GRADE IN LAWN AREAS.
- ALL PLANTING BEDS AND LAWN AREAS SHALL BE SEPARATED BY STEEL EDGING. NO STEEL EDGING SHALL BE INSTALLED ADJACENT TO BUILDINGS, WALKS, OR CURBS. CUT STEEL EDGING AT 45 DEGREE ANGLE WHERE IT INTERSECTS WALKS AND CURBS.
- TOP OF MULCH SHALL BE 1/2" MINIMUM BELOW THE TOP OF WALKS AND CURBS.
- ALL LAWN AREAS SHALL BE SOLID SOD BERMUDAGRASS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- ALL REQUIRED LANDSCAPE AREAS SHALL BE PROVIDED WITH AN AUTOMATIC UNDERGROUND IRRIGATION SYSTEM WITH RAIN AND FREEZE SENSORS AND EVAPOTRANSPIRATION (ET) WEATHER-BASED CONTROLLERS AND SAID IRRIGATION SYSTEM SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL AND INSTALLED BY A LICENSED IRRIGATOR.
- CONTRACTOR SHALL PROVIDE BID PROPOSAL LISTING UNIT PRICES FOR ALL MATERIAL PROVIDED.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED LANDSCAPE AND IRRIGATION PERMITS.

MAINTENANCE NOTES

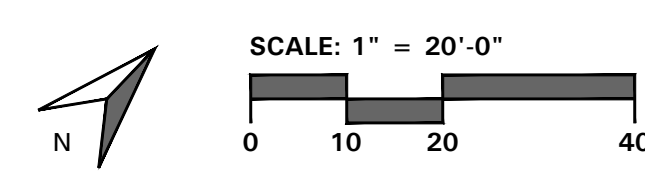
- THE OWNER, TENANT AND THEIR AGENT, IF ANY, SHALL BE JOINTLY AND SEVERALLY RESPONSIBLE FOR THE MAINTENANCE OF ALL LANDSCAPE.
- ALL LANDSCAPE SHALL BE MAINTAINED IN A NEAT AND ORDERLY MANNER AT ALL TIMES. THIS SHALL INCLUDE MOWING, EDGING, PRUNING, FERTILIZING, WATERING, WEEDING AND OTHER SUCH ACTIVITIES COMMON TO LANDSCAPE MAINTENANCE.
- ALL LANDSCAPE AREAS SHALL BE KEPT FREE OF TRASH, LITTER, WEEDS AND OTHER SUCH MATERIAL OR PLANTS NOT PART OF THIS PLAN.
- ALL PLANT MATERIAL SHALL BE MAINTAINED IN A HEALTHY AND GROWING CONDITION AS IS APPROPRIATE FOR THE SEASON OF THE YEAR.
- ALL PLANT MATERIAL WHICH DIES SHALL BE REPLACED WITH PLANT MATERIAL OF EQUAL OR BETTER VALUE.
- CONTRACTOR SHALL PROVIDE SEPARATE BID PROPOSAL FOR ONE YEAR'S MAINTENANCE TO BEGIN AFTER FINAL ACCEPTANCE.



ARTIFICIAL TURF NOTES

- ARTIFICIAL TURF SHALL BE: SYNLAWN 'PET PLATINUM'
- AVAILABLE FROM: SYNLAWN DALLAS 214-909-0767
- THE GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION. SEAMS SHOULD BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH, NOT ADHESIVE TAPE.
- CONTRACTOR SHALL PROVIDE TURN-KEY INSTALLATION OF ARTIFICIAL TURF INCLUDING BUT NOT LIMITED TO SHIPMENT, HANDLING, ASSEMBLY, PLACEMENT, INSTALLATION, ETC.
- CONTRACTOR SHALL COORDINATE SHIPPING AND ORDER PLACEMENT WITH PROPOSED CONSTRUCTION SCHEDULE. ALLOW FOR 10-12 WEEKS FROM ORDER PLACEMENT TO SHIPMENT TO SITE.

01 ARTIFICIAL TURF
SCALE: 3" = 1'-0"



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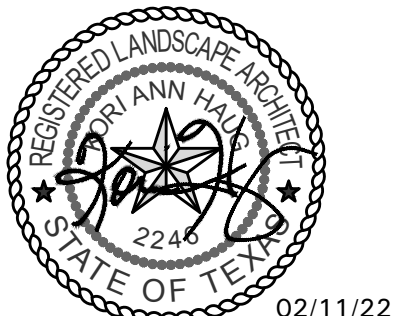
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Revisions:

REV.	DATE	TITLE

Date: CONSTRUCTION DOCUMENTS 02/11/22
Project No. 2942
Drawn By: KAH
Checked By: KAH
Sheet Title: LANDSCAPE PLAN
Drawing No.

L2.01

SECTION 32 9300 - LANDSCAPE

PART 1 - GENERAL

1.1 REFERENCED DOCUMENTS

- A. Refer to Landscape Plans, notes, details, bidding requirements, special provisions, and schedules for additional requirements.

1.2 DESCRIPTION OF WORK

- A. Work included: Furnish all supervision, labor, materials, services, equipment and appliances required to complete the work covered in conjunction with the landscaping covered in these specifications and landscaping plans, including:
 1. Planting (trees, shrubs and grasses)
 2. Bed preparation and fertilization
 3. Notification of sources
 4. Water and maintenance until final acceptance
 5. Guarantee

1.3 REFERENCE STANDARDS

- A. American Standard for Nursery Stock published by American Association of Nurserymen: April 14, 2014 Edition; by American National Standards Institute, Inc. (Z60.1) - plant material
- B. American Joint Committee on Horticultural Nomenclature: 1942 Edition of Standardized Plant Names.
- C. Texas Association of Nurserymen, Grades and Standards
- D. Horris Third, 1976 - Cornell University

1.4 NOTIFICATION OF SOURCES AND SUBMITTALS

- A. Samples: Provide representative quantities of sandy loam soil, mulch, bed mix material, gravel, crushed stone, steel edging and tree stakes. Samples shall be approved by Owner's Authorized Representative before use on the project.

1.5 JOB CONDITIONS

- A. General Contractor to complete the following punch list: Prior to Landscape Contractor initiating any portion of landscape installation, General Contractor shall leave planting bed areas three (3") inches below final finish grade of sidewalks, drives and curbs as shown on the drawings. All lawn areas to receive solid sod shall be left one (1") inch below the final finish grade of sidewalks, drives and curbs. All construction debris shall be removed prior to Landscape Contractor beginning any work.
- B. Storage of materials and equipment at the job site will be at the risk of the Landscape Contractor. The Owner cannot be held responsible for theft or damage.

1.6 MAINTENANCE AND GUARANTEE

- A. Maintenance:
 1. The Landscape Contractor shall be held responsible for the maintenance of all work from the time of planting until final acceptance by the Owner. No trees, shrubs, groundcover or grass will be accepted unless they show healthy growth and satisfactory foliage conditions.
 2. Maintenance shall include watering of trees and plants, cultivation, weeding, spraying, edging, pruning of trees, mowing of grass, cleaning up and all other work necessary of maintenance.
 3. A written notice requesting final inspection and acceptance should be submitted to the Owner at least seven (7) days prior to completion. An on-site inspection by the Owner's Authorized Representative will be completed prior to written acceptance.
- B. Guarantee:

- 1. Trees, shrubs and groundcover shall be guaranteed for a twelve (12) month period after final acceptance. The Contractor shall replace all dead materials as soon as weather permits and upon notification of the Owner. Plants, including trees, which have partially died to the base, size, or symmetry have been damaged, shall be considered subject to replacement. In such cases, the opinion of the Owner shall be final.
 - a. Plants used for replacement shall be of the same size and kind as those originally planted and shall be planted as originally specified. All work, including materials, labor and equipment used in replacements, shall carry a twelve (12) month guarantee. Any damage, including ruts in lawn or bed areas, incurred as a result of making replacements shall be immediately repaired.
 - b. At the direction of the Owner, plants may be replaced at the start of the next year's planting season. In such cases, dead plants shall be removed from the premises immediately.
 - c. When plant replacements are made, plants, soil mix, fertilizer and mulch are to be utilized as originally specified and re-inspected for full compliance with the contract requirements. All replacements are to be included under "Work" of this section.
- 2. The Owner agrees that for the guarantee to be effective, he will water plants at least twice a week during dry periods and cultivate beds once a month after final acceptance.
- 3. The above guarantee shall not apply where plants die after acceptance because of injury from storms, hail, freeze, insects, diseases, injury by humans, machines or theft.
- 4. Acceptance for all landscape work shall be given after final inspection by the Owner provided the job is in a complete, undamaged condition and there is a stand of grass in all lawn areas. At that time, the Owner will assume maintenance on the accepted work.

- C. Repairs: Any necessary repairs under the Guarantee must be made within ten (10) days after receiving notice, weather permitting. In the event the Landscape Contractor does not make repairs accordingly, the Owner, without further notice to Contractor, may provide materials and men to make such repairs at the expense to the Landscape Contractor.

1.7 QUALITY ASSURANCE

- A. General: Comply with applicable federal, state, county and local regulations governing landscape materials and work.
- B. Personnel: Employ only experienced personnel who are familiar with the required work. Provide full time supervision by a qualified foreman acceptable to Landscape Architect.
- C. Selection of Plant Material:
 1. Main contract with suppliers immediately upon obtaining notice of contract acceptance to select and book materials. Develop a program of maintenance (pruning and fertilization) which will ensure the purchased materials will meet and / or exceed project specifications.
 2. Substitutions: Do not make plant material substitutions. If the specified landscape material is not obtainable, submit proof of non-availability to Landscape Architect, together with proposal for use of equivalent material. At the time bids are submitted, the Contractor is assumed to have located the materials necessary to complete the job as specified.
 3. Landscape Architect will provide a key identifying each tree location on site. Written verification will be required to document material selection, source and delivery schedules to site.
 4. Measurements: Measure trees with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements six inches above ground for trees up to and including 4" caliper size, and twelve inches above ground for larger sizes. Measure main body of all plant material of height and spread dimensions.

do not measure from branch or root tip-to-tip.

- 5. Owner's Authorized Representative shall inspect all plant material with requirements for genus, species, cultivar / variety size and quality.
- 6. Owner's Authorized Representative retains the right to further inspect all plant material upon arrival to the site and during installation for size and condition of root balls and root systems, limbs, branching habit, insects, injuries and latent defects.
- 7. Owner's Authorized Representative may reject unsatisfactory or defective material at any time during the process work. Remove rejected materials immediately from the site and replace with acceptable material at no additional cost to the Owner. Plants damaged in transit or at job site shall be rejected.

1.8 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Preparation:
 1. Balled and Burlapped (B&B) Plants: Dig and prepare shipment in a manner that will not damage roots, branches, shape and future development.
 2. Container Grown Plants: Deliver plants in rigid container to hold ball shape and protect root mass.
- B. Delivery:
 1. Deliver packaged materials in sealed containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored on site.
 2. Deliver only plant materials that can be planted in one day unless adequate storage and watering facilities are available on job site.
 3. Protect root balls by heeling in with sawdust or other approved moisture retaining material if not planted within 24 hours of delivery.
 4. Protect plants during delivery to prevent damage to root balls or desiccation of leaves. Keep plants moist at all times. Cover all materials during transport.
 5. Notify Owner's Authorized Representative of delivery schedule 72 hours in advance job site.
 6. Remove rejected plant material immediately from job site.
 7. To avoid damage or stress, do not lift, move, adjust to plumb, or otherwise manipulate plants by trunk or stems.

1.9 QUALITY ASSURANCE

- A. General: Comply with applicable federal, state, county and local regulations governing landscape materials and work.
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 4. Measurements: Measure trees with branches and trunks or canes in their normal position. Do not prune to obtain required sizes. Take caliper measurements six inches above ground for trees up to and including 4" caliper size, and twelve inches above ground for larger sizes. Measure main body of all plant material of height and spread dimensions.

PART 2 - PRODUCTS

2.1 PLANTS

- A. General: Well-formed No. 1 grade or better nursery grown stock. Listed plant heights are from tops of root balls to nominal tops of plants. Plant spread refers to nominal outer width of the plant, not to the outer leaf tips. Plants will be individually approved by the Owner's Authorized Representative and his decision as to their acceptability shall be final.
- B. Quantities: The drawings and specifications are complementary. Anything called for on one and not the other is as binding as if shown and called for on both. The plant schedule is an aid to bidders only. Confirm all quantities on plan.
- C. Quality and size: Plant materials shall conform to the size given on the plan, and shall be healthy, symmetrical, well-shaped, full branched and well rooted. The plants shall be free from injurious insects, diseases, injuries to the bark or roots, broken branches, objectionable disfigurements, insect eggs and larvae, and are to be of specimen quality.
- D. Approval: All plants which are found unsuitable in growth, or are in any unhealthy, badly shaped or undersized condition will be rejected by the Owner's Authorized Representative either before or after planting and shall be removed at the expense of the Landscape Contractor and replaced with acceptable plant as specified at no additional cost to the Owner.

specified at no additional cost to the Owner.

- E. Trees shall be healthy, full-branched, well-shaped, and shall meet the minimum trunk and diameter requirements of the plant schedule. Balls shall be firm, neat, slightly tapered and well wrapped in burlap. Any tree loose in the ball or with a broken root ball at time of planting will be rejected. Balls shall be ten (10") inches in diameter for each one (1") inch of trunk diameter, measured six (6") inches above ball. (Nomenclature confirms to the customary nursery usage. For clarification, the term "multi-trunk" defines a plant having three (3) or more trunks of nearly equal diameter.)
- F. Pruning: All pruning of trees and shrubs, as directed by the Landscape Architect prior to final acceptance, shall be executed by the Landscape Contractor at no additional cost to the Owner.

2.2 SOIL PREPARATION MATERIALS

- A. Sandy Loam:
 1. Friable, fertile, dark, loamy soil, free of clay lumps, subsoil, stones and other extraneous material and reasonably free of weeds and foreign grasses. Loam containing Dallasgrass or Nutgrass shall be rejected.
 2. Physical properties as follows:
 - a. Clay - between 7-27 percent
 - b. Silt - between 15-25 percent
 - c. Sand - less than 52 percent
 3. Organic matter shall be 3%-10% of total dry weight.
 4. If requested, Landscape Contractor shall provide a certified soil analysis conducted by an approved soil testing laboratory verifying that sandy loam meets the above requirements.
- B. Organic Material: Compost with a mixture of 80% vegetative matter and 20% animal waste. Ingredients should be a mix of coarse and fine textured material.
- C. Premixed Bedding Soil as supplied by Vital Earth Resources, Gladewater, Texas; Professional Bedding Soil as supplied by Living Earth Technology, Dallas, Texas or Acid Gro Municipal Mix as supplied by Soil Building Systems, Dallas, Texas or approved equal.
- D. Sharp Sand: Sharp sand must be free of seeds, soil particles and weeds.
- E. Mulch: Double Shredded Hardwood Mulch, partially decomposed, dark brown. Living Earth Technologies or approved equal.
- F. Organic Fertilizer: Fertilaid, Sustane, or Green Sense or equal as recommended for required applications. Fertilizer shall be delivered to the site in original unopened containers, each bearing the manufacturer's guaranteed statement of analysis.
- G. Commercial Fertilizer: 10-20-10 or similar analysis. Nitrogen source to be a minimum 50% slow release organic Nitrogen (SCU or UP) with a minimum 8% sulfur and 4% iron, plus micronutrients.
- H. Peat: Commercial sphagnum peat moss or partially decomposed shredded pine bark or other approved organic material.

2.3 MISCELLANEOUS MATERIALS

- A. Steel Edging: All steel edging shall be 3/16" thick x 4" deep x 16' long with 6 stakes per section, painted black at the factory as manufactured by The J.D. Russell Company and under its trade name DURAEDEGE Heavy Duty Steel.
- B. Staking Material for Shade Trees: refer to details.
- C. Gravel: Washed native pea gravel, graded 1 inch to 1-1/2 inch.
- D. Filter Fabric: "Mirafir Mirascape" by Mirafir Construction Products available at Lone Star Products, Inc., (469) 523-0444 or approved equal.
- E. River Rock: "Colorado" or native river rock, 2" - 4" dia.

Decomposed Granite: Base material shall consist of a natural material mix of granite aggregate not to exceed 1/8" diameter in size and shall be composed of various stages of decomposed earth base.

PART 3 - EXECUTION

3.1 BED PREPARATION & FERTILIZATION

- A. Landscape Contractor to inspect all existing conditions and report any deficiencies to the Owner.
- B. All planting areas shall be conditioned as follows:
 1. Prepare new planting beds by scraping away existing grass and weeds as necessary. Till existing soil to a depth of six (6") inches prior to placing compost and fertilizer. Apply fertilizer as per Manufacturer's recommendations. Add six (6") inches of compost and till into a depth of six (6") inches of the topsoil. Apply organic fertilizer such as Sustane or Green Sense at the rate of twenty (20) pounds per one thousand (1,000) square feet.
 2. All planting areas shall receive a two (2") inch layer of specified mulch.
 3. Backfill for tree pits shall be as follows: Use existing top soil on site (use imported topsoil as needed) free from large clumps, rocks, debris, caliche, subsoils, etc., placed in nine (9") inch layers and watered in thoroughly.
- C. Grass Areas:
 1. Blocks of sod should be laid joint to joint (staggered joints) after fertilizing the ground first. Roll grass areas to achieve a smooth, even surface. The joints between the blocks of sod should be filled with topsoil where they are evidently gaped open, then watered thoroughly.

3.2 INSTALLATION

- A. Maintenance of plant materials shall begin immediately after each plant is delivered to the site and shall continue until all construction has been satisfactorily accomplished.
- B. Plant materials shall be delivered to the site only after the beds are prepared and areas are ready for planting. All shipments of nursery materials shall be thoroughly protected from the drying winds during transit. All plants which cannot be planted at once, after delivery to the site, shall be well protected against the possibility of drying by wind and balls of earth of B & B plants shall be kept covered with soil or other acceptable material. All plants remain the property of the Contractor until final acceptance.
- C. Position the trees and shrubs in their intended location as per plan.
- D. Notify the Owner's Authorized Representative for inspection and approval of all positioning of plant materials.
- E. Excavate pits with vertical sides and horizontal bottom. Tree pits shall be large enough to permit handling and planting without injury to balls of earth or roots and shall be of such depth that, when planted and settled, the crown of the plant shall bear the same relationship to the finish grade as it did to soil surface in original place of growth.
- F. Shrub and tree pits shall be no less than twenty-four (24") inches wider than the lateral dimension of the earth ball and six (6") inches deeper than its vertical dimension. Remove and haul from site all rocks and stones over three-quarter (3/4") inch in diameter. Plants should be thoroughly moist before removing containers.
- G. Dig a wide, rough sided hole exactly the same depth as the height of the ball, separately at the surface of the ground. The sides of the hole should be rough and jagged, never slick or glazed.
- H. Percolation Test: Fill the hole with water. If the water level does not percolate within 24 hours, the trees need to move to another location or have drainage added. Install a PVC stand pipe per tree planting detail as approved by the Landscape Architect if the percolation test fails.

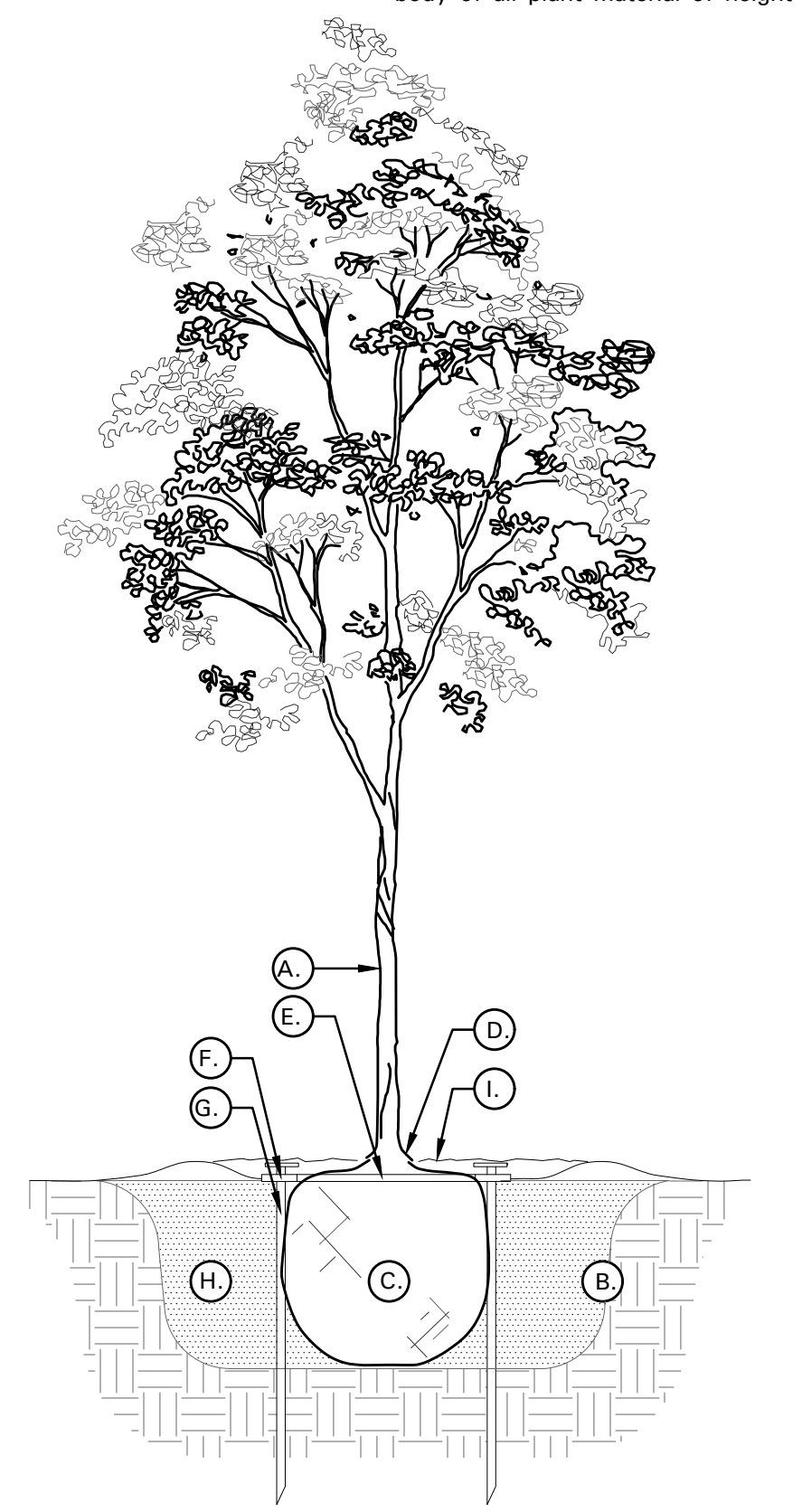
Backfill only with 5 parts existing soil or sandy loam and 1 part bed preparation. When the hole is dug in solid rock, topsoil from the same area should not be used. Carefully settle by watering to prevent air pockets. Remove the burlap from the top 2/3 of the ball, as well as all nylon, plastic string and wire. Container trees will usually be root bound, if so follow standard nursery practice of "root scoring".

- J. Do not wrap trees.
- K. Do not over prune.
- L. Mulch the top of the ball. Do not plant grass all the way to the trunk of the tree. Leave the area above the top of the ball and mulch with at least two (2") inches of specified mulch.
- M. All plant beds and trees to be mulched with a minimum settled thickness of two (2") inches over the entire bed or pit.
- N. Obstruction below ground: In the event that rock, or underground construction work or obstructions are encountered in any plant pit excavation work to be done under this section, alternate locations may be selected by the Owner. Where locations cannot be changed, the obstructions shall be removed to a depth of not less than three (3) feet below grade and no less than six (6") inches below the bottom of ball when plant is properly set at the required grade. The work of this section shall include the removal from the site of such rock or underground obstructions encountered at the cost of the Landscape Contractor.
- O. Trees and large shrubs shall be staked as site conditions require. Position stakes to secure trees against seasonal prevailing winds.
- P. Pruning and Mulching: Pruning shall be directed by the Landscape Architect and shall be pruned in accordance with standard horticultural practice following Fine Pruning, Class 1 pruning standards provided by the National Arborist Association.
 1. Dead wood, suckers, broken and badly bruised branches shall be removed. General tipping of the branches is not permitted. Do not cut terminal branches.
 2. Pruning shall be done with clean, sharp tools.
 3. Immediately after planting operations are completed, all tree pits shall be covered with a layer of organic material two (2") inches in depth. This limit of the organic material for trees shall be the diameter of the plant pit.
- Q. Steel Curbing Installation:
 1. Curbing shall be aligned as indicated on plans. Stake out limits of steel curbing and obtain Owners approval prior to installation.
 2. All steel curbing shall be free of kinks and abrupt bends.
 3. Top of curbing shall be 3/4" maximum height above final finished grade.
 4. Stakes are to be installed on the planting bed side of the curbing, as opposed to the grass side.
 5. Do not install steel edging along sidewalks or curbs.
 6. Cut steel edging at 45 degree angle where edging meets sidewalks or curbs.

3.3 CLEANUP AND ACCEPTANCE

- A. Cleanup: During the work, the premises shall be kept neat and orderly at all times. Storage areas for all materials shall be so organized so that they, too, are neat and orderly. All trash and debris shall be removed from the site as work progresses. Keep paved areas clean by sweeping or hosing them at end of each work day.

END OF SECTION

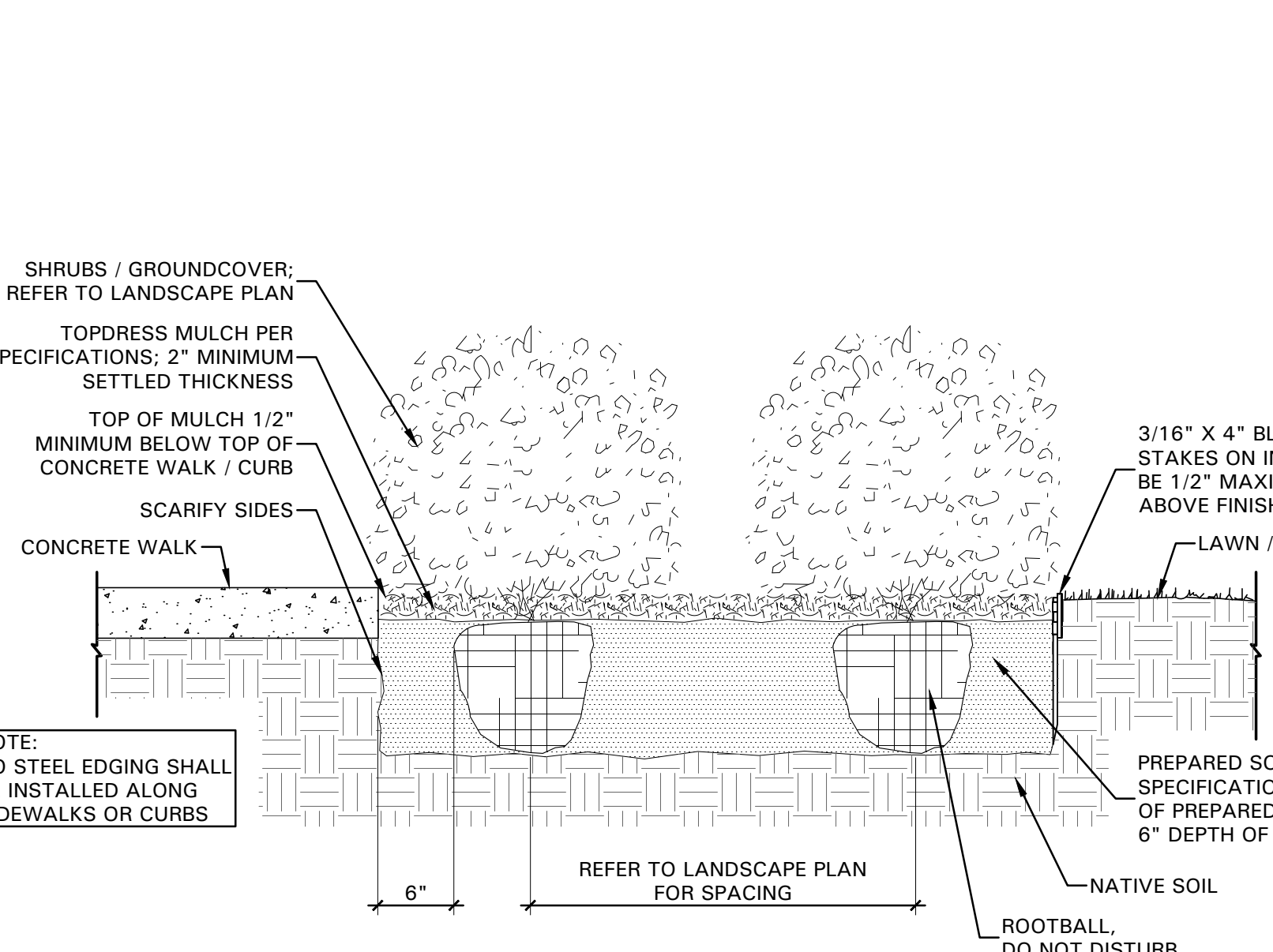


TREE PLANTING DETAIL LEGEND AND NOTES

- A. TREE: TREES SHALL CONFORM WITH LATEST AMERICAN STANDARD FOR NURSERY STOCK. www.anla.org
- B. TREE PIT: WIDTH TO BE AT LEAST TWO (2) TIMES THE DIAMETER OF THE ROOT BALL CENTER TREE IN HOLE & REST ROOT BALL ON UNDISTURBED NATIVE SOIL.
- C. ROOT BALL: REMOVE TOP 2/3 BURLAP AND ANY OTHER FOREIGN OBJECT; CONTAINER GROWN STOCK TO BE INSPECTED FOR GIRDLING ROOTS.
- D. ROOT FLARE: ENSURE THAT ROOT FLARE IS EXPOSED, FREE FROM MULCH, AND AT LEAST TWO INCHES ABOVE GRADE. TREES SHALL BE REJECTED WHEN GIRDLING ROOTS ARE PRESENT & ROOT FLARE IS NOT APPARENT.
- E. ROOTBALL ANCHOR RING: REFER TO MANUFACTURER'S GUIDELINES FOR SIZING. PLACE ROOTBALL ANCHOR RING ON BASE OF ROOTBALL, TRUNK SHOULD BE IN THE CENTER OF THE RING.
- F. ROOT ANCHOR BY TREE STAKE SOLUTIONS.
- G. NAIL STAKE: REFER TO MANUFACTURER'S GUIDELINES FOR SIZING. INSTALL NAIL STAKES WITH HAMMER OR Mallet FIRMLY INTO UNDISTURBED GROUND. DRIVE NAIL STAKES FLUSH WITH "U" BRACKET ADJACENT TO ROOTBALL (DO NOT DISTURB ROOTBALL).
- H. BACKFILL: USE EXISTING NATIVE SOIL (no amendments) WATER THOROUGHLY TO ELIMINATE AIR POCKETS.
- I. MULCH: DOUBLE SHREDDED HARDWOOD MULCH 2" MINIMUM SETTLED THICKNESS, WITH 2" HT. WATERING RING; ENSURE THAT ROOT FLARE IS EXPOSED, BELOW GROUND STAKE SHOULD NOT BE VISIBLE.
- J. TREE STAKES: TREE STAKE SOLUTIONS 'SAFETY STAKE' BELOW GROUND MODEL AVAILABLE FROM: Tree Stake Solutions ATTN: Jeff Tuley (903) 676-6143 jett@treestakesolutions.com www.treestakesolutions.com OR APPROVED EQUAL. TREES SHALL BE STAKED BELOW GROUND WHERE NECESSARY; ABOVE GROUND STAKING IS EXPRESSLY PROHIBITED.
- K. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN A COPY OF THE MANUFACTURER'S SPECIFICATIONS PRIOR TO INSTALLATION OF TREE STAKES. CONTRACTOR SHALL ADHERE TO MANUFACTURER'S INSTALLATION GUIDELINES, SPECIFICATIONS, AND OTHER REQUIREMENTS FOR TREE STAKE INSTALLATION.

01 TREE PLANTING DETAIL
NOT TO SCALE

SHRUB / GROUNDCOVER DETAIL



02 SHRUB / GROUNDCOVER DETAIL
NOT TO SCALE



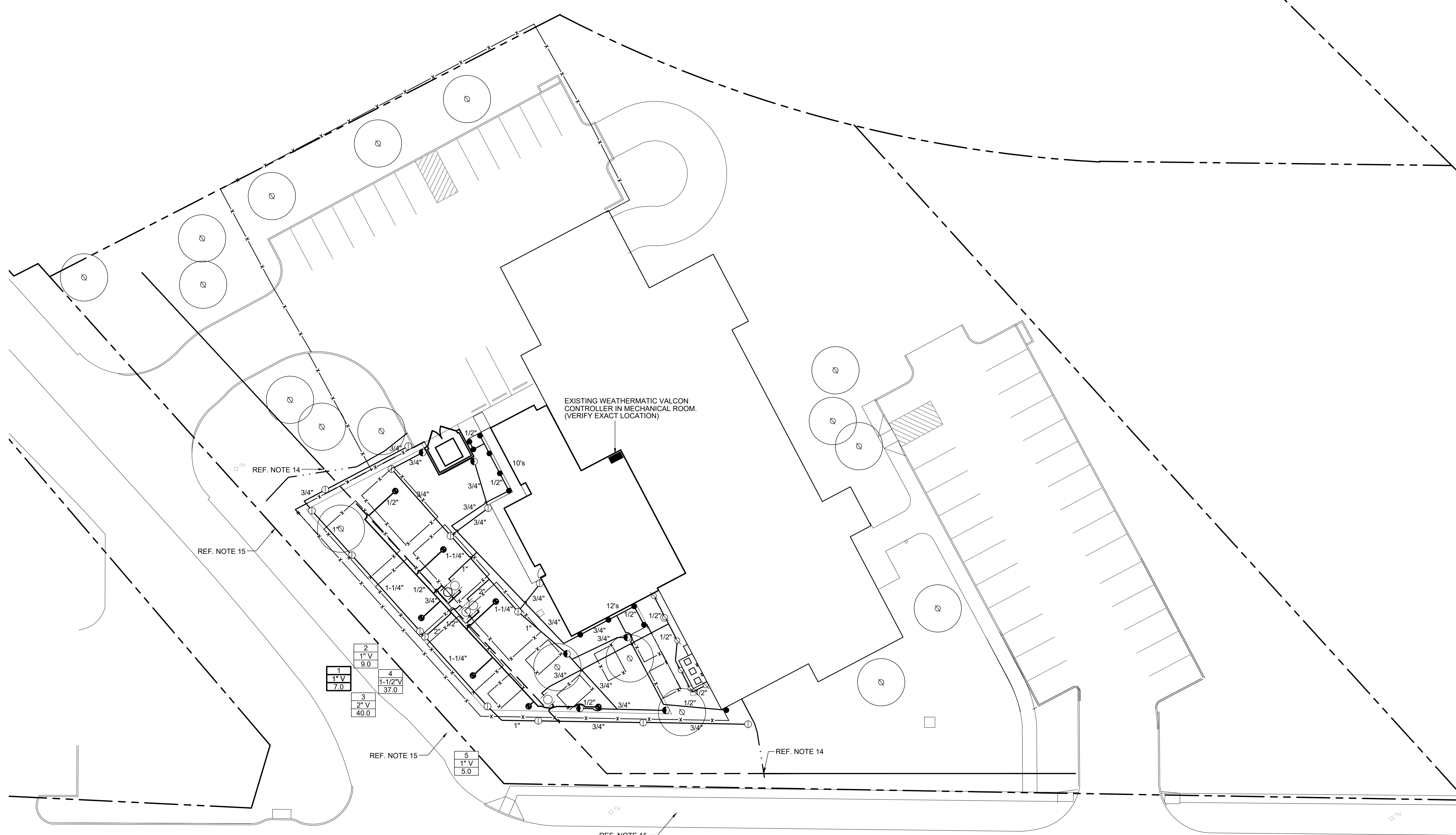
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KAH
Checked By:
KAH
Sheet Title:
LANDSCAPE SPECIFICATIONS
AND DETAILS
Drawing No.

L2.02

4245 North Central Expy
Suite 501
Dallas, Texas 75205
214.865.7192 office





IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	MANUFACTURER	MODEL NO.
●	LAWN SPRAY HEAD	TORO (30 PSI)	570Z-04 W/ MPR PLASTIC NOZZLE ON TORO 1/2" SUPER FUNNY PIPE
⊗	HIGH-POP SPRAY HEAD	TORO (30 PSI)	570Z-12 W/ MPR PLASTIC NOZZLE ON TORO 1/2" SUPER FUNNY PIPE
⊙	TREE BUBBLER HEAD (2 BUBBLERS PER TREE)	TORO (30 PSI)	500 PLASTIC FLOOD BUBBLER NOZZLE ON TORO 1/2" SUPER FUNNY PIPE
⊖	ROTARY HEAD PART-CIRCLE	TORO (40 PSI)	T5 W/ #2.0 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
⊕	ROTARY HEAD PART-CIRCLE	TORO (40 PSI)	T5 W/ #4.0 NOZZLE ON 3/4" LASCO T722-212 SWING JOINT
▲	QUICK COUPLING VALVE	RAINBIRD	#33-DNP WITH LASCO BALL VALVE. PURPLE LID READS "RECLAIMED WATER, DO NOT DRINK" IN ENGLISH AND "NO TOMÉ" IN SPANISH.
⊗	REMOTE CONTROL VALVE	WEATHERMATIC	11000 SERIES, REFER TO PLANS FOR THE SIZE
■	EXISTING CONTROLLER	WEATHERMATIC	VALCON SERIES, REFER TO PLANS FOR THE LOCATION
—	EXISTING MAINLINE	REFER TO SPEC.	VERIFY EXACT SIZE AND LOCATION
—	NEW MAINLINE	REFER TO SPEC.	2" CLASS 200 PVC
—	LATERAL PIPING	REFER TO SPEC.	3/4" & LARGER - CLASS 200 PVC 1/2" - CLASS 315 PVC
□	STATION NUMBER		
□	VALVE SIZE		
□	GPM (APPROX.)		

FLOW CHART

SPRAY HEADS:

NOZZLE	RADIUS	GPM
18F	18'	6.5
18F	18'	4.5
18Q	18'	2.5
15F	15'	4.1
15E	15'	3.1
15C	15'	2.7
15H	15'	2.0
15B	15'	1.4
15Q	15'	1.0
12F	12'	2.9
12E	12'	2.2
12C	12'	1.9
12H	12'	1.4
12B	12'	1.0
12Q	12'	.7
10F	10'	1.7
10H	10'	.9
10B	10'	.6
10Q	10'	.4
8F	8'	1.7
8H	8'	.9
8B	8'	.6
8Q	8'	.4
6V	6'	.5

FLOW CHART

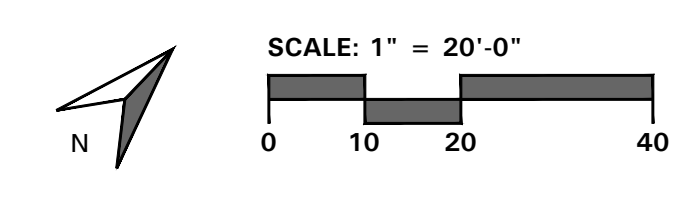
ROTARY HEADS:

22' PART-CIRCLE	1.0
22' FULL-CIRCLE	2.0
30' PART-CIRCLE	1.5
30' FULL-CIRCLE	3.0
40' PART-CIRCLE	4.0
40' FULL-CIRCLE	8.0

PIPE SIZE CHART

FLOW/GPM:	PIPE SIZE:
0 - 4.0	1/2"
4.1 - 9.5	3/4"
9.6 - 14.5	1"
14.6 - 27.0	1-1/4"
27.1 - 35.0	1-1/2"
35.1 - 55.0	2"
55.1 - 70.0	2-1/2"
70.1 - 110.0	3"

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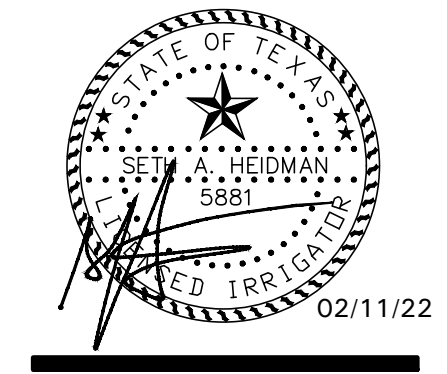
CITY OF MESQUITE ANIMAL SHELTER
1650 GROSS RD
MESQUITE, TX, 75149



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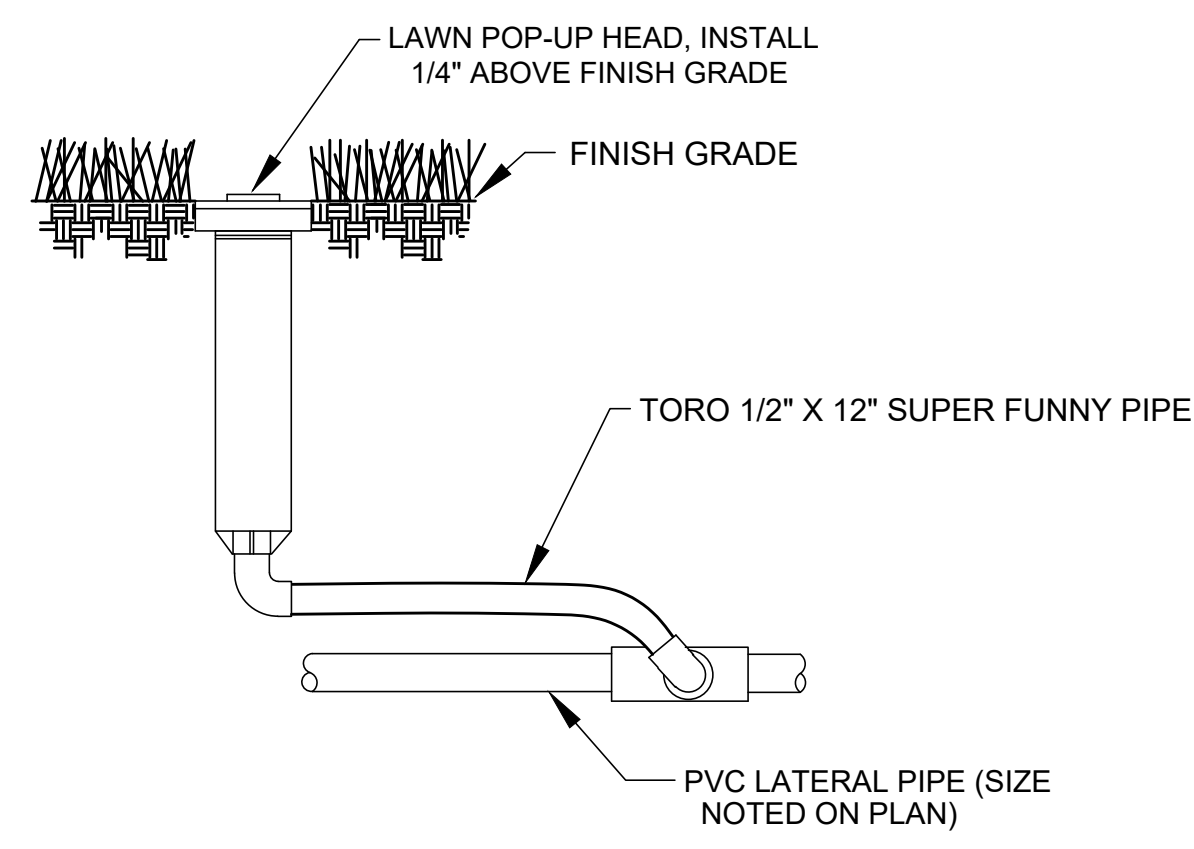


Revisions:

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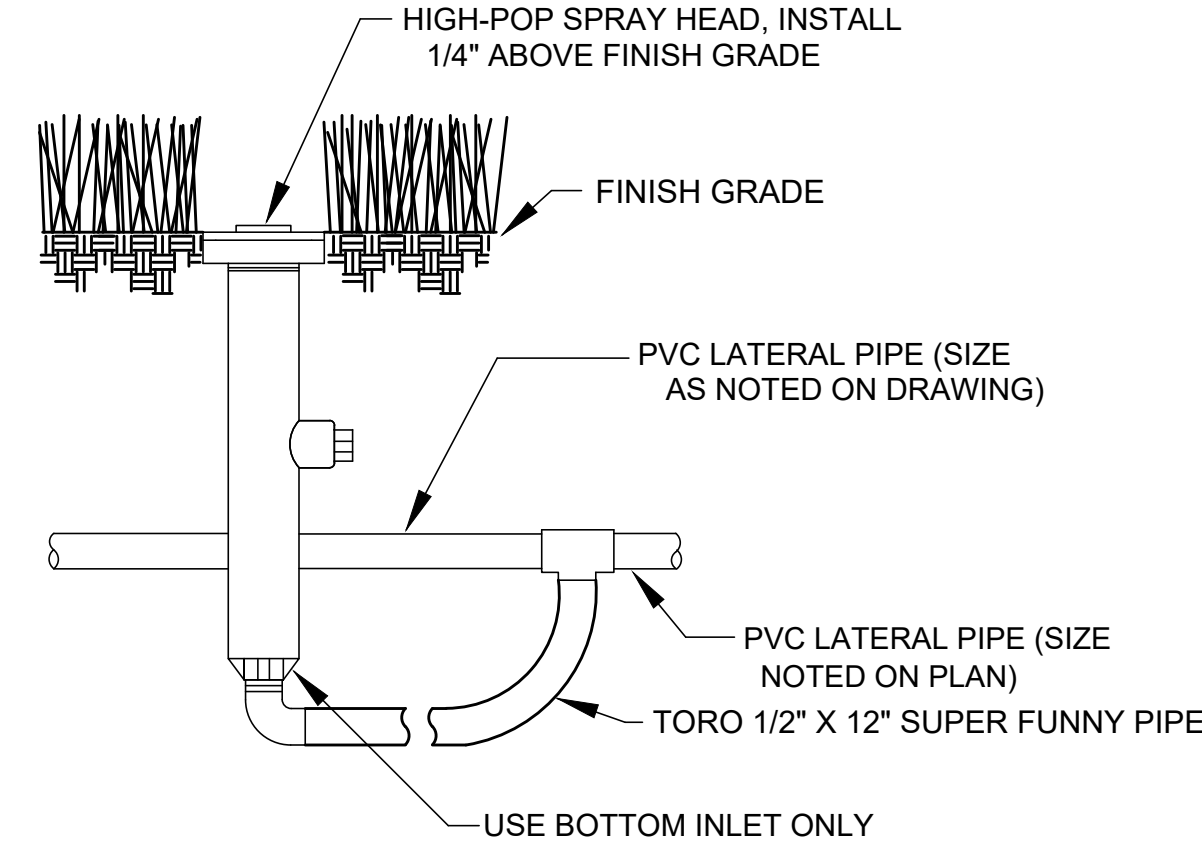
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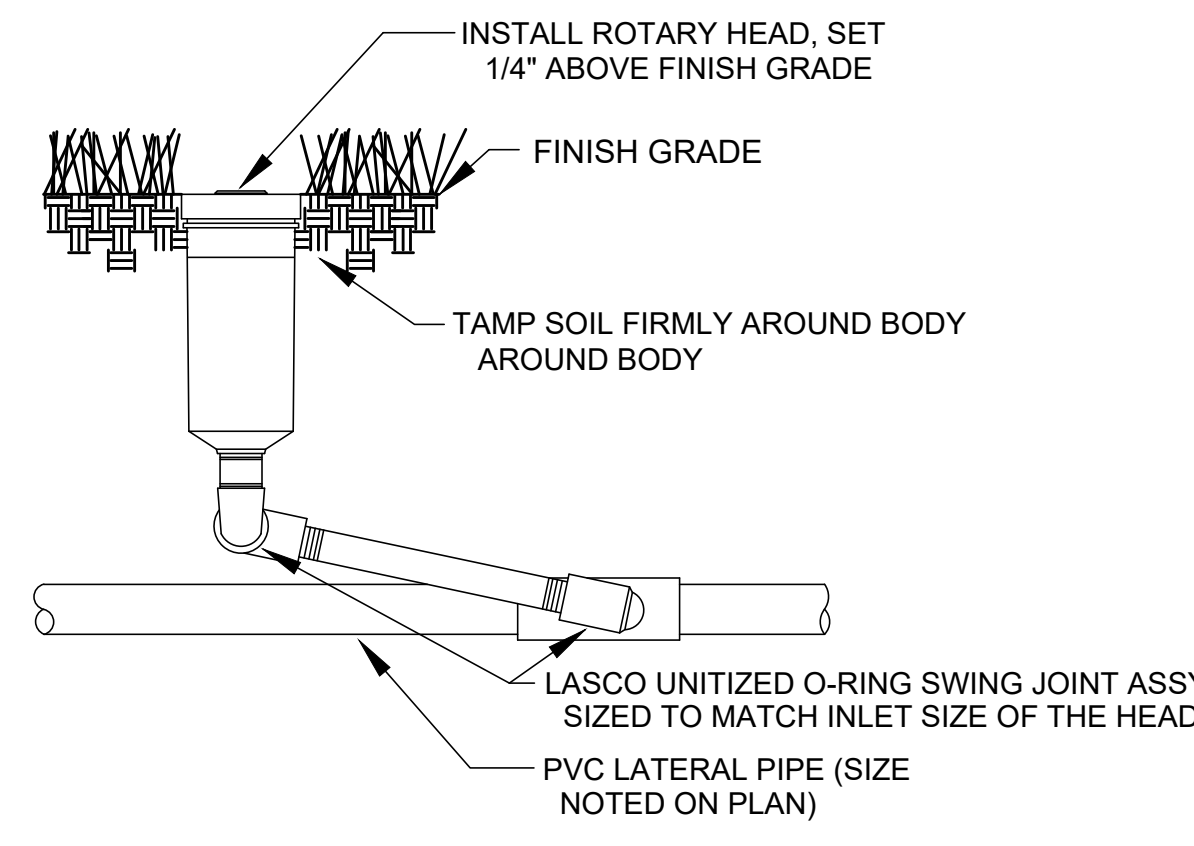
LAWN SPRAY HEAD

NOT TO SCALE ©SHHC



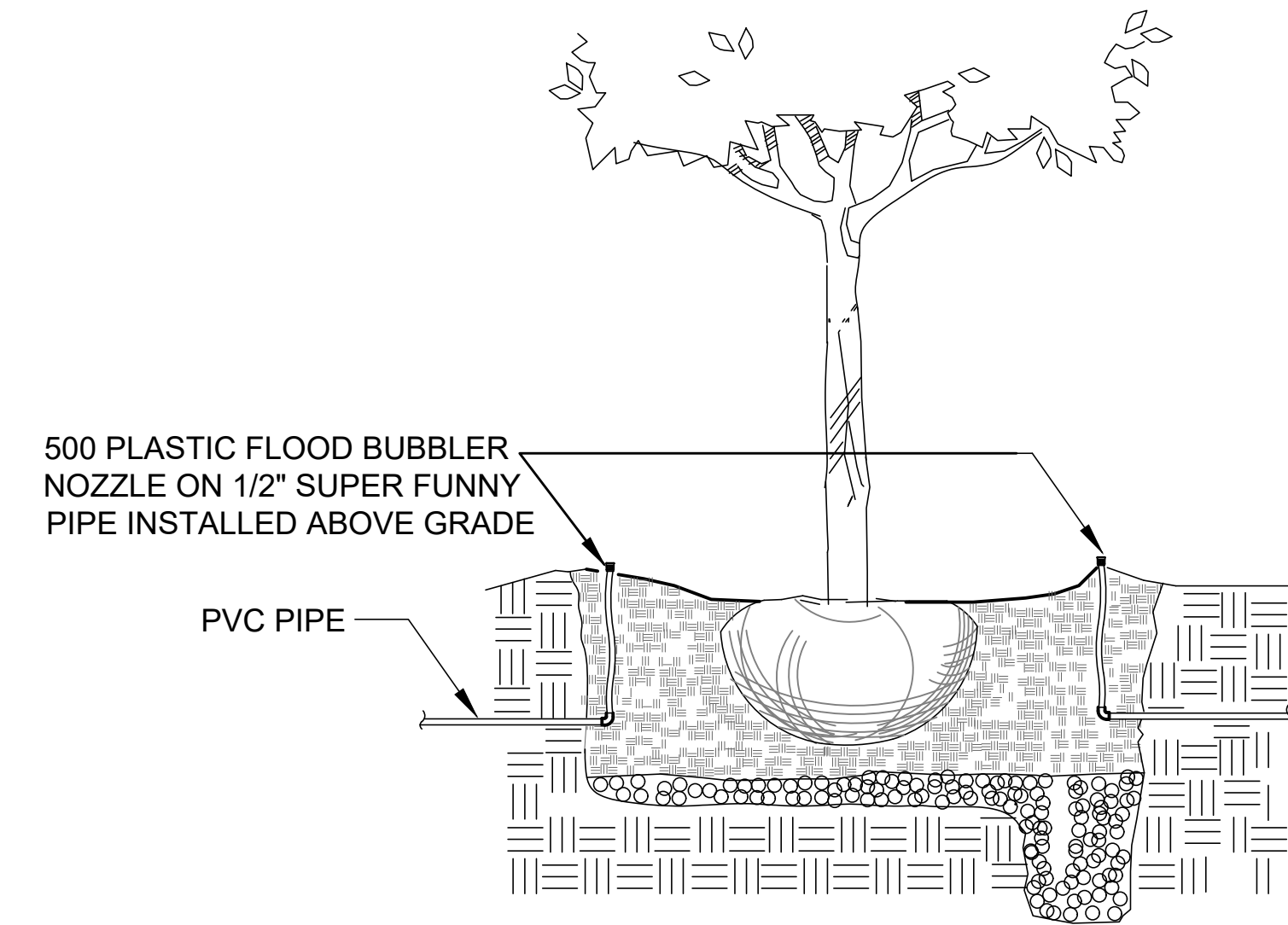
HIGH-POP SPRAY HEAD

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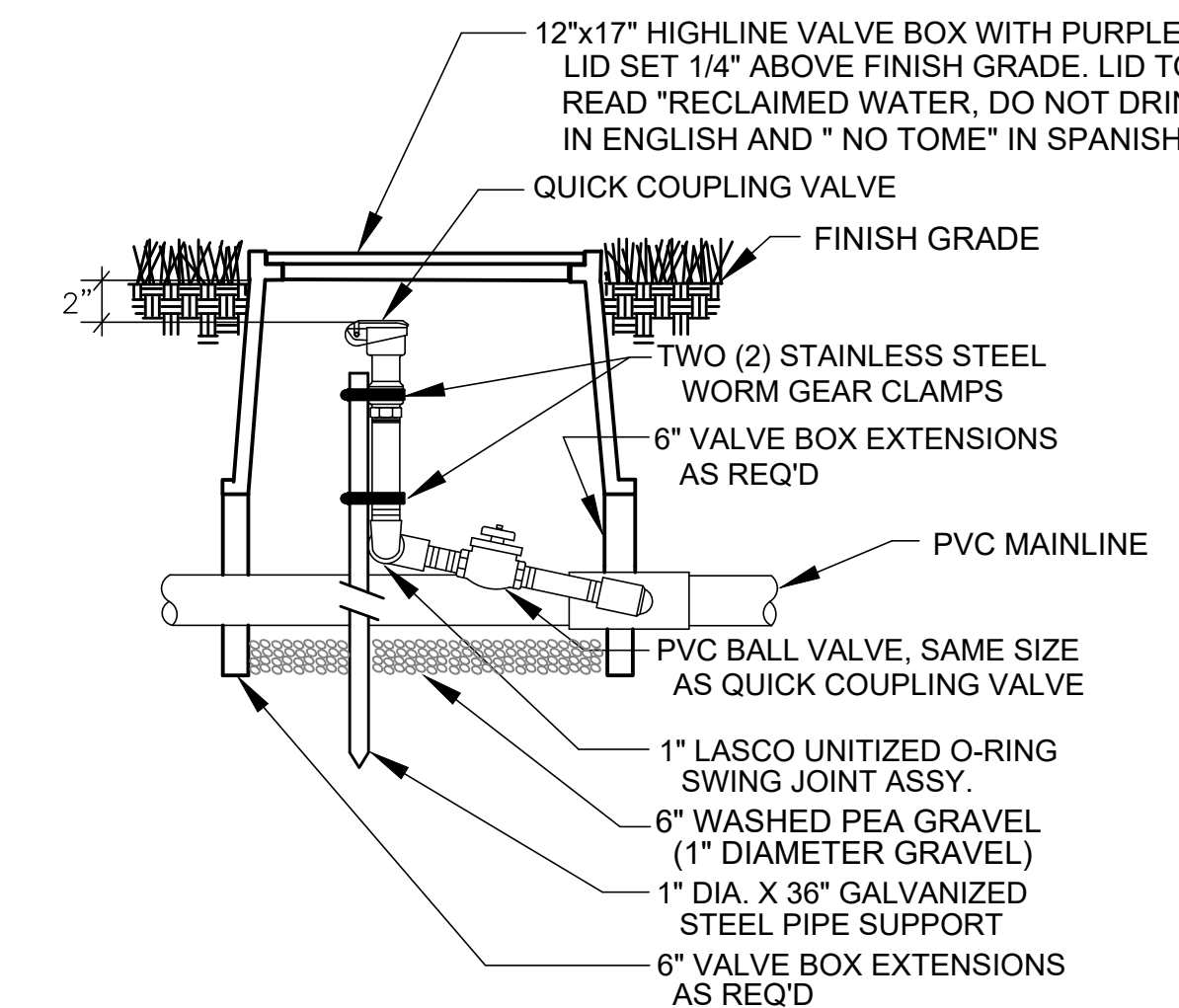
ROTARY HEAD

NOT TO SCALE ©SHHC



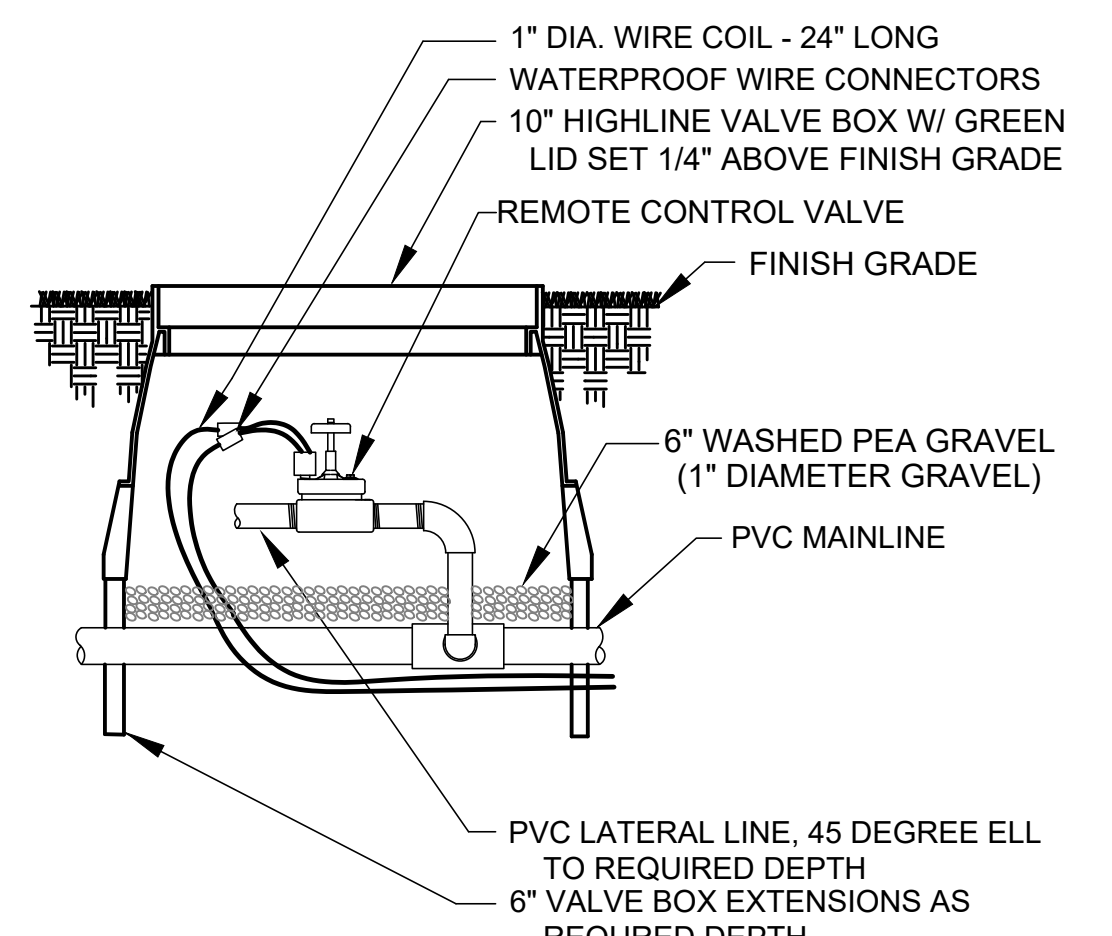
TREE BUBBLER

NOT TO SCALE ©SHHC



QUICK COUPLING VALVE W/ BALL VALVE

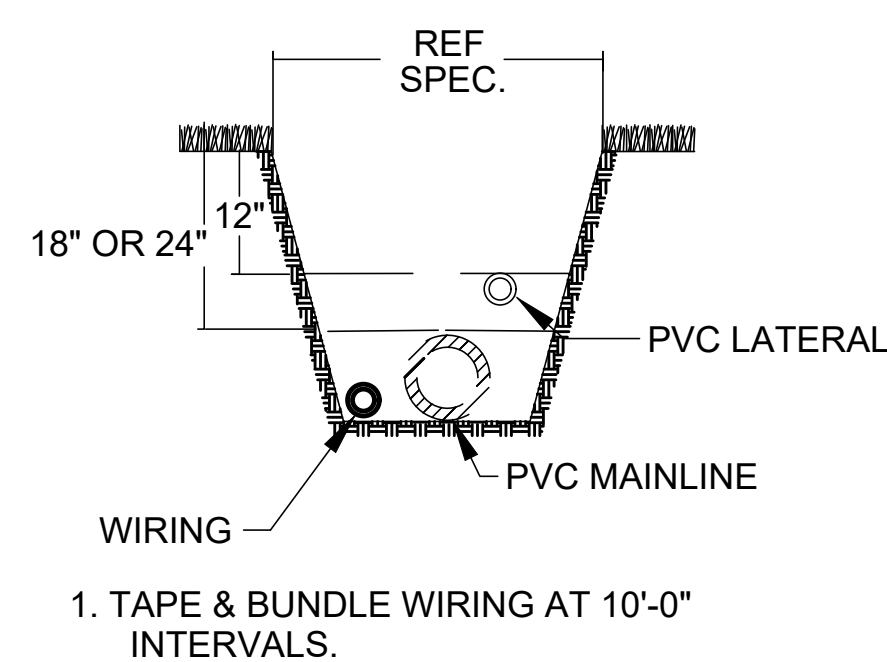
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REMOTE CONTROL VALVE

NOT TO SCALE ©SHHC

MAINLINE, LATERAL, AND WIRING



TRENCHING DETAIL

NOT TO SCALE ©SHHC

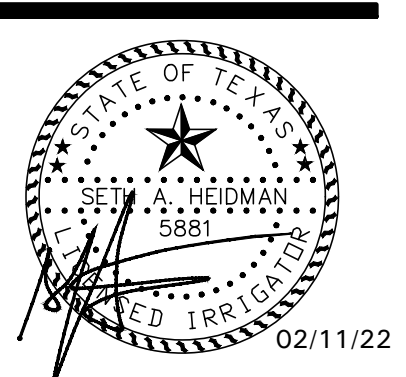
FLOW/GPM:	PIPE SIZE:
0 - 4.0	1/2"
4.1 - 9.5	3/4"
9.6 - 14.5	1"
14.6 - 27.0	1-1/4"
27.1 - 35.0	1-1/2"
35.1 - 55.0	2"
55.1 - 70.0	2-1/2"
70.1 - 110.0	3"

PVC PIPE SIZE CHART

NOT TO SCALE ©SHHC

NOTES:

- ALL 24 VOLT LEAD AND COMMON VALVE WIRING SHALL BE A MINIMUM OF UF-14 GA. SINGLE CONDUCTOR. REFER TO MANUFACTURER'S RECOMMENDATIONS FOR PROPER WIRE SIZE. WIRE SPLICES SHALL BE 3M-DBY PERMANENT AND WATERPROOF PER THE SPECIFICATIONS.
- COORDINATE INSTALLATION OF IRRIGATION SYSTEM WITH LANDSCAPE CONTRACTOR TO ENSURE ALL PLANT MATERIAL WILL BE WATERED IN ACCORDANCE WITH THE INTENT OF THE PLANS AND SPECIFICATIONS.
- PIPING AND VALVES IN PAVING SHOWN FOR CLARITY, INSTALL IN ADJACENT PLANTING BED/LAWN AREA.
- LATERAL PIPING SHALL HAVE A MINIMUM OF 12" OF COVER. MAINLINE AND PIPING UNDER PAVING SHALL HAVE A MINIMUM OF 18" OF COVER. ALL FITTINGS TO BE SCHEDULE 40 PVC. USE WELD-ON #705 SOLVENT AND #P-68 PRIMER FOR PVC CONNECTIONS PER THE SPECIFICATIONS.
- SIZE PIPING PER MANUFACTURER'S RECOMMENDATIONS OF NOT EXCEEDING 5 FPS. REFERENCE CHART.
- CONNECT LAWN SPRAY, TREE BUBBLER, HIGH-POP SPRAY, AND DRIP INDICATOR HEADS TO LATERAL PIPING WITH RAINBIRD 1/2" SPX SWING PIPE. CONNECT ROTARY HEADS TO LATERAL PIPE WITH LASCO #T722 SERIES "UNITIZED", O-RING SWING JOINTS.
- INSTALL QUICK COUPLING VALVES IN TWELVE BY SEVENTEEN (12"x17") INCH HIGHLINE VALVE BOX. CONNECT QUICK COUPLERS TO MAINLINE PIPE WITH LASCO #T722-212 "UNITIZED", O-RING SWING JOINT. SUPPLY OWNER WITH ONE (1) COUPLER KEY WITH SWIVEL HOSE BIBB EACH. VALVES TO BE INSTALLED SO THAT TOP OF QUICK COUPLER IS 2" BELOW BOTTOM OF VALVE BOX TOP. PURPLE LID READS "NON-POTABLE, NOT SAFE FOR DRINKING" IN ENGLISH AND SPANISH. INSTALL EVERY 200'-0" ON CENTER ALONG ENTIRE LENGTH OF MAINLINE.
- PERFORM ELECTRICAL WORK IN ACCORDANCE WITH LOCAL BUILDING CODE. POWER (120V) SHALL BE LOCATED IN A JUNCTION BOX AND HARDWIRED WITHIN FIVE (5') FEET OF CONTROLLER LOCATION BY GENERAL CONTRACTOR.
- INSTALL REMOTE CONTROL VALVES AND WIRE SPLICES IN TEN (10") INCH HIGHLINE VALVE BOXES.
- INSTALL SLEEVES UNDER ALL HARDSCAPE SURFACES SUCH AS ROADS, DRIVES, WALKS, ETC. WHETHER SHOWN OR NOT. SLEEVES SHALL BE CLASS 200 PVC, SIZED AS NOTED ON PLANS AND INSTALLED BY IRRIGATION CONTRACTOR.
- ADJUST NOZZLES FOR SITUATIONS THAT REQUIRE LESS THAN 90 DEGREE RADIUS SPRAY. NO OVERSPRAY ALLOWED ON ANY HARDSCAPE SURFACES.
- DESIGN PRESSURE IS 58.0 PSI. STATIC PRESSURE IS 65 PSI. TEN DAYS PRIOR TO START OF CONSTRUCTION, VERIFY STATIC PRESSURE. IF STATIC PRESSURE IS LESS THAN STATED DO NOT START WORK UNTIL NOTIFIED TO PROCEED.
- MINIMUM DISTANCE BETWEEN MAIN LINE AND LATERAL LINE FITTINGS (EXCEPT FOR REDUCER BUSHINGS) TO BE EIGHTEEN (18") INCHES AND MINIMUM HORIZONTAL DISTANCE OF TWENTY-FOUR (24") INCHES BETWEEN ANY VALVES THAT ARE INSTALLED SIDE BY SIDE.
- PROVIDE ALL LABOR AND MATERIALS NECESSARY TO CONNECT THE PROPOSED 2-INCH SCHEDULE 40 PVC MAINLINE TO THE EXISTING 2-INCH SCHEDULE 40 PVC MAINLINE AT THIS APPROXIMATE LOCATION. VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING MAINLINE PRIOR TO BIDDING. CONTRACTOR MUST COORDINATE THIS WORK WITH ALL DISCIPLINES PRIOR TO BEGINNING OF THE PROJECT.
- PROVIDE ALL LABOR AND MATERIALS NECESSARY TO REPAIR AND MODIFY THE EXISTING IRRIGATION SYSTEM IN THIS AREA SO THAT IT IS 100% OPERABLE AND AUTOMATED UPON THE COMPLETION OF THIS PROJECT. VERIFY THE CONDITION AND LOCATION OF THE EXISTING SYSTEM PRIOR TO BIDDING. CONTRACTOR MUST COORDINATE THIS WORK WITH ALL DISCIPLINES PRIOR TO BEGINNING OF THE PROJECT.
- PROVIDE ALL LABOR AND MATERIALS NECESSARY INSTALL NEW UF-14GA WIRES BACK TO THE EXISTING CONTROLLER LOCATION. VERIFY THE EXACT SIZE AND LOCATION OF THE EXISTING CONTROLLER PRIOR TO BIDDING. THIS WORK TO INCLUDE RE-SEQUENCING THE CONTROLLER AND REPAIRING THE SYSTEM DUE TO NEW WIRE DITCH. CONTRACTOR MUST COORDINATE THIS WORK WITH ALL DISCIPLINES PRIOR TO BEGINNING OF THE PROJECT.
- DO NOT INSTALL ANY MAINLINES, VALVES, OR CONTROL WIRES WITHIN THE R.O.W. UNLESS CITY APPROVED.
- PROVIDE ALL LABOR AND MATERIAL NECESSARY TO HAND DIG WITHIN ALL EXISTING TREE ROOT ZONES. CONTRACTOR MUST STAKE DITCHES AND RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT PRIOR TO ANY TRENCHING OR DIGGING.
- ALL STATE OF TEXAS LAWS/RULES AND ALL LOCAL CODES/ORDINANCES ARE MADE PART OF THESE PLANS AND SPECIFICATIONS WHETHER SHOWN OR NOT. THESE LAWS AND ORDINANCES WILL SUPERCEDE THE PLANS, DETAILS, AND/OR SPECIFICATIONS FOR THIS PROJECT. CONTRACTOR IS CAUTIONED THAT HE IS TO INCLUDE ANY AND ALL COST NECESSARY TO MEET OR EXCEED THE LAWS OF THE STATE OF TEXAS OR LOCAL CODES CONCERNING LANDSCAPE IRRIGATION. A LICENSED IRRIGATOR OR LICENSED IRRIGATION TECHNICIAN SHALL BE ON-SITE AT ALL TIMES WHILE THE LANDSCAPE IRRIGATION SYSTEM IS BEING INSTALLED PER CITY OF MESQUITE REQUIREMENTS.
- IT IS THE INTENT OF THESE PLANS TO PROVIDE THE OWNER WITH A FULLY AUTOMATED AND OPERATIONAL IRRIGATION SYSTEM UPON THE COMPLETION OF THIS PROJECT. REFERENCE THE ORIGINAL DESIGN DATED 05-24-2004 FOR ANY QUESTIONS REGARDING THE EXISTING SYSTEM



Revisions:

REV.	DATE	TITLE

Date: CONSTRUCTION DOCUMENTS 02.11.22
Project No. 2942
Drawn By: SAH
Checked By: SAH
Sheet Title: IRRIGATION SPECIFICATIONS AND DETAILS
Drawing No.

2012 TEXAS ACCESSIBILITY STANDARDS

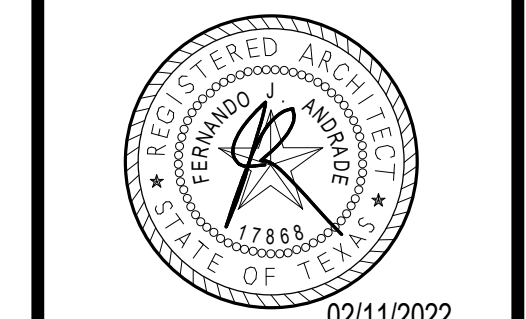
THE PROVIDED INFORMATION IS CONDENSED FROM THE TEXAS ACCESSIBILITY STANDARDS. IT SHALL SERVE AS A CRITERIA FOR THE CONSTRUCTION OF ALL ACCESSIBLE ELEMENTS AND SPACES FOR THE HANDICAPPED. IN THE EVENT OF ANY CONFLICT BETWEEN THESE CRITERIA AND OTHER INFORMATION CONTAINED IN THE PROJECT DOCUMENTS, GSRA ARCHITECTS SHALL BE NOTIFIED IMMEDIATELY. THE COMPLETE VERSION OF THE TEXAS ACCESSIBILITY STANDARDS MAY BE DOWNLOADED AT THE TDA TEXAS DEPARTMENT OF LICENSING AND REGULATION WEBSITE.

Technical drawings and diagrams for accessibility standards, including sections for: 302 FLOOR OR GROUND SURFACES, 303 CHANGES IN LEVEL, 304 TURNING SPACE, 305 CLEAR FLOOR OR GROUND SPACE, 306 KNEE AND TOE CLEARANCE, 307 PROTRUDING OBJECTS, 308 REACH RANGES, 403 WALKING SURFACES, 404 DOORS, DOORWAYS, AND GATES, 405 RAMP, 406 CURB RAMPS, 407 ELEVATORS, 408 LIMITED-USE/LIMITED-APPLICATION ELEVATORS, 409 PRIVATE RESIDENCE ELEVATORS, 410 PLATFORM LIFTS, 502 PARKING SPACES, 503 PASSENGER LOADING ZONES, 504 STAIRWAYS, 505 HANDRAILS, 602 DRINKING FOUNTAINS, 604 WATER CLOSETS & TOILET COMPARTMENTS, 605 URINALS, 607 BATHTUBS, 608 SHOWER COMPARTMENTS, 609 GRAB BARS, 610 SEATS, 611 WASHING MACHINES AND CLOTHES DRYERS, 703 SIGNS, 705 DETECTABLE WARNINGS, 903 BENCHES, 904 SALES AND SERVICE COUNTERS.

CITY OF MESQUITE ANIMAL SHELTER & ADOPTION CENTER
1650 GROSS RD
MESQUITE, TX, 75149

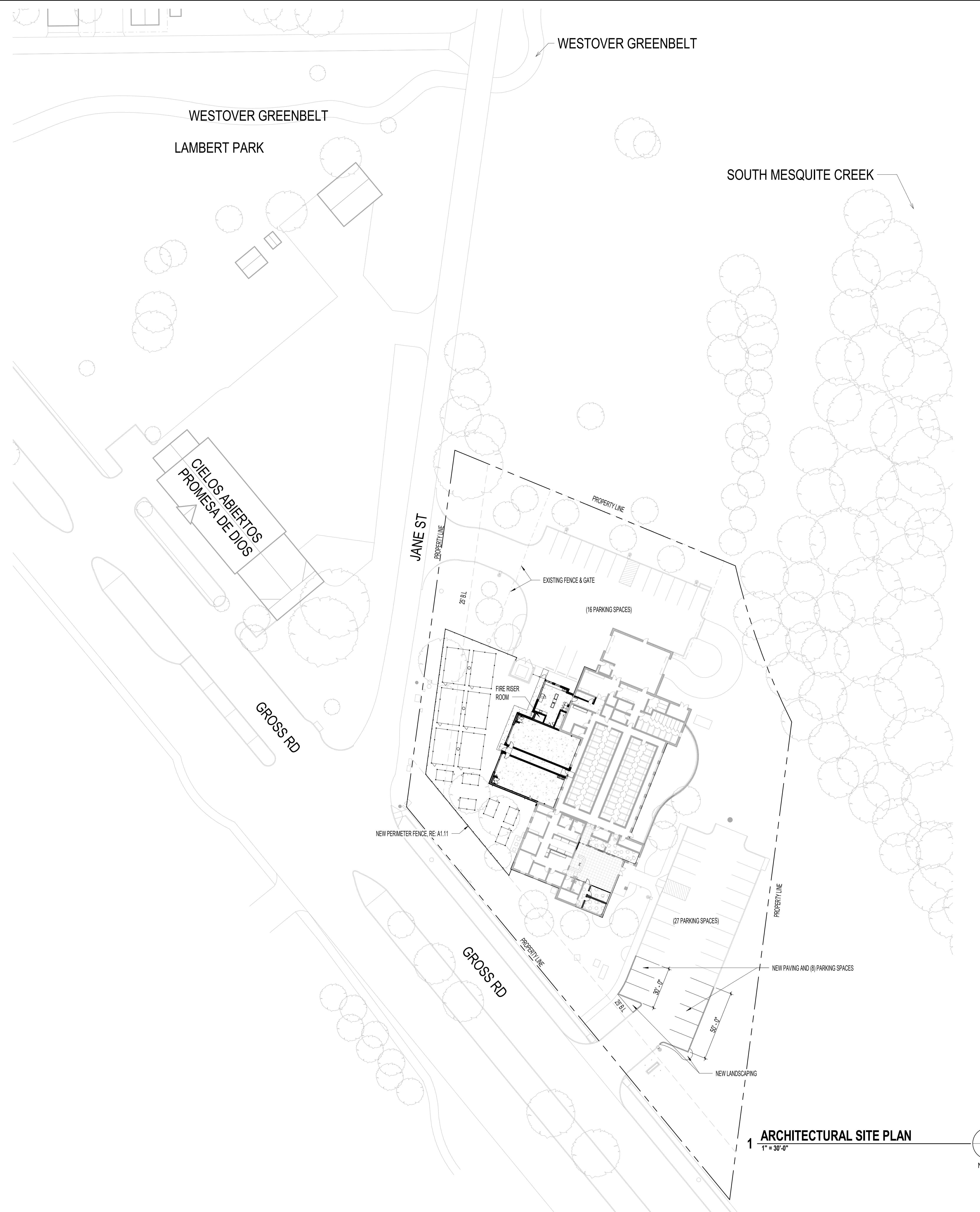
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Revisions table with columns: REV., DATE, TITLE. Includes revision 2942.

Date: CONSTRUCTION DOCS 02-11-2022
Project No: 2942
Drawn By: XXX
Checked By: Checker
Sheet Title: 2012 TAS ACCESSIBILITY GUIDELINES
Drawing No.



SITE PLAN LEGEND	
	CONCRETE PAVING REF. CIVIL
	CONCRETE SIDEWALK PAVING REF. CIVIL
	LANDSCAPED AREA REF. LANDSCAPE
	ADA WARNING PAVERS: WASAU TILE 24" ADA-2 PAVER

LEGAL DESCRIPTION:	ZONING & USE:
STATE: TEXAS COUNTY: DALLAS CITY: MESQUITE 1650 GROSS ROAD, BLOCK 1, LOT 1 2.0156 ACRES (87,713 SQ. FT.)	ZONED: CC-OFFICE LAND USE: ANIMAL SHELTER GROSS BUILDING AREA: 16,316 S.F. BUILDING HEIGHT: MAXIMUM: 60 FT. MAX. PROVIDED: 24 FT. (1 STORY) SETBACKS: FRONT: 25 FT. SIDE: 25 FT. REAR: 30 FT. ABUTTING R

PARKING SPACES:
TOTAL PARKING SPACES EXISTING:
EXISTING SPACES: 33 SPACES + 2 ACCESSIBLE SPACES = 35
PROVIDED: 35 SPACES TOTAL

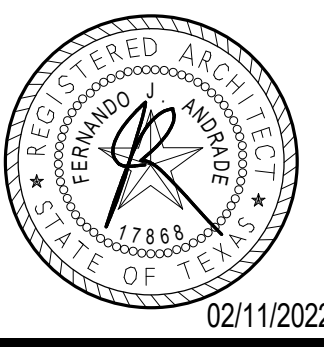
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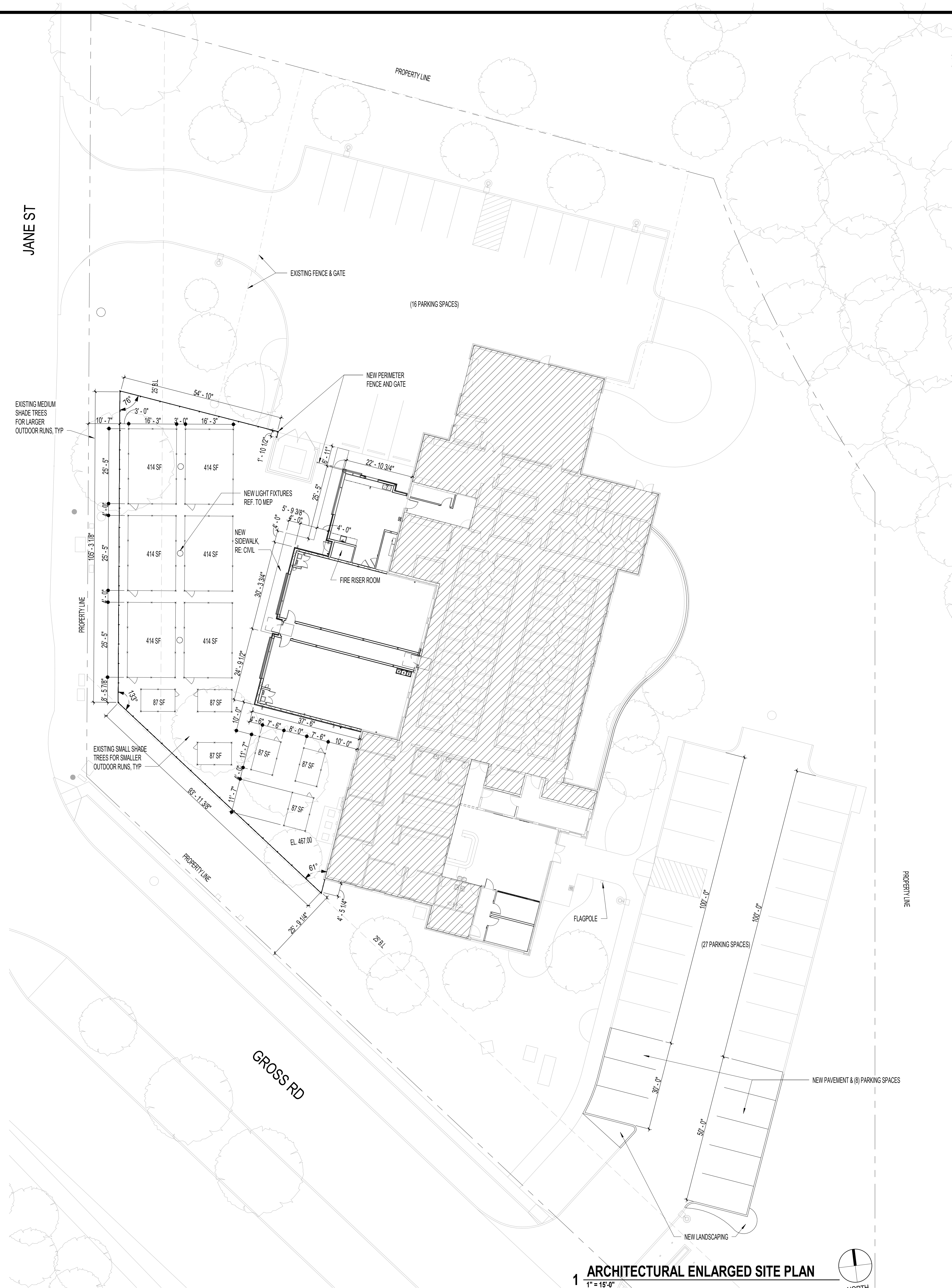


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 RG
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 SITE PLAN
 Drawing No.

A1.00

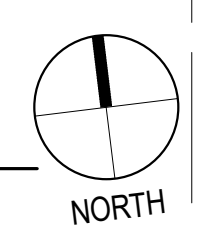


SITE PLAN LEGEND	
	CONCRETE PAVING REF. CIVIL
	CONCRETE SIDEWALK PAVING REF. CIVIL
	LANDSCAPED AREA REF. LANDSCAPE
	ADA WARNING PAVERS: WASAU TILE 24" ADA-2 PAVER

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PARKING SPACES:
TOTAL PARKING SPACES EXISTING:
EXISTING SPACES: 33 SPACES + 2 ACCESSIBLE SPACES = 35
PROVIDED: 35 SPACES TOTAL

1 ARCHITECTURAL ENLARGED SITE PLAN
1" = 15'-0"



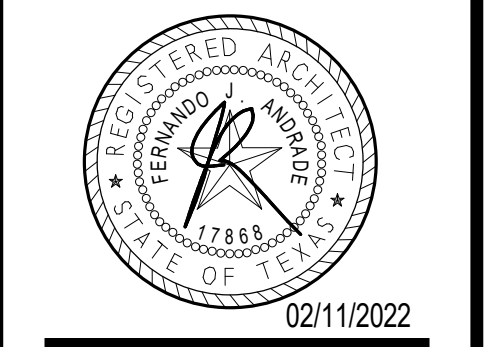
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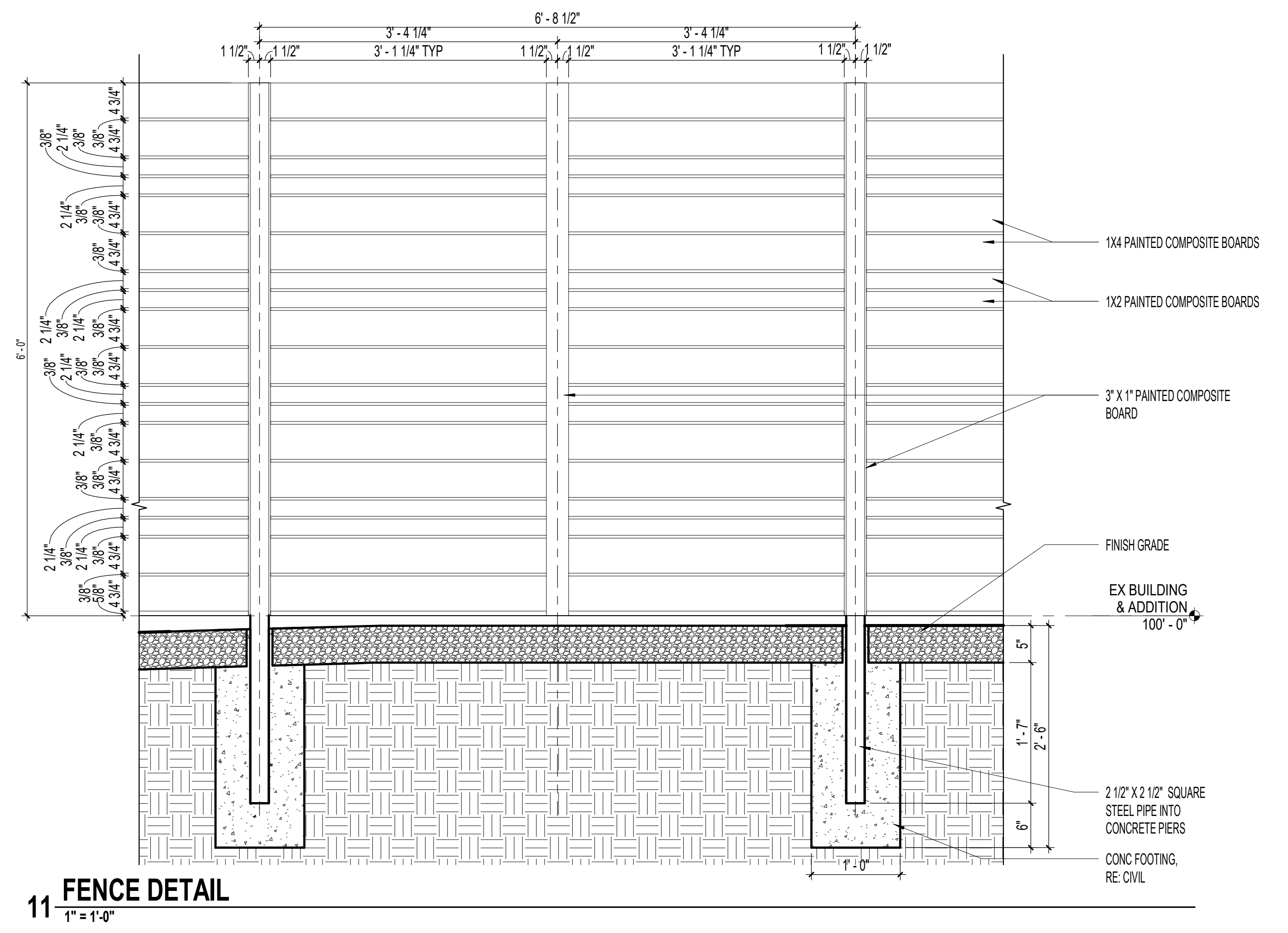
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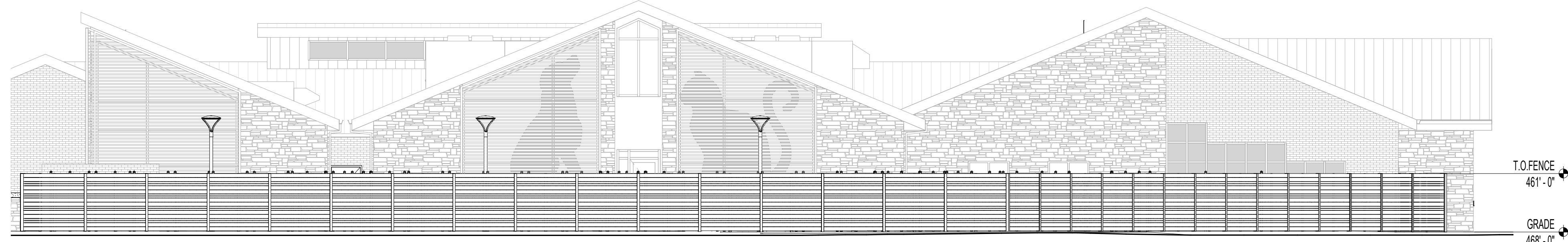
REV.	DATE	TITLE

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 Sheet Title:
 SITE DETAILS

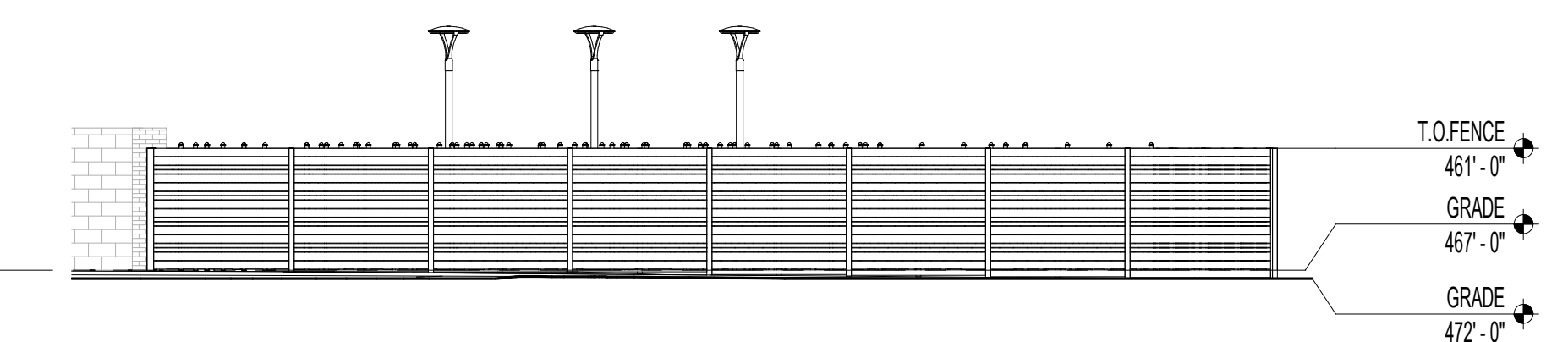
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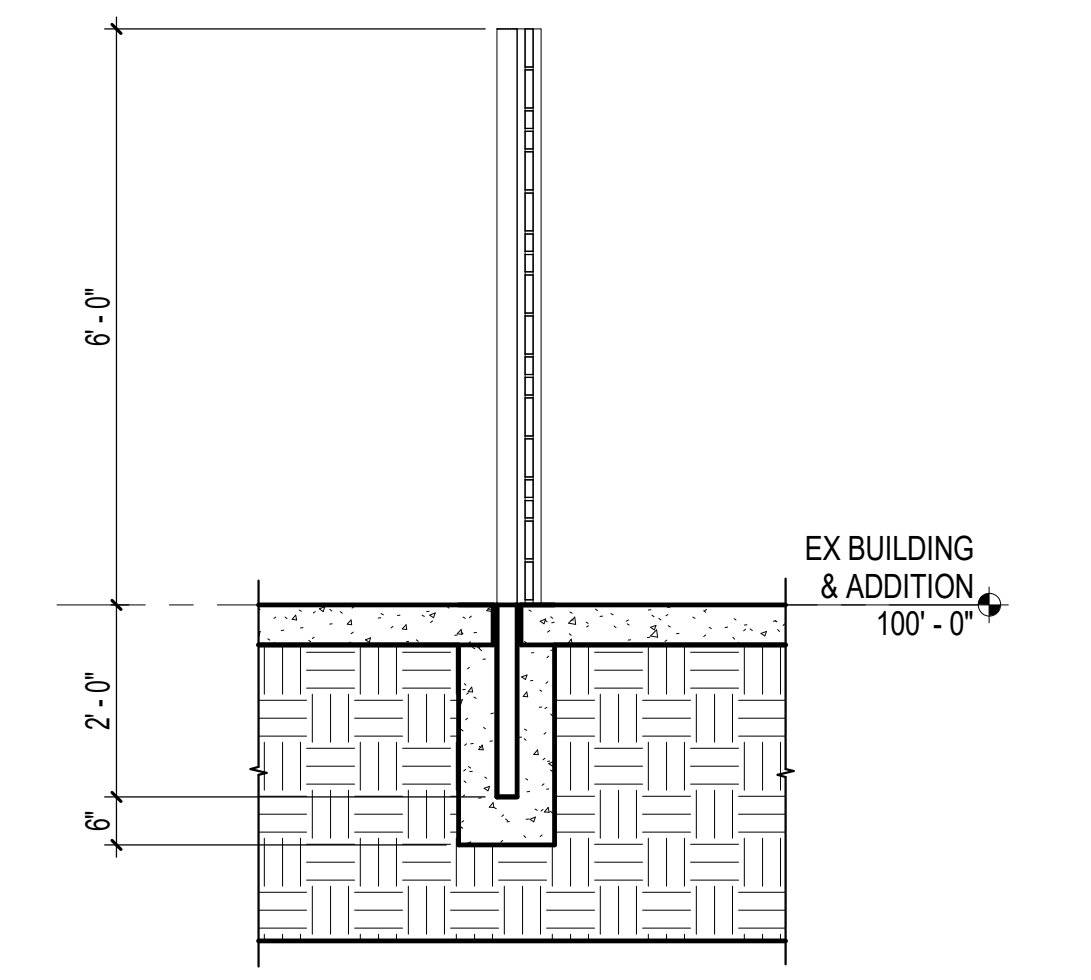
11 FENCE DETAIL
 1" = 1'-0"



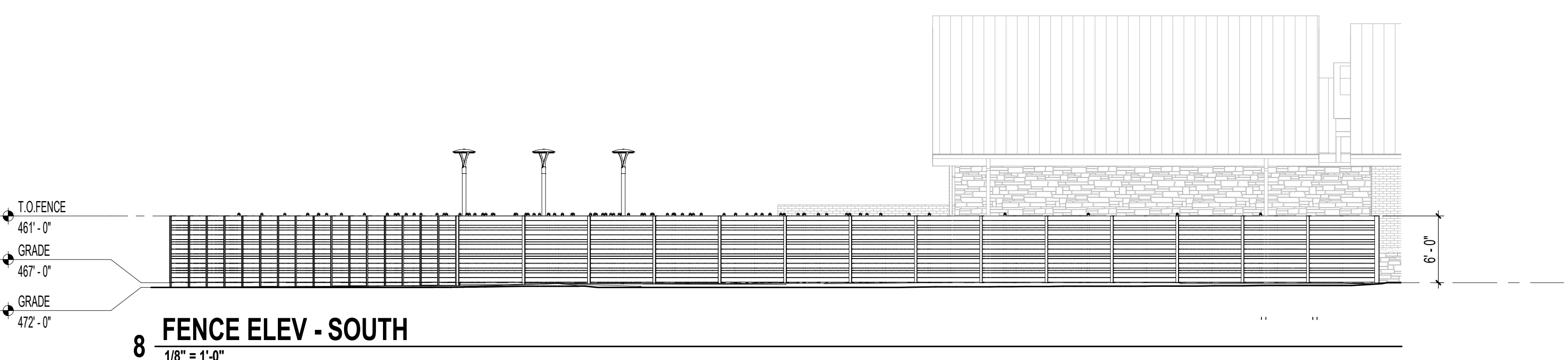
10 FENCE ELEV - WEST
 1/8" = 1'-0"



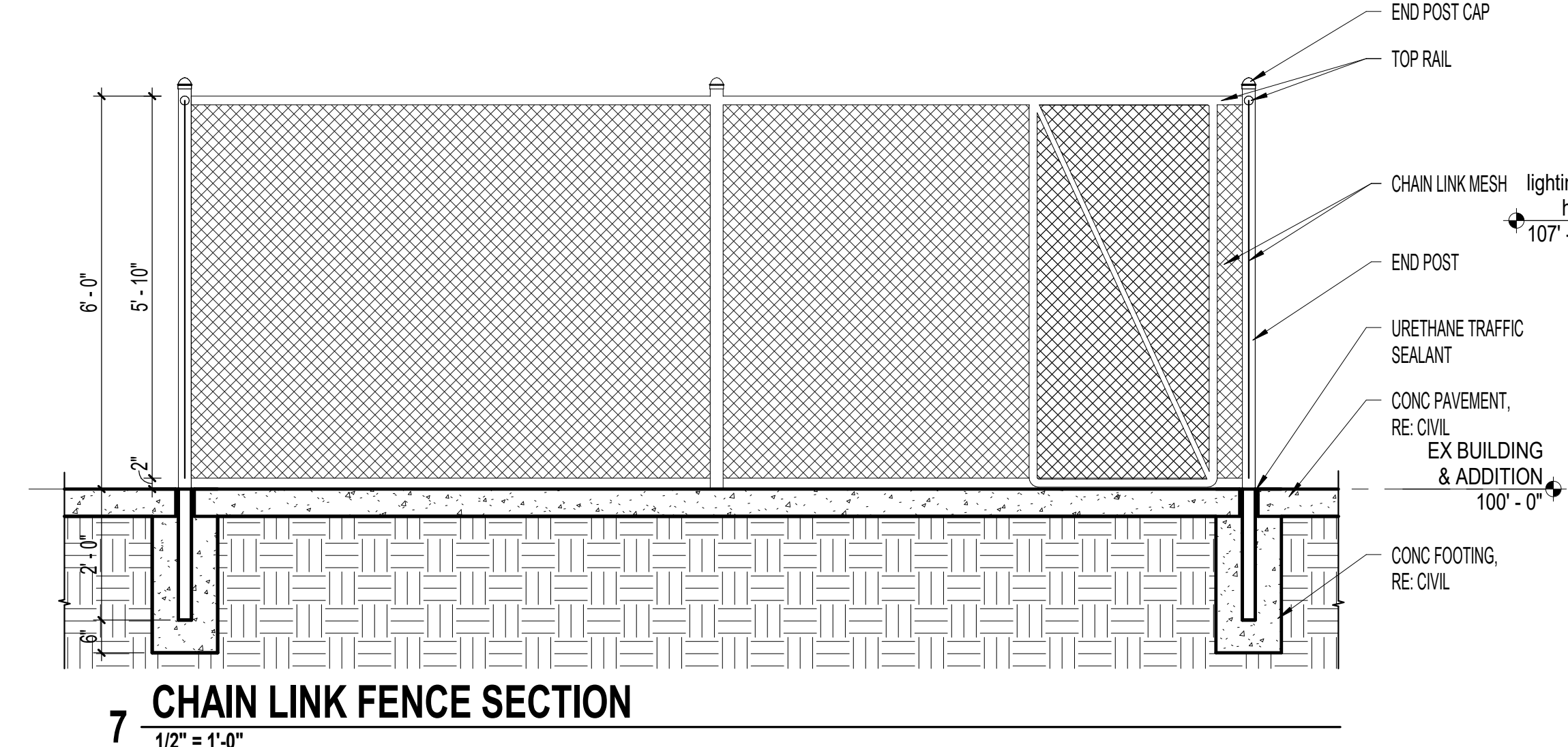
9 FENCE ELEV - NORTH
 1/8" = 1'-0"



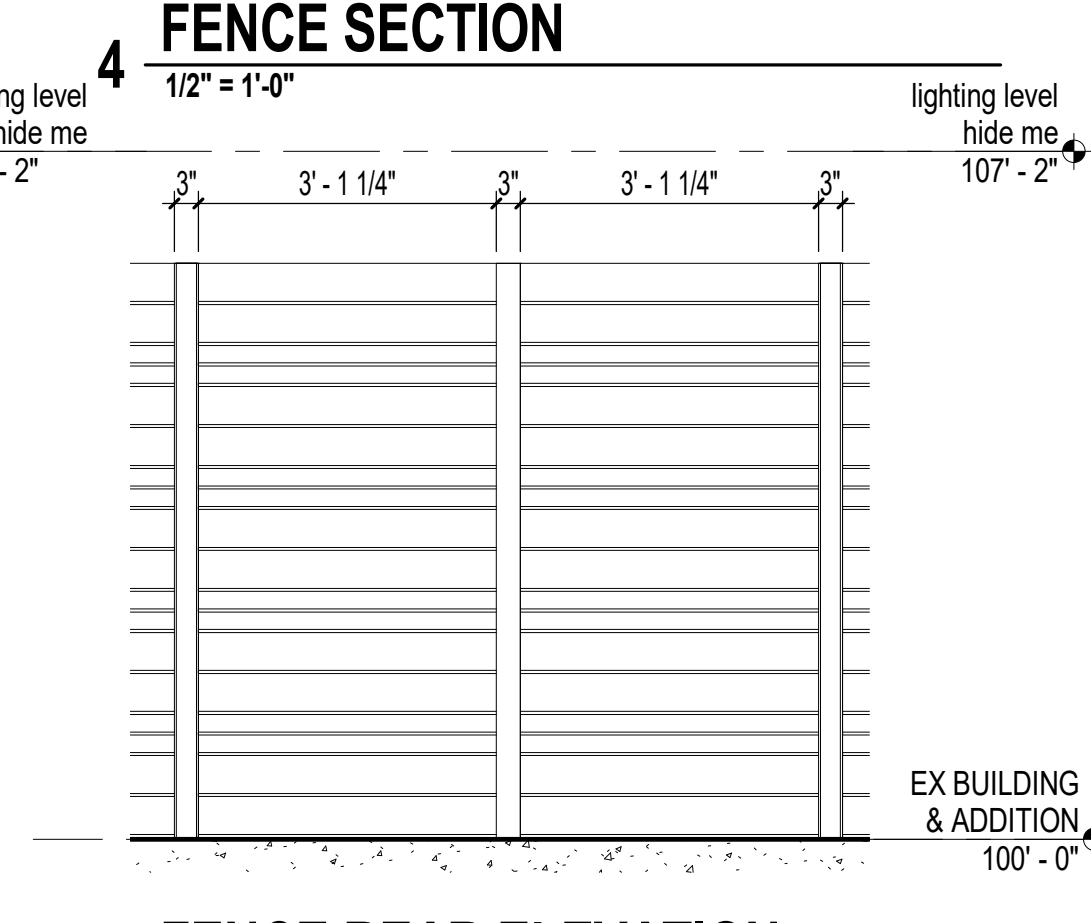
4 FENCE SECTION
 1/2" = 1'-0"



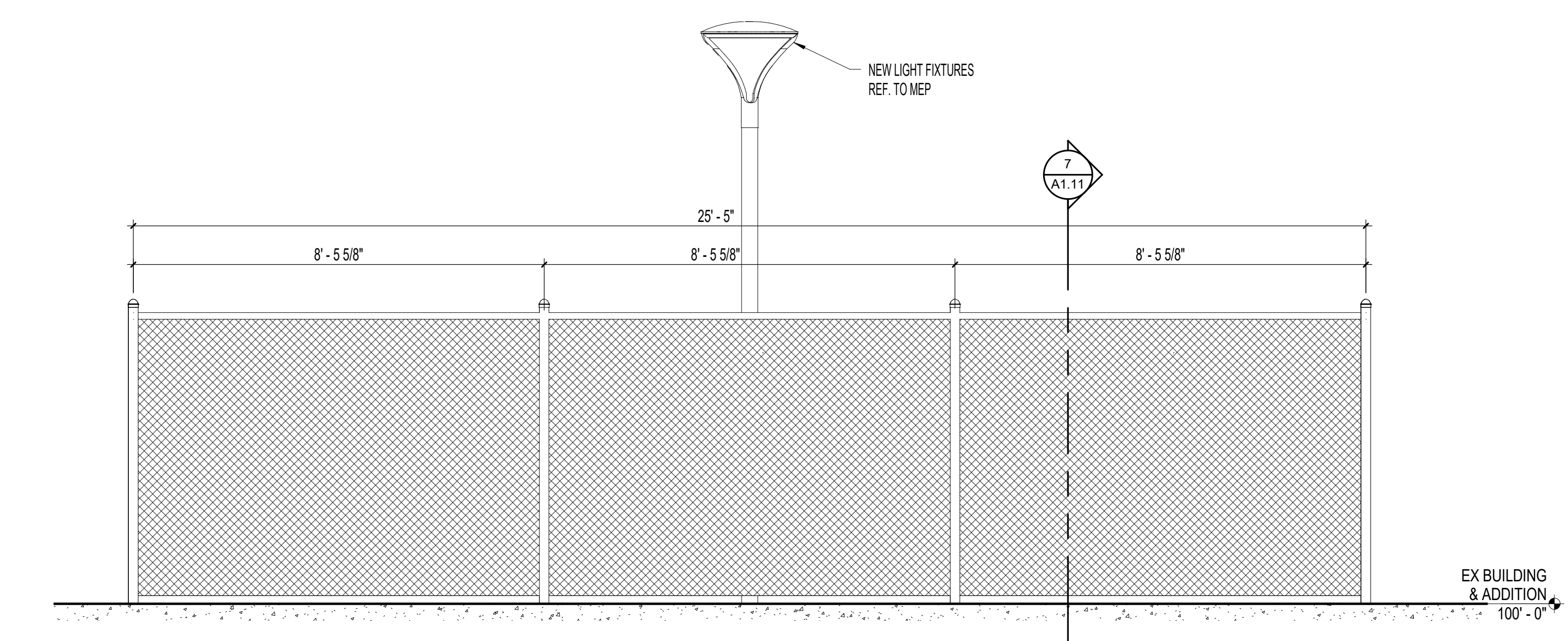
8 FENCE ELEV - SOUTH
 1/8" = 1'-0"



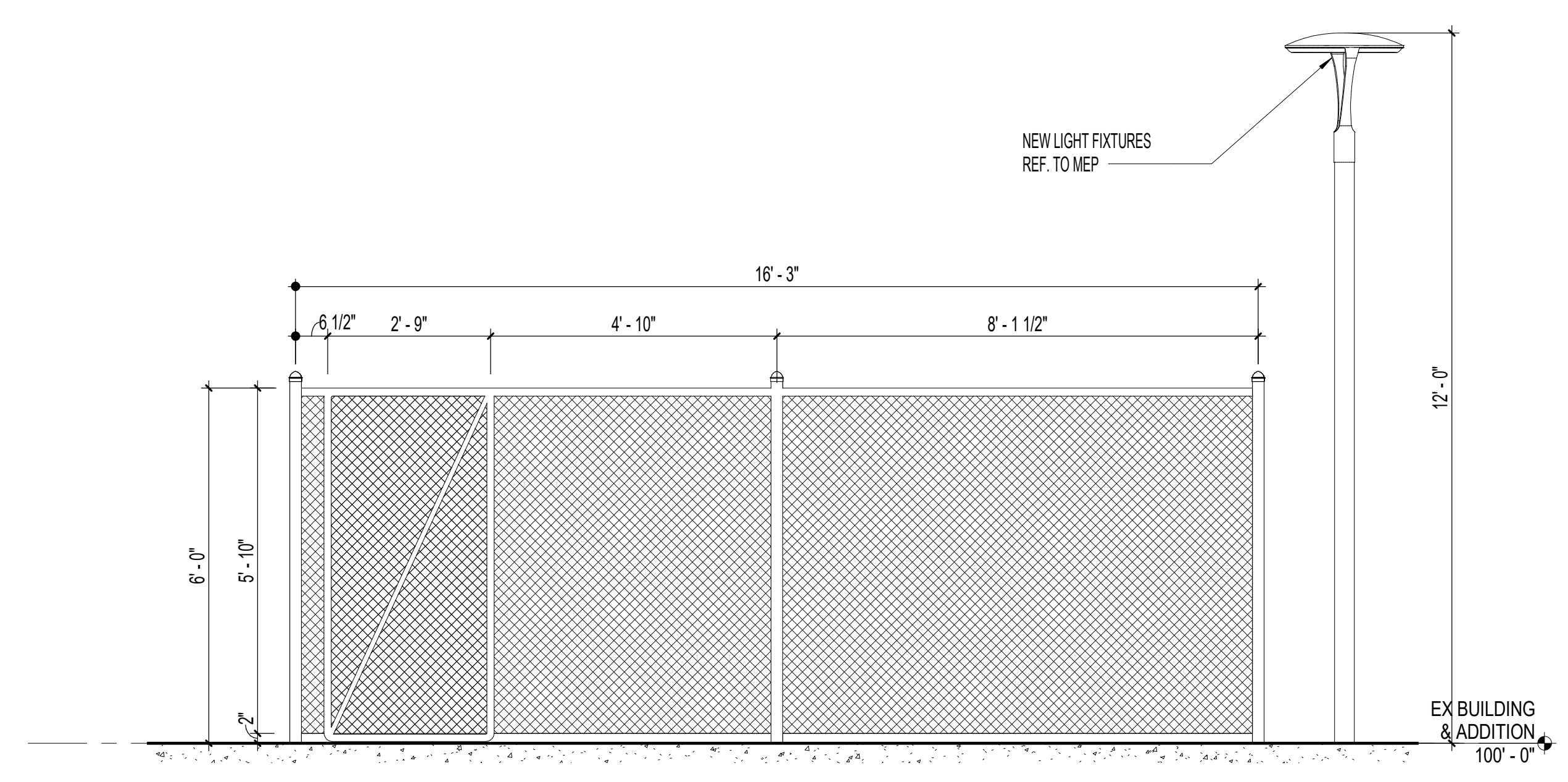
7 CHAIN LINK FENCE SECTION
 1/2" = 1'-0"



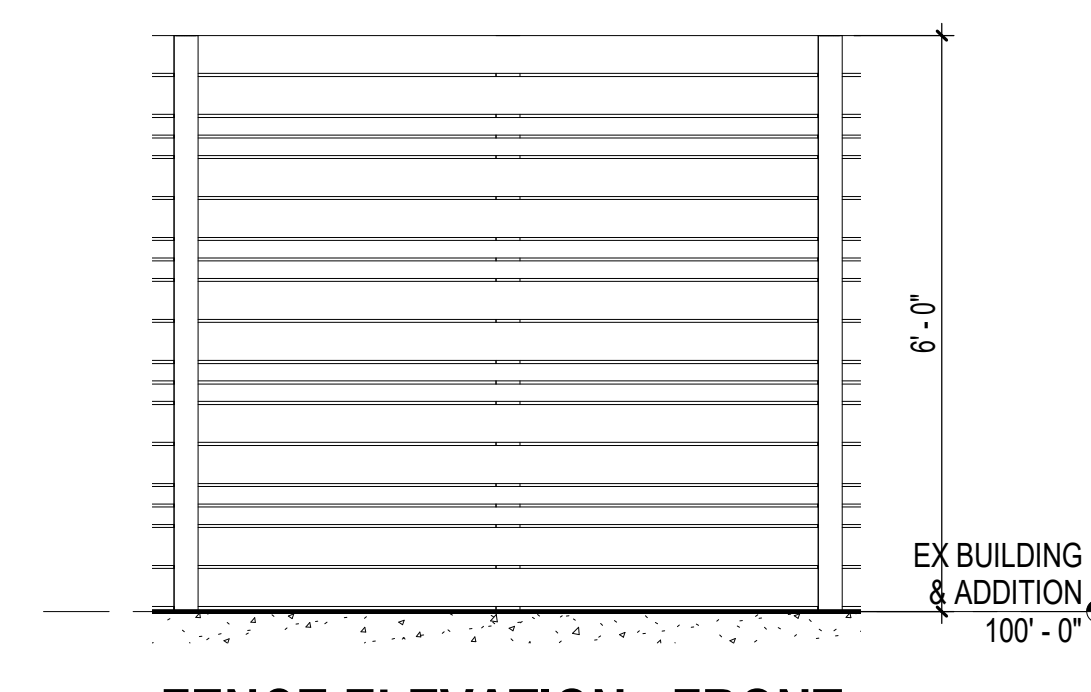
3 FENCE REAR ELEVATION
 1/2" = 1'-0"



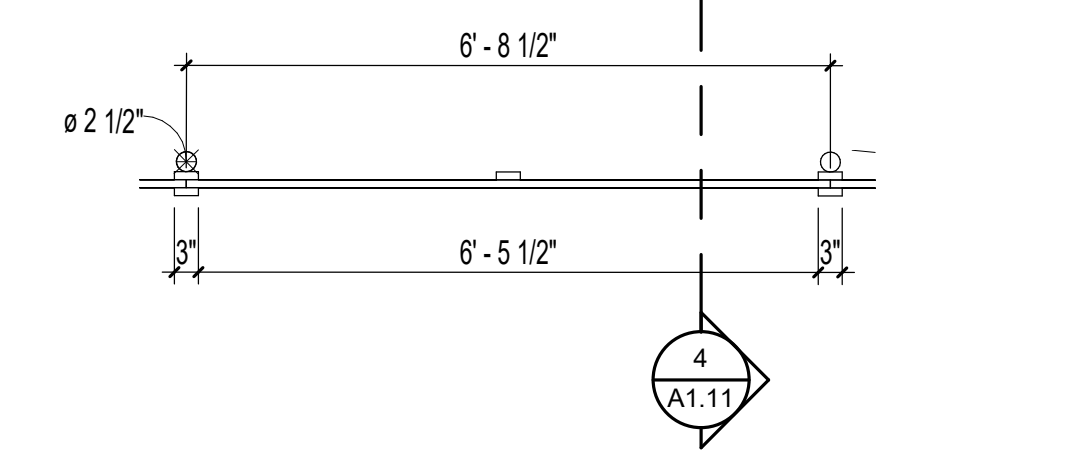
6 CHAIN LINK FENCE SIDE ELEVATION
 1/2" = 1'-0"



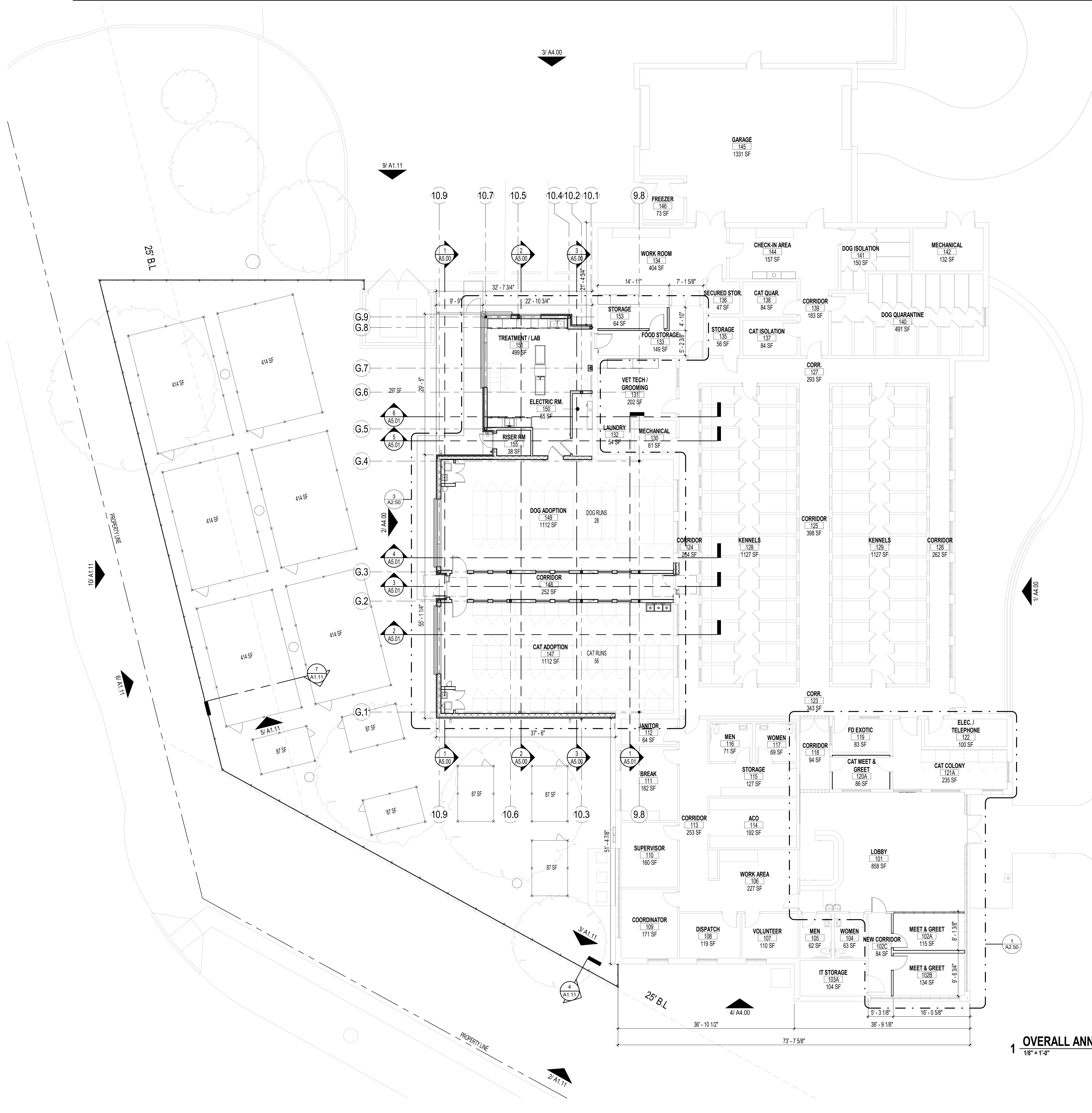
5 CHAIN LINK FENCE ELEVATION - FRONT
 1/2" = 1'-0"



2 FENCE ELEVATION - FRONT
 1/2" = 1'-0"



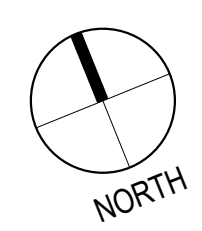
1 FENCE ENLARGED PLAN
 1/2" = 1'-0"



- FLOOR PLAN GENERAL NOTES**
- PARTITION TYPES ARE SHOWN ON A7.00. REFER TO ADDITIONAL FIRE AND SMOKE RATED INFORMATION ON LIFE SAFETY SHEET S1.00 AND THE LIFE SAFETY REPORT IN THE PROJECT MANUAL.
 - DO NOT SCALE DRAWINGS. DIMENSIONS GOVERN. LARGE SCALE DIMENSIONS GOVERN OVER SMALL SCALE.
 - DIMENSIONS SHOWN ON THE FLOOR PLANS ARE FROM CENTERLINE OF COLUMNS TO FACE OF GYPSUM BOARD ON INTERIOR WALLS AND TO FACE OF MASONRY OR EXT SHEATHING OF EXTERIOR WALLS UNLESS INDICATED OTHERWISE ON PLANS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE ARCHITECT.
 - ALL ANGLED WALLS ARE AT 45 DEGREE ANGLES, UNO.
 - SINKS SHALL BE MOUNTED SO THAT THE CENTERLINE OF THE SINK IS 1'-3" MINIMUM TO THE FACE OF THE ADJACENT FIXED EQUIPMENT, SIDEWALL, MILLWORK, CASEWORK, ETC..
 - FOR FURTHER DIMENSIONS, SEE ENLARGED PLANS, SECTIONS, AND ELEVATIONS.
 - CONTRACTOR IS RESPONSIBLE FOR BRACING AND BLOCKING OF WALLS RECEIVING MILLWORK/CASEWORK/CABINETS, SHELVING, TELEPHONE BOARDS, ETC. ALL WOOD BLOCKING, GROUNDS, ROUGH-BLOCKS, AND MISCELLANEOUS BLOCKING IS TO BE FIRE-RETARDANT TREATED.
 - CONTRACTOR IS TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.
 - SEE A7.40 FOR TYPICAL MOUNTING HEIGHTS OF PLUMBING FIXTURES, TOILET ACCESSORIES, FIRE ALARM DEVICES, ETC..
 - PIPING LOCATED ABOVE GRADE AND INSIDE THE BUILDING SHALL BE CONCEALED IN FURRED SPACES WITH THE EXCEPTION OF PIPING IN STAIRWAYS AND EQUIPMENT ROOMS. THE CONTRACTOR SHALL COORDINATE WITH OTHER TRADES TO PROVIDE FURRING FOR PIPING INSTALLED IN FINISHED AREAS.
 - RECESSED ITEMS (GREATER THAN 16 SQUARE INCHES) IN RATED AND/OR SMOKE WALLS INCLUDING ELECTRICAL PANELS, ELECTRICAL BOXES, MED GAS VALVE BOXES, FIRE EXTINGUISHER CABINETS, ETC. SHALL BE BACKED WITH 5/8" TYPE 'X' GYPSUM BOARD TO MAINTAIN RATING OF PARTITION.
 - CONTRACTOR SHALL SEAL AROUND ALL PIPING, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES.
 - PROVIDE SEALANT AT JUNCTURE OF INTERIOR FACES OF DOOR FRAMES, VIEW WINDOW FRAMES, EXT WINDOW FRAMES, AND MILLWORK/CASEWORK/CABINETS WITH ADJACENT MATERIALS EVEN THOUGH JOINT MAY NOT BE VISIBLE.
 - WHERE MULTIPLE SWITCHES, OUTLETS, ETC. OCCUR ADJACENT TO EACH OTHER, GANG THEM AS CLOSELY TOGETHER AS POSSIBLE.
 - TELEPHONES AND COMPUTERS ARE NOT PART OF THIS CONTRACT. EXCEPT FOR THE INSTALLATION OF CONDUITS WITH FULL STRINGS WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS. INSTALLATION OF CONDUITS OF COMPUTER SYSTEMS AND TELEPHONES WILL BE DONE BY OTHERS. THE CONTRACTOR IS EXPECTED TO FULLY COOPERATE, AND ALLOW INSTALLERS ABOVE CEILING AND TO COORDINATE WITH THE OWNER AND TENANT TO FACILITATE ORDERLY INSTALLATION OF THESE SYSTEMS.
 - PATCH ALL HOLES IN FLOOR AND KNOCK DOWN ALL HIGH AREAS AS REQUIRED, PROVIDE SMOOTH, LEVEL CONC. SLAB SURFACE READY TO RECEIVE NEW FINISHES.
 - CONTRACTOR TO COORDINATE LOCATION OF POWER ASSIST BUTTONS, EMERGENCY RELEASE BUTTONS, AND CARD READERS WITH ARCHITECT AND OWNER PRIOR TO CONSTRUCTION.
 - REFER TO STRUCTURAL DRAWINGS FOR FLOOR SLOPES AND ELEVATIONS.
 - REFER TO SHEETS A7.10 FOR DOOR SCHEDULE AND DETAILS.
 - REFER TO SHEET A7.30 FOR FINISH SELECTION SUMMARY.



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



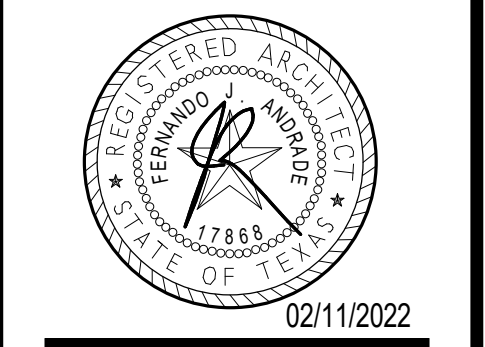
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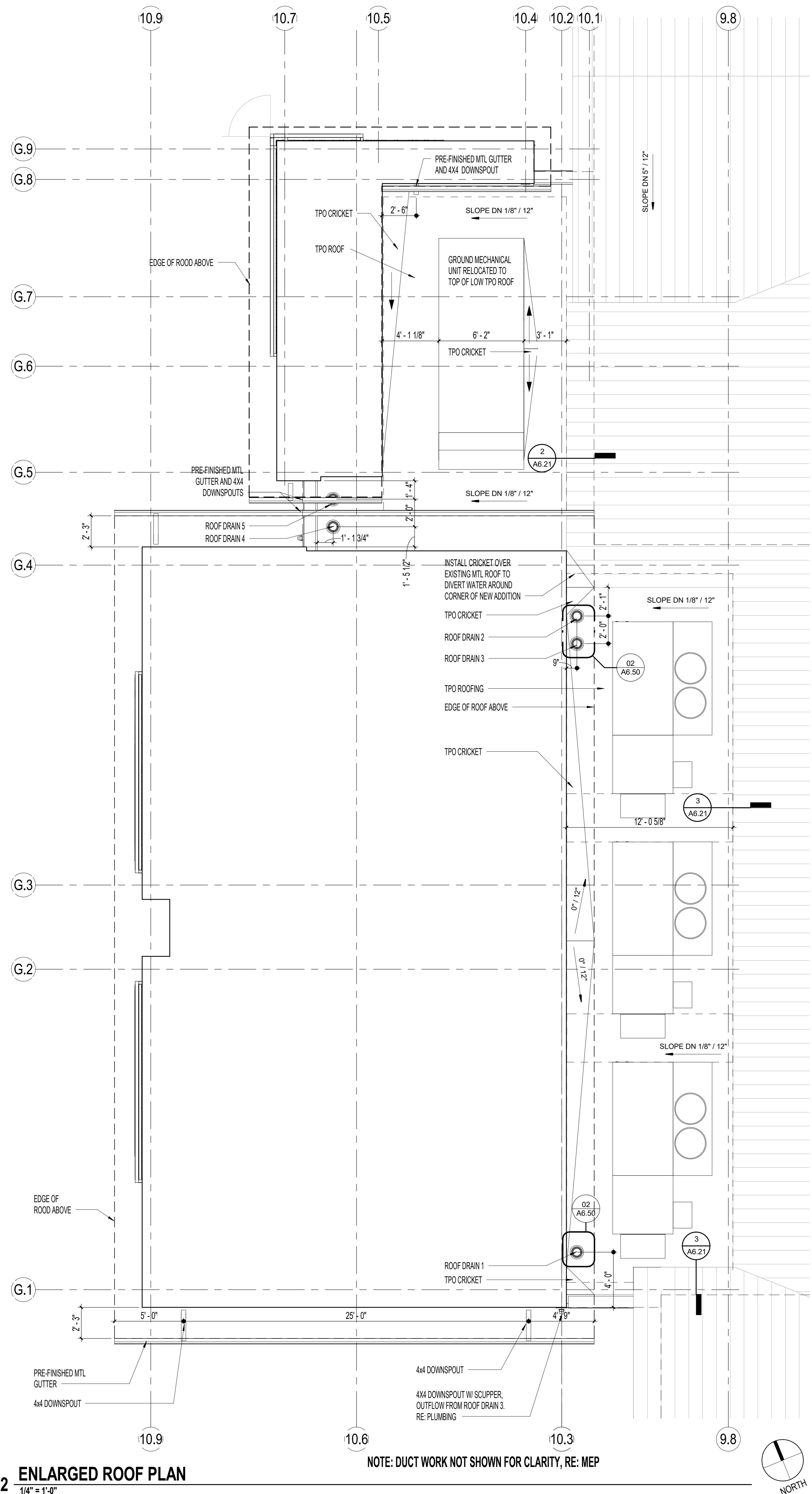


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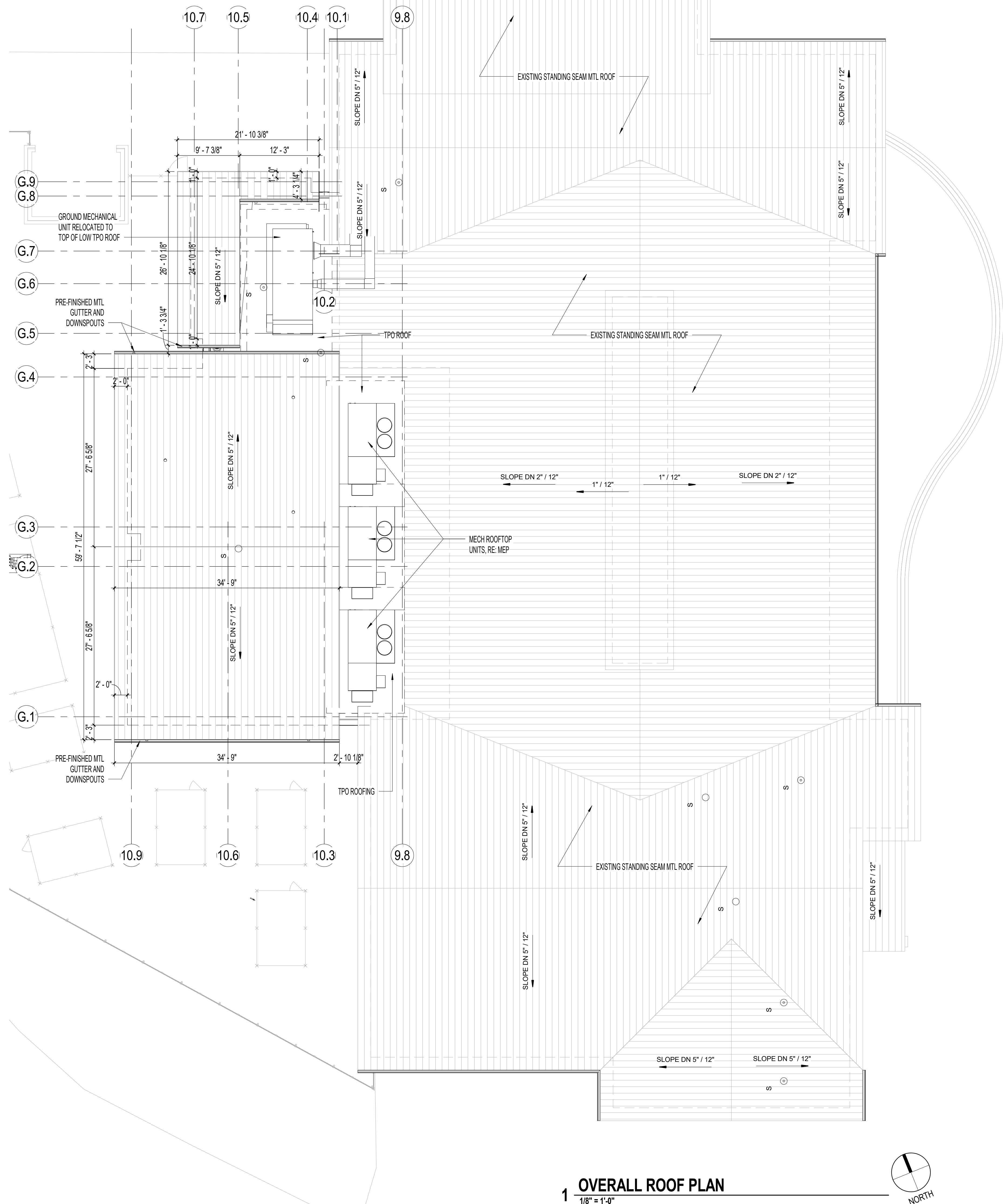
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02-11-2022
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2942
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Sheet Title:
OVERALL FLOOR PLAN
Drawing No.

A2.00



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

NOTE: DUCT WORK NOT SHOWN FOR CLARITY, RE: MEP



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

ROOF PLAN LEGEND

GENERAL NOTES:
REFER TO ELECTRICAL ROOF PLAN FOR ANTENNAS AND ELECTRICAL OUTLET LOCATIONS AND CALL OUTS.

- TAPERED INSULATION
- ROOF WALKWAY PADS PER TPO MFR.
- STANDING SEAM MTL ROOFING

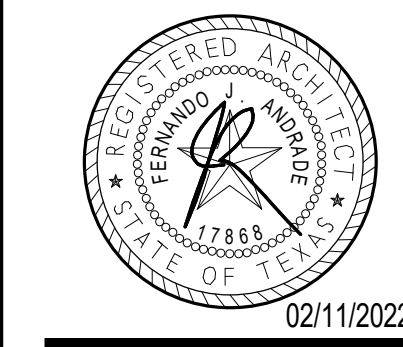
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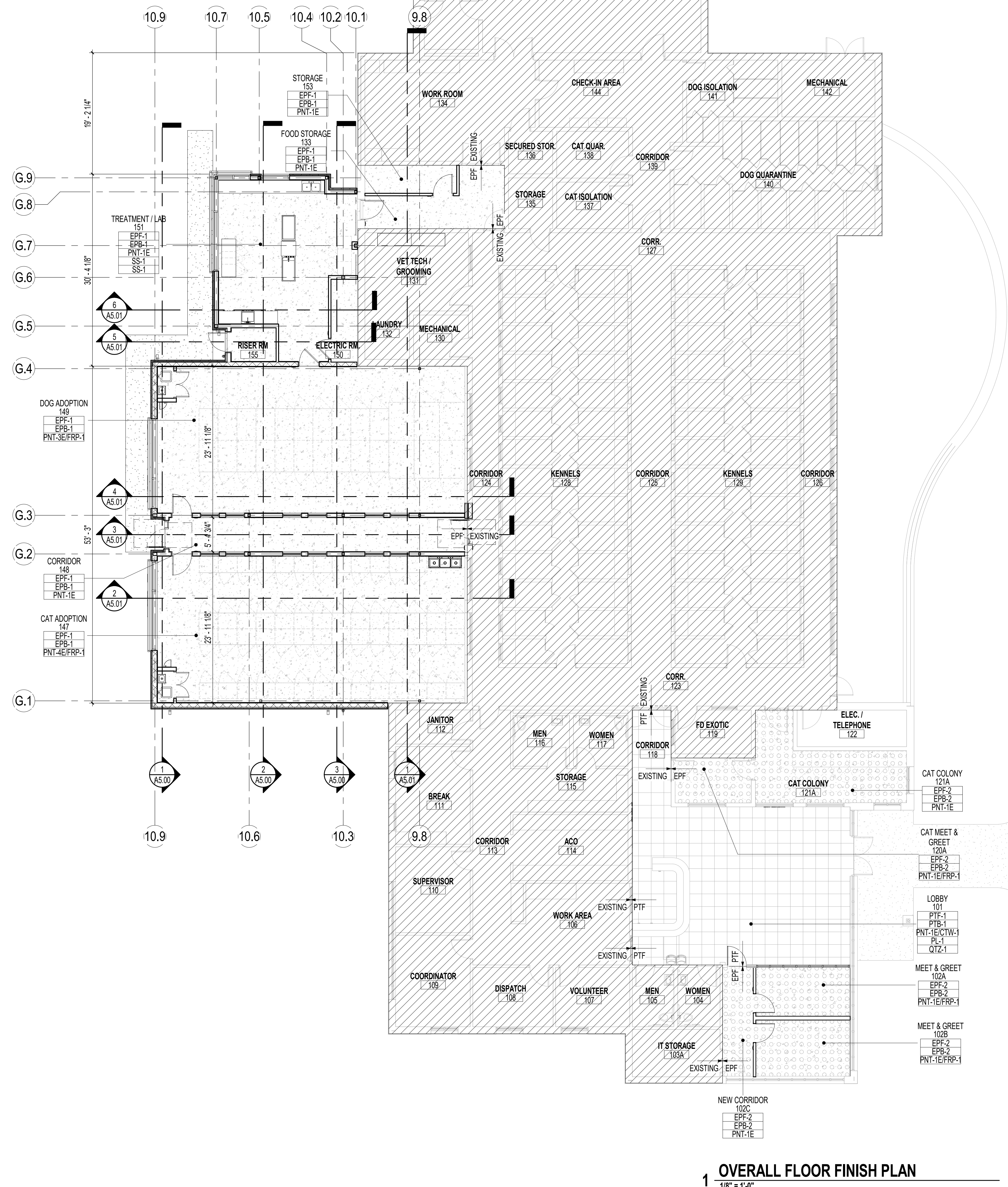
Drawn By:
OV

Checked By:
RC

Sheet Title:
OVERALL ROOF PLAN

Drawing No.

A2.10



FINISH PLAN LEGEND

INTERIOR ROOM FINISH TAG:
 ROOM NAME: 0000A TYP ROOM NUMBER
 FLOOR: TYP FLOOR FINISH
 BASE: TYP FLOOR BASE
 WALL: TYP WALL FINISHES
 CASE: TYP CASEWORK FINISH
 C-TOP: TYP COUNTERTOP FINISH

RE: INTERIOR ELEVATIONS FOR ROOMS WITH MULTIPLE WALL FINISHES

ACCENT FINISH TAG:
 PNT-X

EQUIPMENT/FURNITURE/FIXTURES BY OTHERS

EQUIPMENT/FURNITURE/FIXTURES BY CONTRACTOR

FINISH KEY:
 LUXURY VINYL TILE (EPF-1)
 EPOXY FLOORING (EPF-2)
 PORCELAIN TILE FLOOR (PTF)

FLOOR TRANSITION:
 FINISH
 FINISH

SHEET NOTES:
 - FLOORING TO CONTINUE UNDER ALL OPEN MILLWORK SURFACES UNLESS NOTED OTHERWISE
 - 6" EPOXY BASE TO MATCH FLOORING TO BE INSTALLED UNLESS NOTED OTHERWISE
 - ALL UNUSED ELECTRICAL CONNECTIONS TO BE DISCONNECTED AND ABANDONED BY A CERTIFIED ELECTRICIAN
 - ALL UNUSED ELECTRICAL CONNECTIONS TO BE DISCONNECTED AND ABANDONED BY A CERTIFIED ELECTRICIAN
 - Ref. Sheet A7.30

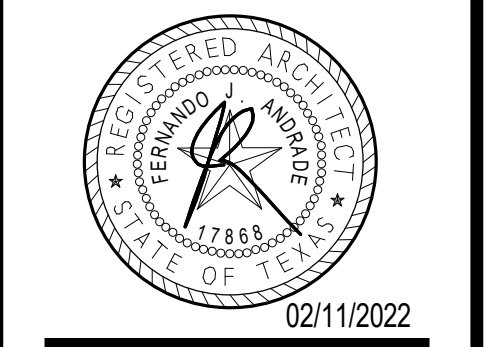
1 OVERALL FLOOR FINISH PLAN
 1/8" = 1'-0"

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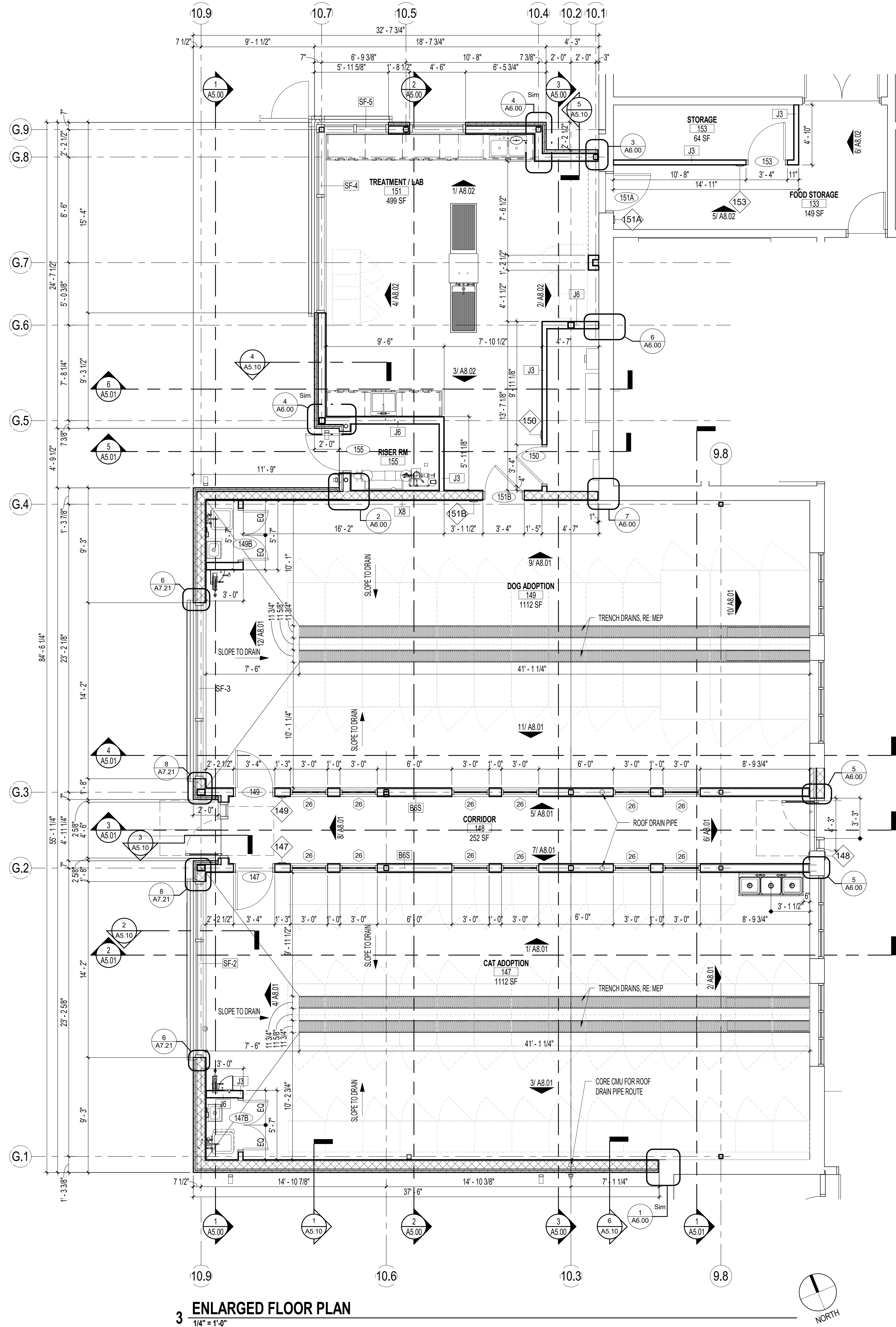


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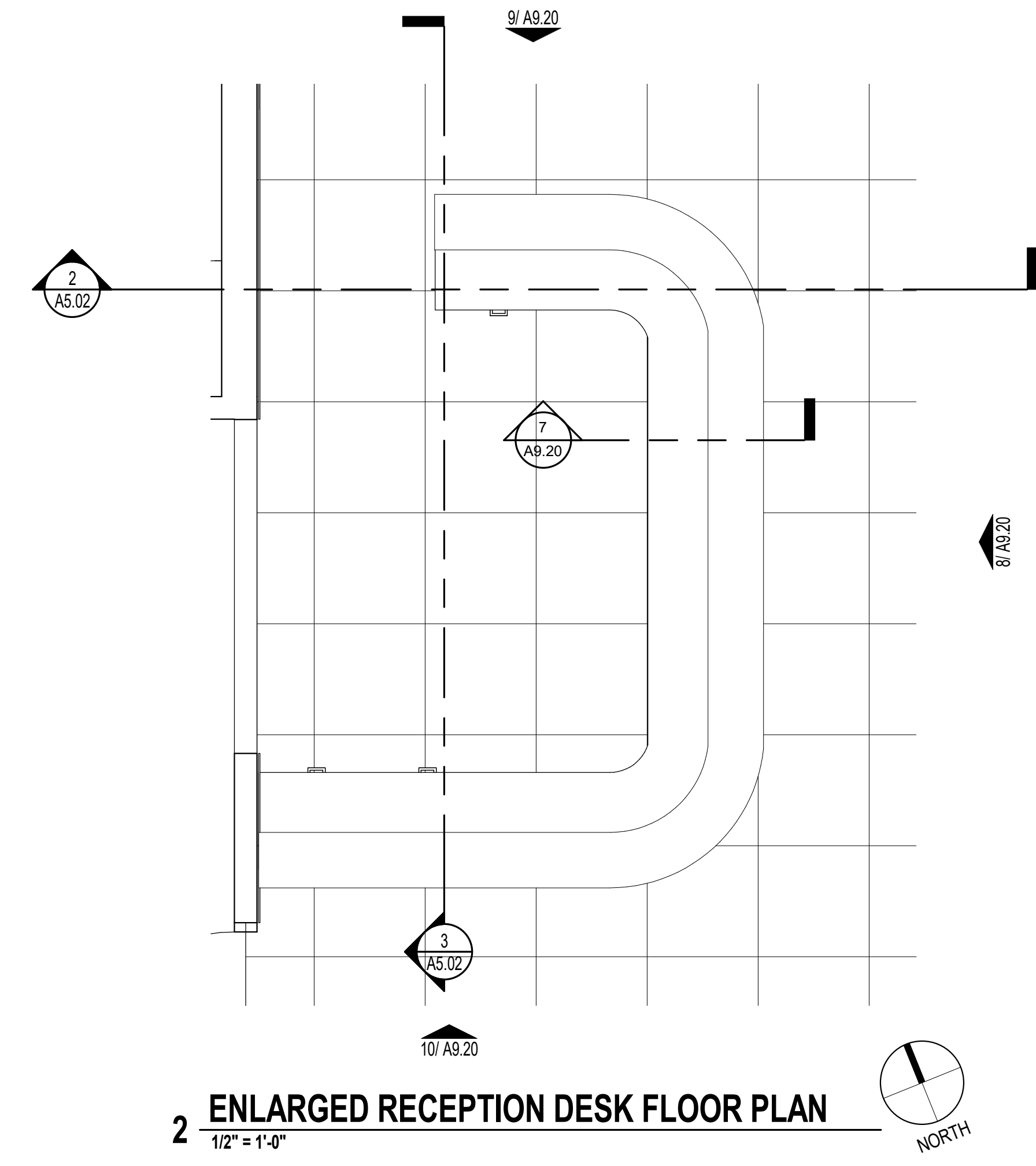
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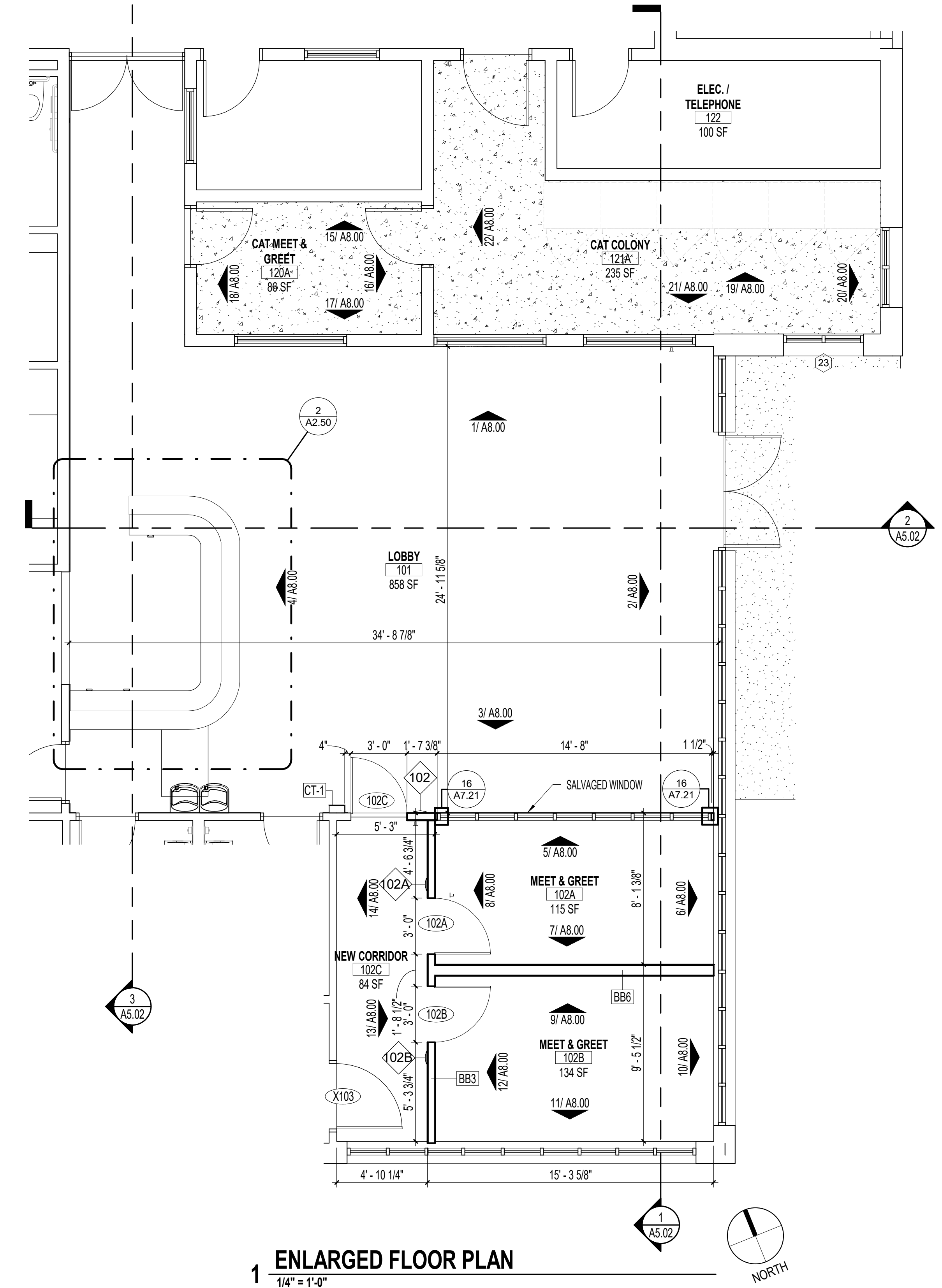
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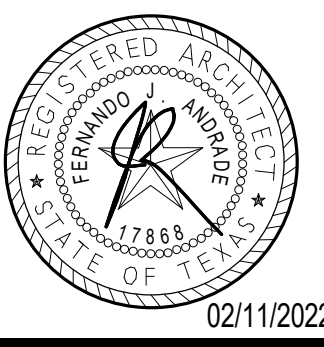
3 ENLARGED FLOOR PLAN
1/4" = 1'-0"



2 ENLARGED RECEPTION DESK FLOOR PLAN
1/2" = 1'-0"



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

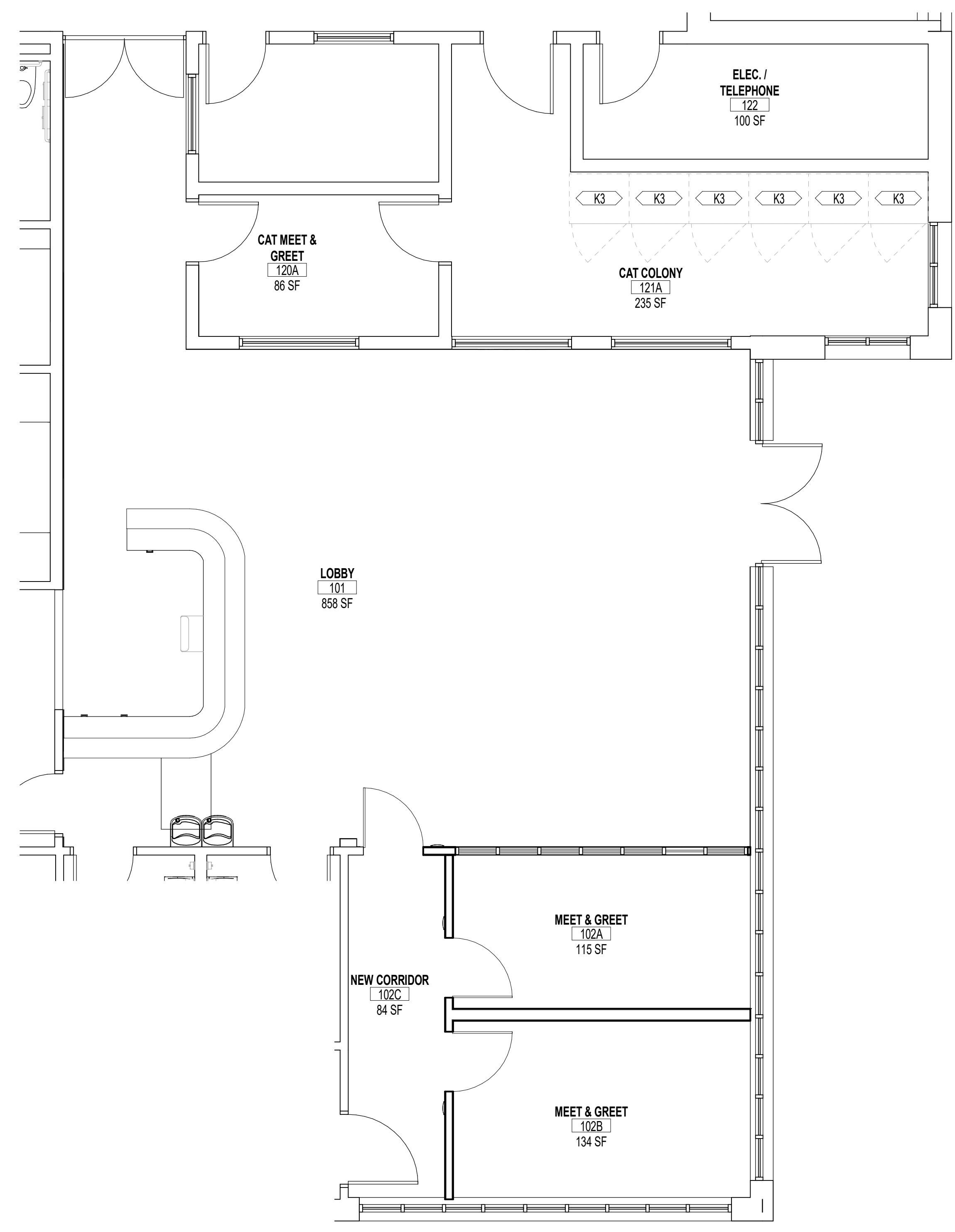


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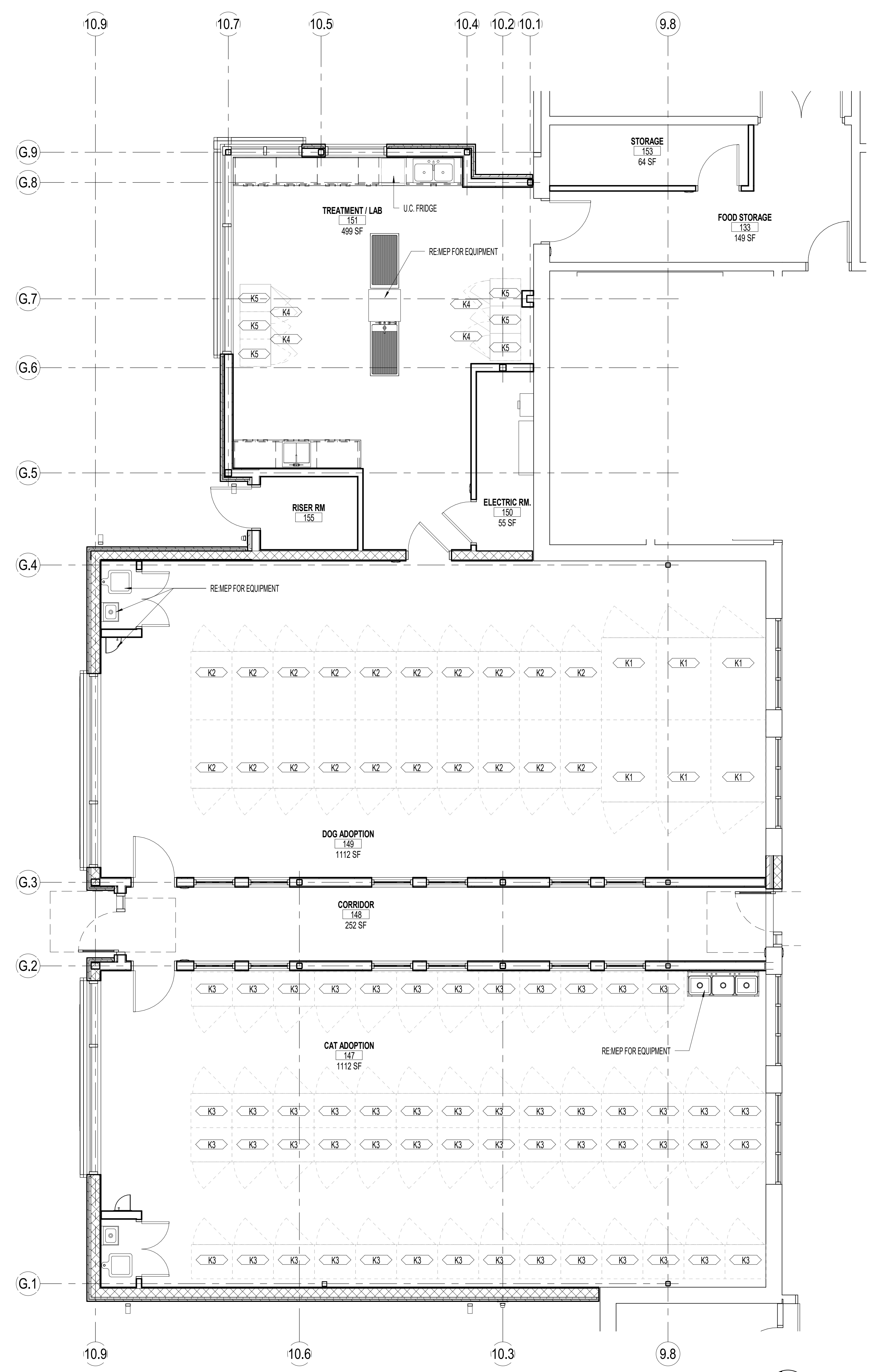
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KENNEL SCHEDULE - OWNER FURNISHED / VENDOR INSTALLED		
Type Mark	Description	Comments
K1	PRE-MANUFACTURED KENNEL, 4'-0" X 6'-0" X 6'-0"	DOG KENNEL
K2	PRE-MANUFACTURED KENNEL, 3'-0" X 5'-0" X 6'-0"	DOG KENNEL
K3	PRE-MANUFACTURED KENNEL, 3'-0" X 2'-6" X 3'-0"	CAT KENNEL
K4	PRE-MANUFACTURED KENNEL, 3'-0" X 2'-6" X 2'-3"	CLINICAL KENNEL
K5	PRE-MANUFACTURED KENNEL, 2'-0" X 2'-6" X 2'-3"	CLINICAL KENNEL



3 ENLARGED EQUIPMENT FLOOR PLAN
1/4" = 1'-0"



1 ENLARGED EQUIPMENT FLOOR PLAN
1/4" = 1'-0"

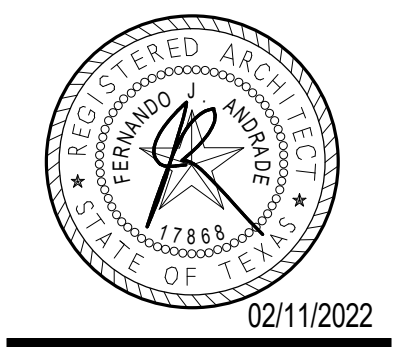
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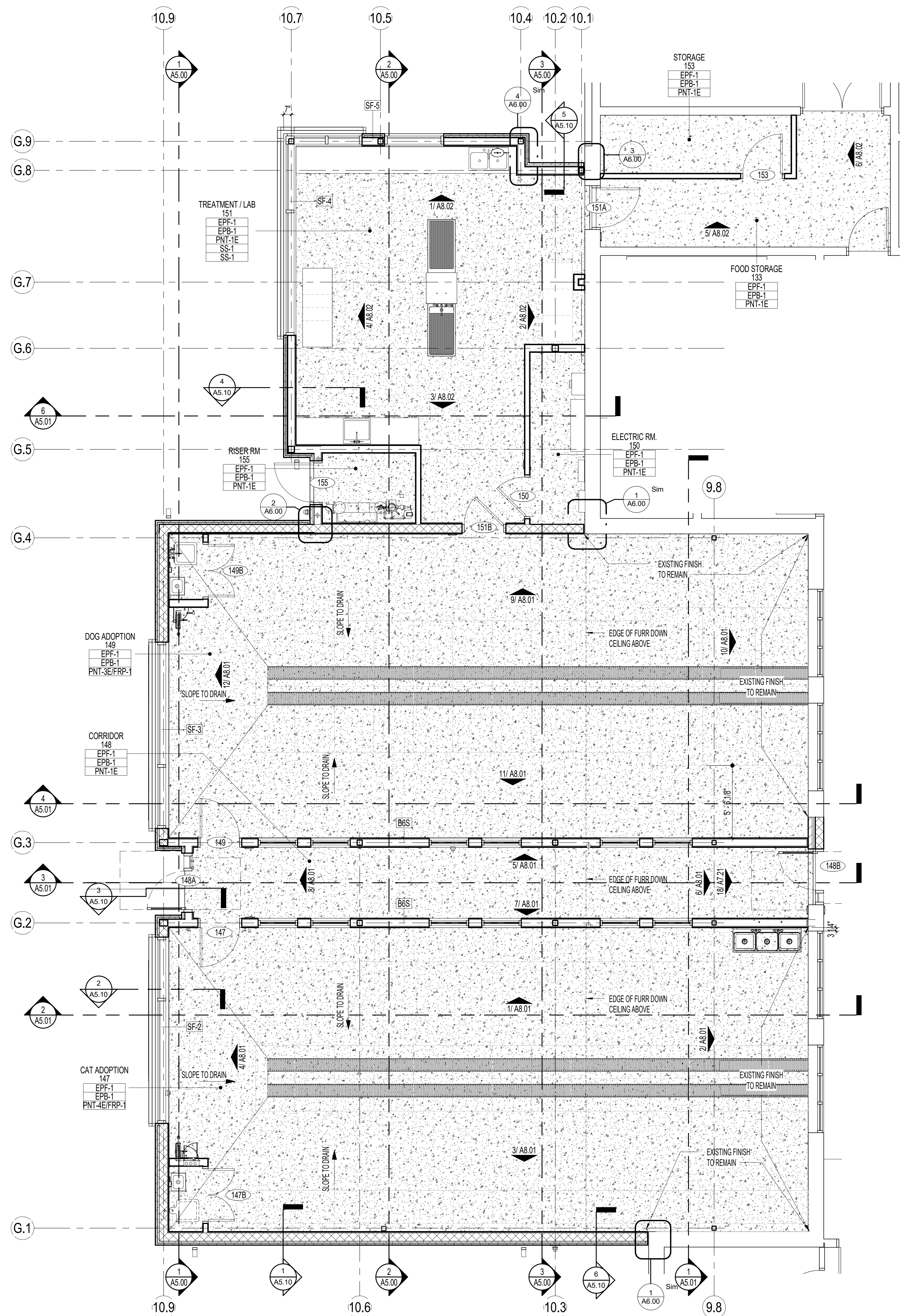


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PLANS
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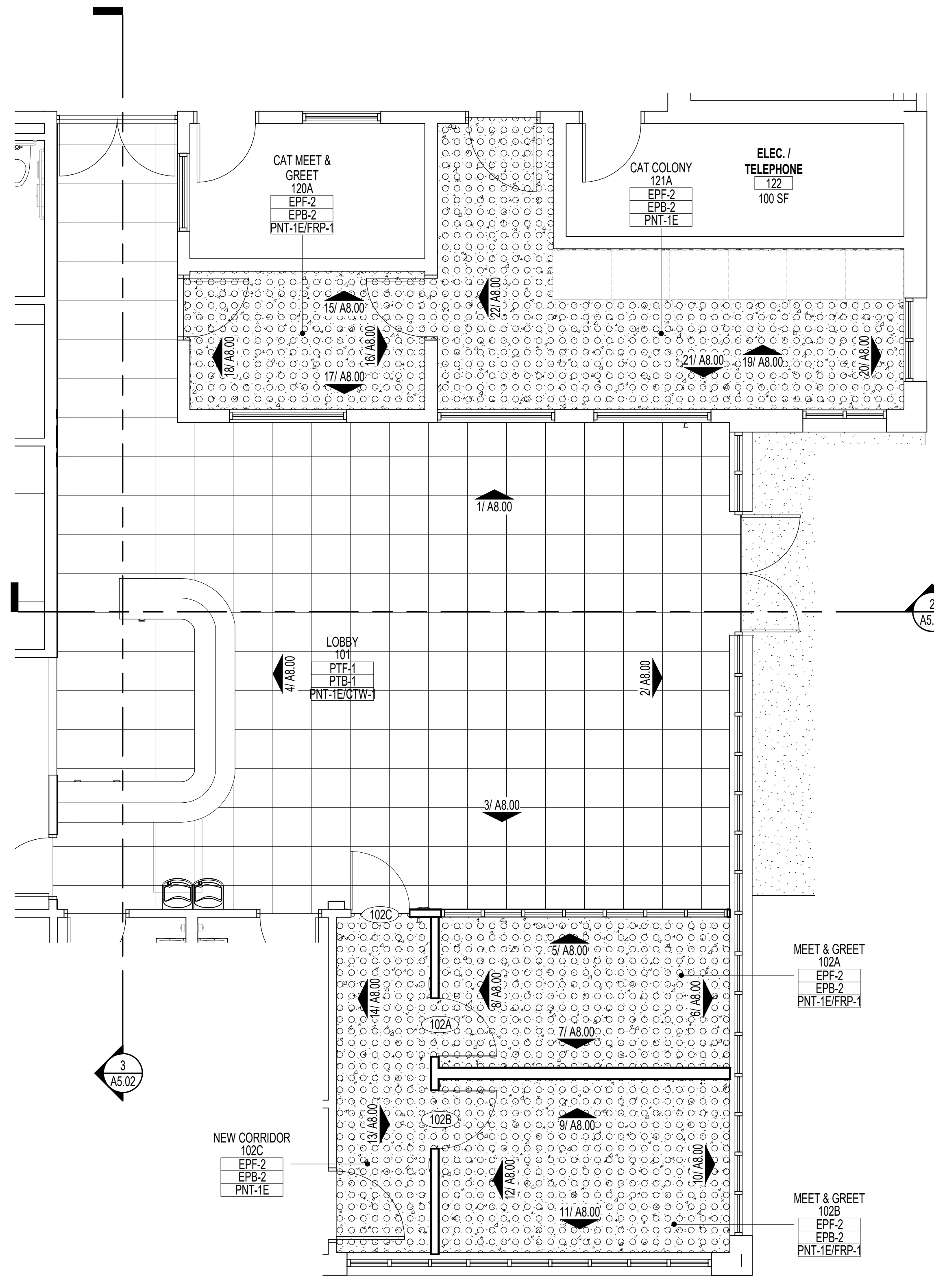
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2 ENLARGED FINISH FLOOR PLAN
1/4" = 1'-0"

MARK	MATERIAL DESCRIPTION	MANUFACTURER	PRODUCT I.D.	COLOR	FINISH	DIMENSION	NOTE
INTERIOR FINISH MATERIAL SCHEDULE							
INTERIOR FINISH MATERIAL - PAINT AND COATING							
PNT-1E	PAINT EPOXY	SHERWIN WILLIAMS		SW 7634 PEDIMENT	EPOXY		FIELD PAINT
PNT-2E	PAINT EPOXY	SHERWIN WILLIAMS		SW 6349 PENNYWISE	EPOXY		ACCENT PAINT
PNT-3E	PAINT EPOXY	SHERWIN WILLIAMS		SW 6374 TORCHLIGHT	EPOXY		ACCENT PAINT
PNT-4E	PAINT EPOXY	SHERWIN WILLIAMS		SW 9010 WINDSWEEP CANYON	EPOXY		ACCENT PAINT
PNT-5E	PAINT EPOXY	SHERWIN WILLIAMS		SW 9100 UMBER RUST	EPOXY		
PNT-6E	PAINT EPOXY	SHERWIN WILLIAMS		SW 6991 BLACK MAGIC	EPOXY		CEILING BEAMS
INTERIOR FINISH MATERIAL - CEILING							
ACT-1	ACOUSTICAL CEILING TILE	ARMSTRONG	USG MARS HEALTHCARE ACOUSTICAL PANELS	WHITE		SQUARE EDGE 2'X2'X7/8"	
MCS-1	METALWORKS CEILING SYSTEM	ARMSTRONG	METAL WORKS LINEAR	8122 CHERRY	M1 - UNPERFORATED	10'X96'X9/8"	LOBBY CEILING, CONTACT: GRACE M. JACOBS
INTERIOR FINISH MATERIAL - WALL							
CTW-1	CERAMIC TILE WALL	DALTILE	CONCRETE	BEIGE K002	GLAZED CERAMIC	2'X2" ON MOSAIC ON 12'X24" SHEETS	LOBBY LOWER WALLS, CONTACT: TAYLOR LEWIS 918.527.3320, GROUT: CUSTOM BUILDING PRODUCTS, COLOR: #186 KHALI (EPOXY GROUT)
INTERIOR FINISH MATERIAL - BASE							
EPB-1	TEXTURED EPOXY FLASH COVE BASE	STONHARD	STONTEC ERF	MOJAVE BEIGE	STANDARD TEXTURE	6" FLASH COVE BASE	CAT AND DOG ADOPTION / CLINIC / FOOD STORAGE, CONTACT: JASON MACULLA 214.680.2494
EPB-2	TEXTURED EPOXY FLASH COVE BASE	STONHARD	STONTEC ERF	DIABLO BEIGE	MEDIUM TEXTURE	6" FLASH COVE BASE	MEET & GREET, CONTACT: JASON MACULLA 214.680.2494
SB-1	SCHLUTER BASE	SCHLUTER	STAINLESS STEEL COVE BASE	DILEX-AHK SATIN ANODIZED ALUMINUM	SATIN ANODIZED ALUMINUM	LOBBY BASE AT TILE FLOORS TO WALL	
RB-1	RUBBER BASE	ARMSTRONG	COLOR INTEGRATED WALL BASE	64 FRESH TAUPE	RUBBER BASE	4"	BASE AT RECEPTION DESK ONLY
INTERIOR FINISH MATERIAL - FLOORING							
EPF-1	TEXTURED EPOXY FLOORING	STONHARD	STONTEC ERF	MOJAVE BEIGE	STANDARD TEXTURE		CAT AND DOG ADOPTION / CLINIC / FOOD STORAGE, CONTACT: JASON MACULLA 214.680.2494
EPF-2	TEXTURED EPOXY FLOORING	STONHARD	STONTEC ERF	DIABLO BEIGE	MEDIUM TEXTURE		MEET & GREET, CONTACT: JASON MACULLA 214.680.2494
PTF-1	PORCELAIN TILE FLOOR	DALTILE	CHORD COLORBOD PORCELAIN	BARITONE BROWN CH24	MATTE	24"X24"	LOBBY FLOORS, CONTACT: TAYLOR LEWIS 918.527.3320, GROUT: CUSTOM BUILDING PRODUCTS, COLOR: #186 NEW TAUPE (EPOXY GROUT)
INTERIOR FINISH MATERIAL - MILLWORK							
FRP-1	FIBERGLASS REINFORCED PLASTIC	MARLITE	F.R.P.	P145 SILVER		4'X8"	INCLUDE ALL TRIMS AT CORNERS, TOP AND BASE
QTZ-1	QUARTZ	WILSONART		DESERT WIND Q401			RECEPTION DESK COUNTER, LISA PORTILLO 254.721.2374
PL-1	PLASTIC LAMINATE	FORMICA		6413-NG SILVER RIFTWOOD	NATURAL GRAIN		RECEPTION DESK FRONT,
SS-1	STAINLESS STEEL	WILSONART	STAINLESS STEEL MILLWORK	STAINLESS STEEL 316	STAINLESS STEEL		MILLWORK AND COUNTER TOPS FOR CAT ADOPTION, DOG ADOPTION, TREATMENT/LAB
INTERIOR FINISH MATERIAL - SPECIALTY							
GL-1	INTERIOR GLAZING PARTITION						
CG-1	CORNER GUARD	SCHLUTER	ECKK	BRUSHED STAINLESS STEEL	STAINLESS		
INTERIOR FINISH MATERIAL - TRIM / TRANSITIONS							
TT-1	TILE TRIM	SCHLUTER	JOLLY	BRUSHED CHROME			LOBBY TILE TRIM
TT-2	TILE TRIM	SCHLUTER	JOLLY	ACGB BRUSHED CHROME ANODIZED ALUMINUM			LOBBY TILE EDGE CORNERS
TS-1	TRANSITION STRIP	SCHLUTER	SCHENE	SATIN ANODIZED ALUMINUM	AE		EPOXY TO TILE AND EPOXY TO EPOXY DIVIDER STRIP

- FINISH GENERAL NOTES**
- REFER TO FINISH SELECTION SUMMARY (SPECIFICATIONS SECTION 01 12 00 AND SHEET A7.30) FOR EXPLANATION OF FINISH DESIGNATIONS.
 - REFER TO PLANS, ELEVATIONS, AND DETAILS FOR EXTENT OF FINISHES WHEN MULTIPLE FINISHES ARE INDICATED IN THE SCHEDULE.
 - INTERIOR FINISHES MATERIALS AND THE INSTALLATION PROCESS SHALL BE IN COMPLIANCE WITH ALL LOCAL GOVERNING CODES INCLUDING BUT NOT LIMITED TO FLAMMABILITY RATINGS AND VOLATILE ORGANIC COMPOUND REQUIREMENTS
 - OWNER TO APPROVE ALL FINISHES PRIOR TO CONSTRUCTION. CONTRACTOR AND SUB-CONTRACTORS TO SUBMIT SAMPLES FOR APPROVAL.
 - CONTRACTOR IS RESPONSIBLE FOR CROSS REFERENCING FINISH NOTES BETWEEN PLANS, REFLECTED CEILING PLANS, AND ELEVATIONS. IF A DISCREPANCY IS FOUND, CONTACT ARCHITECT FOR INSTRUCTION.
 - CONTRACTOR IS TO PROVIDE FLOOR LEVELING AS REQUIRED. PROVIDE FLOOR TOLERANCES ACCEPTABLE FOR FLOORING INSTALLATION AS REQUIRED BY THE ADA, TAS, AND MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTOR TO ENSURE PROPER FLOOR PREP AND PROTECTION OF CONCRETE THAT IS TO RECEIVE STAINING BEFORE AND AFTER STAINING PROCESS.
 - CONTRACTOR SHALL INSPECT ALL SURFACES SCHEDULED TO RECEIVE NEW FINISH MATERIALS AND VERIFY THAT CONDITIONS ARE SUITABLE FOR APPLICATION OF FINISH MATERIAL PRIOR TO INSTALLATION INCLUDING, BUT NOT LIMITED TO, PROVIDING A SURFACE THAT IS DRY, CLEAN AND FREE OF OIL, GREASE, MILDEW, LOOSE AND FLAKING PAINT AND/OR ANY OTHER FOREIGN SUBSTANCES. IF FOUND, CONTACT ARCHITECT FOR DIRECTION.
 - ALL FLOOR TRANSITIONS TO OCCUR BELOW THE CENTER OF DOORS UNLESS NOTED OTHERWISE. ARCHITECT TO APPROVE TRANSITION STRIPS PRIOR TO CONSTRUCTION.
 - REFER TO A7.30 FOR FLOOR TRANSITION DETAILS.
 - ALL FLOOR TILE TO BE FLUSH AND NON-SLIP. PROVIDE TRANSITION MATERIALS AS SHOWN.
 - PAINT ALL WALL AND CEILING ELECTRICAL AND ACCESS PANELS TO MATCH ADJACENT FINISH.
 - REFER TO REFLECTED CEILING PLANS AND ELEVATIONS FOR ALL ACCENT FURR DOWN FINISHES.
 - REFER TO WALL PROTECTION PLANS FOR WALL PROTECTION AND CORNER GUARD LOCATIONS.
 - CONTRACTOR SHALL NOTIFY ARCHITECT OF ANY SURFACES NOT HAVING A FINISH SPECIFIED PRIOR TO CONSTRUCTION.
 - REFER TO ELEVATIONS FOR ADDITIONAL FINISH INFORMATION RELATING TO ALL MILLWORK.
 - REFER TO REFLECTED CEILING PLANS FOR NOTES AND DETAILS.
 - REFER TO SHEET A9.20 FOR MILLWORK DETAILS.
 - HOLLOW METAL DOOR AND FRAMES TO BE PAINTED.

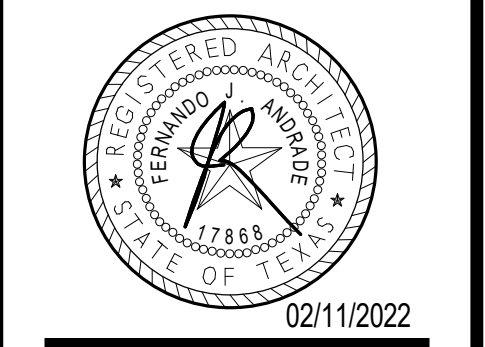


1 ENLARGED FINISH FLOOR PLAN
1/4" = 1'-0"

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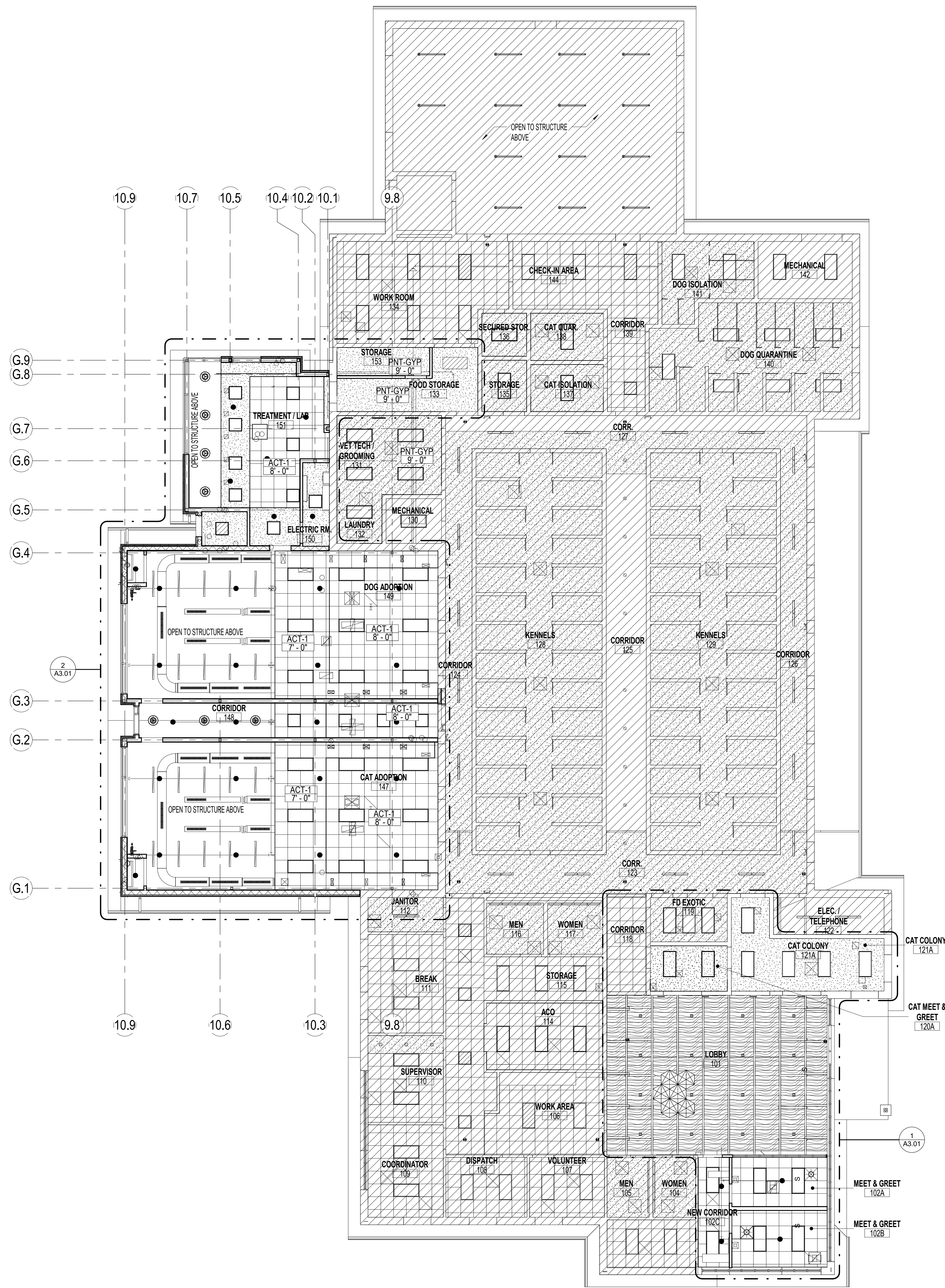


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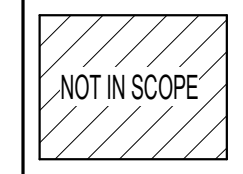
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Drawing No.

A2.52



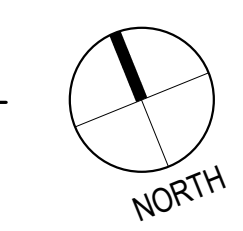
- ### RCP GENERAL NOTES
- REFER TO ELECTRICAL PLANS FOR FIXTURE TYPES
 - ALL DIMENSIONS ARE MEASURED HORIZONTALLY. ADJUST DIMENSIONS FOR SLOPE OF CEILING WHEN APPLICABLE
 - LOCATE LIGHT FIXTURES NOT DIMENSIONED IN THE CENTER OF, OR EQUALLY SPACED WITH THE CEILING PANEL/TILE, OR IN ALIGNMENT WITH OTHER FIXTURES. SHOULD THERE BE ANY QUESTIONS ABOUT PLACEMENT OF LIGHT FIXTURES OR EXIT SIGNS, PLEASE CONTACT ARCHITECT PRIOR TO INSTALLATION.
 - VERIFY LOCATION OF ANY ACCESS PANELS REQUIRED FOR WATER VALVES, HVAC EQUIPMENT, MEDICAL EQUIPMENT WITH ARCHITECT PRIOR TO INSTALLATION OF ACCESS PANELS. FINISH ACCESS PANELS TO MATCH ADJACENT CEILING FINISH.
 - COORDINATE PLACEMENT OF LIGHT FIXTURES IN MECHANICAL ROOMS WITH EQUIPMENT INSTALLED.
 - ALL CEILING GRIDS ARE TO BE CENTERED WITHIN THE SPACE EACH WAY, OR AS DIMENSIONED.
 - COORDINATE WITH ELECTRICAL FOR LOCATIONS OF SMOKE DETECTORS AND EXIT SIGNS. LOCATE SMOKE DETECTORS AND EXIT SIGNS IN THE CENTER OF OR EQUALLY SPACED WITHIN THE OTHER CEILING COMPONENTS.
 - LOCATE HVAC SUPPLY, RETURN, AND EXHAUST GRILLES NOT DIMENSIONED WITHIN THE CEILING TILES AS INDICATED OR CENTERED BETWEEN LIGHTS ALONG THEIR COMMON CENTERLINE, OR WHEN IN A CORNER, 9' EACH WAY FROM THE ADJACENT PARTITION.
 - CONTRACTOR TO NOTIFY ARCHITECT IF FLOOR PENETRATIONS CONFLICT WITH STRUCTURAL ELEMENTS, DUCTWORK, ETC. PRIOR TO PROCEEDING WITH WORK.
 - UNLESS NOTED OTHERWISE, ALL SPRINKLER HEADS IN PUBLIC AREAS TO BE ARRANGED SYMMETRICALLY AND IN ALIGNMENT. VERIFY WITH ARCHITECT PRIOR TO INSTALLATION.
 - REFER TO SHEETS A3.00 FOR CEILING HEIGHTS.
 - CONTRACTOR TO PROVIDE 2X2 CEILING TILES CUT TO FIT AT ALL LOCATIONS WHERE THE CEILING TILES ARE 3' OR LESS IN WIDTH.
 - ALL LIGHTS, HVAC DIFFUSERS, RETURN AIR GRILLES, ETC. TO BE LOCATED PER THE ARCHITECTURAL PLANS. COORDINATE WITH MEP, EQUIPMENT, AND ALL ADDITIONAL CONSULTANT DRAWINGS. ANY DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DRAWINGS TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
 - MEP RELATED SYMBOLS ARE ILLUSTRATED FOR COORDINATING THE PROPER LOCATION OF DEVICES IN THE COMMON SPACES ONLY. ANY DISCREPANCIES BETWEEN MEP AND ARCHITECTURAL DRAWINGS ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT PRIOR TO CONSTRUCTION.
 - SEISMIC BRACING OF SUSPENDED CEILING SYSTEMS TO COMPLY WITH ALL LOCAL AND STATE CODES.
 - GC TO PROVIDE PRE-CONSTRUCTION MEETIN WITH ALL INTERIOR FINISH OUT TRADES. PRIOR TO ANY INTERIOR FINISH CONSTRUCTION.
 - ALL EXPOSED STRUCTURE AND METAL DECK TO RECEIVE PNT-X.
 - ALL MEP DUCTWORK, ACCESSORIES, TRIMS, CONDUITS, HOUSINGS, ECT. TO RECEIVE PNT COLOR TO MATCH ADJACENT SURFACES.



REFLECTED CEILING PLAN LEGEND

	FLUORESCENT DOWN LIGHT - RECESSED, REF. ELECTRICAL FOR LENSED TYPE LOCATION		2X2 CEILING GRID - WHITE
	EXIT LIGHT		2X2 ACOUSTICAL CEILING TILE - REF. TO A7.20 FOR TYPE
	WALL MOUNTED EMERGENCY SITE LITE		CENTER SPRINKLER HEAD IN CEILING TILE AND ALONG CORRIDORS
	CEILING HUNG FLUORESCENT STRIP LIGHT FIXTURE		EXPOSED TO STRUCTURE, PAINT EXPOSED STRUCTURE PNT-1
	CABINET LIGHT FIXTURES		ABOVE CABINET LIGHT FIXTURES
	EMERGENCY BATTERY PACK LIGHT FIXTURE, CEILING/WALL MOUNTED		UNDER CABINET LIGHT FIXTURES
	ACCESS PANEL - COORDINATE LOCATION WITH ARCHITECT PRIOR TO INSTALLATION		WALL MOUNT STRIPLIGHT
	RECESS MOUNTED, 2X4 LIGHT FIXTURE		RETURN AIR DIFFUSER
	RECESS MOUNTED, 2X2 LIGHT FIXTURE		ACOUSTICAL CEILING TILE (ACT) - REF. TO FINISH SELECTION SUMMARY & ROOM FINISH SCHEDULE FOR ACT TYPE.
	RECESS MOUNTED, TROFFER 2X4 LIGHT FIXTURE		GYP. BD. CEILING - REF. RCP & ROOM FINISH SCHEDULE FOR PNT
	RECESS MOUNTED, LENSED TROFFER 2X2 FLUORESCENT LIGHT FIXTURE		
	SUPPLY AIR DIFFUSER		

1 GROUND FLOOR REFLECTED CEILING PLAN
1/8" = 1'-0"

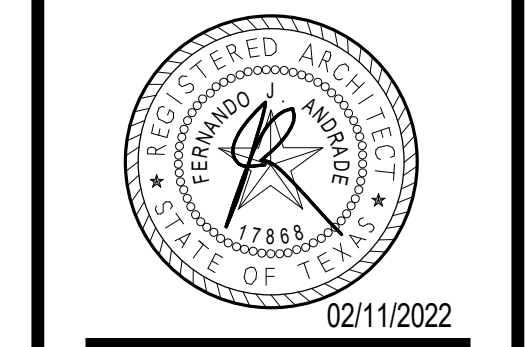


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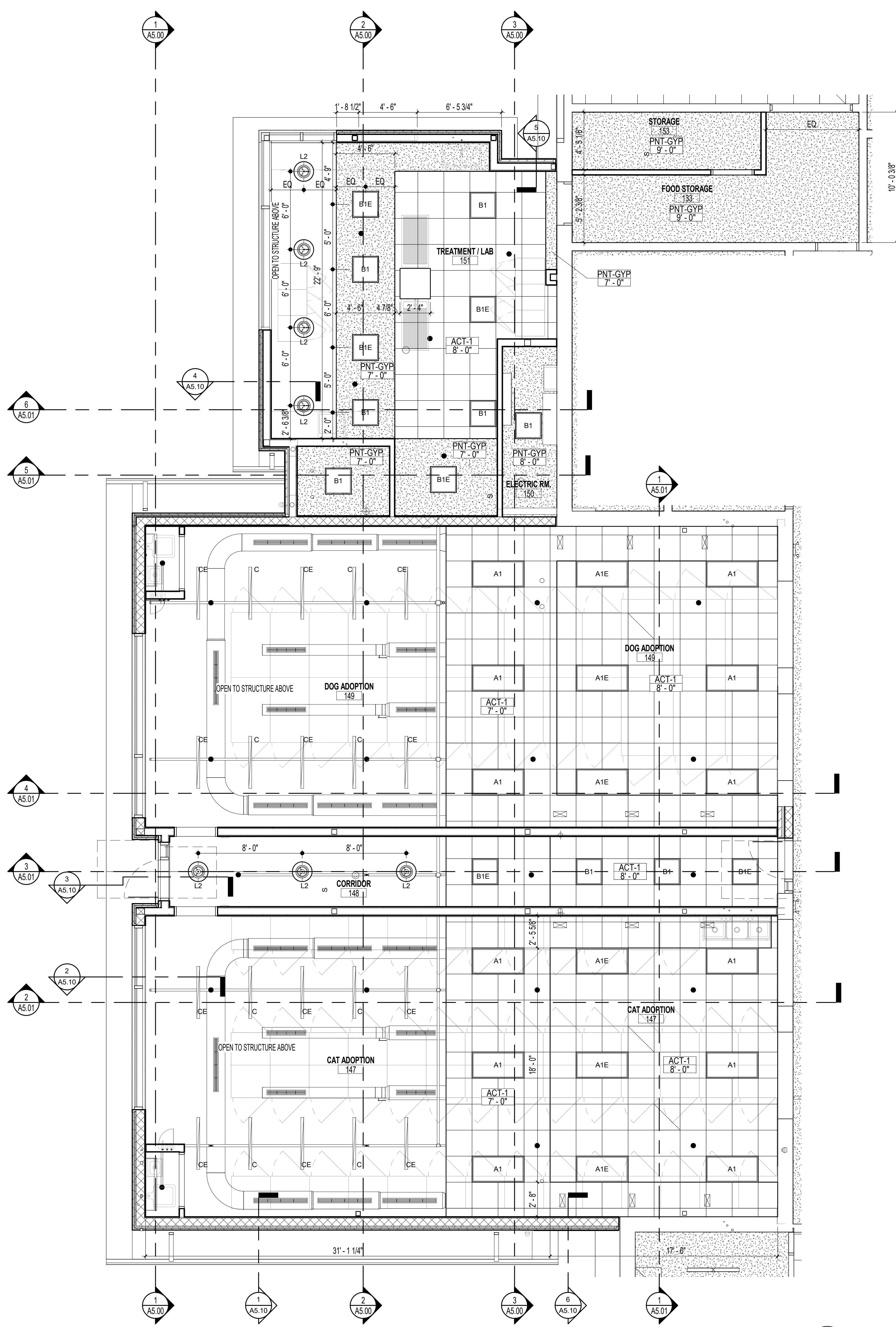
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Drawing No.

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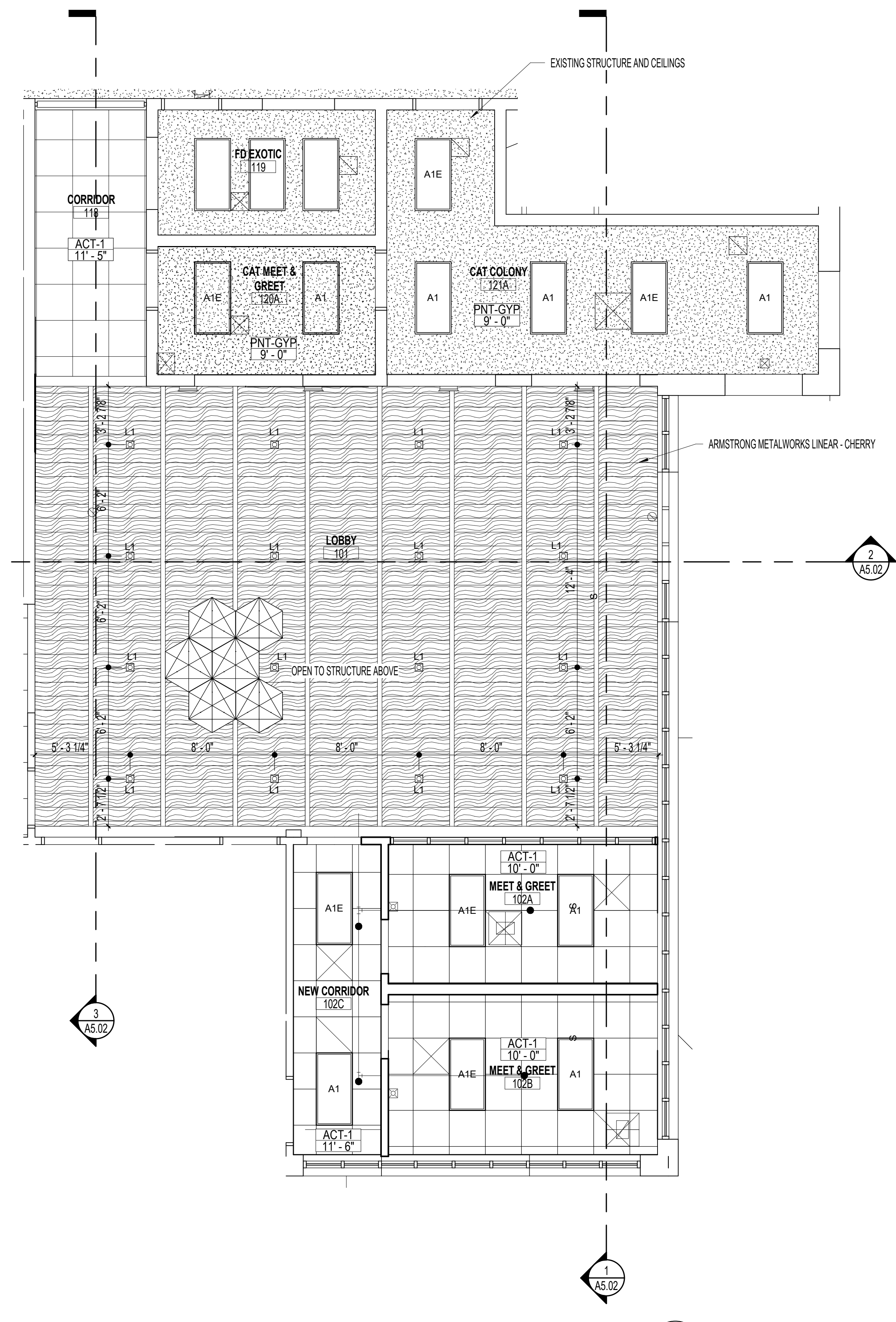
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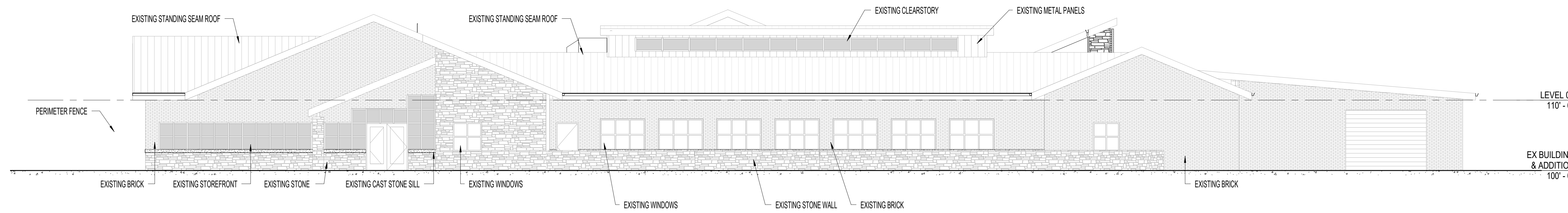
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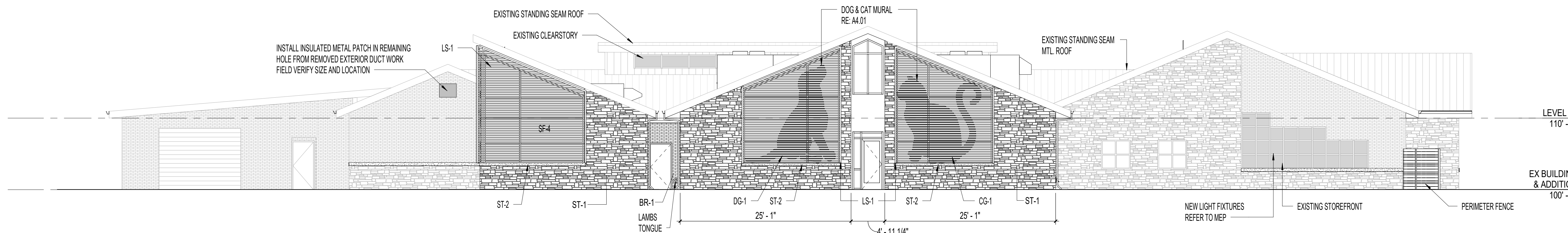
2 ENLARGED REFLECTED CEILING PLAN
 1/4" = 1'-0"



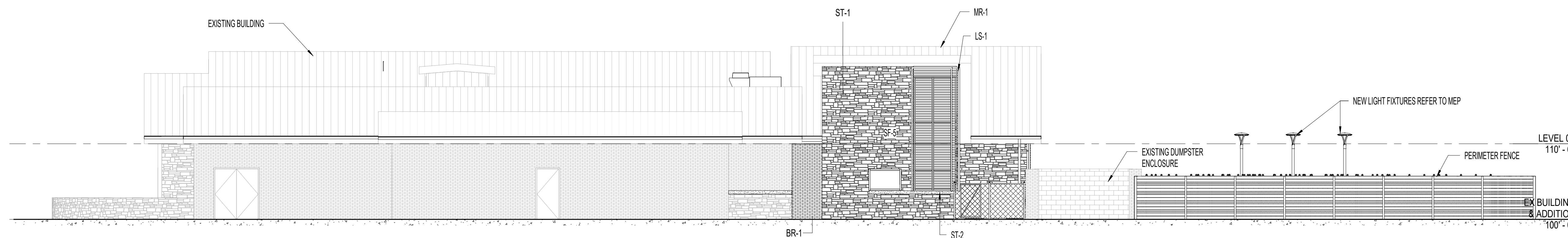
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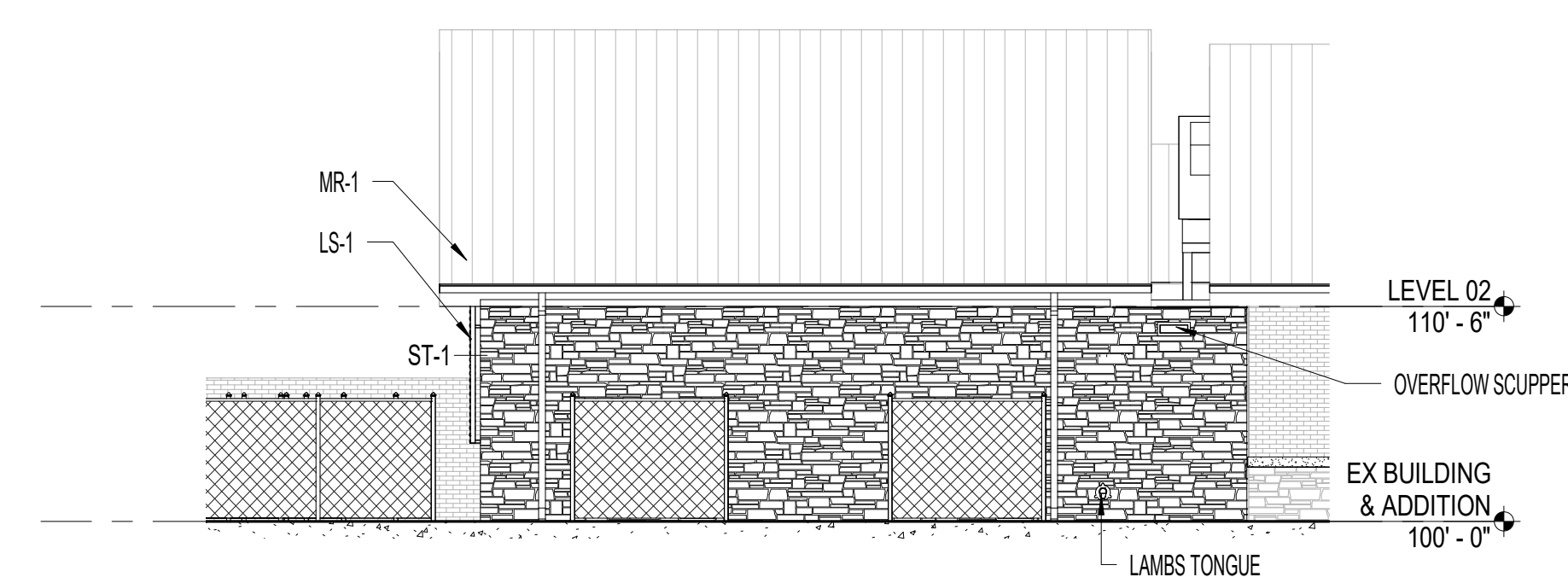
1 EAST EXISTING ELEVATION
1/8" = 1'-0"



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



3 NORTH ELEVATION
1/8" = 1'-0"



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

EXTERIOR FINISH LEGEND				
BRICK VENEER:				
KEY:	MANUFACTURER:	COLOR:	DESCRIPTION:	SEALANT:
BR-1	ACME (BASIS OF DESIGN)	QUORUM OR OLD ROCKWALL	THIN BRICK MATCH EXISTING COLOR AND SEAL	TBD
STONE VENEER:				
KEY:	MANUFACTURER:	COLOR:	DESCRIPTION:	SEALANT:
ST-1	CORONADO (BASIS OF DESIGN)	TEXAS CREAM	TEXAS RUBBLE 1 1/2" THICK ON 1/2" METAL LATH	TBD
ST-2	CORONADO (BASIS OF DESIGN)	OFF WHITE	900 SERIES SILL	TBD
STANDING SEAM METAL ROOF:				
KEY:	MANUFACTURER:	COLOR:	DESCRIPTION:	SEALANT:
MR-1	TBD	TBD	TBD - MR-1 MATCH EXISTING COLOR AND SEAL	TBD
LOUVER SCREEN:				
KEY:	MANUFACTURER:	COLOR:	DESCRIPTION:	SEALANT:
LS-1	TBD	TBD	TBD	TBD
DG-1	TBD	TBD	DOG GRAPHIC	TBD
CG-1	TBD	TBD	CAT GRAPHIC	TBD
METALS - PREFINISHED ALUMINUM: COPINGS, CONDUCTOR HEADS, AND DOWNSPOUTS				
ALUMINUM STOREFRONT WINDOWS/DOORS:				
MANUFACTURER:	COLOR:	DESCRIPTION:	SEALANT:	
KAWNEER (BASIS OF DESIGN)	CLEAR ANODIZED ALUMINUM	2" x 1/2" & 6"x6" MULLIONS	TBD	
GENERAL NOTES:				
REFER TO PLAN SECTION CALLOUTS FOR DETAILS.				
FINISH COLORS SHALL BE BEST / CLOSEST MATCH TO EXISTING COLOR AND PATTERN				

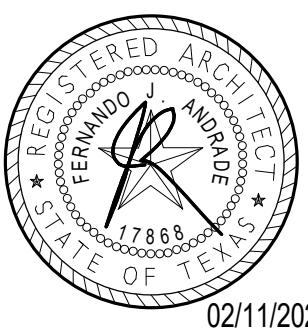
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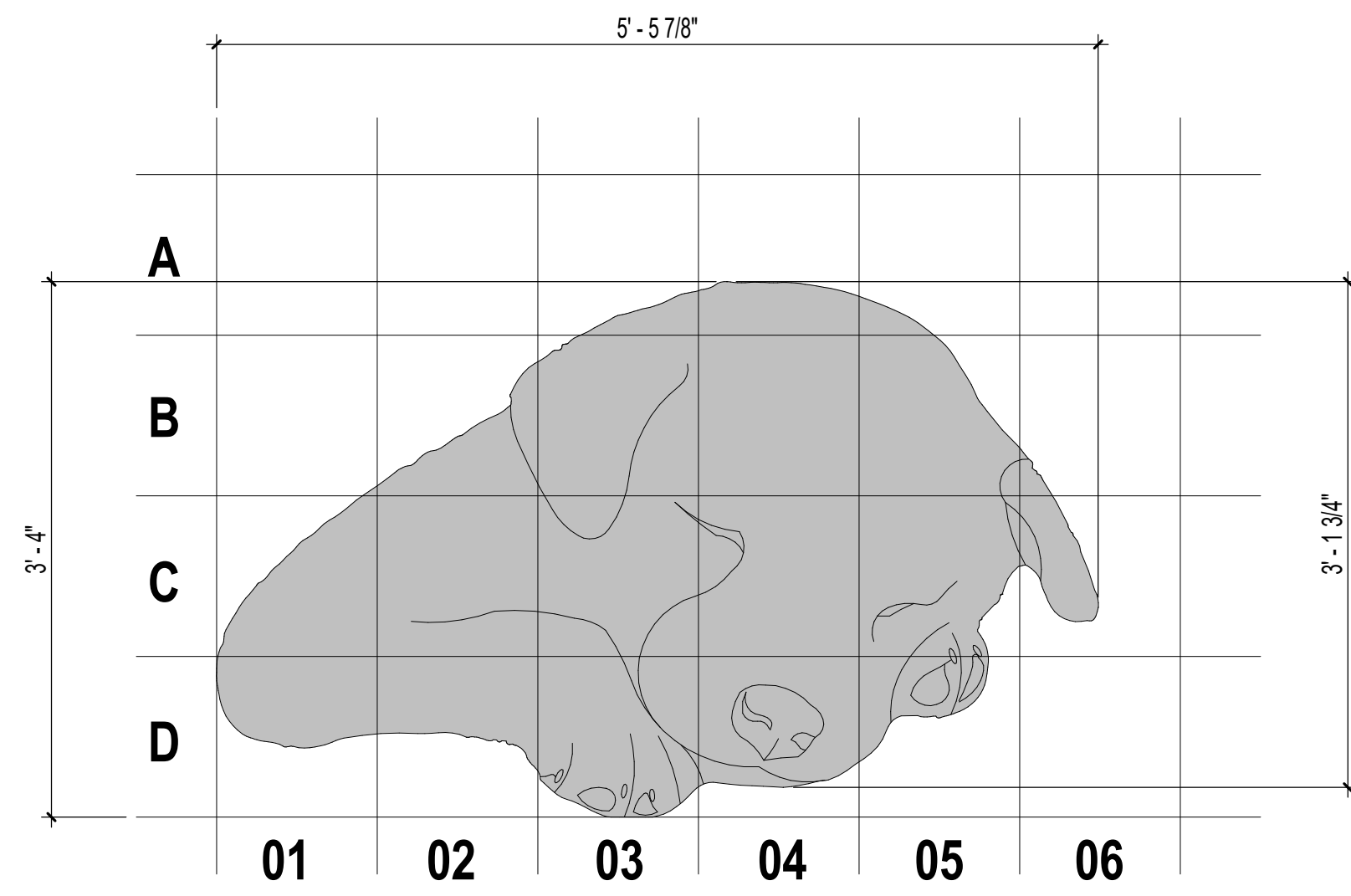


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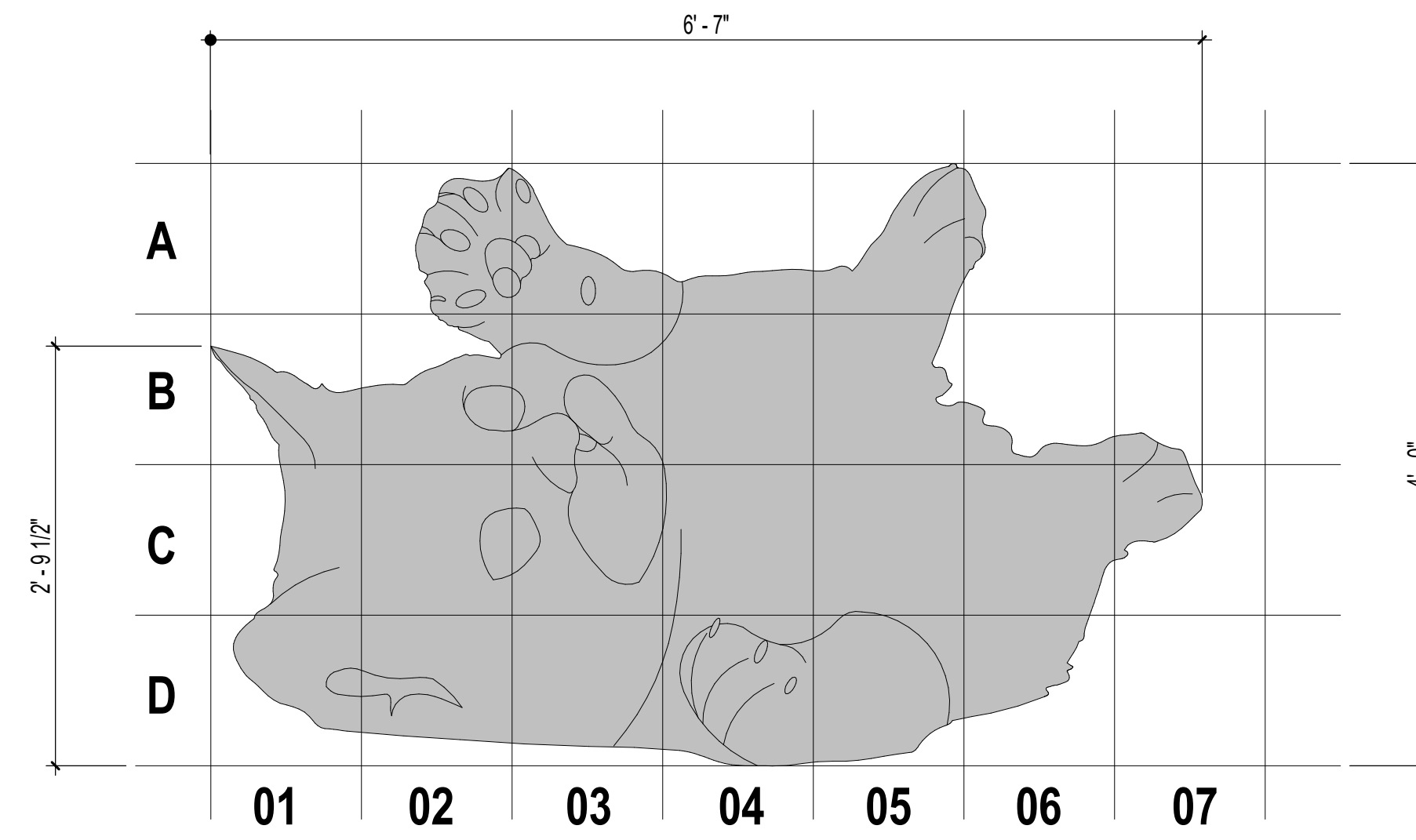
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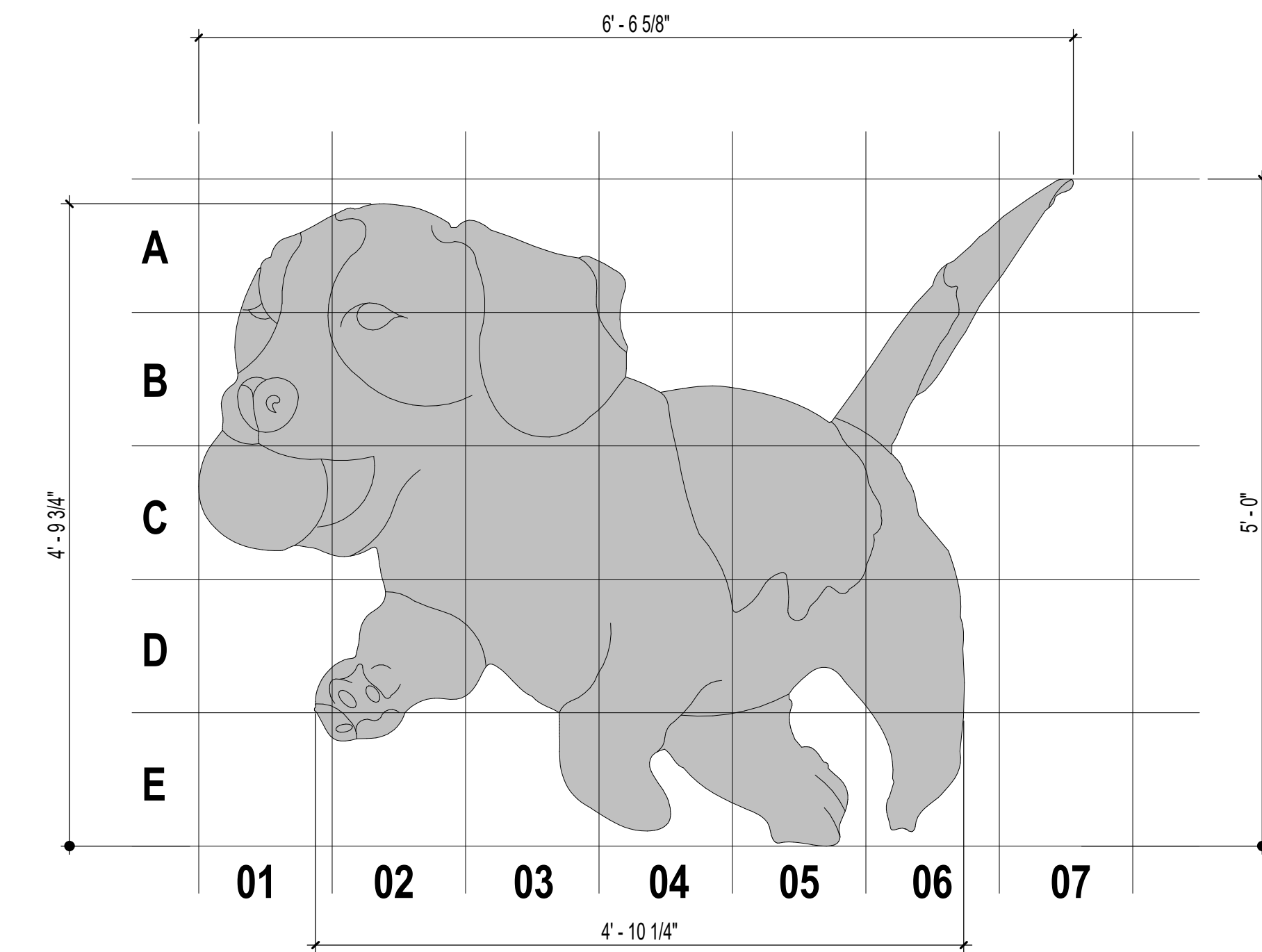
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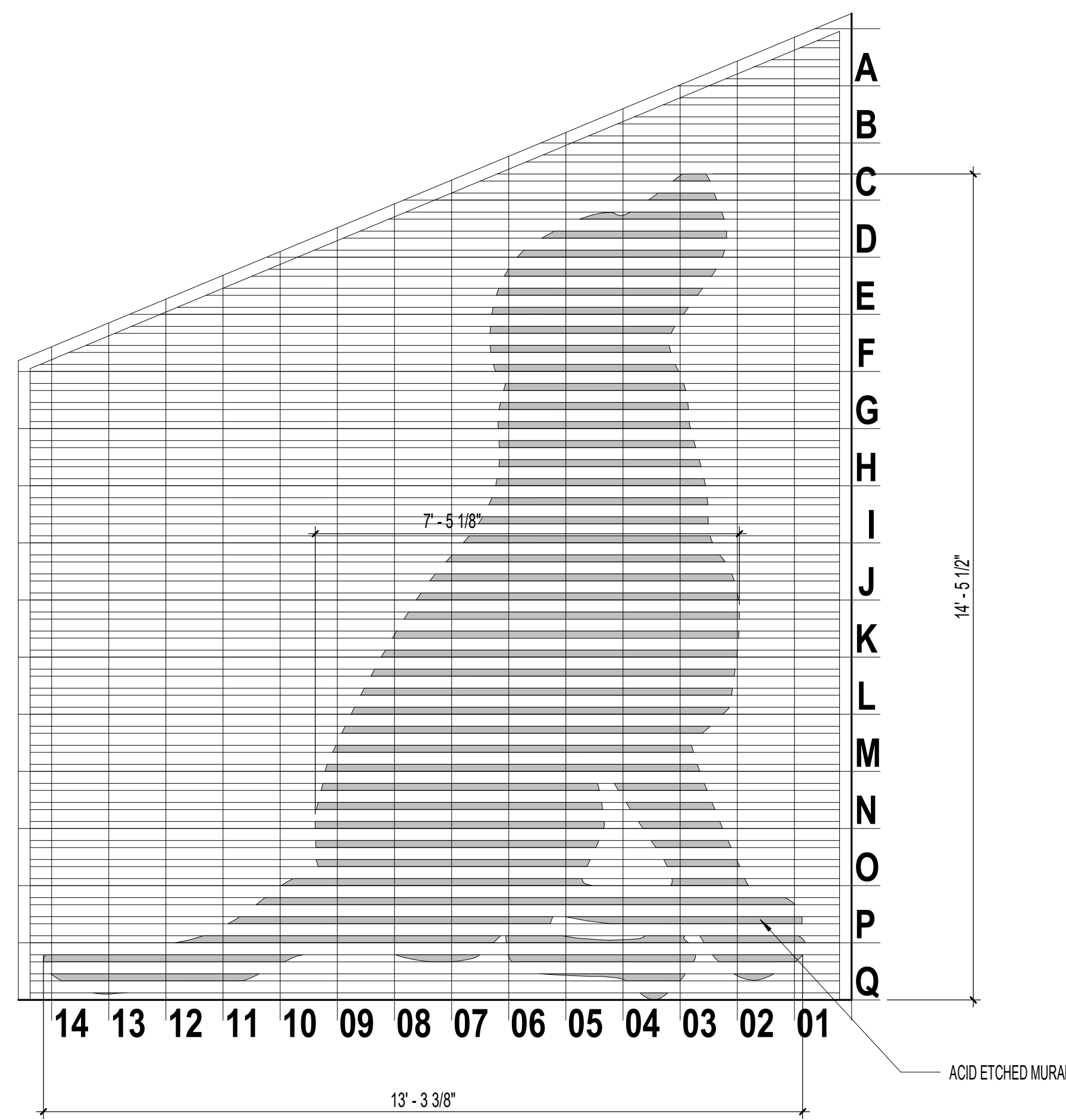
6 VINYL DOG GRAPHIC DETAIL
1/2" = 1'-0"



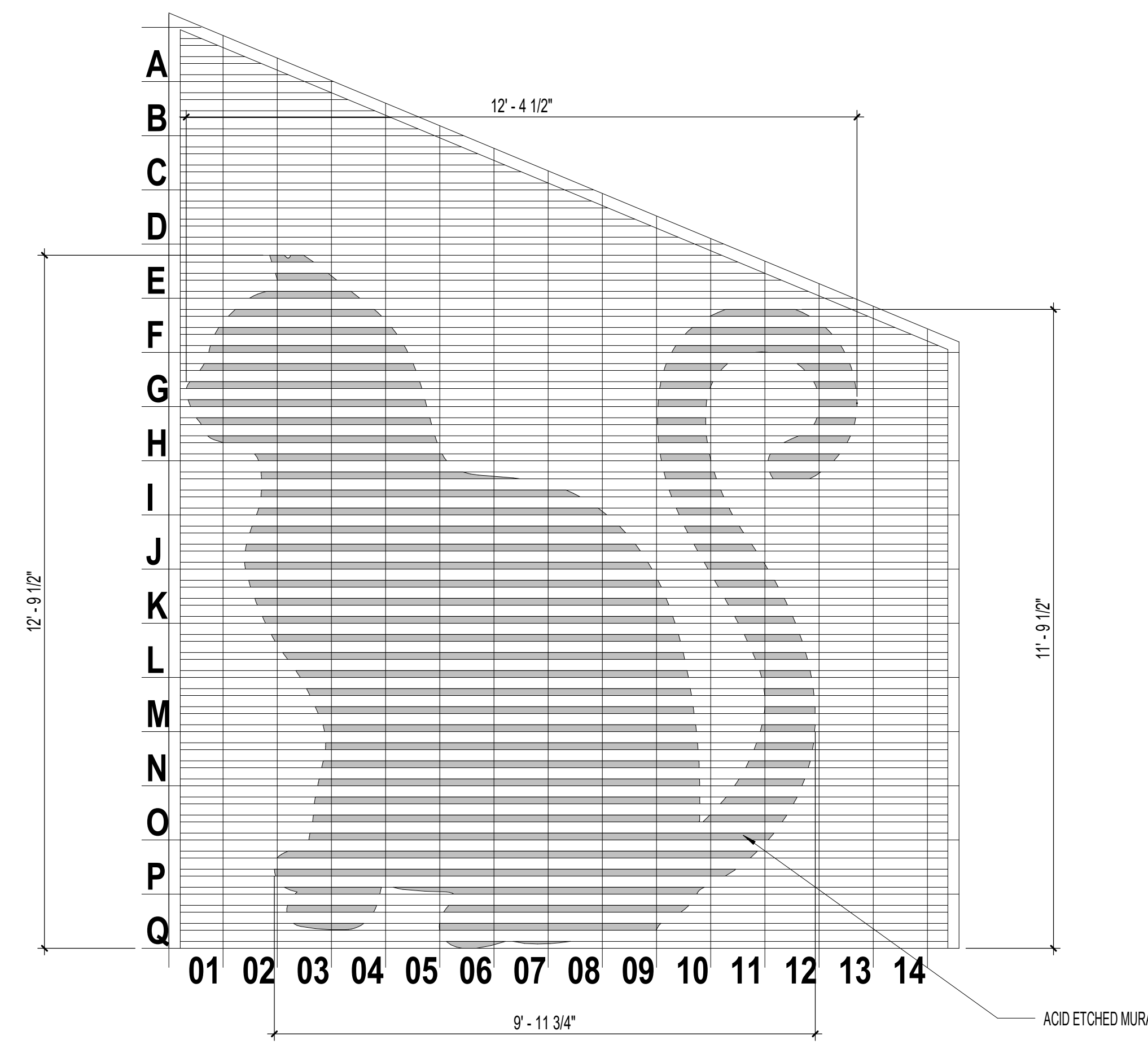
5 VINYL CAT GRAPHIC DETAIL
1/2" = 1'-0"



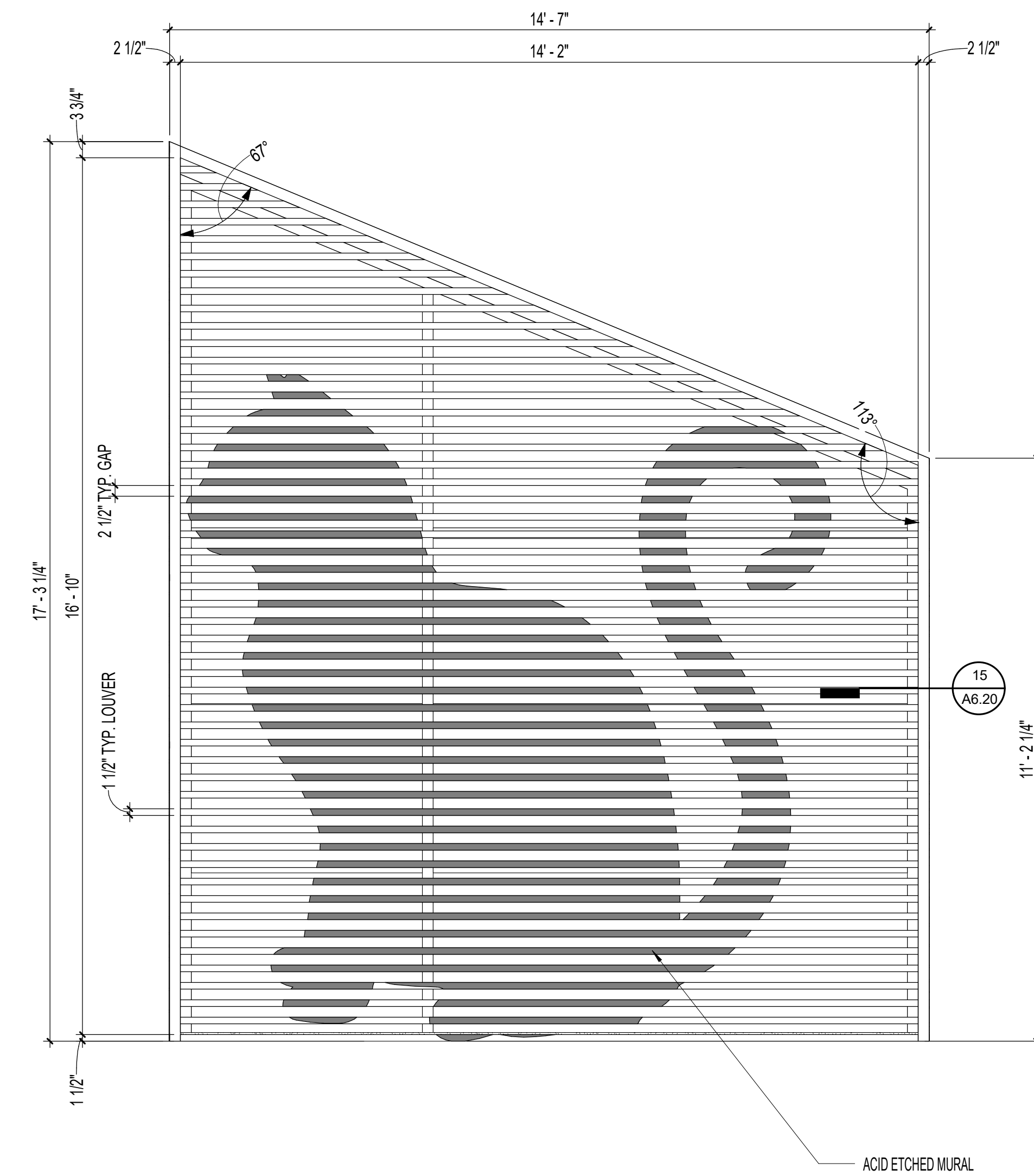
4 VINYL DOG GRAPHIC DETAIL
1/2" = 1'-0"



3 DOG SILHOUETTE DETAIL
1/2" = 1'-0"



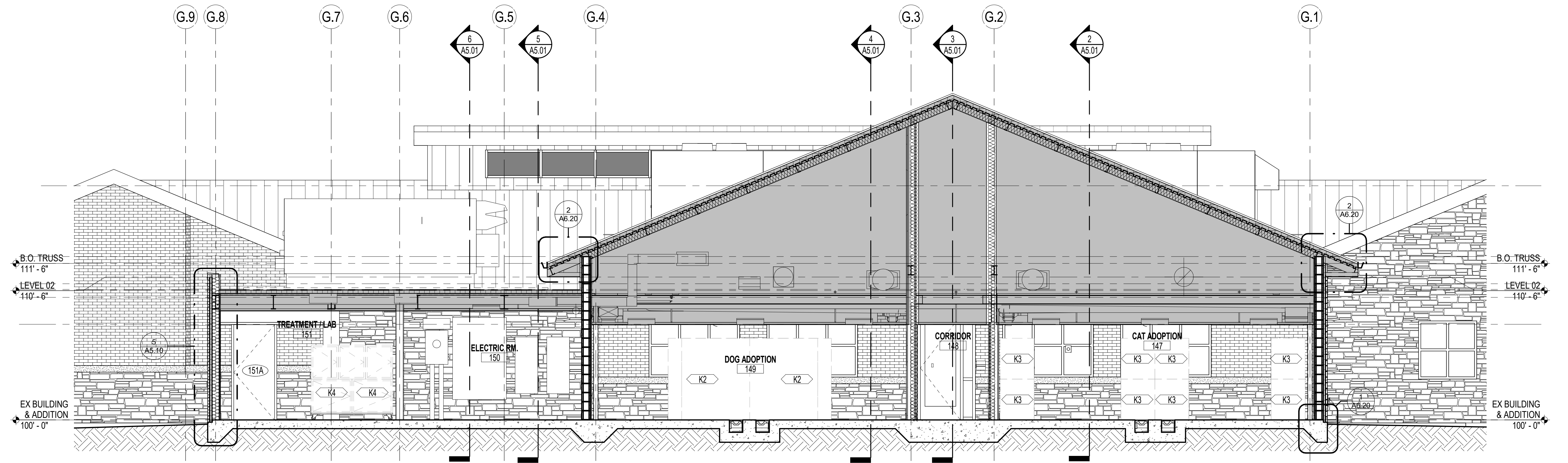
2 CAT SILHOUETTE DETAIL
1/2" = 1'-0"



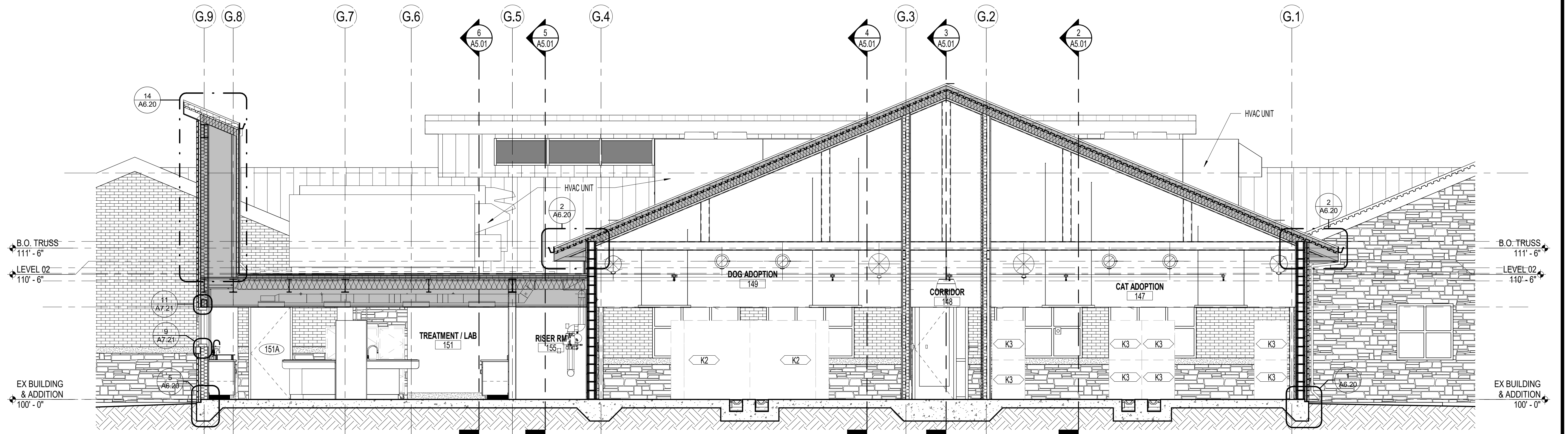
1 SF-LOUVER SCREEN DETAIL
1/2" = 1'-0"

Revisions:

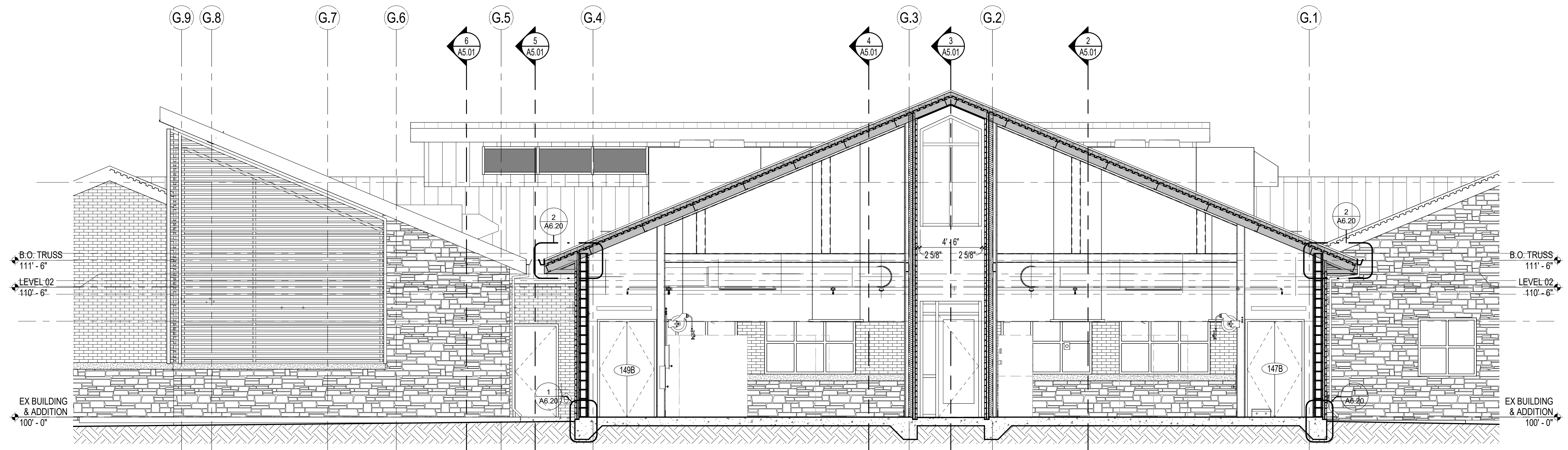
REV.	DATE	TITLE



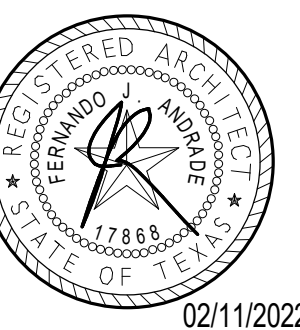
3 BUILDING SECTION 3
1/4" = 1'-0"



2 BUILDING SECTION 2
1/4" = 1'-0"



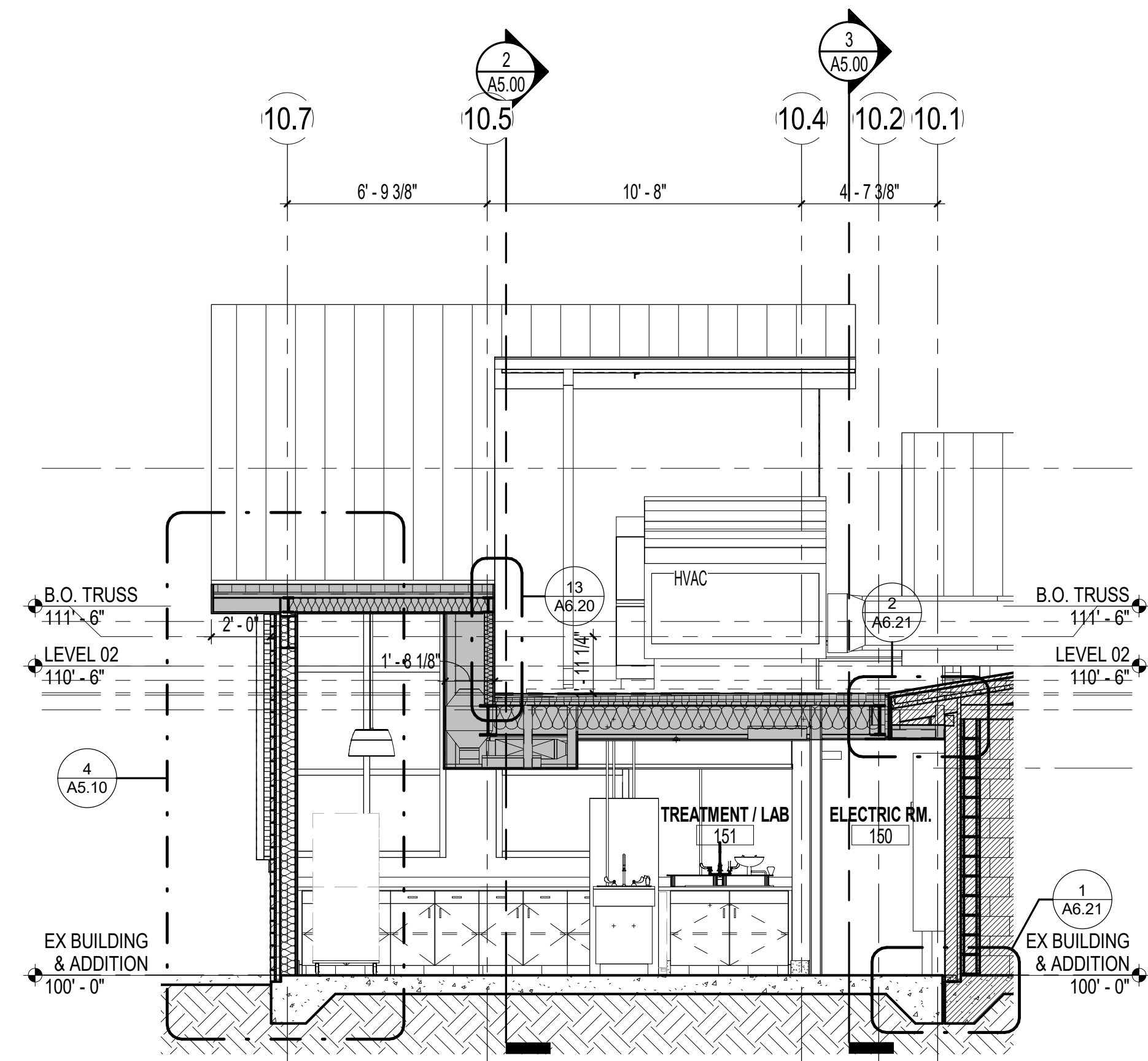
1 BUILDING SECTION 4
1/4" = 1'-0"



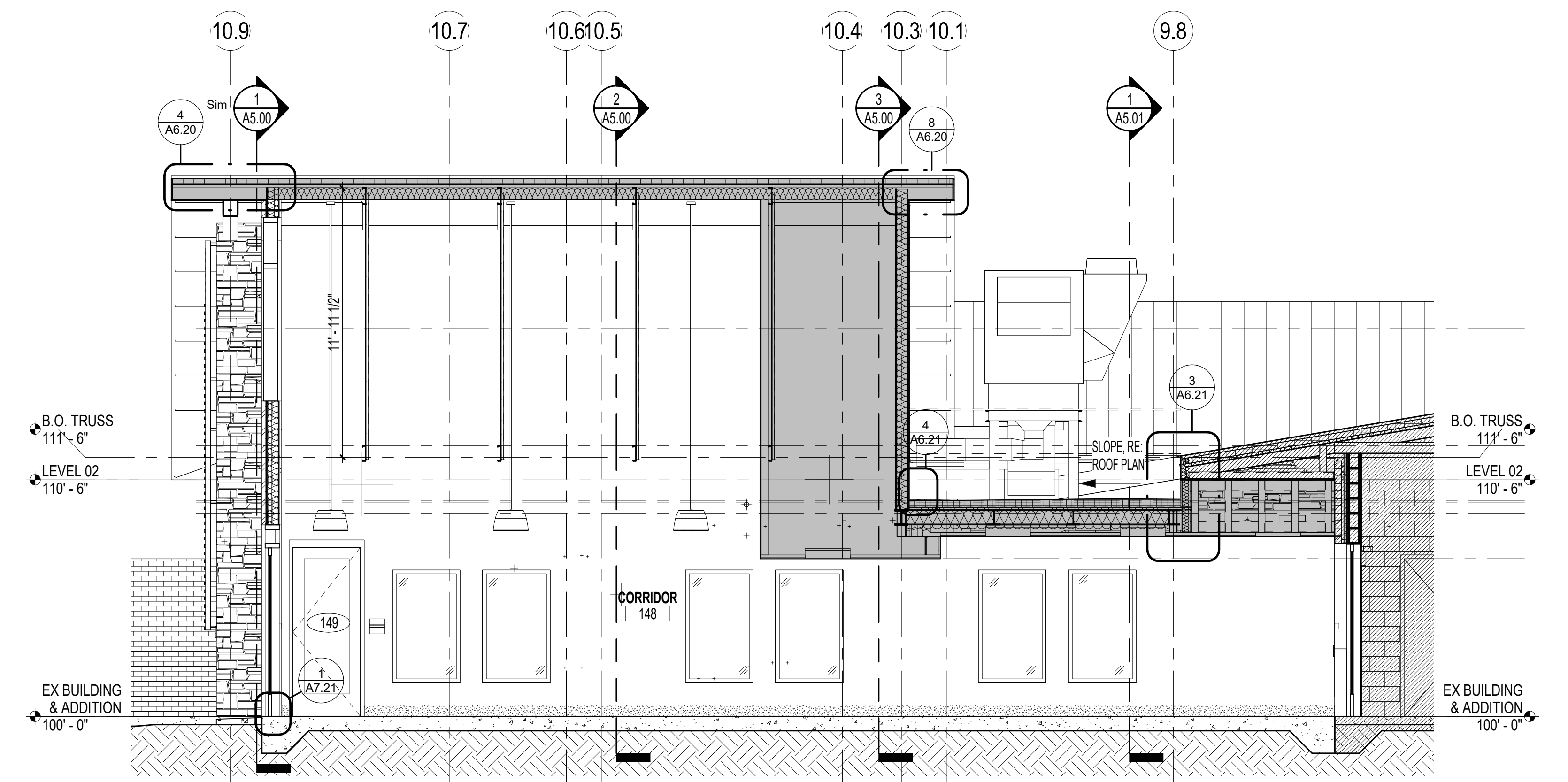
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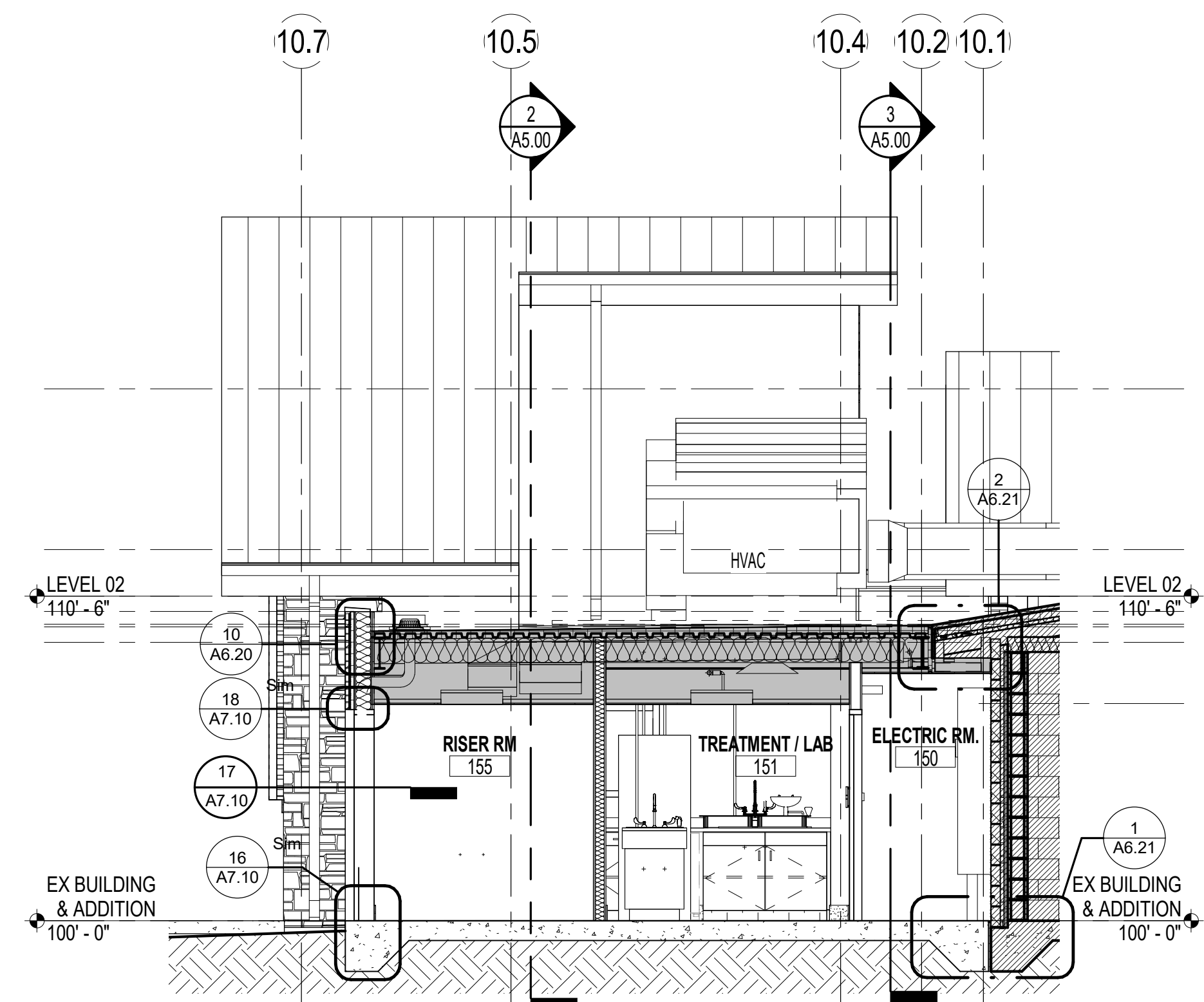
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RG
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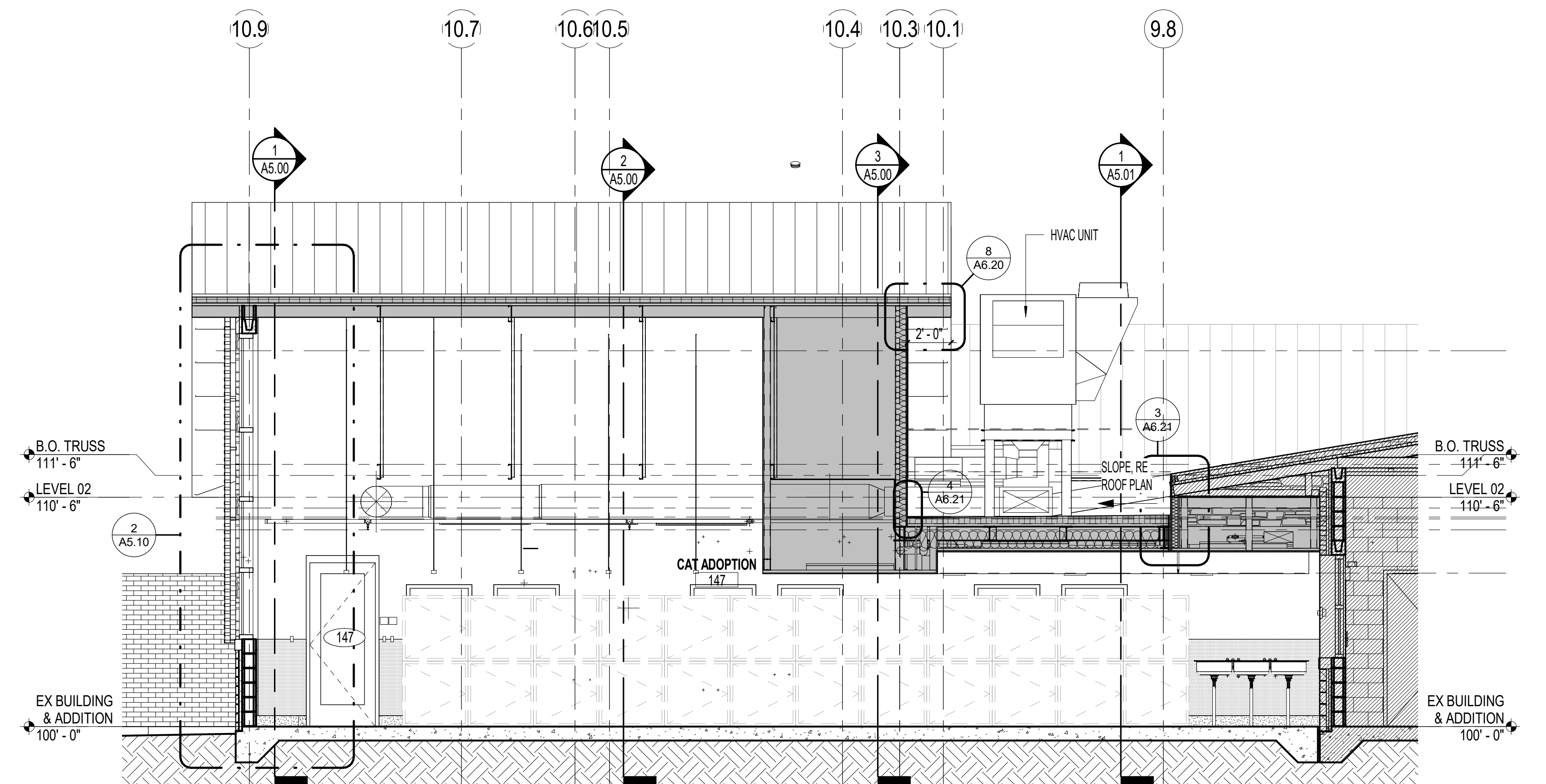
6 BUILDING SECTION
1/4" = 1'-0"



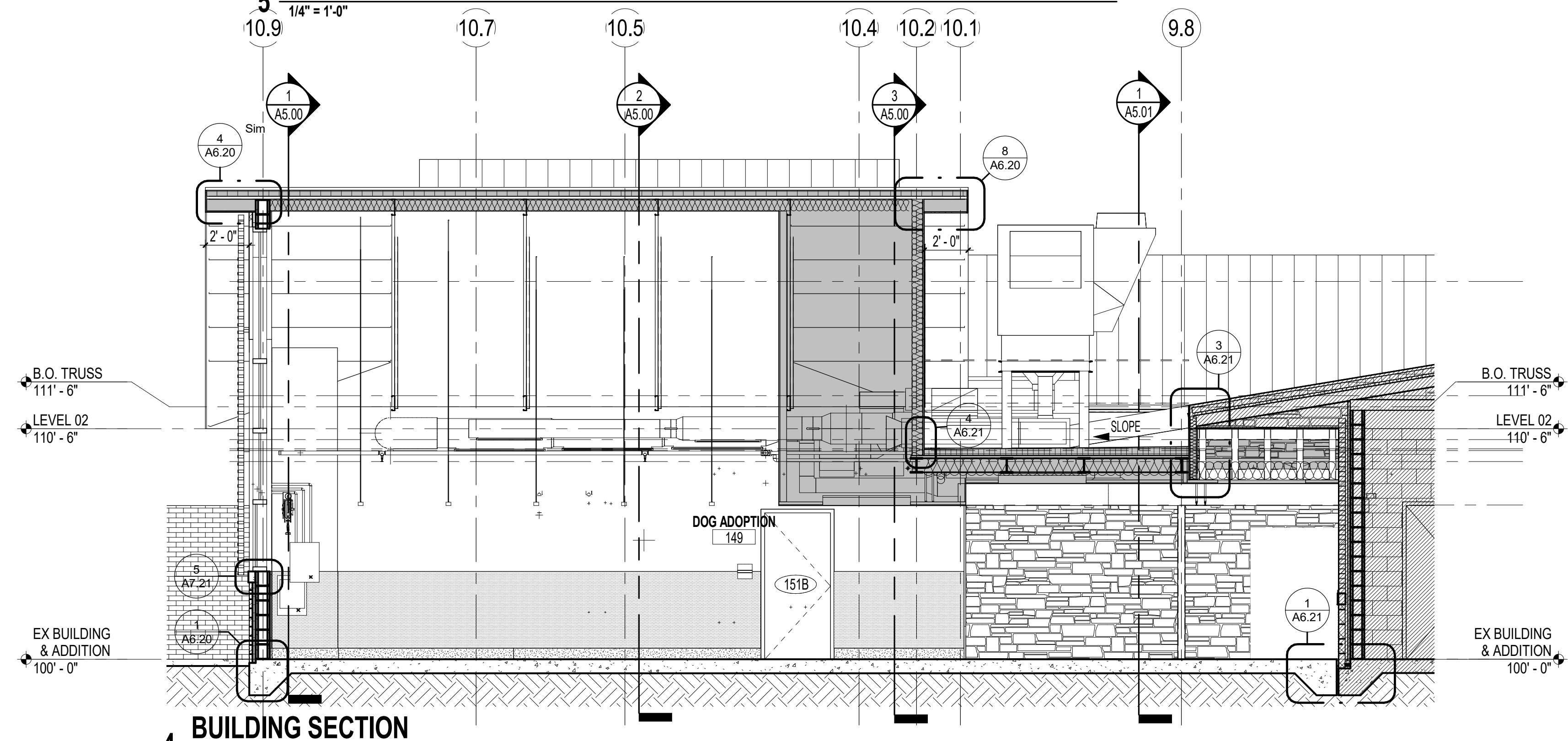
3 BUILDING SECTION
1/4" = 1'-0"



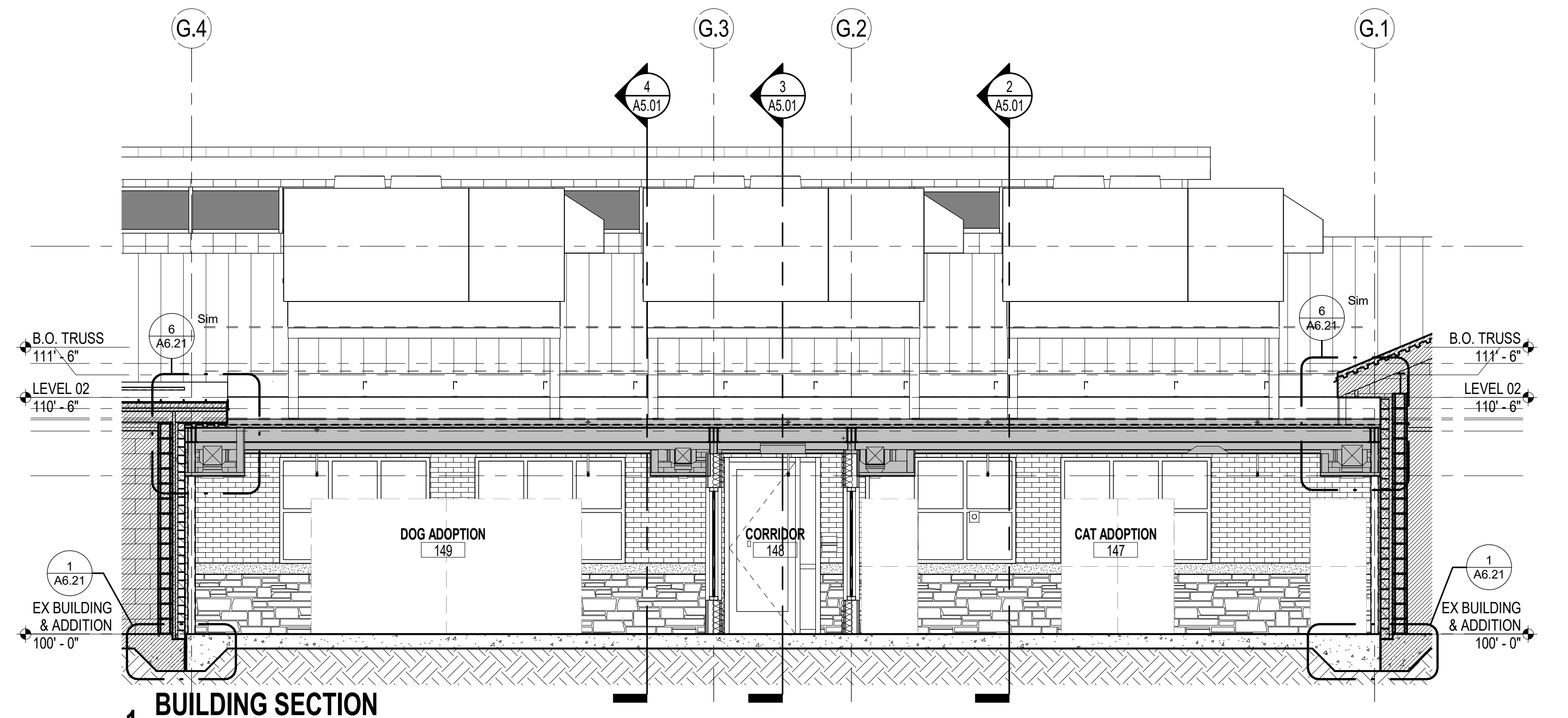
5 BUILDING SECTION
1/4" = 1'-0"



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



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



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



Revisions:

REV.	DATE	TITLE

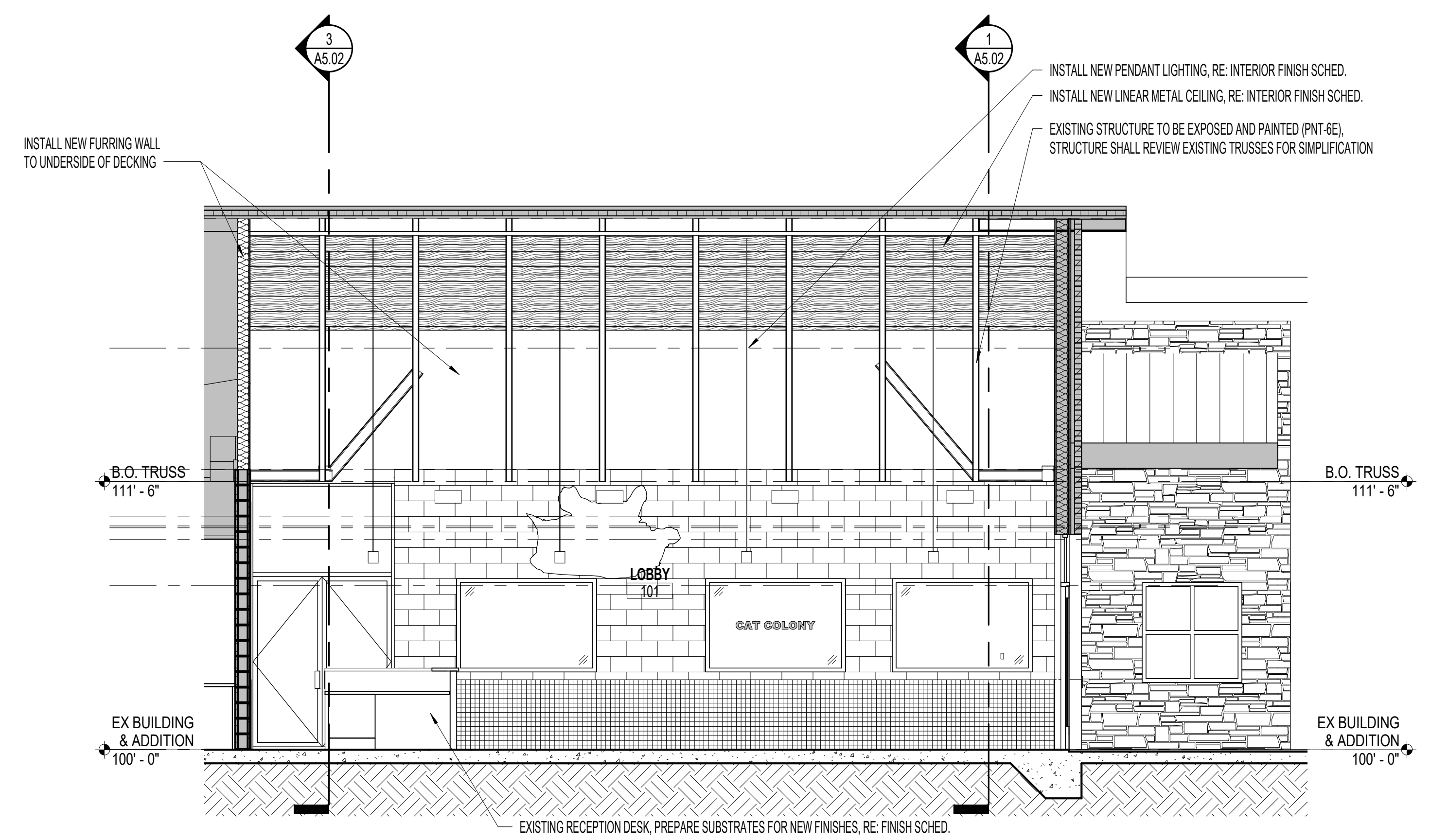
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Project No.
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Author
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Sheet Title:
BUILDING SECTIONS
Drawing No.



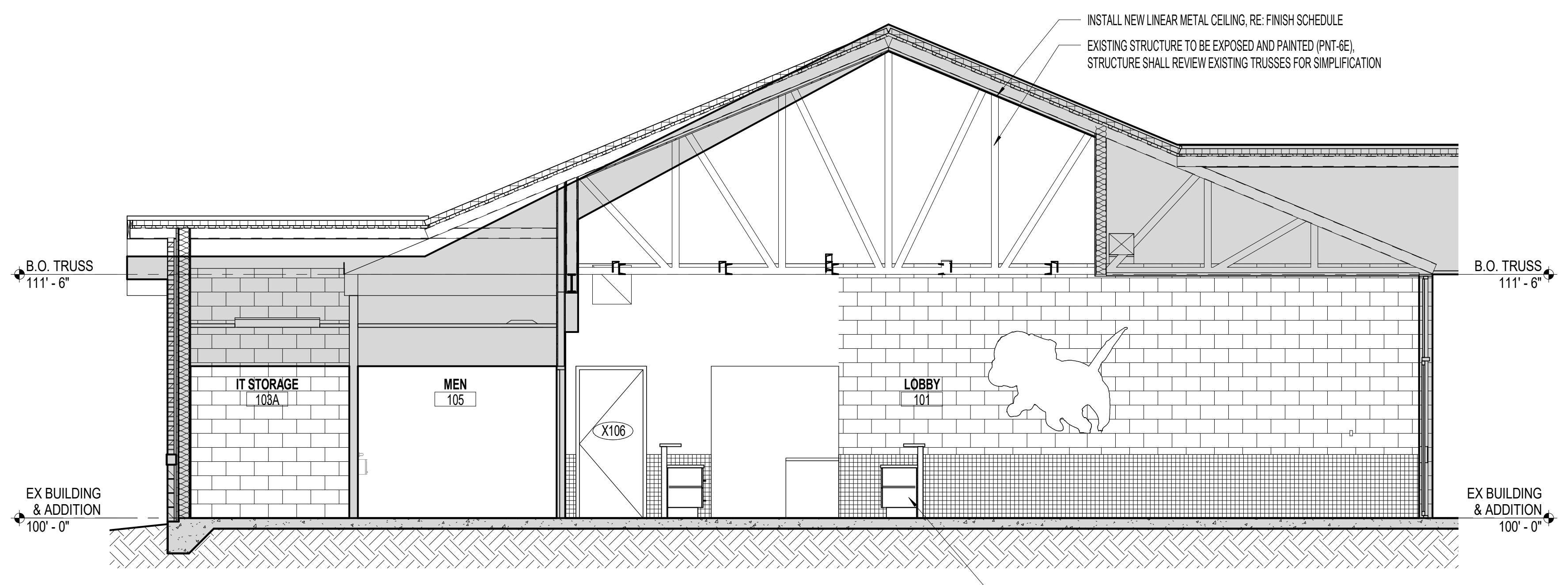
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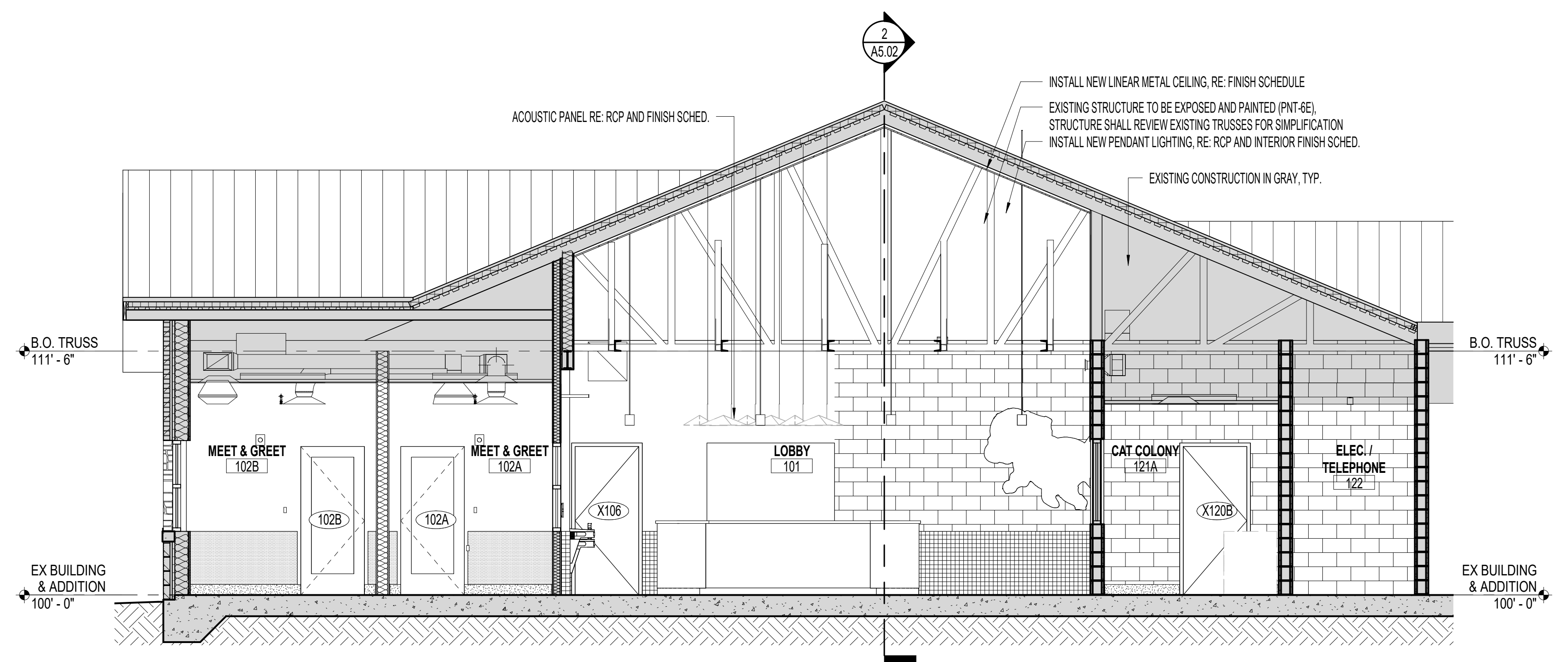
Date:
 CONSTRUCTION DOCS
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 Checked By:
 Checker
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 BUILDING SECTIONS
 Drawing No.



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



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



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

KEYNOTE LEGEND	
NUMBER	DESCRIPTION
1	EX BUILDING & ADDITION
2	CMU BOND BM
3	6" CFMF STAGGERED STUD
4	STANDING SEAM MTL ROOF
5	10'-6" B.O. SOFFIT
6	SYNTHETIC STONE VENEER ON SELF-FURRING MTL LATH
7	1/2" CONT. INSULATION
8	1/2" EXTERIOR SHEATHING
9	1/2" CONT. INSULATION
10	1 1/2" METAL DECKING
11	1 1/2" CONT. INSULATION
12	6" CFMF STAGGERED STUD
13	HOLLOW METAL DOOR, FRAME, AND TRANSOM WITH INTERIOR GLAZING AS SCHEDULED
14	TRUSSES REF. STRUCTURAL
15	TRUSSES RE. STRUCTURAL

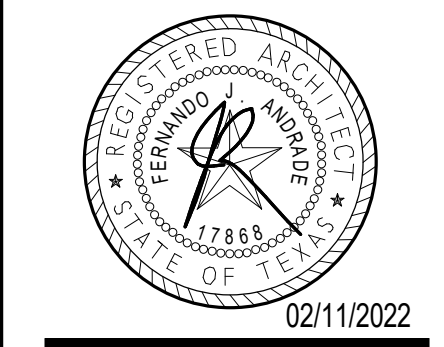
CITY OF MESQUITE ANIMAL SHELTER & ADOPTION CENTER
 1650 GROSS RD
 MESQUITE, TX, 75149



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 ARCHITECTS

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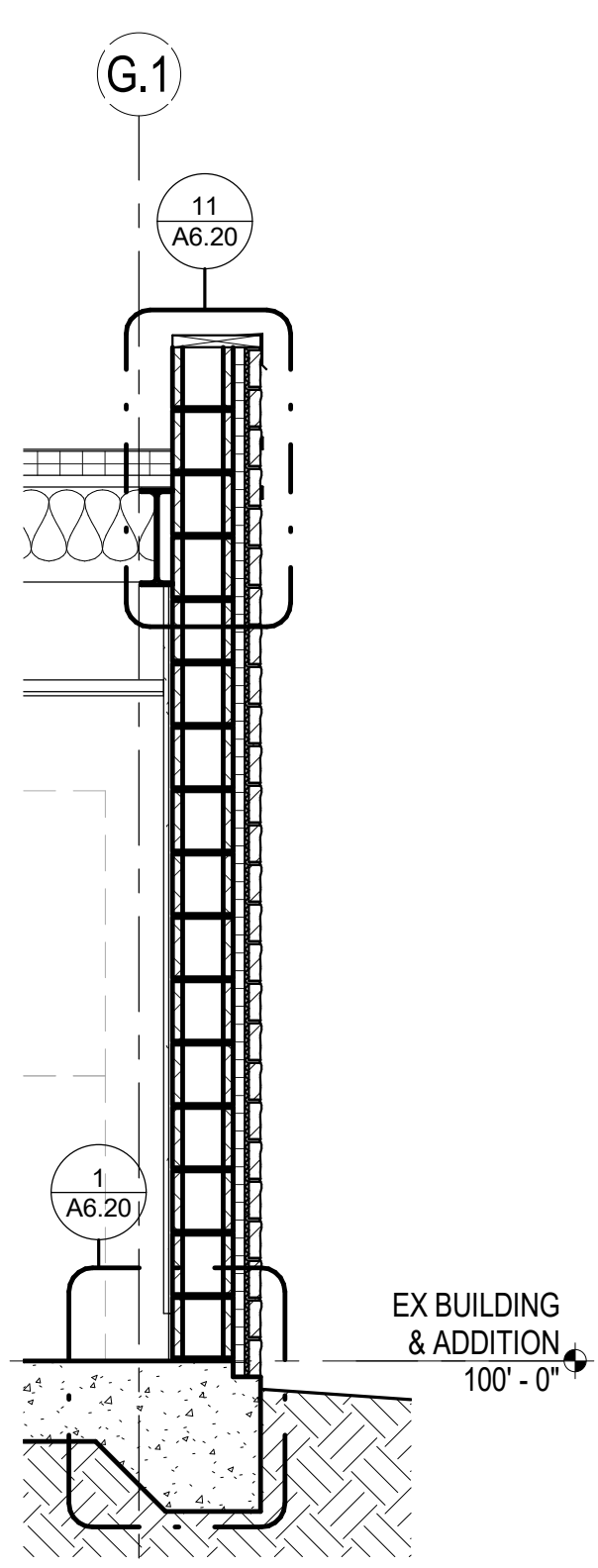


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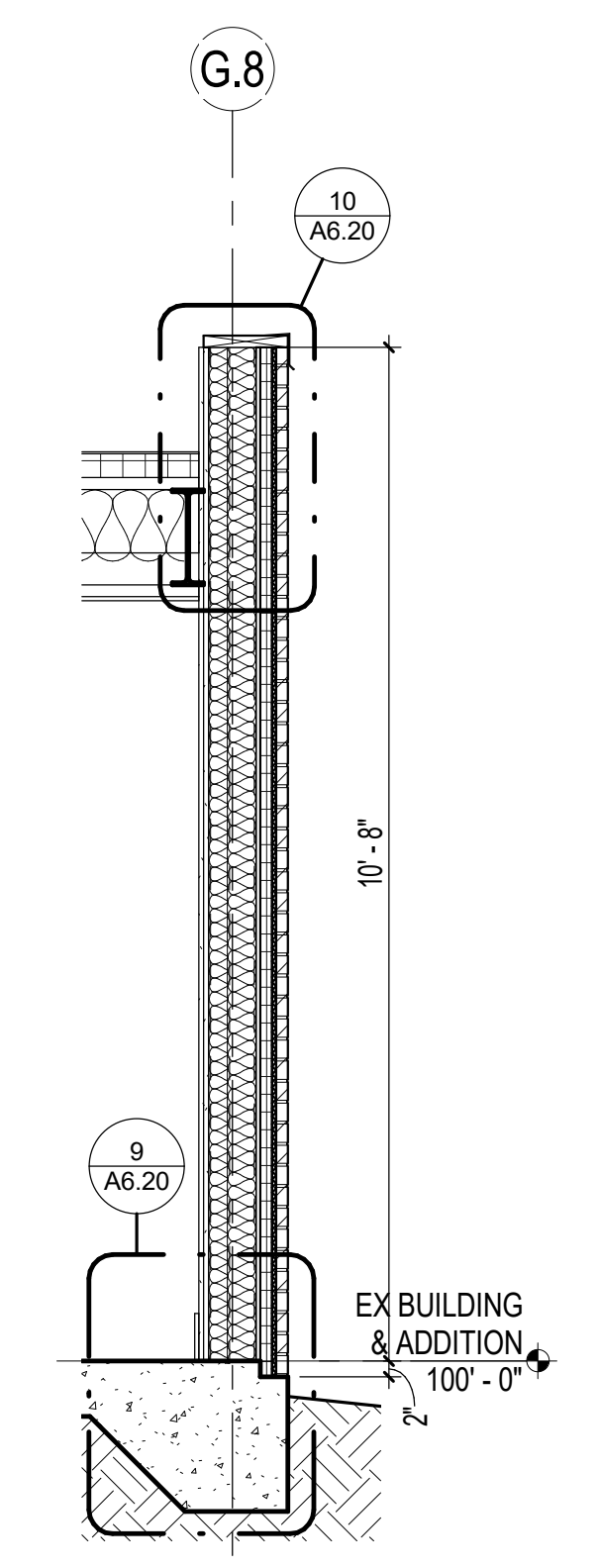
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 Project No: 2942
 Drawn By: OV
 Checked By: RG
 Sheet Title: WALL SECTIONS
 Drawing No.

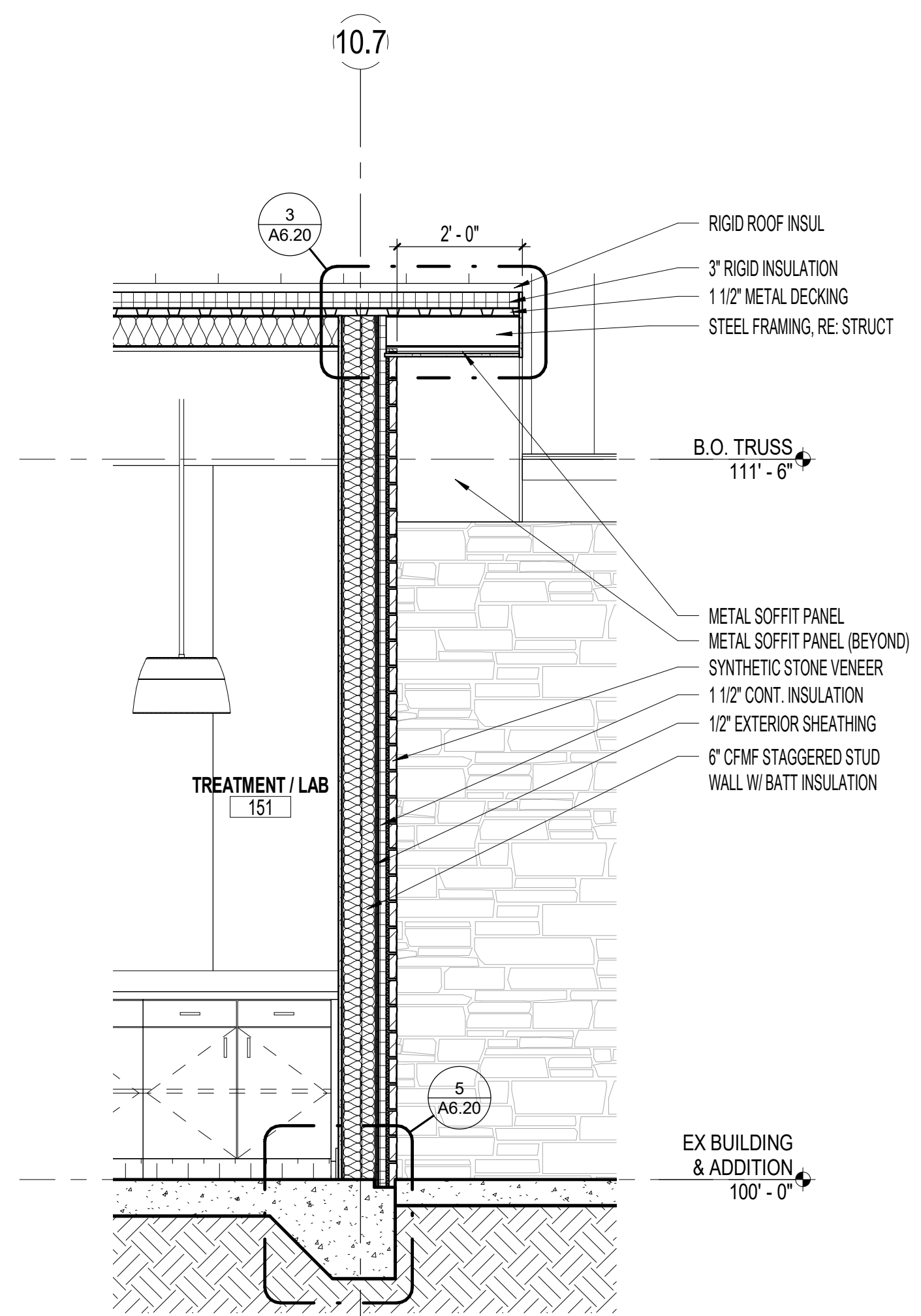
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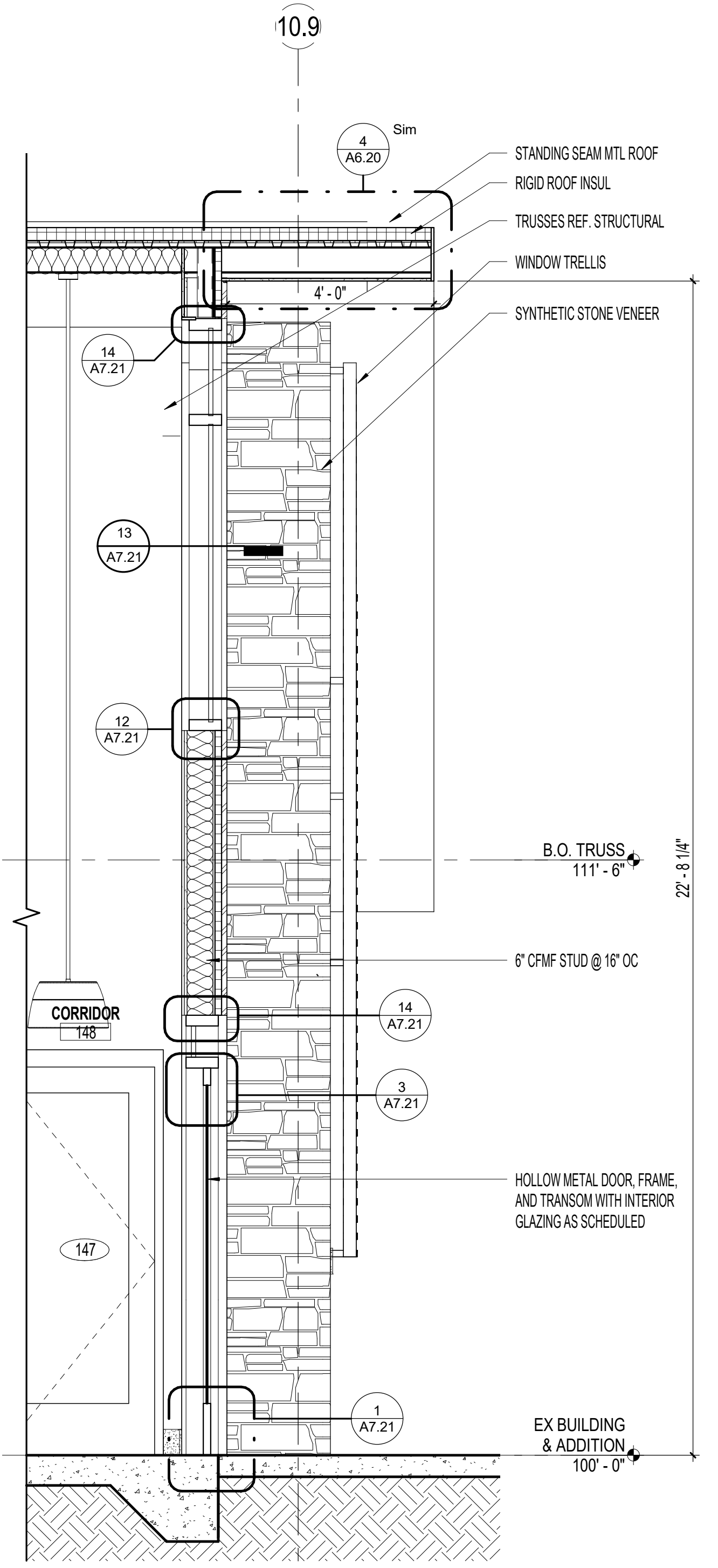
6 WALL SECTION
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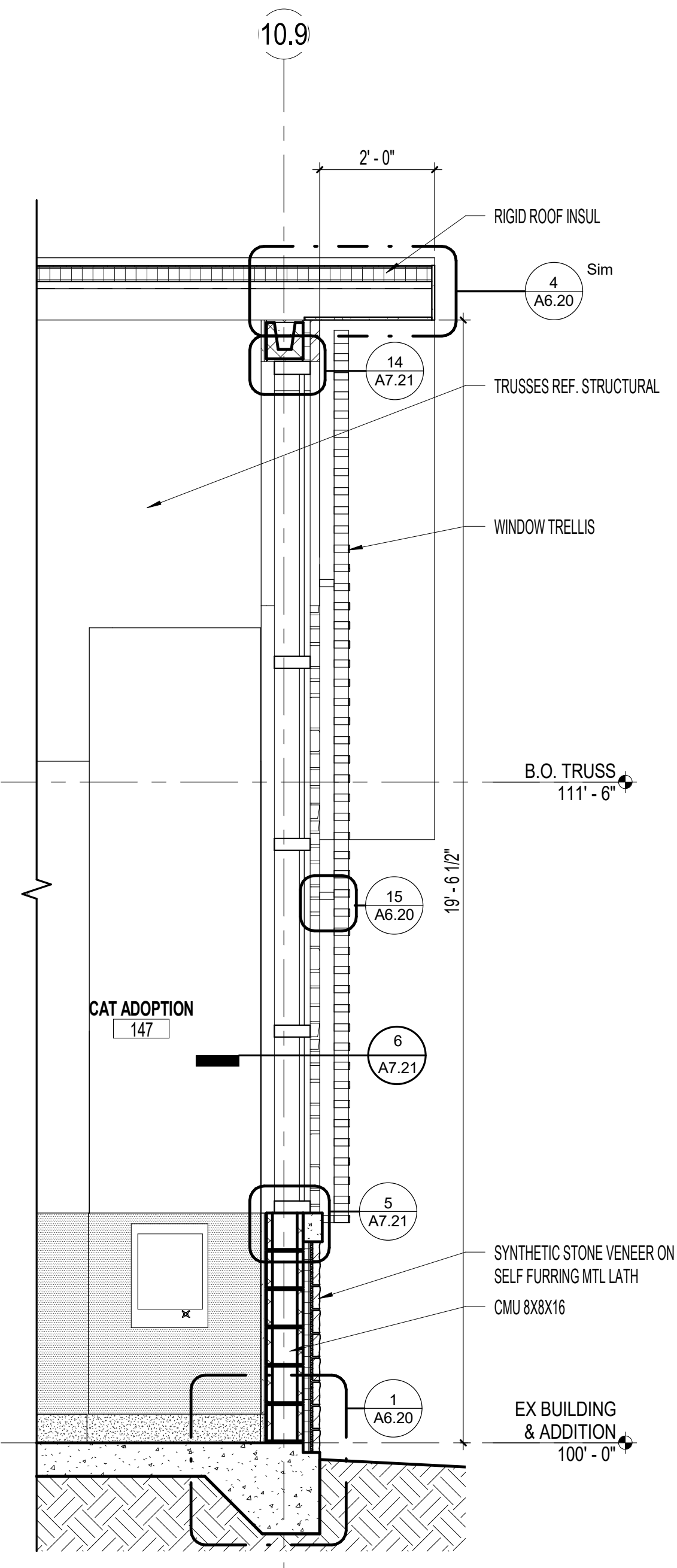
5 WALL SECTION
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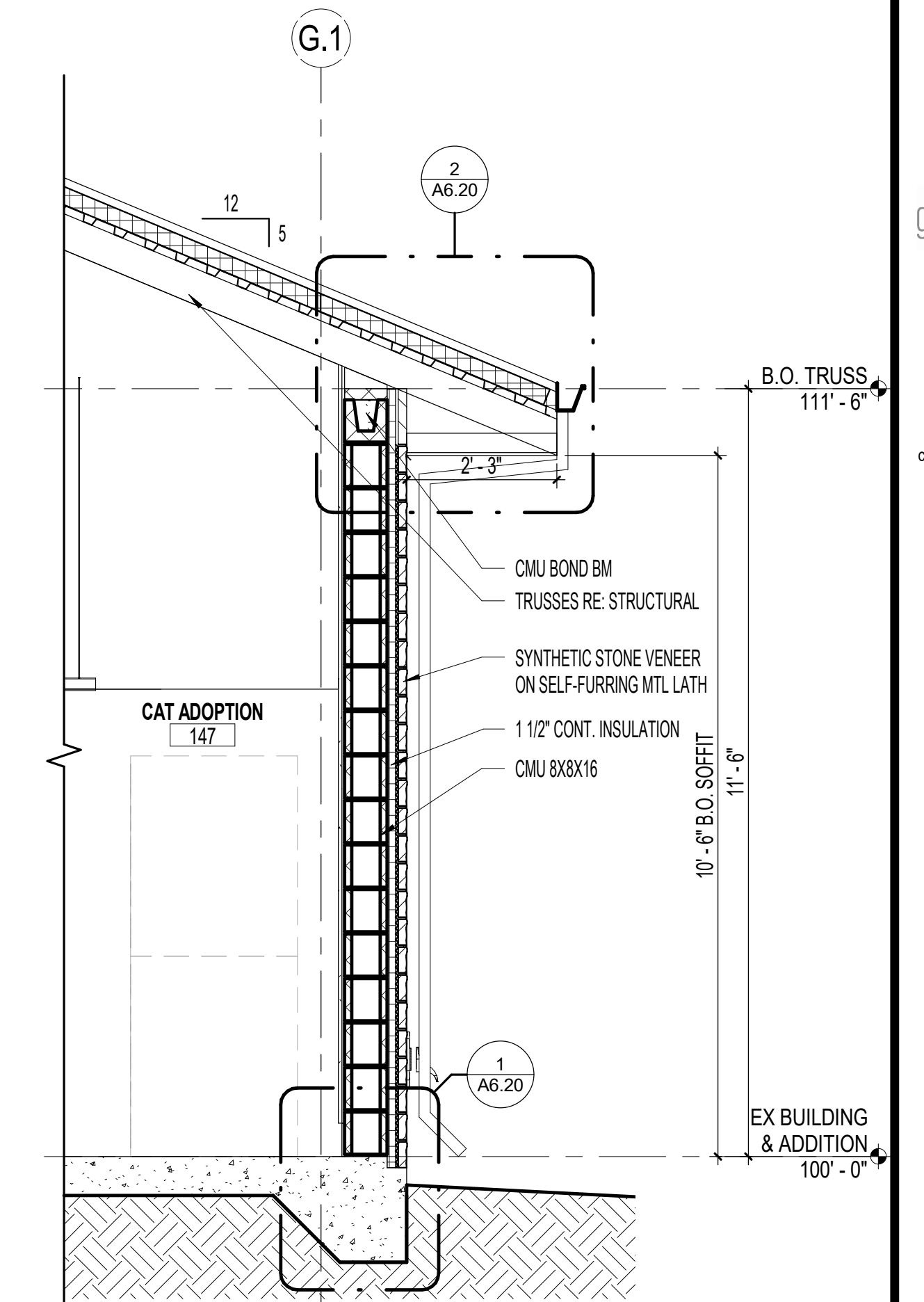
4 WALL SECTION
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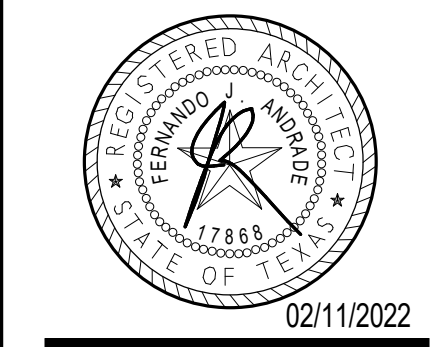
3 WALL SECTION
 1/2" = 1'-0"



2 WALL SECTION
 1/2" = 1'-0"



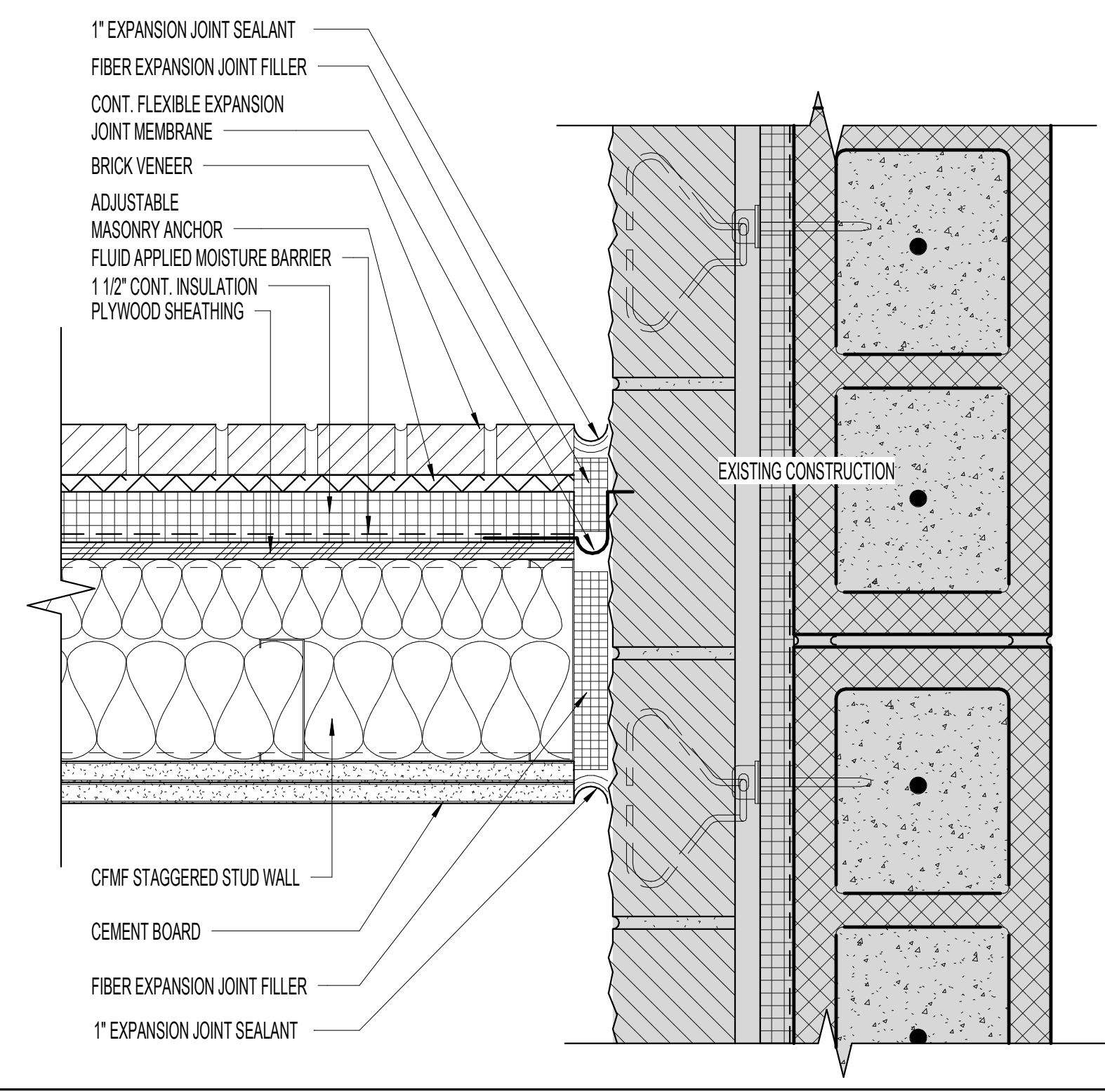
1 WALL SECTION
 1/2" = 1'-0"



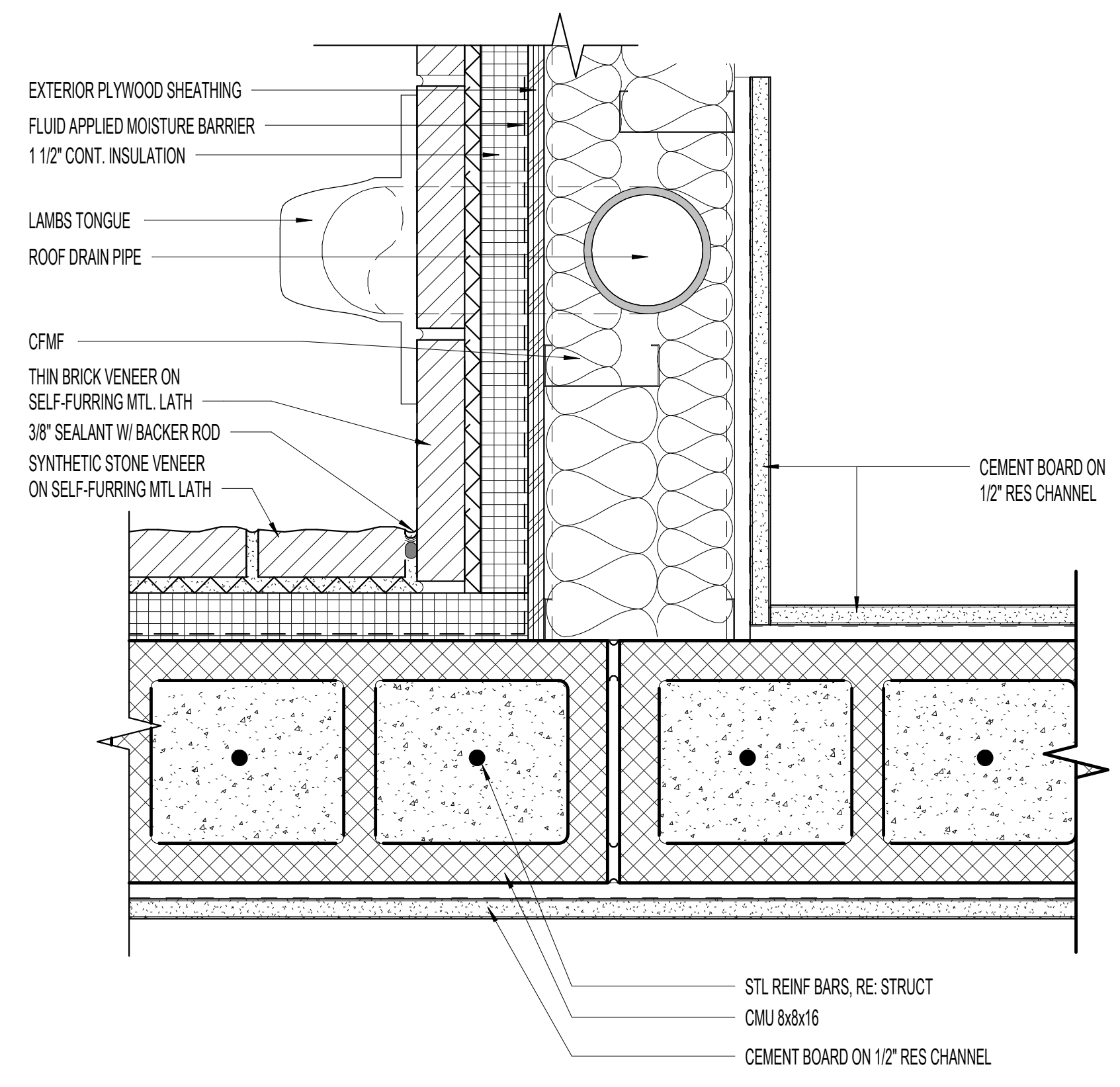
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REV.	DATE	TITLE

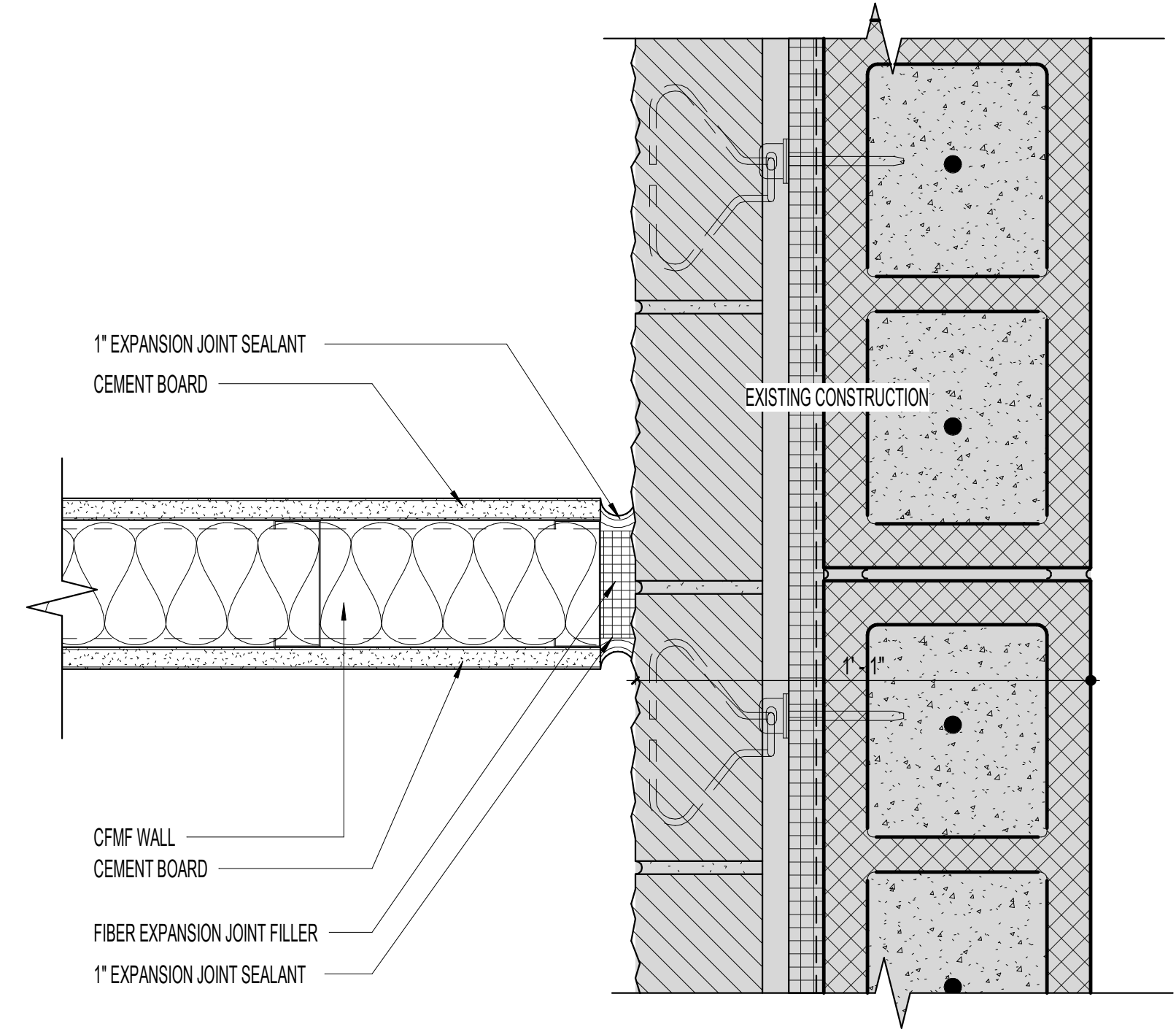
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 DW_OV
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 Sheet Title:
 PLAN DETAILS
 Drawing No.



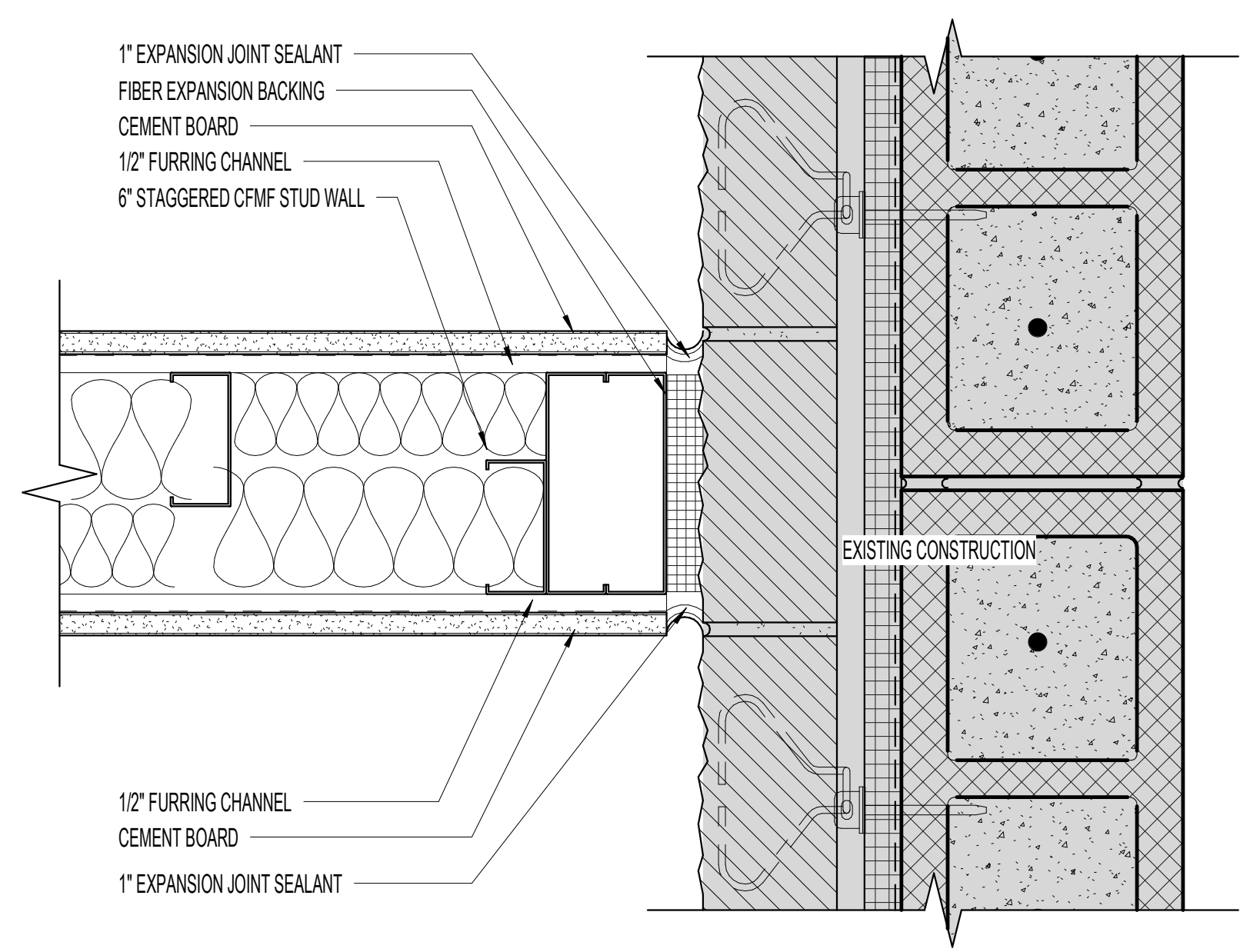
3 PLAN DETAIL
 3" = 1'-0"



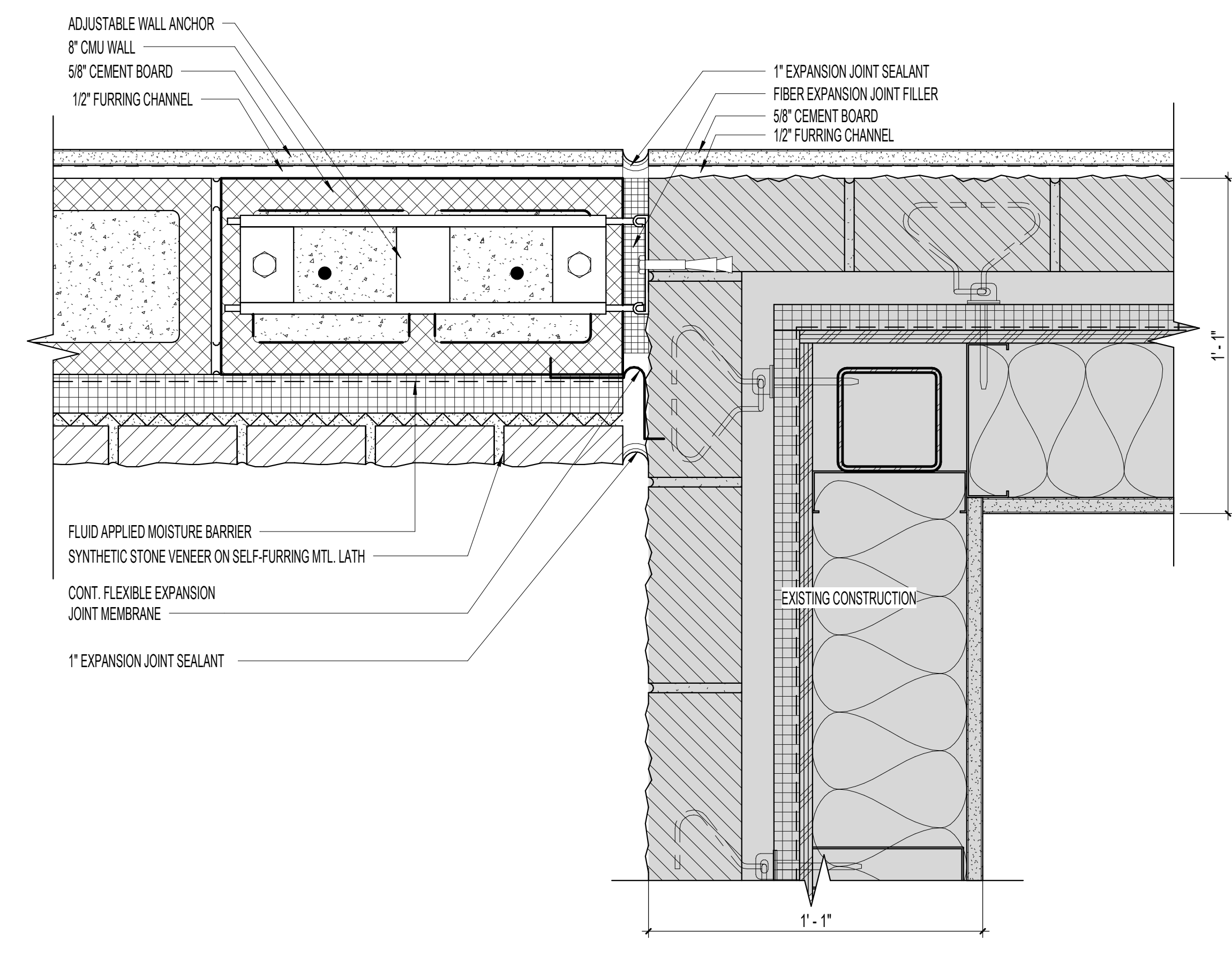
2 PLAN DETAIL
 3" = 1'-0"



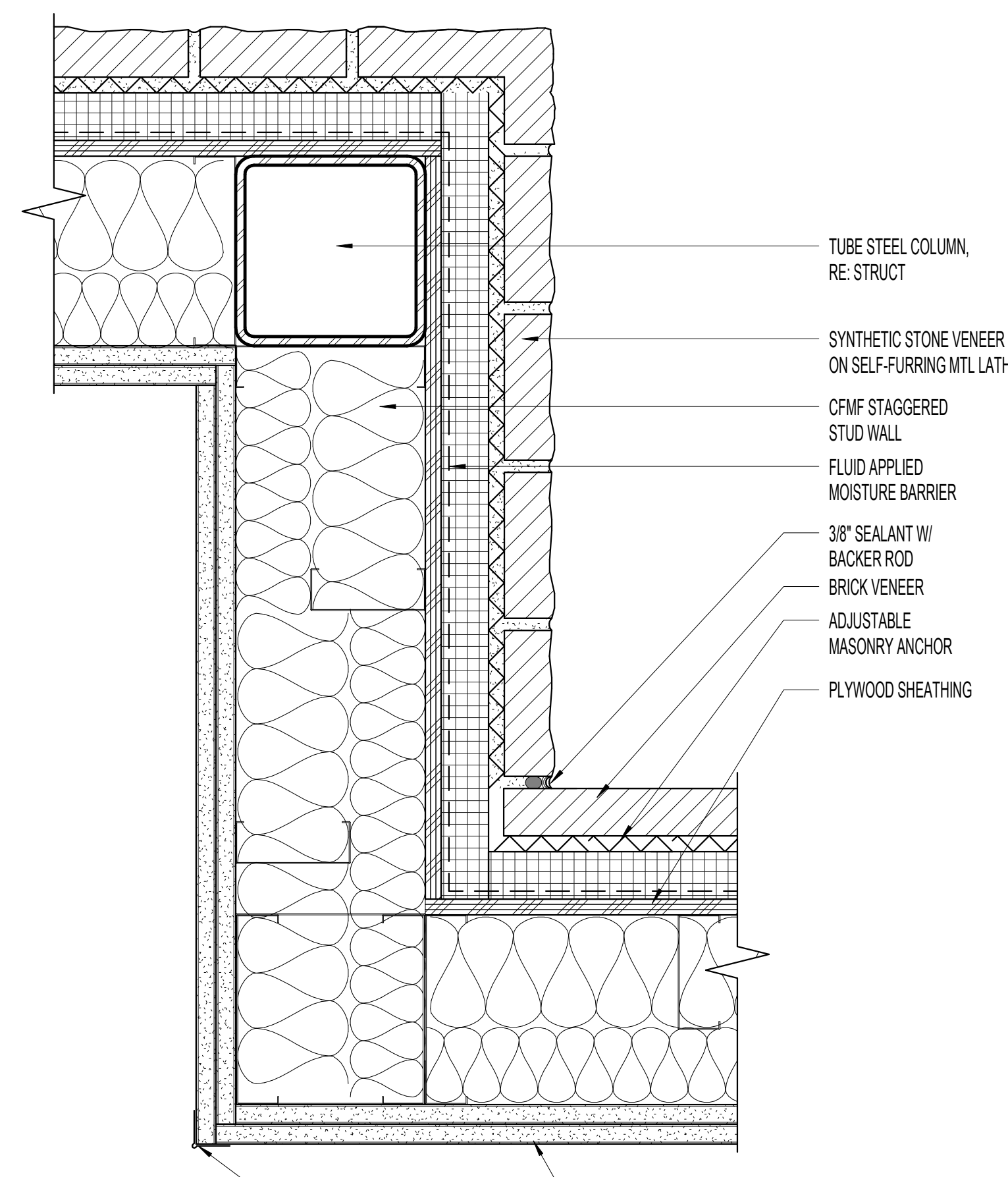
6 PLAN DETAIL
 3" = 1'-0"



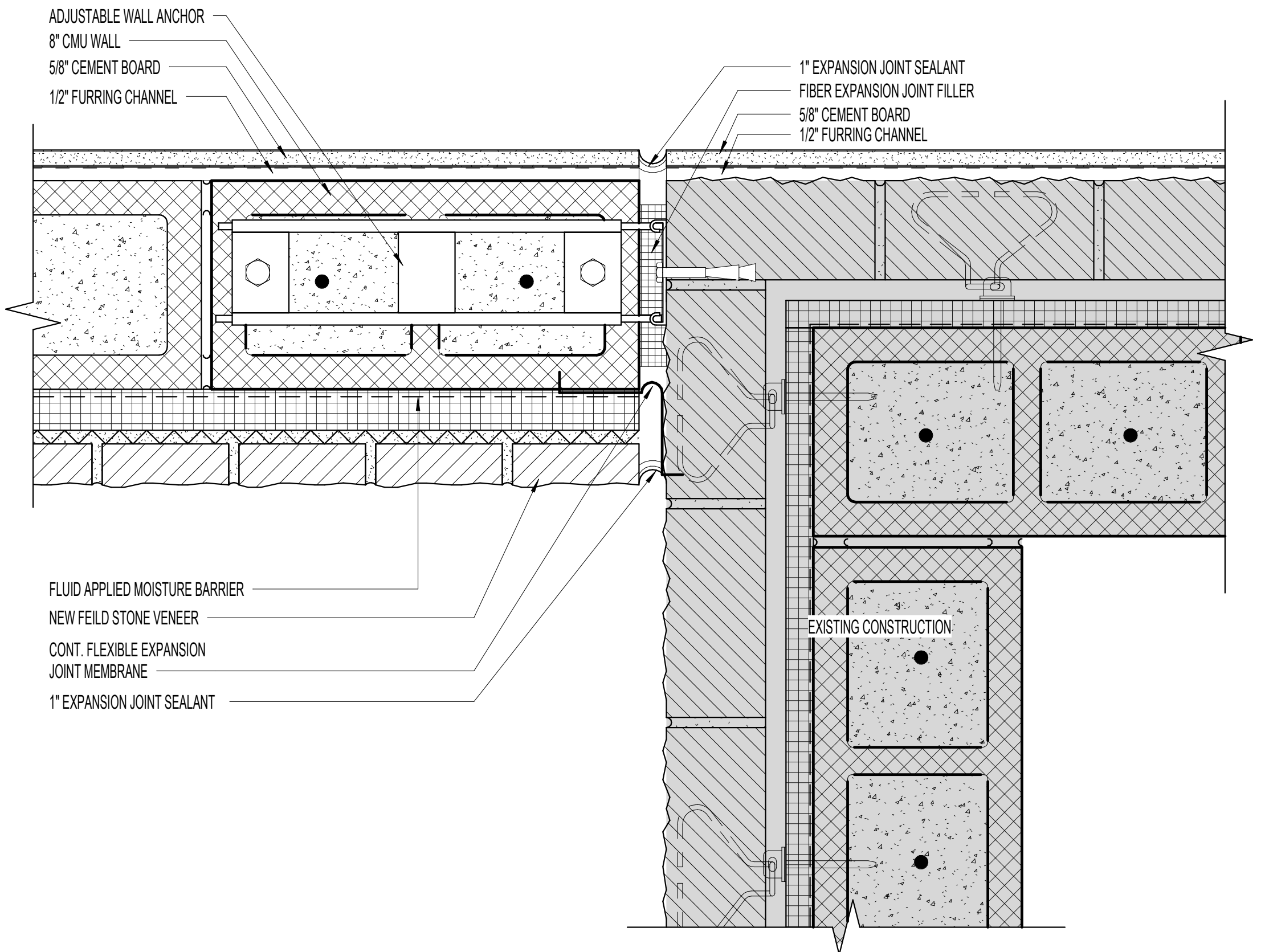
5 PLAN DETAIL
 3" = 1'-0"



1 PLAN DETAIL
 3" = 1'-0"



4 PLAN DETAIL
 3" = 1'-0"



7 PLAN DETAIL
 3" = 1'-0"

Revisions:

REV.	DATE	TITLE

Date:
 CONSTRUCTION DOCS
 02-11-2022

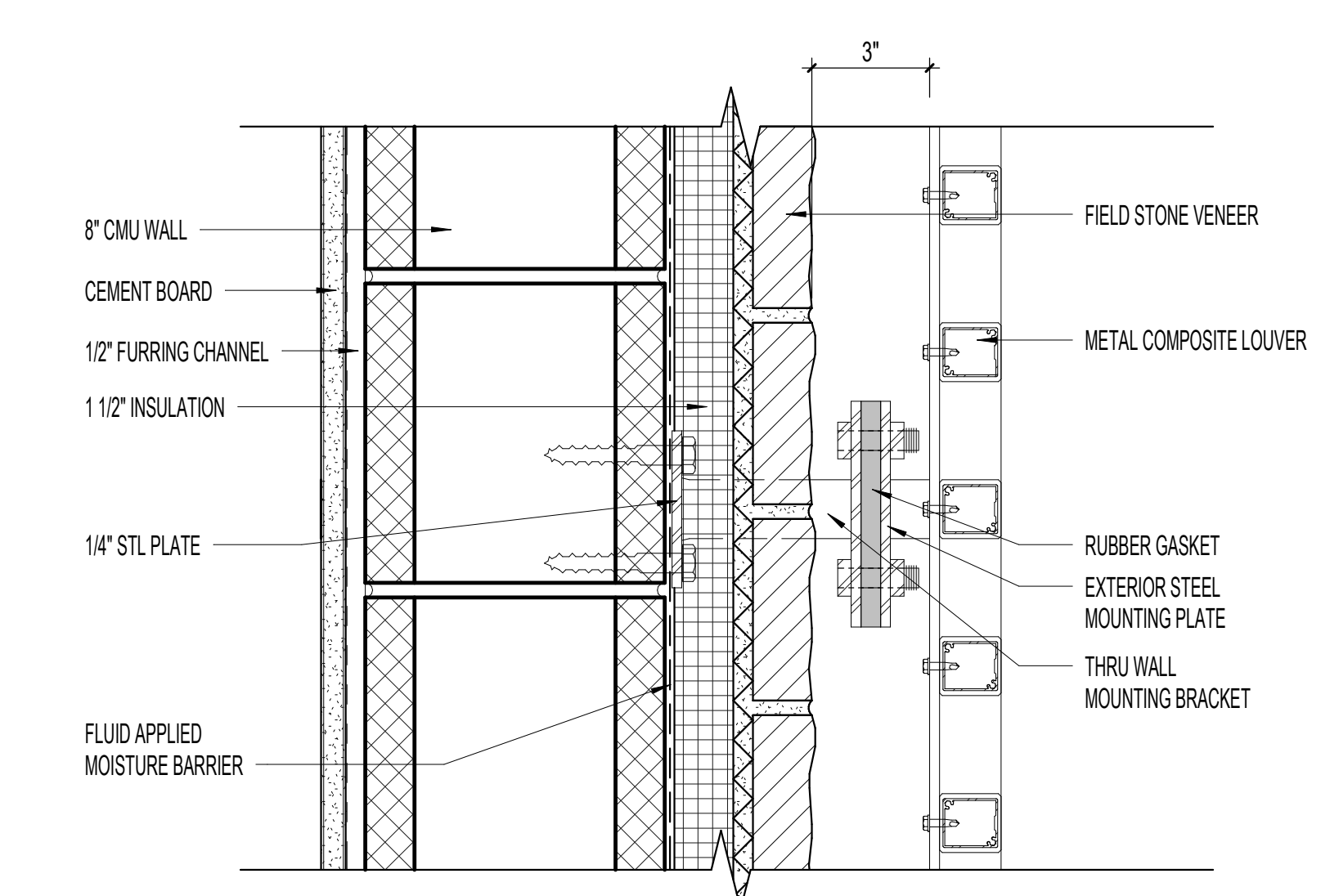
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Drawn By:
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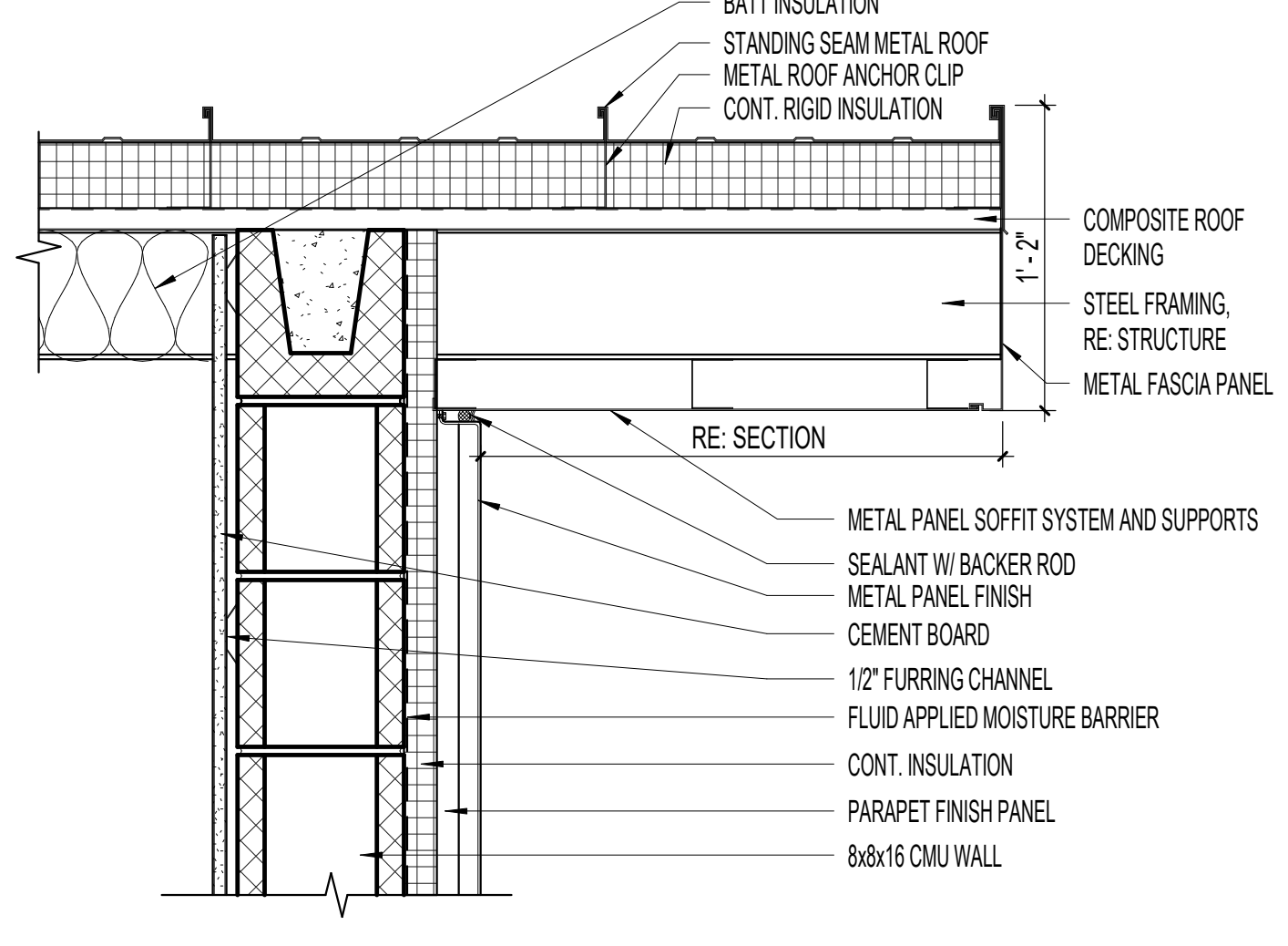
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 RG

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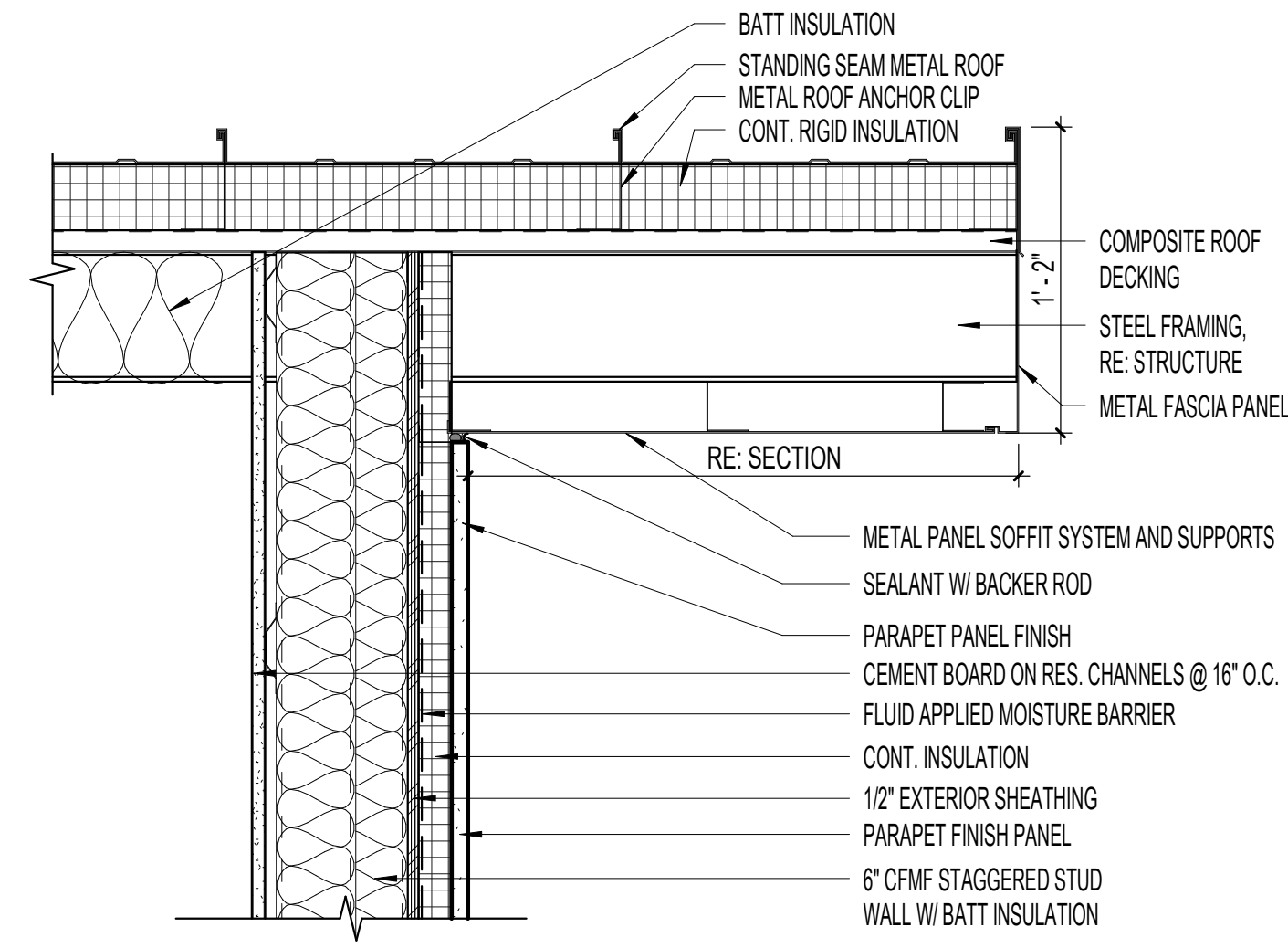
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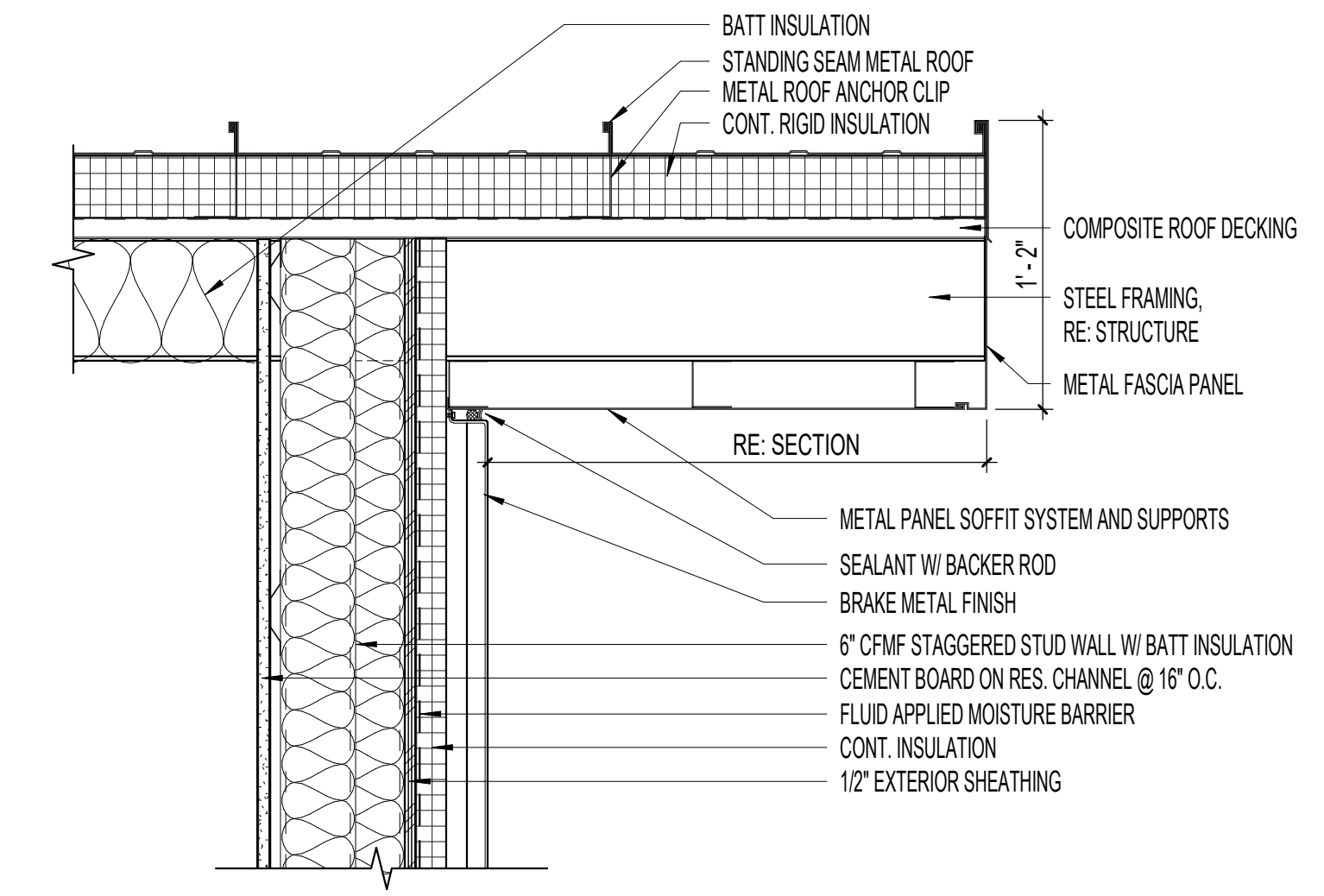
15 WINDOW SCREEN BRACKET DETAIL
 3" = 1'-0"



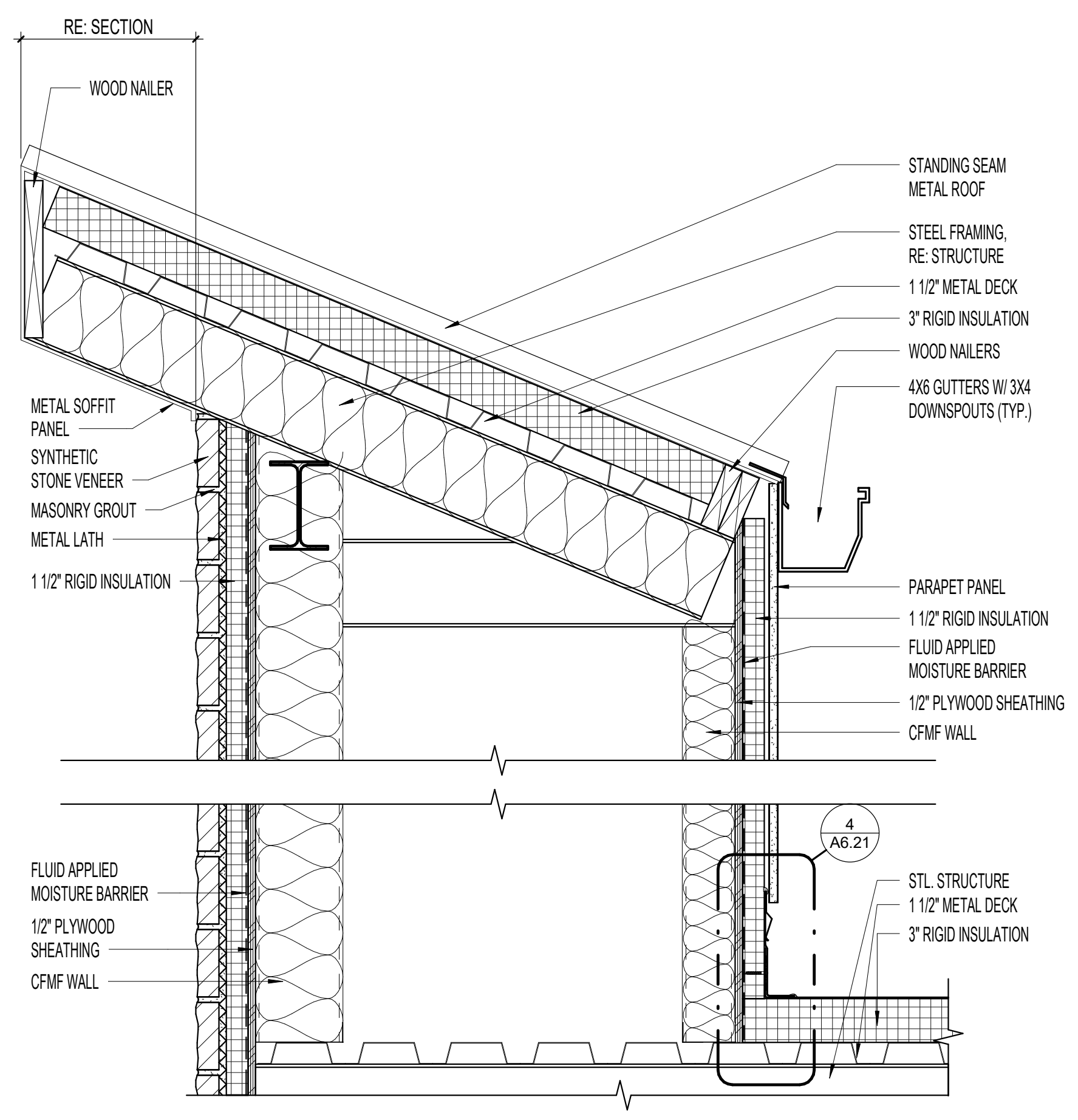
12 GABLE SOFFIT @ METAL PANEL/CMU
 1 1/2" = 1'-0"



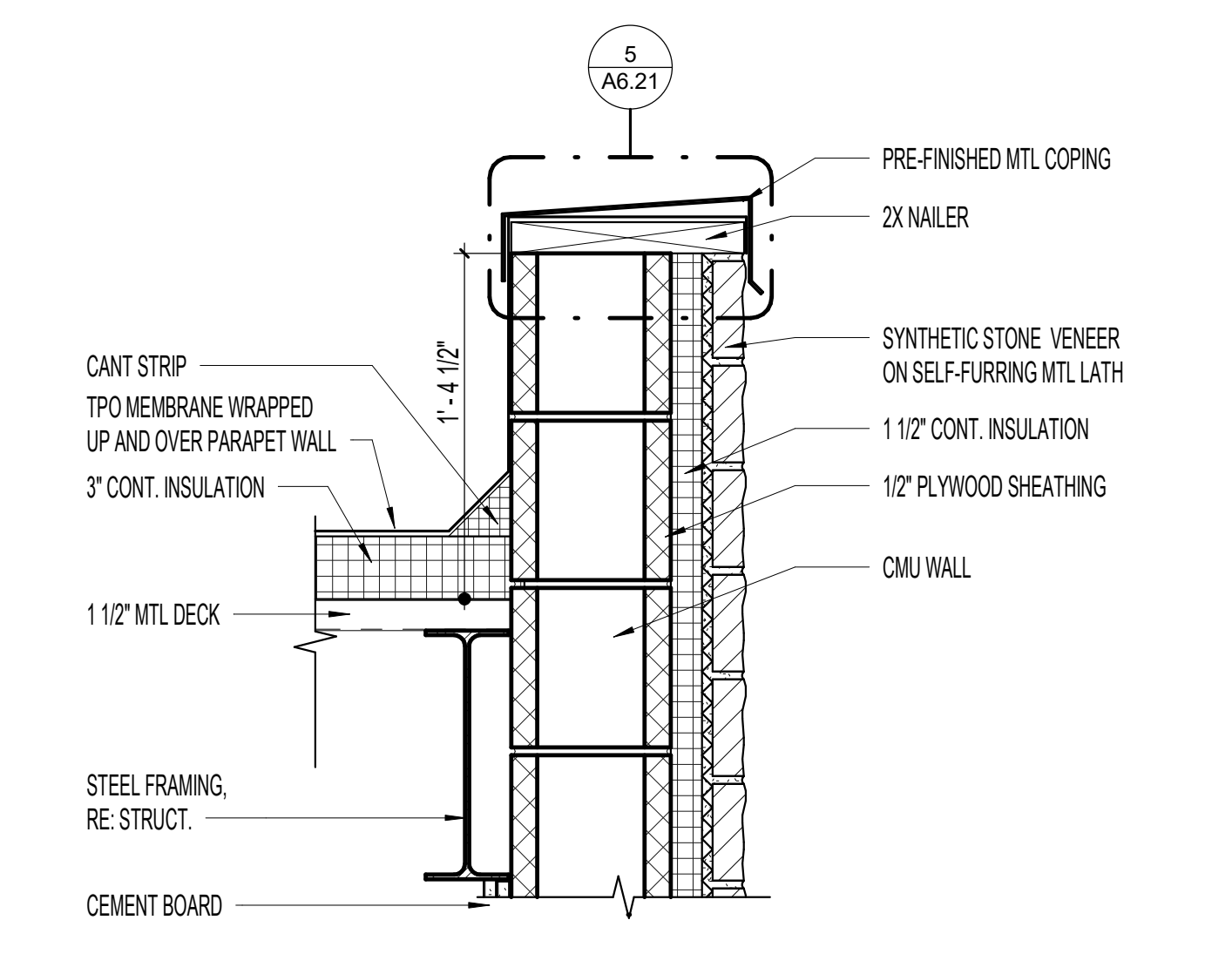
8 SECTION DETAIL - GABLE SOFFIT @ PARAPET PANELS
 1 1/2" = 1'-0"



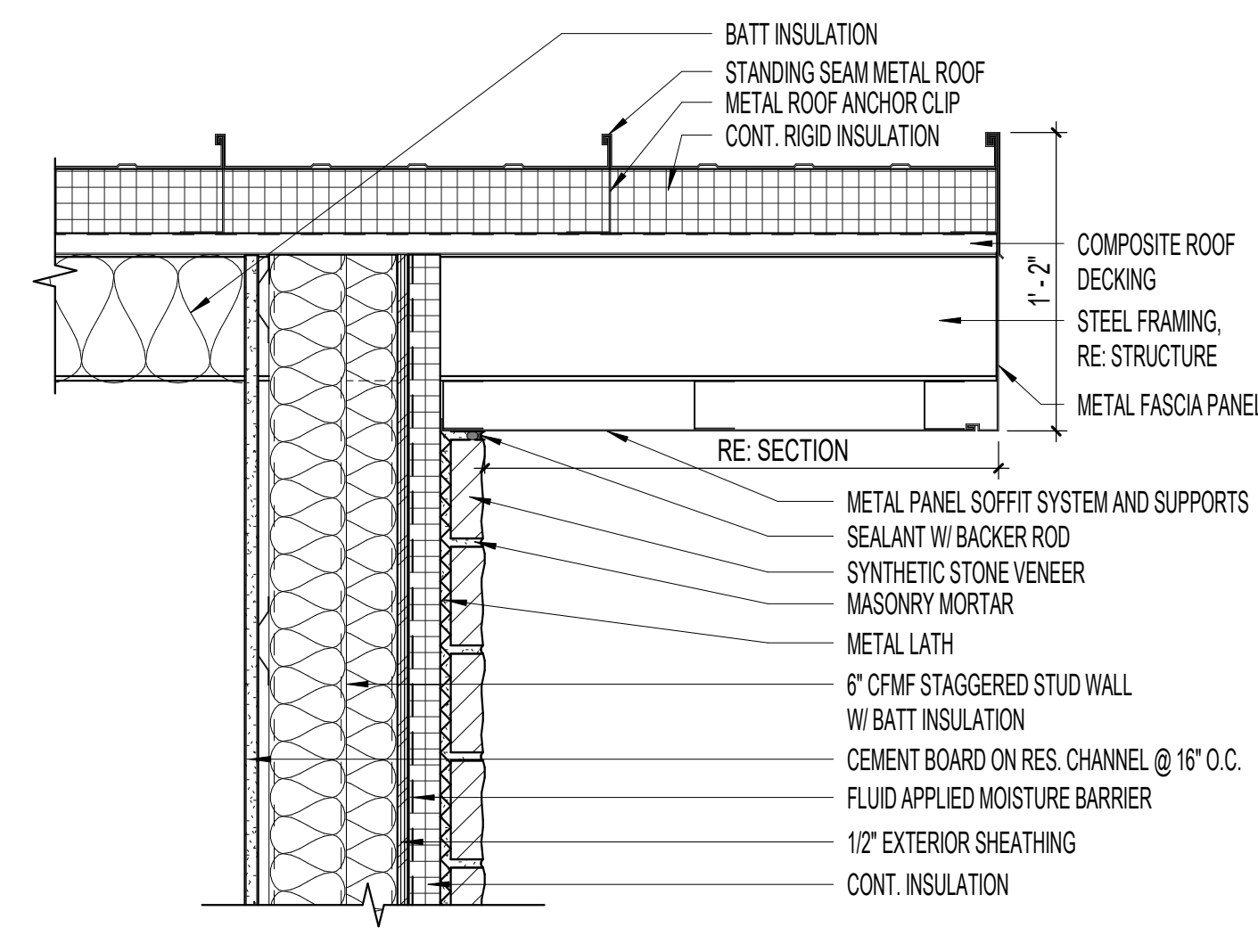
4 SECTION DETAIL - GABLE SOFFIT @ METAL PANEL
 1 1/2" = 1'-0"



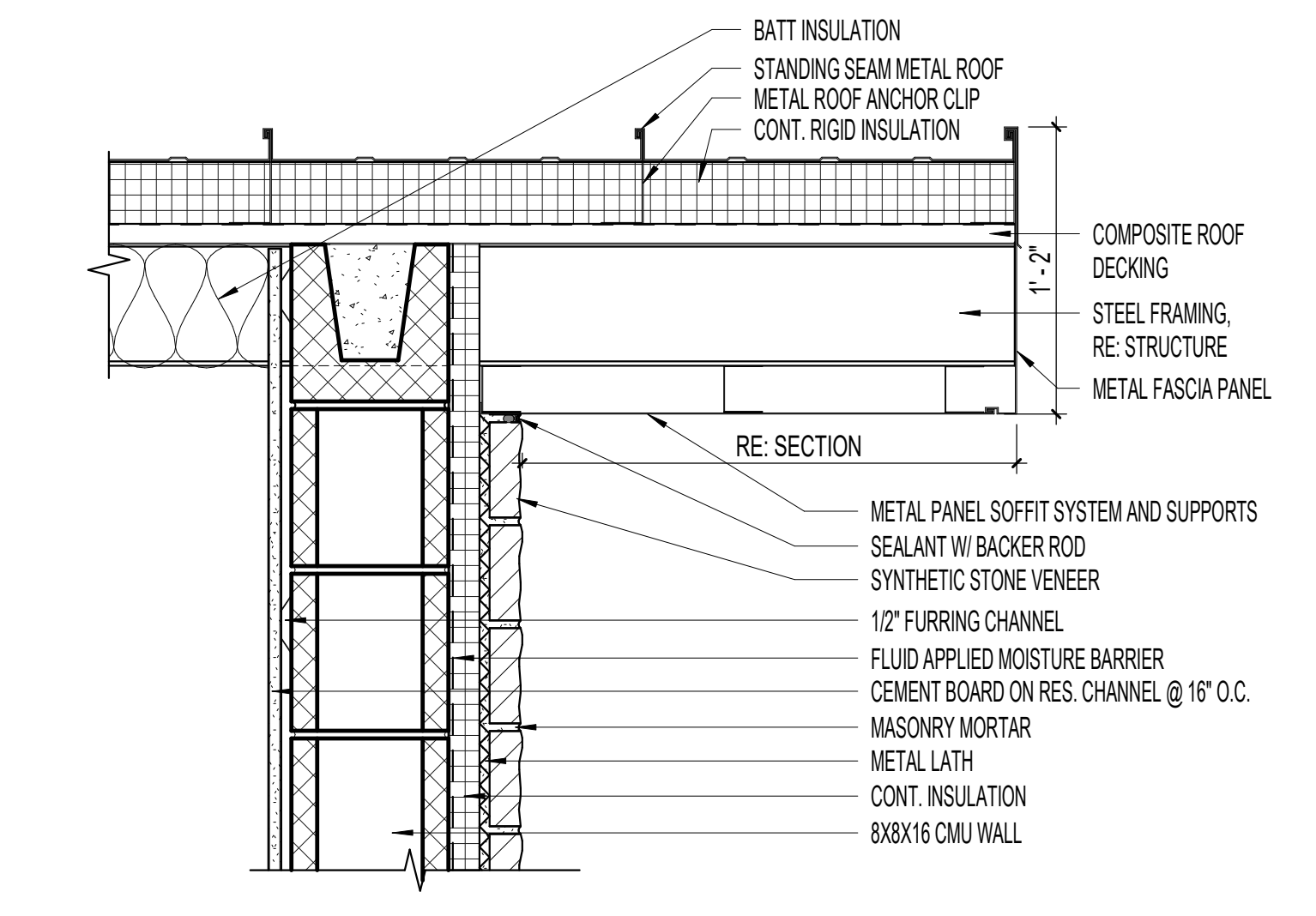
14 GUTTER @ STANDING SEAM ROOF
 1 1/2" = 1'-0"



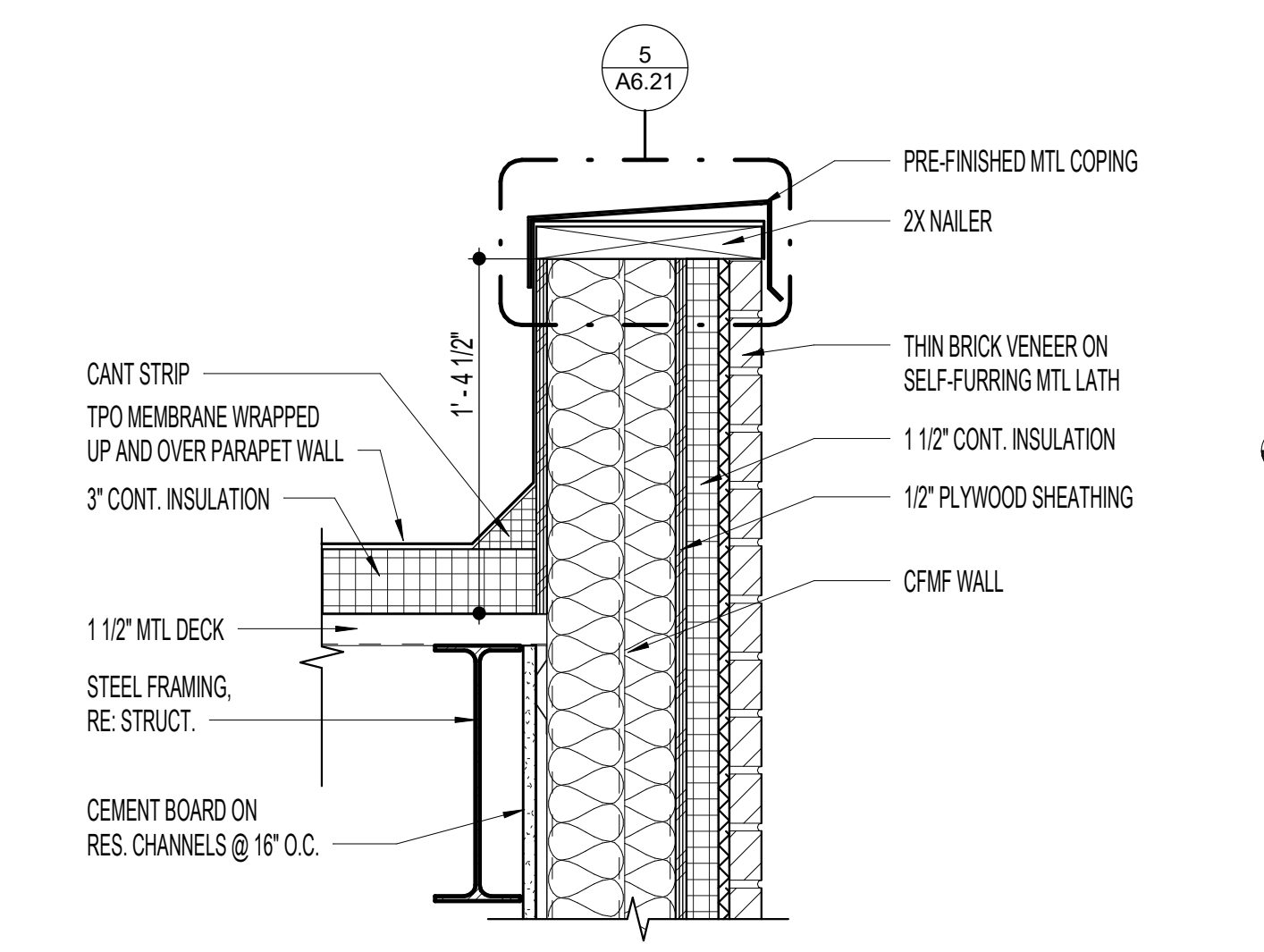
11 PARAPET @ STONE
 1 1/2" = 1'-0"



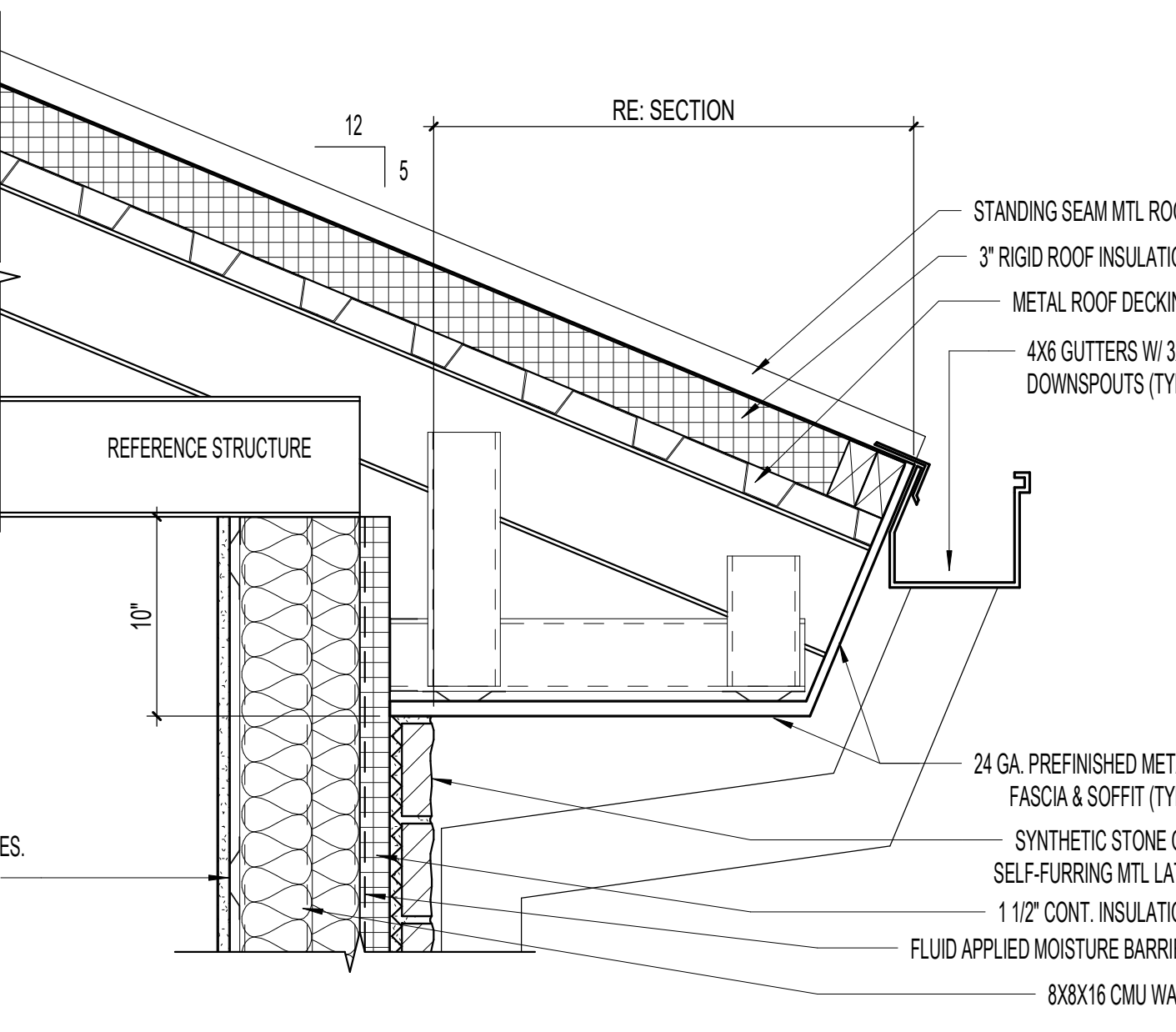
7 SECTION DETAIL - GABLE SOFFIT @ STONE/CFMF
 1 1/2" = 1'-0"



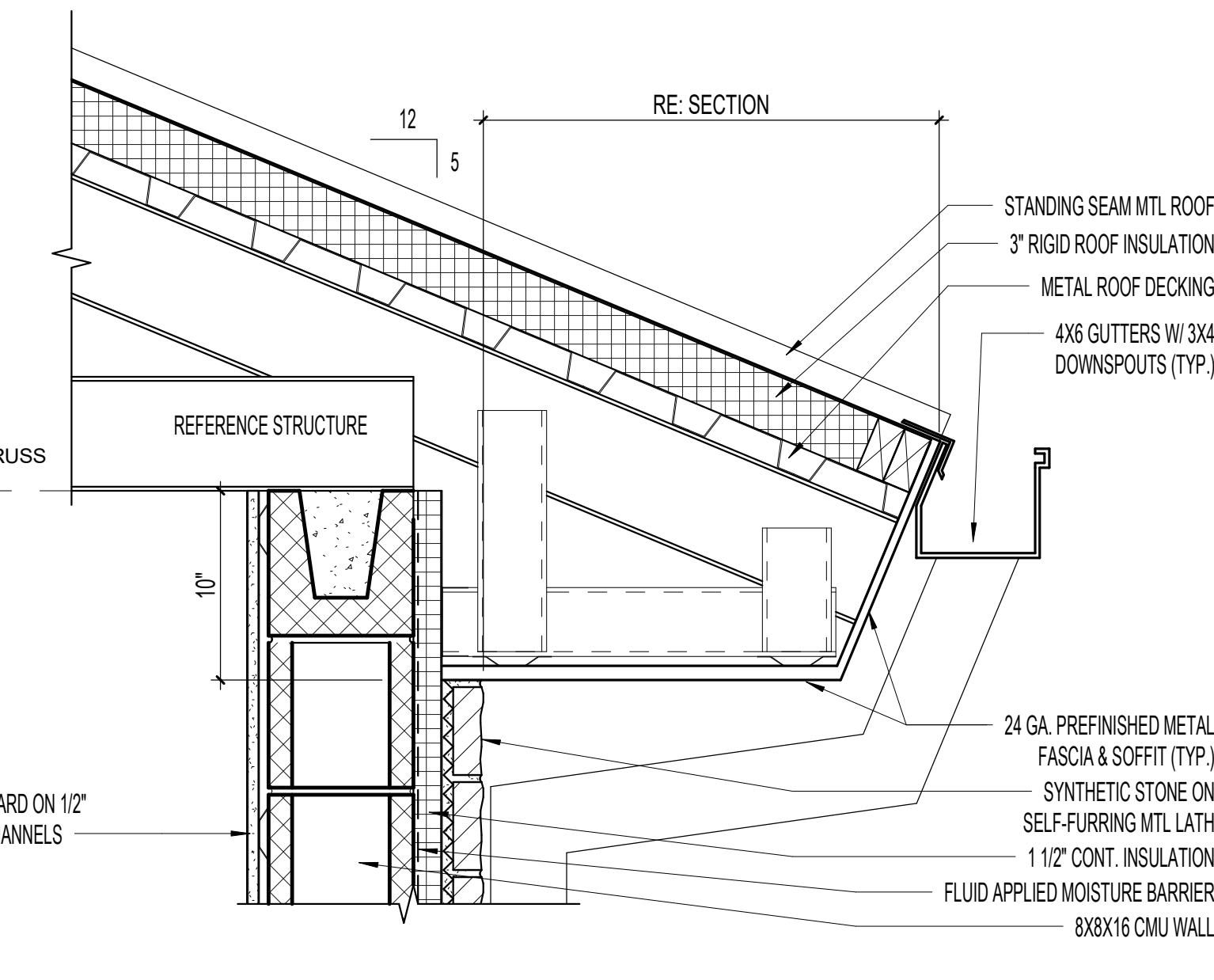
3 SECTION DETAIL - GABLE SOFFIT @ STONE
 1 1/2" = 1'-0"



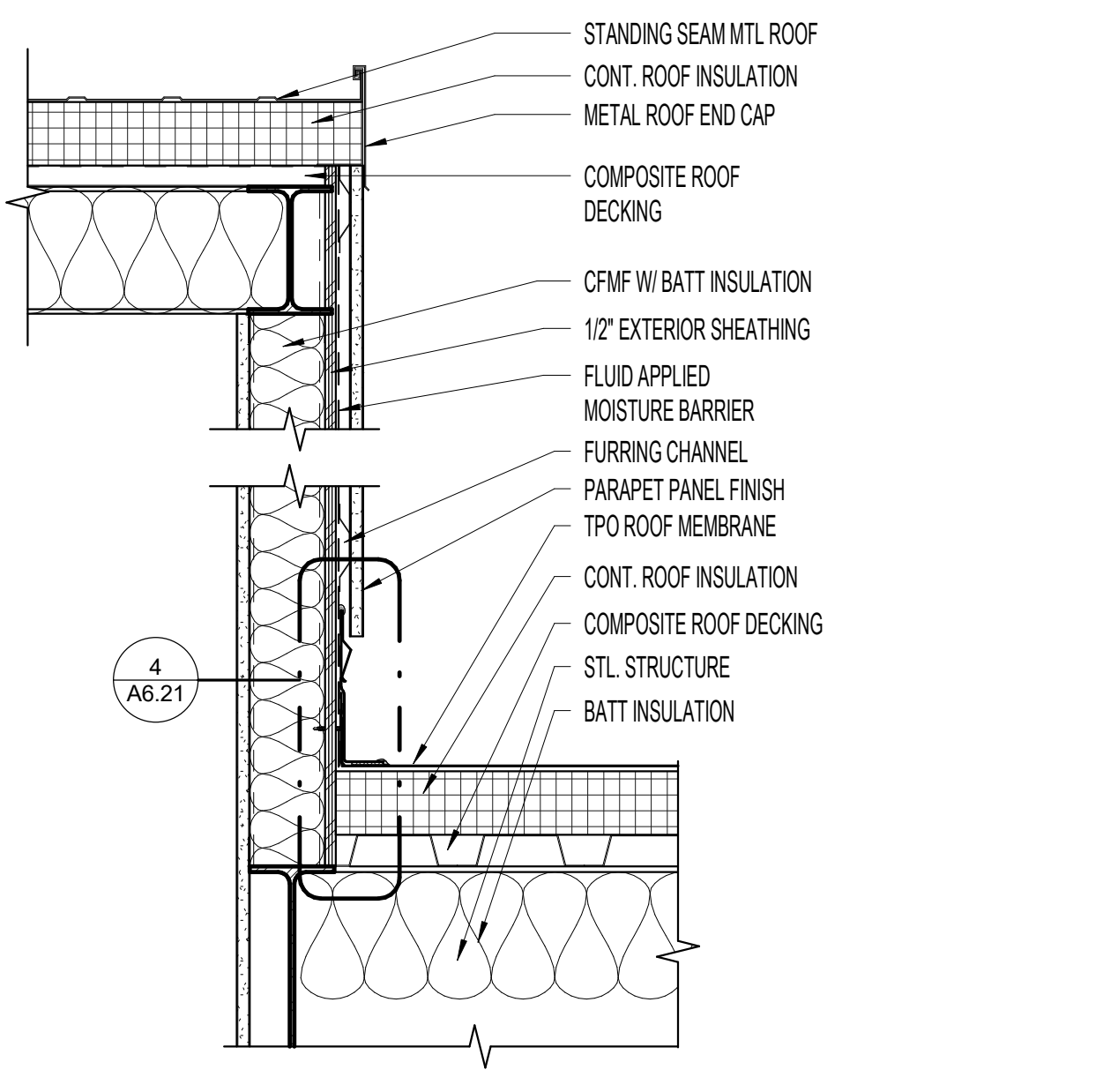
10 PARAPET @ BRICK
 1 1/2" = 1'-0"



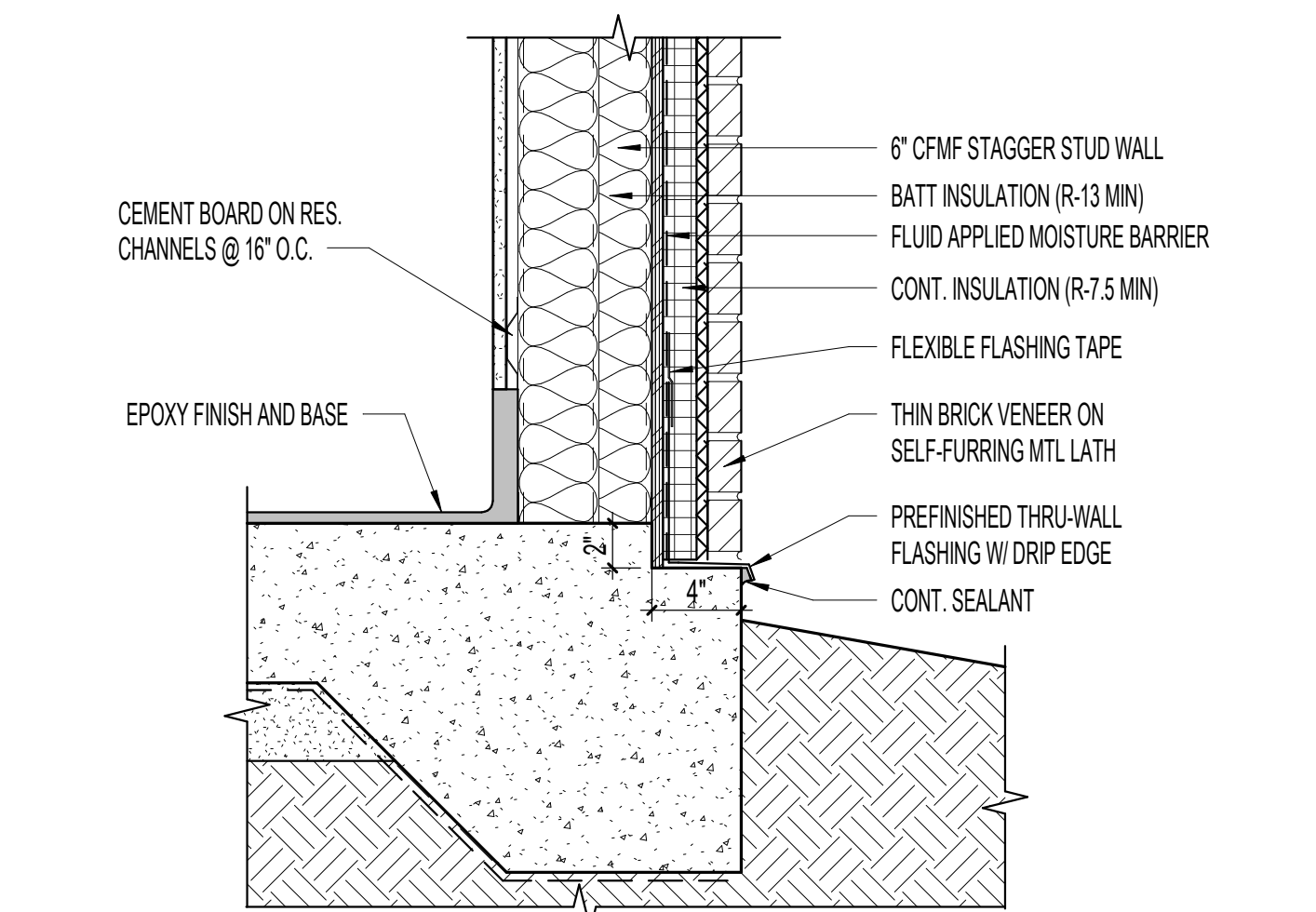
6 STANDING SEAM ROOF - SOFFIT @ STONE - CFMF
 1 1/2" = 1'-0"



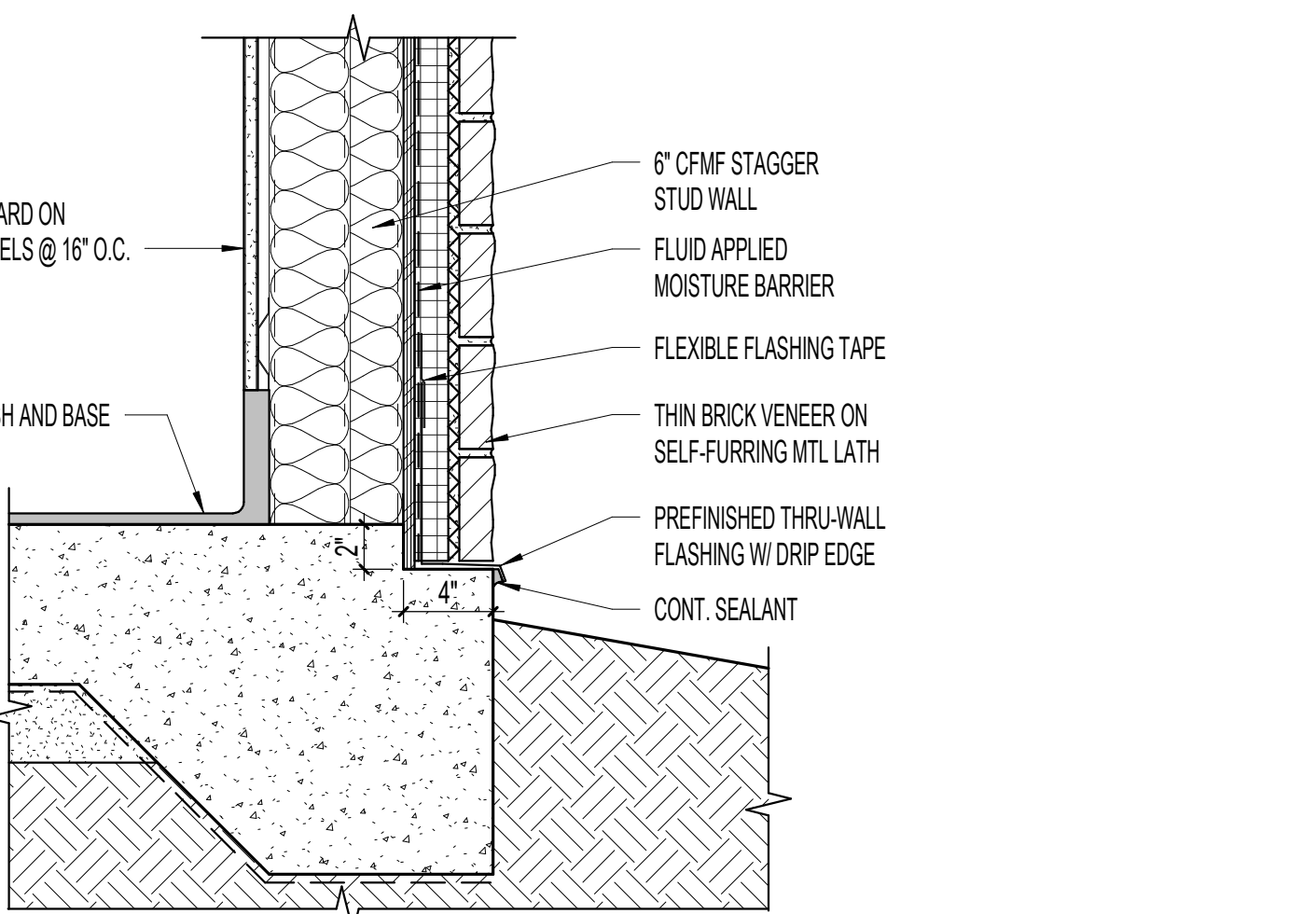
2 STANDING SEAM ROOF - SOFFIT @ STONE
 1 1/2" = 1'-0"



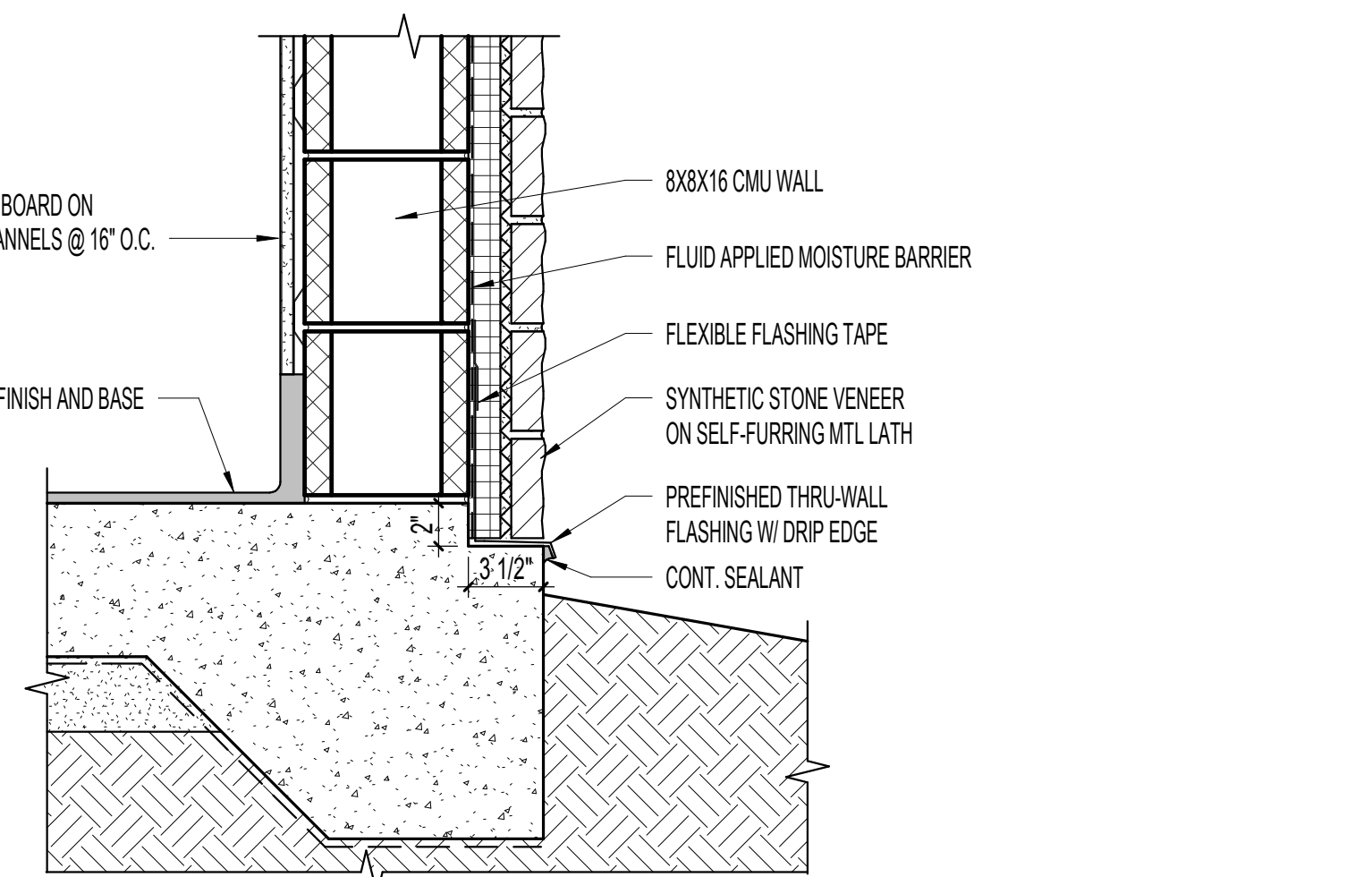
13 STANDING SEAM ROOF EDGE
 1 1/2" = 1'-0"



9 THIN BRICK @ SLAB
 1 1/2" = 1'-0"



5 SUNTHETIC STONE VENEER @ SLAB & CFMF
 1 1/2" = 1'-0"

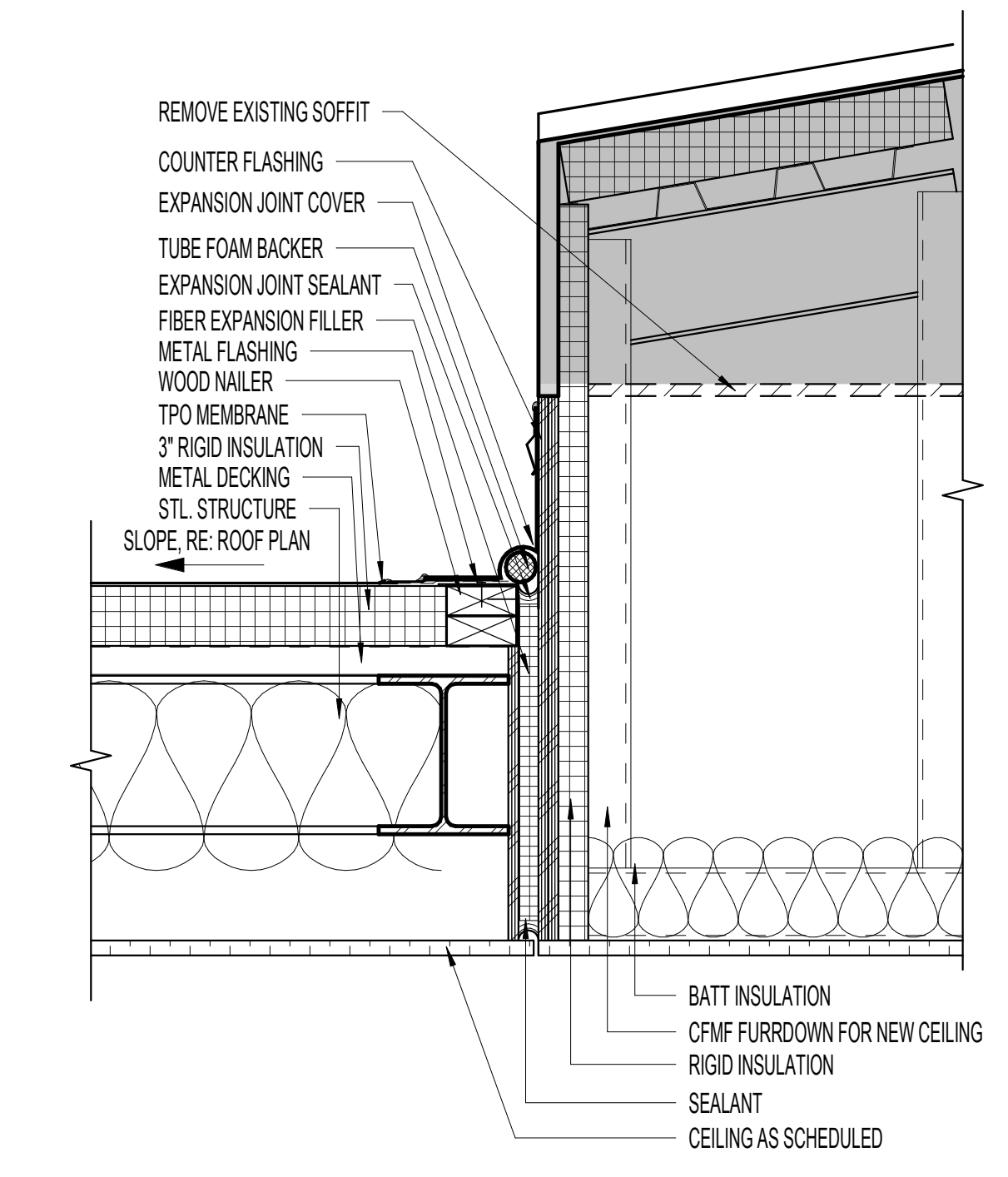


1 SYNTHETIC STONE @ SLAB
 1 1/2" = 1'-0"

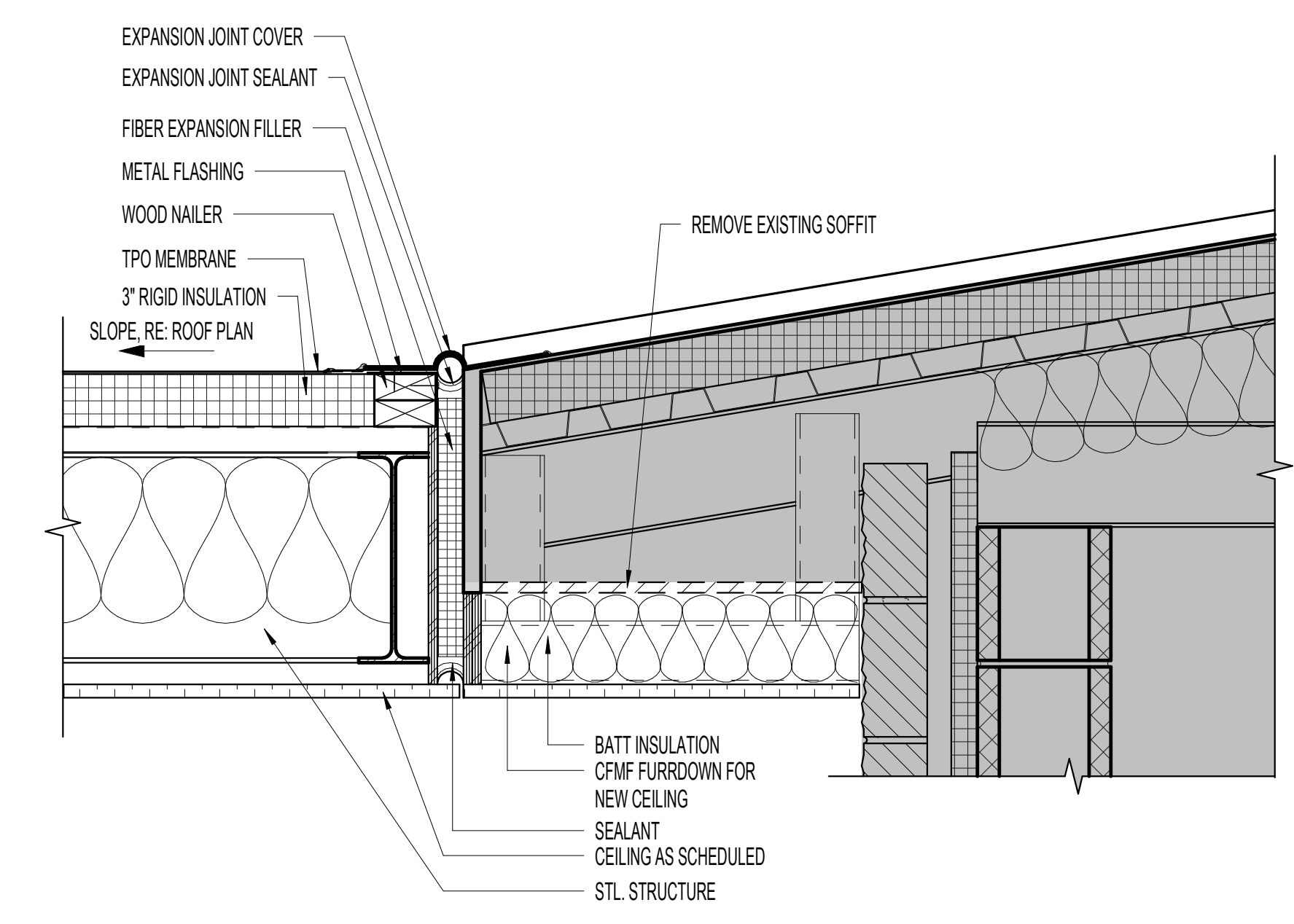
Revisions:

REV.	DATE	TITLE

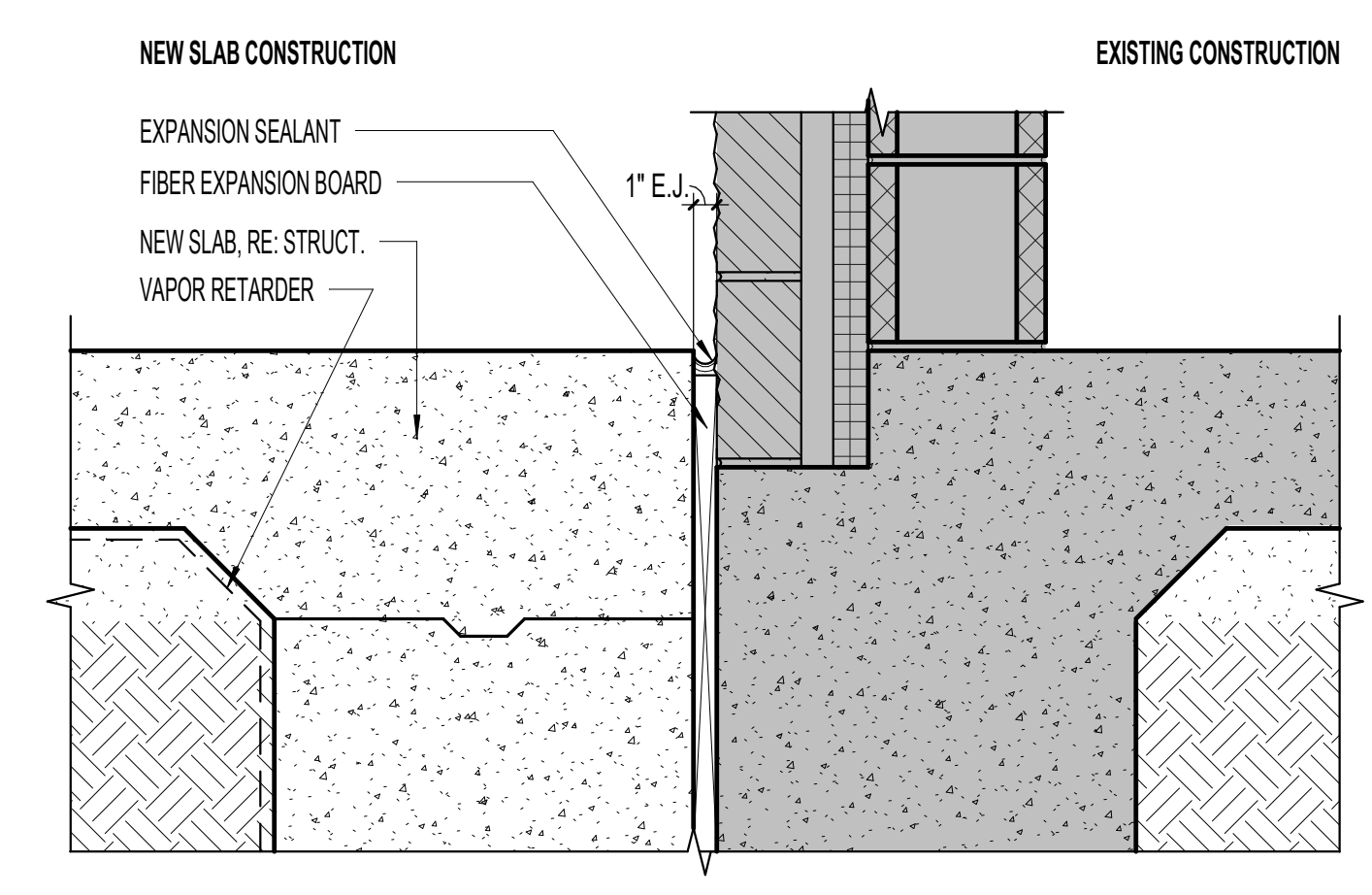
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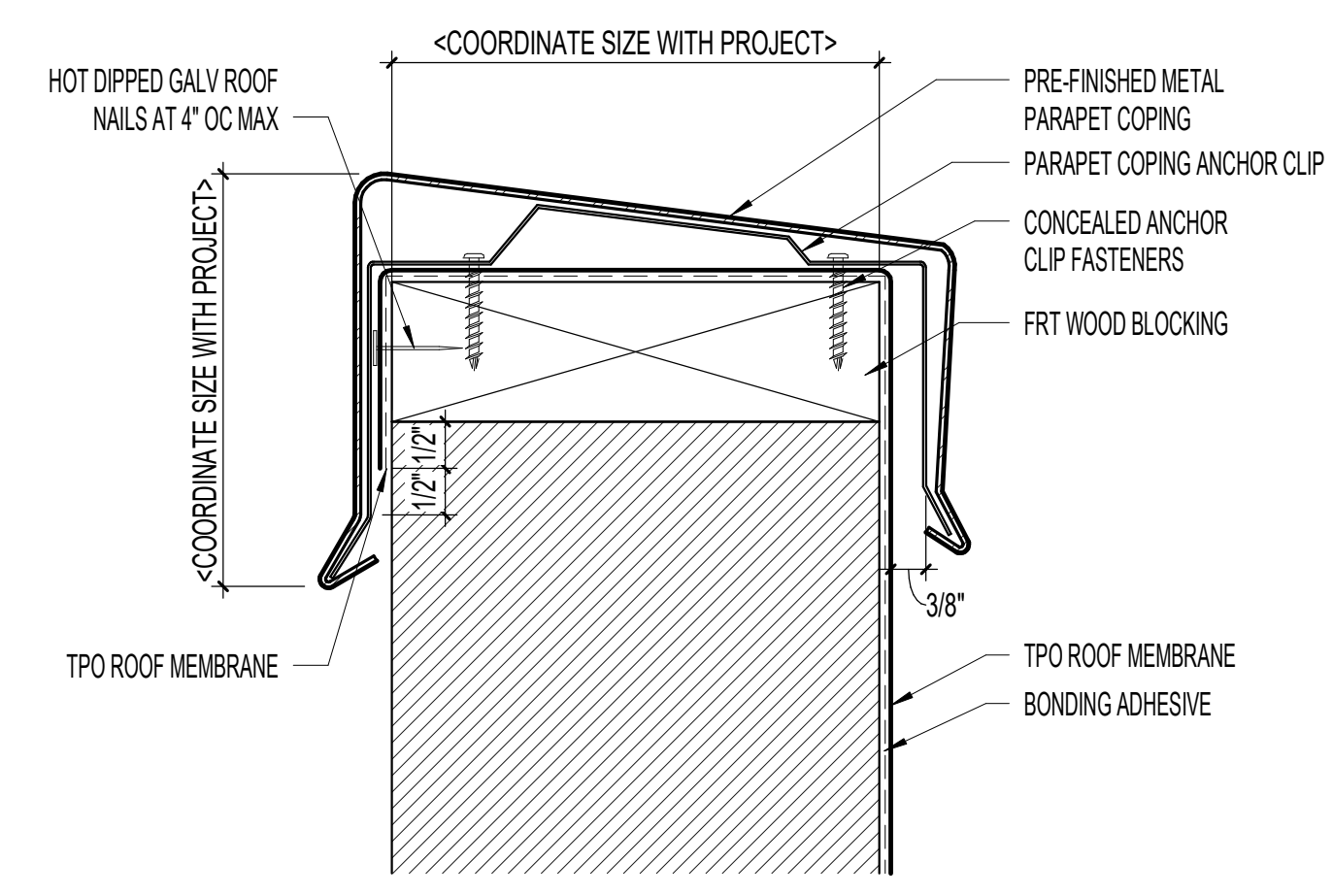
3 EXPANSION JOINT @ EXISTING ROOF
 1 1/2" = 1'-0"



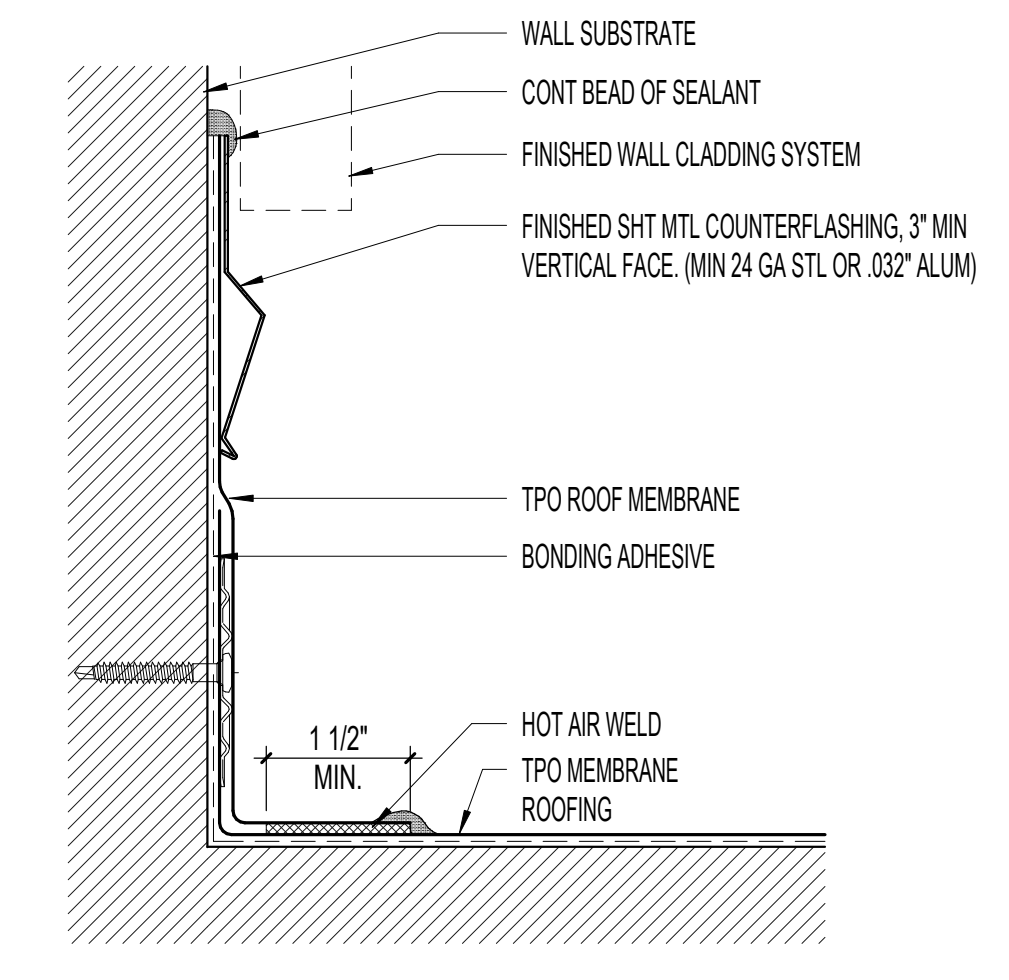
2 EXPANSION JOINT @ EXISTING ROOF
 1 1/2" = 1'-0"



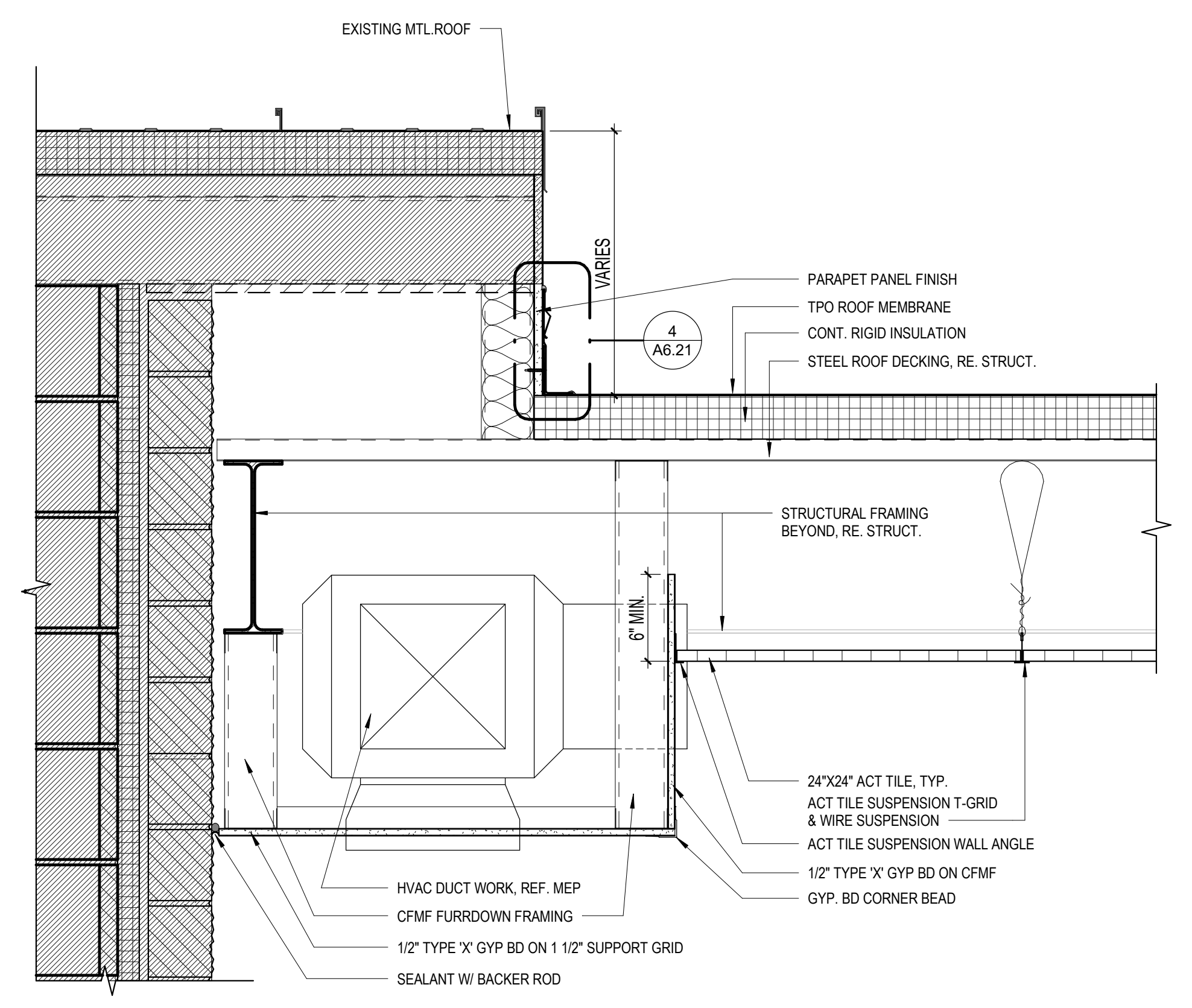
1 EXPANSION JOINT @ SLAB
 1 1/2" = 1'-0"



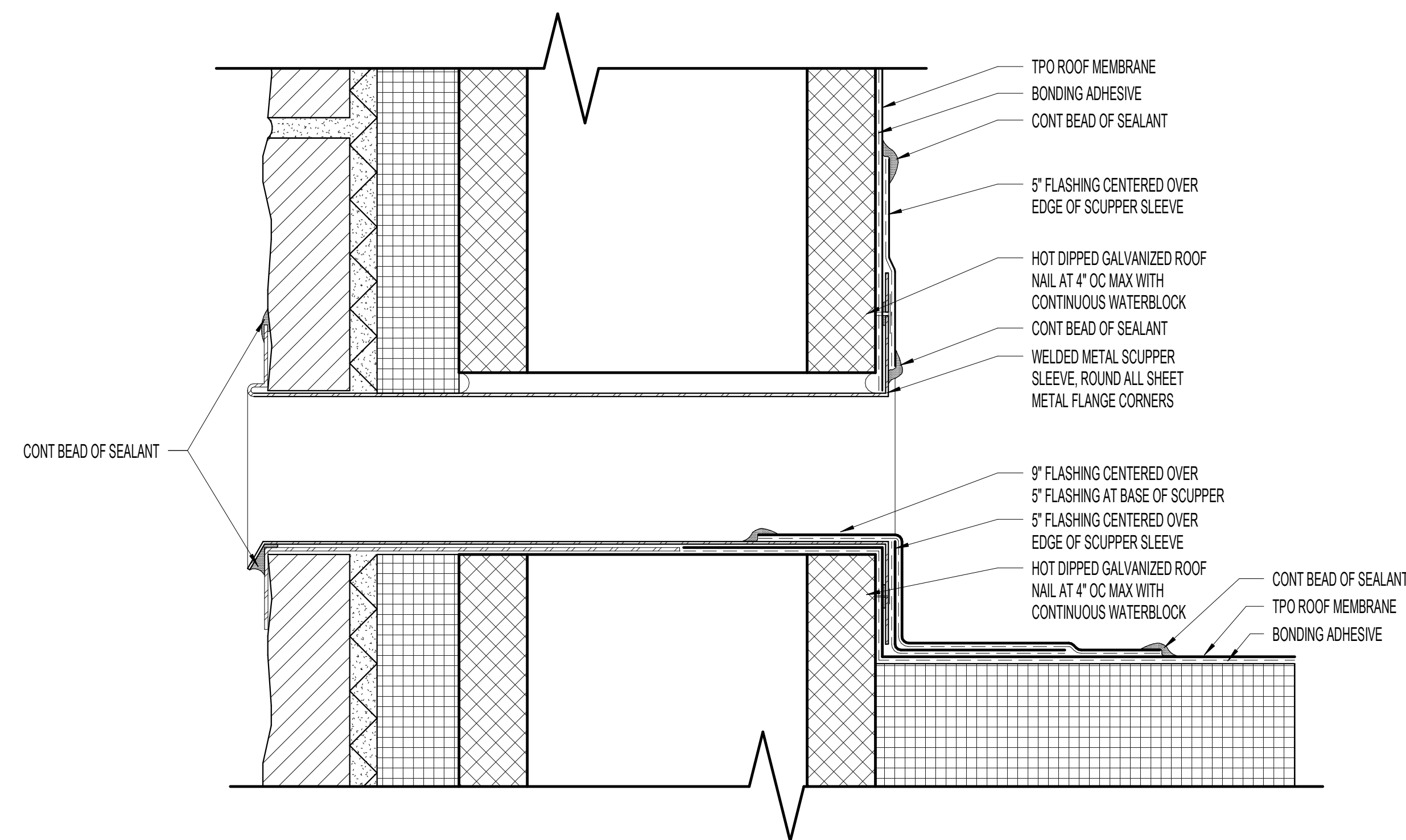
5 TPO - PARAPET CAP DETAIL
 6" = 1'-0"



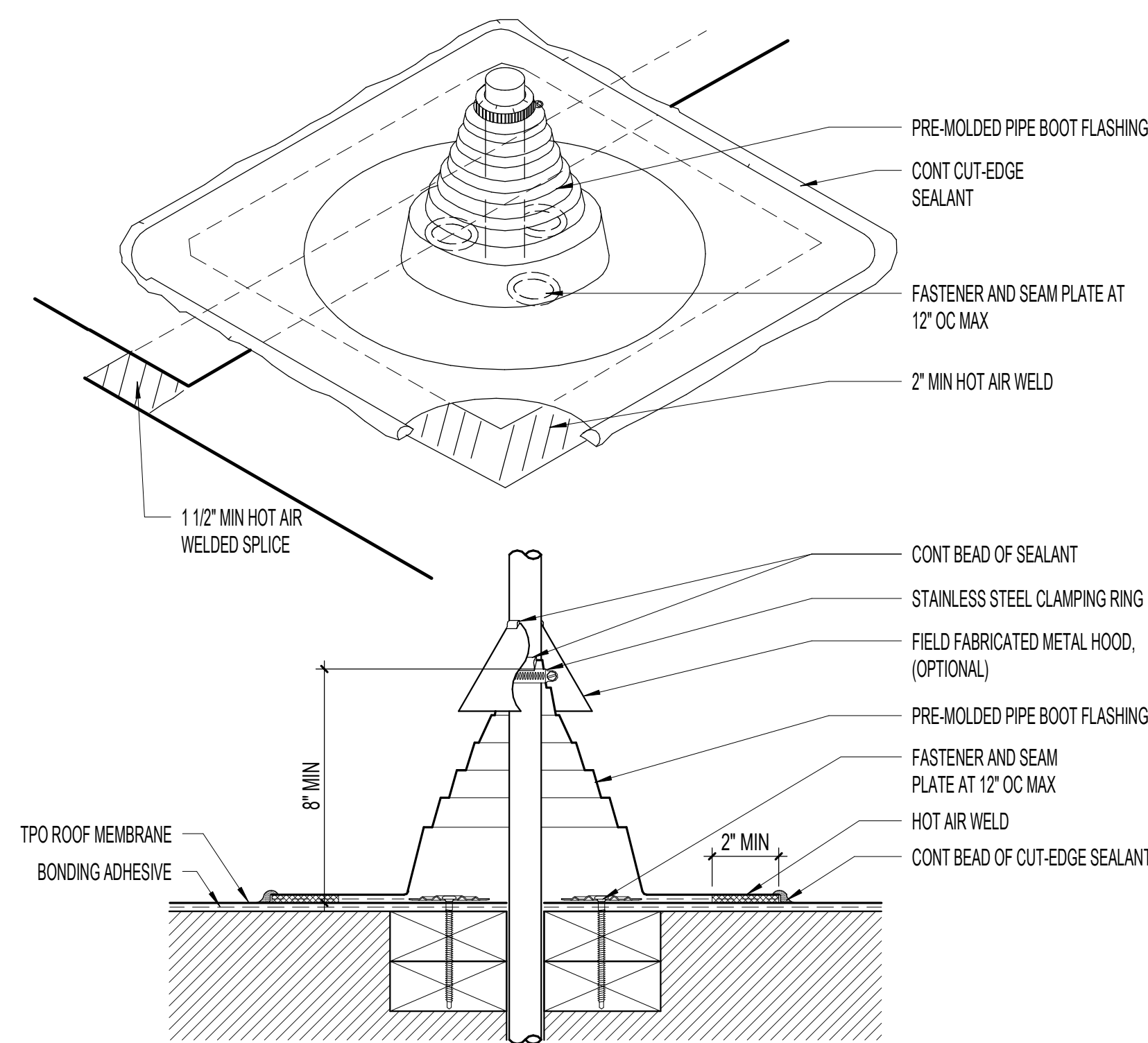
4 TPO - COUNTERFLASHING
 6" = 1'-0"



6 Detail @ tpo to existing roof
 1 1/2" = 1'-0"

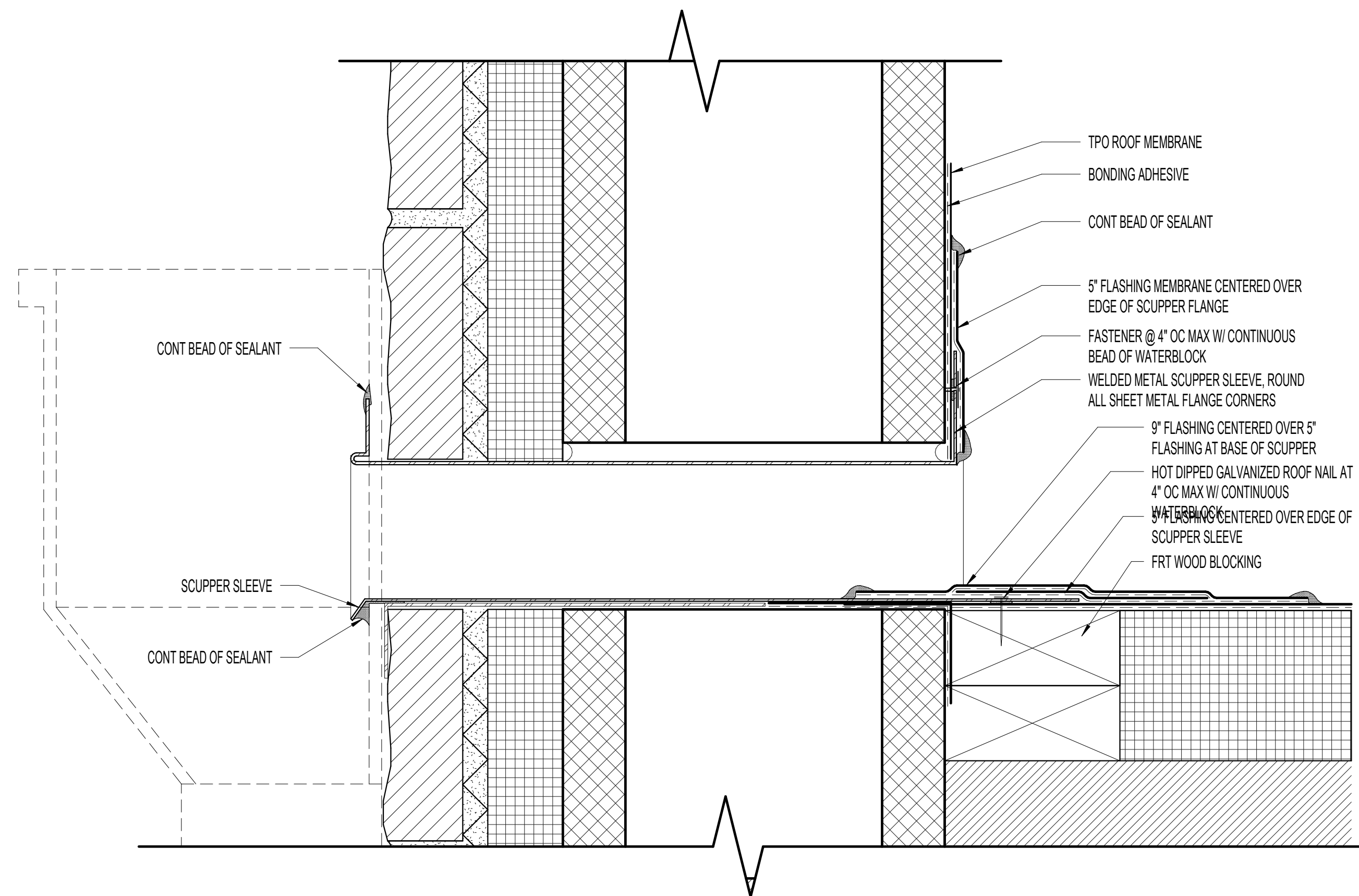


14 TPO - OVERFLOW SCUPPER DETAIL
6" = 1'-0"

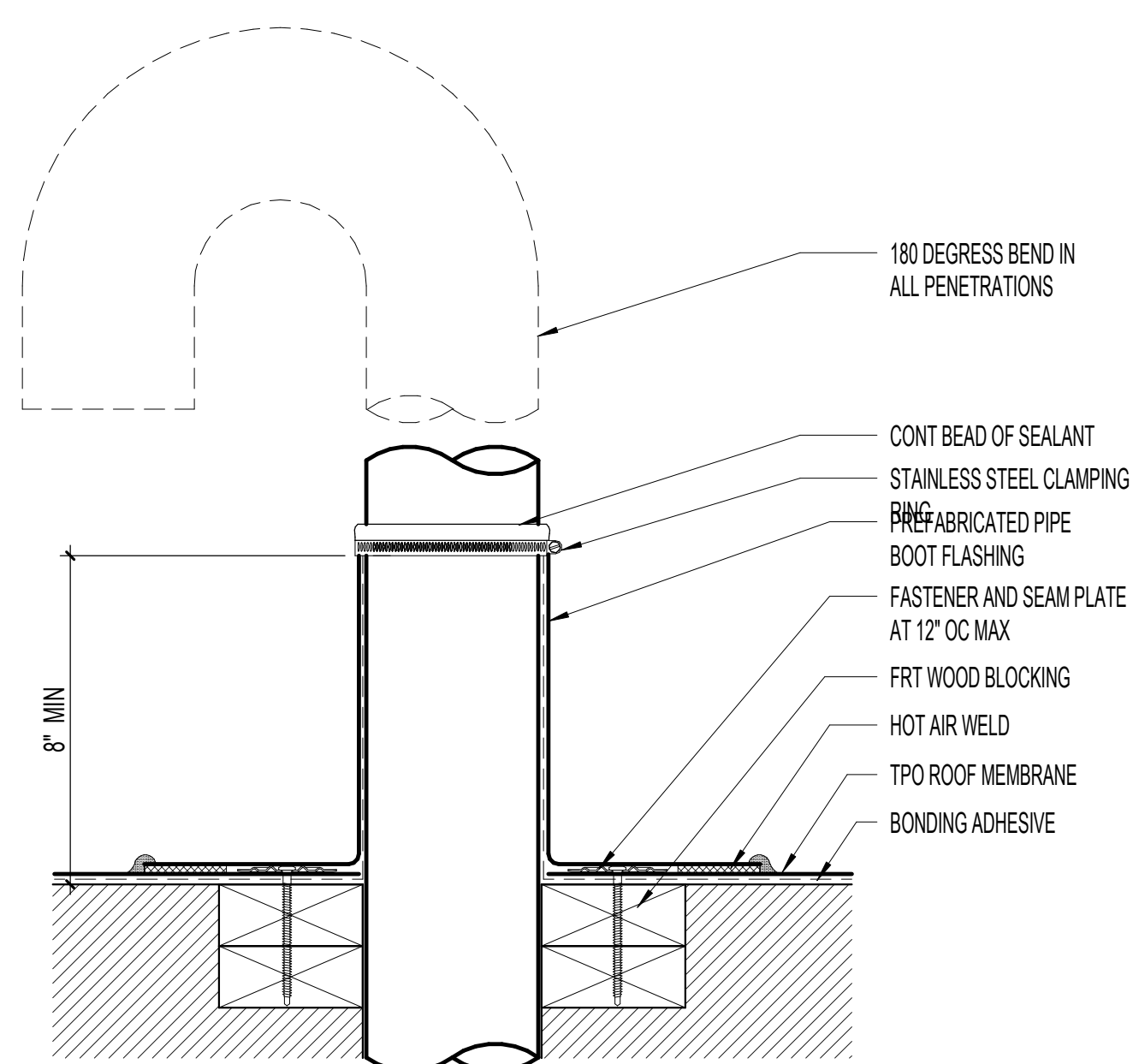


NOTES:
1. PIPE FLASHING DECK FLANGE MUST BE HOT AIR WELDED A MINIMUM OF 1-1/2" BEYOND FASTENING PLATES.
2. INSTALL A SECTION OF REINFORCED MEMBRANE OVER SPLICE INTERSECTIONS PRIOR TO INSTALLING PRE-MOLDED PIPE FLASHING.
3. GC TO COORDINATE INSTALLATION WITH MANUFACTURER'S RECOMMENDATIONS.

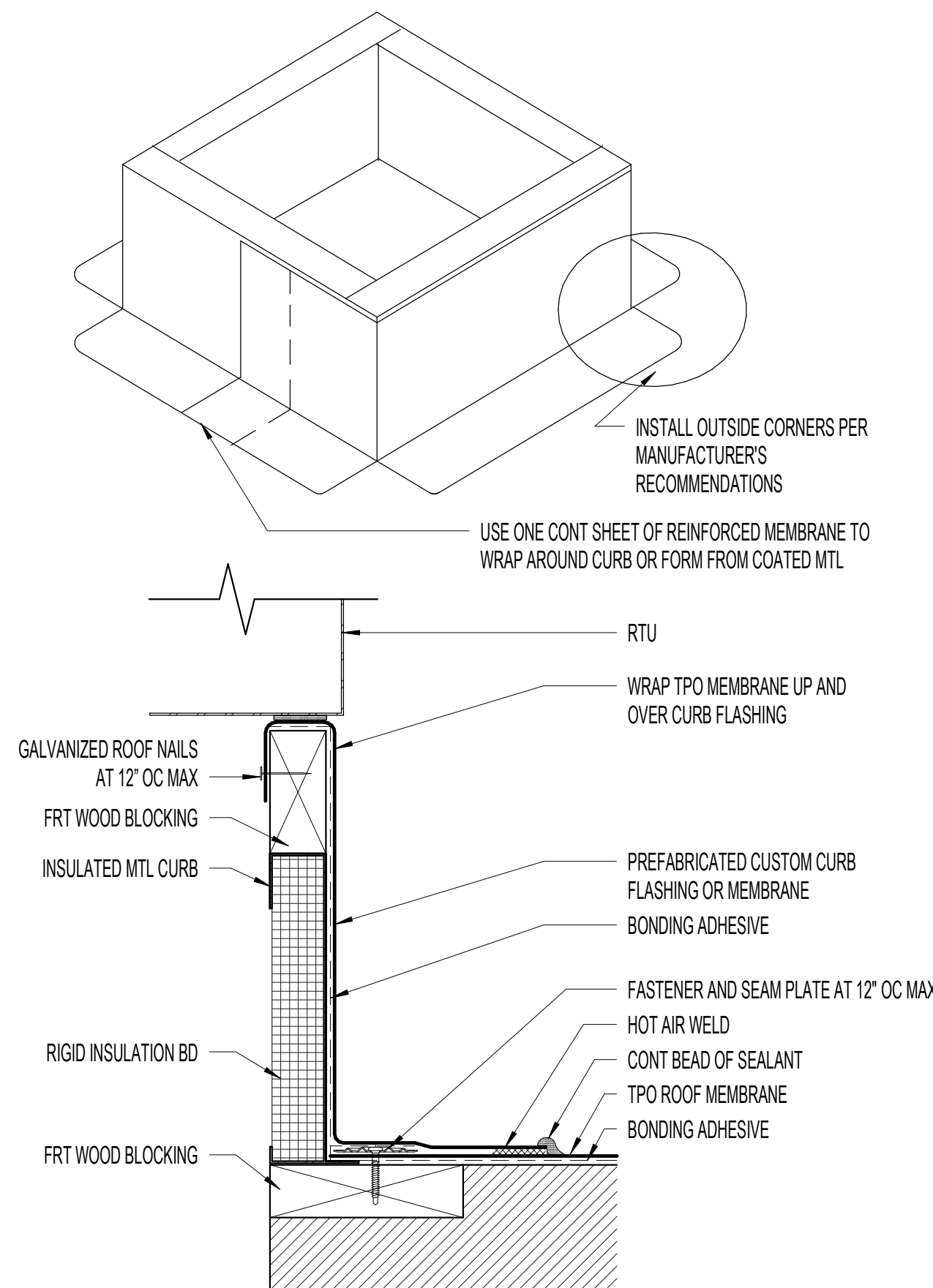
11 TPO - PIPE FLASHING DETAIL
3" = 1'-0"



13 TPO - SCUPPER DETAIL
6" = 1'-0"

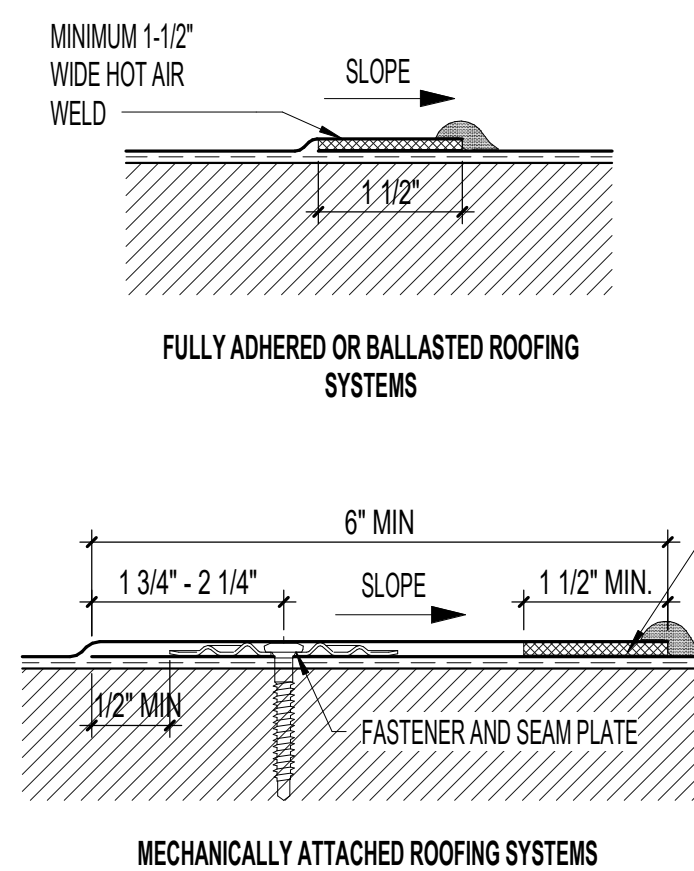


12 TPO - ROOF PENETRATION DETAIL
3" = 1'-0"



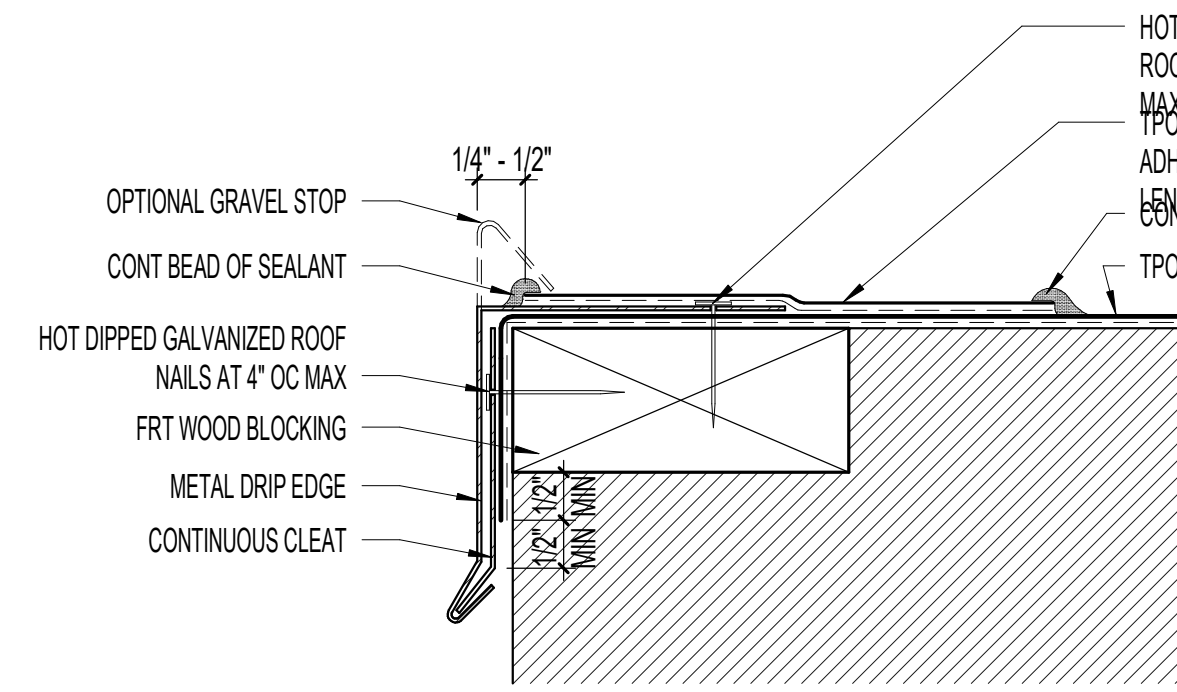
NOTES:
1. BONDING ADHESIVE IS NOT REQUIRED WHEN FLASHING HEIGHT IS 12" OR LESS AND MEMBRANE IS FASTENED "AS SHOWN" AT TOP OF CURB.
2. BONDING ADHESIVE IS REQUIRED BETWEEN MEMBRANE AND INSULATION OR FULLY ADHERED SYSTEMS.
3. APPROXIMATELY 1/8" BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.

10 TPO - INSULATED CURB FLASHING DETAIL
3" = 1'-0"



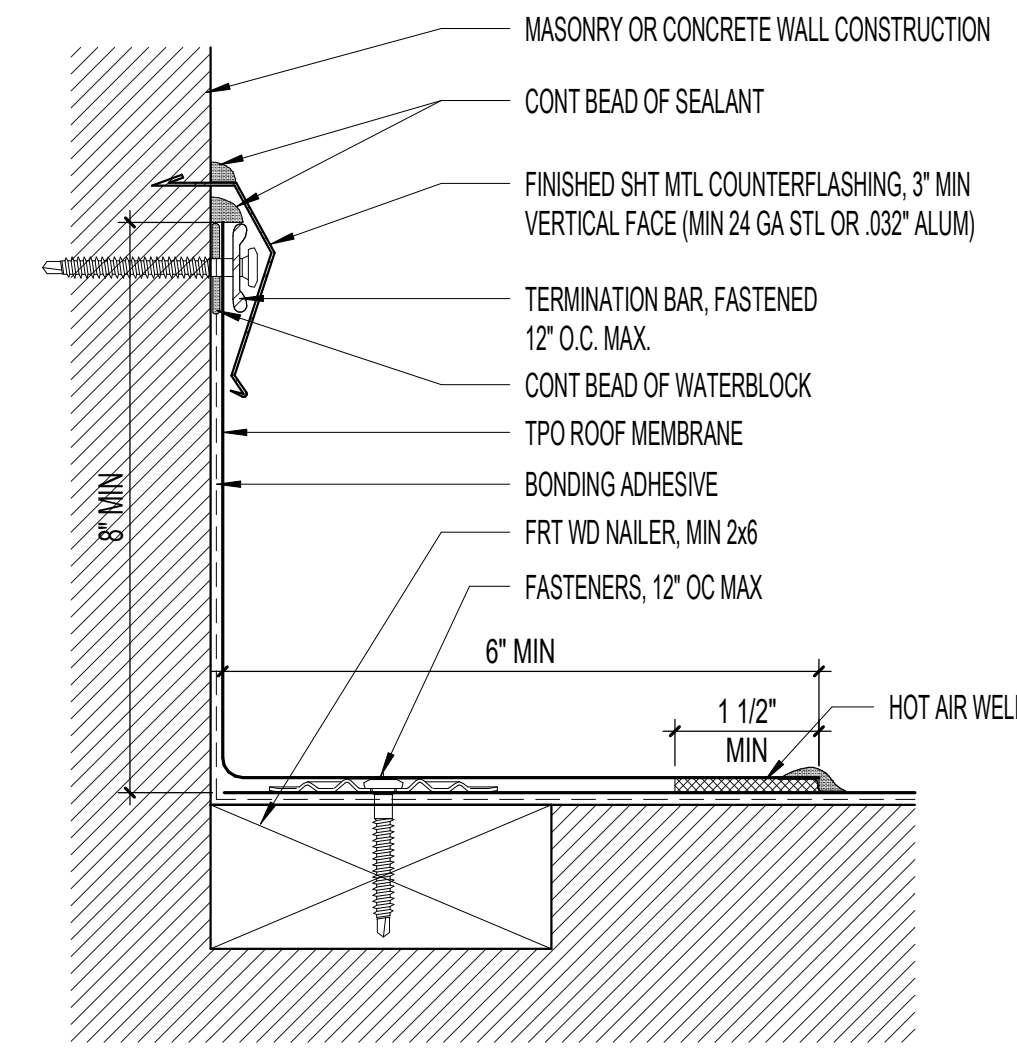
NOTE:
1. APPROX. 1/8" DIA BEAD OF CUT-EDGE SEALANT IS REQUIRED ON CUT EDGES OF REINFORCED MEMBRANE.

09 TPO - LAP SPLICE DETAIL
6" = 1'-0"



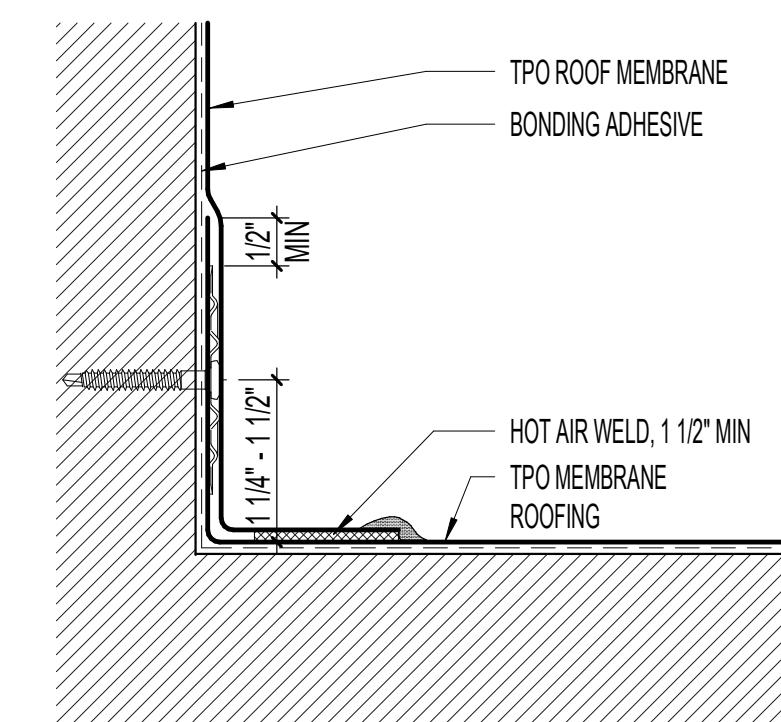
NOTES:
1. METAL DRIP EDGE MUST BE FULLY SUPPORTED. MAXIMUM EXTENSION 1/2" FROM FACE OF FRT WOOD NAILER.
2. IF FLANGE OF METAL DRIP EDGE IS NOT FULLY COVERED BY SEAM FLASHING, AN ADDITIONAL PIECE OF SEAM FLASHING SHALL BE INSTALLED AT ALL METAL SPLICES.

08 TPO - EDGE DETAIL 1
6" = 1'-0"

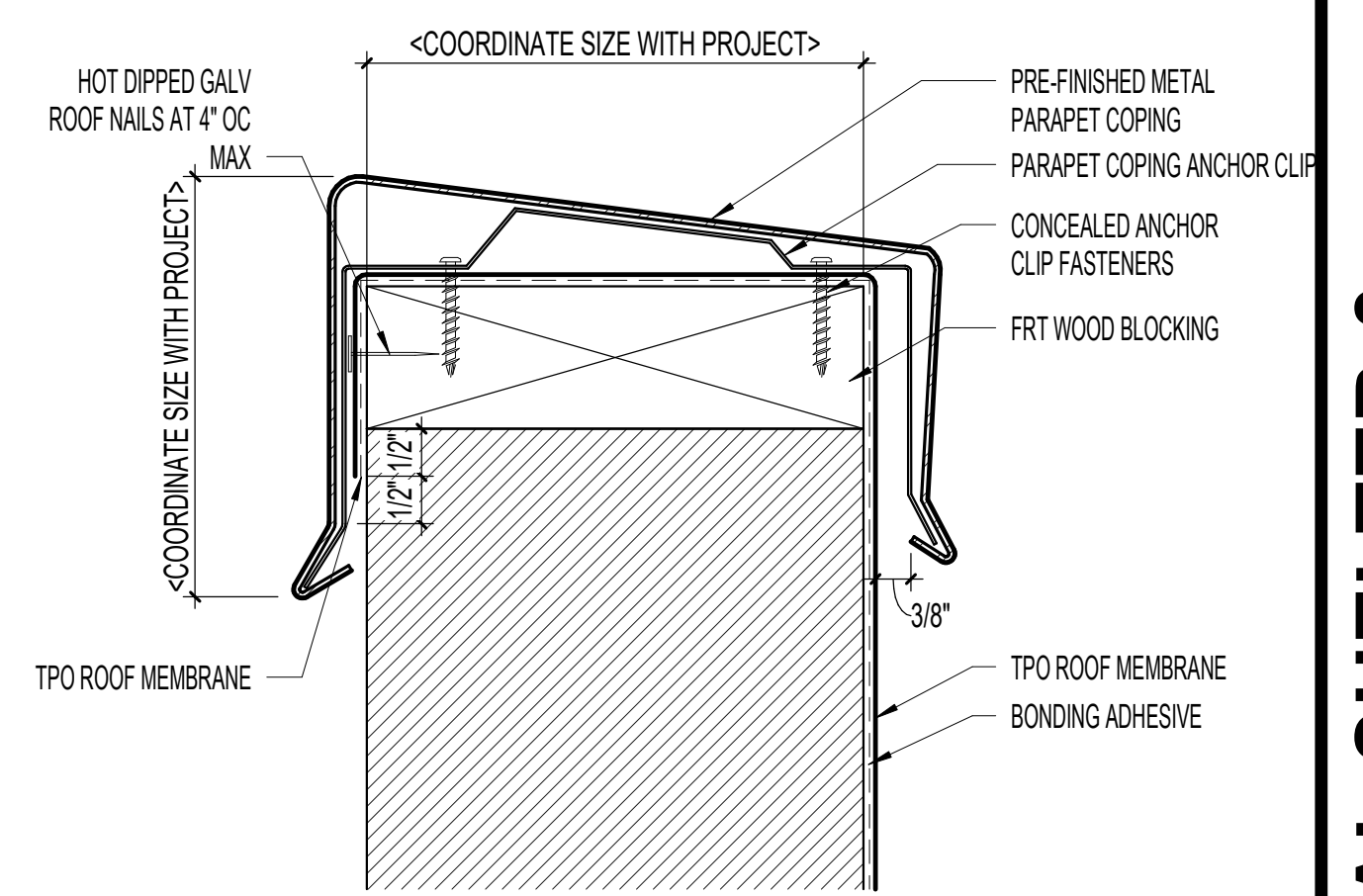


NOTES:
1. WHEN TERMINATION BAR IS USED, ADHESIVE MAY BE ELIMINATED WHEN FLASHING HEIGHT IS 18" OR LESS.
2. HP-X FASTENERS AND PIRANHA PLATES (OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES) ARE REQUIRED OVER STL AND WD DECK.
3. FASTENING PLATES CAN BE INSTALLED VERTICALLY.

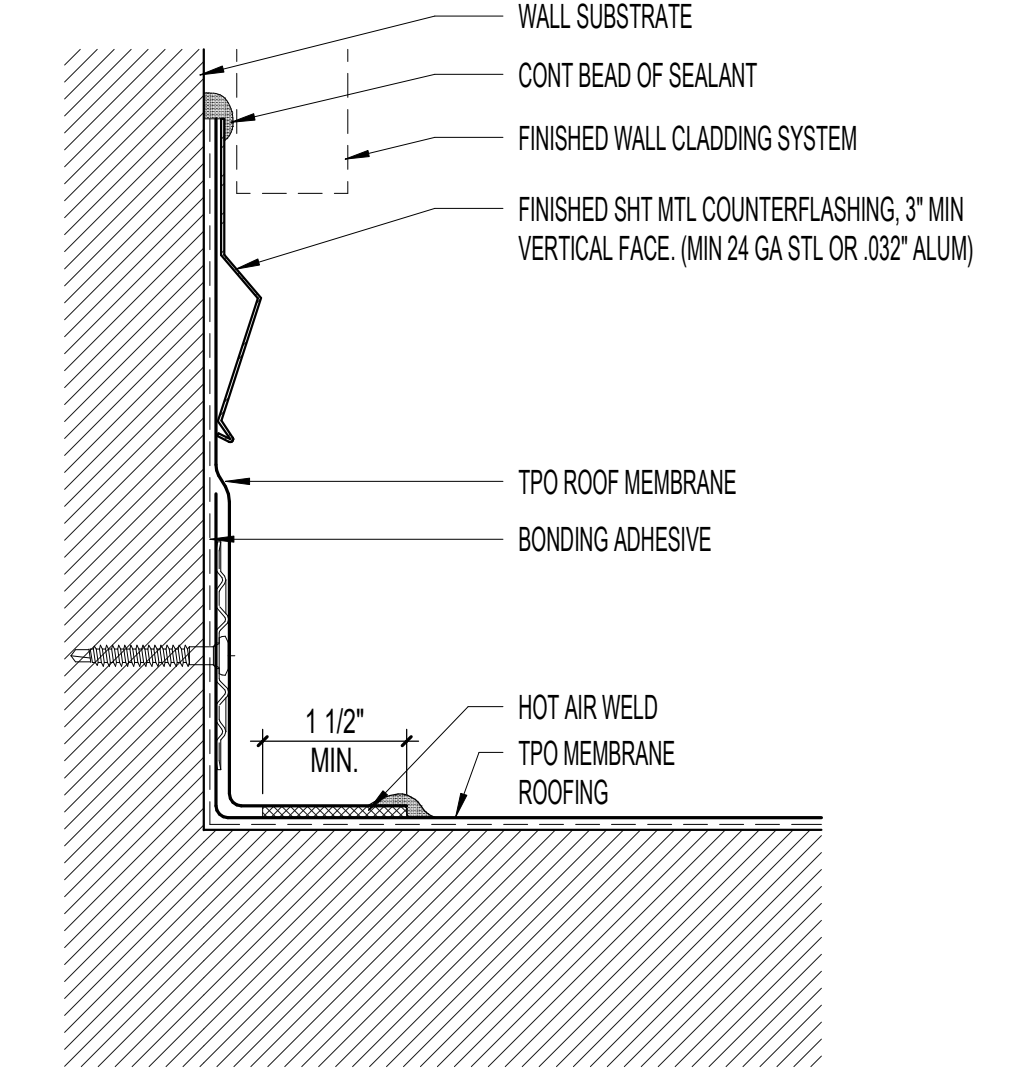
06 TPO - TERMINATION BAR AND FLASHING
6" = 1'-0"



04 TPO - ADHERED WALL FLASHING - OPTION 2
6" = 1'-0"

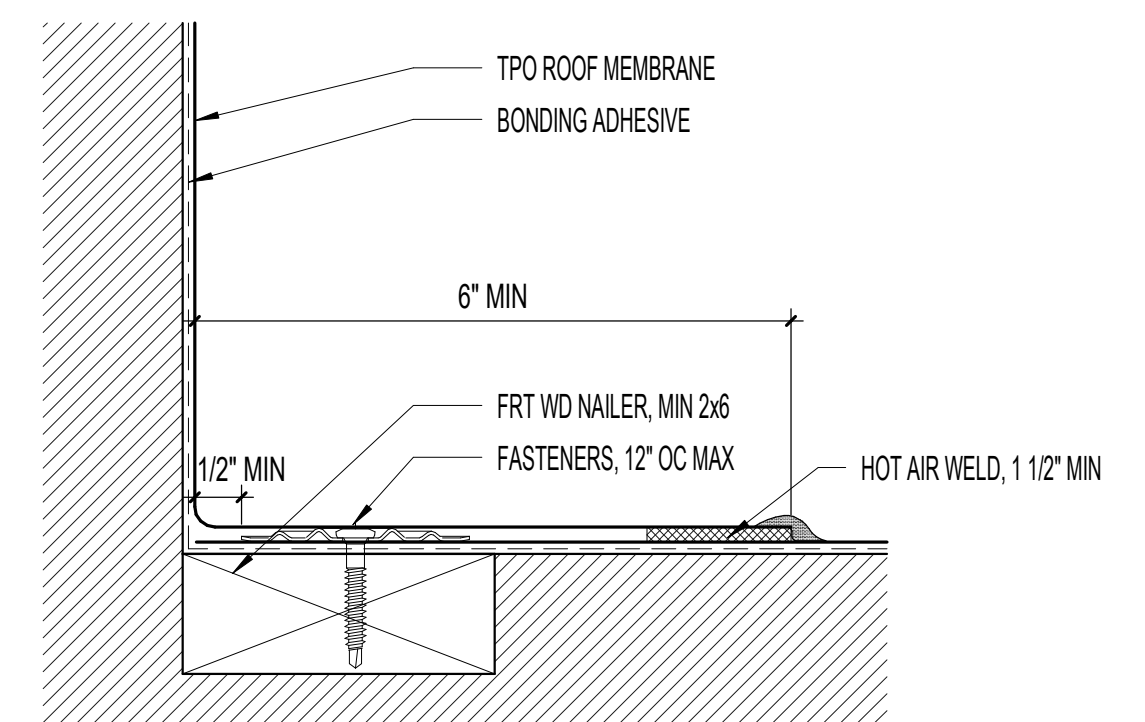


07 TPO - PARAPET CAP DETAIL 1
6" = 1'-0"

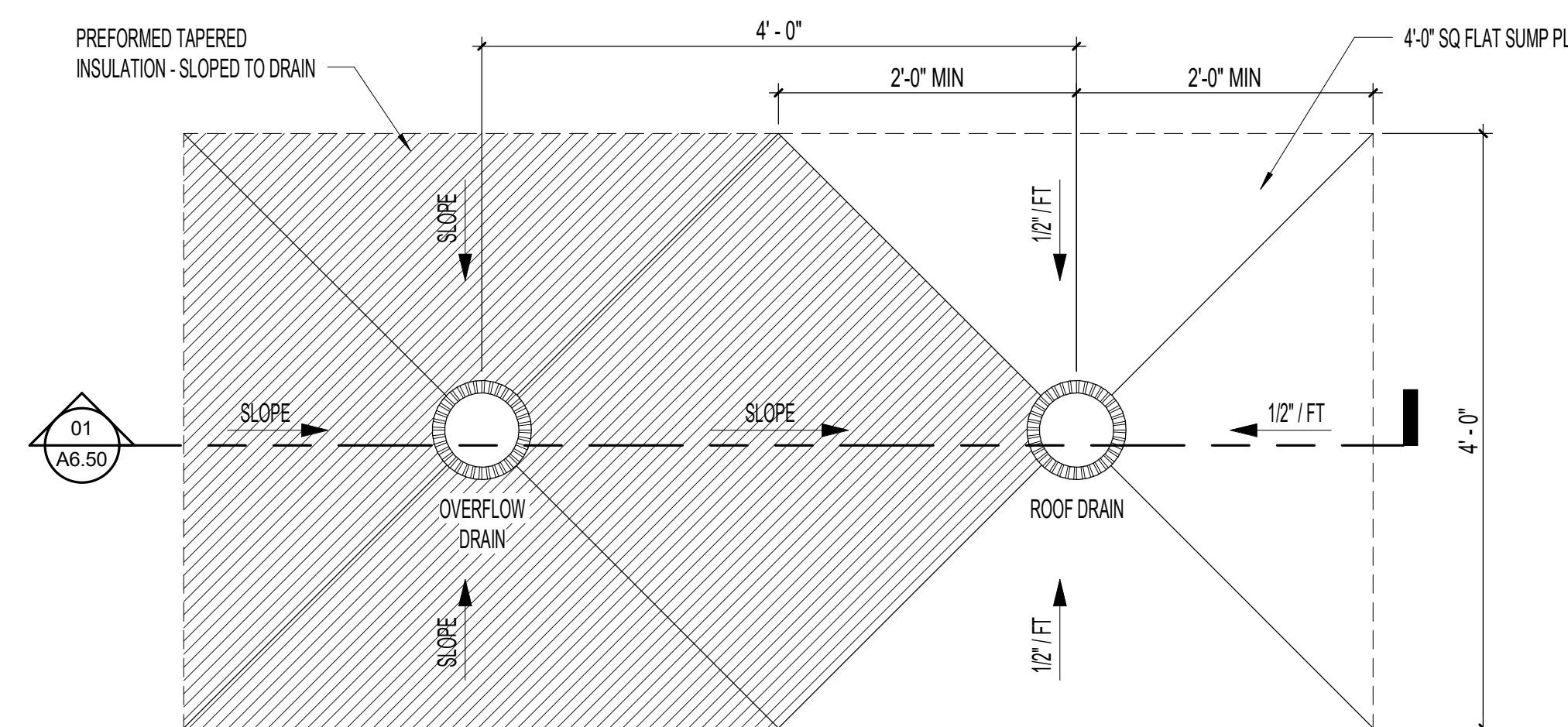


NOTES:
1. WHEN TERMINATION BAR IS USED, ADHESIVE MAY BE ELIMINATED WHEN FLASHING HEIGHT IS 18" OR LESS.
2. HP-X FASTENERS AND PIRANHA PLATES (OR HP-XTRA FASTENERS AND PIRANHA XTRA PLATES) ARE REQUIRED OVER STL AND WD DECK.
3. FASTENING PLATES CAN BE INSTALLED VERTICALLY.

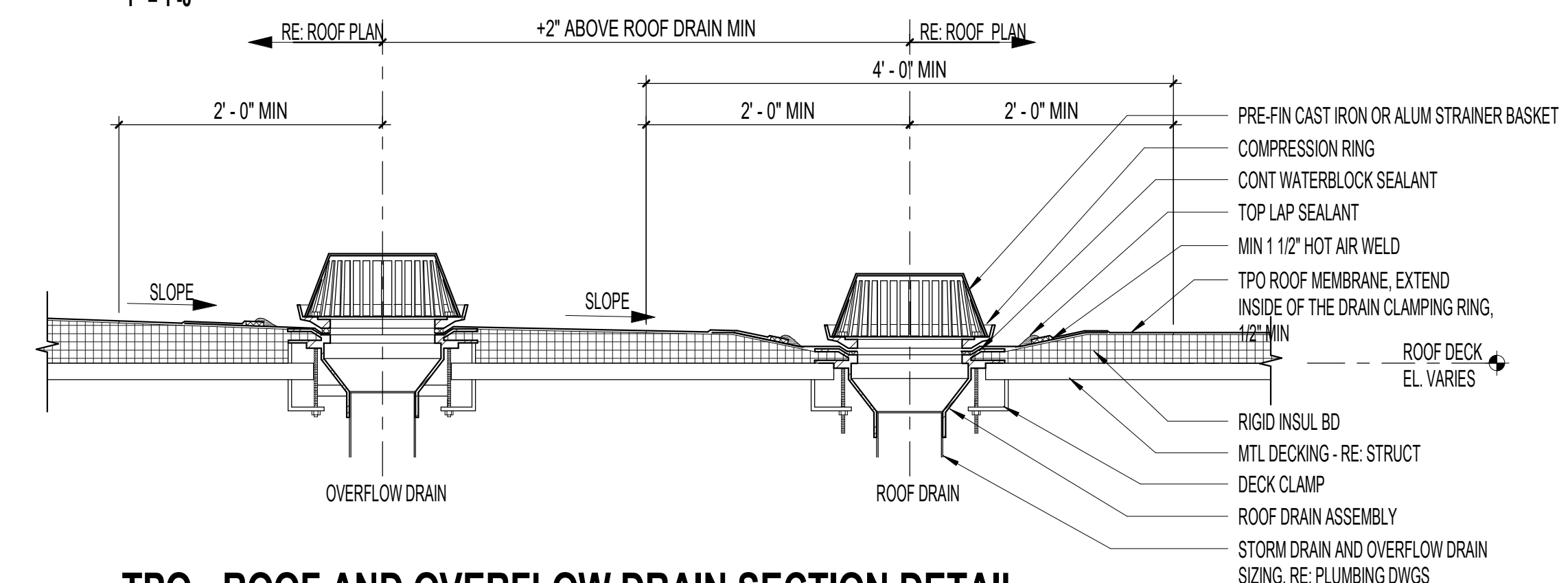
05 TPO - COUNTERFLASHING 1
6" = 1'-0"



03 TPO - ADHERED WALL FLASHING - OPTION 1
6" = 1'-0"



02 TPO - ROOF AND OVERFLOW DRAIN PLAN DETAIL
1" = 1'-0"



01 TPO - ROOF AND OVERFLOW DRAIN SECTION DETAIL
1" = 1'-0"

Revisions:

REV.	DATE	TITLE

Date: CONSTRUCTION DOCS 02-11-2022
Project No. 2942
Drawn By: _____
Checked By: _____
Sheet Title: ROOF DETAILS
Drawing No. _____

TYPICAL PARTITION NOTES

- NOT ALL PARTITIONS SHOWN ON THIS SCHEDULE ARE USED IN THE CURRENT ISSUE. REFER TO PLANS FOR SPECIFIC PARTITIONS USED.
- ALL PARTITION TYPES ARE DESIGNATED ON THE PLAN BY SYMBOL UNLESS NOTED OTHERWISE.
- REFER TO SPECIFICATIONS FOR FRAMING GUAAGES AND SPACING.
- ALL GYPSUM BOARD SHALL BE 5/8" TYPE "X" UNLESS NOTED OTHERWISE.
- THICKNESS OF FIRE-RATED AND NON-FIRE-RATED SOUND ATTENUATING BATT INSULATION SHALL MATCH THE THICKNESS OF THE FRAMING IN WHICH IT IS INSTALLED.
- PROVIDE ONE LAYER OF CEMENTITIOUS WALL BOARD AT PARTITIONS BEHIND PLUMBING FIXTURES. MOISTURE RESISTANT GYPSUM BOARD SHALL BE INSTALLED IN PARTITIONS PERPENDICULAR TO PLUMBING FIXTURE WALL WITHIN 2'-0" OF THE INTERSECTION.
- CERAMIC TILE SHALL BE INSTALLED ON 5/8" CEMENTITIOUS WALL BOARD. CEMENTITIOUS WALL BOARD SHALL BE PROVIDED IN LIEU OF THE OUTER LAYER OF GYPSUM BOARD IN NON-FIRE-RATED PARTITIONS. CEMENTITIOUS WALL BOARD SHALL BE PROVIDED OVER THE SCHEDULED PARTITION ASSEMBLY IF FIRE-RATED.
- ALL PARTITIONS EXTEND TO BOTTOM OF STRUCTURE UNLESS NOTED OTHERWISE.
- REFER TO SPECIFICATIONS FOR SEALANT TYPES AND USAGE LOCATIONS.
- ALL FRAMING IS 16" ON CENTER UNLESS NOTED OTHERWISE.
- REFER TO SECTION 078413-3.5 FOR PENETRATION FIRESTOPPING SCHEDULE.
- PROVIDE SMOKE AND FIRE DAMPER AT RATED AND SMOKE PARTITION AS REQUIRED.
- ALL FIRE-RATED AND SMOKE-RATED PARTITIONS SHALL BE IDENTIFIED AS SUCH WITH A LABEL AFFIXED 1'-0" ABOVE THE CEILING OR 10'-0" AFF.
- AT THE INTERSECTION OF PARTITIONS, THE HIGHEST RATED PARTITION SHALL BE CONTINUOUS.
- FIRE AND SMOKE RESISTANCE RATINGS ARE TO CONTINUE ABOVE ALL OPENINGS IN RATED PARTITIONS.
- FOR TYPICAL PARTITION CONDITIONS AND SECTIONS, REFER TO PARTITION TYPES SCHEDULE.

WALL TYPE DESIGNATIONS:
 XI - IMPACT GYPSUM BOARD
 XIS - WALL BUILT TO LIMIT THE PASSAGE OF SMOKE
 XIW - WOOD STUDS IN LIEU OF METAL

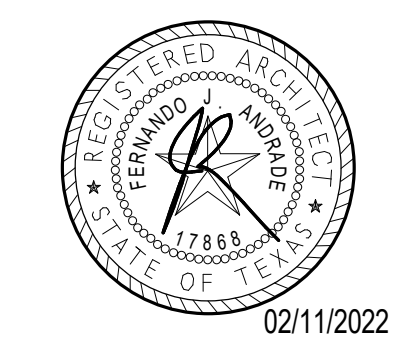
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Revisions:

REV.	DATE	TITLE

Date:
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 02-11-2022

Project No:
 2942

Drawn By:
 OV

Checked By:
 RG

Sheet Title:
 PARTITION TYPES

Drawing No.
A7.00

Wall Schedule					
Type Mark	Description	Width	Fire Rating	Comments	
B6S	6" CFMF PLATE W/ 3.5" STAGGERED CFMF STUDS & 2 LAYERS 5/8" GYP BOTH SIDES	6 1/2"		TO DECK	
B63	3.5" CFMF W/ 1 LAYER 5/8" GYP BOTH SIDES	4 7/8"	6" OVER CEILING		
B66	6" CFMF W/ 1 LAYER 5/8" GYP BD BOTH SIDES	7 1/4"	6" OVER CEILING		
BR-1E	BRICK VENEER	6 1/2"			
FRP-1	FIBERGLASS REINFORCED PANELS	1/8"			
J3	3.5" CFMF W/ 1 LAYER 5/8" GYP BOTH SIDES	4 7/8"			
J6	6" CFMF W/ 1 LAYER 5/8" GYP BD BOTH SIDES	7 1/4"			
J6	6" CFMF W/ 1 LAYER 5/8" GYP BD BOTH SIDES	7 1/4"			
N3	3.5" CFMF W/ 1 LAYER 5/8" GYP BD.	4 1/4"			
N3	3.5" CFMF W/ 1 LAYER 5/8" GYP BD.	4 1/4"			
N6	6" CFMF W/ 1 LAYER - 5.8" GYP BD. SHEATHING ONE SIDE	6 5/8"		TO DECK	
N6	6" CFMF W/ 1 LAYER - 5.8" GYP BD. SHEATHING ONE SIDE	6 5/8"			
N6	6" CFMF W/ 1 LAYER - 5.8" GYP BD. SHEATHING ONE SIDE	6 5/8"			
ST-1	STONE VENEER	6 1/2"			
X8	8"X16"X8" CMU	7 5/8"	2HR.		
X8	8"X16"X8" CMU	7 5/8"	2HR.		

CMU WITH HORIZ REINF AT 16" OC AND VERT REINF AS INDICATED ON STRUCTURAL DRAWINGS FROM FLOOR LINE TO UNDERSIDE OF STRUCT ABOVE

DEFLECTION L/240 AT 5 PSF
 3.5" STUD, 20 GA, 16" OC
 6" STUD, 20 GA, 16" OC
 1 LAYER 5/8" GYPSUM WALL BOARD EA. SIDE
 SOUND ATTENUATION BATT INSULATION

INTERIOR PARTITION

FIRE RATING: NON RATED
 STC: 30

X8-E — 8" CMU @ EXTERIOR
X8 — 8" CMU

DEFLECTION L/240 AT 5 PSF
 3.5" STUD, 20 GA, 16" OC
 6" STUD, 20 GA, 16" OC
 1 LAYER 5/8" GYPSUM WALL BOARD EA. SIDE
 SOUND ATTENUATION BATT INSULATION

INTERIOR PARTITION

FIRE RATING: NON RATED
 STC: 46

J3 — 3.5" MTL STUDS
J6 — 6" MTL STUDS

DEFLECTION L/240 AT 5 PSF
 3.5" STUD, 20 GA, 16" OC
 6" STUD, 20 GA, 16" OC
 1 LAYER 5/8" GYPSUM WALL BOARD EA. SIDE
 SOUND ATTENUATION BATT INSULATION

INTERIOR WALL

FIRE RATING: NON RATED
 STC: 20

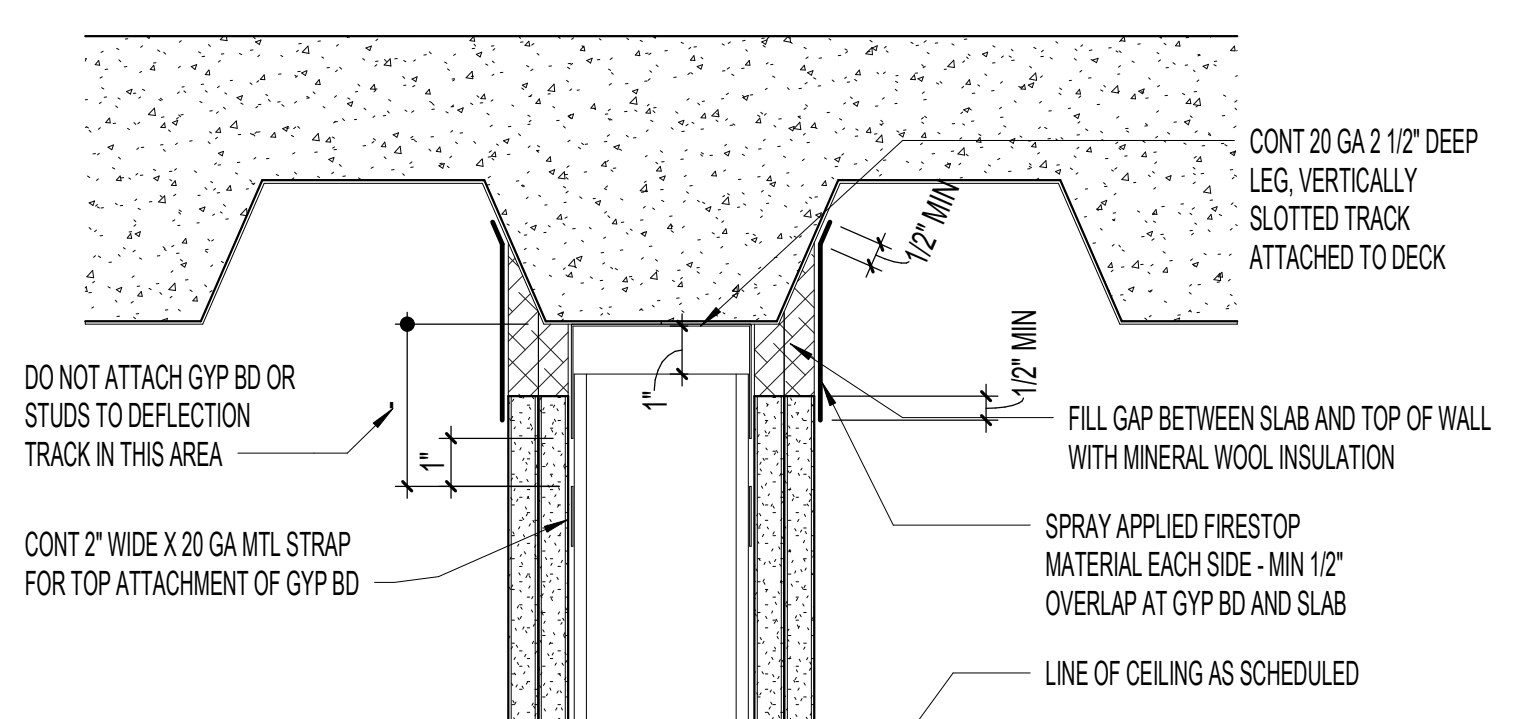
B63 — 3.5" MTL STUDS (ONE SIDE WET)
B66 — 6" MTL STUDS (ONE SIDE WET)

DEFLECTION L/240 AT 5 PSF
 3.5" STUD, 25 GA, 24" OC
 6" STUD, 25 GA, 24" OC
 2 LAYERS 5/8" GYPSUM WALL BOARD EA. SIDE
 FR SOUND ATTENUATION BATT INSULATION

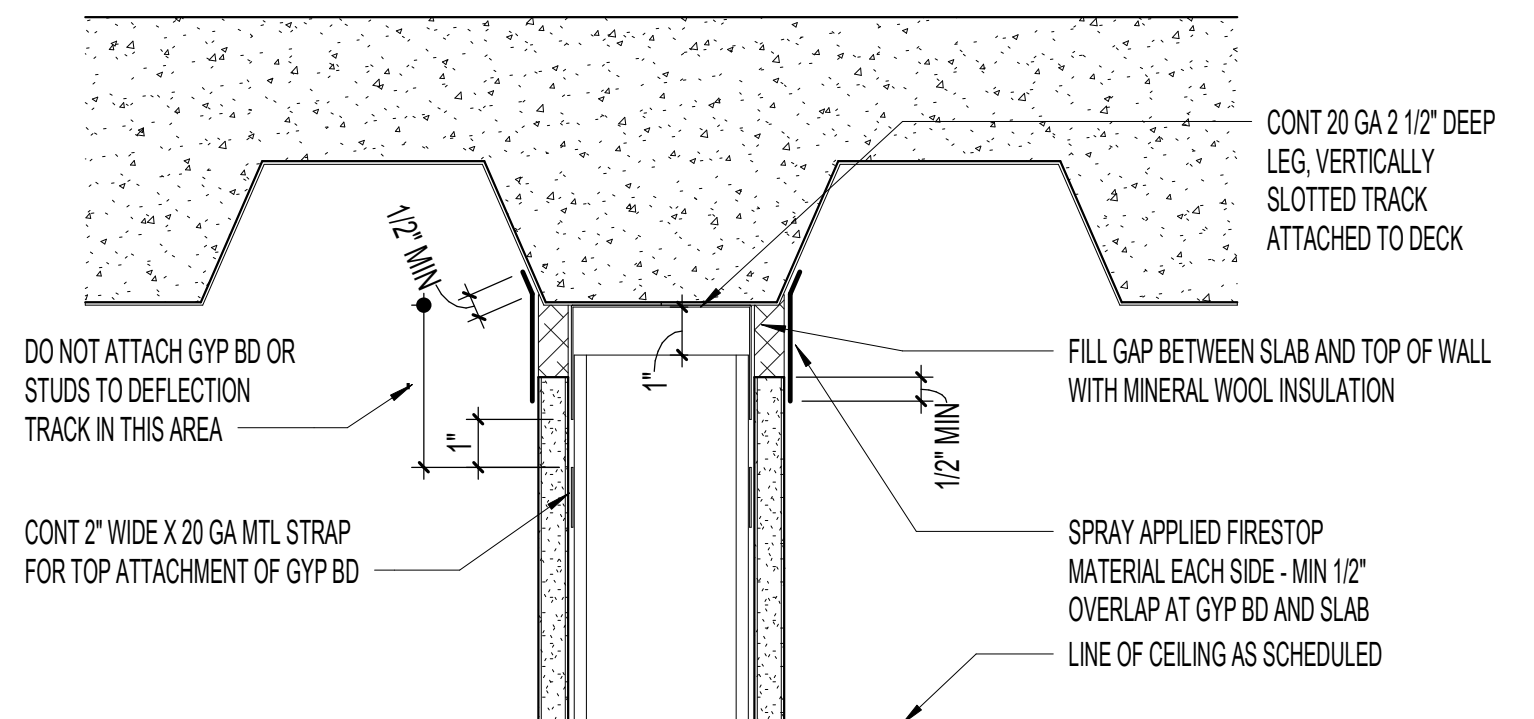
INTERIOR WALL

FIRE RATING: NON RATED
 STC: 52

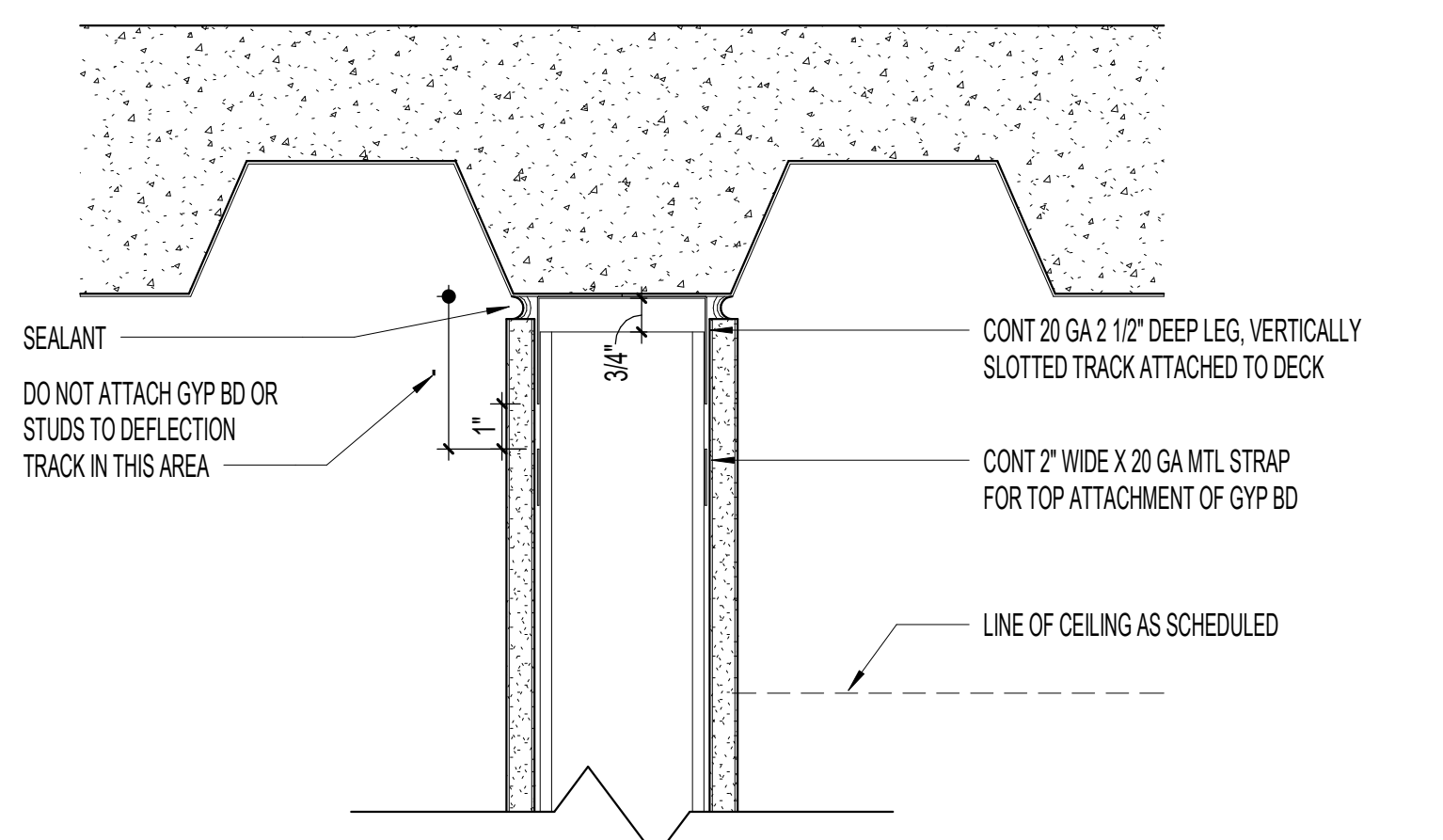
B6S — 6" WIDE BASE PLATE W/ 3.5" MTL STUDS



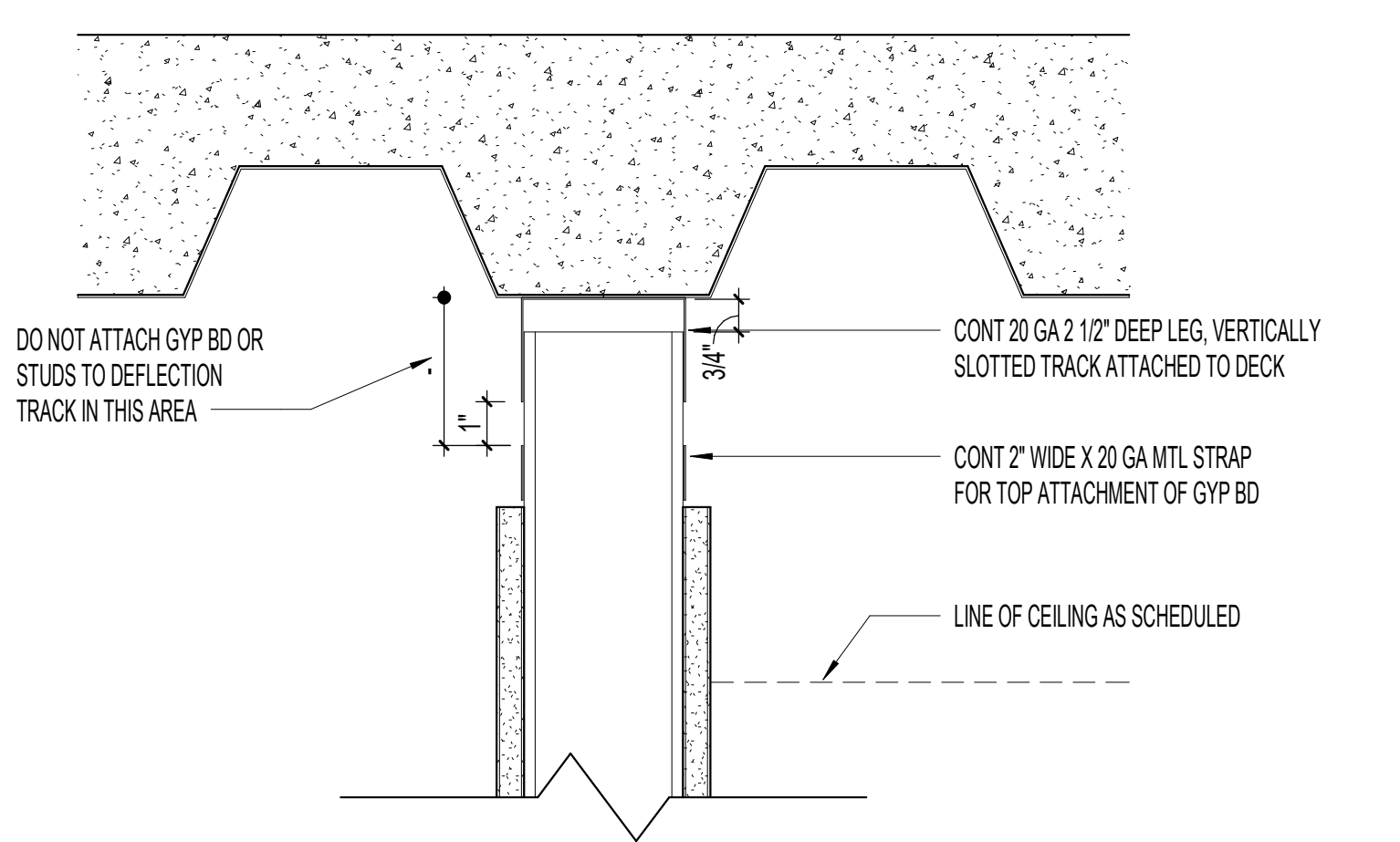
2-HR FIRE RESISTANT AND 2-HR FIRE RESISTANT SMOKE BARRIER
 UL HW-0-0107



1-HR FIRE RESISTANT AND 1-HR FIRE RESISTANT SMOKE BARRIER
 UL HW-0-0107

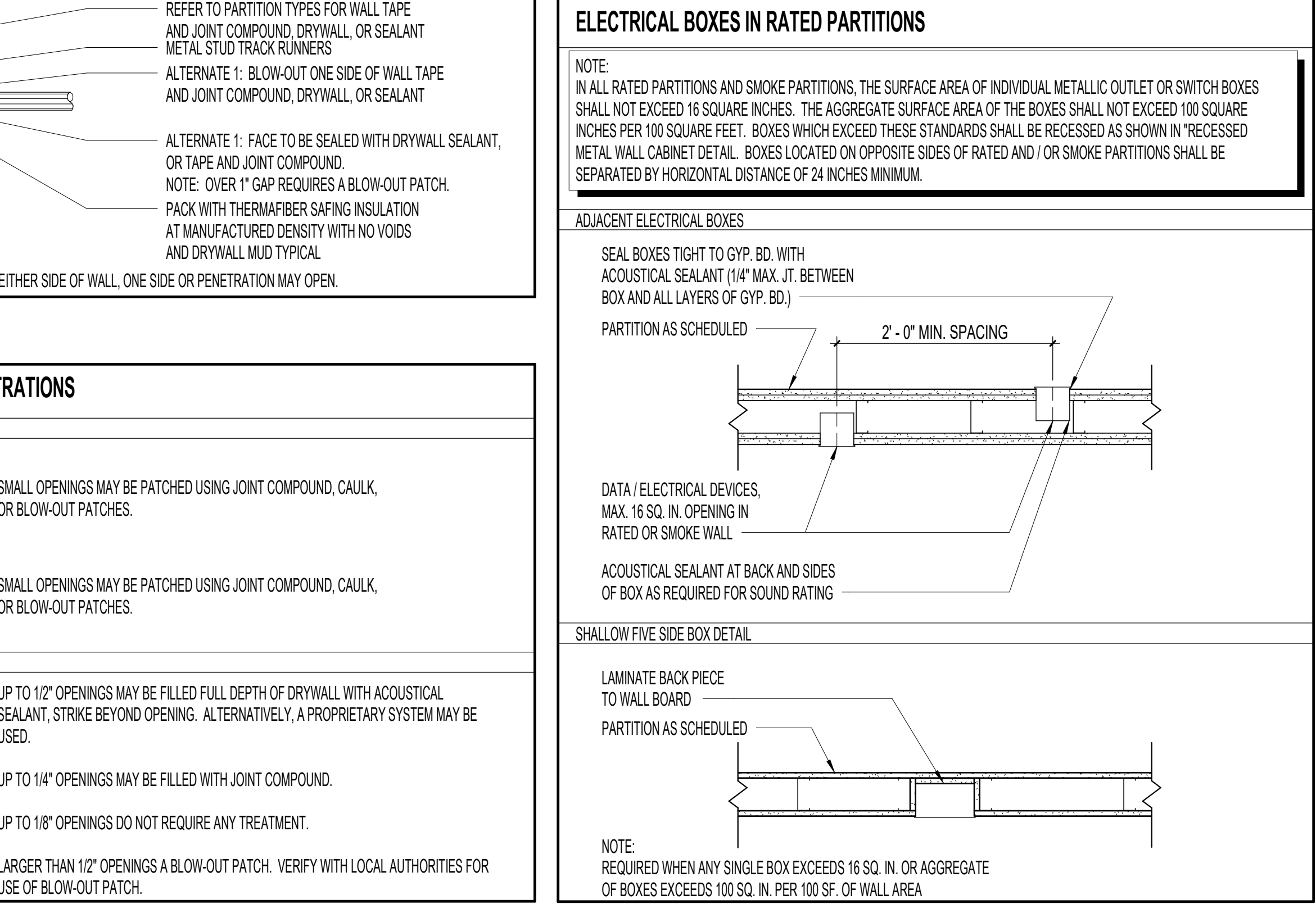
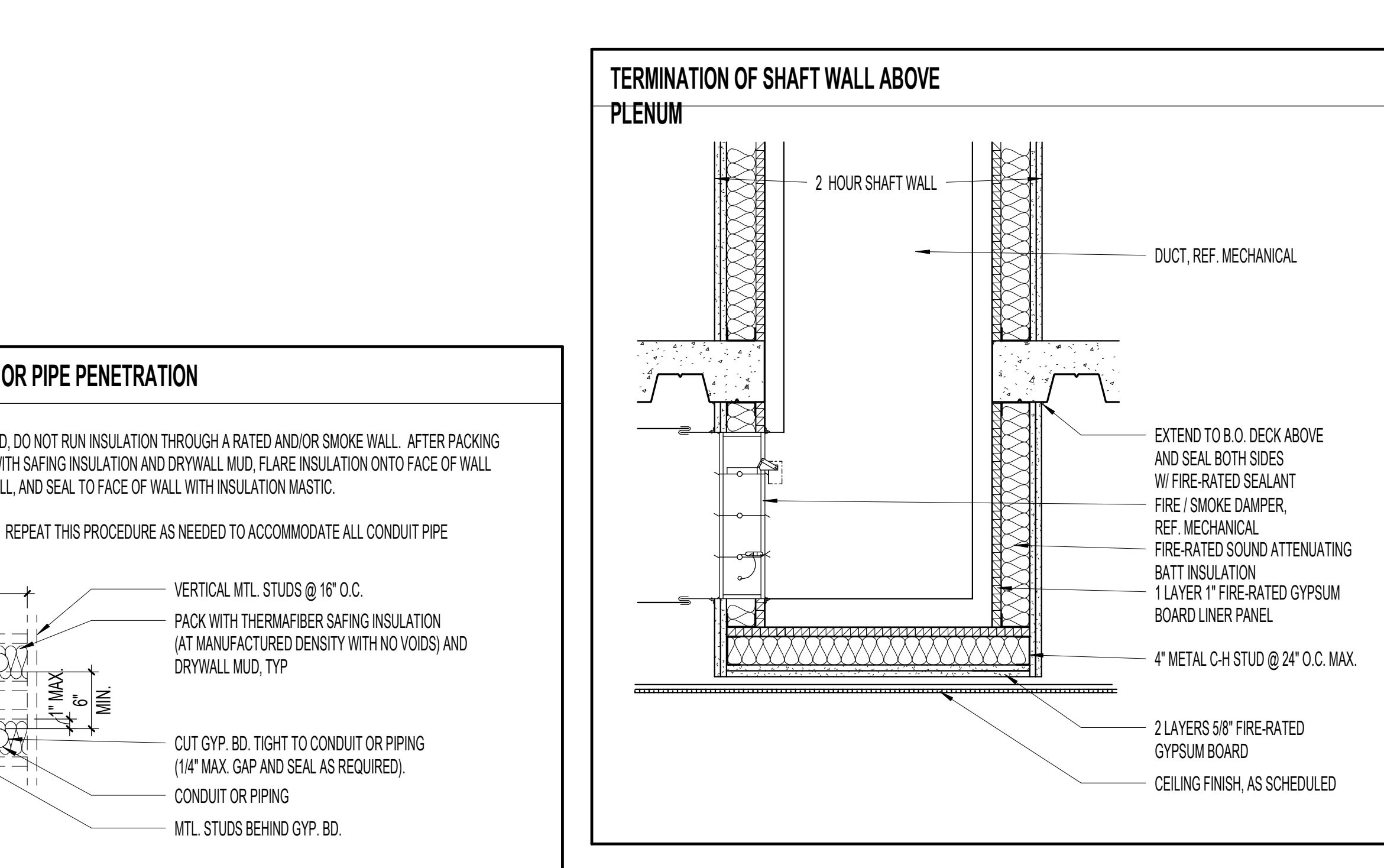
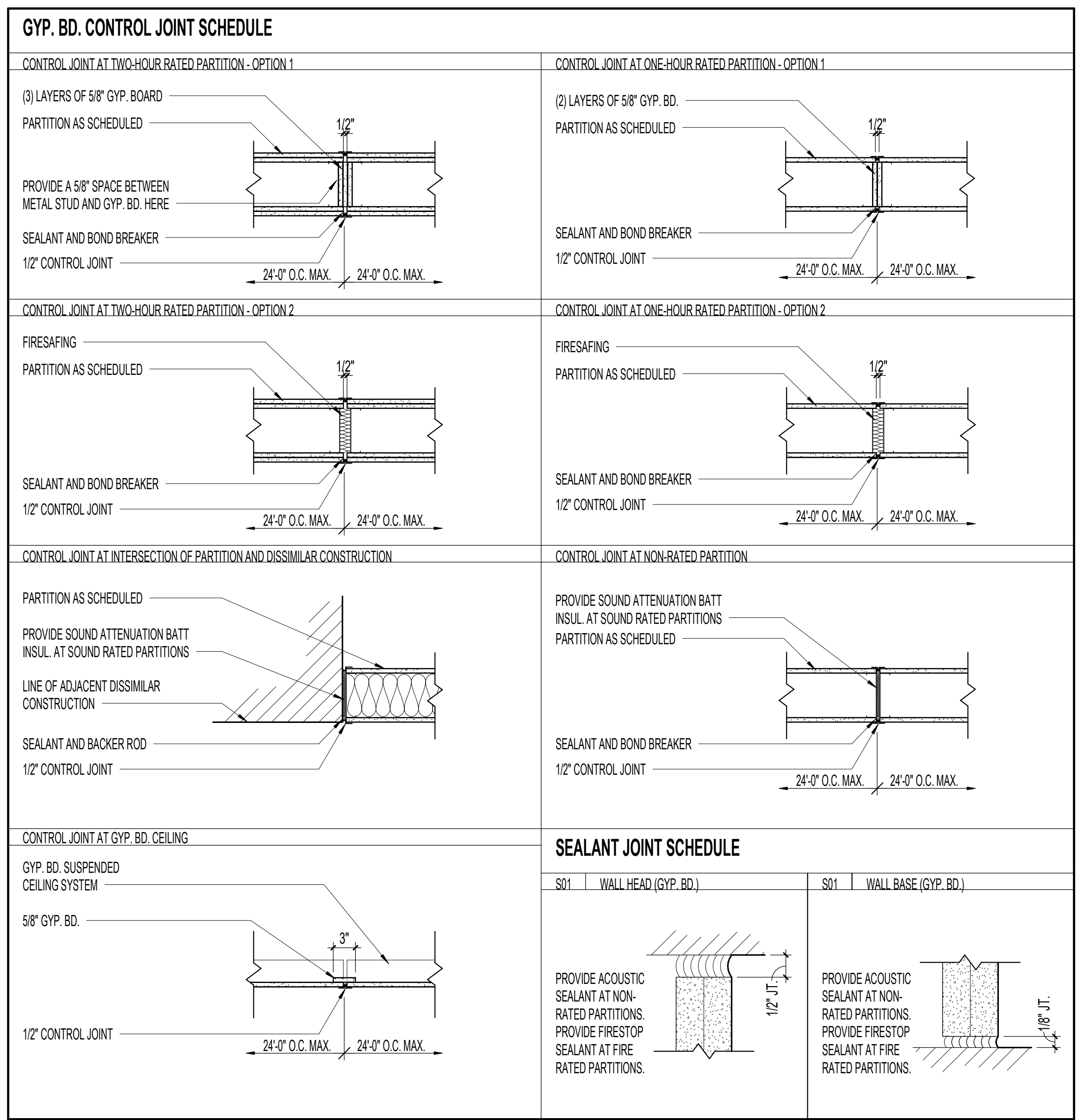
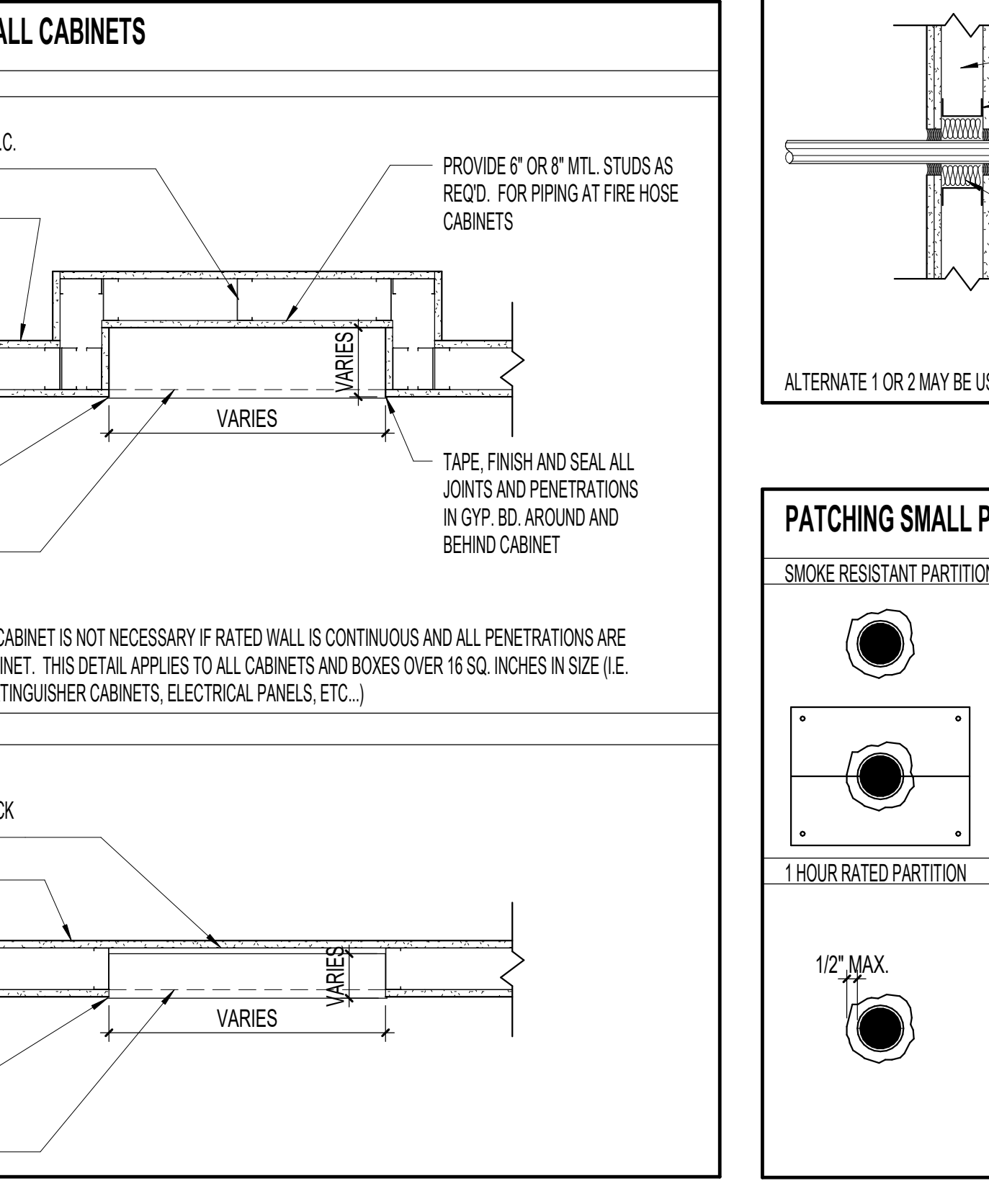
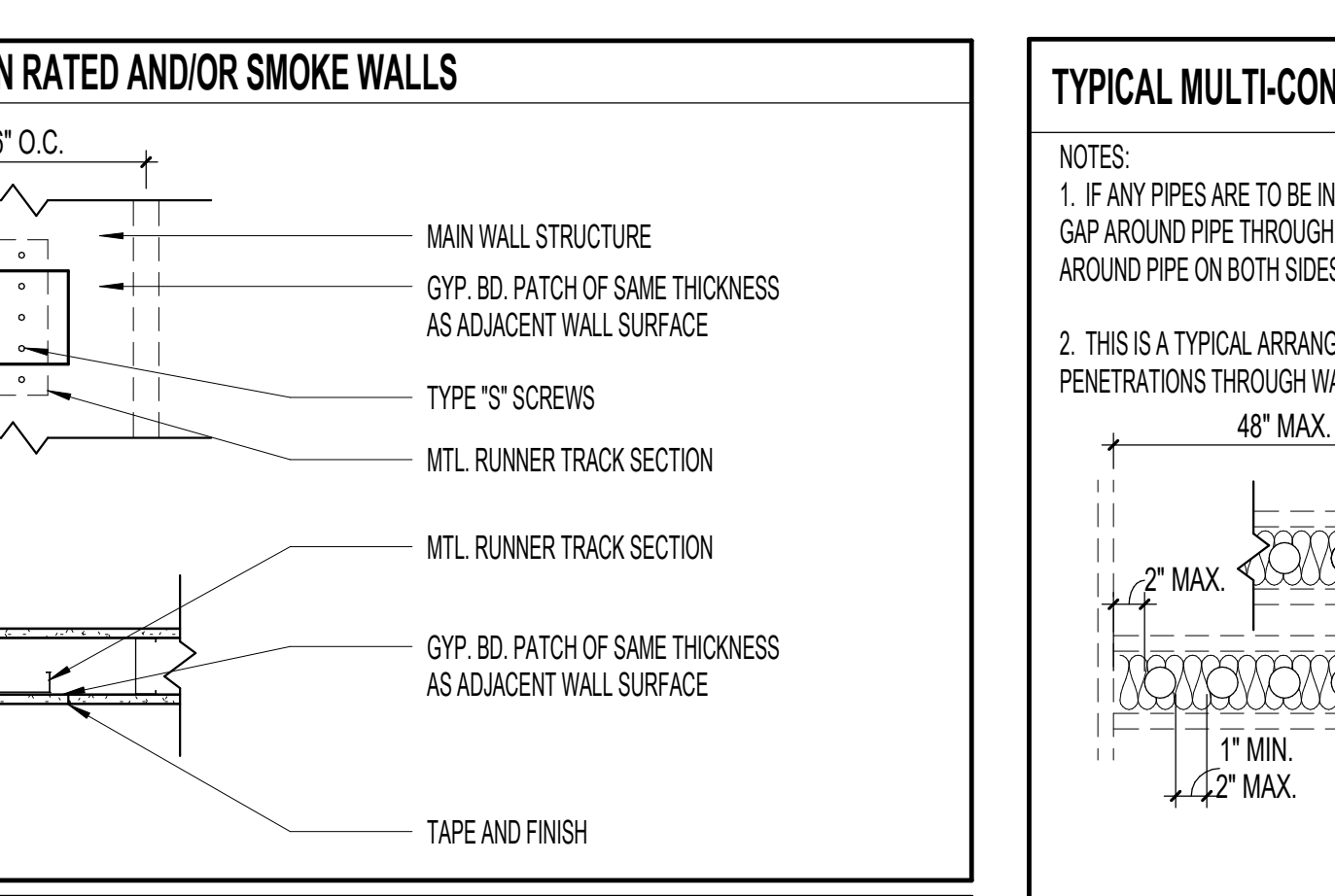
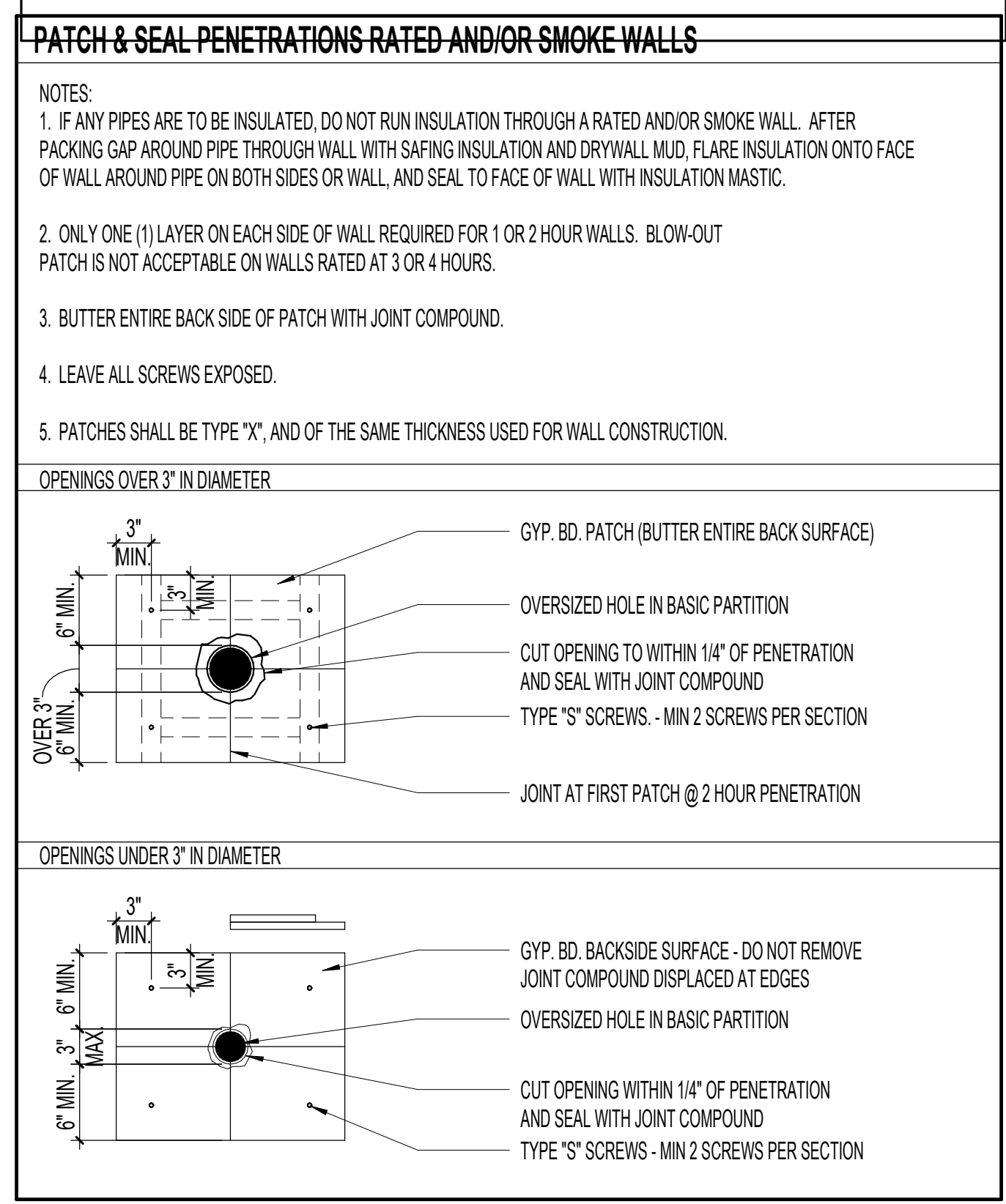
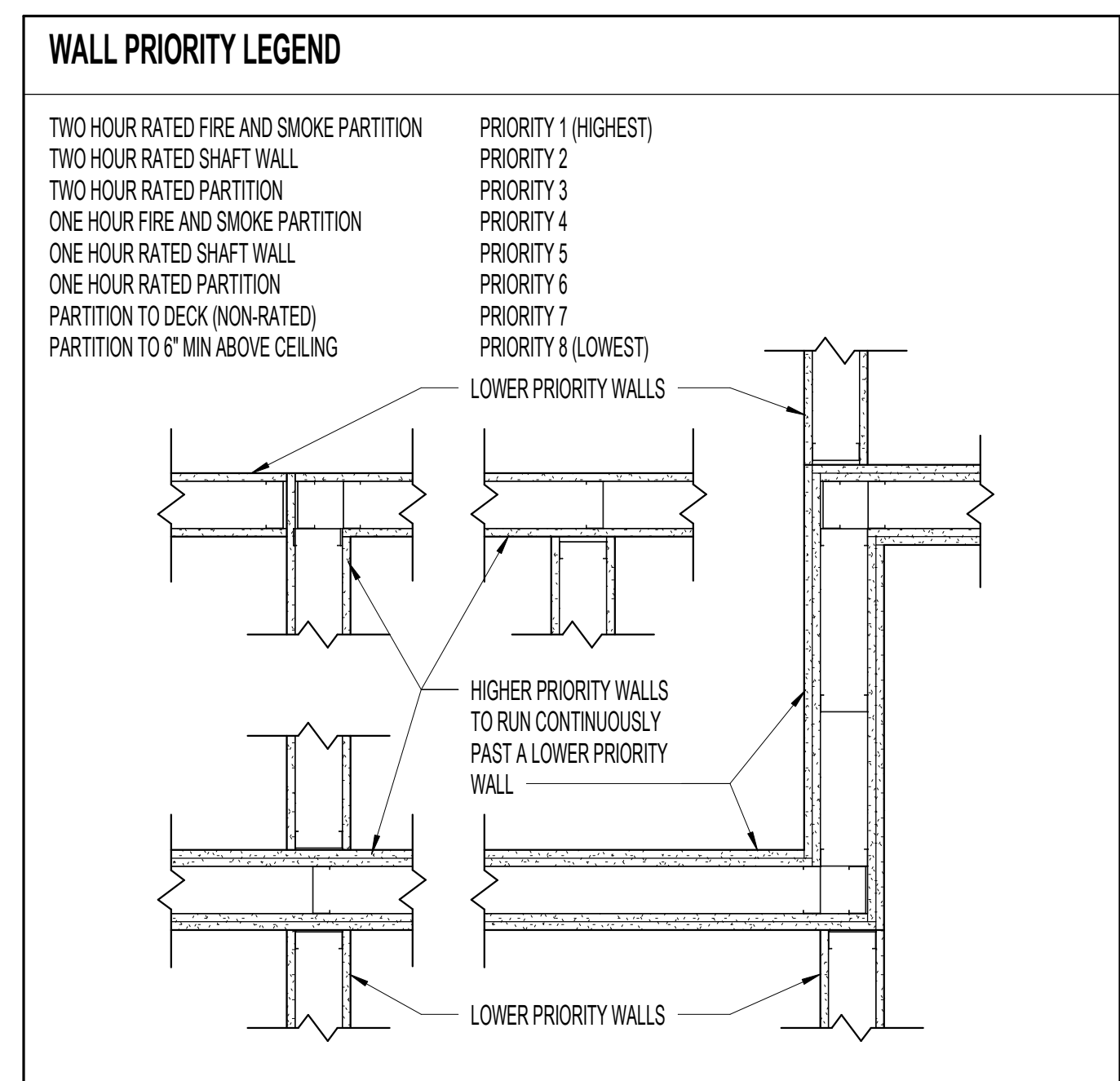
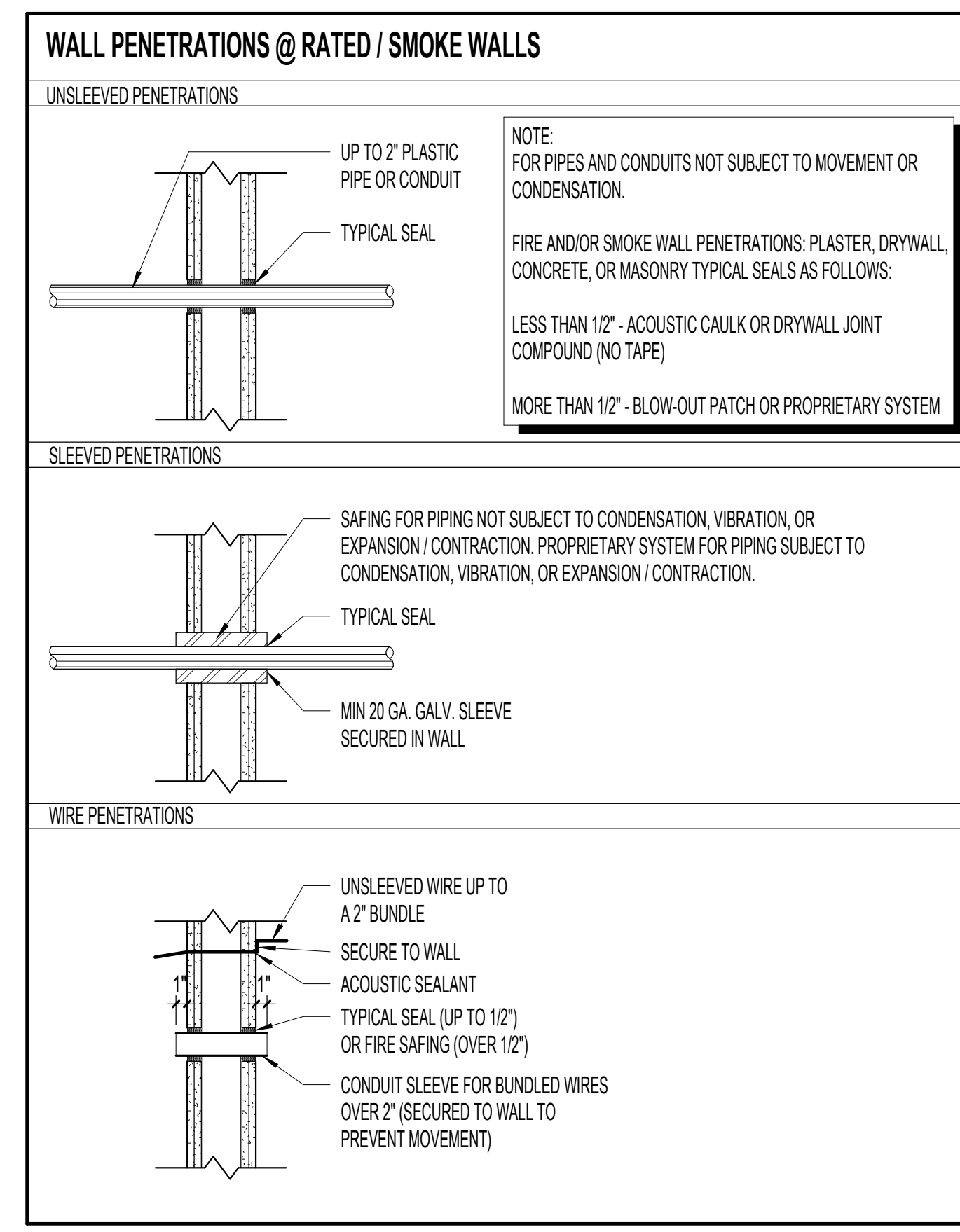


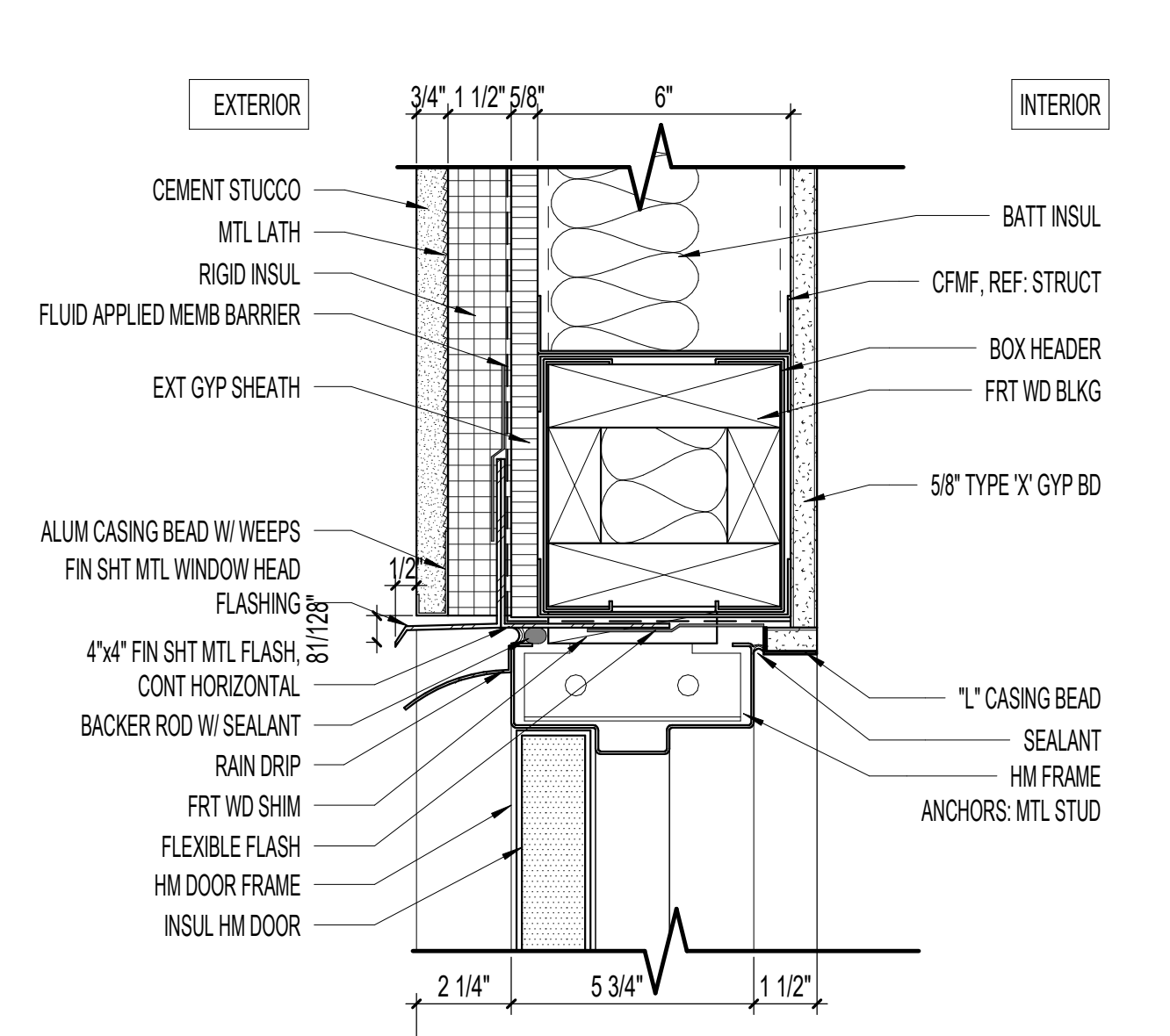
NON-RATED OR SMOKE RESISTANT



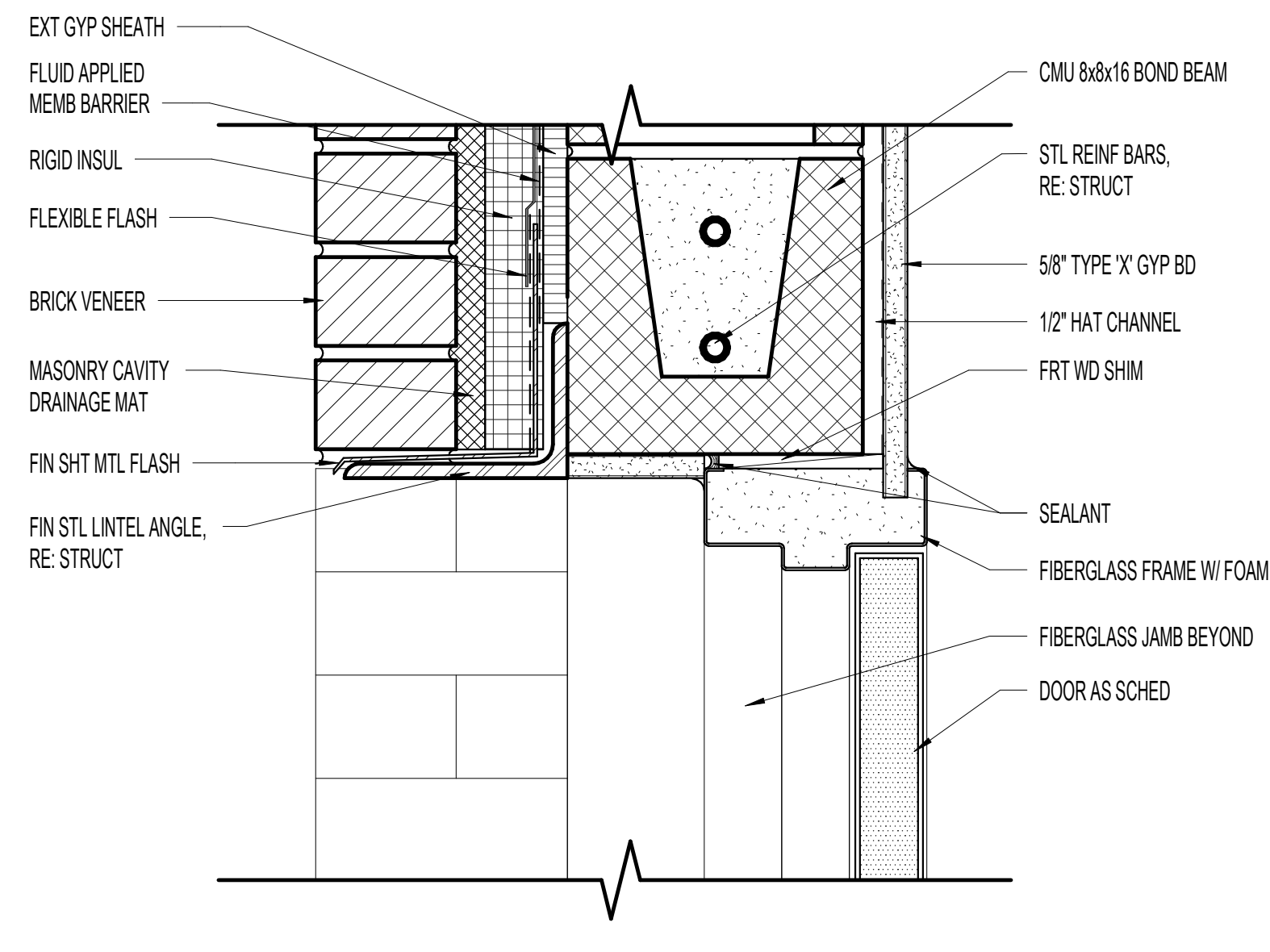
NON-RATED

1 PARTITION HEAD DETAILS - STEEL STUDS
 3" = 1'-0"

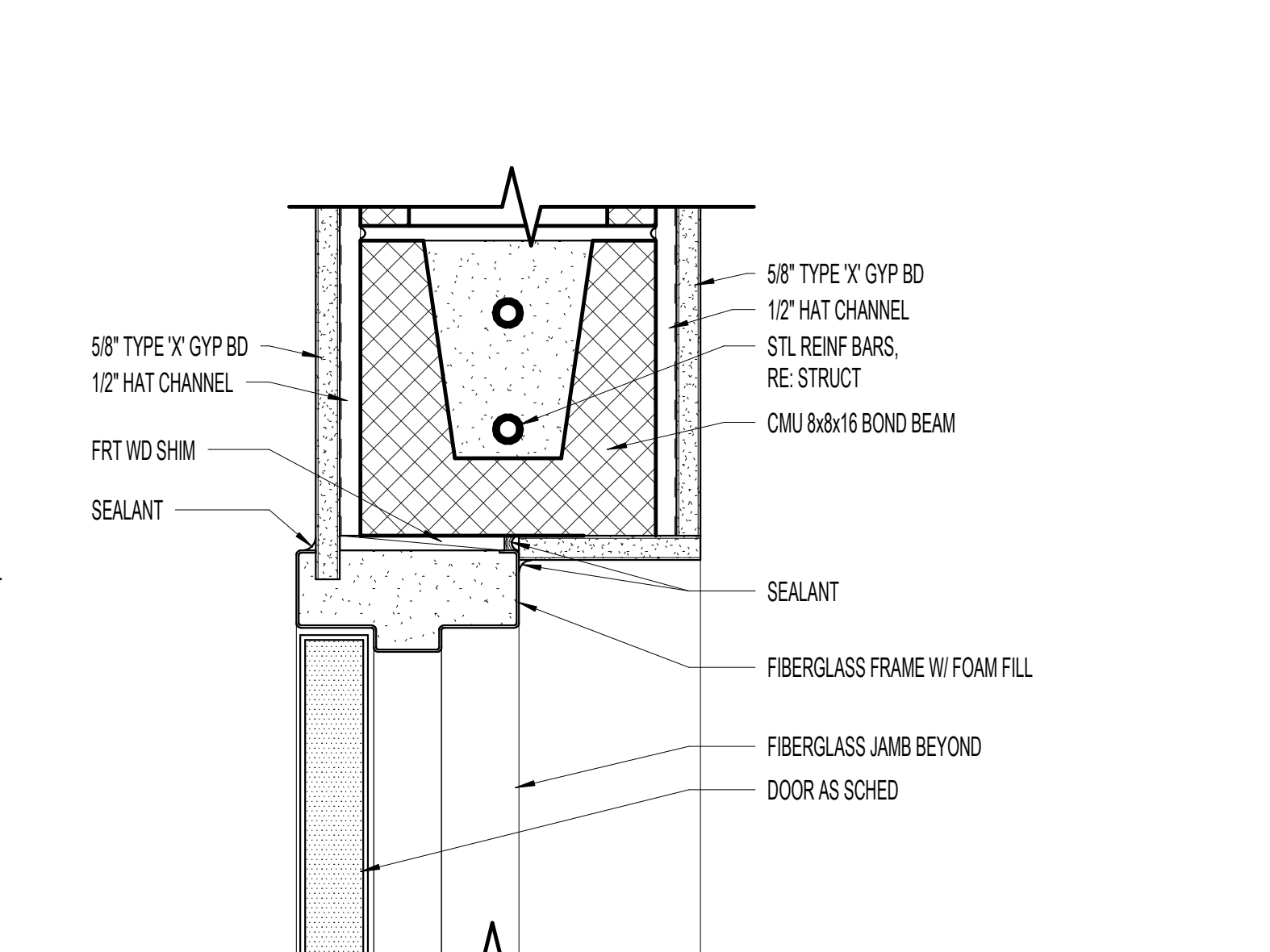




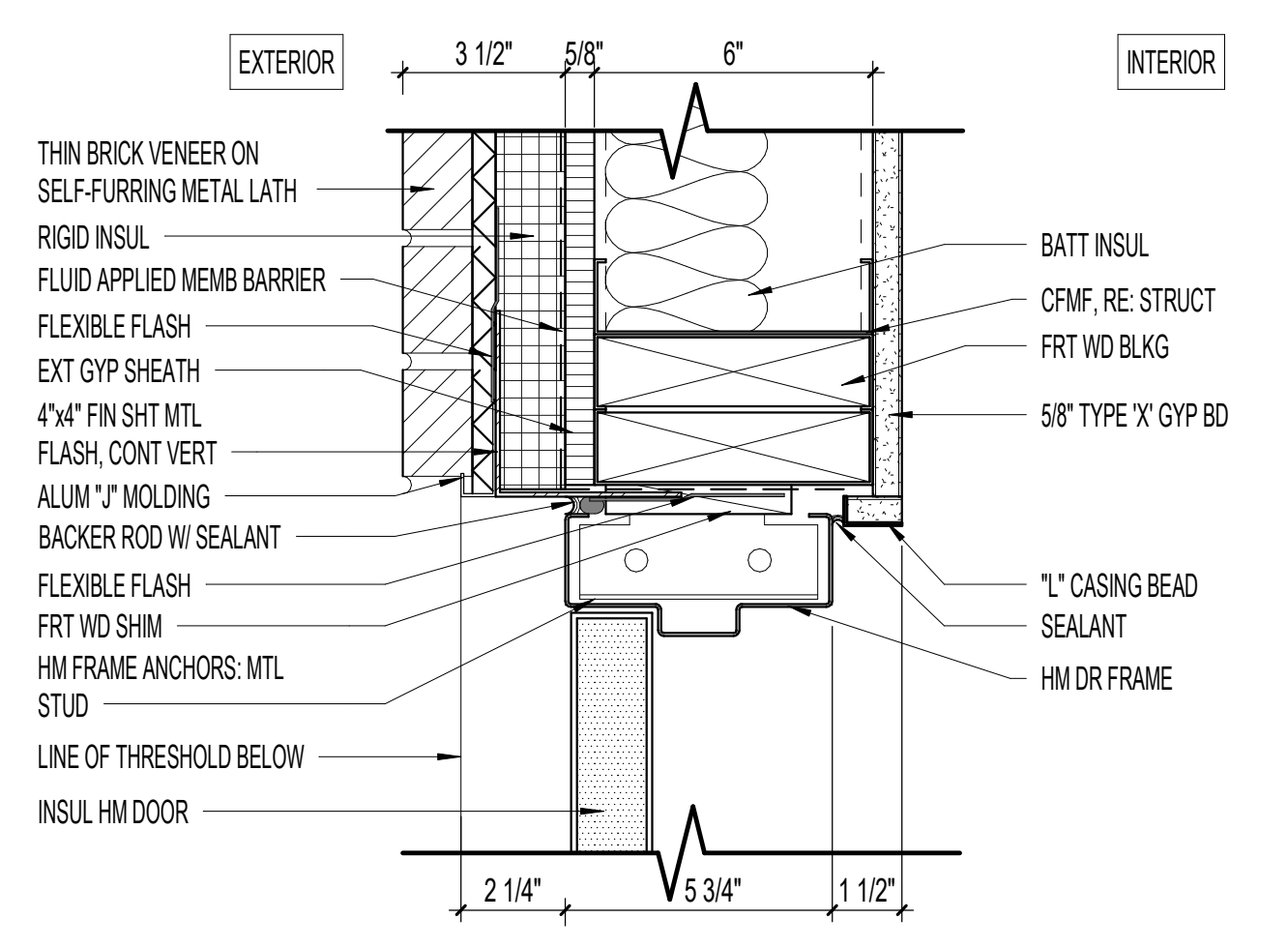
18 EXT - HM DR HEAD @ THIN BRICK
3" = 1'-0"



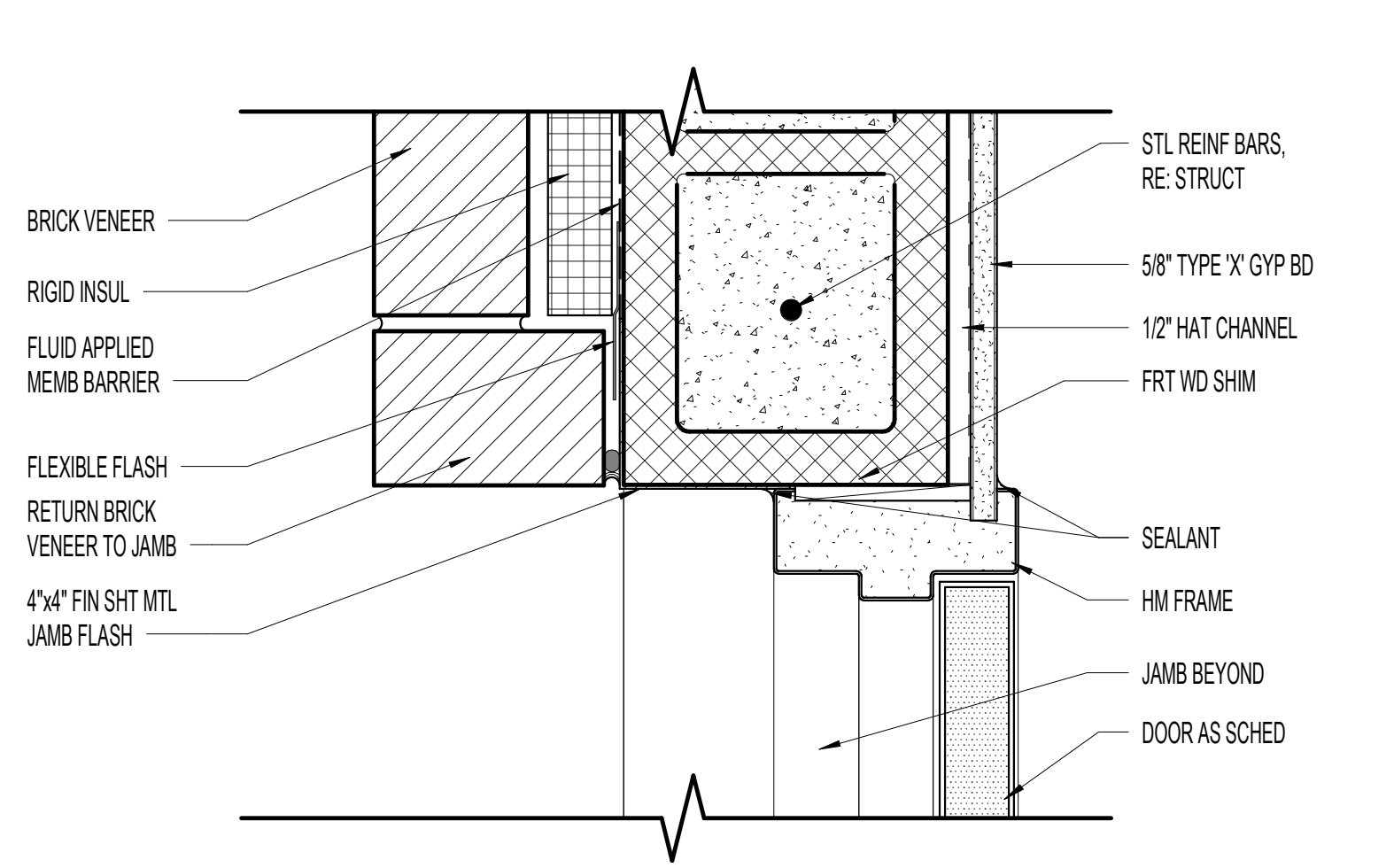
13 HM DR HEAD @ BRICK
3" = 1'-0"



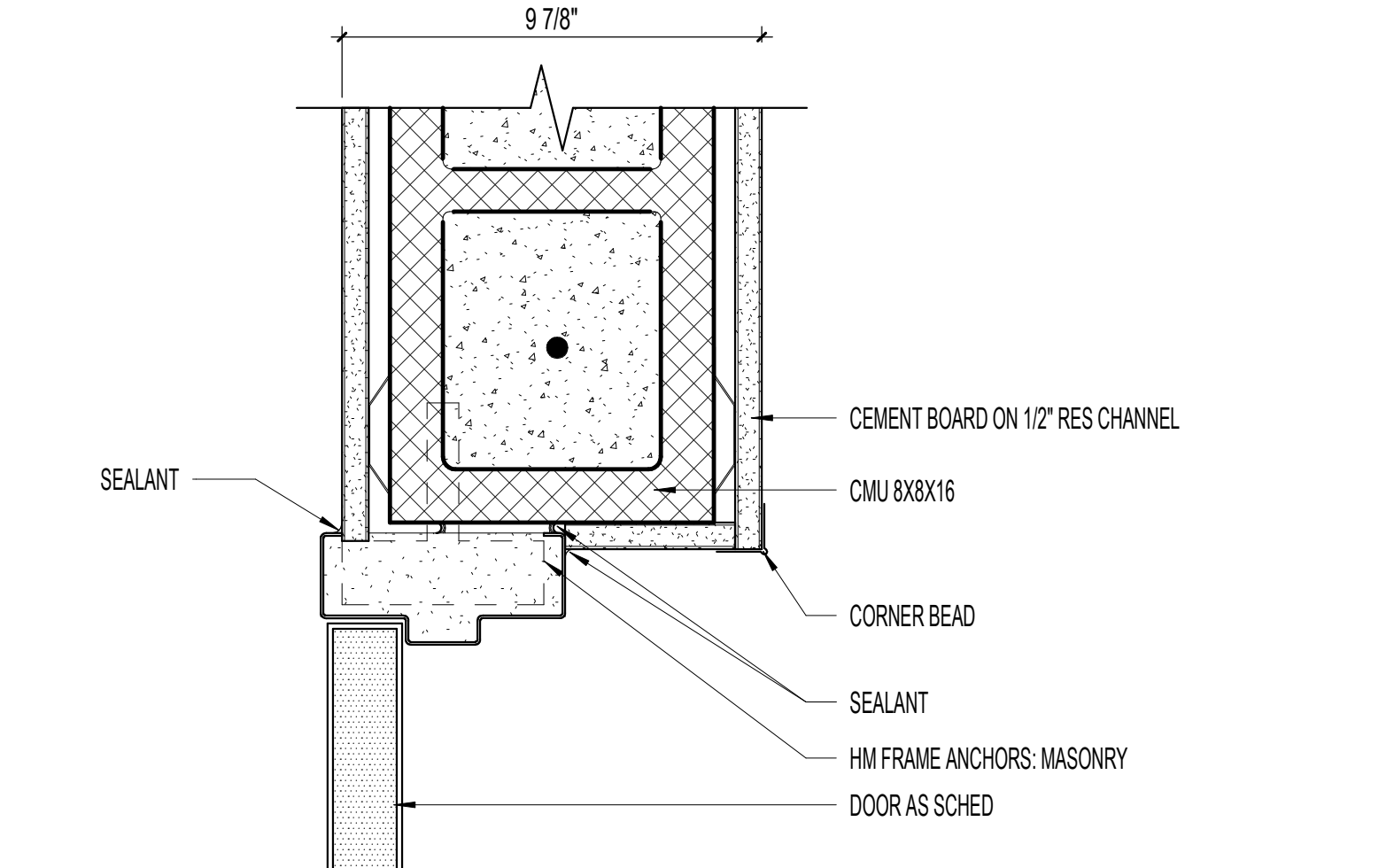
12 INT - FIBERGLASS DR HEAD (2\") @ CMU/ GYP BD
3" = 1'-0"



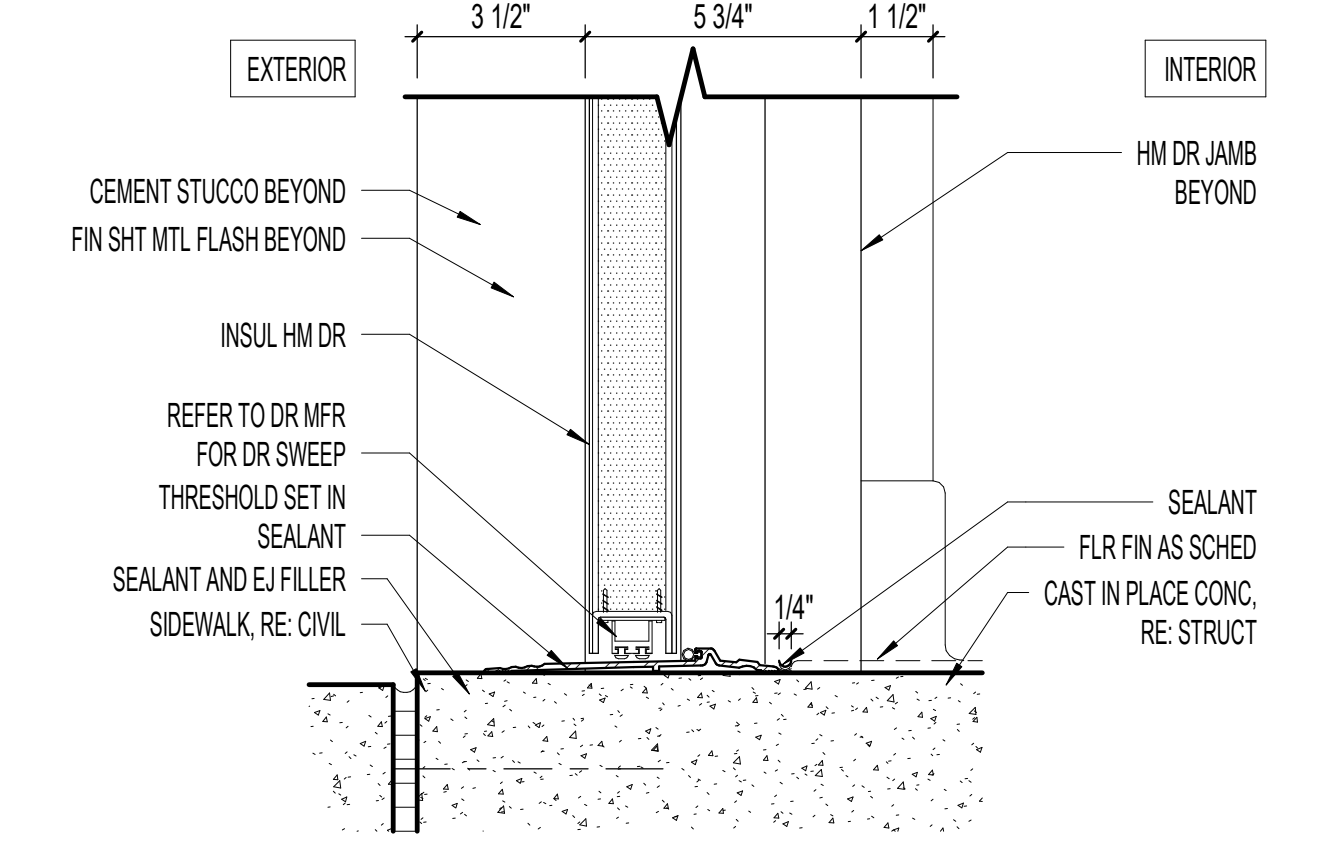
17 EXT - HM DR JAMB @ THIN BRICK
3" = 1'-0"



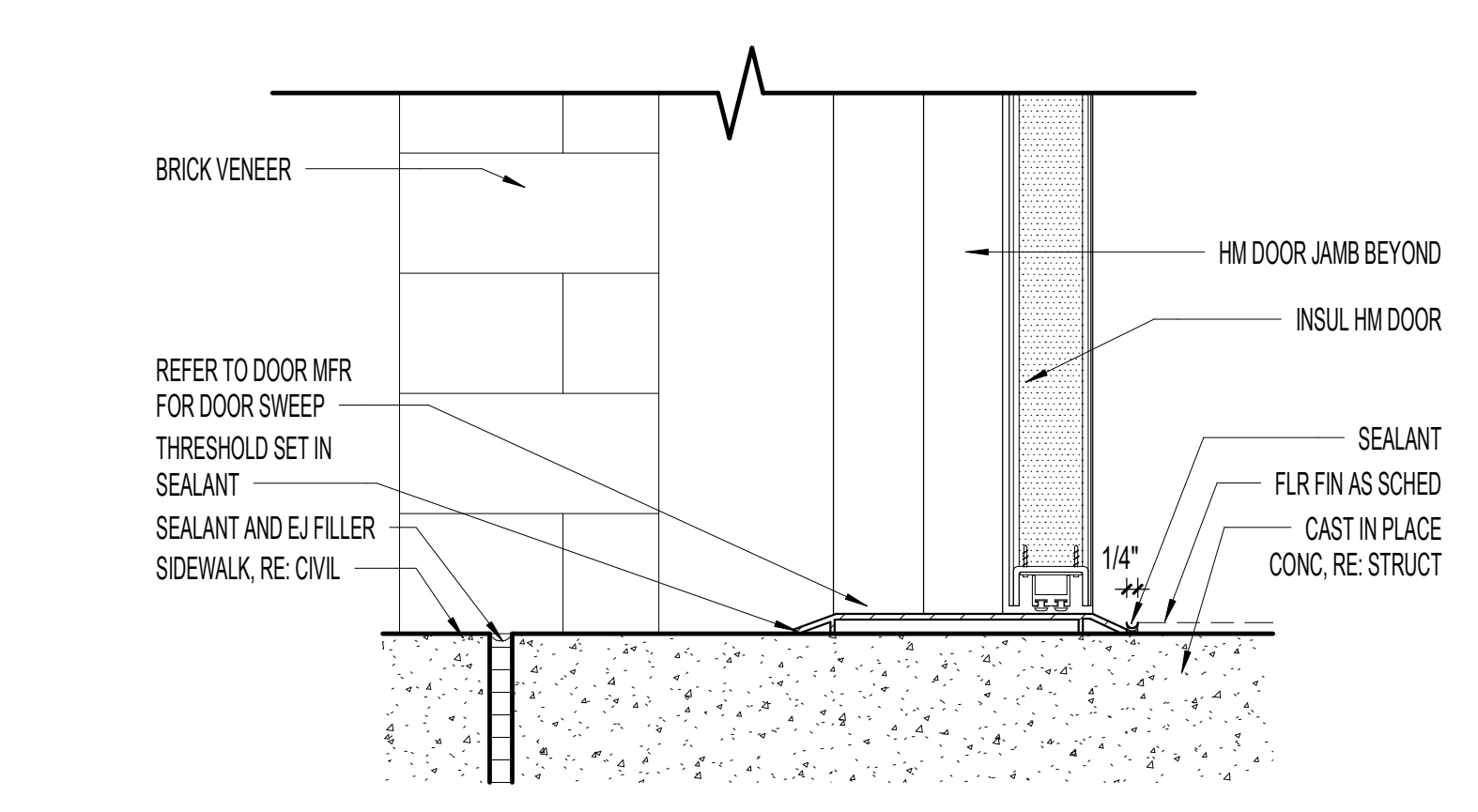
14 HM DR JAMB @ BRICK
3" = 1'-0"



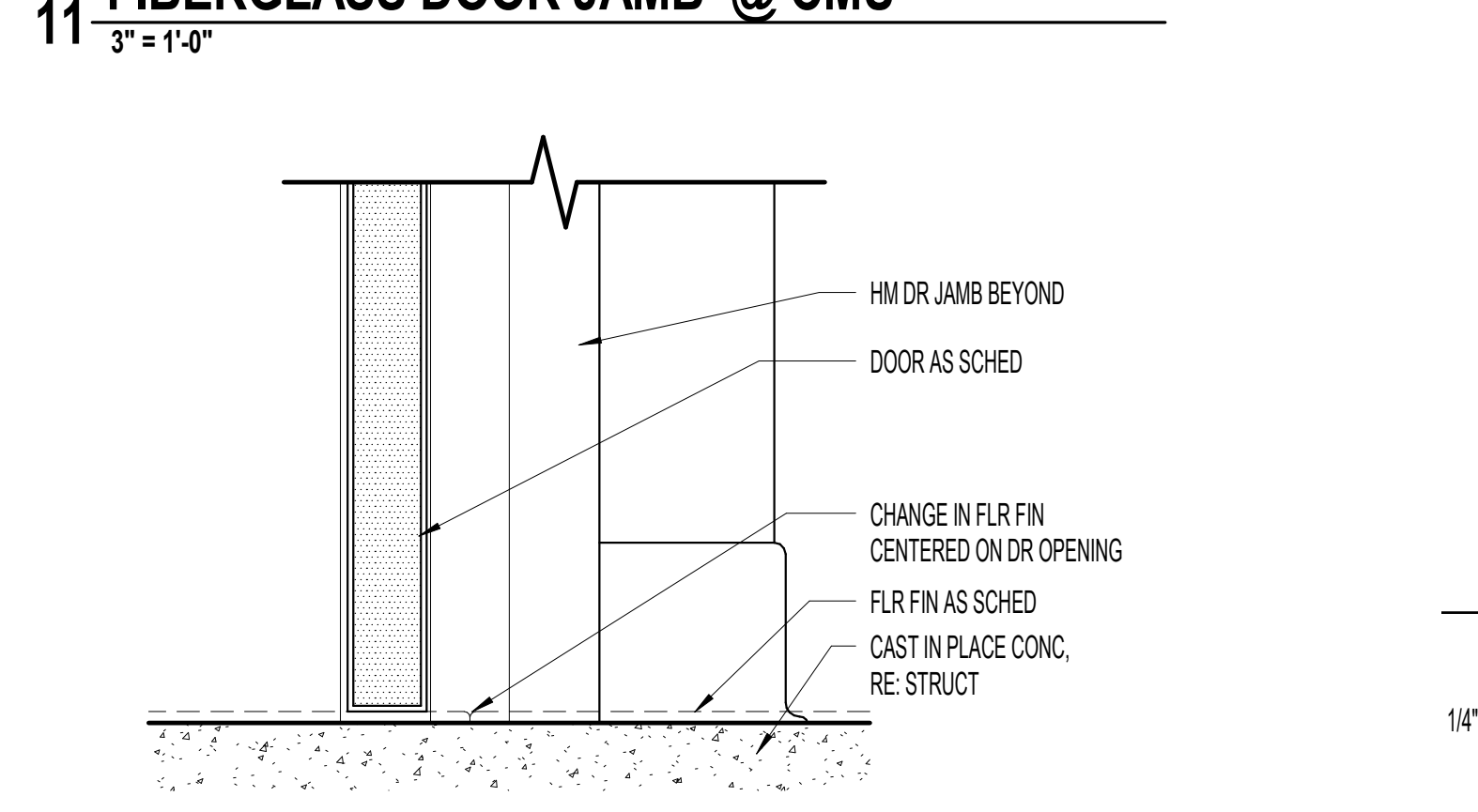
11 FIBERGLASS DR JAMB @ CMU
3" = 1'-0"



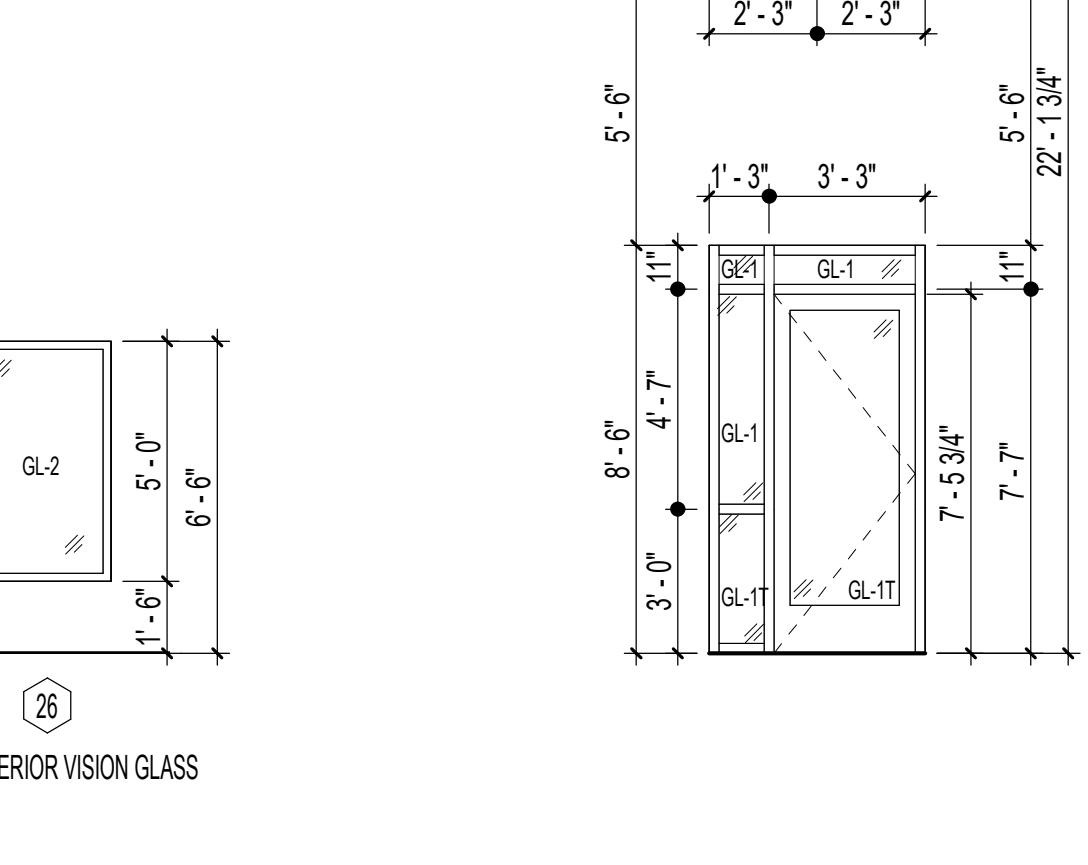
16 EXT - HM DR THRESHOLD @ THIN BRICK
3" = 1'-0"



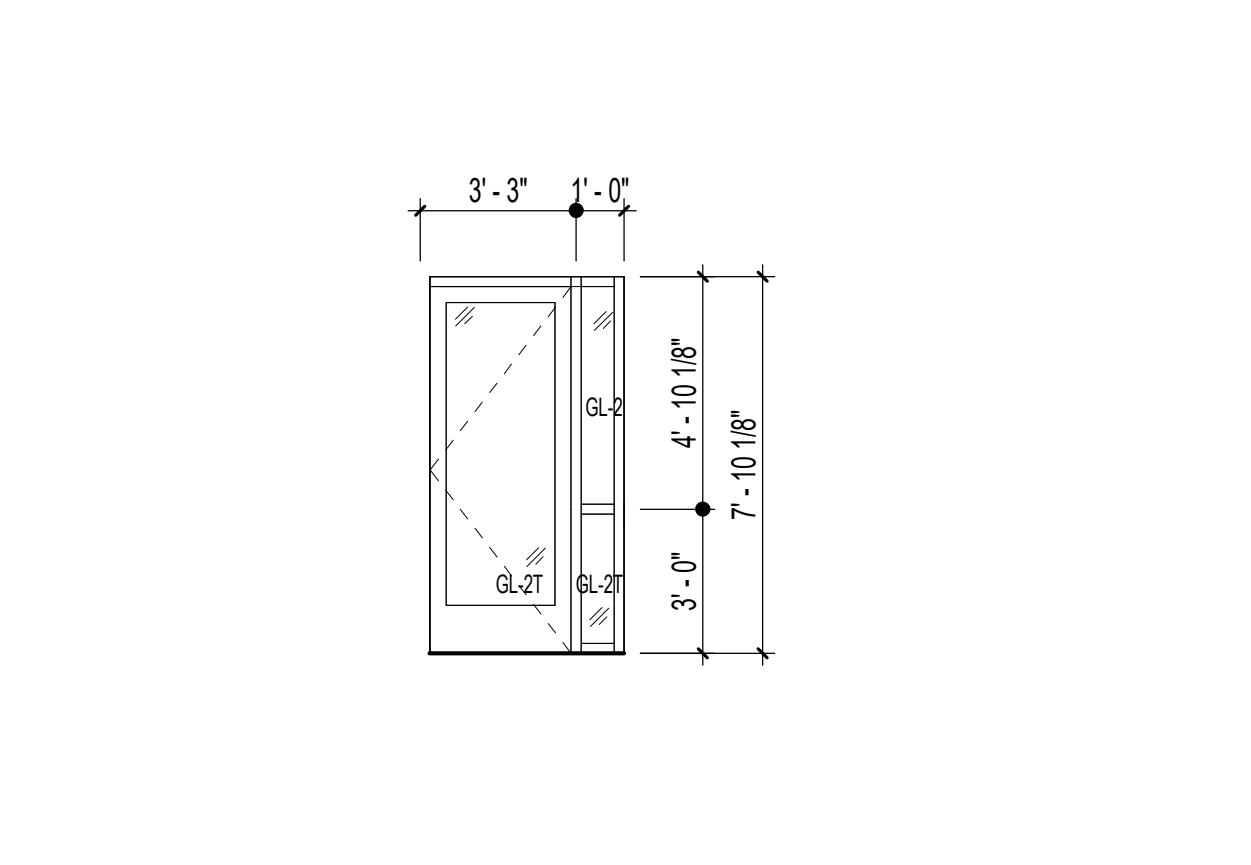
15 INT - FIBERGLASS DR THRESHOLD @ BRICK
3" = 1'-0"



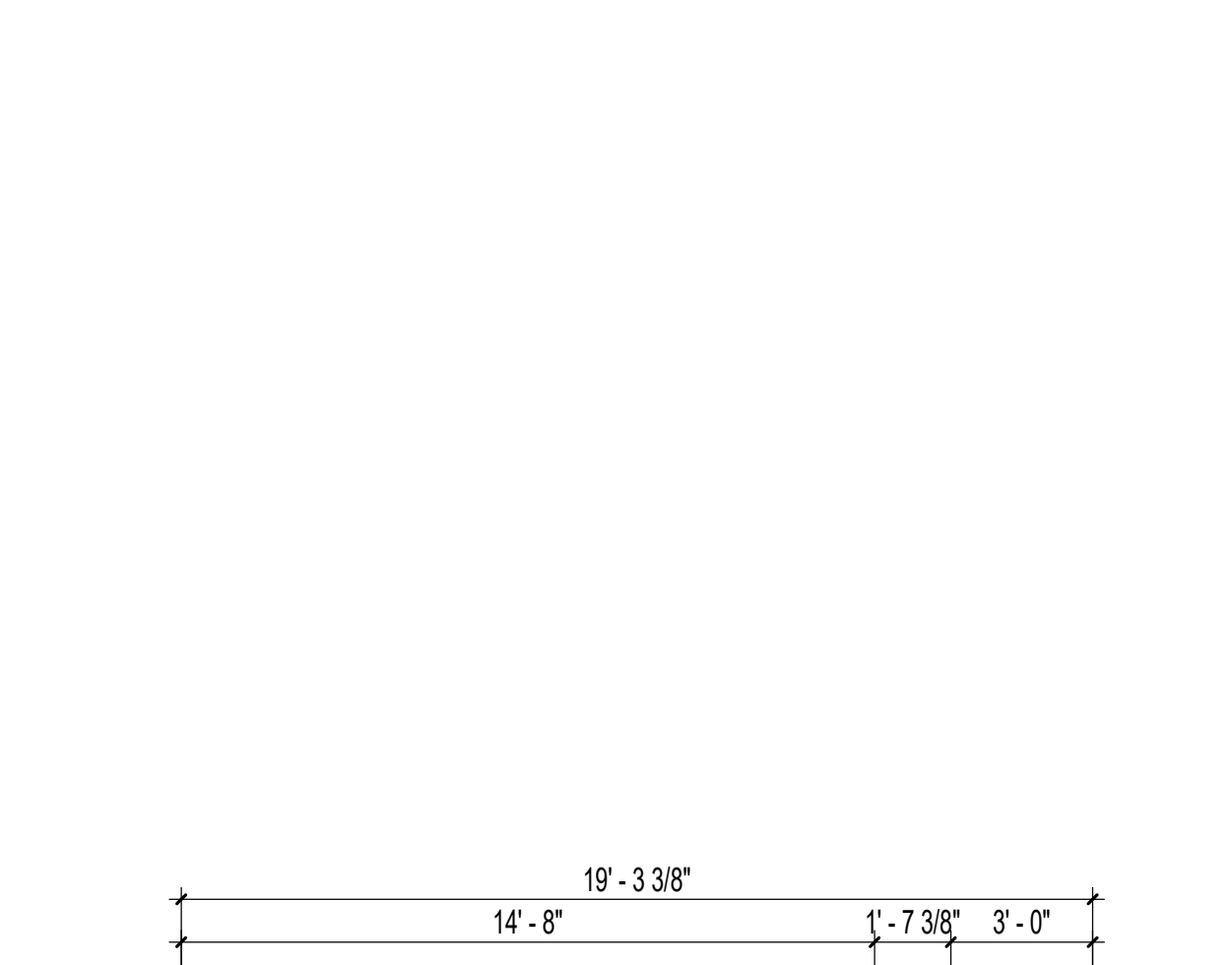
10 INT - FIBERGLASS DR THRESHOLD
3" = 1'-0"



9 INTERIOR WINDOW TYPES
1/4\"/>

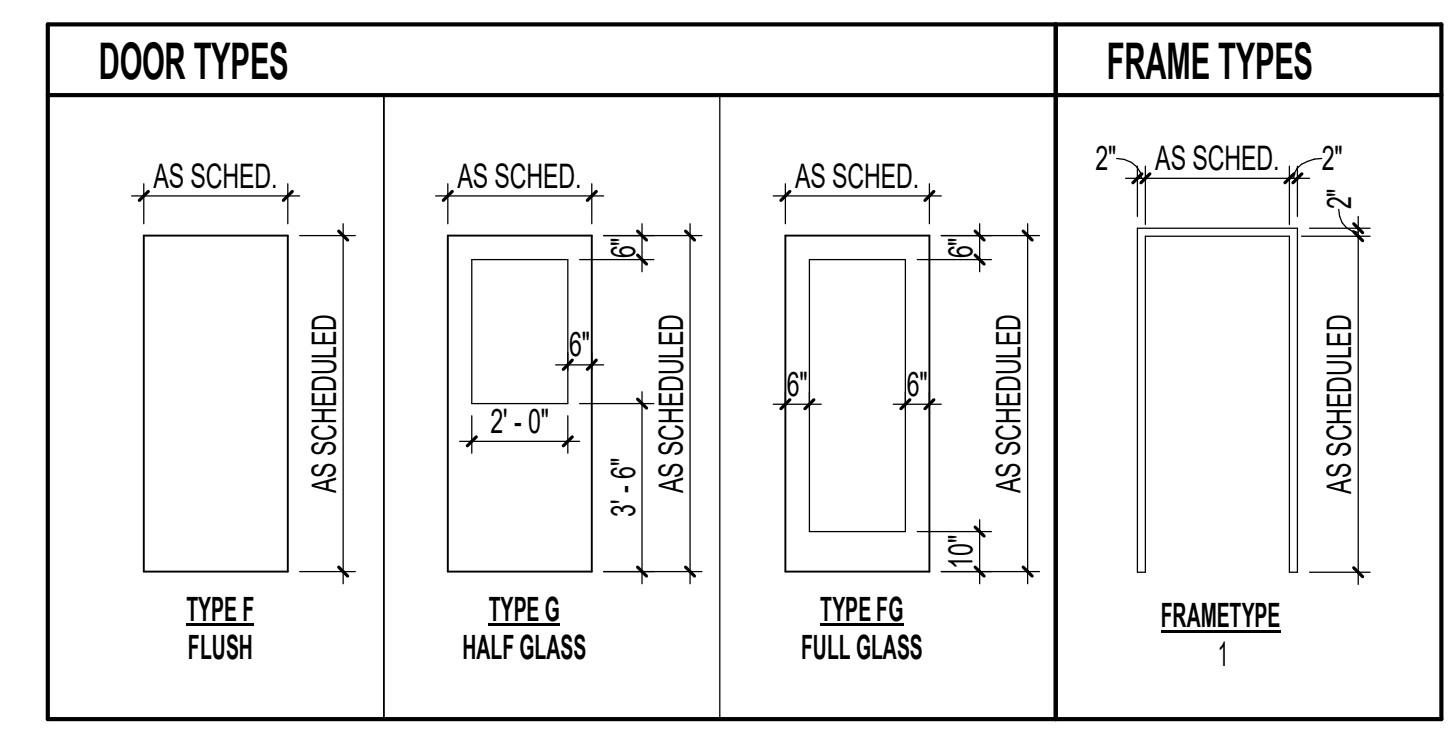


8 SF-7 ELEVATION
1/4\"/>



7 SF-6 INTERIOR ELEVATION
1/4\"/>

NUMBER	ROOM NAME	LEAF QTY	DOOR			FRAME			COMMENTS			
			SIZE	TYPE	MAT	FIN	GL	TYPE		MAT	FIN	
102A	MEET & GREET	1	3'-0"	7'-0"	SF	ALUM	ANNO	GL-1	01	ALUM	ANNO	
102B	MEET & GREET	1	3'-0"	7'-0"	SF	ALUM	ANNO	GL-1	01	ALUM	ANNO	
102C	LOBBY	1	3'-0"	7'-0"	SF	ALUM	ANNO	GL-1	01	ALUM	ANNO	
147	CAT ADOPTION	1	3'-0"	7'-6"	FG	FIBERGLASS	PNT-6E	GL-1	01	FIBERGLASS	PNT-19	
147B	CAT ADOPTION	2	4'-0"	7'-0"	F	FIBERGLASS	PNT-6E	GL-1	01	FIBERGLASS	PNT-19	
148A	CORRIDOR	1	2'-11 1/4"	7'-5 3/4"	SF	ALUM	ANNO	GL-1	SF	ALUM	ANNO	
148B	CORRIDOR	1	2'-11 1/4"	7'-5 3/4"	SF	ALUM	ANNO	GL-1	SF	ALUM	ANNO	
148D		1	0'	0'	SF	ALUM	ANNO	GL-1	SF	ALUM	ANNO	
149	DOG ADOPTION	1	3'-0"	7'-6"	FG	FIBERGLASS	PNT-6E	GL-1	01	FIBERGLASS	PNT-19	
149B	DOG ADOPTION	2	4'-0"	7'-0"	F	FIBERGLASS	PNT-6E	GL-1	01	FIBERGLASS	PNT-19	
150	TREATMENT / LAB	1	3'-0"	6'-8"	F	HM	PNT-6E	GL-1	01	HM	PNT-19	
151A	FOOD STORAGE	1	3'-0"	7'-0"	F	HM	PNT-6E	GL-1	01	HM	PNT-19	
151B	TREATMENT / LAB	1	3'-0"	6'-8"	F	FIBERGLASS	PNT-6E	GL-1	01	FIBERGLASS	PNT-19	
153	STORAGE	1	3'-0"	7'-0"	F	HM	PNT-6E	GL-1	01	HM	PNT-19	
155	RISER RM	1	3'-0"	6'-8"	F	HM	PNT-6E	GL-1	01	HM	PNT-19	
158		1	0'	0'	SF	ALUM	ANNO	GL-1	SF	ALUM	ANNO	



DIVISION 08 - GLAZING TYPE LEGEND	
GL-1	088000.1 - GLAZING - GL-1 TYPE VISION GLASS MATERIAL: 1" INSULATING GLASS UNIT MINIMUM VALUES - VLT: 50% U-FACTOR: 0.29 SHGC: 0.25
GL-2	088000.2 - GLAZING - GL-2 TYPE 1/4" INTERIOR VISION GLASS MATERIAL: 1/4" CLEAR FLOAT GLASS
T	FULLY TEMPERED GLAZING TO MATCH GLASS PANEL

6 SF-5 ELEVATION
1/4" = 1'-0"

5 SF-4 ELEVATION
1/4" = 1'-0"

4 SF-3 ELEVATION
1/4" = 1'-0"

3 SF-2 ELEVATION
1/4" = 1'-0"

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

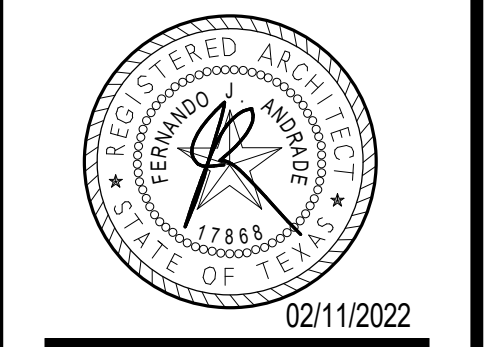
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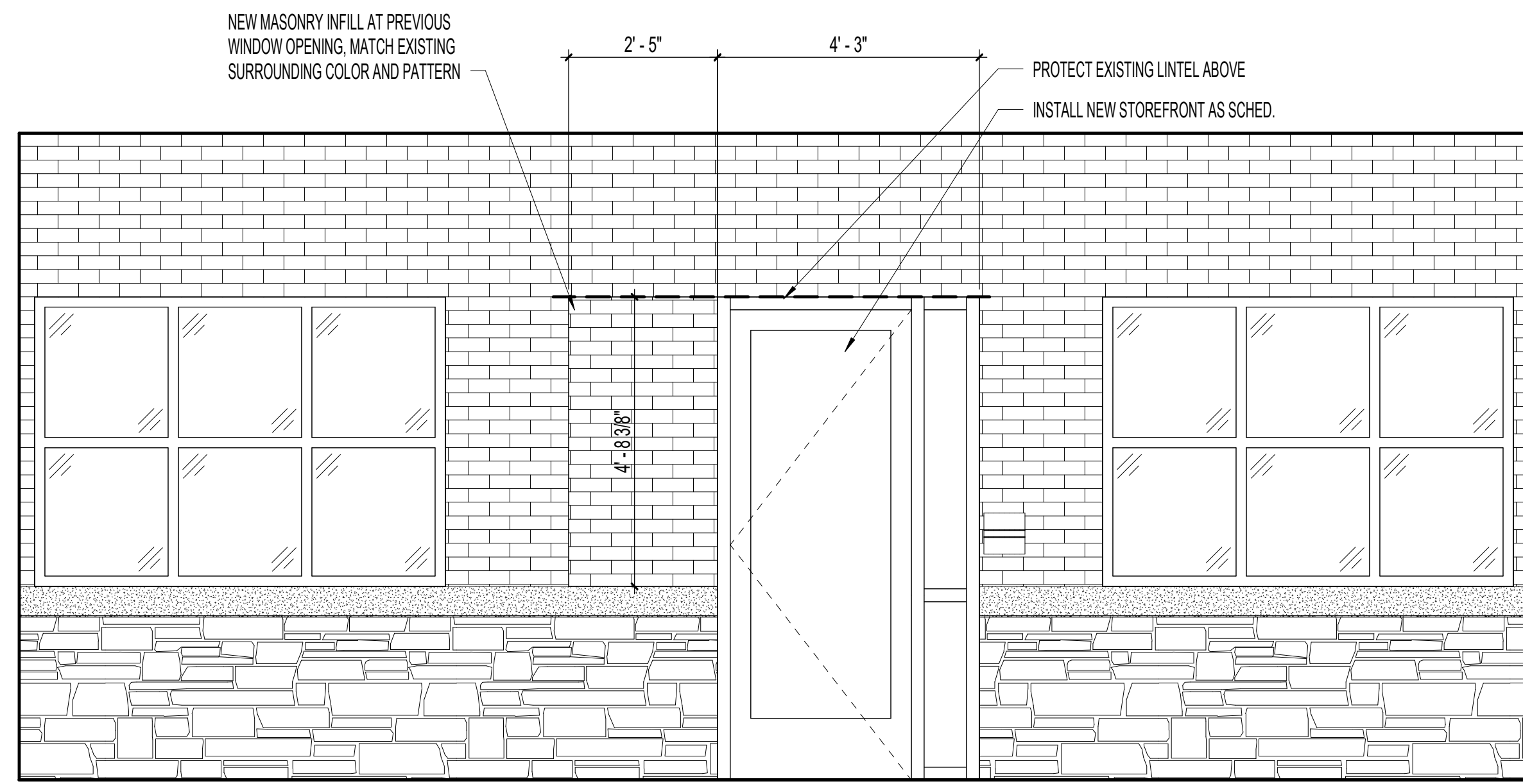


Revisions:

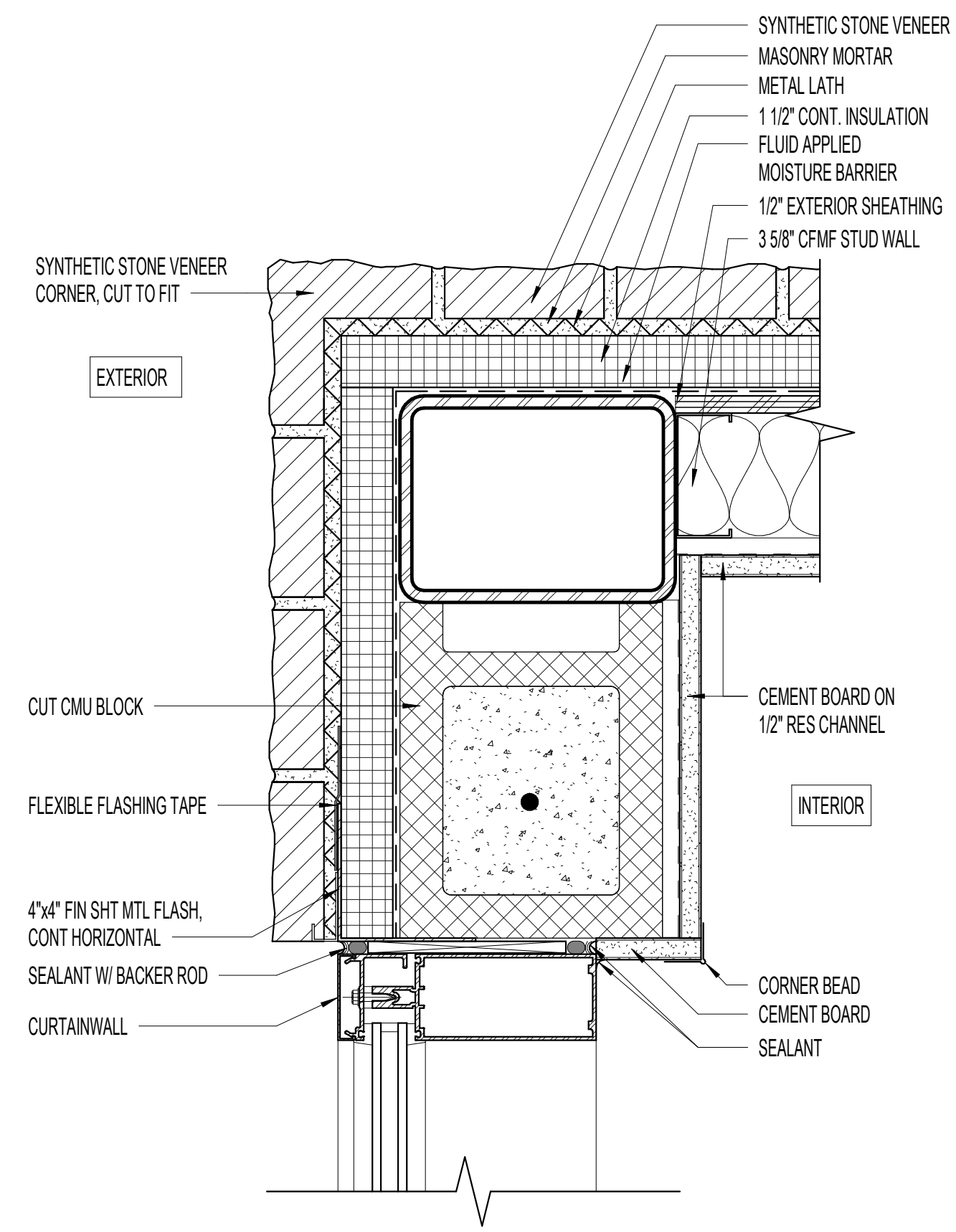
REV.	DATE	TITLE

Date:
CONSTRUCTION DOCS
02-11-2022
Project No.
2942
Drawn By:
DW_OV
Checked By:
RG
Sheet Title:
DOOR / WINDOW SCHEDULE
& DETAILS
Drawing No.

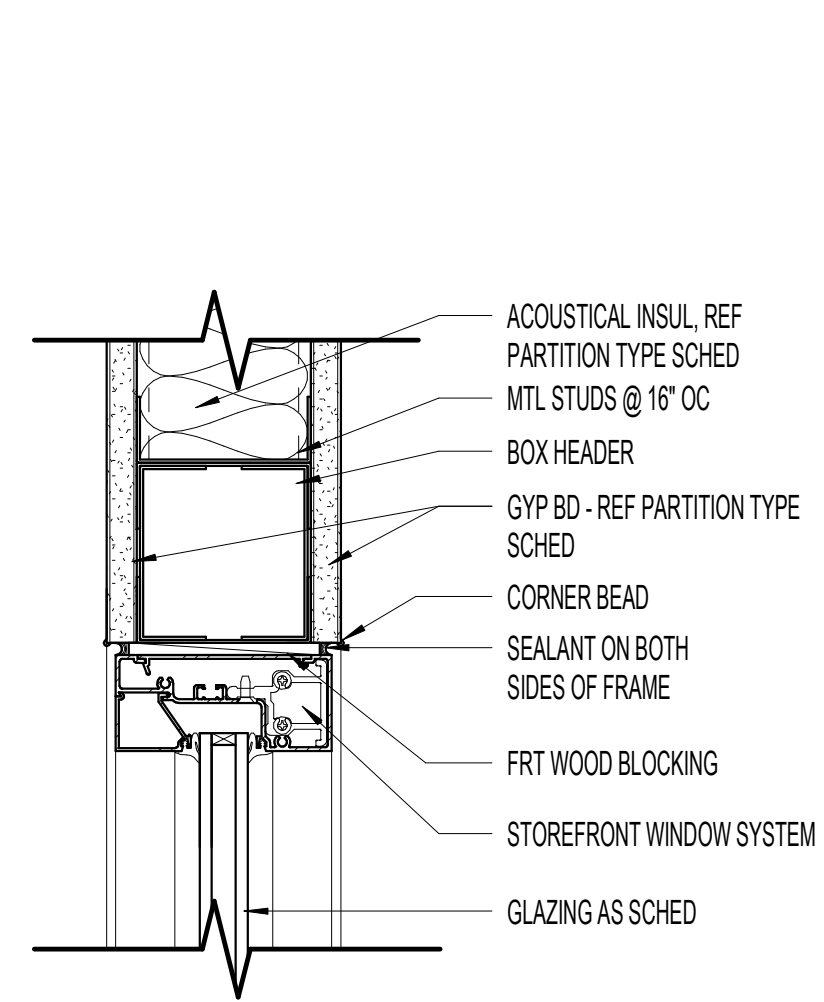
A7.10



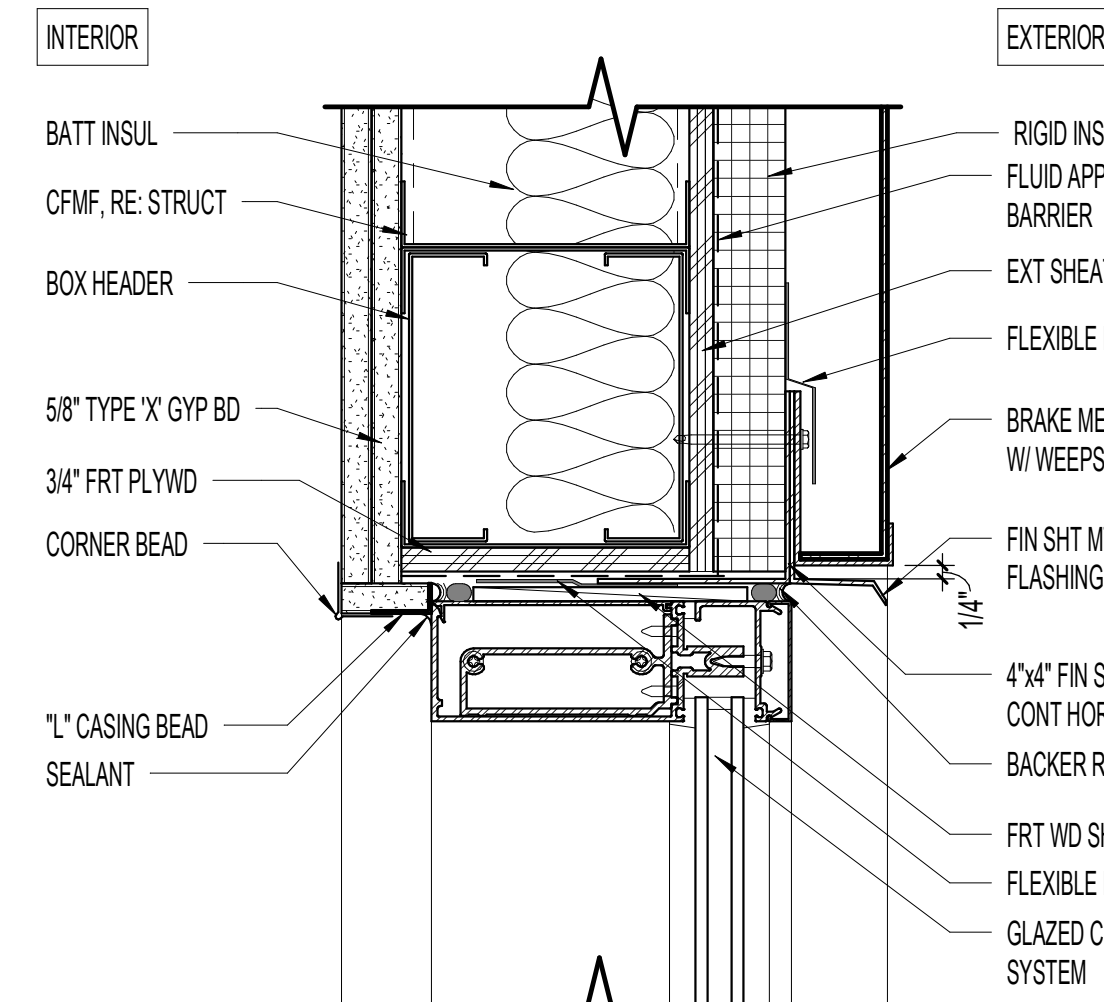
18 OPENING EXISTING WALL ELEVATION
1/2" = 1'-0"



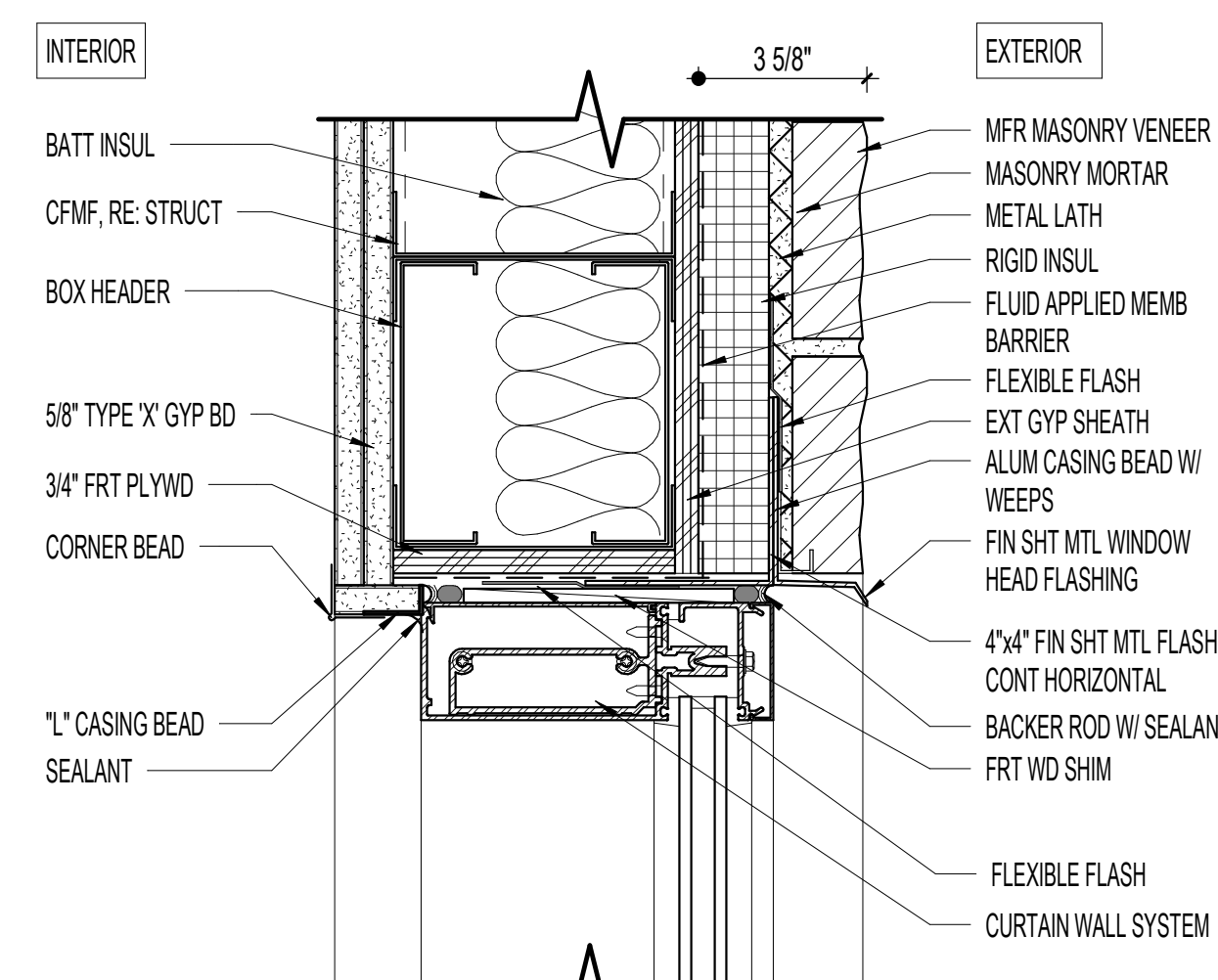
8 PLAN DETAIL - SF JAMB @ STONE CORNER
3" = 1'-0"



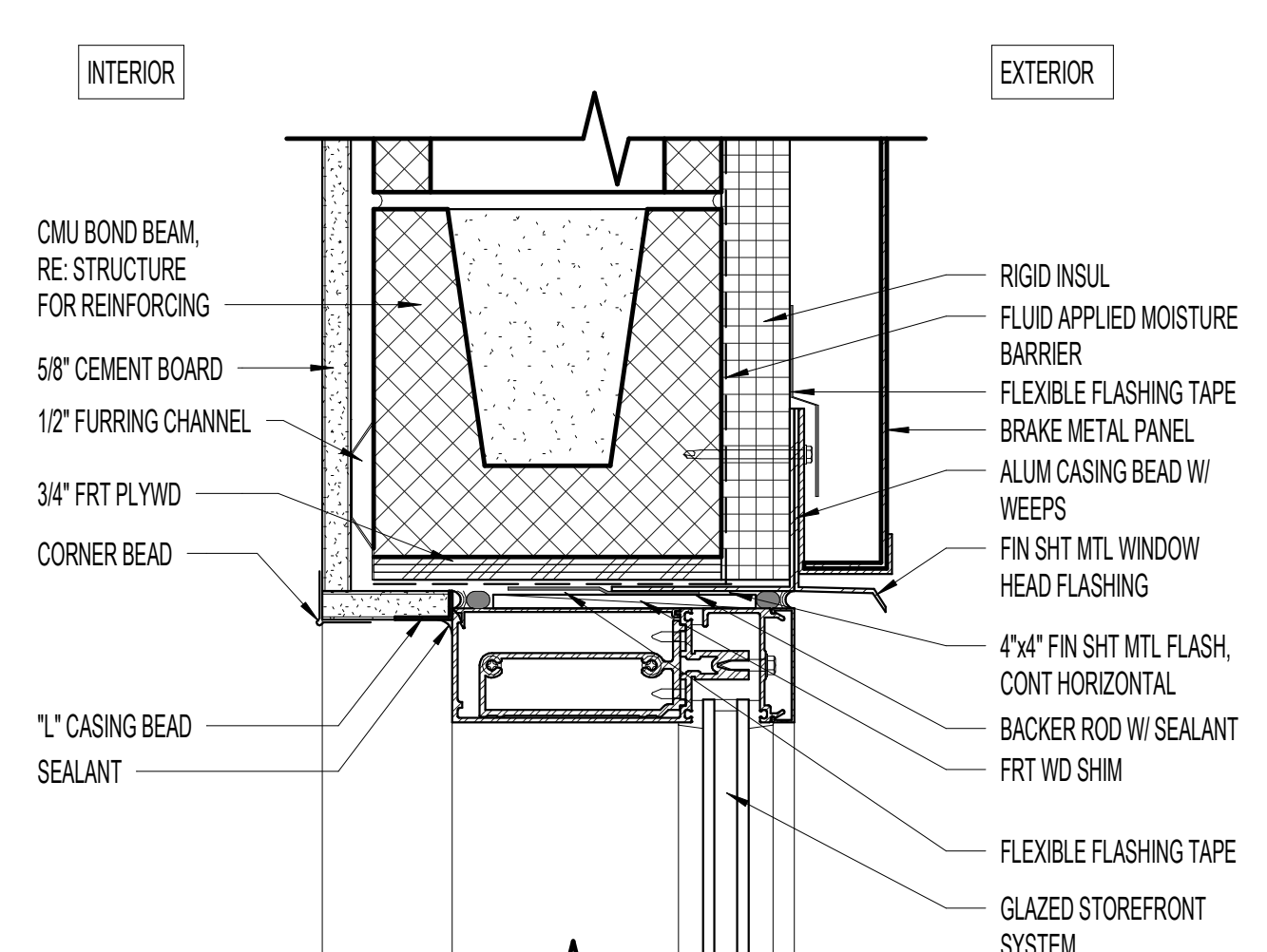
17 INT - STRFRNT WDW HEAD
3" = 1'-0"



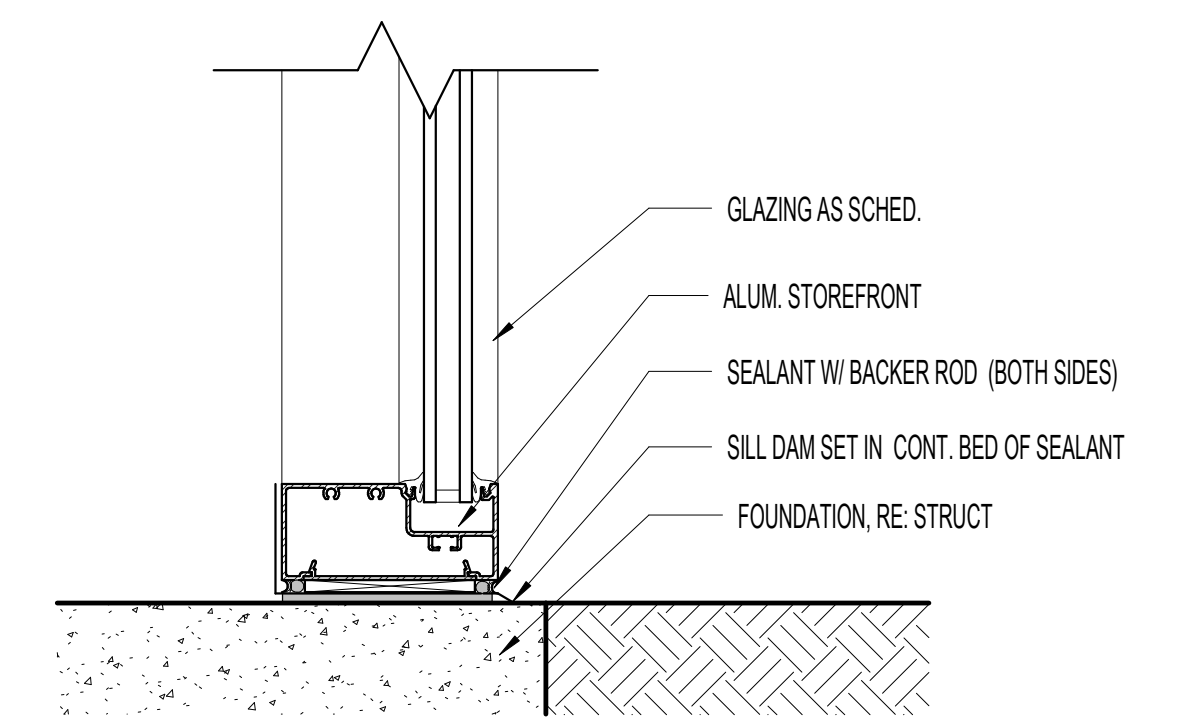
14 EXT - STRFRNT HEAD @ BREAK METAL
3" = 1'-0"



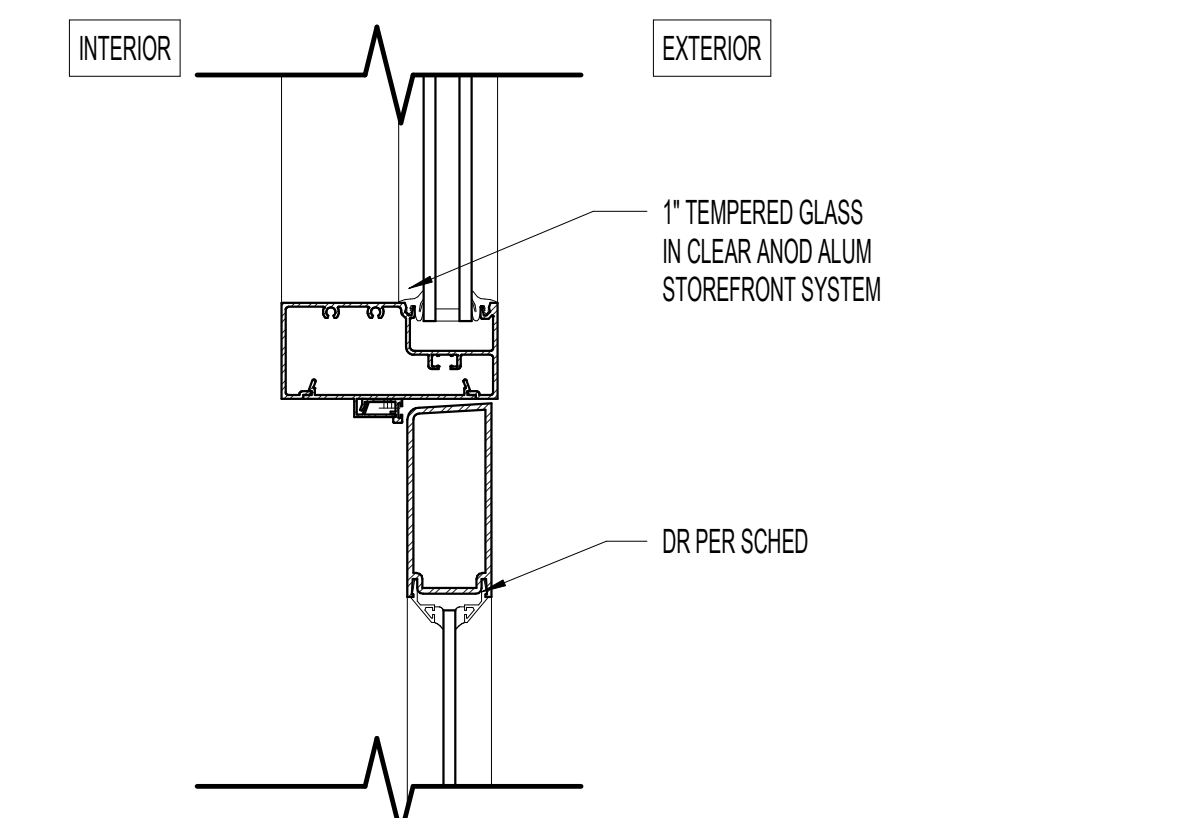
11 EXT - STRFRNT HEAD @ STONE
3" = 1'-0"



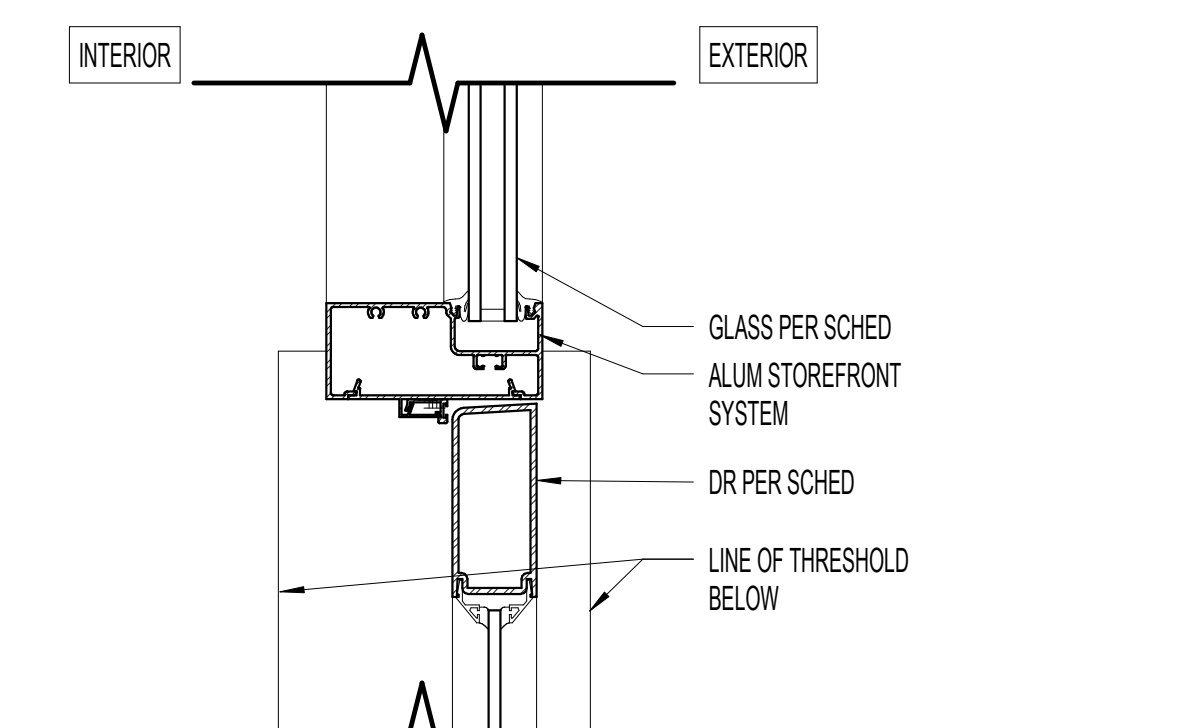
7 EXT - STRFRNT HEAD @ BRAKE MTL & CMU
3" = 1'-0"



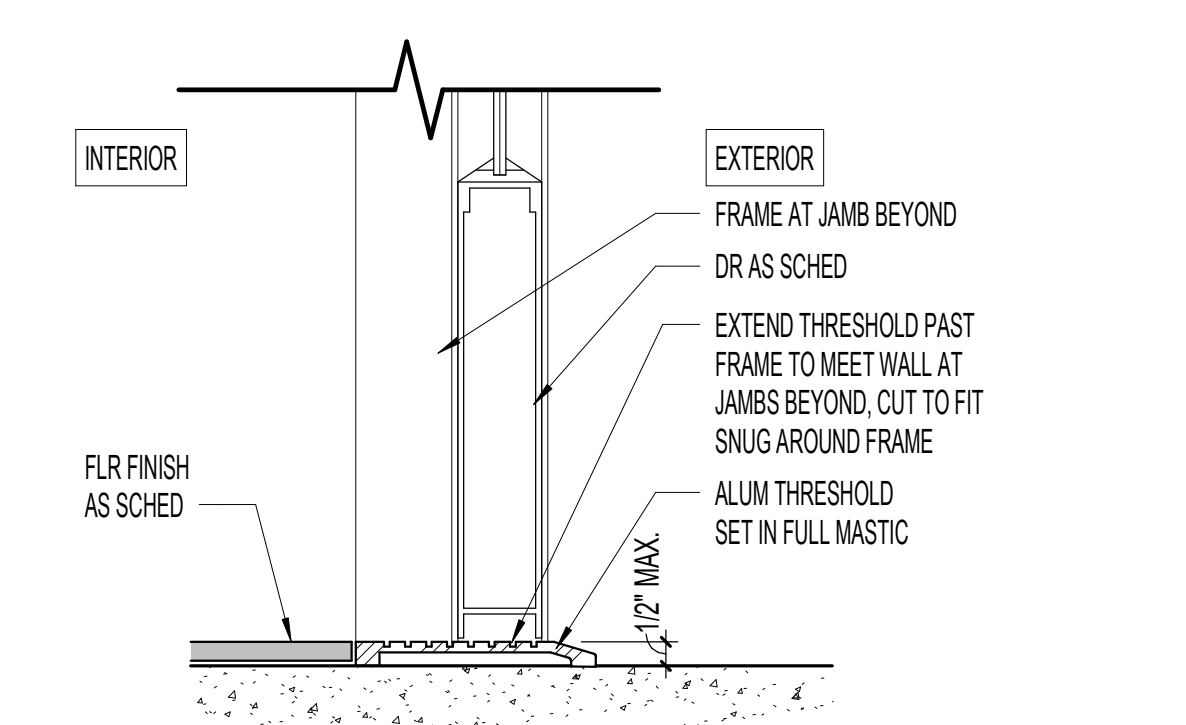
4 SF SILL @ SLAB
3" = 1'-0"



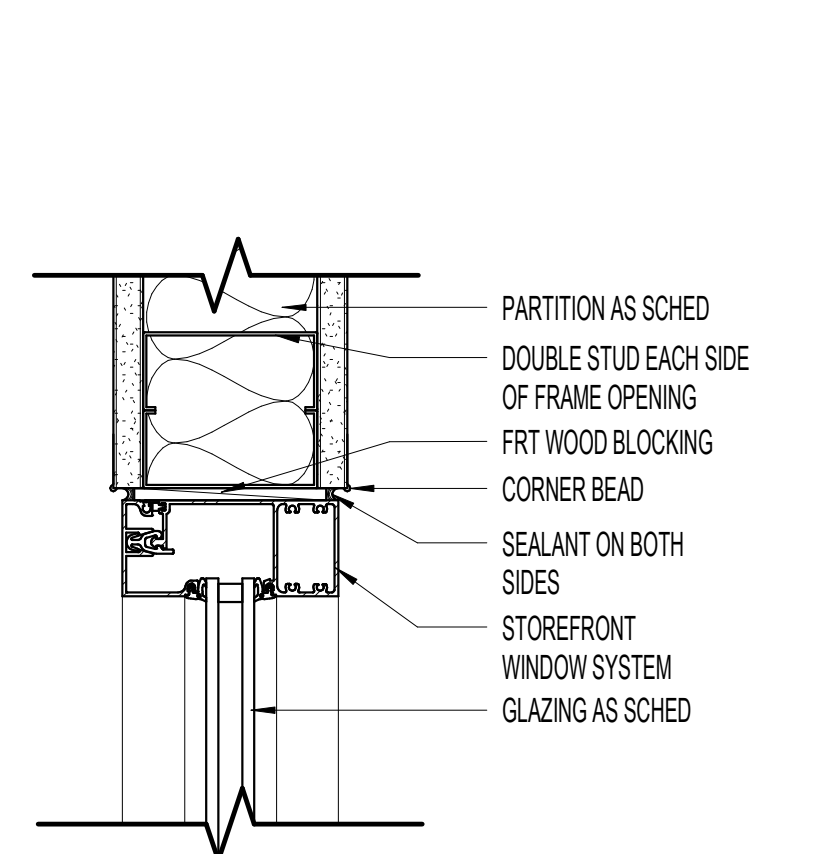
3 STOREFRONT HEAD
3" = 1'-0"



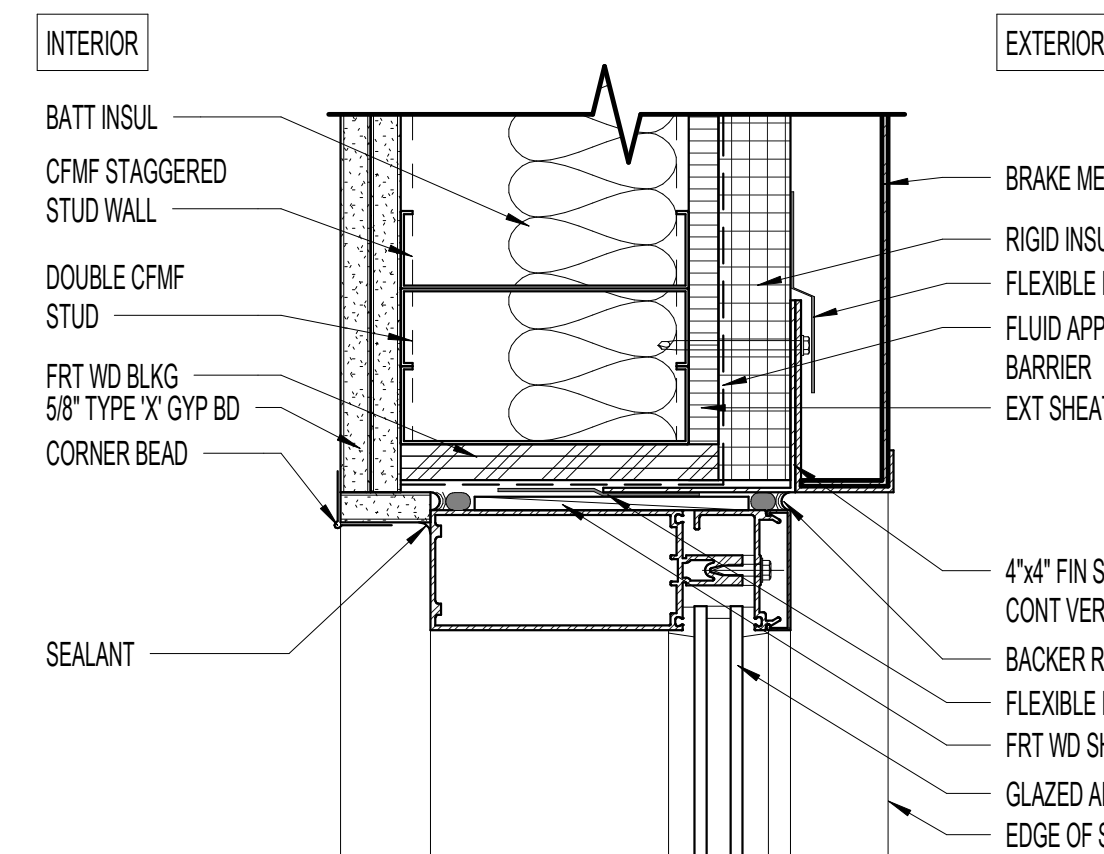
2 STOREFRONT JAMB
3" = 1'-0"



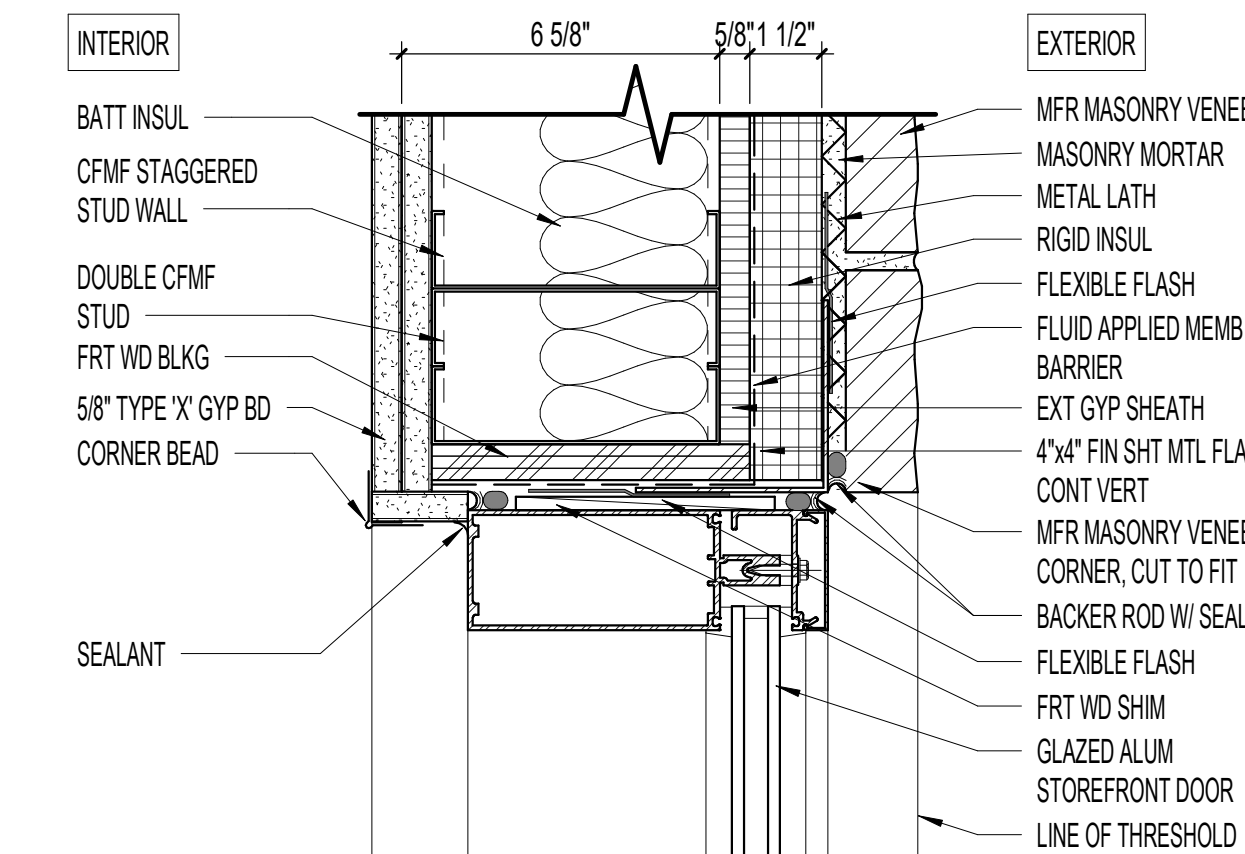
1 STOREFRONT THRESHOLD
3" = 1'-0"



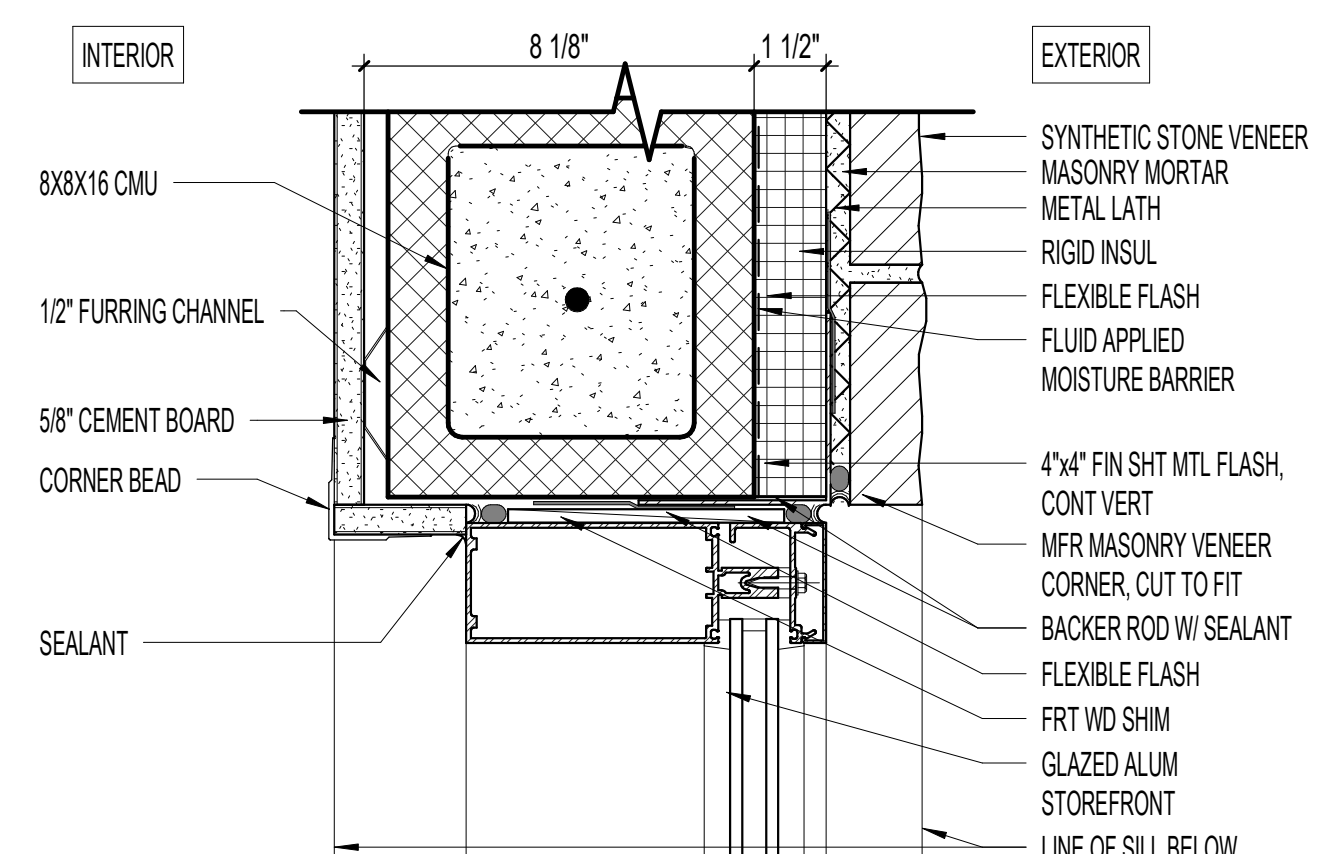
16 INT - STRFRNT WDW JAMB
3" = 1'-0"



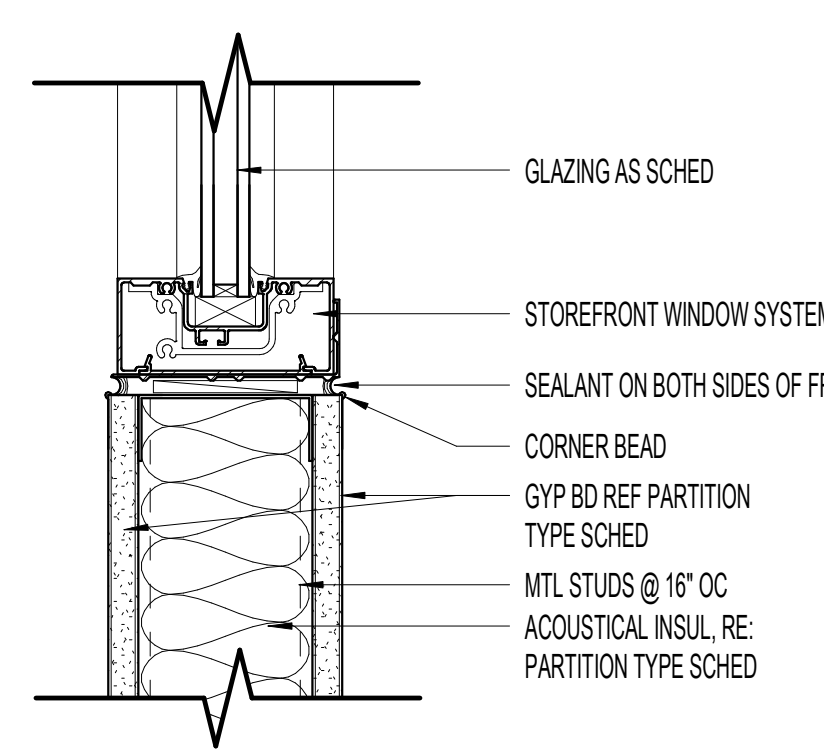
13 EXT - STRFRNT JAMB @ BRAKE METAL
3" = 1'-0"



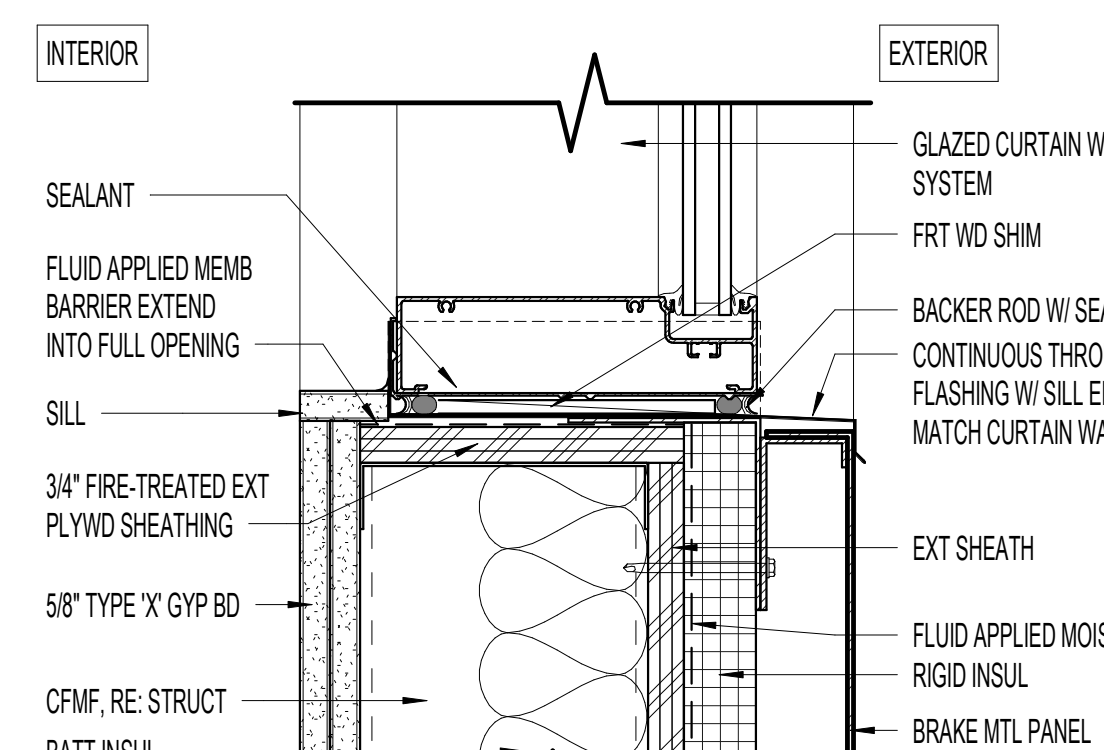
10 EXT - STRFRNT JAMB @ STONE RETURN
3" = 1'-0"



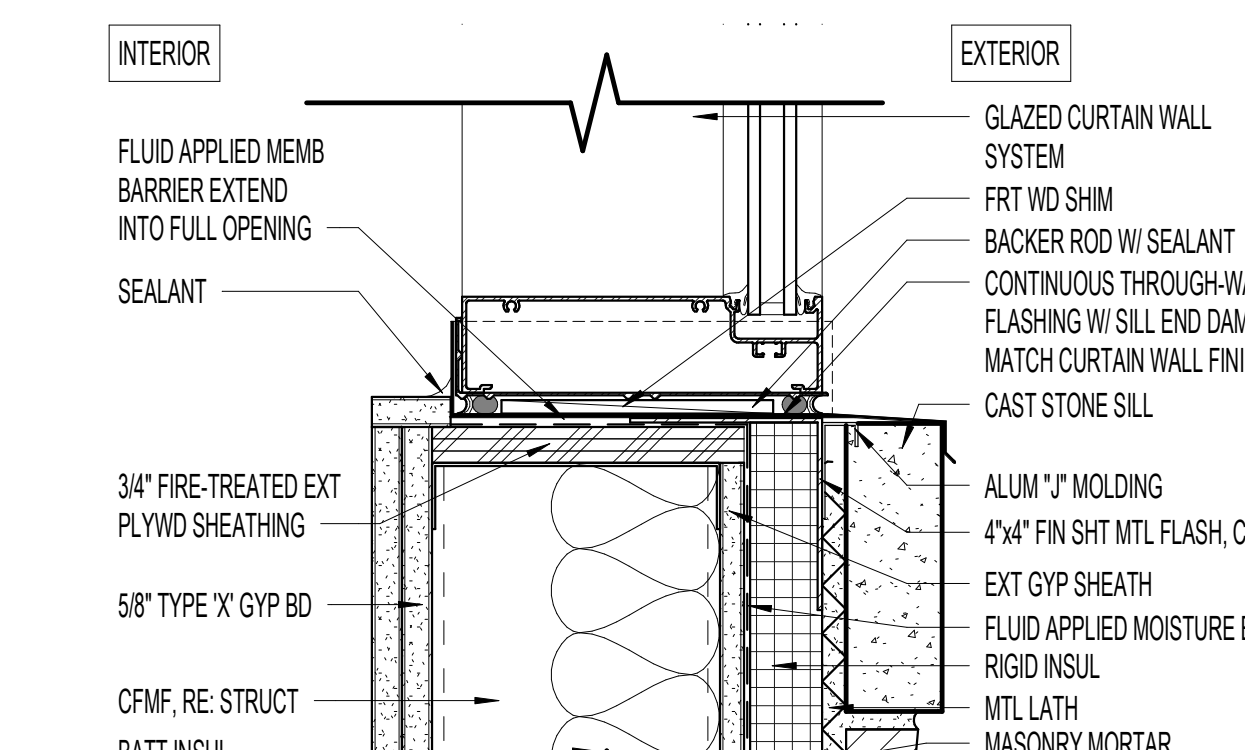
6 EXT - STRFRNT JAMB @ STONE RETURN & CMU
3" = 1'-0"



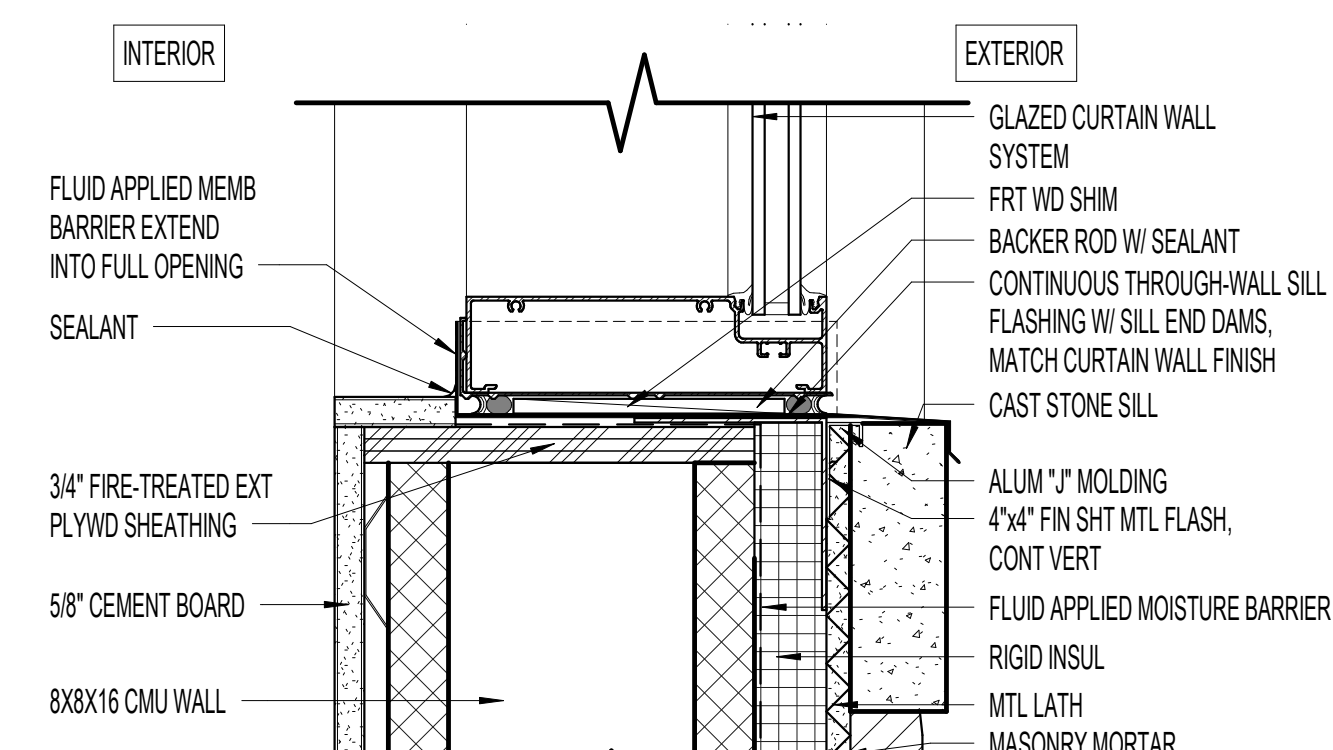
15 INT - STRFRNT WDW SILL
3" = 1'-0"



12 EXT - STRFRNT SILL @ BRAKE METAL
3" = 1'-0"



9 EXT - STRFRNT SILL @ STONE
3" = 1'-0"



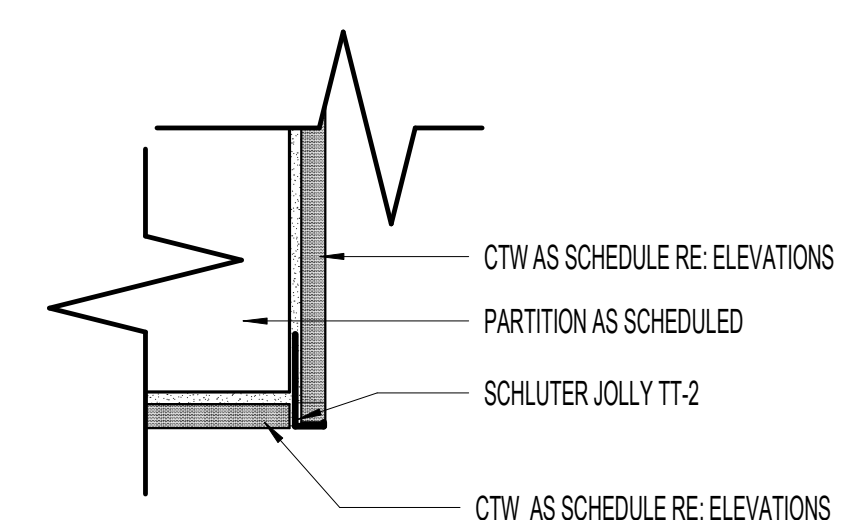
5 EXT - STRFRNT SILL @ STONE & CMU
3" = 1'-0"

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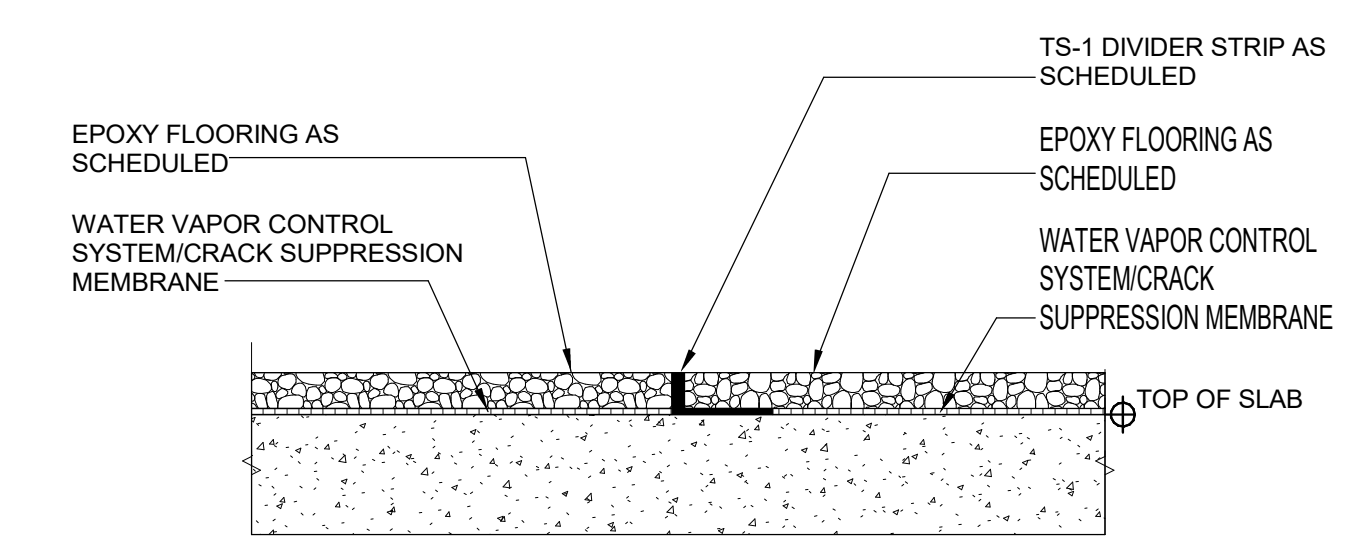
REV.	DATE	TITLE

SIGN SCHEDULE					
MARK	ROOM NAME	SIGN NUMBER	SIGN TEXT	BRAILLE	COMMENTS
102	LOBBY	102	MEET & GREET	Yes	SIGNAGE
102A	NEW CORRIDOR	102A	MEET & GREET 1	Yes	SIGNAGE
102B	NEW CORRIDOR	102B	MEET & GREET 2	Yes	SIGNAGE
147	CORRIDOR	147	CAT ADOPTION	Yes	SIGNAGE
148	CORRIDOR	148	ADOPTION CORRIDOR	Yes	SIGNAGE
149	CORRIDOR	149	DOG ADOPTION	Yes	SIGNAGE
150	TREATMENT / LAB	150	ELECTRICAL RM	Yes	SIGNAGE
151A	FOOD STORAGE	151	TREATMENT / LAB	Yes	SIGNAGE
151B	DOG ADOPTION	151	TREATMENT / LAB	Yes	SIGNAGE
153	FOOD STORAGE	153	FOOD STORAGE	Yes	SIGNAGE

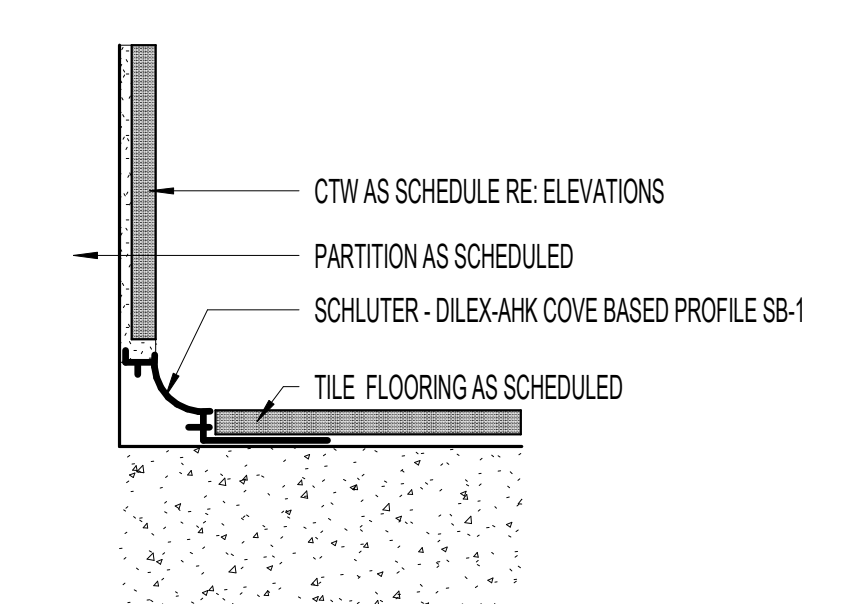
- SIGNAGE NOTES**
- CONTRACTOR TO VERIFY ALL SIGN INFORMATION AND FINISHES WITH ARCHITECT AND OWNER PRIOR TO FABRICATION.
 - INTERIOR FINISHES:
 - ALUMINUM WITH RAISED COPY AND BRAILLE
 - SIGN BACKGROUND: GRAY
 - FONT: CALIBRI, COLOR: BLACK
 - ALL INTERIOR SIGNS TO BE VANDAL RESISTANT, FLUSH MOUNTED, AND BLIND FASTENED TO THE FACE OF FINISHED WALL.
 - VERIFY NUMBERS OF PERSONS FOR MAXIMUM OCCUPANCY WITH ARCHITECT AND OWNER PRIOR TO FABRICATION OF SIGNS.
 - BASIS OF DESIGN: GEMINI SIGN PRODUCTS
 - REFER TO FLOOR PLANS AND INTERIOR ELEVATIONS FOR SIGNAGE LOCATIONS.
 - SIGNAGE FINISHES, TEXT, AND SIZES SHALL BE CONSISTENT WITH EXISTING SIGNAGE THROUGHOUT THE BUILDING. VERIFY DIMENSIONS OF EXISTING SIGNAGE AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
 - VERIFY ALL SIGN VERBIAGE WITH OWNER AND BUILDING FACILITY MANAGEMENT PRIOR TO PRODUCTION.



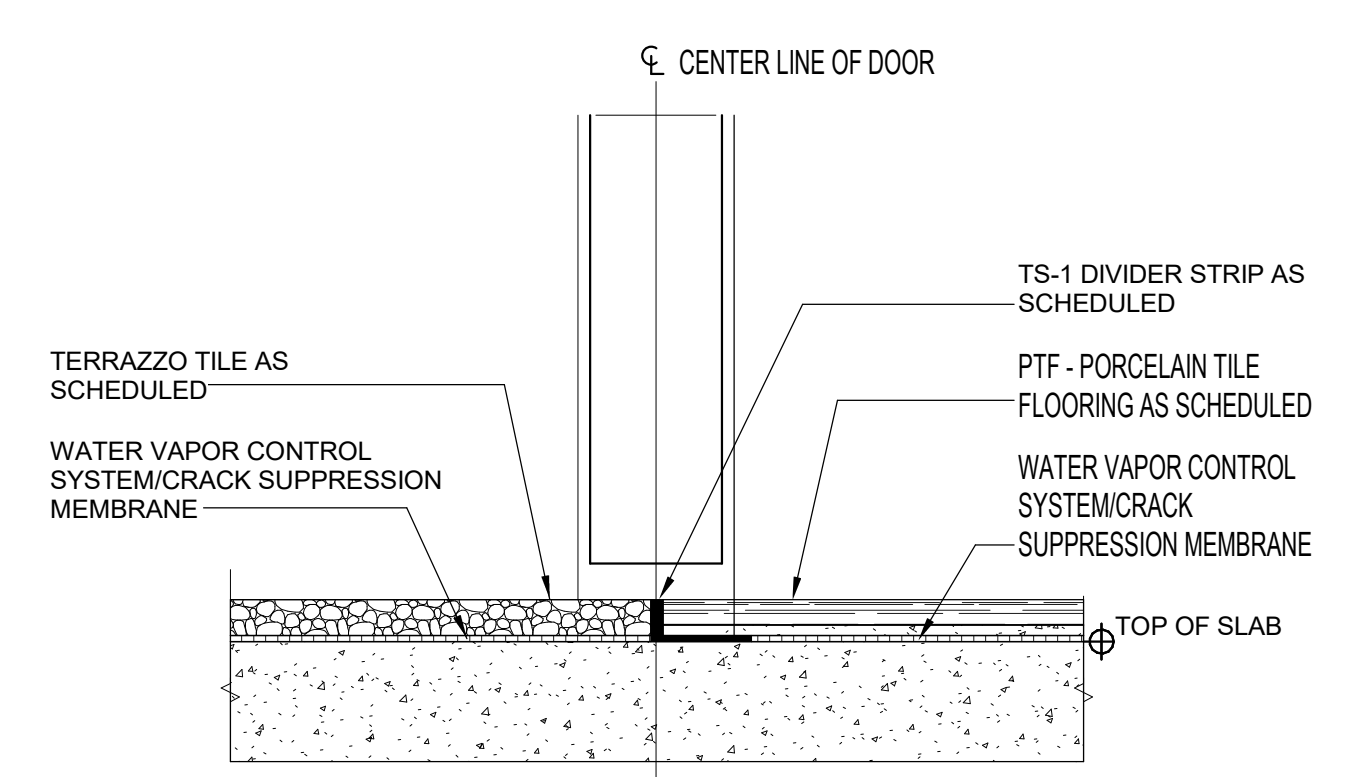
4 SCHLUTER EDGE PROFILE
6" = 1'-0"



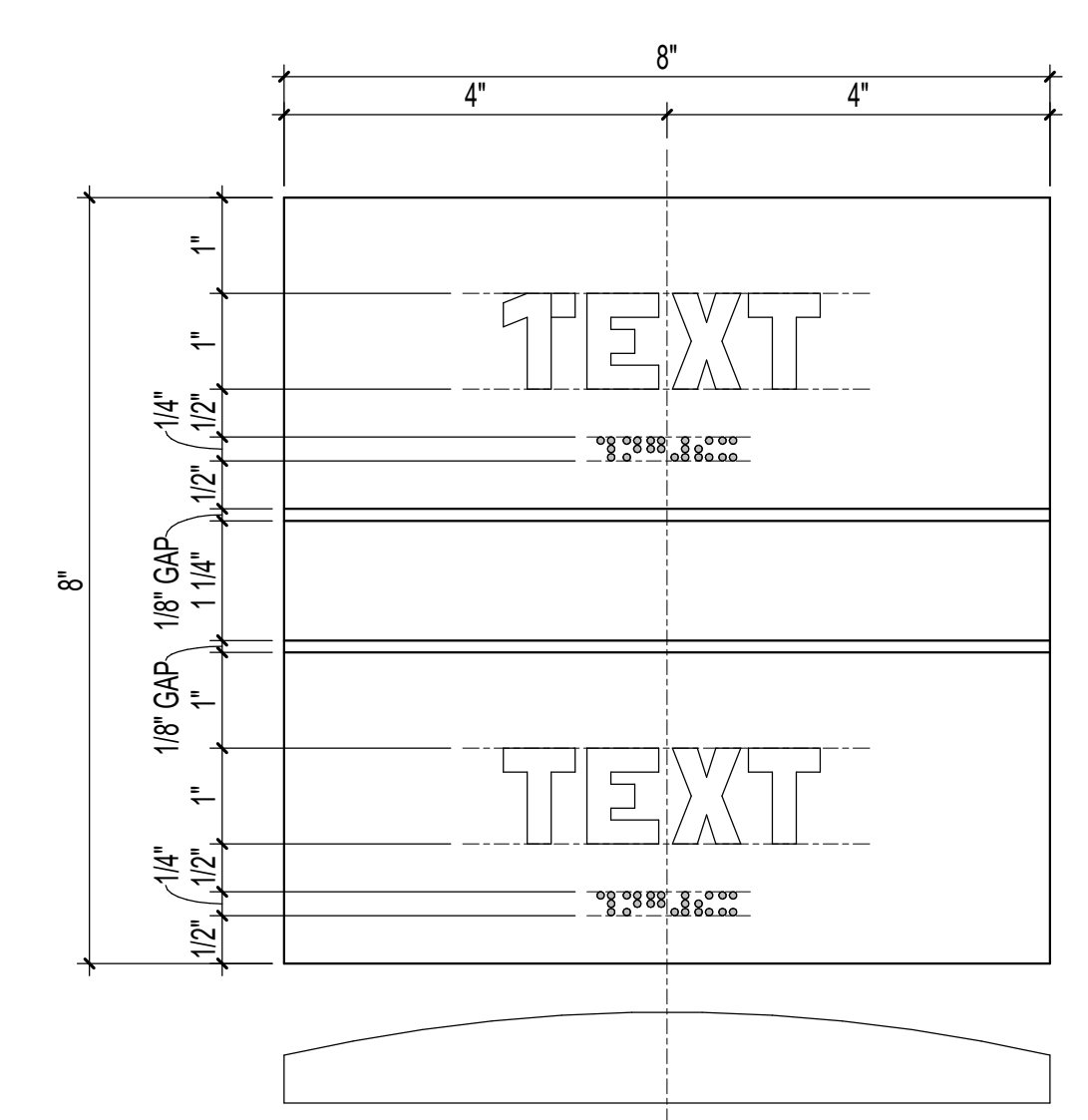
2 EPOXY FLOORING TO EPOXY FLOORING
6" = 1'-0"



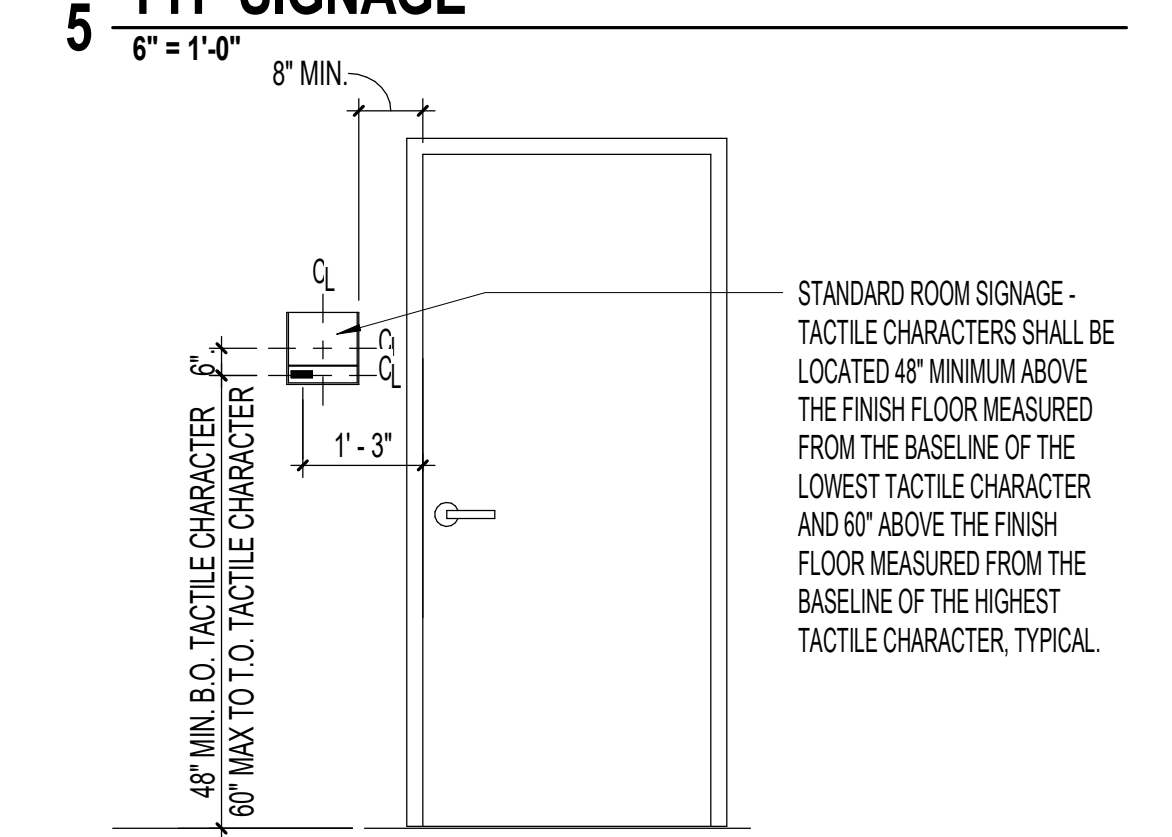
3 SCHLUTER COVERED BASE PROFILE
6" = 1'-0"



1 EPOXY FLOORING TO PORCELAIN TILE
6" = 1'-0"



5 TYP SIGNAGE
6" = 1'-0"



6 SIGN MOUNTING DETAIL
1/2" = 1'-0"

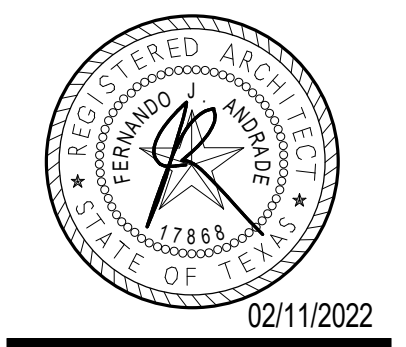
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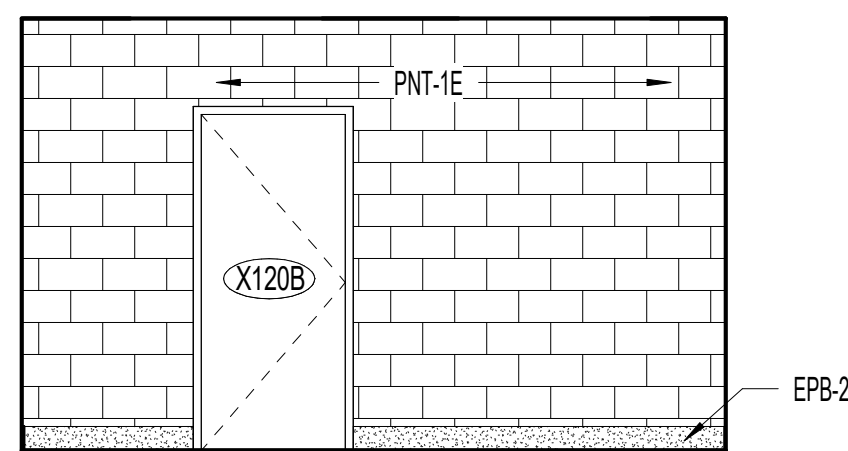


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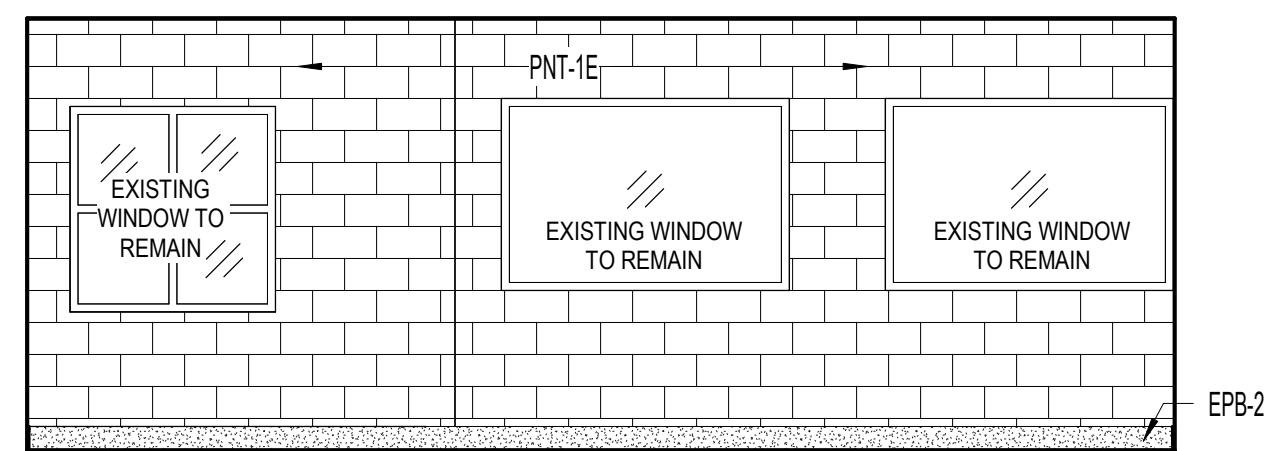
REV.	DATE	TITLE

Date: CONSTRUCTION DOCS 02-11-2022
Project No. 2942
Drawn By: XXX
Checked By: Checker
Sheet Title: INTERIOR FINISH DETAILS & SIGNAGE SCHEDULE
Drawing No.

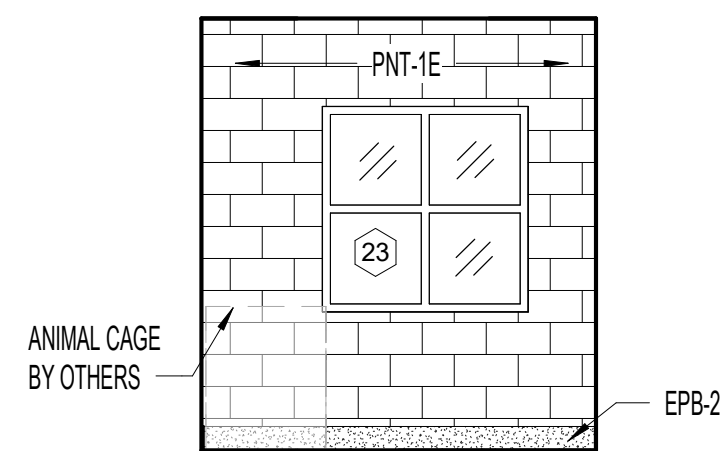
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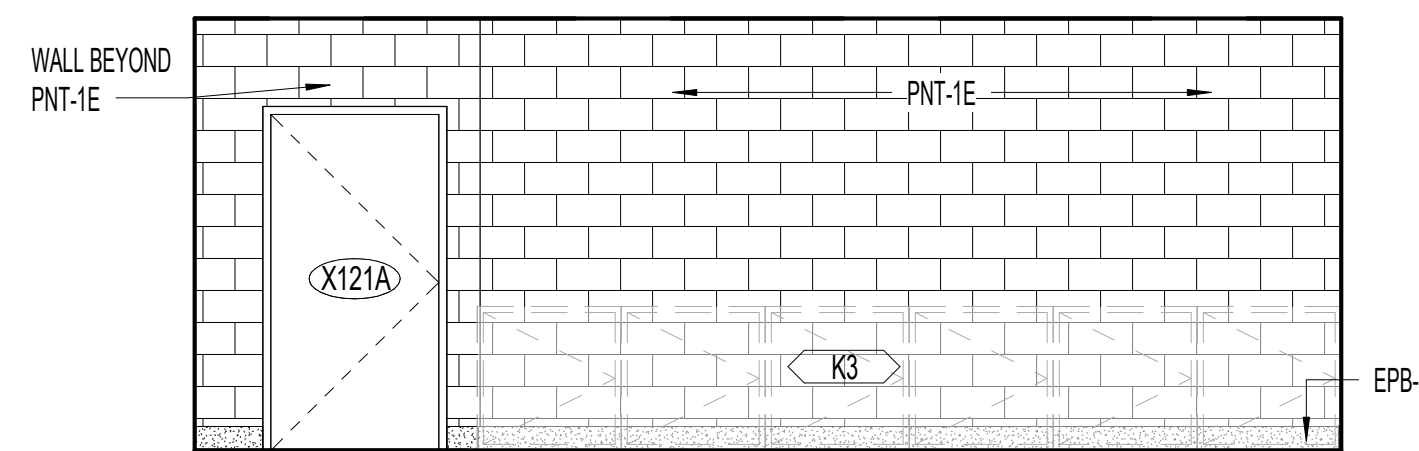
22 CAT COLONY 121A
1/4" = 1'-0"



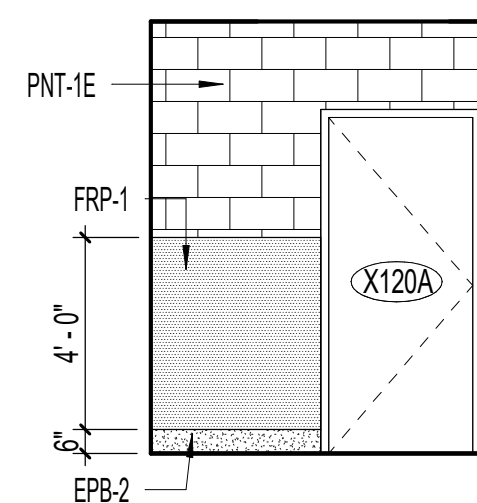
21 CAT COLONY 121A
1/4" = 1'-0"



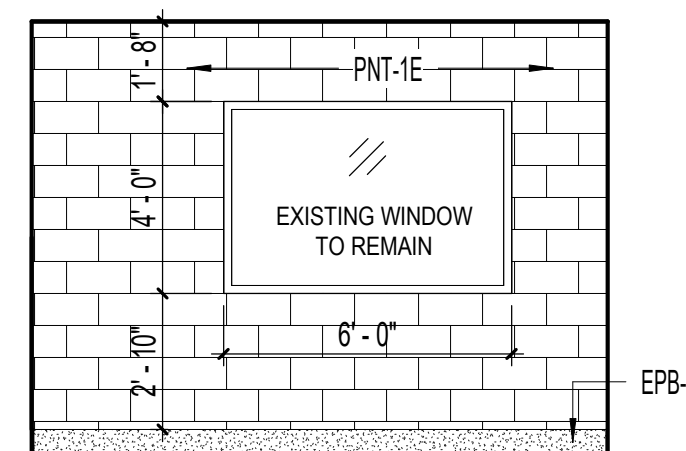
20 CAT COLONY 121A
1/4" = 1'-0"



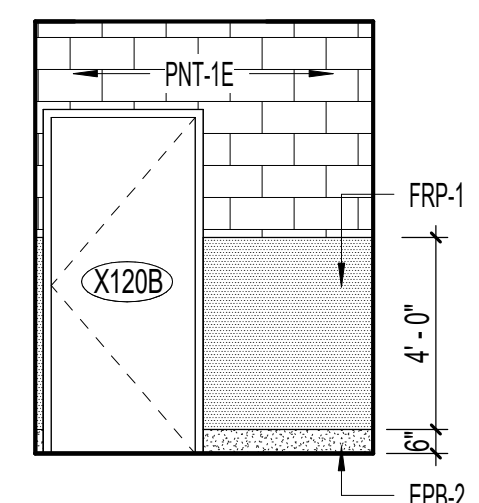
19 CAT COLONY 121A
1/4" = 1'-0"



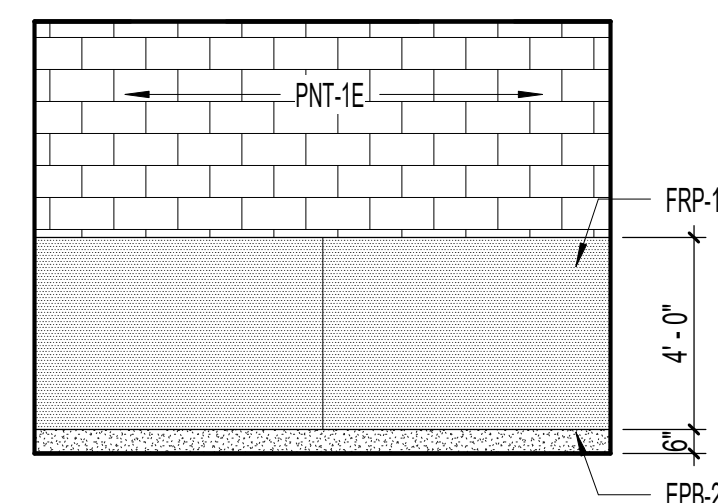
18 CAT MEET & GREET 120A
1/4" = 1'-0"



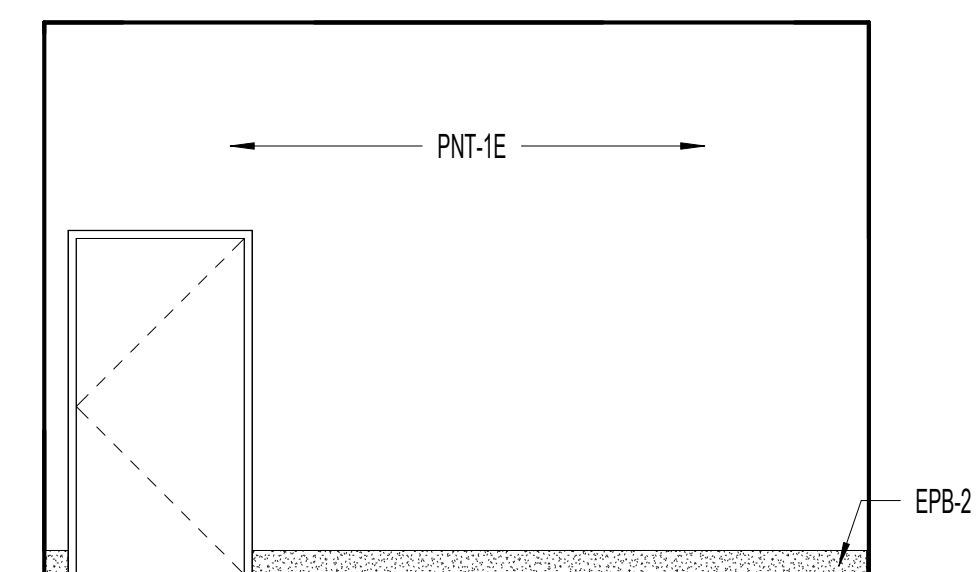
17 CAT MEET & GREET 120A
1/4" = 1'-0"



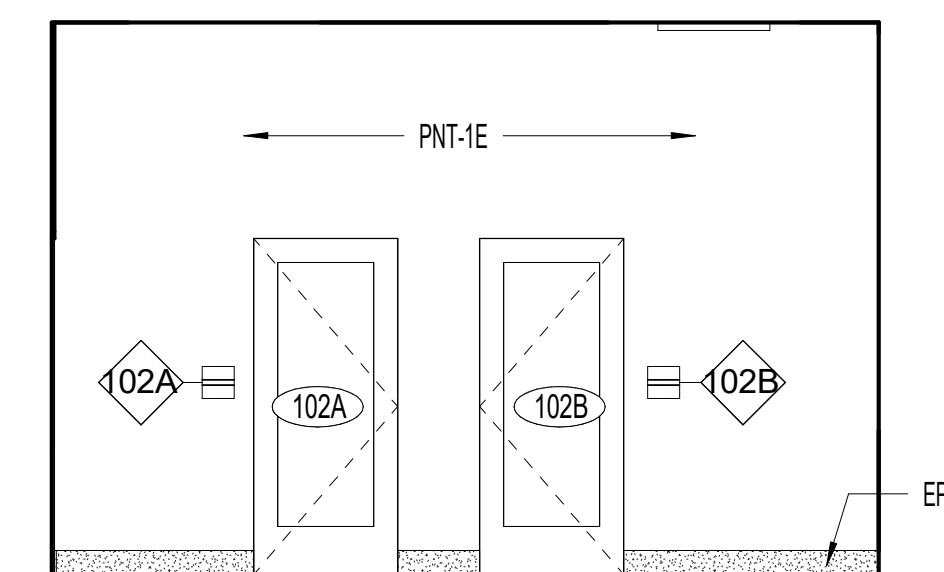
16 CAT MEET & GREET 120A
1/4" = 1'-0"



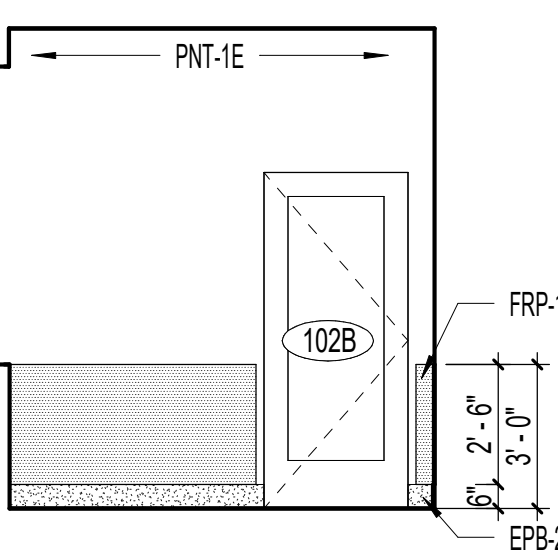
15 CAT MEET & GREET 120A
1/4" = 1'-0"



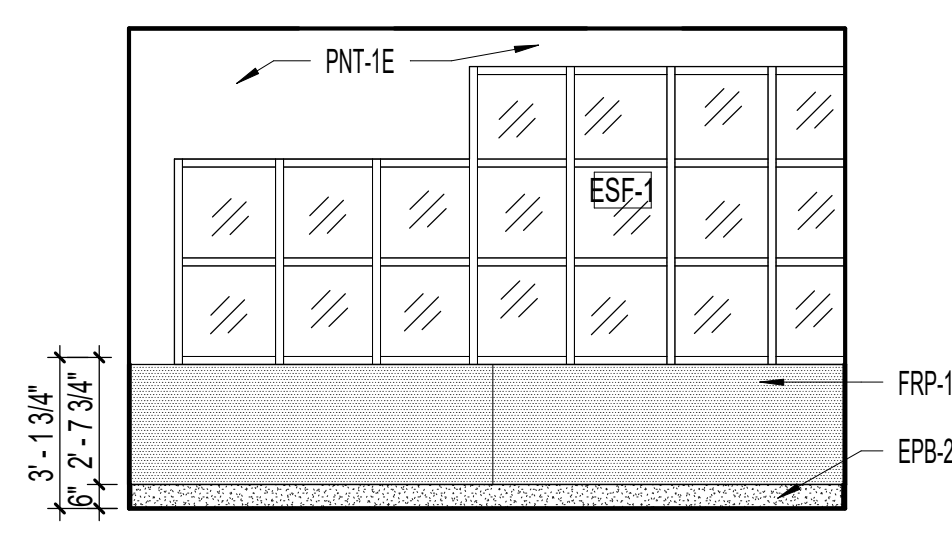
14 CORRIDOR 102C
1/4" = 1'-0"



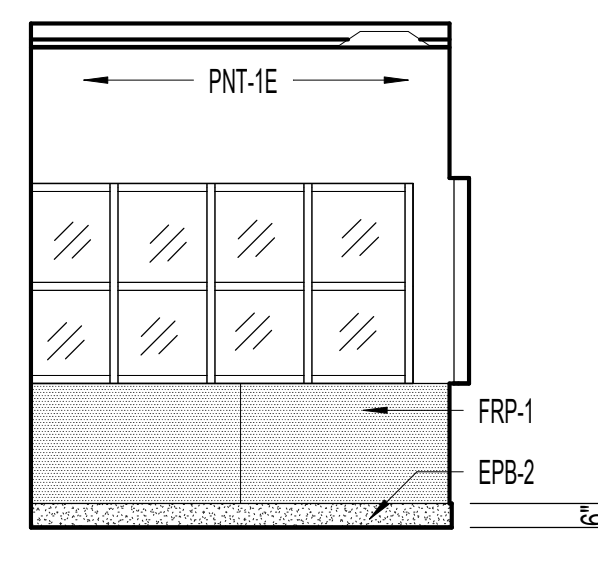
13 CORRIDOR 102C
1/4" = 1'-0"



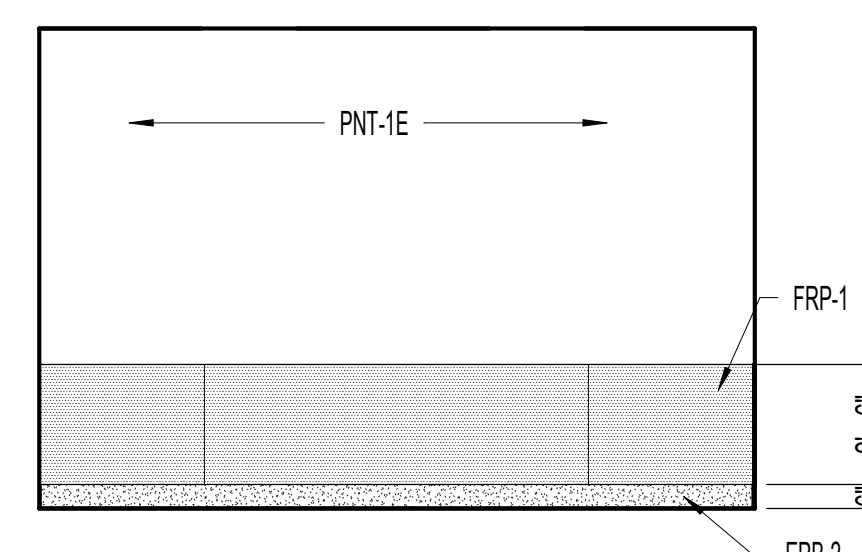
12 MEET & GREET 102B
1/4" = 1'-0"



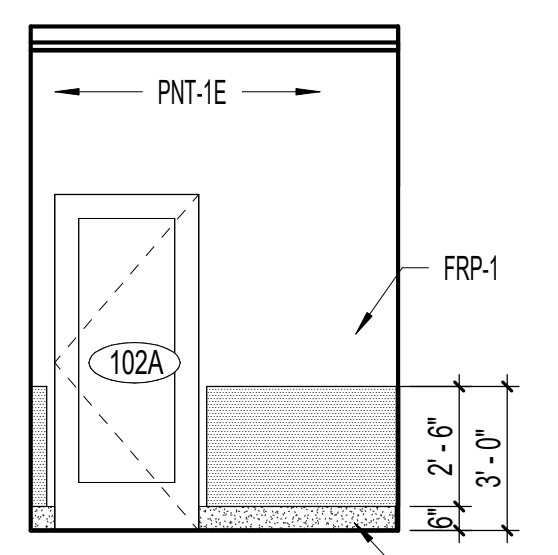
11 MEET & GREET 102B
1/4" = 1'-0"



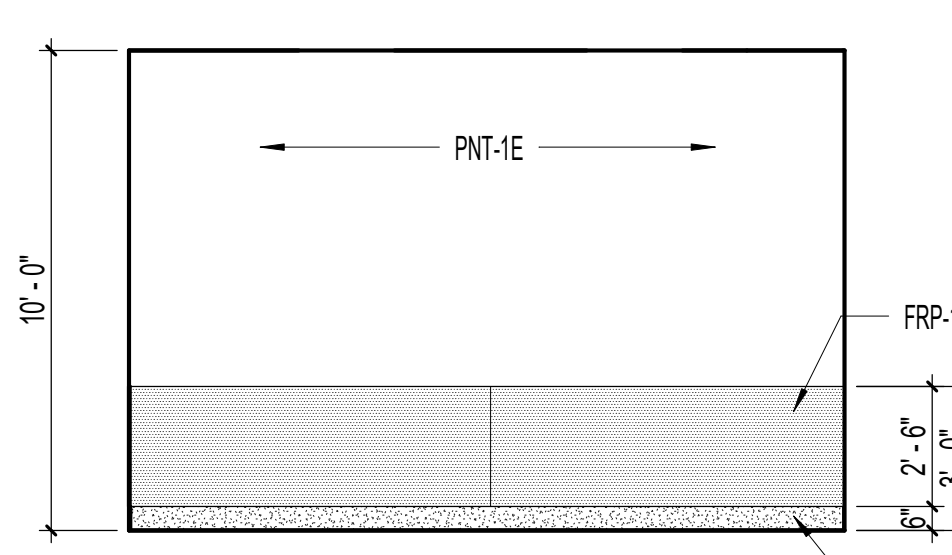
10 MEET & GREET 102B
1/4" = 1'-0"



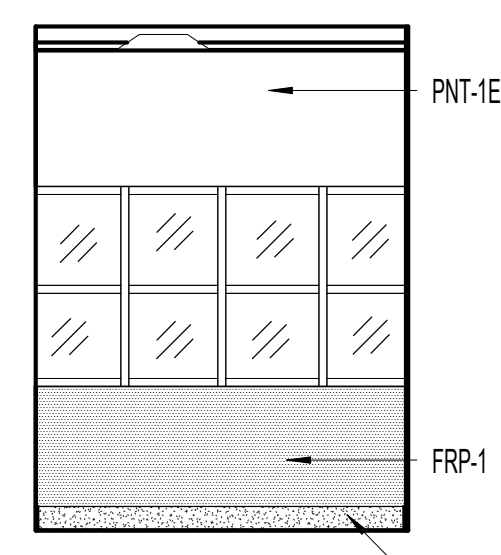
9 MEET & GREET 102B
1/4" = 1'-0"



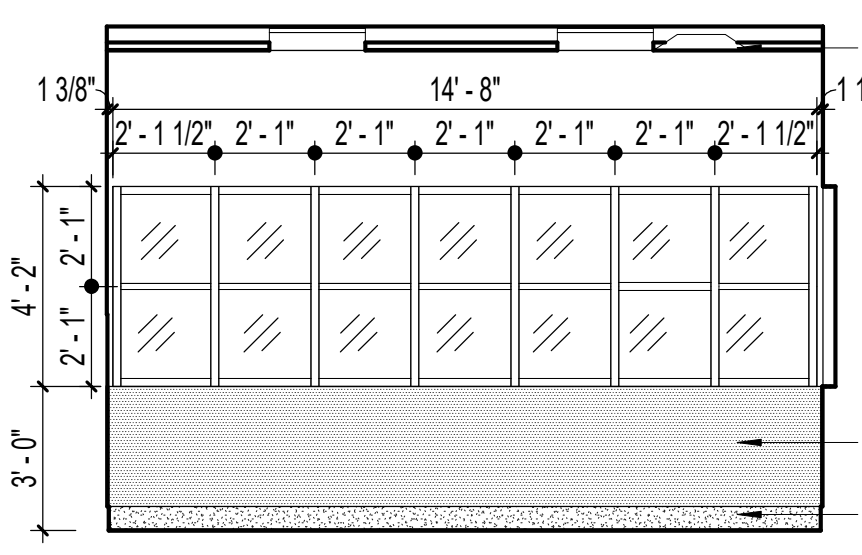
8 MEET & GREET 102A
1/4" = 1'-0"



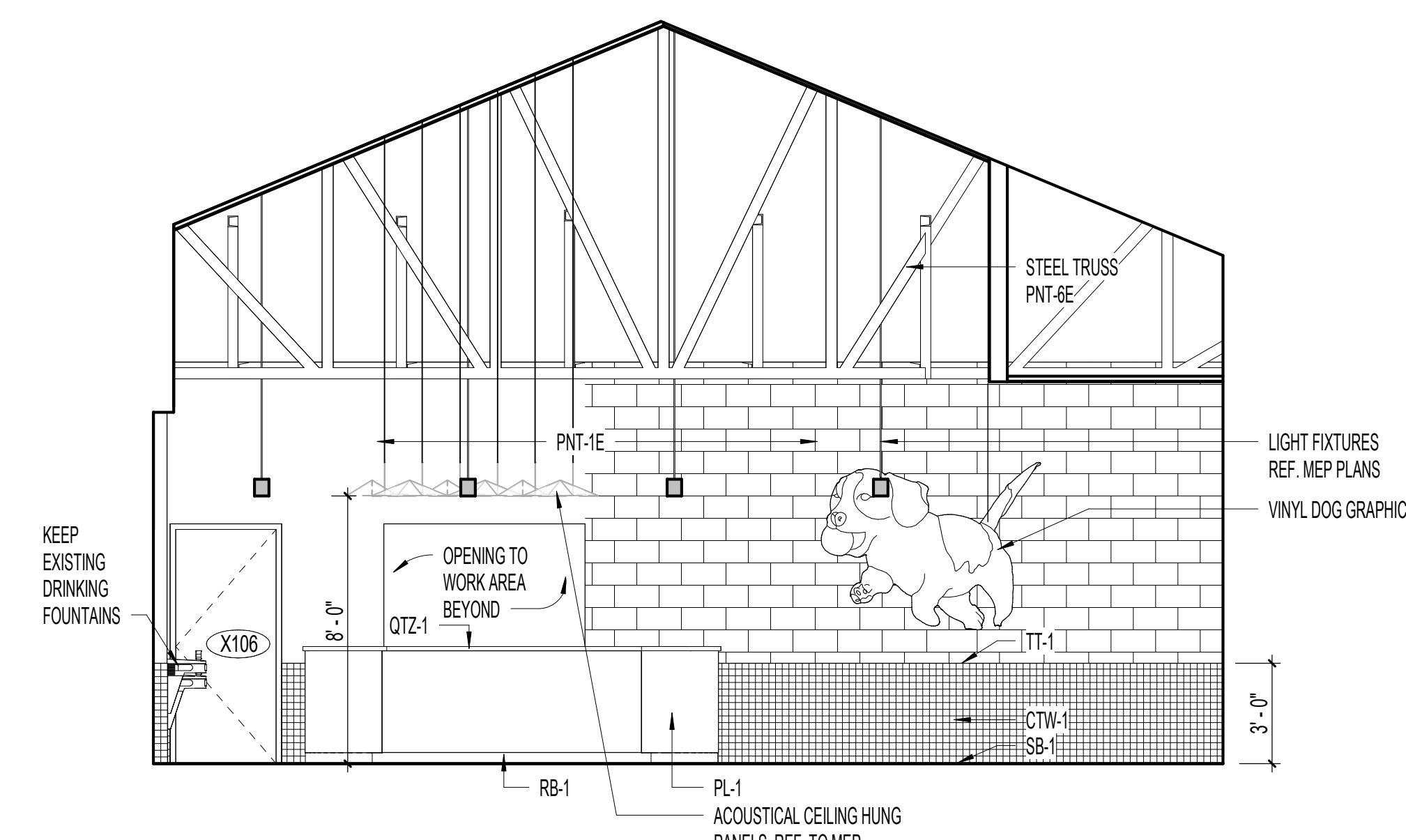
7 MEET & GREET 102A
1/4" = 1'-0"



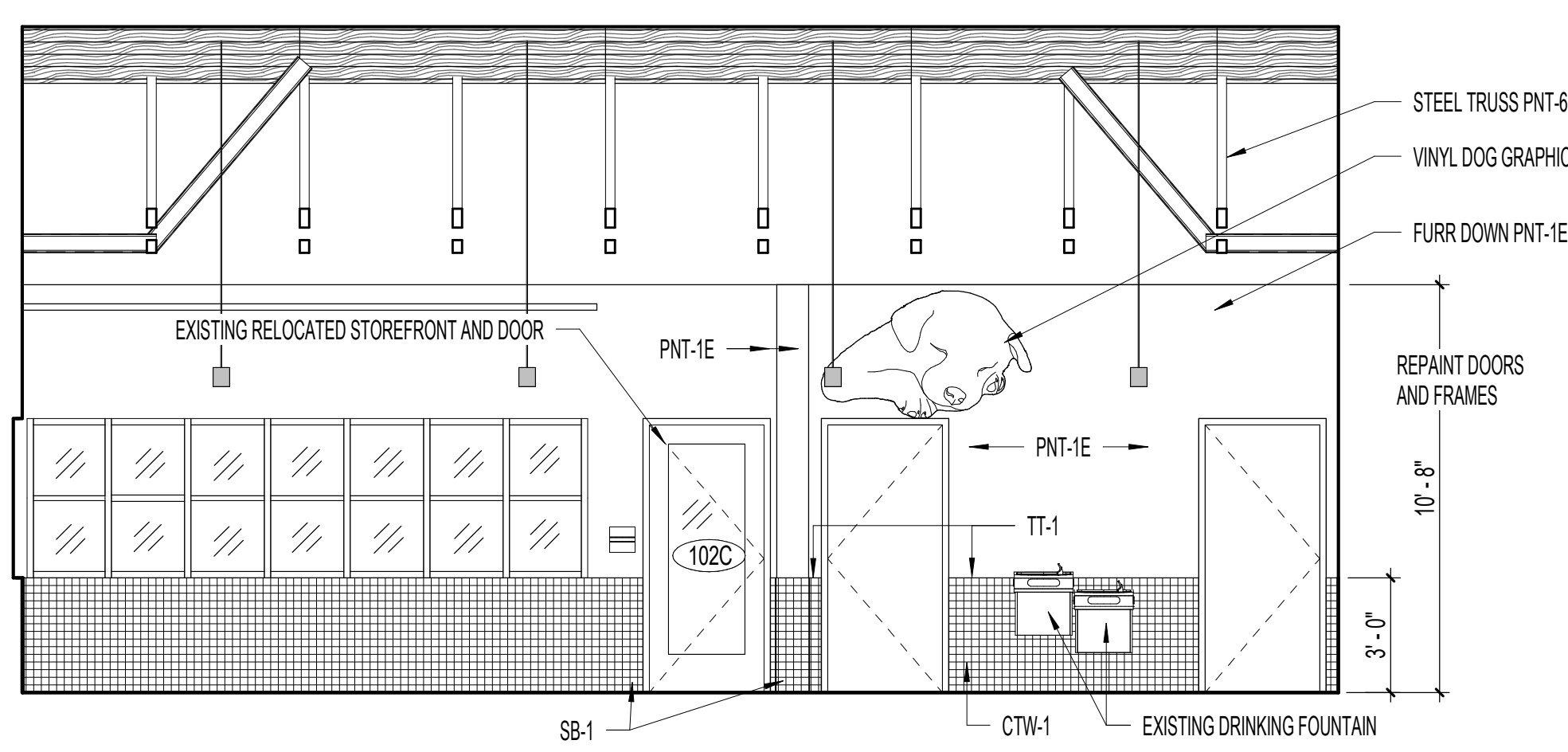
6 MEET & GREET 102A
1/4" = 1'-0"



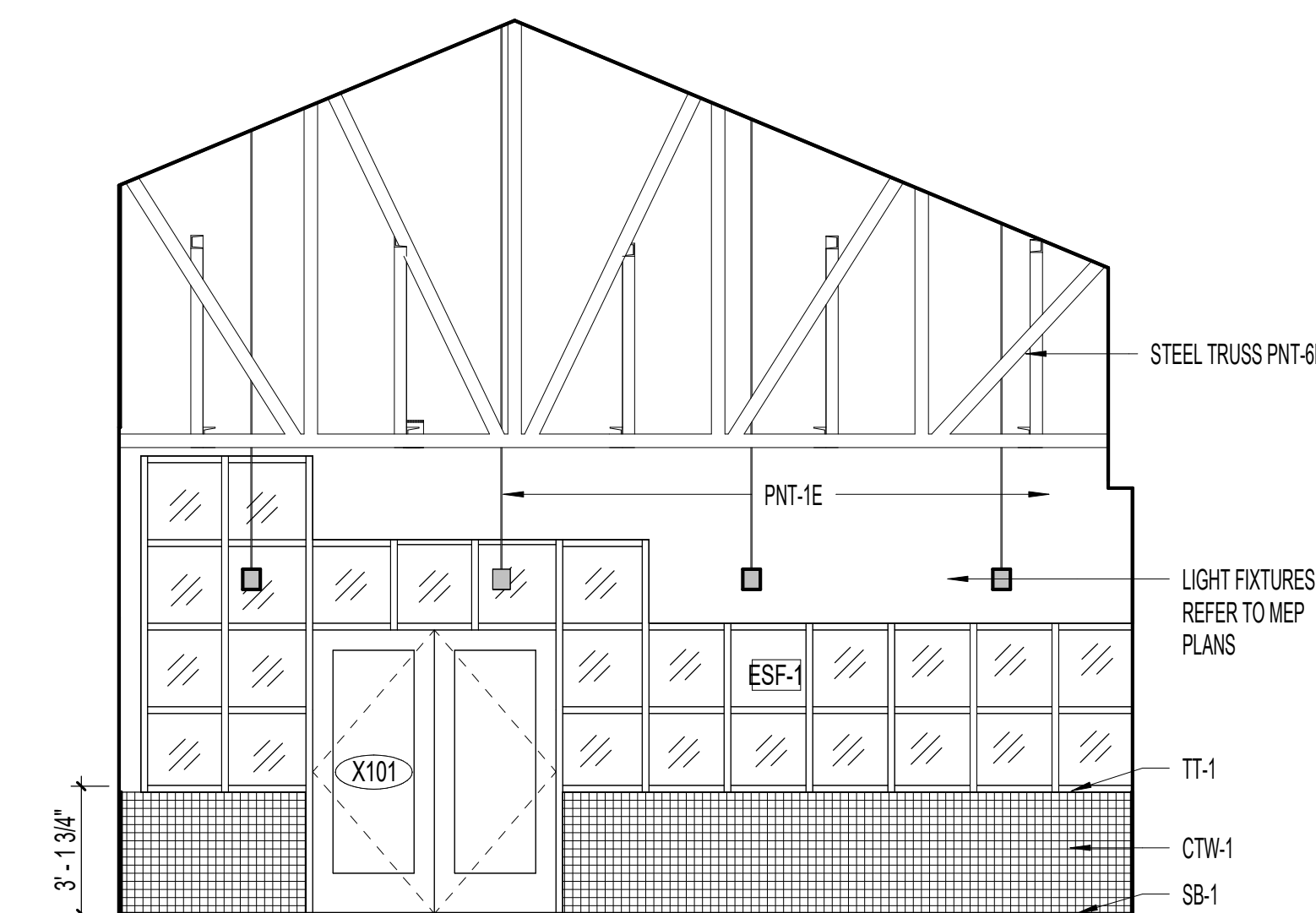
5 MEET & GREET 102A
1/4" = 1'-0"



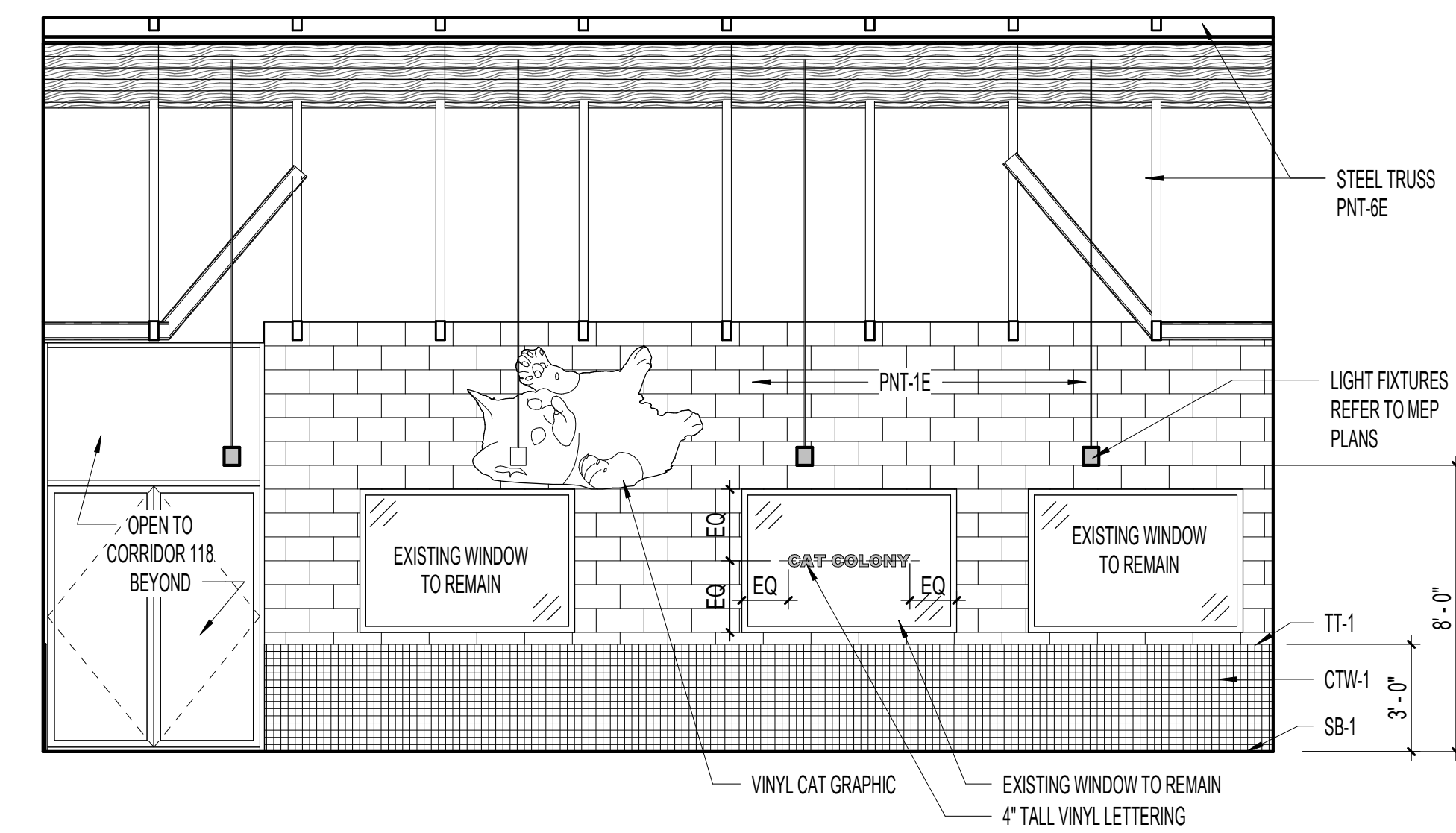
4 LOBBY 101
1/4" = 1'-0"



3 LOBBY 101
1/4" = 1'-0"



2 LOBBY 101
1/4" = 1'-0"



1 LOBBY 101
1/4" = 1'-0"

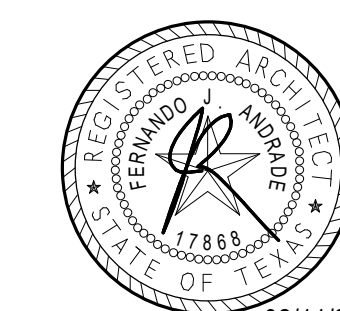
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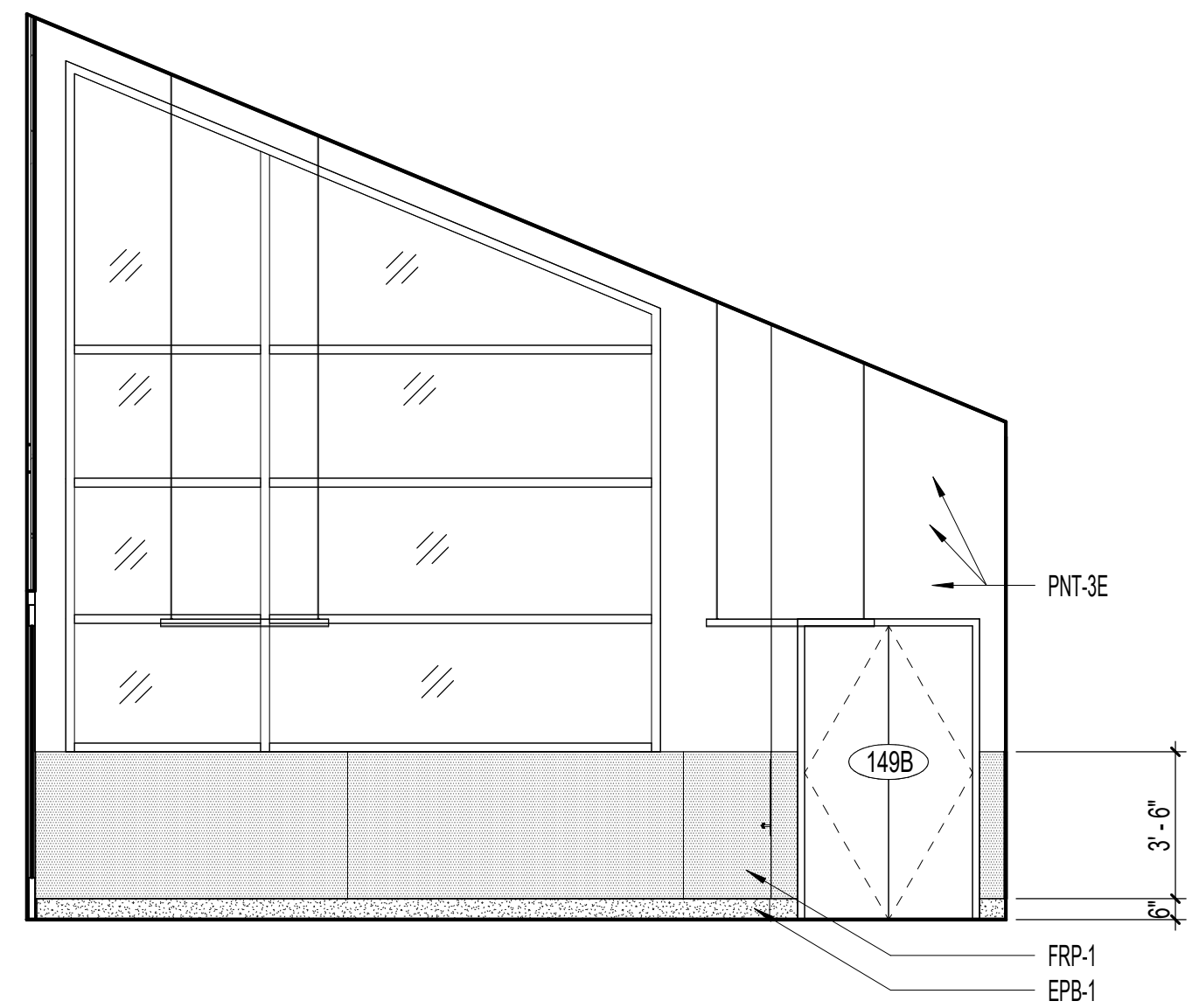
Revisions:

REV.	DATE	TITLE

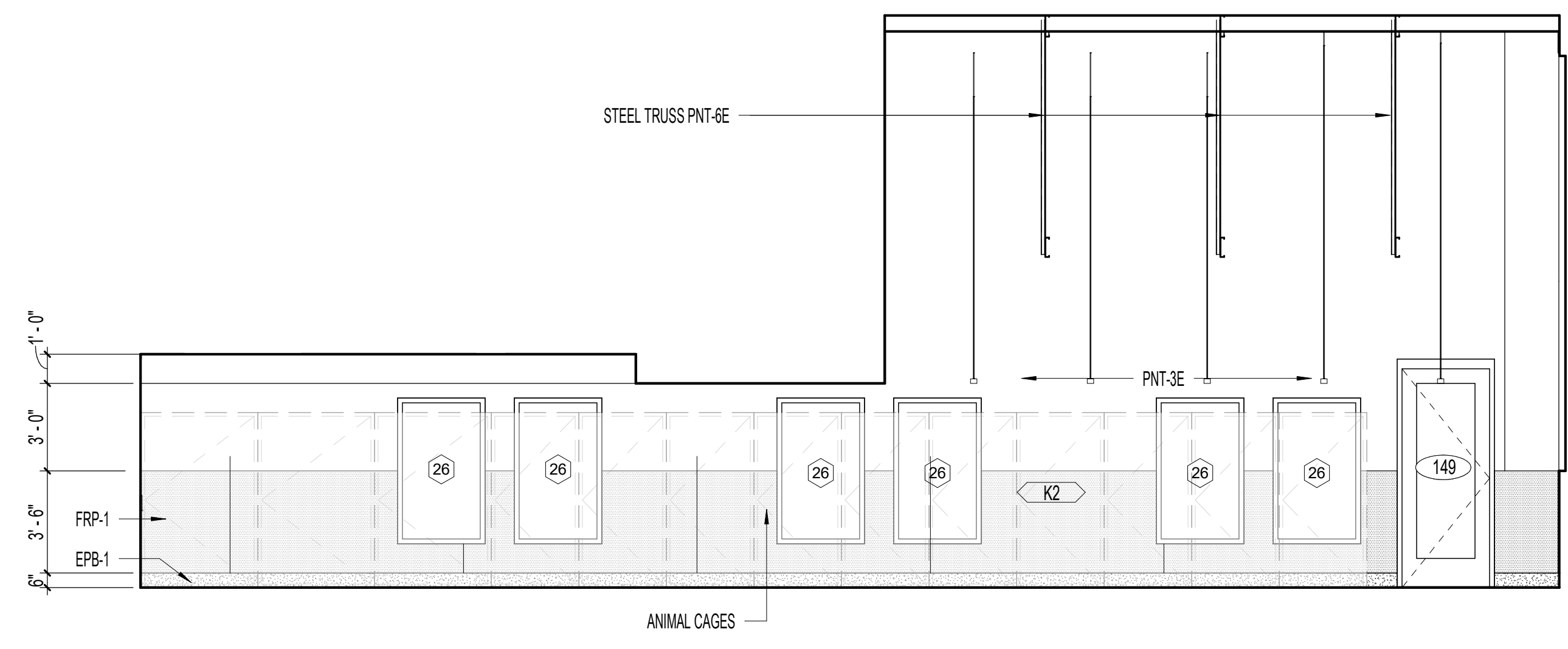
Date:
CONSTRUCTION DOCS
02-11-2022
Project No.
2942
Drawn By:
JG, OV
Checked By:
RG
Sheet Title:
INTERIOR ELEVATIONS

Drawing No.
A8.00

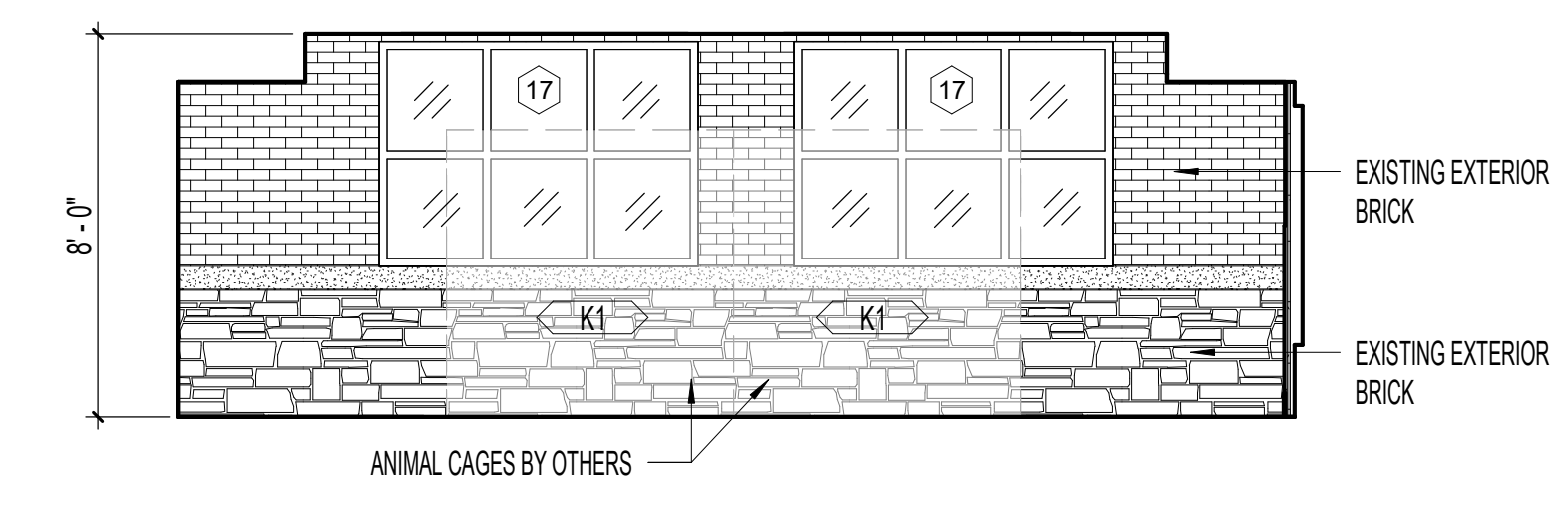
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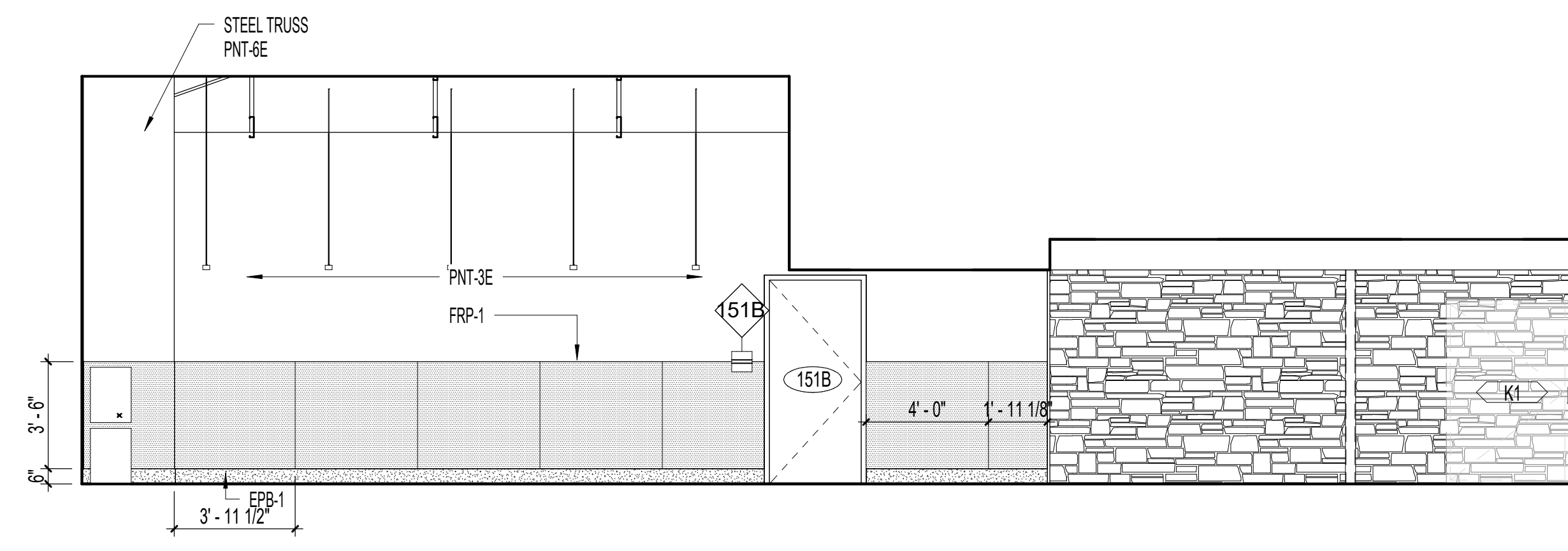
12 DOG ADOPTION 147
1/4" = 1'-0"



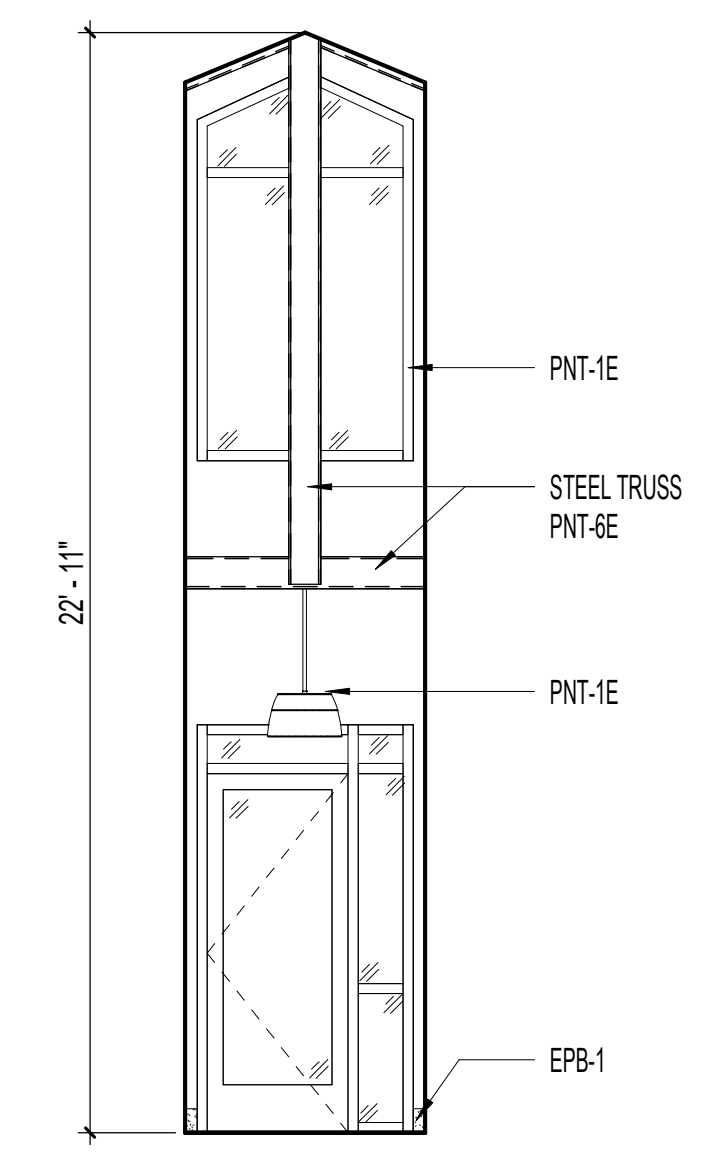
11 DOG ADOPTION 147
1/4" = 1'-0"



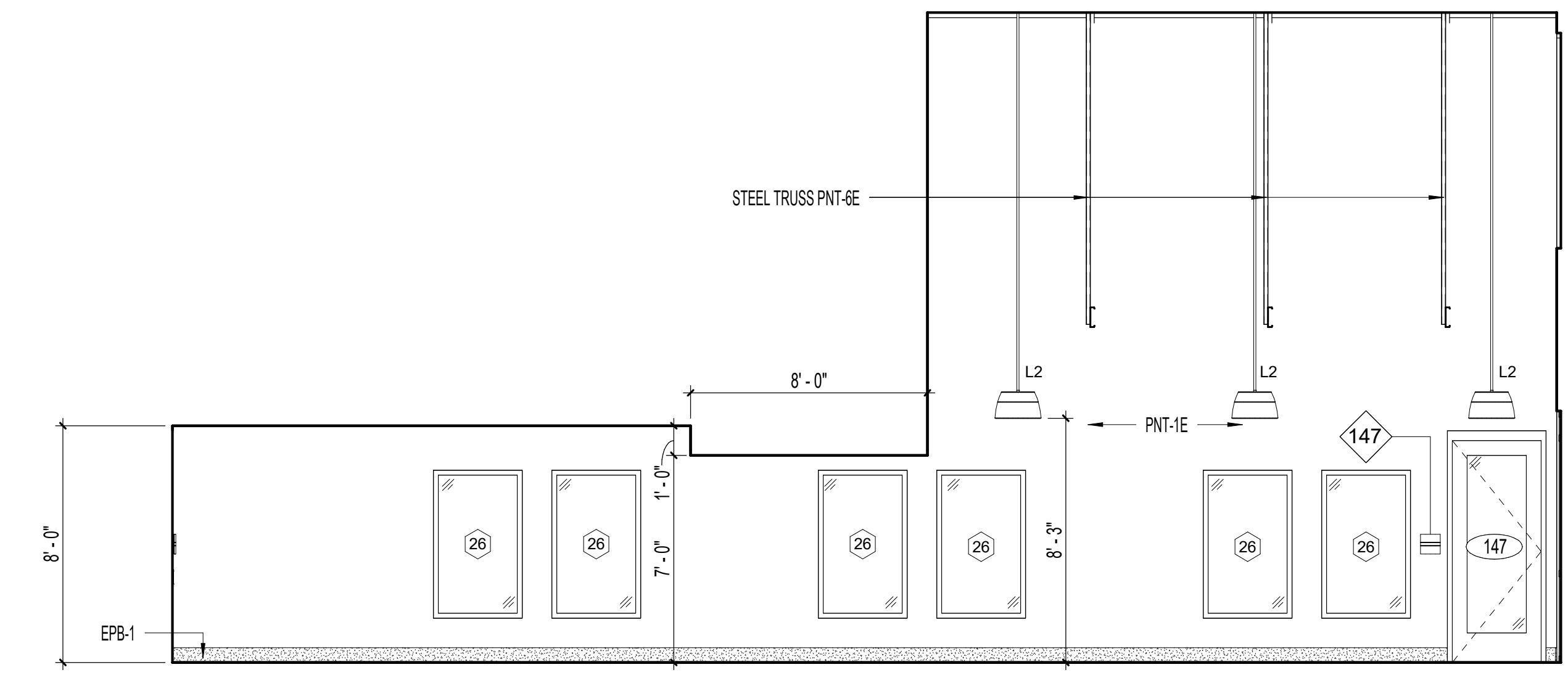
10 DOG ADOPTION 147
1/4" = 1'-0"



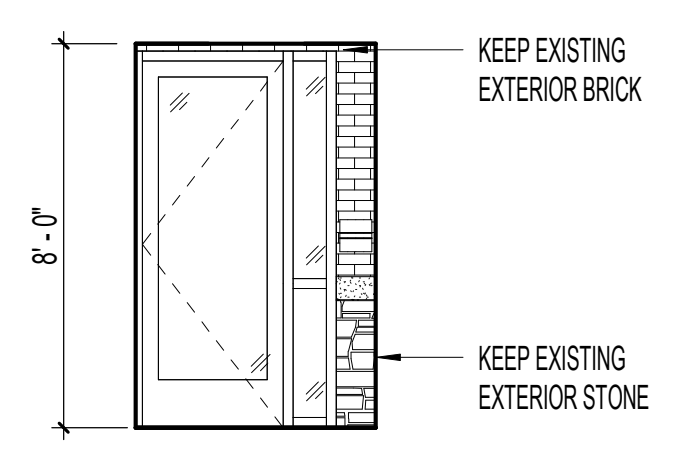
9 DOG ADOPTION 147
1/4" = 1'-0"



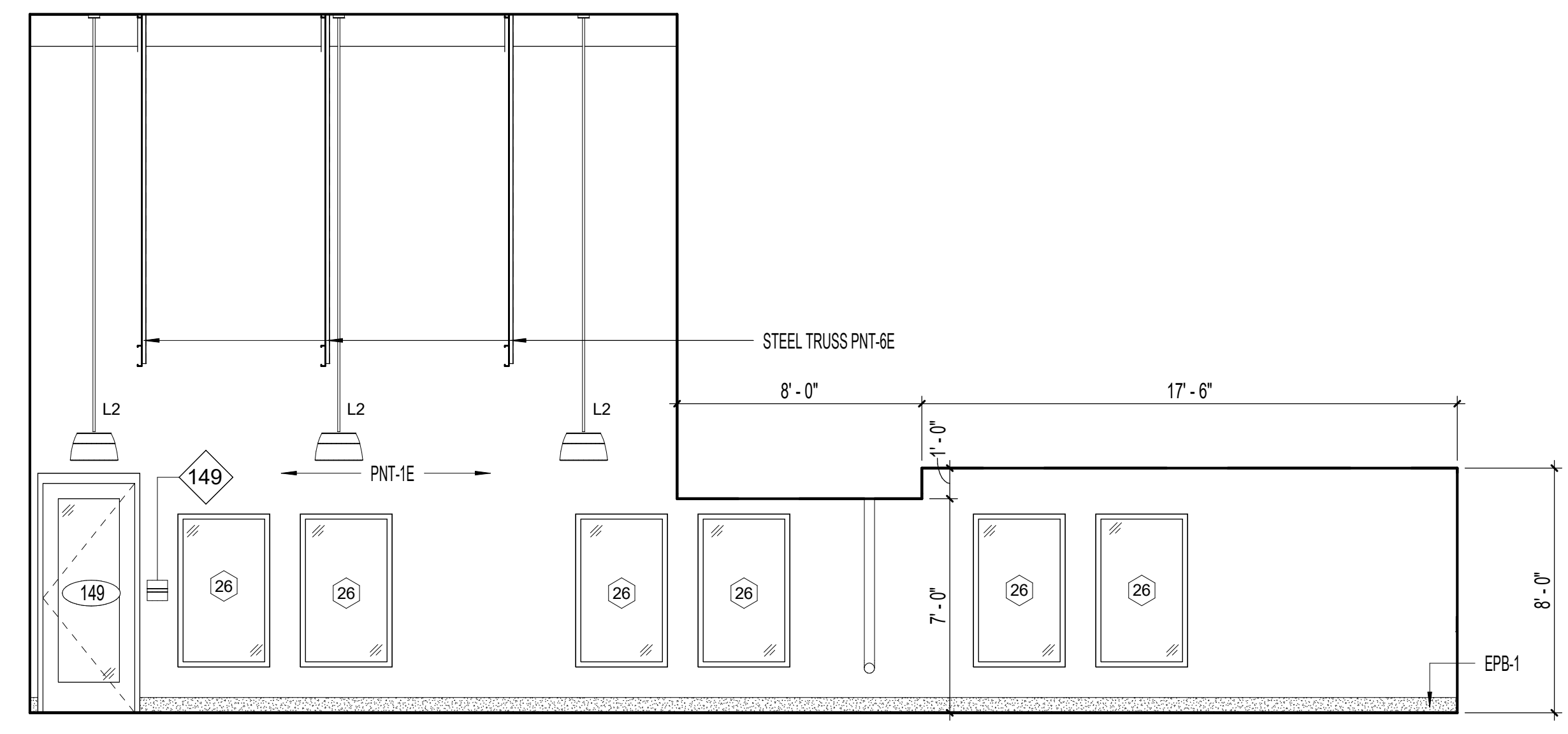
8 NEW CORRIDOR 148
1/4" = 1'-0"



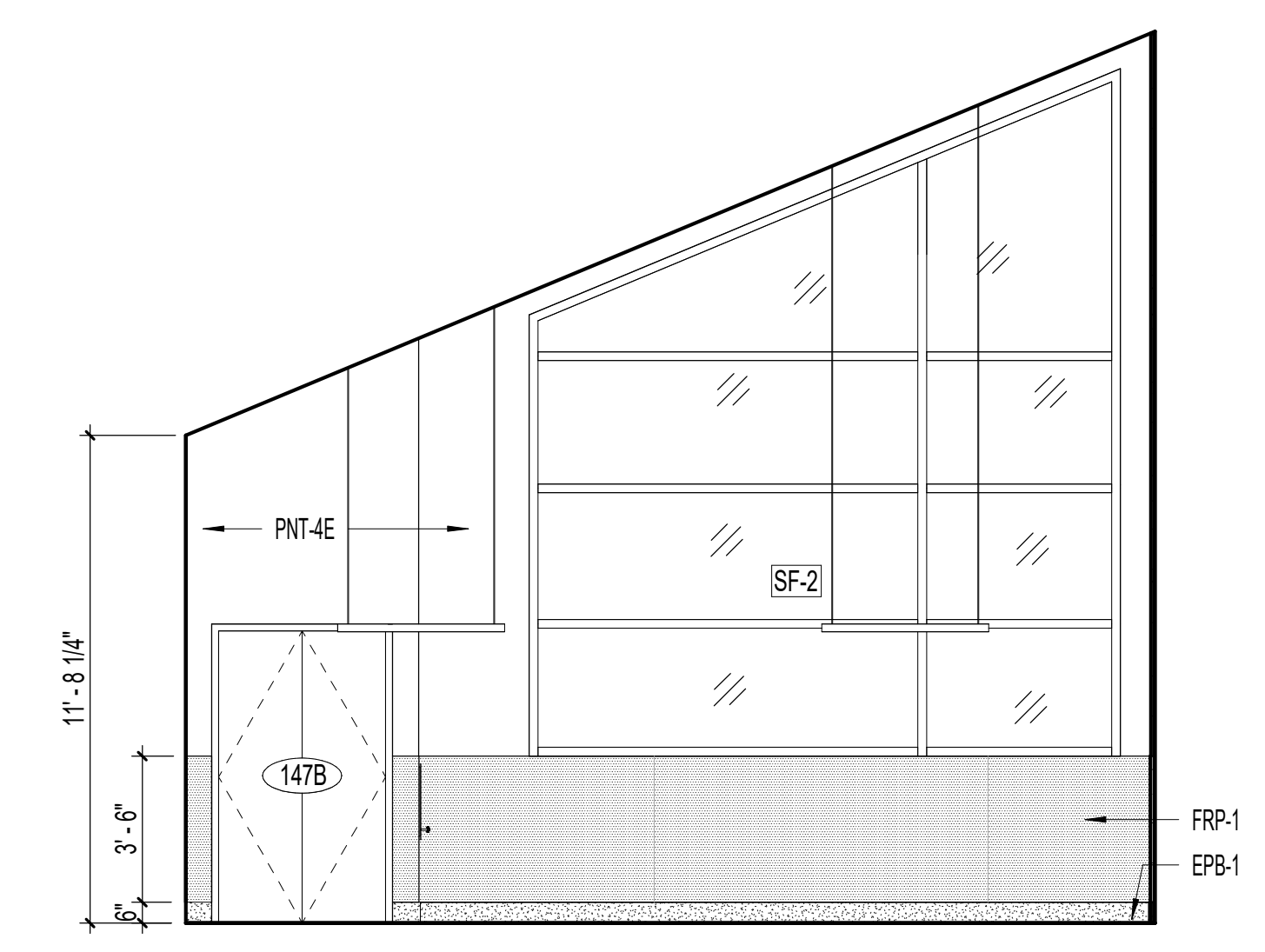
7 NEW CORRIDOR 148
1/4" = 1'-0"



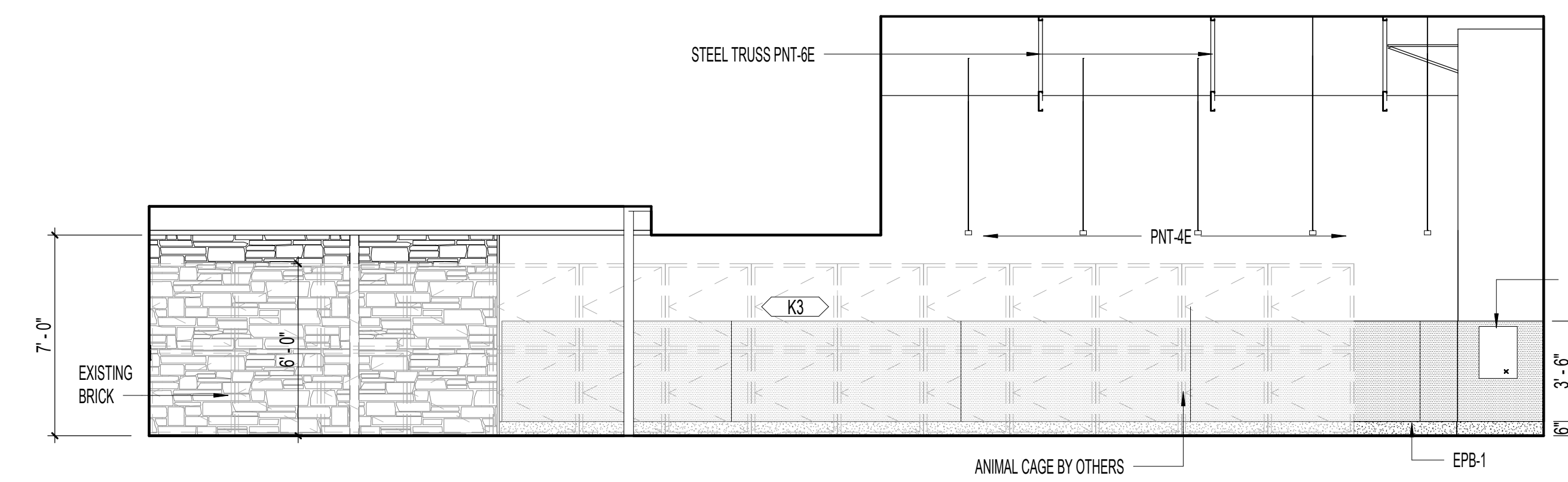
6 NEW CORRIDOR 148
1/4" = 1'-0"



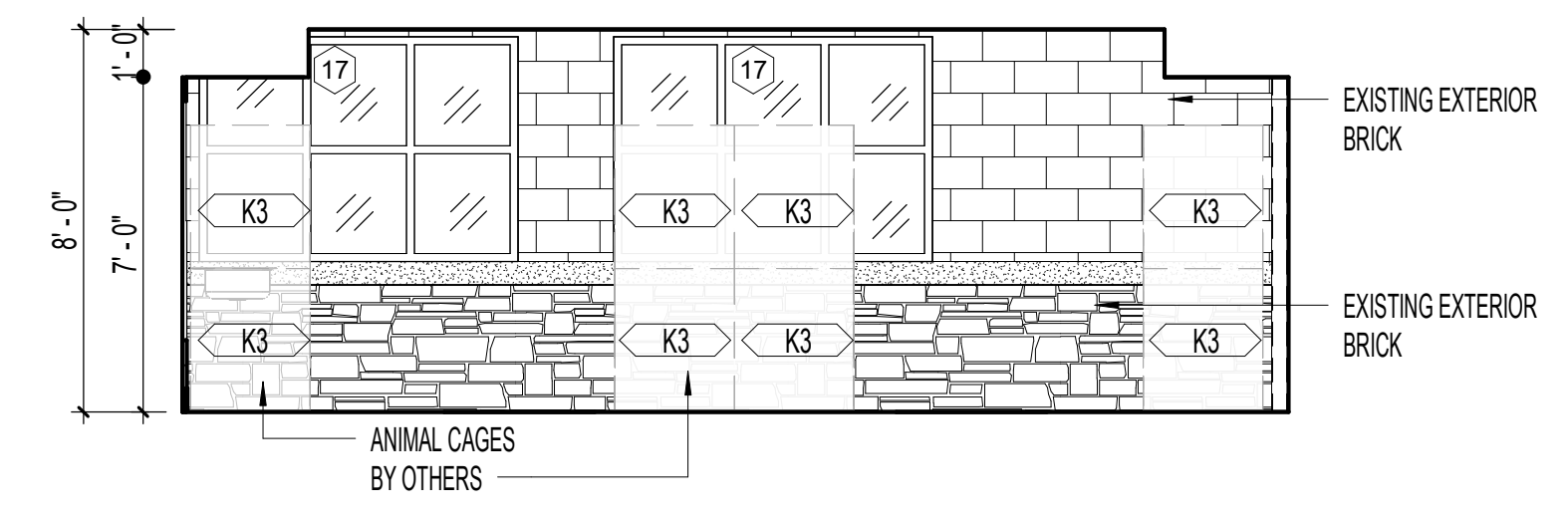
5 NEW CORRIDOR 148
1/4" = 1'-0"



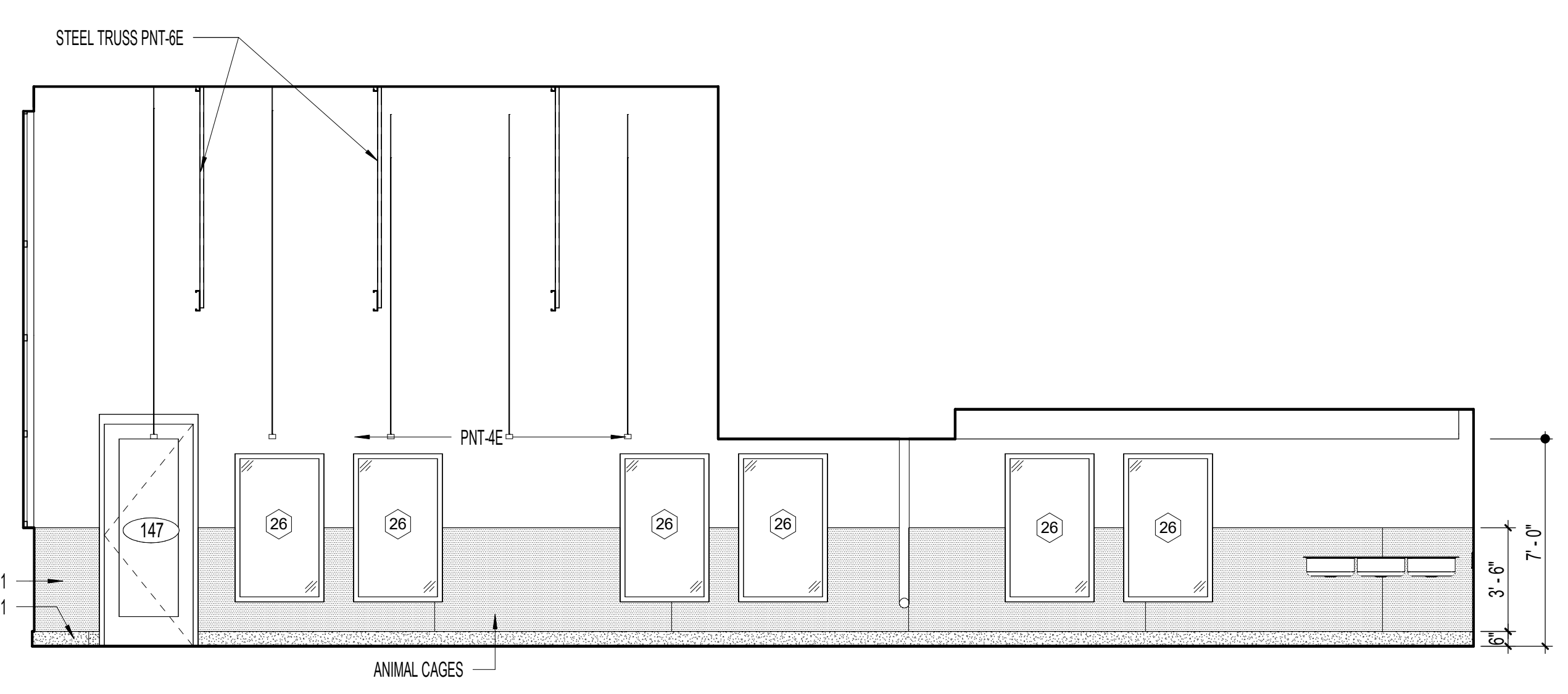
4 CAT ADOPTION 145
1/4" = 1'-0"



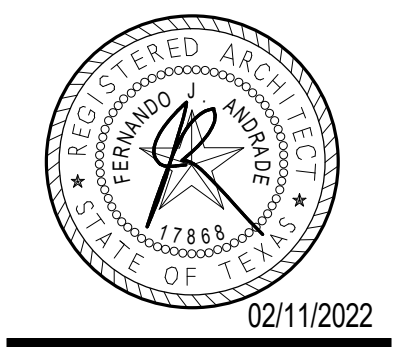
3 CAT ADOPTION 145
1/4" = 1'-0"



2 CAT ADOPTION 145
1/4" = 1'-0"



1 CAT ADOPTION 145
1/4" = 1'-0"



Revisions:

REV.	DATE	TITLE

Date:
CONSTRUCTION DOCS
02-11-2022
Project No.
2942
Drawn By:
JG, OV
Checked By:
RG
Sheet Title:
INTERIOR ELEVATIONS
Drawing No.

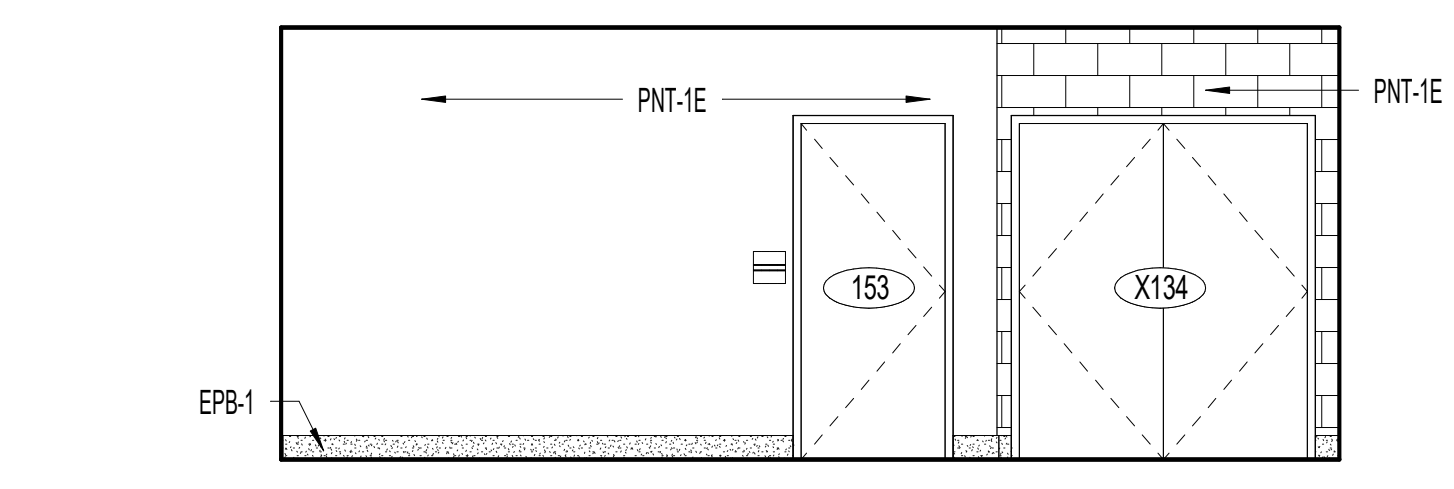


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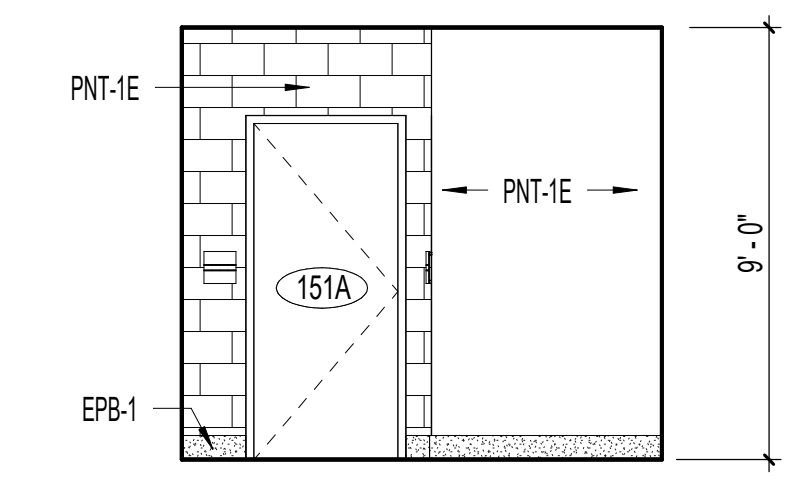
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 02-11-2022
 Project No.
 2942
 Drawn By:
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 Checker
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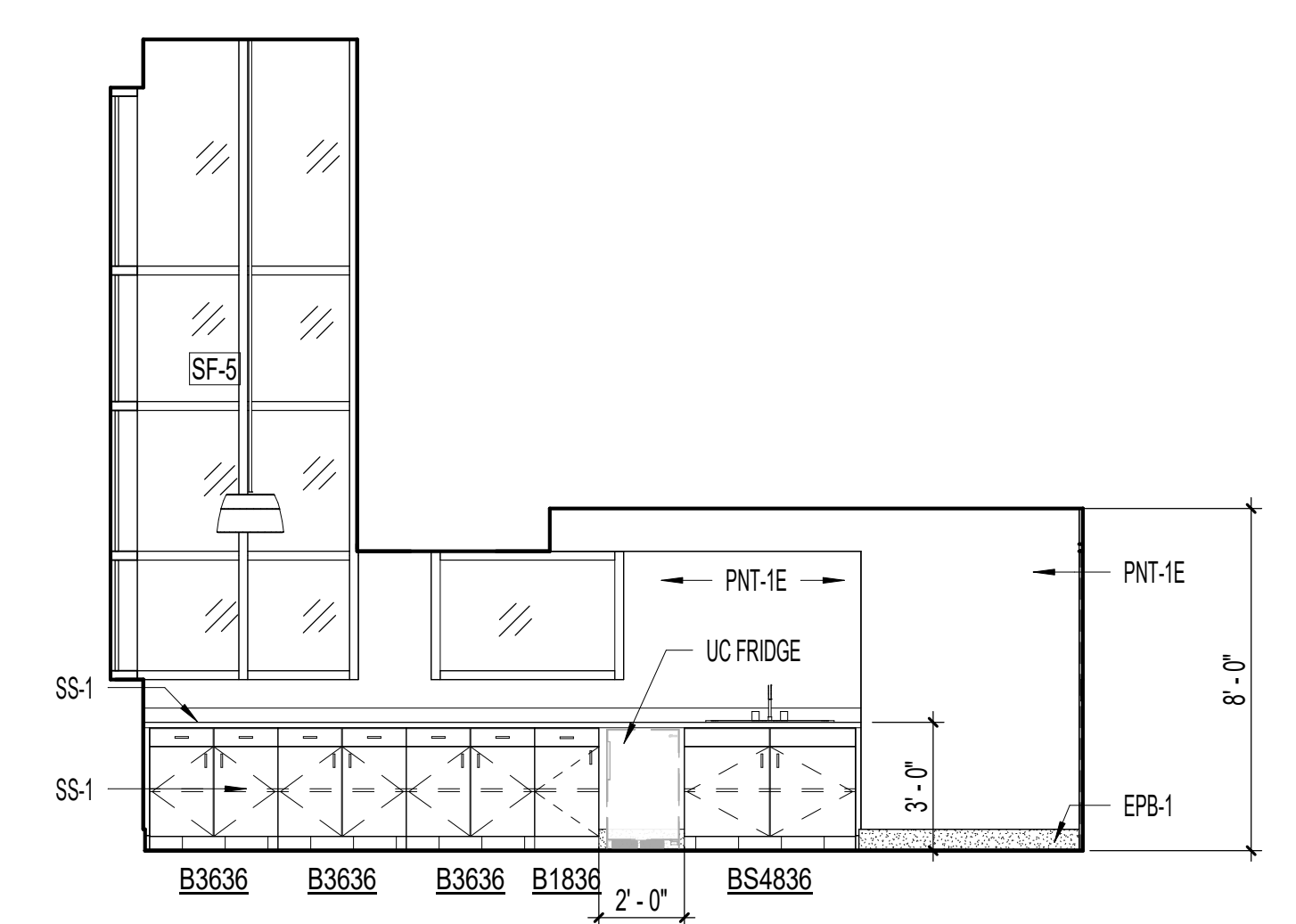
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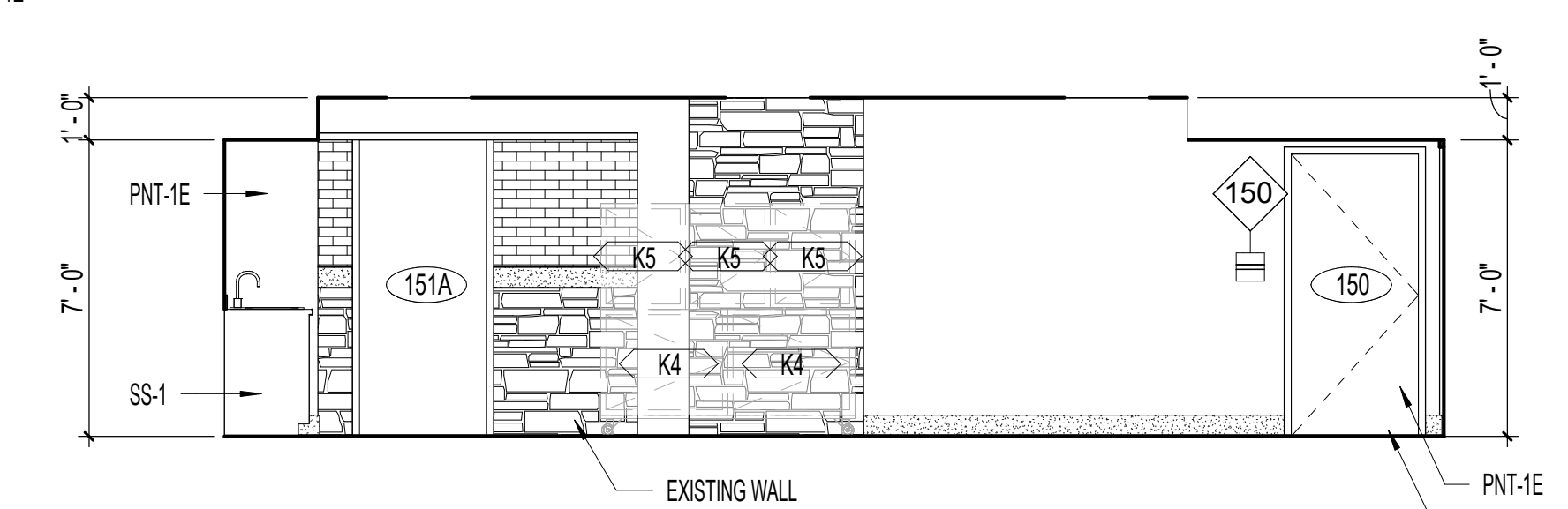
5 FOOD STORAGE 133
 1/4" = 1'-0"



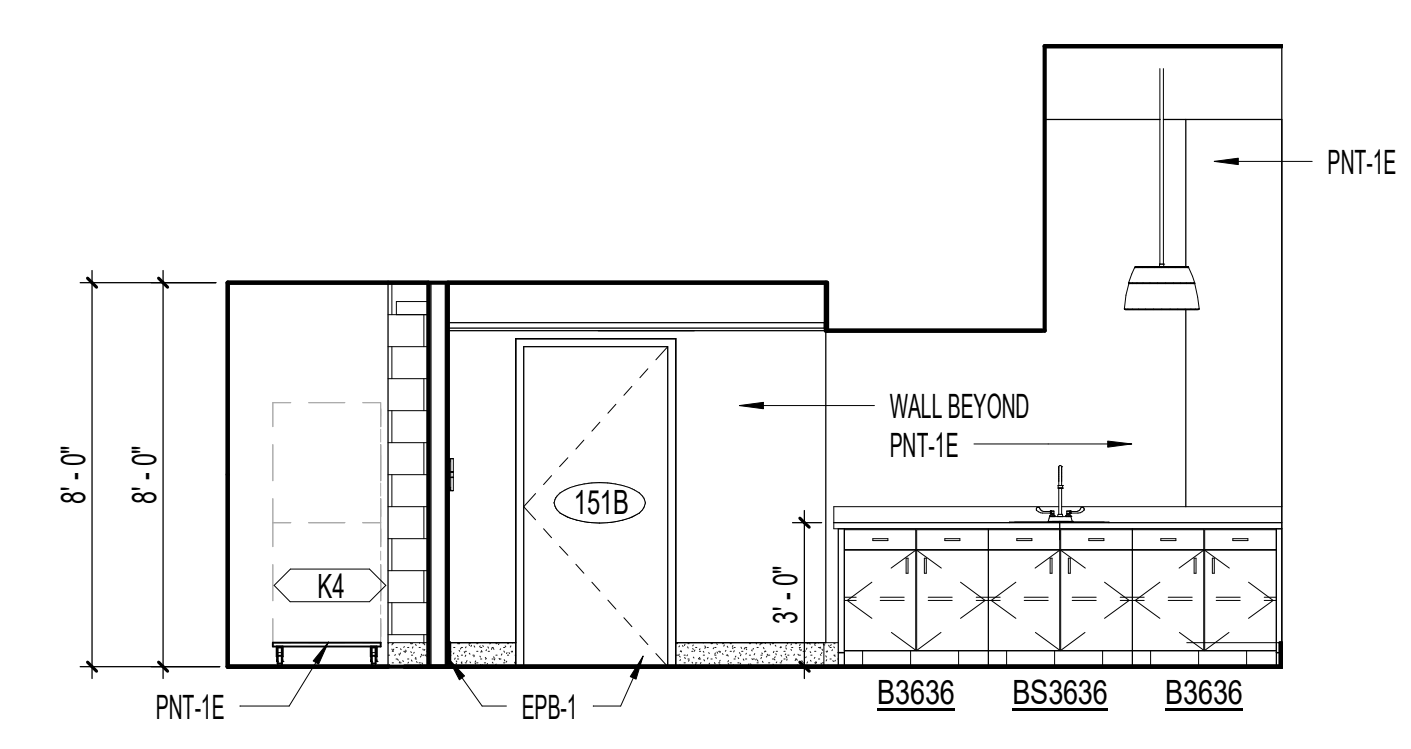
6 FOOD STORAGE 133
 1/4" = 1'-0"



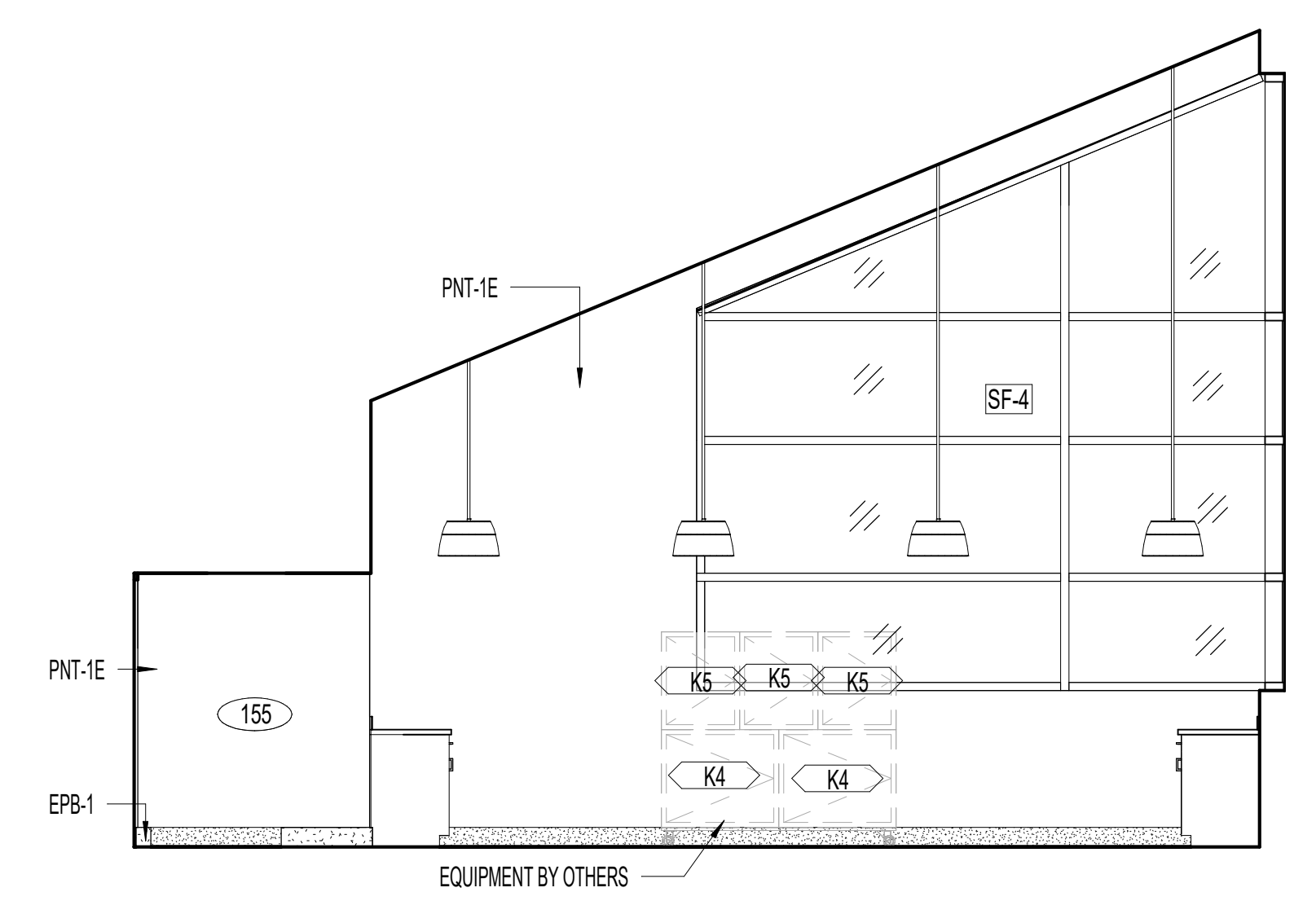
1 TREATMENT/LAB 151
 1/4" = 1'-0"



2 TREATMENT/LAB 151
 1/4" = 1'-0"

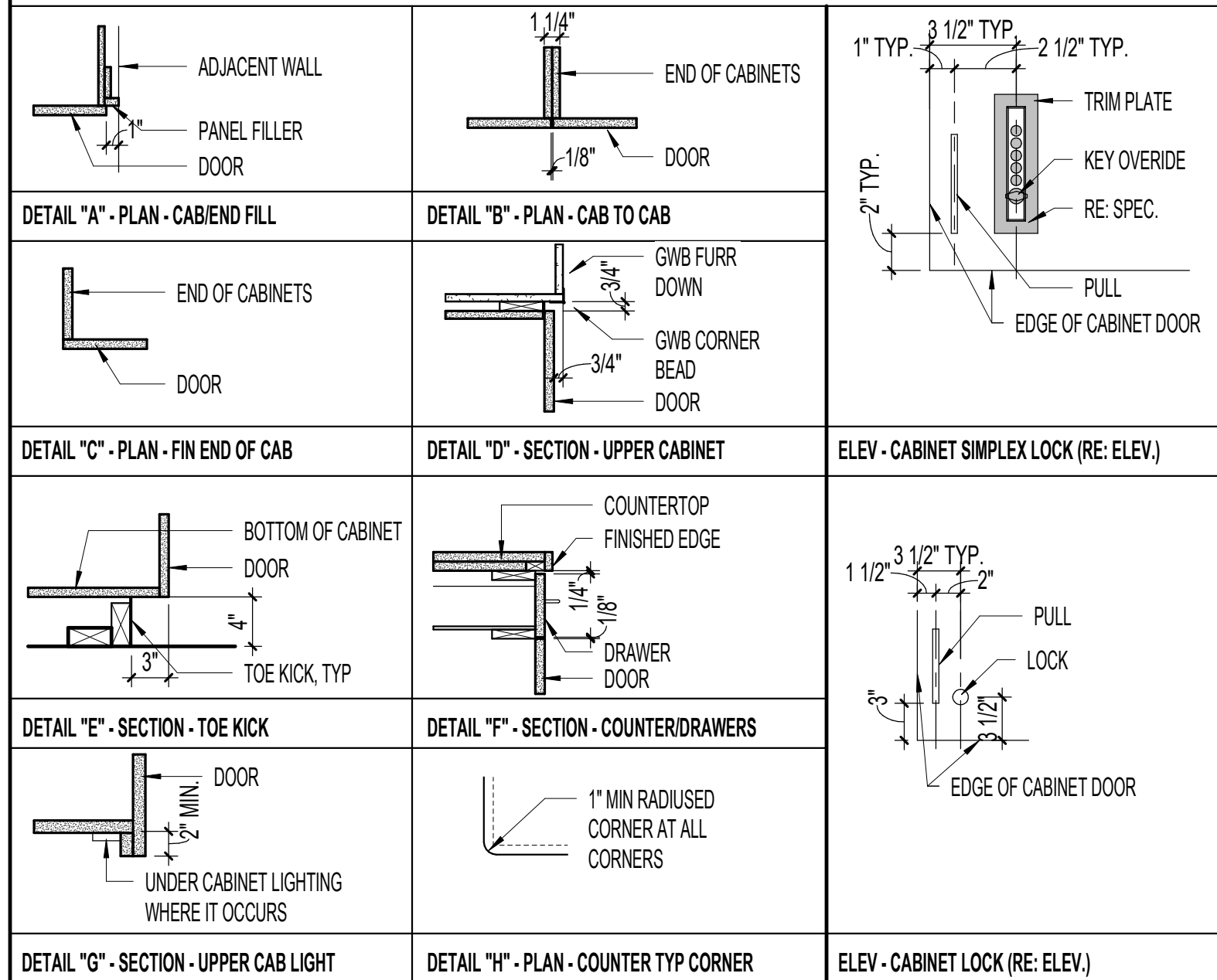


3 TREATMENT/LAB 151
 1/4" = 1'-0"



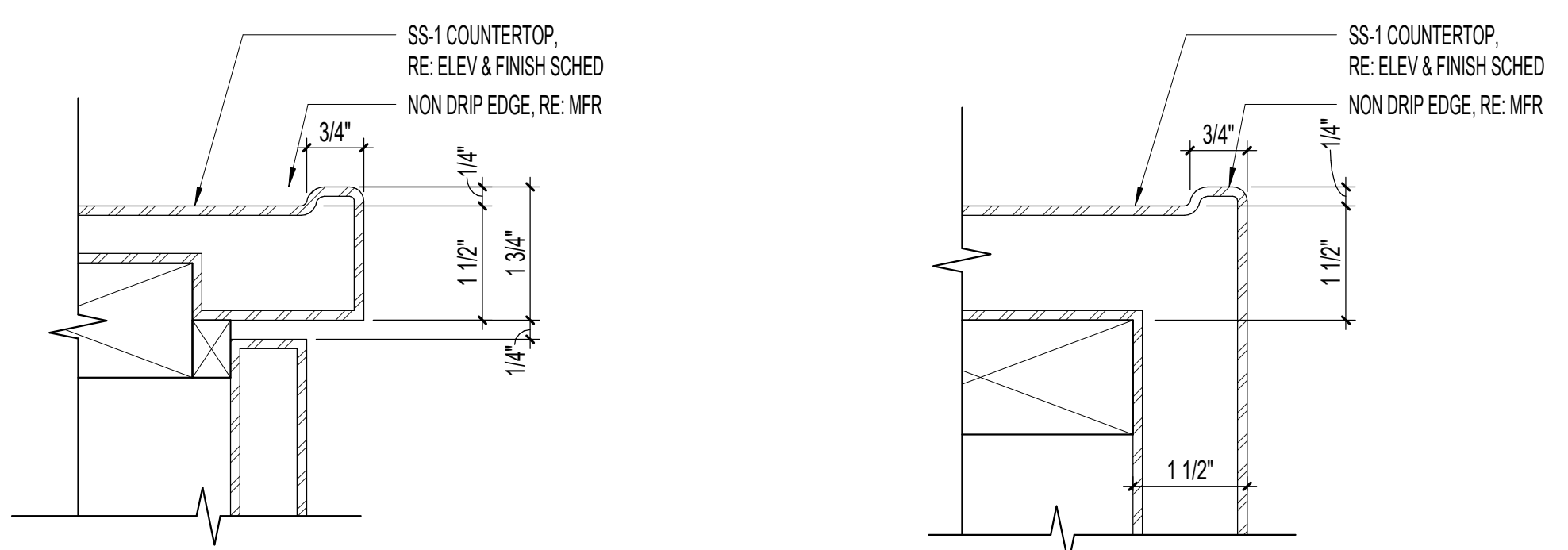
4 TREATMENT/LAB 151
 1/4" = 1'-0"

CASEWORK DETAILS - STAINLESS STEEL



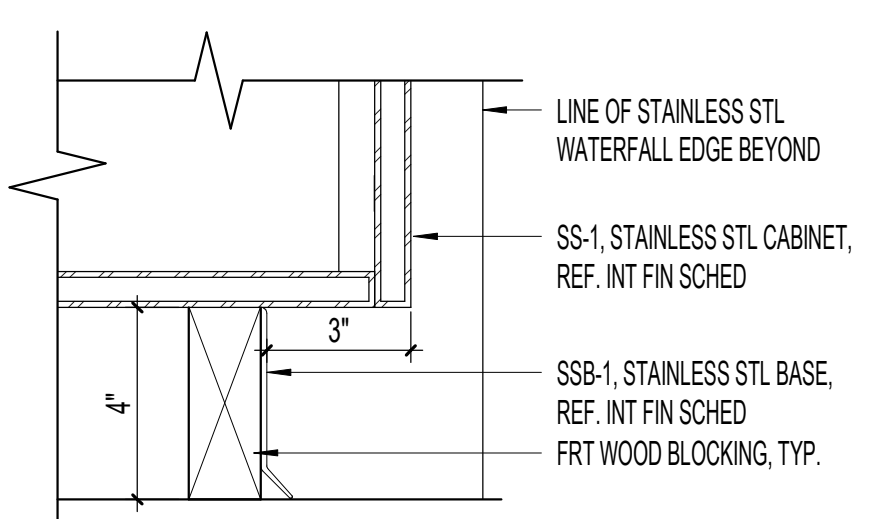
MILLWORK/CASEWORK/CABINERY GENERAL NOTES

- THE FOLLOWING NOTES REFER TO MILLWORK, CASEWORK, AND CABINERY IN GENERAL.
- MILLWORK/CASEWORK/CABINERY SHALL BE AWI CUSTOM GRADE, FLUSH OVERLAY, UNLESS NOTED OTHERWISE (UNO).
- WOOD MILLWORK/CASEWORK/CABINERY WITH TRANSPARENT FINISH SHALL BE AWI PREMIUM GRADE, FLUSH OVERLAY UNO.
- WOOD MILLWORK/CASEWORK/CABINERY OPAQUE FINISH SHALL BE AWI CUSTOM GRADE, FLUSH OVERLAY UNO.
- CABINET SIZES AND FINISHES SHALL BE AS INDICATED ON THE INTERIOR ELEVATIONS AND DETAILS. CONTRACTOR TO VERIFY ALL CONDITIONS AND DIMENSIONS, AND COORDINATE THE PLACEMENT AND INSTALLATION REQUIREMENTS OF ALL EQUIPMENT, PRIOR TO FABRICATION AND CONSTRUCTION OF CABINETS. NOTIFY ARCHITECT IN EVENT OF CONFLICT OR DISCREPANCY.
- CONTRACTOR SHALL VERIFY AND COORDINATE CLEAR DIMENSIONS REQUIRED FOR OWNER-FURNISHED EQUIPMENT WHICH IS TO BE INSTALLED WITHIN OR ADJACENT TO MILLWORK/CASEWORK/CABINERY.
- MILLWORK/CASEWORK/CABINERY MANUFACTURER AND INSTALLER SHALL COORDINATE WITH APPROPRIATE SUBCONTRACTORS AND SUPPLIERS, TO ENSURE COMPLETE AND PROPER INSTALLATION OF SINKS AND ASSOCIATED PLUMBING FITTINGS, ELECTRICAL RECEPTACLES, LIGHT FIXTURES, SWITCHES, COMMUNICATIONS AND DATA OUTLETS, ETC., WITHIN THE CASEWORK.
- ALL MILLWORK/CASEWORK/CABINERY EXPOSED TO VIEW SHALL BE FINISHED AS SCHEDULED AND AS INDICATED ON INTERIOR ELEVATIONS.
- INTERIOR FINISHES OF MILLWORK/CASEWORK/CABINERY COMPONENTS THAT ARE NOT EXPOSED TO VIEW SHALL BE WHITE THERMOSET PLASTIC LAMINATE (MELAMINE), UNO.
- PROVIDE FINISHED END PANELS AT BOTH ENDS OF CABINERY/MILLWORK/CASEWORK.
- ALL MILLWORK/CASEWORK/CABINERY END FILLER PANELS TO BE NO GREATER THAN 1" WIDE, UNO.
- WHERE CABINETS INTERSECT AT CORNER CONDITIONS, ONE CABINET SHALL BE MODIFIED TO EXTEND THROUGH THE DEAD CORNER CONDITIONS AND CLOSE TO THE VERTICAL WALL SURFACE BEYOND IN LINE WITH THE ADJACENT CABINET, TYPICAL FOR BASE AND UPPER CABINETS.
- WHERE FILLER SECTIONS ARE REQUIRED, DISTRIBUTE THE SECTIONS EVENLY, AND IN SUCH A WAY AS TO ENSURE PROPER OPERATION OF DRAWERS, DOORS, ETC. INSTALL FILLER SECTIONS TO BE FLUSH WITH CABINET DOORS AS INDICATED ON DETAILS.
- ALL EXPOSED SCREWS SHALL BE COUNTERSUNK AND TAMPER-RESISTANT.
- PROVIDE CONTINUOUS TOE SPACE BELOW MILLWORK/CASEWORK/CABINERY TO GENERALLY MATCH THE HEIGHT OF BASE PROVIDED IN ROOM, AS INDICATED ON INTERIOR ELEVATIONS. TOE SPACE IS INDICATED ON SECTIONS AND DETAILS.
- PROVIDE SCHEDULED BASE ALONG BOTTOM FACE OF EXPOSED TOE SPACE FRONTS, AND ALONG FINISHED FRONTS, BACKS, SIDES AND ENDS OF ALL FIXED CABINETS, CASEWORK, VERTICAL SUPPORTS, KNEE SPACES, ETC.
- PROVIDE CONTINUOUS SEALANT AT ALL JUNCTURES AND INTERSECTIONS WITH ADJOINING MATERIALS AND FIXTURES (SINKS, COUNTERTOPS, BASES, ADJOINING WALLS, ETC.) PROVIDE SEALANT, EVEN IF CONDITIONS ARE NOT VISIBLE.
- PROVIDE WALL BRACKET SUPPORTS AT 36" OC MAX, FOR CONTINUOUS KNEE SPACES.
- PROVIDE ONE (1) 2" DIAMETER GROMMET AT BACK OF WORKTOP COUNTERTOPS FOR EVERY 3'-0" OF INDIVIDUAL WORKSTATION, AND ONE (1) FOR EVERY 4'-0" OF CONTINUOUS KNEE SPACE. PROVIDE GROMMET COLOR TO MATCH COMPLIMENT COUNTERTOP COLOR, AS APPROVED BY ARCHITECT.
- SHELVING SPANNING 36" TO 48" SHALL BE 1" THICK, IN LIEU OF STANDARD 3/4" THICKNESS.

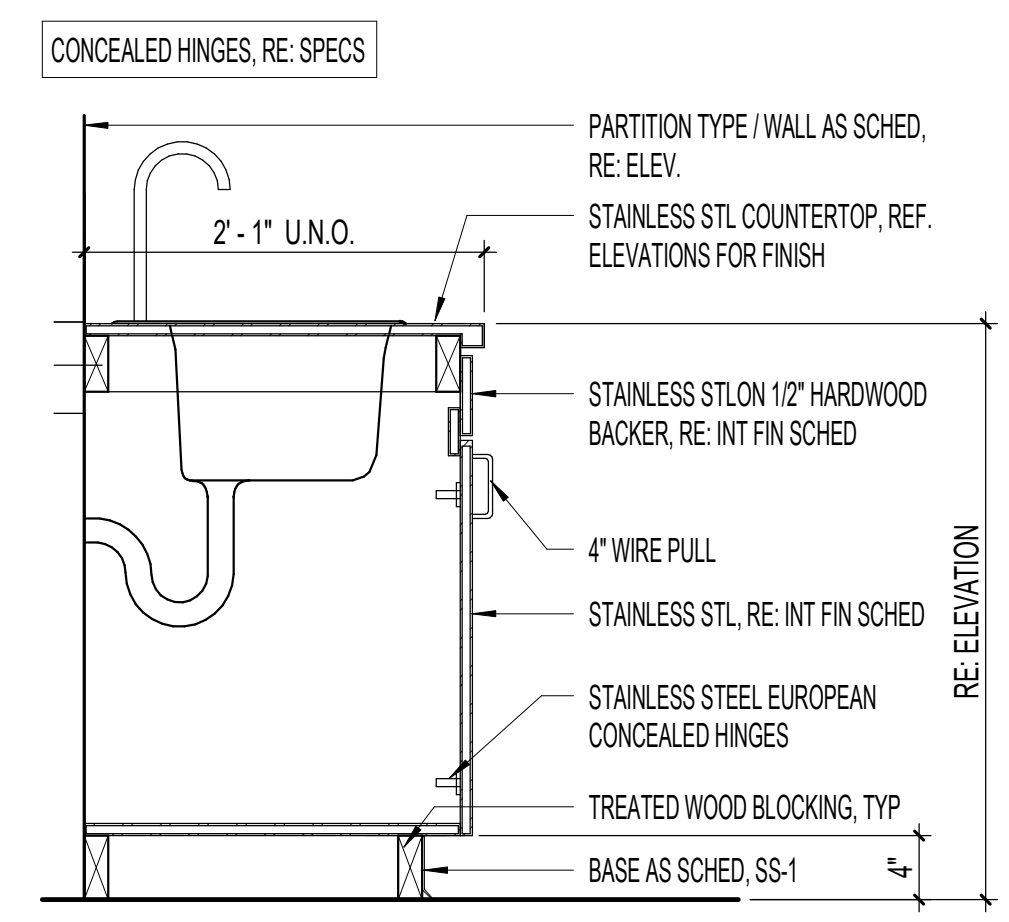


5 NON-DRIP EDGE - STAINLESS STL
6\"/>

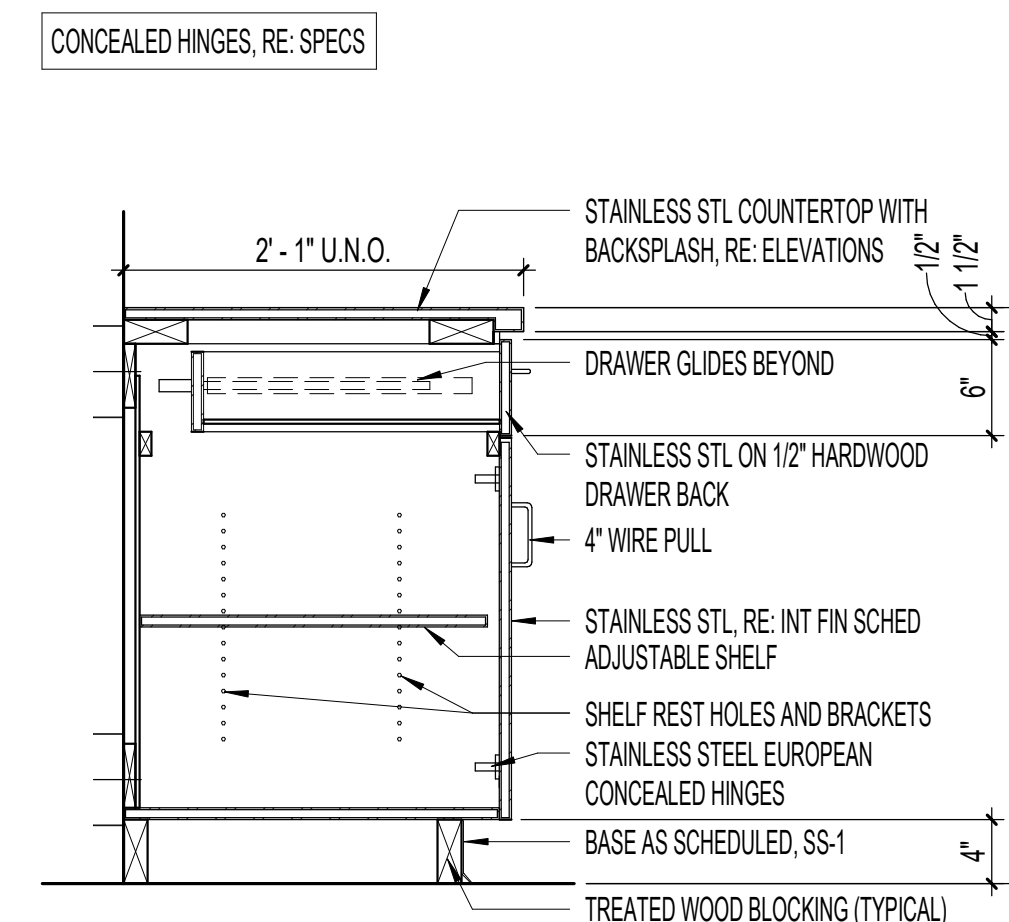
6 NON-DRIP WATERFALL EDGE
6\"/>



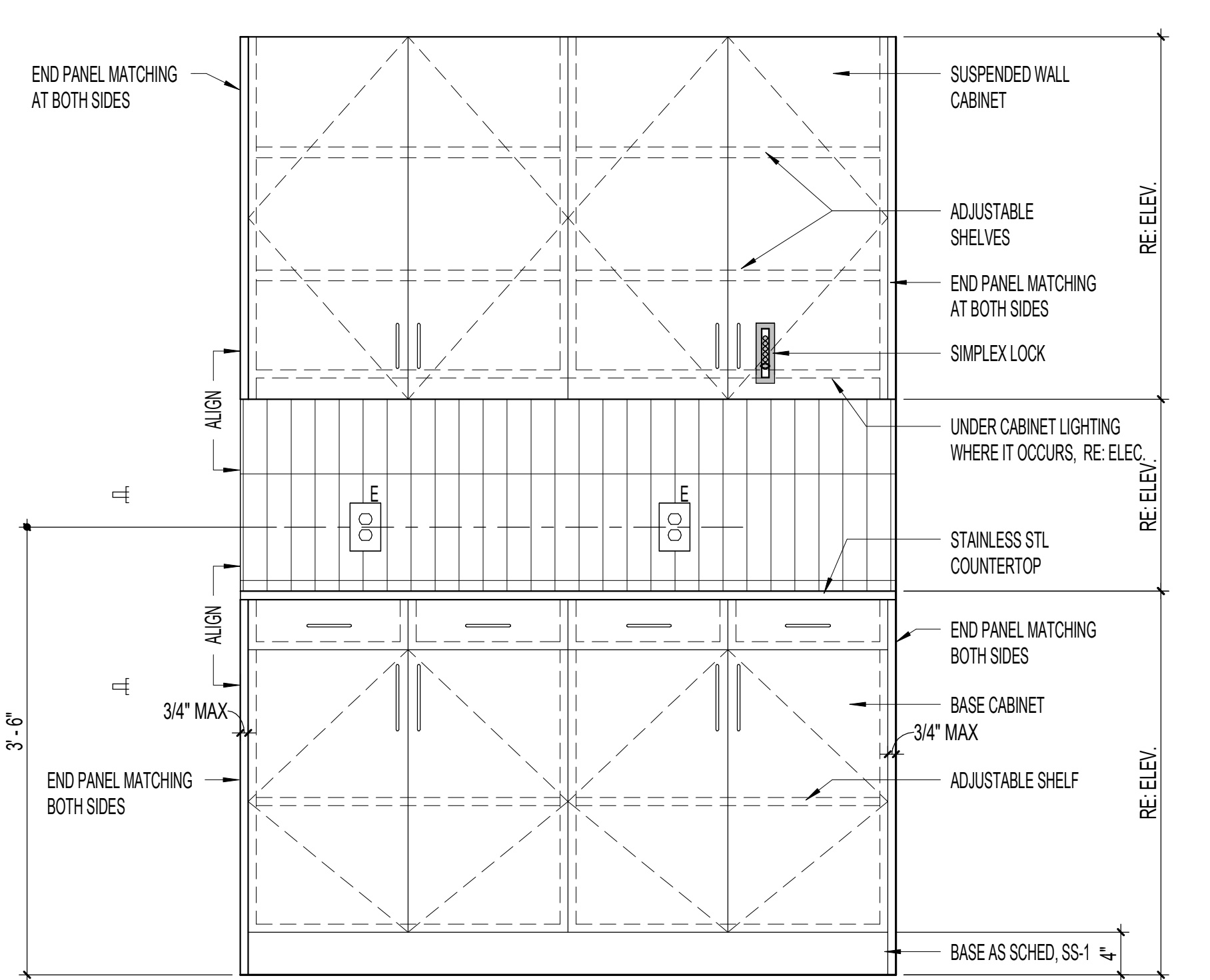
4 TOE KICK - STAINLESS STL
3\"/>



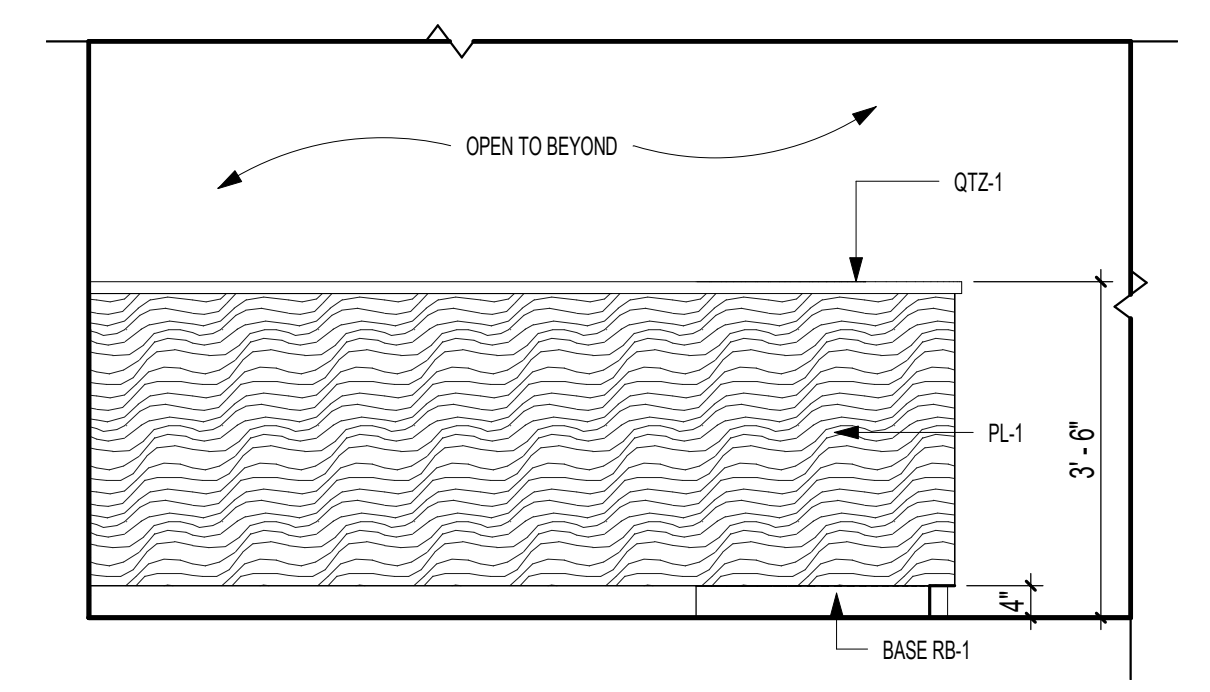
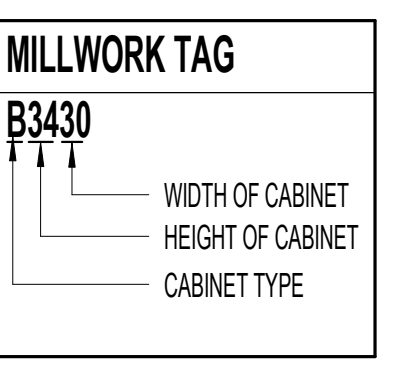
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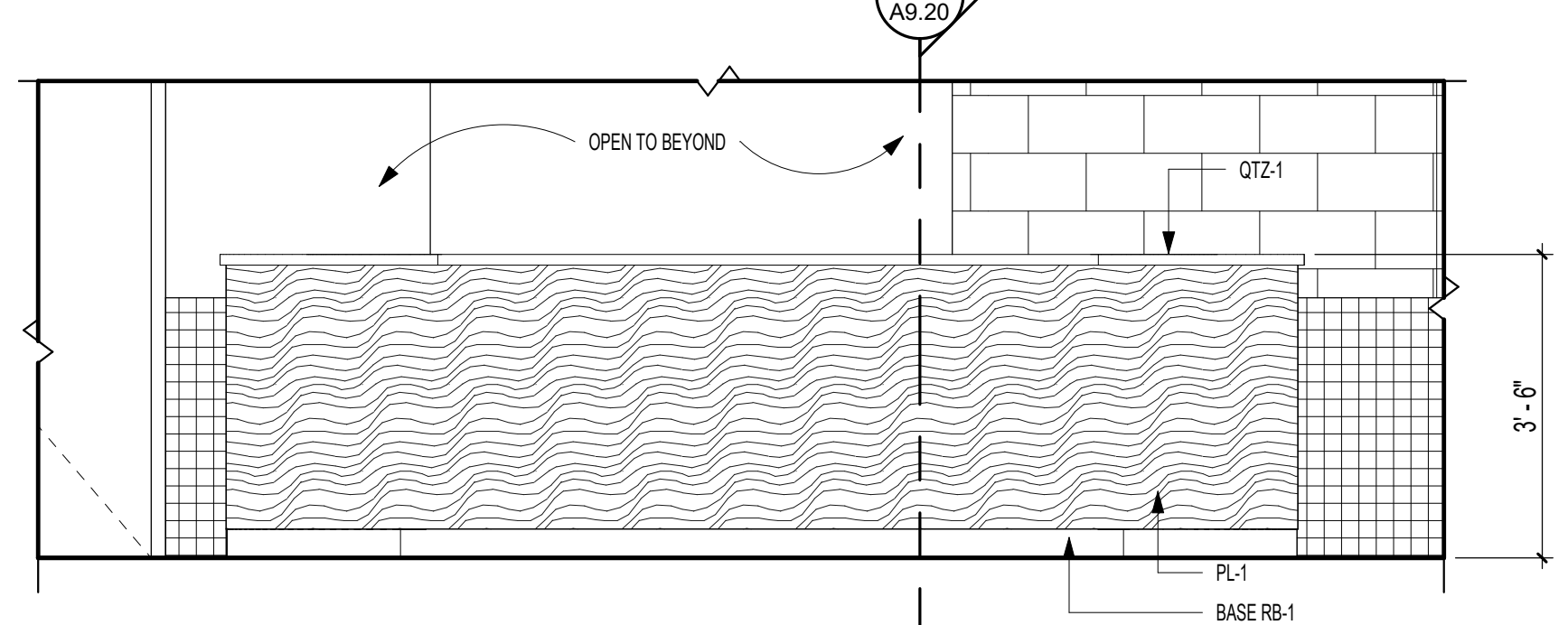
2 B - BASE DOOR/DRAWER - STAINLESS STL
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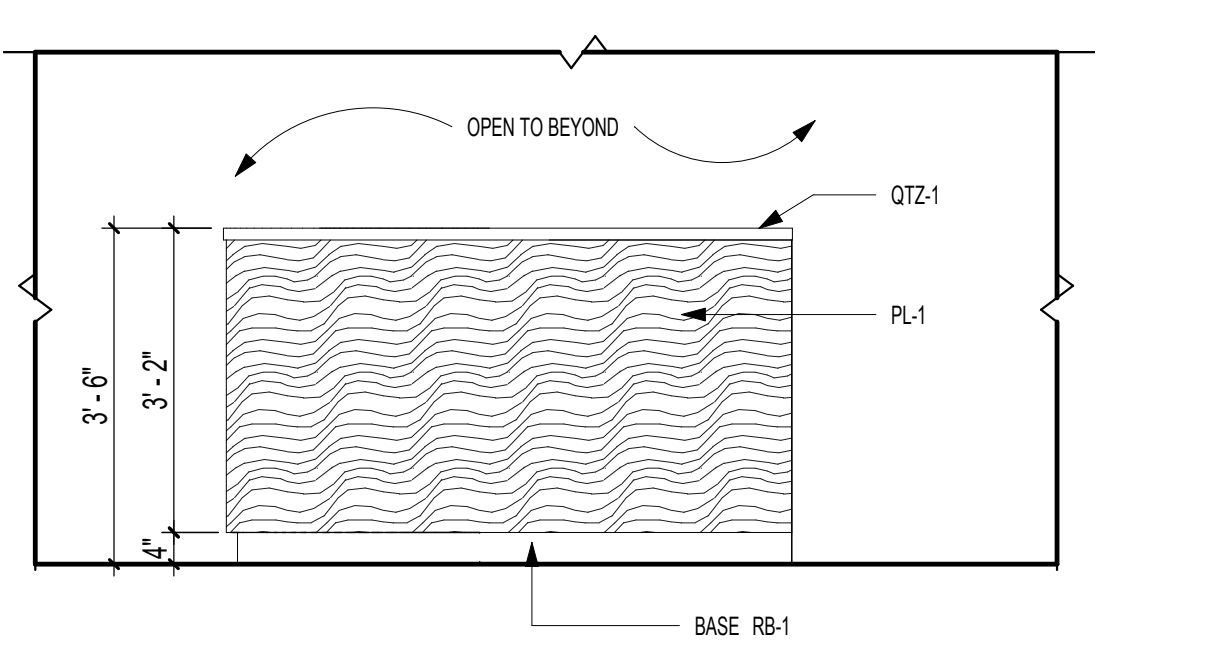
1 MILLWORK TYP. ELEVATION - STAINLESS STL
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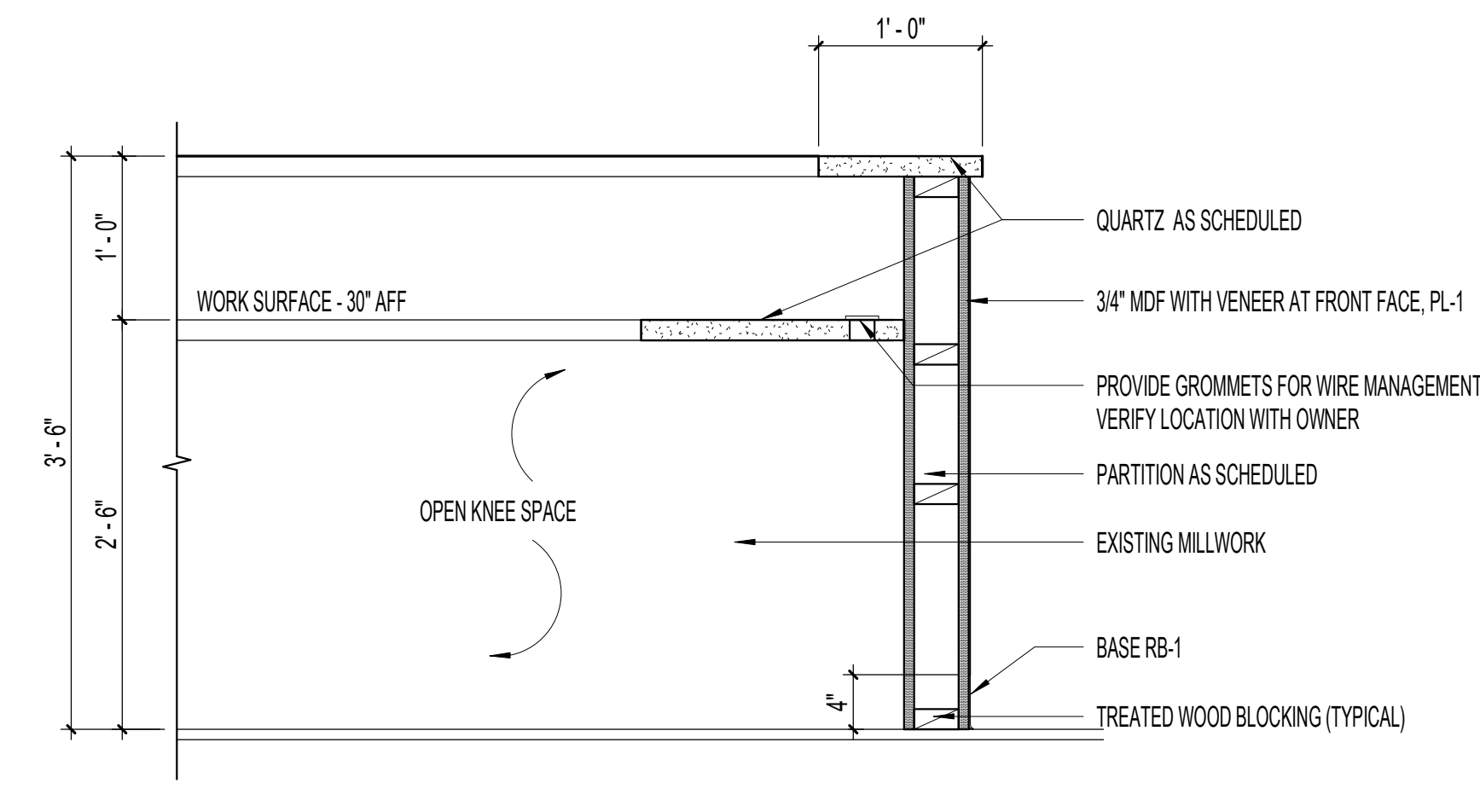
10 RECEPTION DESK
1/2\"/>



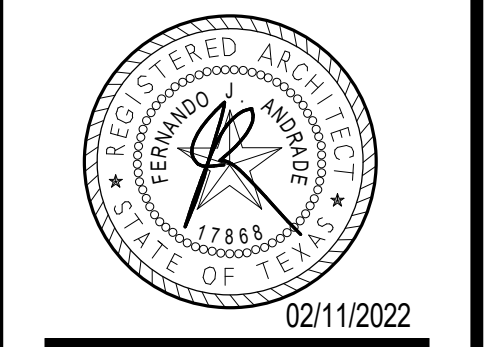
8 RECEPTION DESK
1/2\"/>



9 RECEPTION DESK
1/2\"/>



7 RECEPTION DESK SECTION DTL.
1\"/>



Revisions:

REV.	DATE	TITLE

Date: CONSTRUCTION DOCS 02-11-2022
Project No: 2942
Drawn By: RG
Checked By: Checker
Sheet Title: MILLWORK TYPES AND DETAILS
Drawing No.

S T R U C T U R A L N O T E S

COORDINATION

- A.** The contractor shall compare the architectural, structural, mechanical, electrical, plumbing, and other series drawings and report any discrepancies between a set of drawings and within each set of drawings prior to fabrication and installation of any structural members.
- B.** Only larger sleeve openings and framed openings in structural framing component members are indicated on the structural drawings. However, all sleeves, inserts and openings, including frames and/or sleeves shall be provided for passage, provision and/or incorporation of the work of the contract, including but not limited to mechanical, electrical and plumbing work. This work shall include the coordination of sizes, alignment, dimensions, position, locations, elevations and grades as required to serve the intended purpose. Openings not indicated on the structural drawings, but required as noted above, shall be submitted to the engineer for review.
- C.** Refer to architectural, mechanical, electrical and plumbing drawings for floor elevations, slopes, drains and location of depressed and elevated floor areas.
- D.** Compatibility of the structure and provisions for building equipment supported on or from structural components shall be verified as to size, dimensions, clearances, accessibility, weights and reaction with the equipment for which the structure has been designed prior to submission of shop drawings and data for each piece of equipment and for structural components. Differences shall be noted on the submittals.
- E.** Shop drawings shall be prepared for all structural items and submitted for review by the engineer. Structural drawings shall not be reproduced and used as shop drawings. All items deviating from the structural drawings or from previously submitted shop drawings shall be clouded.
- F.** The details designated as "typical details" apply generally to the structural drawings in all areas where conditions are similar to those described in the details.
- G.** All dimensions and conditions of existing construction shall be verified at the job site prior to the preparation of shop drawings. Differences between existing construction and that shown on the structural drawings shall be referred to the architect. Differences shall also be clouded on the shop drawings.
- H.** All structural elements of the project have been designed by the engineer to resist the required code vertical and lateral forces that could occur in the final completed structure only. It is the responsibility of the contractor to provide all required bracing during construction to maintain the stability and safety of all structural elements during the construction process until the lateral-load resisting or stability-providing system is completely installed and the structure is completely tied together. Temporary supports shall not result in the overstress or damage of the elements to be braced nor any elements used as brace supports.
- I.** The contract structural drawings and specifications represent the finished structure, and except where specifically shown, do not indicate the means or methods of construction. The contractor and their sub-contractors shall supervise and direct the work and shall be solely responsible for all construction means, methods, procedures, techniques, sequences and safety measures including, but not limited to, adherence to all code guidelines. The engineer shall not have control of, and shall not be responsible for, construction means, methods, techniques, sequences or procedures, for safety precautions and programs in connection with the work, for the acts or omissions of the contractor, sub-contractors, or any other person performing any of the work, or for the failure of any of these persons to carry out the work in accordance with the structural contract documents.
- J.** Where conflict exists among the various parts of the structural contract documents, structural drawings, general notes, and specifications, the strictest requirements, as indicated by the engineer, shall govern.
- K.** Periodic site observation by field representatives of JQ is solely for the purpose of determining if the work is proceeding in accordance with the structural contract documents. This limited site observation is not intended to be a check of the quality or quantity of the work, but rather a periodic check in an effort to inform the owner against defects and deficiencies in the work of the contractor.

SUBSTITUTIONS

- A.** All requests for substitutions of materials or details shown in the Structural Contract Documents shall be submitted for approval during the bidding period.
- B.** Once bids are accepted, proposed substitutions will be considered only when they are officially submitted with an identified savings or duration to be deducted from the contract and/or schedule impact. Submittals not satisfying the above criteria will not be considered.
- C.** Codes & Referenced Reports
- A. The General Building Code used as the basis for the structural design is as follows:
 - 1. International Building Code, 2018 Edition
 - B. Structural Concrete: Building Code Requirements for Reinforced Concrete, American Concrete Institute, ACI 318, as referenced by the General Building Code.
 - C. Concrete Masonry: Building Code Requirements for Concrete Masonry Structures, American Concrete Institute, ACI 530, as referenced by the General Building Code.
 - D. Structural Steel: Manual of Steel Construction, American Institute of Steel Construction Inc., ANSI/AISC 360, as referenced by the General Building Code.
 - E. Light Gauge Steel: Specification for the Design of Cold-Formed Steel Structural Members, American Iron and Steel Institute, as referenced by the General Building Code.
 - F. Geotechnical Report: Foundation elements have been designed in accordance with information provided in the following geotechnical report:

Geotechnical engineer:	ECS Southwest, LLP
Report Number:	19-8506
Date:	10-Nov-21

DESIGN LOADS

- A. Dead Loads** include the self-weight of the structural elements and the following superimposed loads:
- | | |
|-----------------------------------|--------|
| 1. Ceiling and Mechanical at roof | 10 psf |
| 2. Roofing and rigid insulation | 5 psf |
- B. Live Loads**
- | OCCUPANCY OR USE | UNIFORM (psf) | CONCENTRATED (lbs.) |
|---------------------|---------------|---------------------|
| 1. Ground Floor | 100 | 2000 |
| 2. Roof - Unreduced | 20 | N/A |
- C. Live Load Reduction**
1. Floor live loads have not been reduced.
 2. Roof live load has not been reduced.
- D. Snow Loads**
1. Ground snow load, Pg 5 psf
- E. Wind Loads**
1. Wind lateral load on structural frame is based on ASCE 7-16 using the following:
- | | |
|--|--------|
| a. Ultimate Design Wind Speed Vult | 105 |
| b. Nominal Design Wind Speed Vasd | 81 mph |
| c. Exposure | C |
| d. Internal Pressure Coefficient, Gcpi | +0.18 |
| e. Risk Category | II |
2. Components and cladding wind pressures:
- | Surface (PSF) | Zone | Area At (ft ²) | 10 or less | 10 or less | 500 or greater | 500 or greater |
|--------------------|--------------------|----------------------------|----------------|----------------|----------------|----------------|
| Exterior walls | Interior and edge | 10 or less | 10 or less | 10 or less | 500 or greater | 500 or greater |
| | Interior | 10 or less | 10 or less | 500 or greater | 500 or greater | |
| | Edge | 10 or less | 10 or less | 500 or greater | 500 or greater | |
| Interior and edge | Interior and edge | 500 or greater | 500 or greater | 500 or greater | 500 or greater | 500 or greater |
| | Interior | 500 or greater | 500 or greater | 500 or greater | 500 or greater | 500 or greater |
| | Edge | 500 or greater | 500 or greater | 500 or greater | 500 or greater | 500 or greater |
| Roof | All surfaces | 10 or less | 10 or less | 10 or less | 100 or less | 100 or less |
| | Interior (1) | 10 or less | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Eave Edges (2e) | 10 or less | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| Ridge Edges (2r) | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| | Ridge Edges (2e) | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| | Eave Corners (3e) | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| Ridge Corners (3r) | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| | All surfaces | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| | Interior (1) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| Eave Edges (2e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Ridge Edges (2r) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Ridge Edges (2e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| Eave Corners (3e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Ridge Corners (3r) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | All surfaces | 100 or less | 100 or less | 100 or less | 100 or less | 100 or less |
| Interior (1) | 100 or less | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Eave Edges (2e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Ridge Edges (2r) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| Ridge Edges (2e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Eave Corners (3e) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
| | Ridge Corners (3r) | 100 or greater | 100 or greater | 100 or greater | 100 or greater | 100 or greater |
- Pressure for Tributary Areas in between the listed values may be linearly interpolated.
- Negative value signifies pressure acting away from the surface (suction).
 - Edge and Corner zone distances shall be "a" = 4'-0"
 - Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
 - Roof pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists, joist girders, and bridging.
- F. Seismic Loads**
- 1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:
 - a. Seismic Importance Factor, IE 1
 - b. Risk Category II
 - c. Mapped Spectral Response Accelerations

i. Ss (g)	0.099
ii. S1 (g)	0.055
 - d. Site Class KX
 - e. Spectral Response Coefficients

i. SDS	0.085
ii. SD1	0.055
 - f. Seismic Design Category A
 - g. Basic Seismic-force-resisting system Bearing Wall System & Steel System Not Specifically Detailed for Seismic Resistance
 - h. Design Base shear, V 0.01xW
 - i. Seismic Response Coefficient(s), C_s 0.01
 - j. Response Modification Factor(s), R_s 1.5
 - k. Analysis Procedure Used General Structural Integrity

DESIGN LOADS (CONT.)

- E. Wind loads**
1. Wind lateral load on structural frame is based on ASCE 7-16 using the following:

a. Ultimate Design Wind Speed Vult	105
b. Nominal Design Wind Speed Vasd	81 mph
c. Exposure	C
d. Internal Pressure Coefficient, Gcpi	+0.18
e. Risk Category	II
 2. Components and cladding wind pressures:

Surface (PSF)	Zone	Area At (ft ²)	10 or less	10 or less	500 or greater	500 or greater
Exterior walls	Interior and edge	10 or less	10 or less	10 or less	500 or greater	500 or greater
	Interior	10 or less	10 or less	500 or greater	500 or greater	
	Edge	10 or less	10 or less	500 or greater	500 or greater	
Interior and edge	Interior and edge	500 or greater	500 or greater	500 or greater	500 or greater	500 or greater
	Interior	500 or greater	500 or greater	500 or greater	500 or greater	500 or greater
	Edge	500 or greater	500 or greater	500 or greater	500 or greater	500 or greater
Roof	All surfaces	10 or less	10 or less	10 or less	100 or less	100 or less
	Interior (1)	10 or less	100 or greater	100 or greater	100 or greater	100 or greater
	Eave Edges (2e)	10 or less	100 or greater	100 or greater	100 or greater	100 or greater
Ridge Edges (2r)	100 or less	100 or less	100 or less	100 or less	100 or less	100 or less
	Ridge Edges (2e)	100 or less	100 or less	100 or less	100 or less	100 or less
	Eave Corners (3e)	100 or less	100 or less	100 or less	100 or less	100 or less
Ridge Corners (3r)	100 or less	100 or less	100 or less	100 or less	100 or less	100 or less
	All surfaces	100 or less	100 or less	100 or less	100 or less	100 or less
	Interior (1)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
Eave Edges (2e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Ridge Edges (2r)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Ridge Edges (2e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
Eave Corners (3e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Ridge Corners (3r)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	All surfaces	100 or less	100 or less	100 or less	100 or less	100 or less
Interior (1)	100 or less	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Eave Edges (2e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Ridge Edges (2r)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
Ridge Edges (2e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Eave Corners (3e)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
	Ridge Corners (3r)	100 or greater	100 or greater	100 or greater	100 or greater	100 or greater
- Pressure for Tributary Areas in between the listed values may be linearly interpolated.
- Negative value signifies pressure acting away from the surface (suction).
 - Edge and Corner zone distances shall be "a" = 4'-0"
 - Pressures on parapets shall be determined by combining positive and negative wall pressures or wall and roof pressures listed above in accordance with the referenced standard.
 - Roof pressures are for gross uplift conditions. Refer to roof plan(s) for net uplift values for design of joists, joist girders, and bridging.
- F. Seismic Loads**
1. The structure and structural components of the building have been designed in accordance with General Building Code with the following criteria:
 - a. Seismic Importance Factor, IE 1
 - b. Risk Category II
 - c. Mapped Spectral Response Accelerations

i. Ss (g)	0.099
ii. S1 (g)	0.055
 - d. Site Class KX
 - e. Spectral Response Coefficients

i. SDS	0.085
ii. SD1	0.055
 - f. Seismic Design Category A
 - g. Basic Seismic-force-resisting system Bearing Wall System & Steel System Not Specifically Detailed for Seismic Resistance
 - h. Design Base shear, V 0.01xW
 - i. Seismic Response Coefficient(s), C_s 0.01
 - j. Response Modification Factor(s), R_s 1.5
 - k. Analysis Procedure Used General Structural Integrity

BUILDING PAD PREPARATION

- A. Remove all organic and other deleterious material from the existing subgrade for a distance of 5' beyond building line and pavement limits, to a depth of about 6 inches below final subgrade elevation.
 - B. Moisture condition soils shall be provide to a depth of 8 feet within the building pads and fatwalk sensitive to movement (min. 7 feet of moisture conditioned soil). This process consists of undercutting, scarifying and/or reworking. On-site clay should receive adequate amounts of water to ensure a uniform moisture content of at least +5% above the optimum moisture content. During the addition of water, the soils should be adequately mixed to ensure a uniform distribution of moisture throughout the soil mass. Moisture conditioned soils shall be compacted to at least 93% of the Maximum Dry Density as defined in ASTM D 698.
 - C. Select fill soil cap shall be provided 1 foot below the building pads and fatwalk sensitive to movement. Select fill material shall have a plasticity index between 5 and 15, contain 40 to 70 percent passing the No. 200 sieve, and free of debris or organic matter. Compact select fill to at least 95% of the Maximum Dry Density as defined in ASTM D 698.
 - D. Soil placed along the exterior of the grade beams shall be on-site clay soils placed and compacted to at least 93% of the Maximum Dry Density as defined in ASTM D 698.
 - E. All fill soils shall be placed to final subgrade elevation in 8 inch loose lifts for mass grading operations and 4 inches for trench type excavations.
 - F. Compaction and moisture content of subgrade and each lift of select fill shall be inspected and approved by a qualified engineering technician, supervised by a Geotechnical Engineer.
 - G. Select fill shall not be placed beyond the limits of the exterior building structure.
 - H. Provide a vapor retarder that conforms to ASTM E1745, Class A or better with a maximum water vapor permeance of 0.01 perms per ASTM E96. Vapor retarder shall be no less than 15 mils thick.
 - I. The above recommendations have been prepared in accordance with the referenced geotechnical report.
- DRILLED PIERS**
- A. Pier design is based on the following design criteria:

1. Allowable net bearing:	30 KSF
2. Side friction:	3.5 KSF
3. Uplift side friction:	1.5 KSF
4. Uplift design depth:	10 FEET
5. Side friction (uplift resistance):	2.5 KSF
6. Minimum penetration into bearing stratum:	7 FEET
 - B. Pier design is in accordance with the recommendations in the referenced geotechnical report.
 - C. Bearing stratum shown on the pier details is Gray Shale.
 - D. Piers not specifically located on the plan shall be located on centerline of column above. Where no column occurs, locate on centerline of wall or beam.
 - E. Provide dowels from piers into concrete above using same bar size and number as shown for pier reinforcing steel. Extend dowels 30 bar diameters into pier and beam, wall, plaster or column, unless noted otherwise on the Structural Drawings.
 - F. Elevation of top of piers, unless noted otherwise on the Structural Drawings, is at the bottom of the deepest intersecting beam or wall supported by the pier.
 - G. Reinforcing cage shall be held securely away from earth at sides and bottom by sets of 3 spacers at a maximum spacing of 6 ft. along the length of the cage and 1'-0" from the bottom.
 - H. Pier reinforcing and concrete shall be placed immediately after drilling operations are complete; in no case shall a pier be drilled that cannot be placed by the end of the workday.
 - I. See plans for pier sizes, reinforcing and depth.
 - J. The contractor shall verify depths of piers before pier steel is cut. Pier steel may be delivered to the jobsite in standard lengths and cut as required. Provide 64 bar diameter laps in all vertical pier reinforcing.
 - K. Reinforcing steel shop drawings shall include placing drawings for templates to set dowels in piers.
 - L. Top of pier shall be of the specified diameter. Form top of pier if required to maintain the specified diameter. Any concrete extending beyond the specified diameter shall be removed.
 - M. Temporary steel casing may be required during pier drilling operations. Prior to the placement of concrete, any seepage water shall be removed from the pier holes. Special construction procedures in accordance with ACI 336.1 and ACI 336.3R and specifications shall be followed during extraction of the casing and during concrete placement.
 - N. Contractor shall include in bid documents, unit-costs for casing if required and unit-cost for greater and lesser depth of drilling for each pier size.
 - O. All piers shall be inspected by a qualified geotechnical laboratory in order to ensure that the proposed bearing material has been reached in accordance with the recommendations given in the geotechnical report.
 - P. The contractor shall make and maintain accurate records of the drilled pier depths, bearing stratum, depth of penetration into bearing stratum, diameter and location (including off center eccentricities), and shall submit this information to the Engineer.

CAST-IN-PLACE CONCRETE

- A. CONCRETE MIX USAGE SCHEDULE:**
All concrete shall conform to the requirements as specified in the table below, unless noted otherwise on the Structural Drawings:
- | Use | Strength psi | Agg. Content | Slump | Max. Size | Air |
|-------------------------------------|--------------|--------------|-------|-----------|-----|
| Drilled Piers | 3000 NWT | 1-1/2" | 5-7 | --- | --- |
| Grade Beams | 4500 NWT | 1" | 3-5 | 0.45 | 6% |
| Interior Slab-on-Grade | 4000 NWT | 1" | 3-5 | --- | --- |
| Exterior Equipment Pads | 4500 NWT | 1" | 3-5 | 0.45 | 6% |
| Topping Slabs and Housekeeping Pads | 3000 NWT | 1" | 3-5 | --- | --- |
1. "NWT" refers to normal concrete having air dry unit weight of approximately 145 PCF (ASCE C33 aggregate).
 2. Where the w/c ratio is not indicated in the table above, it shall be as necessary to meet strength requirements.
 3. Where the w/c ratio is shown, it shall be adhered to regardless of strength requirements.
 4. "Strength" is required compressive cylinder strength at an age of 28 days.
- B.** A maximum of 20% of the cementitious materials used in mix designs may be replaced with class C or F fly ash.
- C.** Fly ash shall not be used in architecturally exposed concrete.
- D.** Provide 6 percent plus or minus 1/2 percent of entrained air in concrete permanently exposed to the weather and elsewhere at the contractor's option.
- E.** Horizontal construction joints in concrete placements shall be permitted only where indicated on the Structural Drawings. All vertical construction joints shall be made in the center of spans in accordance with the typical details. Contractor shall submit proposed locations for construction joints not shown on the Structural Drawings for review by the Architect and Engineer. Additional construction joints may require additional reinforcing as specified by the Engineer which shall be provided by the contractor at no additional cost to the owner.
- F. Embedded conduits, pipes, and sleeves** shall meet the requirements of ACI 318, Section 26.8, including the following:
1. Conduits and pipes embedded within a slab, wall, or beam (other than those passing through) shall not be larger in outside dimension than 1/3 the overall thickness of the slab, wall or beam in which they are embedded.
 2. Conduits, pipes and sleeves shall not be spaced closer than three diameters or widths on center.
- G. Void forms:** Shall be the product of a reputable manufacturer regularly engaged in commercial production of void forms.
1. Void form composition shall be of corrugated paper material with a moisture resistant exterior and an interior fabrication of a uniform cellular configuration, composed of components constructed of double-faced wax-impregnated (partially only), corrugated fiberglass that is laminated with moisture resistant adhesive.
 2. Design and maintain void forms to support all vertical and lateral loads that might be applied during construction until such loads can be supported by the concrete structure.
 3. Form material shall be designed to lose its strength under prolonged contact with the moisture which normally accumulates beneath slabs and beams on grade.
- H.** Grade beams in contact with earth shall be formed both sides unless noted otherwise in details.
- I.** Concrete sampling for quality assurance: Concrete that is pumped shall be sampled at the point of discharge from the truck.

CONCRETE REINFORCING

- A.** Concrete reinforcement for the project shall conform to the following:
1. All reinforcing steel shall be new billet steel in accordance with ASTM A615, Grade 60, unless noted otherwise in the Structural Drawings or these notes.
 2. Welded wire reinforcement: Welded smooth wire reinforcement, ASTM A1064, yield strength 65,000 psi where noted on the Structural Drawings. Welded deformed wire reinforcement, ASTM A1063, yield strength 70,000 psi where noted on the Structural Drawings. Welded wire reinforcement to be provided in flat sheets.
- B.** Detailing of reinforcing steel shall conform to the American Concrete Institute 315 Detailing Manual and all hooks and bends in reinforcing bars shall conform to ACI 318 detailing standards, unless noted otherwise on the Structural Drawings.
- C.** Welded Wire Reinforcement shall be continuous across the entire concrete surface and not interrupted by beams or girders and properly lapped one cross wire spacing plus 2'.
- D.** Reinforcement in Housekeeping Pads shall be welded smooth wire reinforcement 6 x 6 W2.9 x W2.9 minimum in all housekeeping pads supporting mechanical equipment where shown on the Structural Drawings or unless heavier reinforcement is called for on the Structural Drawings.
- E. In unscheduled grade beams, walls, and slabs, detail reinforcing as follows:**
1. Provide standard hooks in top bars at cantilever and discontinuous ends of beams, walls and slabs.
 2. Provide corner bars for all horizontal bars at the inside and outside faces of intersecting beams or walls. Corner bars are not required if horizontal bars are hooked.
 3. Provide 2-#4 diagonal bars at all slab re-entrant corners placed under the top mat of steel.
- F.** Welding of reinforcing steel will not be permitted unless specifically shown on the Structural Drawings.
- G.** Heat shall not be used in the fabrication or installation of reinforcement.
- H.** Reinforcing steel clear cover shall be as follows:
- | | |
|-----------------------|---------------------------------|
| 1. Drilled Piers | 3" |
| 2. Formed grade beams | 1 1/2" top, 2" sides, 3" bottom |
| 3. Slab-on-grade | See detail |

STRUCTURAL MASONRY

- A.** Minimum compressive strength of the masonry (F_m) shall be as noted below.
- B.** Mortar shall conform to ASTM C270, Type S. Masonry cement shall not be used.
- C.** Concrete masonry units shall be hollow load bearing units which conform to ASTM C90, with a minimum net compressive strength as follows:
- | F _m (psi) | Net Area Compressive Strength of CMU Block (psi) |
|----------------------|--|
| 2000 | 2000 |
- D.** Chases shall be built in and not cut in. Chases shall be plumb and shall be minimum one unit length from jams of openings. Anchors, wall plugs, accessories and other items to be built in shall be installed as the masonry work progresses. All cutting and fitting of masonry, including that required to accommodate the work of other sections shall be done by masons with masonry saws.
- E.** Coarse grout shall conform to ASTM C476 and placed in accordance with ACI 530.01 Section 3.3.2, with a maximum aggregate size of 1/2" and a minimum compressive strength.
- | Location | Compressive Strength (psi) |
|----------|----------------------------|
| Typical | 2000 |
- F.** Reinforce concrete masonry unit joints with ladder type hot dip galvanized cold-drawn steel conforming to ANSI/ASTM A82, with W1 7 side rods with W1 7 cross rods.
1. Splice joint reinforcing at 16 inches o.c. unless noted otherwise.
 2. Lap joint reinforcing 14 inches at splices.
 3. Provide prefabricated joint reinforcing corner pieces at all wall corners and intersections.
 4. Joint reinforcing shall be discontinuous at control and expansion joints.
- G.** Lap reinforcing bars in grouted masonry as noted below. Splices in reinforcing shall be staggered so that not more than 1/2 of all bars are spliced at the same location.
- | Concrete Anchors | Minimum (°F) | Maximum (°F) |
|--------------------|--------------|--------------|
| Hilti HIT-RE-500V3 | 23 | 104 |
| Hilti HY-200 | 14 | 104 |
| Simpson SET-3G | 40 | 100 |
| Simpson AT-XP | 50 | 100 |
| DEWALT Pure 110+ | 41 | 104 |
| DEWALT AC 200+ | 23 | 104 |
- H.** Embedded conduits, pipes, and sleeves shall meet the requirements of ACI 530, Section 3.2.2, including the following:
1. Conduits, pipes, and sleeves in masonry shall be no closer than 3 diameters on center. Minimum spacing of conduits

S T R U C T U R A L N O T E S

METAL DECKS

A. Metal Roof Deck

- Metal Roof Deck Schedule:

Location	Gauge	SDI Deck Type	Deck Depth (in)	Sheet Width (in)	Min. Spacing (in4)	Min. Spacing (in3)	Min. Spacing (in3)
Typ. UNO	22	WR	1.5	36	0.169	0.186	0.194

Sp = positive section modulus in3
Sn = negative section modulus in3
I = moment of inertia in4
- Roof deck shall be galvanized.
- Sheet steel for galvanized roof deck and accessories shall conform to ASTM A653, Structural Quality, with a minimum yield strength of 33 ksi. Galvanizing shall conform to ASTM A653 with a minimum coating of G60 as defined in A653.
- Roof deck shall be continuous over four or more supports.
- Place deck panels on structural supports and adjust to final position with ends lapped 2 inches over structural supports. Provide minimum end bearing of 2 inches.
- Roof deck connections shall be as follows:

Location	Support Connx Pattern	Support Fastener	Sidelap Fastener/ No per span
Roof Over LG Trusses			
Interior Field	36/4	#10 Tek	#10 Tek/ 2
Perimeter Band	36/4	#10 Tek	#10 Tek/ 4
Roof Over Steel Beams			
Interior Field	36/4	5/8" PW	#10 Tek/ 2
Perimeter Band	36/4	5/8" PW	#10 Tek/ 4

See Design Wind Load information or plans for "a" dimension and Interior Fields, Perimeter Band, Ridge Band, and Corner Zones wind loads.
PW = Puddle Weld
- Power driven fasteners shall be selected by the Contractor for the combinations of deck gauge and deck support member thickness. Submit proposed fasteners with complete manufacturer's information, including diaphragm shear values for the Engineer to review.
- Mechanical, electrical and plumbing systems shall not be supported by the metal roof deck.

PRE-ENGINEERED LIGHT GAUGE STEEL TRUSSES

- All pre-engineered cold-formed steel truss design and manufacture, including anchorage, bracing, and connections to structure during erection and during service life of the structure, shall be signed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site. The design, quality assurance, installation, and testing of cold-formed steel trusses shall be in accordance with the American Iron and Steel Institute (AISI-General, AISI-MAS, and AISI-Truss).
- Plates and members shall be manufactured from zinc-coated steel conforming to ASTM A446 with minimum yield strength of 40 ksi. Provide class G60 zinc coating.
- Pre-engineered cold-formed steel trusses, including overhangs and connections to structure, shall be designed for the superimposed dead and live loads as well as special loading conditions provided in the Structural Drawings.
- Pre-engineered cold-formed steel trusses, including overhangs and connections to structure, shall be designed to resist the net wind uplift loads provided in the Structural Drawings. Provide additional bracing as required.
- The design of pre-engineered cold-formed steel trusses shall include the following requirements:
 - Top and bottom chords shall be designed to resist local bending induced by the loads noted on the top and bottom chords, including a minimum 300 lb live load at any location.
 - Limit live load deflection of trusses to L/240. Total load deflections shall be limited to L/180.
 - Trusses shall be designed for the following superimposed loads:
 - Dead Load
 - Top Chord: 15 psf
 - Bottom Chord: 5 psf
 - Live Load
 - Top Chord: 20 psf
 - Bottom Chord: 10 psf
 - Trusses shall be designed for the superimposed wind loads and snow loads in accordance with the referenced Building Code and the specified basic wind speed, exposure, and importance factor. Increase member sizes or provide additional bracing as required to resist uplift forces.
- The design of pre-engineered cold-formed steel trusses and connections, including connections to structure, shall include the overall stability and resistance to the main wind force resisting forces based on the criteria noted in the Structural Notes, or as provided in the Structural Drawings.
- Truss manufacturer shall provide permanent bracing as required by the design of trusses. Erection bracing may remain in place as permanent bracing where it does not interfere with architectural finishes and/or mechanical and plumbing items.
- Design layout, spacing, and configuration shall be as indicated in the Structural Drawings. Alternate truss-manufacturer proposed layouts are only acceptable as a change order which will include engineering compensation for re-design of affected building structural components by the Engineer.
- Truss designer/manufacturer shall submit shop drawings for review and approval prior to fabrication or construction. Shop drawings shall be signed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site to include the following:
 - Framing plan showing truss layout and permanent bracing.
 - Truss elevations showing member sizes, dimensions, loadings, and bearing locations.
 - Truss to truss connections, connections among truss members, truss to structure connections, and any connectors related to items provided as part of the pre-engineered truss system.
 - Member properties.
 - Calculations including forces in members and design of members.
 - Erection plan identifying all truss components and all permanent bracing required for truss design.

DESIGN BY OTHERS

- In accordance with the Specifications the items listed below are not included in the Contract Documents. Design of these elements shall be the responsibility of the Contractor, and shall be designed and sealed by a registered professional engineer licensed in the state having jurisdiction at the project site.
 - Steel Connections
 - Guardrail and Handrail Systems
 - Cold Formed Metal Framing
 - Cold Formed Metal Roof Trusses
 - Pre-Fabricated Awnings and Canopies
 - Curtainwall Systems
 - Embedded assemblies and inserts, clamps, hangers, trapezes, unistrut, etc. for the support of MEP systems.
- Design of the items listed above shall be in accordance with the General Building Code, and shall include all attachments to the structure.

ABBREVIATIONS

ABV	- ABOVE	L	- LENGTH
A.F.F.	- ABOVE FINISHED FLOOR	L.W.	- LIGHTWEIGHT
ADDNL	- ADDITIONAL	L.W.C.	- LIGHTWEIGHT CONCRETE
ADH	- ADHESIVE	LL	- LIVE LOAD
ADJ.	- ADJACENT	LOC.	- LOCATION
AGGR.	- AGGREGATE	LLH	- LONG LEG HORIZONTAL
AIC	- AIR CONDITIONER	LLV	- LONG LEG VERTICAL
AHU	- AIR HANDLING UNIT	LSH	- LONG SIDE HORIZONTAL
ALT.	- ALTERNATE	LSV	- LONG SIDE VERTICAL
ALUM.	- ALUMINUM	LSL	- LONG SLOTTED HOLE
A.C.I.	- AMERICAN CONCRETE INSTITUTE	LONG	- LONGITUDINAL
A.I.S.C.	- AMERICAN INSTITUTE OF STEEL CONSTRUCTION	L.P.	- LOW POINT
A.B.	- ANCHOR BOLT	MFR.	- MANUFACTURE(R)
&	- AND	MAS.	- MASONRY
L	- ANGLE	MCJ	- MASONRY CONTROL JOINT
APRD.	- APPROVED	MAT.	- MATERIAL
APPROX.	- APPROXIMATE	MAX.	- MAXIMUM
ARCH.	- ARCHITECT	MECH.	- MECHANICAL
ARCHL.	- ARCHITECTURAL	MEP	- MECHANICAL, ELECTRICAL, PLUMBING
A.E.C.	- ARCHITECTURALLY EXPOSED CONCRETE	MTL	- METAL
A.E.S.S.	- ARCHITECTURALLY EXPOSED STRUCTURAL STEEL	MEZZ.	- MEZZANINE
@	- AT	MID.	- MIDDLE
B.F.	- BACK FACE	MIM.	- MINIMUM
B.T.O.B.	- BACK TO BACK	MISC.	- MISCELLANEOUS
BSMT.	- BASEMENT	M	- MOMENT
BM.	- BEAM	M.C.	- MOMENT CONNECTION(S)
BRG.	- BEARING	N.F.	- NEAR FACE
B.F.F.	- BELOW FINISH FLOOR	BTWN.	- BETWEEN
BTWN.	- BETWEEN	BEV(D)	- BEVELED
BLK.	- BLOCK	BLK.	- BLOCK
B.L.	- BLOCK LINTEL	B.LG.	- BLOCKING
BLKG.	- BLOCKING	BOT.	- BOTTOM
BOT.	- BOTTOM	B.O.	- BOTTOM OF
B.O.S.	- BOTTOM OF STEEL	BRKT.	- BRACKET
BRKT.	- BRACKET	BR.L.	- BRICKLEDGE
BR.L.	- BRICKLEDGE	BROG.	- BRIDGE
BROG.	- BRIDGE	BLDG.	- BUILDING
BLDG.	- BUILDING	C	- CAMBER
C	- CAMBER	C.I.P.	- CAST-IN-PLACE
C.I.P.	- CAST-IN-PLACE	CLG.	- GELING
CLG.	- GELING	C.L.	- CENTER LINE
C.L.	- CENTER LINE	C.G.	- CENTER OF GRAVITY
C.G.	- CENTER OF GRAVITY	C.G.S.	- CENTER OF GRAVITY OR STRAND
C.G.S.	- CENTER OF GRAVITY OR STRAND	CTR.	- CENTERED
CTR.	- CENTERED	CLR.	- CLEAR OR CLEARANCE
CLR.	- CLEAR OR CLEARANCE	CFS.	- COLD FORMED STEEL
CFS.	- COLD FORMED STEEL	COL.	- COLUMN
COL.	- COLUMN	C OR COMP.	- COMPRESSION
C OR COMP.	- COMPRESSION	CONC.	- CONCRETE
CONC.	- CONCRETE	CMU	- CONCRETE MASONRY UNIT
CMU	- CONCRETE MASONRY UNIT	CONN(S)	- CONNECTION(S)
CONN(S)	- CONNECTION(S)	CONST.	- CONSTRUCTION
CONST.	- CONSTRUCTION	CONST. JT.	- CONSTRUCTION JOINT
CONST. JT.	- CONSTRUCTION JOINT	CONT.	- CONTINUOUS
CONT.	- CONTINUOUS	CONTR.	- CONTRACTOR
CONTR.	- CONTRACTOR	C.J.	- CONTROL JOINT
C.J.	- CONTROL JOINT	COORD.	- COORDINATE
COORD.	- COORDINATE	COV.PL.	- COVER PLATE
COV.PL.	- COVER PLATE	D.L.	- DEAD LOAD
D.L.	- DEAD LOAD	D.B.A.	- DEFORMED BAR ANCHOR
D.B.A.	- DEFORMED BAR ANCHOR	D	- DEPTH
D	- DEPTH	DTL.	- DETAIL
DTL.	- DETAIL	DIAG.	- DIAGONAL
DIAG.	- DIAGONAL	DIA OR Ø	- DIAMETER
DIA OR Ø	- DIAMETER	DM(S)	- DIMENSION(S)
DM(S)	- DIMENSION(S)	DBL.	- DOUBLE
DBL.	- DOUBLE	XX-STR	- DOUBLE EXTRA STRONG
XX-STR	- DOUBLE EXTRA STRONG	DVTL.	- DOVETAIL
DVTL.	- DOVETAIL	DWL(S)	- DOWEL(S)
DWL(S)	- DOWEL(S)	DN.	- DOWN
DN.	- DOWN	DS.	- DOWNSPOUT
DS.	- DOWNSPOUT	DWG(S)	- DRAWING(S)
DWG(S)	- DRAWING(S)	EA.	- EACH
EA.	- EACH	E.F.	- EACH FACE
E.F.	- EACH FACE	E.W.	- EACH WAY
E.W.	- EACH WAY	E.O.D.	- EDGE OF DECK
E.O.D.	- EDGE OF DECK	ELEC.	- ELECTRICAL
ELEC.	- ELECTRICAL	EL.	- ELEVATION
EL.	- ELEVATION	ELEV.	- ELEVATION
ELEV.	- ELEVATION	EMBED.	- EMBEDMENT
EMBED.	- EMBEDMENT	ENGR.	- ENGINEER
ENGR.	- ENGINEER	EQ.	- EQUAL
EQ.	- EQUAL	EQUIP.	- EQUIPMENT
EQUIP.	- EQUIPMENT	EF	- EXHAUST FAN
EF	- EXHAUST FAN	(E)	- EXIST.
(E)	- EXIST.	EXIST.	- EXISTING
EXIST.	- EXISTING	EXP.	- EXPANSION
EXP.	- EXPANSION	E.J.	- EXPANSION JOINT
E.J.	- EXPANSION JOINT	EXT.	- EXTERIOR
EXT.	- EXTERIOR	X-STR	- EXTRA STRONG
X-STR	- EXTRA STRONG	FABR.	- FABRICATOR
FABR.	- FABRICATOR	F. TO F.	- FACE TO FACE
F. TO F.	- FACE TO FACE	F.S.	- FAR SIDE
F.S.	- FAR SIDE	F.V.	- FIELD VERIFY
F.V.	- FIELD VERIFY	FIN(D)	- FINISHED
FIN(D)	- FINISHED	FIN. FL.	- FINISHED FLOOR
FIN. FL.	- FINISHED FLOOR	FP.	- FIREPROOF(ING)
FP.	- FIREPROOF(ING)	FLG.	- FLANGE
FLG.	- FLANGE	FL.	- FLOOR
FL.	- FLOOR	F.D.	- FLOOR DRAIN
F.D.	- FLOOR DRAIN	FT.	- FOOT (OR) FEET
FT.	- FOOT (OR) FEET	FDN.	- FOUNDATION
FDN.	- FOUNDATION	FRMG.	- FRAMING
FRMG.	- FRAMING	F.P.	- FULL PENETRATION
F.P.	- FULL PENETRATION	GA.	- GAGE OR GAUGE
GA.	- GAGE OR GAUGE	GALV.	- GALVANIZED
GALV.	- GALVANIZED	G.C.	- GENERAL CONTRACTOR
G.C.	- GENERAL CONTRACTOR	GR.	- GRADE
GR.	- GRADE	GR. BM.	- GRADE BEAM
GR. BM.	- GRADE BEAM	H.S.A.	- HEADED STUD ANCHOR
H.S.A.	- HEADED STUD ANCHOR	HT.	- HEIGHT
HT.	- HEIGHT	H.P.	- HIGH POINT
H.P.	- HIGH POINT	HSS	- HOLLOW STRUCTURAL SECTION
HSS	- HOLLOW STRUCTURAL SECTION	HK.	- HOOK
HK.	- HOOK	HORIZ.	- HORIZONTAL
HORIZ.	- HORIZONTAL	H.B.	- HORIZONTAL BRACE
H.B.	- HORIZONTAL BRACE	H.D.	- HOT-DIP
H.D.	- HOT-DIP	I.N.	- INCH
I.N.	- INCH	INFO.	- INFORMATION
INFO.	- INFORMATION	I.D.	- INSIDE DIAMETER
I.D.	- INSIDE DIAMETER	I.F.	- INSIDE FACE
I.F.	- INSIDE FACE	INT.	- INTERIOR
INT.	- INTERIOR	INTERM.	- INTERMEDIATE
INTERM.	- INTERMEDIATE	JT.	- JOINT
JT.	- JOINT	J.G.	- JOIST GIRDER
J.G.	- JOIST GIRDER	JST(S)	- JOIST(S)
JST(S)	- JOIST(S)	KLF	- KIP PER LINEAR FOOT
KLF	- KIP PER LINEAR FOOT	KSF	- KIP PER SQUARE FOOT
KSF	- KIP PER SQUARE FOOT	KSI	- KIP PER SQUARE INCH
KSI	- KIP PER SQUARE INCH	K	- KIPS (1000 LBS)
K	- KIPS (1000 LBS)	L	- LENGTH
L	- LENGTH	L.W.	- LIGHTWEIGHT
L.W.	- LIGHTWEIGHT	L.W.C.	- LIGHTWEIGHT CONCRETE
L.W.C.	- LIGHTWEIGHT CONCRETE	LL	- LIVE LOAD
LL	- LIVE LOAD	LOC.	- LOCATION
LOC.	- LOCATION	LLH	- LONG LEG HORIZONTAL
LLH	- LONG LEG HORIZONTAL	LLV	- LONG LEG VERTICAL
LLV	- LONG LEG VERTICAL	LSH	- LONG SIDE HORIZONTAL
LSH	- LONG SIDE HORIZONTAL	LSV	- LONG SIDE VERTICAL
LSV	- LONG SIDE VERTICAL	LSL	- LONG SLOTTED HOLE
LSL	- LONG SLOTTED HOLE	LONG	- LONGITUDINAL
LONG	- LONGITUDINAL	L.P.	- LOW POINT
L.P.	- LOW POINT	MFR.	- MANUFACTURE(R)
MFR.	- MANUFACTURE(R)	MAS.	- MASONRY
MAS.	- MASONRY	MCJ	- MASONRY CONTROL JOINT
MCJ	- MASONRY CONTROL JOINT	MAT.	- MATERIAL
MAT.	- MATERIAL	MAX.	- MAXIMUM
MAX.	- MAXIMUM	MECH.	- MECHANICAL
MECH.	- MECHANICAL	MEP	- MECHANICAL, ELECTRICAL, PLUMBING
MEP	- MECHANICAL, ELECTRICAL, PLUMBING	MTL	- METAL
MTL	- METAL	MEZZ.	- MEZZANINE
MEZZ.	- MEZZANINE	MID.	- MIDDLE
MID.	- MIDDLE	MIM.	- MINIMUM
MIM.	- MINIMUM	MISC.	- MISCELLANEOUS
MISC.	- MISCELLANEOUS	M	- MOMENT
M	- MOMENT	M.C.	- MOMENT CONNECTION(S)
M.C.	- MOMENT CONNECTION(S)	N.F.	- NEAR FACE
N.F.	- NEAR FACE	BTWN.	- BETWEEN
BTWN.	- BETWEEN	BEV(D)	- BEVELED
BEV(D)	- BEVELED	BLK.	- BLOCK
BLK.	- BLOCK	B.L.	- BLOCK LINTEL
B.L.	- BLOCK LINTEL	BLKG.	- BLOCKING
BLKG.	- BLOCKING	BOT.	- BOTTOM
BOT.	- BOTTOM	B.O.	- BOTTOM OF
B.O.	- BOTTOM OF	B.O.S.	- BOTTOM OF STEEL
B.O.S.	- BOTTOM OF STEEL	BRKT.	- BRACKET
BRKT.	- BRACKET	BR.L.	- BRICKLEDGE
BR.L.	- BRICKLEDGE	BROG.	- BRIDGE
BROG.	- BRIDGE	BLDG.	- BUILDING
BLDG.	- BUILDING	C	- CAMBER
C	- CAMBER	C.I.P.	- CAST-IN-PLACE
C.I.P.	- CAST-IN-PLACE	CLG.	- GELING
CLG.	- GELING	C.L.	- CENTER LINE
C.L.	- CENTER LINE	C.G.	- CENTER OF GRAVITY
C.G.	- CENTER OF GRAVITY	C.G.S.	- CENTER OF GRAVITY OR STRAND
C.G.S.	- CENTER OF GRAVITY OR STRAND	CTR.	- CENTERED
CTR.	- CENTERED	CLR.	- CLEAR OR CLEARANCE
CLR.	- CLEAR OR CLEARANCE	CFS.	- COLD FORMED STEEL
CFS.	- COLD FORMED STEEL	COL.	- COLUMN
COL.	- COLUMN	C OR COMP.	- COMPRESSION
C OR COMP.	- COMPRESSION	CONC.	- CONCRETE
CONC.	- CONCRETE	CMU	- CONCRETE MASONRY UNIT
CMU	- CONCRETE MASONRY UNIT	CONN(S)	- CONNECTION(S)
CONN(S)	- CONNECTION(S)	CONST.	- CONSTRUCTION
CONST.	- CONSTRUCTION	CONST. JT.	- CONSTRUCTION JOINT
CONST. JT.	- CONSTRUCTION JOINT	CONT.	- CONTINUOUS
CONT.	- CONTINUOUS	CONTR.	- CONTRACTOR
CONTR.	- CONTRACTOR	C.J.	- CONTROL JOINT
C.J.	- CONTROL JOINT	COORD.	- COORDINATE
COORD.	- COORDINATE	COV.PL.	- COVER PLATE
COV.PL.	- COVER PLATE	D.L.	- DEAD LOAD
D.L.	- DEAD LOAD	D.B.A.	- DEFORMED BAR ANCHOR
D.B.A.	- DEFORMED BAR ANCHOR	D	- DEPTH
D	- DEPTH	DTL.	- DETAIL
DTL.	- DETAIL	DIAG.	- DIAGONAL
DIAG.	- DIAGONAL	DIA OR Ø	- DIAMETER
DIA OR Ø	- DIAMETER	DM(S)	- DIMENSION(S)
DM(S)	- DIMENSION(S)	DBL.	- DOUBLE
DBL.	- DOUBLE	XX-STR	- DOUBLE EXTRA STRONG
XX-STR	- DOUBLE EXTRA STRONG	DVTL.	- DOVETAIL
DVTL.	- DOVETAIL	DWL(S)	- DOWEL(S)
DWL(S)	- DOWEL(S)	DN.	- DOWN
DN.	- DOWN	DS.	- DOWNSPOUT
DS.	- DOWNSPOUT	DWG(S)	- DRAWING(S)
DWG(S)	- DRAWING(S)	EA.	- EACH
EA.	- EACH	E.F.	- EACH FACE
E.F.	- EACH FACE	E.W.	- EACH WAY
E.W.	- EACH WAY	E.O.D.	- EDGE OF DECK
E.O.D.	- EDGE OF DECK	ELEC.	- ELECTRICAL
ELEC.	- ELECTRICAL	EL.	- ELEVATION
EL.	- ELEVATION	ELEV.	- ELEVATION
ELEV.	- ELEVATION	EMBED.	- EMBEDMENT
EMBED.	- EMBEDMENT	ENGR.	- ENGINEER
ENGR.	- ENGINEER	EQ.	- EQUAL
EQ.	- EQUAL	EQUIP.	- EQUIPMENT
EQUIP.	- EQUIPMENT	EF	- EXHAUST FAN
EF	- EXHAUST FAN	(E)	- EXIST.
(E)	- EXIST.	EXIST.	- EXISTING
EXIST.	- EXISTING	EXP.	- EXPANSION
EXP.	- EXPANSION	E.J.	- EXPANSION JOINT
E.J.	- EXPANSION JOINT	EXT.	- EXTERIOR
EXT.	- EXTERIOR	X-STR	- EXTRA STRONG
X-STR	- EXTRA STRONG	FABR.	- FABRICATOR
FABR.	- FABRICATOR	F. TO F.	- FACE TO FACE
F. TO F.	- FACE TO FACE	F.S.	- FAR SIDE
F.S.	- FAR SIDE	F.V.	- FIELD VERIFY
F.V.	- FIELD VERIFY	FIN(D)	- FINISHED
FIN(D)	- FINISHED	FIN. FL.	- FINISHED FLOOR
FIN. FL.	- FINISHED FLOOR	FP.	- FIREPROOF(ING)
FP.	- FIREPROOF(ING)	FLG.	- FLANGE
FLG.	- FLANGE	FL.	- FLOOR
FL.	- FLOOR	F.D.	- FLOOR DRAIN
F.D.	- FLOOR DRAIN	FT.	- FOOT (OR) FEET
FT.	- FOOT (OR) FEET	FDN.	- FOUNDATION
FDN.	- FOUNDATION	FRMG.	- FRAMING
FRMG.	- FRAMING	F.P.	- FULL PENETRATION
F.P.	- FULL PENETRATION	GA.	- GAGE OR GAUGE
GA.	- GAGE OR GAUGE	GALV.	- GALVANIZED
GALV.	- GALVANIZED	G.C.	- GENERAL CONTRACTOR
G.C.	- GENERAL CONTRACTOR	GR.	- GRADE
GR.	- GRADE	GR. BM.	- GRADE BEAM
GR. BM.	- GRADE BEAM	H.S.A.	- HEADED STUD ANCHOR
H.S.A.	- HEADED STUD ANCHOR	HT.	- HEIGHT
HT.	- HEIGHT	H.P.	- HIGH POINT
H.P.	- HIGH POINT	HSS	- HOLLOW STRUCTURAL SECTION
HSS	- HOLLOW STRUCTURAL SECTION	HK.	- HOOK
HK.	- HOOK	HORIZ.	- HORIZONTAL
HORIZ.	- HORIZONTAL	H.B.	- HORIZONTAL BRACE
H.B.	- HORIZONTAL BRACE	H.D.	- HOT-DIP
H.D.	- HOT-DIP	I.N.	- INCH
I.N.	- INCH	INFO.	- INFORMATION
INFO.	- INFORMATION	I.D.	- INSIDE DIAMETER
I.D.	- INSIDE DIAMETER	I.F.	- INSIDE FACE
I.F.	- INSIDE FACE	INT.	- INTERIOR
INT.	- INTERIOR	INTERM.	- INTERMEDIATE
INTERM.	- INTERMEDIATE	JT.	- JOINT
JT.	- JOINT	J.G.	- JOIST GIRDER
J.G.	- JOIST GIRDER	JST(S)	- JOIST(S)
JST(S)	- JOIST(S)	KLF	- KIP PER LINEAR FOOT
KLF	- KIP PER LINEAR FOOT	KSF	- KIP PER SQUARE FOOT
KSF	- KIP PER SQUARE FOOT	KSI	- KIP PER SQUARE INCH
KSI	- KIP PER SQUARE INCH	K	- KIPS (1000 LBS)
K	- KIPS (1000 LBS)	L	- LENGTH
L	- LENGTH	L.W.	- LIGHTWEIGHT
L.W.	- LIGHTWEIGHT	L.W.C.	- LIGHTWEIGHT CONCRETE
L.W.C.	- LIGHTWEIGHT CONCRETE	LL	- LIVE LOAD
LL	- LIVE LOAD	LOC.	- LOCATION
LOC.	- LOCATION	LLH	- LONG LEG HORIZONTAL
LLH	- LONG LEG HORIZONTAL	LLV	- LONG LEG VERTICAL
LLV	- LONG LEG VERTICAL	LSH	- LONG SIDE HORIZONTAL
LSH	- LONG SIDE HORIZONTAL	LSV	- LONG SIDE VERTICAL
LSV	- LONG SIDE VERTICAL	LSL	- LONG SLOTTED HOLE
LSL	- LONG SLOTTED HOLE	LONG	- LONGITUDINAL
LONG	- LONGITUDINAL	L.P.	- LOW POINT
L.P.	- LOW POINT	MFR.	- MANUFACTURE(R)
MFR.	- MANUFACTURE(R)	MAS.	- MASONRY
MAS.	- MASONRY	MCJ	- MASONRY CONTROL JOINT
MCJ	- MASONRY CONTROL JOINT	MAT.	- MATERIAL
MAT.	- MATERIAL	MAX.	- MAXIMUM
MAX.	- MAXIMUM	MECH.	- MECHANICAL
MECH.	- MECHANICAL	MEP	- MECHANICAL, ELECTRICAL, PLUMBING
MEP	- MECHANICAL, ELECTRICAL, PLUMBING	MTL	- METAL
MTL	- METAL	MEZZ.	- MEZZANINE
MEZZ.	- MEZZANINE	MID.	- MIDDLE
MID.	- MIDDLE	MIM.	- MINIMUM
MIM.	- MINIMUM	MISC.	- MISCELLANEOUS
MISC.	- MISCELLANEOUS	M	- MOMENT
M	- MOMENT	M.C.	- MOMENT CONNECTION(S)
M.C.	- MOMENT CONNECTION(S)	N.F.	- NEAR FACE

SPECIAL INSPECTIONS

- Special Inspections shall be performed in accordance with Chapter 17 of the 2018 International Building Code (IBC) by a Special Inspector hired by the Owner to perform the Special Inspections listed below. The Special Inspector shall be qualified by an approved agency according to the City of Mesquite's building official to perform the special inspections for which they will be undertaking. The Contractor shall coordinate with and notify the Special Inspector of all tests. The Special Inspector shall be responsible to verify that the items detailed in the Construction Documents were built accordingly and shall prepare, sign, and furnish inspection reports to the building official and the Architect for all time spent at the site. The Inspector shall bring discrepancies to the immediate attention of the General Contractor for correction. If the discrepancies are not corrected, the discrepancies shall be brought to the attention of the building official and to the Architect prior to the completion of that phase of the work. These special inspections are in addition to the other inspections listed in these Structural Notes or Project Specifications.
- Where structural load-bearing members and assemblies are shop fabricated, the Special Inspector shall verify that the fabricator maintains detailed fabrication and quality control procedures that provide a basis for inspection control of the workmanship and the fabricator's ability to conform to the Construction Documents and Referenced Standards, unless the fabricator is registered and approved to perform such work without special inspection.

VERIFICATION AND INSPECTION TASKS FOR WELDING OF STRUCTURAL STEEL ¹ (AISC 360-16 Table N5.4)					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to welding:				
YES	a. Welder qualification records and continuity records.	X	--		
YES	b. Welding procedure specifications (WPSs) available	X	--		
YES	c. Manufacturer certifications for welding consumables available	X	--		
YES	d. Material identification (type/grade) ²	--	X		
YES	e. Welder identification system ²	--	X		
YES	f. Fit-up of groove welds (including joint geometry) ² 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location) 5) Backing type and fit (if applicable)	--	X	AISC 360-16 N5.4-1 AWS D1.1	1705.2.1
YES	g. Fit-up of CJP groove welds of HSS T-, Y- and K-joints without backing (including joint geometry) 1) Joint preparations 2) Dimensions (alignment, root opening, root face, bevel) 3) Cleanliness (condition of steel surfaces) 4) Tacking (tack weld quality and location)	X	--		
YES	h. Configuration and finish of access holes. ²	--	X		
YES	i. Fit-up of fillet welds ² 1) Dimensions (alignment, gaps at root) 2) Cleanliness (condition of steel surfaces) 3) Tacking (tack weld quality and location)	--	X		
YES	j. Check welding equipment	--	X		
	2. Inspection tasks during welding:				
YES	a. Control and handling of welding consumables ² 1) Packaging 2) Exposure control	--	X		
YES	b. No welding over cracked tack welds ²	--	X		
YES	c. Environmental conditions ² 1) Wind speed within limits 2) Precipitation and temperature	--	X		
YES	d. WPS followed ² 1) Settings on weld equipment 2) Travel speed 3) Selected welding materials 4) Shielding gas type/flow rate 5) Preheat applied 6) Interpass temperature maintained (min./max.) 7) Proper position (F, V, H, OH)	--	X	AISC 360-16 N5.4-2 AWS D1.1	1705.2.1
YES	e. Welding techniques ² 1) Interpass and final cleaning 2) Each pass within profile limitations 3) Each pass meets quality requirements	--	X		
YES	f. Placement and installation of steel headed stud anchors	X	--		
	3. Inspection tasks after welding:				
YES	a. Welds cleaned	--	X		
YES	b. Size, length and location of welds	X	--		
YES	c. Welds meet visual acceptance criteria 1) Crack prohibition 2) Weld/base-metal fusion 3) Crater cross section 4) Weld profiles 5) Weld size 6) Undercut 7) Porosity	X	--	AISC 360-16 N5.4-3 AWS D1.1	1705.2.1
YES	d. Arc strikes	X	--		
YES	e. k-area ³	X	--		
YES	f. Weld access holes in rolled heavy shapes and built-up heavy shapes ⁴	X	--		
YES	g. Backing removed and weld tabs removed (if required)	X	--		
YES	h. Repair activities	X	--		
YES	i. Document acceptance or rejection of welded joint or member	X	--		
YES	j. No prohibited welds have been added without the approval of the EOR	X	--		

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 and assigned to the Quality Control Inspector (QCI).
- Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.
- When welding of doubler plates, continuity plates or stiffeners has been performed in the k-area, visually inspect the web k-area for cracks within 3 in. (75 mm) of the weld.
- After rolled heavy shapes and built-up heavy shapes are welded, visually inspect the weld access hole for cracks.

VERIFICATION AND INSPECTION TASKS FOR BOLTING STRUCTURAL STEEL ¹ (AISC 360-16 Tables N5.6)					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection tasks prior to bolting:				
YES	a. Manufacturer's certifications available for fastener materials	X	--		
YES	b. Fasteners marked in accordance with ASTM requirements	--	X		
YES	c. Correct fasteners selected for the joint detail (grade, type, bolt length if threads are to be excluded from shear plane) ²	--	X		
YES	d. Correct bolting procedure selected for joint detail ²	--	X	AISC 360-16 N5.6-1	1705.2.1
YES	e. Connecting elements, including the appropriate faying surface condition and hole preparation, if specified, meet applicable requirements	--	X		
YES	f. Pre-installation verification testing by installation personnel observed and documented for fastener assemblies and methods used	--	X		
YES	g. Proper storage provided for bolts, nuts, washers and other fastener components	--	X		
	2. Inspection tasks during bolting:				
YES	a. Fastener assemblies placed in all holes and washers and nuts are positioned as required ²	--	X	AISC 360-16 N5.6-2	1705.2.1
YES	b. Joint brought to the snug-tight condition prior to the pretensioning operation ²	--	X		
YES	c. Fastener component not turned by the wrench prevented from rotating. ²	--	X		
YES	d. Fasteners are pretensioned in accordance with the RCSC Specification, progressing systematically from the most rigid point toward the free edges	--	X		
	3. Inspection tasks after bolting:				
YES	a. Document acceptance or rejection of bolted connections	X	--	AISC 360-16 N5.6-3	1705.2.1

- Inspection tasks noted in this table are the responsibility of the Special Inspector or Quality Assurance Inspector (QAI). The fabricator and erector are responsible for all inspection tasks indicated in AISC 360-16 Section N5 and assigned to the Quality Control Inspector (QCI).
- Inspection tasks may be coordinated with the fabricator or erector's Quality Control Inspector (QCI) where indicated with this footnote. All other tasks shall be performed by the Special Inspector.

VERIFICATION AND INSPECTION OF STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (IBC 1705.2.2)					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
	1. Inspection or Execution Tasks Prior to Deck Placement				
YES	a. Verify compliance of materials (deck and all deck accessories) with construction documents, including profiles, material properties, and base metal thickness	X	--	SDI QA/QC-2017 Table 1.1	IBC 1705.2.2
YES	b. Document acceptance or rejection of deck and deck accessories	X	--		
	2. Inspection or Execution Tasks After Deck Placement				
YES	a. Verify compliance of deck and all deck accessories installation with construction documents	X	--		
YES	b. Verify deck materials are represented by the mill certifications that comply with the construction documents	X	--	SDI QA/QC-2017 Table 1.2	IBC 1705.2.2
YES	c. Document acceptance or rejection of installation of deck and deck accessories	X	--		
	3. Inspection or Execution Tasks Prior to Welding				
YES	a. Welding procedure specifications (WPS) available	X	--		
YES	b. Manufacturer certifications for welding consumables available	X	--	SDI QA/QC-2017 Table 1.3	IBC 1705.2.2
YES	c. Material identification (type/grade)	--	X		
YES	d. Check welding equipment	--	X		
	4. Inspection or Execution Tasks During Welding				
YES	a. Use of qualified welders	--	X		
YES	b. Control and handling of welding consumables	--	X	SDI QA/QC-2017 Table 1.4	IBC 1705.2.2
YES	c. Environmental conditions (wind speed, moisture, temperature)	--	X		
YES	d. WPS followed	--	X		
	5. Inspection or Execution Tasks After Welding				
YES	a. Verify size and location of welds, including support, sideslab, and perimeter welds	X	--		
YES	b. Welds meet visual acceptance criteria	X	--	SDI QA/QC-2017 Table 1.5	IBC 1705.2.2
YES	c. Verify repair activities	X	--		
YES	d. Document acceptance or rejection of welds	X	--		
	6. Inspection or Execution Tasks Prior to Mechanical Fastening				
YES	a. Manufacturer installation instructions available for mechanical fasteners	X	--		
YES	b. Proper tools available for fasteners installation	--	X	SDI QA/QC-2017 Table 1.6	IBC 1705.2.2
YES	c. Proper storage for mechanical fasteners	--	X		
	7. Inspection or Execution Tasks During Mechanical Fastening				
YES	a. Fasteners are positioned as required	--	X	SDI QA/QC-2017 Table 1.7	IBC 1705.2.2
YES	b. Fasteners are installed in accordance with manufacturer's instructions	--	X		
	8. Inspection or Execution Tasks After Mechanical Fastening				
YES	a. Check spacing, type, and installation of support fasteners	X	--		
YES	b. Check spacing, type, and installation of sidelap fasteners	X	--		
YES	c. Check spacing, type, and installation of perimeter fasteners	X	--	SDI QA/QC-2017 Table 1.8	IBC 1705.2.2
YES	d. Verify repair activities	X	--		
YES	e. Document acceptance or rejection of mechanical fasteners	X	--		

VERIFICATION AND INSPECTION OF CONCRETE CONSTRUCTION (IBC TABLE 1705.3)					
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Inspect reinforcement, including prestressing tendons, and verify placement.	--	X	ACI 318 Ch. 20, 25.2, 25.3, 26.6.1-26.6.3	1908.4
	2. Reinforcing bar welding:				
NO	a. Verify weldability of reinforcing bars other than ASTM A706	--	X	AWS D14 ACI 318: 26.6.4	--
NO	b. Inspect single-pass fillet welds, maximum 5/16"	--	X		
NO	c. Inspect all other welds.	X	--		
YES	3. Inspect anchors and dowels cast in concrete.	--	X	ACI 318: 17.8.2	--
	4. Inspect post-installed anchors and dowels in hardened concrete.				
YES	a. Mechanical anchors and adhesive anchors and dowels installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X ¹	--	ACI 318: 17.8.2.4	--
YES	b. Mechanical anchors and adhesive anchors and dowels not defined in 4.a.	--	X ¹	ACI 318: 17.8.2	--
YES	5. Verify use of required design mix.	--	X	ACI 318: Ch. 19, 26.4.3, 26.4.4	1904.1, 1904.2, 1908.2, 1908.3
YES	6. Prior to concrete placement, fabricate specimens for strength tests, perform slump and air content tests, and determine the temperature of the concrete.	X	--	ASTM C172 ASTM C31 ACI 318: 26.5, 26.12	1908.10
YES	7. Inspect concrete and shotcrete placement for proper application techniques.	X	--	ACI 318: 26.5	1908.6, 1908.7, 1908.8
YES	8. Verify maintenance of specified curing temperature and techniques	--	X	ACI 318: 26.5.3-26.5.5	1908.9
	9. Inspection of prestressed concrete:				
NO	a. Application of prestressing forces	X	--	ACI 318: 26.10	--
NO	b. Grouting of bonded prestressing tendons	X	--	ACI 318: 26.10	--
NO	10. Inspect erection of precast concrete members.	--	X	ACI 318: 26.9	--
YES	11. Verify in-situ concrete strength, prior to stressing of tendons in post-tensioned concrete and prior to removal of shores and forms from beams and structural slabs.	--	X	ACI 318: 26.11.2	--
YES	12. Inspect formwork for shape, location and dimensions of the concrete member being formed.	--	X	ACI 318: 26.11.1, 2(b)	--

- Post-installed anchors and dowels shall be either (a.) visually inspected during installation, or (b.) load tested after installation as noted below:
 - Visual inspections shall be performed during the installation by a Special Inspector certified by ACI as a "Post-Installed Concrete Anchor Installation Inspector". Submit a report to the licensed design professional and building official documenting that the work covered by the report has been performed and that the materials used and the installation procedures used conform with the approved construction documents and the Manufacturer's Printed Installation Instructions.
 - Load testing shall comply with the following:
 - Test at least ten (10) percent of each type and diameter of post-installed anchors. If one or more anchors fail the test, all post-installed anchors of the same diameter and type installed the same day as the failed anchor shall be load tested at the contractor's expense. If additional anchors fail, the engineer may require testing all anchors of the same diameter and type already installed at the contractor's expense.
 - Tension testing shall comply with ASTM E488
 - Test post-installed anchors to 50 percent of ultimate tensile capacity of post-installed anchor.
 - Apply test loads with a calibrated hydraulic ram.
 - Displacement of post-installed anchors shall not exceed D/10, where D is nominal diameter of anchor being tested.
 - Correct defective work by removing and replacing or correcting, as directed by engineer.
 - Contractor shall pay for all corrections, engineering, and additional testing associated with failed anchor tests.
 - Testing agency shall submit test results to contractor and engineer with 24 hours of completion of test.

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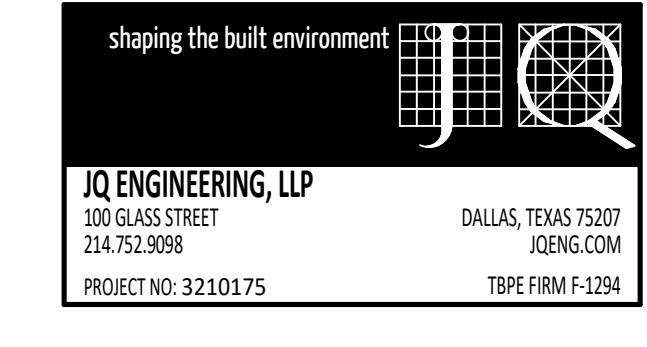


Revisions:

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S1.03



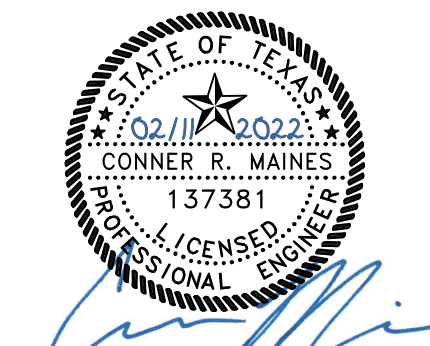
LEVEL 2 VERIFICATION AND INSPECTION OF MASONRY CONSTRUCTION (TMS 602-16 Table 3 & Table 4)				
SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY		REFERENCE FOR CRITERIA
		CONTINUOUS	PERIODIC	
MINIMUM TESTS				
YES	Prior to construction, verification of compliance of submittals.	--	--	TMS 602-16 Art. 1.5
YES	Prior to construction, verification of f'm and fAAC, except where specifically exempted by the code.	--	--	TMS 602-16 Art. 1.4 b
YES	During construction, verification of slump flow and Visual Stability Index (VSI) when self-consolidating grout is delivered to the project site.	--	--	TMS 602-16 Art. 1.5 & 1.6.3
INSPECTION TASKS				
	1. As masonry construction begins, verify that the following are in compliance:			
YES	a. Proportions of site-prepared mortar	--	X	TMS 602-16 Art. 2.1, 2.6 A, & 2.6 C
NO	b. Grade and size of prestressing tendons and anchorages	--	X	TMS 602-16 Art. 2.4 B & 2.4 H
YES	c. Grade, type and size of reinforcement and anchor bolts, and prestressing tendons and anchorages	--	X	TMS 602-16 Art. 3.4 & 3.6 A
NO	d. Prestressing technique	--	X	TMS 602-16 Art. 3.6 B
NO	e. Properties of thin-bed mortar for AAC masonry	X ¹	X ²	TMS 602-16 Art. 2.1 C.1
YES	f. Sample panel construction	--	X	TMS 602-16 Art. 1.6 D
	2. Prior to grouting, verify that the following are in compliance:			
YES	a. Grout space	--	X	TMS 602-16 Art. 3.2 D & 3.2 F
NO	b. Placement of prestressing tendons and anchorages	--	X	TMS 602-16 Art. 2.4 & 3.6, TMS 402-16 Sec. 10.8 & 10.9
YES	c. Placement of reinforcement, connectors, and anchor bolts	--	X	TMS 602-16 Art. 3.2 E & 3.4, TMS 402-16 Sec. 6.1, 6.3.1, 6.3.6, & 6.3.7
YES	d. Proportions of site-prepared grout and prestressing grout for bonded tendons	--	X	TMS 602-16 Art. 2.6 B & 2.4 G.1.b
	3. Verify compliance of the following during construction:			
YES	a. Materials and procedures with the approved submittals	--	X	TMS 602-16 Art. 1.5
YES	b. Placement of masonry units and mortar joint construction	--	X	TMS 602-16 Art. 3.3 B
YES	c. Size and location of structural members	--	X	TMS 602-16 Art. 3.3 F
YES	d. Type, size, and location of anchors, including other details of anchorage of masonry to structural members, frames, or other construction	--	X	TMS 402-16 Sec. 1.2.1 (e), 6.2.1, & 6.3.1
YES	e. Welding of reinforcement	X	--	TMS 402-16 Sec. 6.1.6.1.2
YES	f. Preparation, construction and protection of masonry during cold weather (temperature below 40°F (4.4°C)) or hot weather (temperature above 90°F (32.2°C))	--	X	TMS 602-16 Art. 1.8 C & 1.8 D
NO	g. Application and measurement of prestressing force	X	--	TMS 602-16 Art. 3.6 B
NO	h. Placement of grout and prestressing grout for bonded tendons is in compliance	X	--	TMS 602-16 Art. 3.5 & 3.6 C
NO	i. Placement of AAC masonry units and construction of thin-bed mortar joints	X ¹	X ²	TMS 602-16 Art. 3.3 B.9 & 3.3 F.1.b
YES	4. Observe preparation of grout specimens, mortar specimens and/or prisms	--	X	TMS 602-16 Art. 1.4 B.2.a.3, 1.4 B.2.b.3, 1.4 B.2.c.3, 1.4 B.3, & 1.4 B.4
	5. Inspect post-installed anchors and dowels in masonry			
YES	a. Mechanical anchors and adhesive anchors and dowels installed in horizontally or upwardly inclined orientations to resist sustained tension loads.	X ³	--	Manufacturer's specifications & printed installation instructions
YES	b. Mechanical anchors and adhesive anchors and dowels not defined by 5 a.	--	X ³	Manufacturer's specifications & printed installation instructions

1. Required for the first 5,000 square feet (465 square meters) of AAC masonry.
2. Required after the first 5,000 square feet (465 square meters) of AAC masonry.
3. Post-installed anchors and dowels shall be either (a.) visually inspected during installation, or (b.) load tested after installation as noted below:
 - a. Visual inspections shall be performed during the installation by a Special Inspector certified by ACI as a "Post-Installed Concrete Anchor Installation Inspector". Submit a report to the licensed design professional and building official documenting that the work covered by the report has been performed and that the materials used and the installation procedures used conform with the approved construction documents and the Manufacturer's Printed Installation Instructions.
 - b. Load Testing shall comply with the following:
 - i. Test at least ten (10) percent of each type and diameter of post-installed anchors. If one or more anchors fail the test, all post-installed anchors of the same diameter and type installed the same day as the failed anchor shall be load tested at the contractor's expense. If additional anchors fail, the engineer may require testing all anchors of the same diameter and type already installed at the contractor's expense.
 - ii. Tension testing shall comply with ASTM E488
 - iii. Test post-installed anchors to 50 percent of ultimate tensile capacity of post-installed anchor.
 - iv. Apply test loads with a calibrated hydraulic ram.
 - v. Displacement of post-installed anchors shall not exceed D/10, where D is nominal diameter of anchor being tested.
 - vi. Correct defective work by removing and replacing or correcting, as directed by engineer.
 - vii. Contractor shall pay for all corrections, engineering, and additional testing associated with failed anchor tests.
 - viii. Testing agency shall submit test results to contractor and engineer with 24 hours of completion of test.

VERIFICATION AND INSPECTION TASKS FOR STRUCTURAL COLD-FORMED STEEL FRAMING					
SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY		REFERENCED STANDARD	IBC REFERENCE
		CONTINUOUS	PERIODIC		
YES	1. Fabrication process of prefabricated cold-formed structural elements and assemblies shall be in accordance with IBC 1704.2.5 and local amendments	--	X	--	1704.2.5
	2. Inspect lateral resisting elements, including shear walls, braces, diaphragms, collectors (drag struts), and hold-downs for the following:				
YES	a. Member size, gauge thickness, and materials.	--	X		
YES	b. Size of framing members at adjoining panel edges for diaphragms and shear walls.	--	X		1705.11.2 1705.12.3
YES	c. Screw diameter, length, and spacing for diaphragms and shear walls.	--	X		
YES	d. Bolting, anchoring, and other fastening of components.	--	X		
YES	e. Welding operations.	--	X		
	3. Trusses with clear span 60'-0" or greater, inspector shall verify the following:				
YES	a. Temporary installation restraint/bracing installed per approved truss submittal package.	X	--	--	1705.2.4
YES	b. Permanent individual truss member restraint/bracing installed per approved truss submittal package.	X	--		

VERIFICATION AND INSPECTION OF SOILS (IBC TABLE 1705.6)			
SPECIAL INSPECTION REQUIRED	VERIFICATION, INSPECTION AND TESTING	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Verify materials below shallow foundations are adequate to achieve the design bearing capacity.	--	X
YES	2. Verify excavations are extended to proper depth and have reached proper material.	--	X
YES	3. Perform classification and testing of compacted fill materials.	--	X
YES	4. Verify use of proper materials, densities and lift thicknesses during placement and compaction of compacted fill.	X	--
YES	5. Prior to placement of compacted fill, inspect subgrade and verify that site has been prepared properly.	--	X

VERIFICATION AND INSPECTION OF CAST-IN-PLACE DEEP FOUNDATION ELEMENTS (IBC TABLE 1705.8)			
SPECIAL INSPECTION REQUIRED	VERIFICATION AND INSPECTION	INSPECTION FREQUENCY	
		CONTINUOUS	PERIODIC
YES	1. Inspect drilling operations and maintain complete and accurate records for each element.	X	--
YES	2. Verify placement locations and plumbness, confirm element diameters, bell diameters (if applicable), lengths, embedment into bedrock (if applicable) and adequate end bearing strata capacity. Record concrete or grout volumes.	X	--
YES	3. For concrete elements, perform additional inspections in accordance with IBC Section 1705.3	--	--



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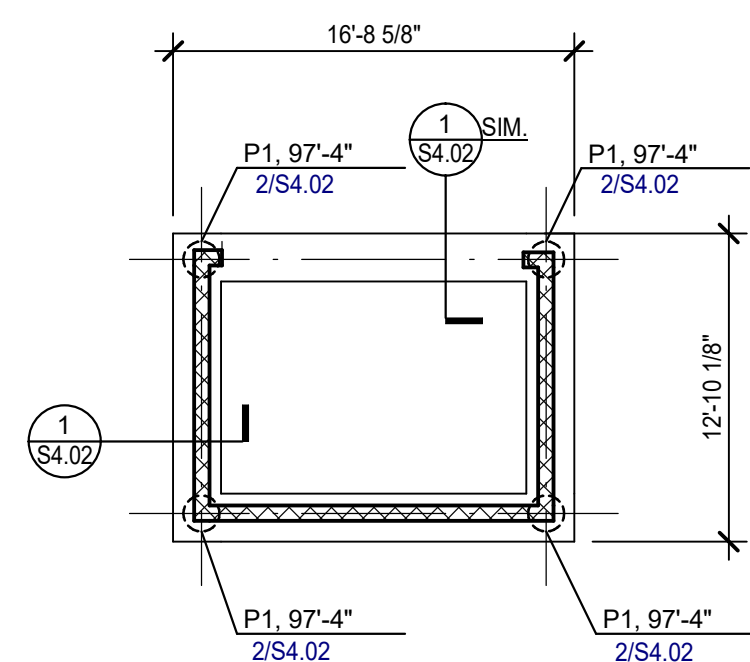
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Sheet Title:
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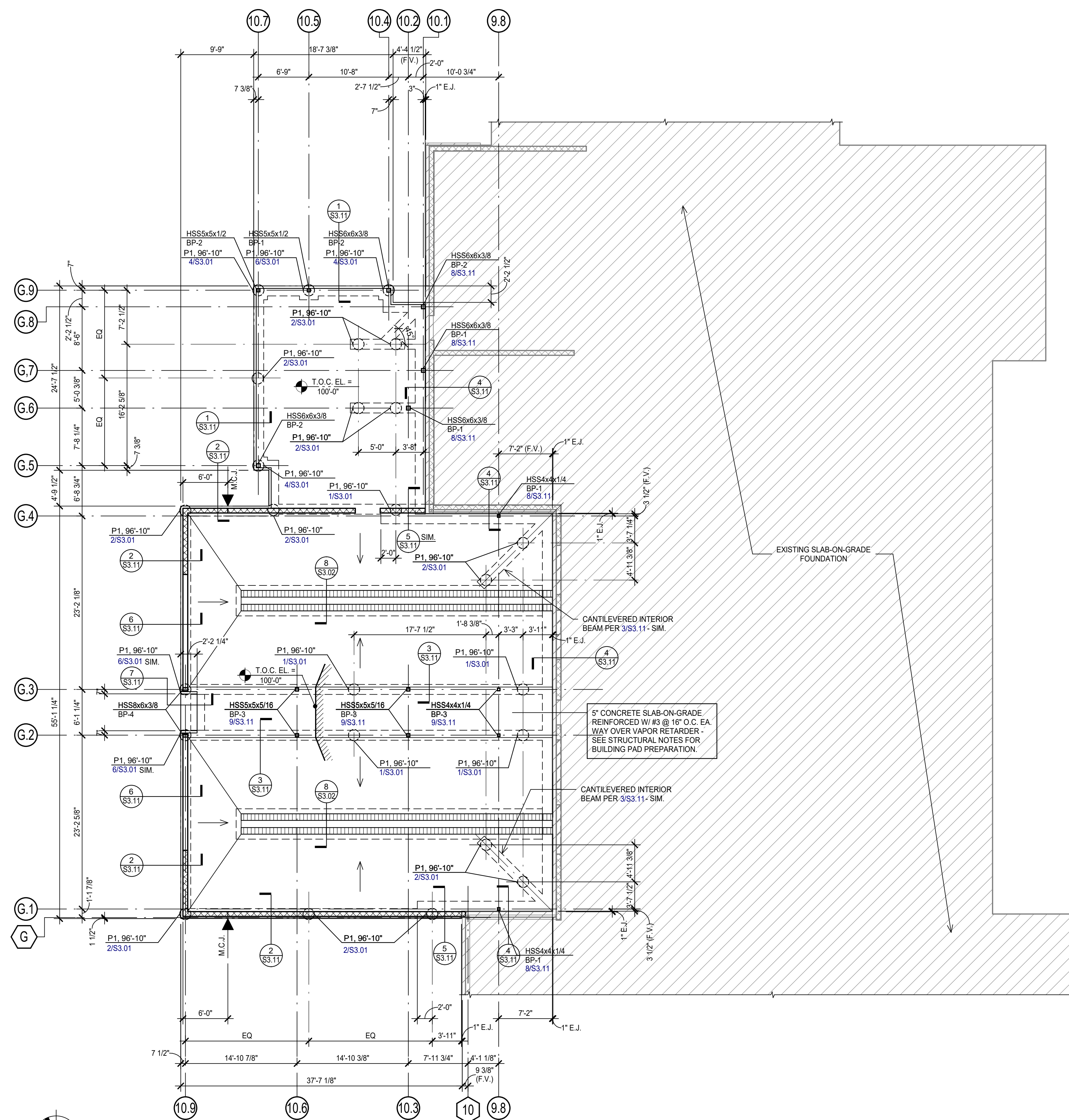
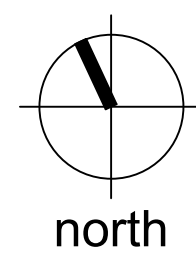
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2 DUMPSTER FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE. COORDINATE SLAB ELEVATIONS WITH CIVIL GRADING / TOP OF CONCRETE.
 2. COORDINATE FINAL TOP OF PIER ELEVATIONS WITH FINAL CIVIL GRADING PLANS.
 3. SEE ARCHITECTURAL DRAWINGS FOR FINAL LOCATIONS, ORIENTATIONS, AND DIMENSIONS.
 4. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
- SHEET INDEX:
 STRUCTURAL NOTES -S1.01, S1.02
 TYPICAL DETAILS -S3.01, S3.02
 PIER SCHEDULE -S3.01

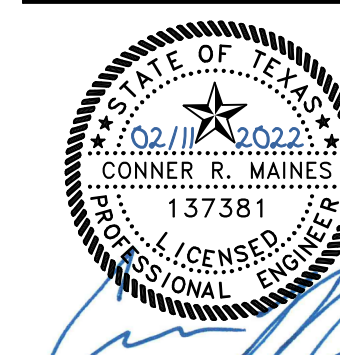
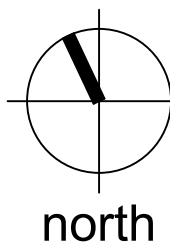


1 FOUNDATION PLAN
 SCALE: 1/8" = 1'-0"

PLAN NOTES:

1. FINISH FLOOR ELEVATION = 100'-0", UNLESS NOTED OTHERWISE. EXISTING FOUNDATION ELEVATIONS 488.00' = 100'-0"
2. TOP OF CONCRETE ELEVATION (T.O.C. EL.) = FINISH FLOOR. UNLESS RECESSED TO RECEIVE FLOORING MATERIALS.
3. REFER TO THE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FLOOR RECESSES, DROPS AND SLOPES NOT DIMENSIONED ON PLAN.
4. CENTERLINES OF PIERS NOT SPECIFICALLY LOCATED ON PLAN BY NOTE OR DIMENSION SHALL BE LOCATED AS FOLLOWS:
 - A. SUPPORTING FREESTANDING COLUMNS: CENTERLINES OF COLUMN.
 - B. SUPPORTING GRADEBEAMS AND WALLS: CENTERLINE OF GRADEBEAM OR WALL IN ONE DIRECTION. GRID OR AS NOTED IN OTHER DIRECTION. AT CORNER CONDITIONS: CENTERLINES OF GRADEBEAMS OR WALLS.
 - C. COLUMNS EMBEDDED IN GRADEBEAMS OR WALLS (PILASTERS): CENTERLINES OF THE COLUMN.
5. CONTRACTOR TO VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO DRILLING PIERS.
6. TYPICAL CONCRETE SLAB THICKNESS IS 5" (OVERALL), UNLESS NOTED OTHERWISE.

SHEET INDEX:
 STRUCTURAL NOTES -S1.01, S1.02
 TYPICAL DETAILS -S3.01, S3.02
 PIER SCHEDULE -S3.01
 BASE PLATE SCHEDULE -S5.01



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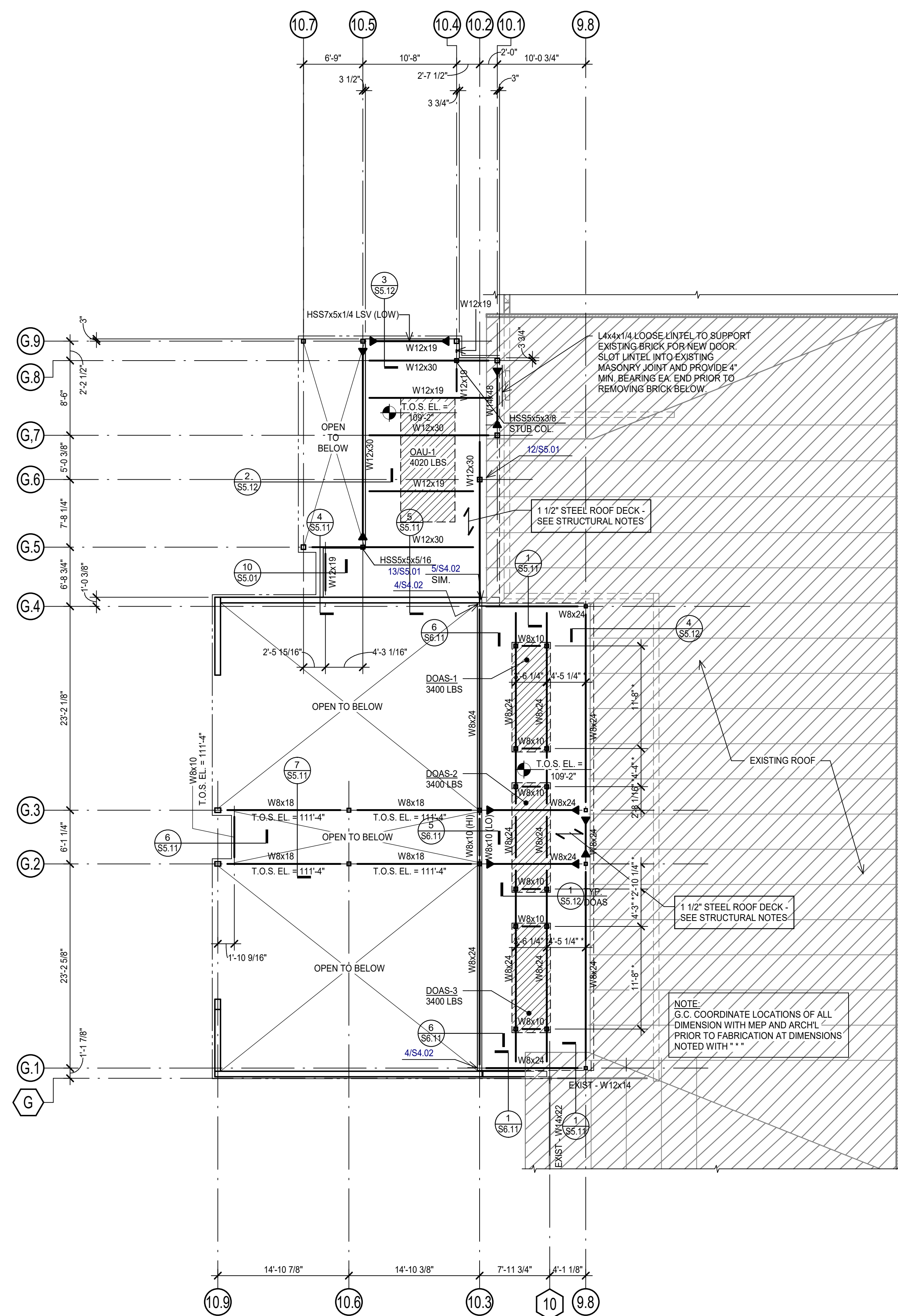
Drawn By:
 JRP

Checked By:
 CRM

Sheet Title:
 FOUNDATION PLAN

Drawing No.

S2.01



1 LOW ROOF FRAMING PLAN
 SCALE: 1/8" = 1'-0"

- PLAN NOTES:**
- TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
 - TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
 - SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
 - STEEL BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
- SHEET INDEX:
 STRUCTURAL NOTES -S1.01, S1.02
 TYPICAL DETAILS -S4.01, S5.01, S5.02, S6.01

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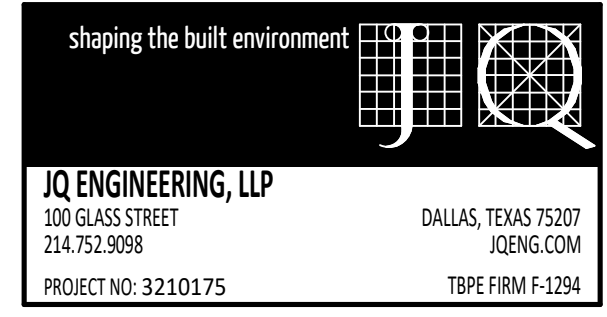
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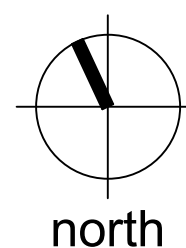
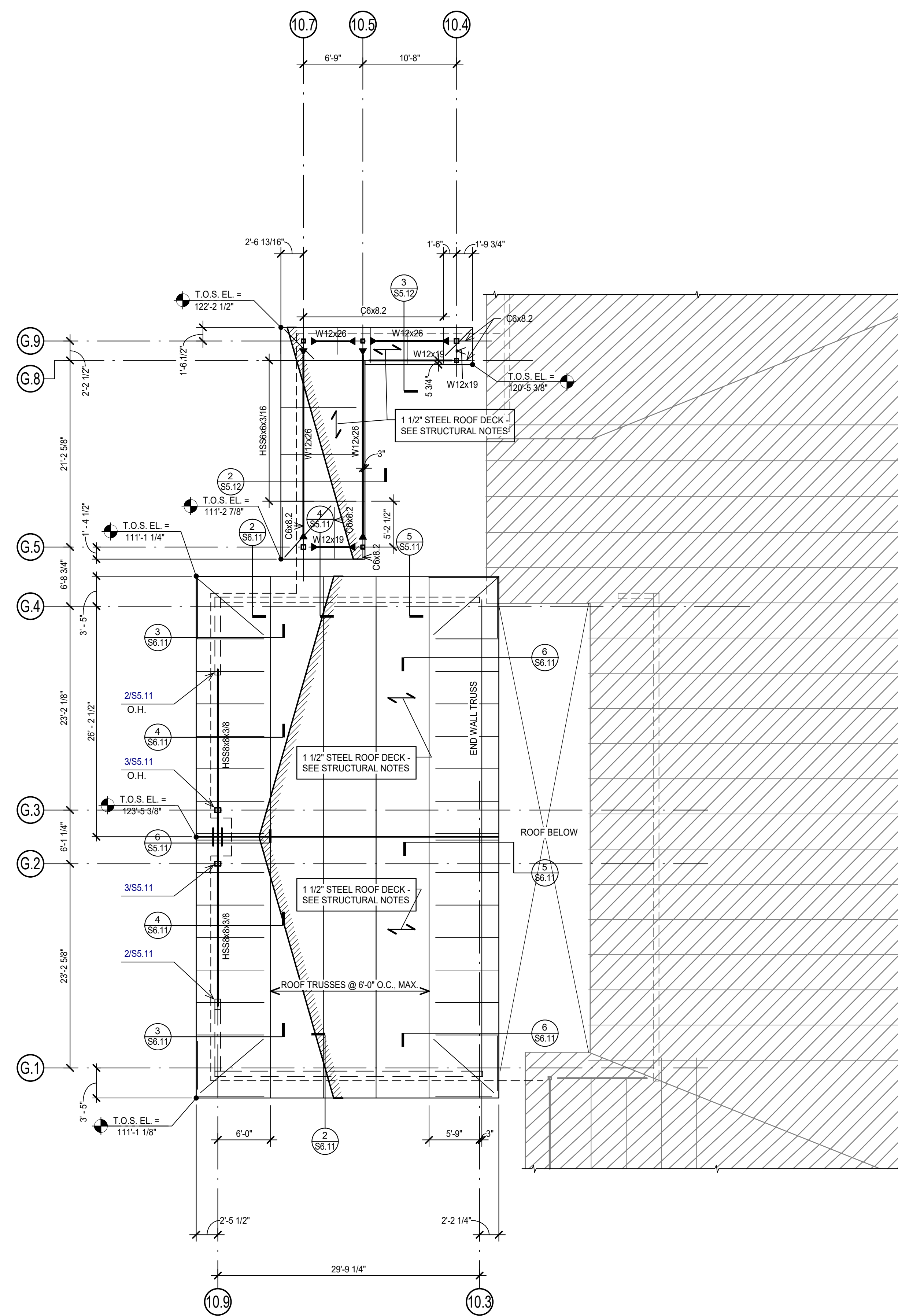
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Sheet Title:
 LOW ROOF FRAMING PLAN

Drawing No.

S2.02





1 HIGH ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

- PLAN NOTES:**
- TOP OF ROOF STRUCTURE IS SLOPED FOR DRAINAGE. SEE ELEVATIONS NOTED ON THE PLAN. SLOPES SHALL BE UNIFORM BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.
 - TOP OF STEEL ELEVATION (T.O.S. EL.) = TOP OF BEAM, JOIST, OR MEMBER SUPPORTING ROOF DECK = BOTTOM OF DECK.
 - SEE MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR LOCATION AND DIMENSIONS OF ROOF PENETRATIONS NOT DIMENSIONED ON PLAN. CONTRACTOR TO COORDINATE.
 - STEEL BEAMS SHALL BE CENTERED ON AND EQUALLY SPACED BETWEEN COLUMN CENTERLINES, UNLESS NOTED OTHERWISE.

SHEET INDEX

STRUCTURAL NOTES	-S1.01, S1.02
TYPICAL DETAILS	-S4.01, S5.01, S5.02, S6.01



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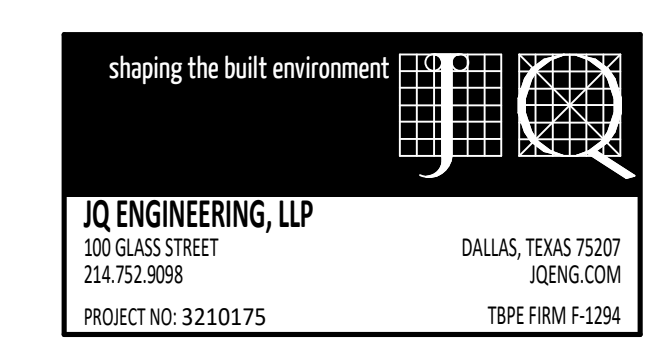
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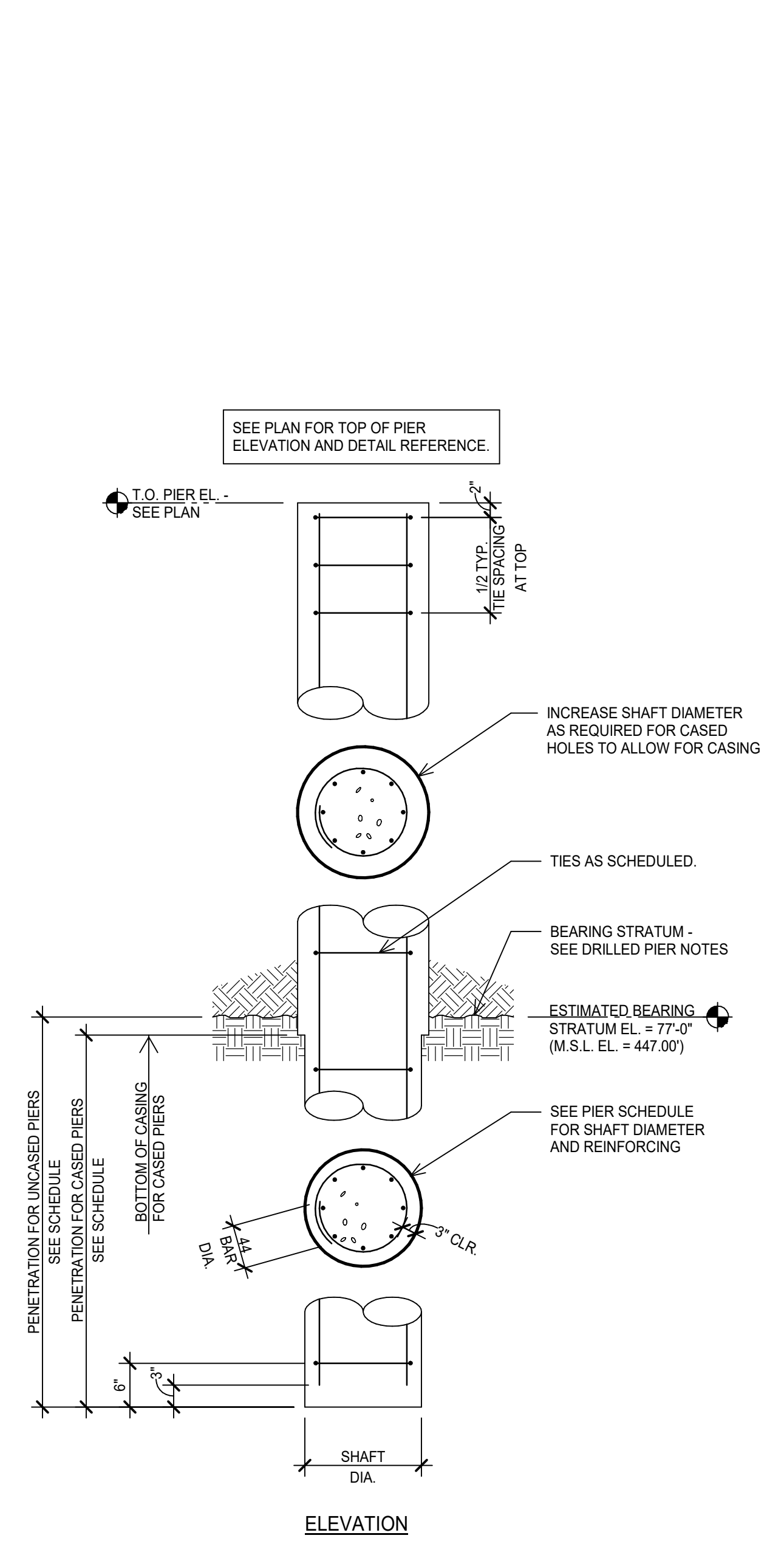
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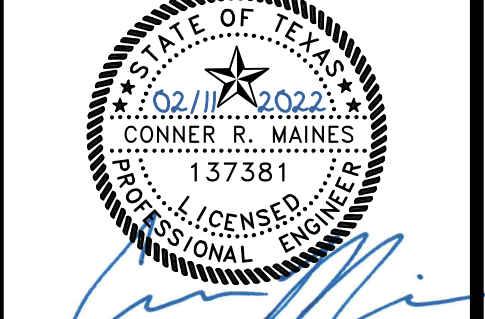
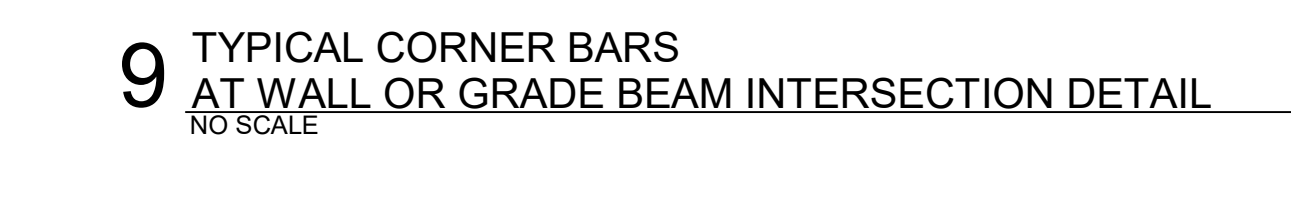
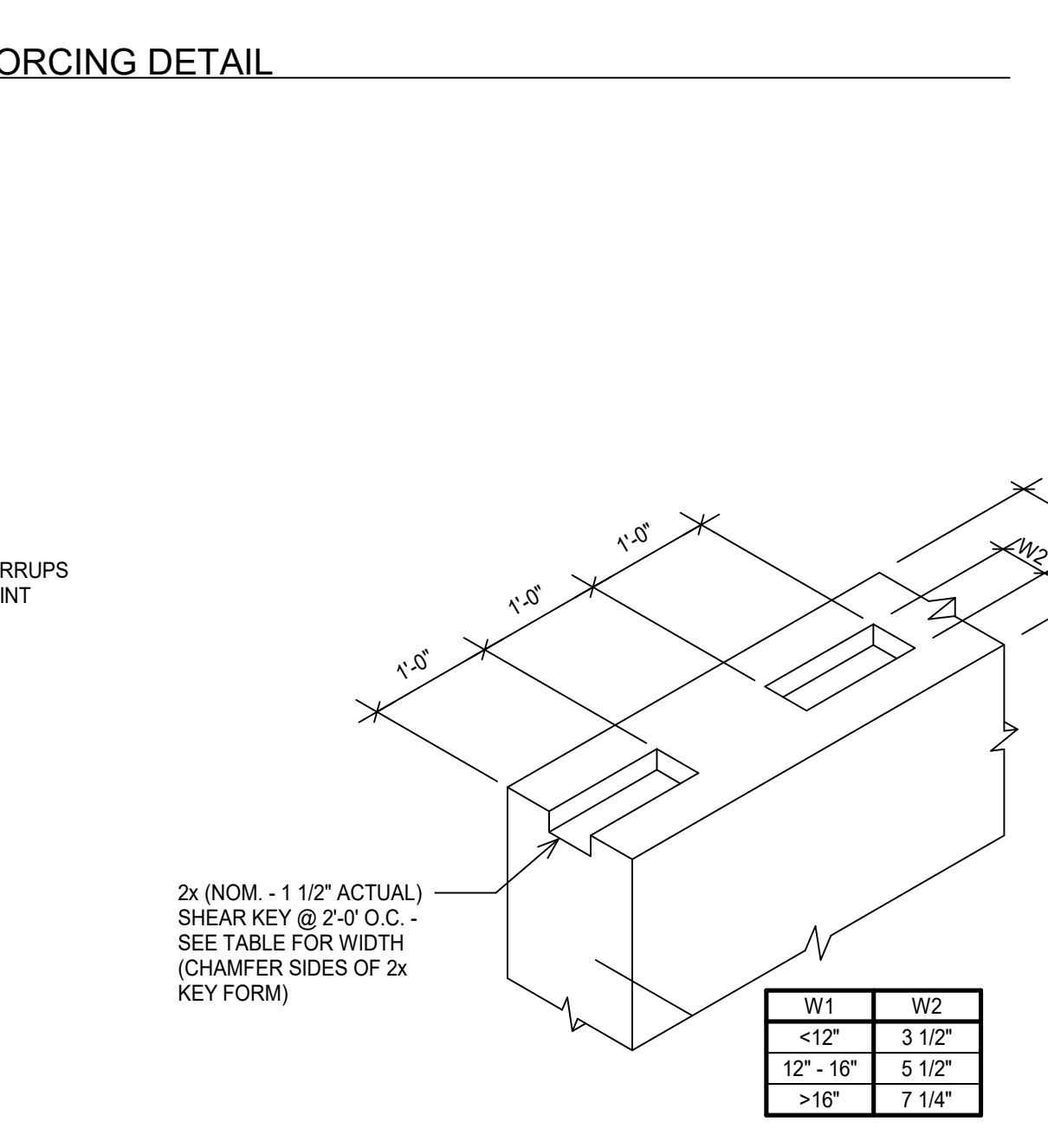
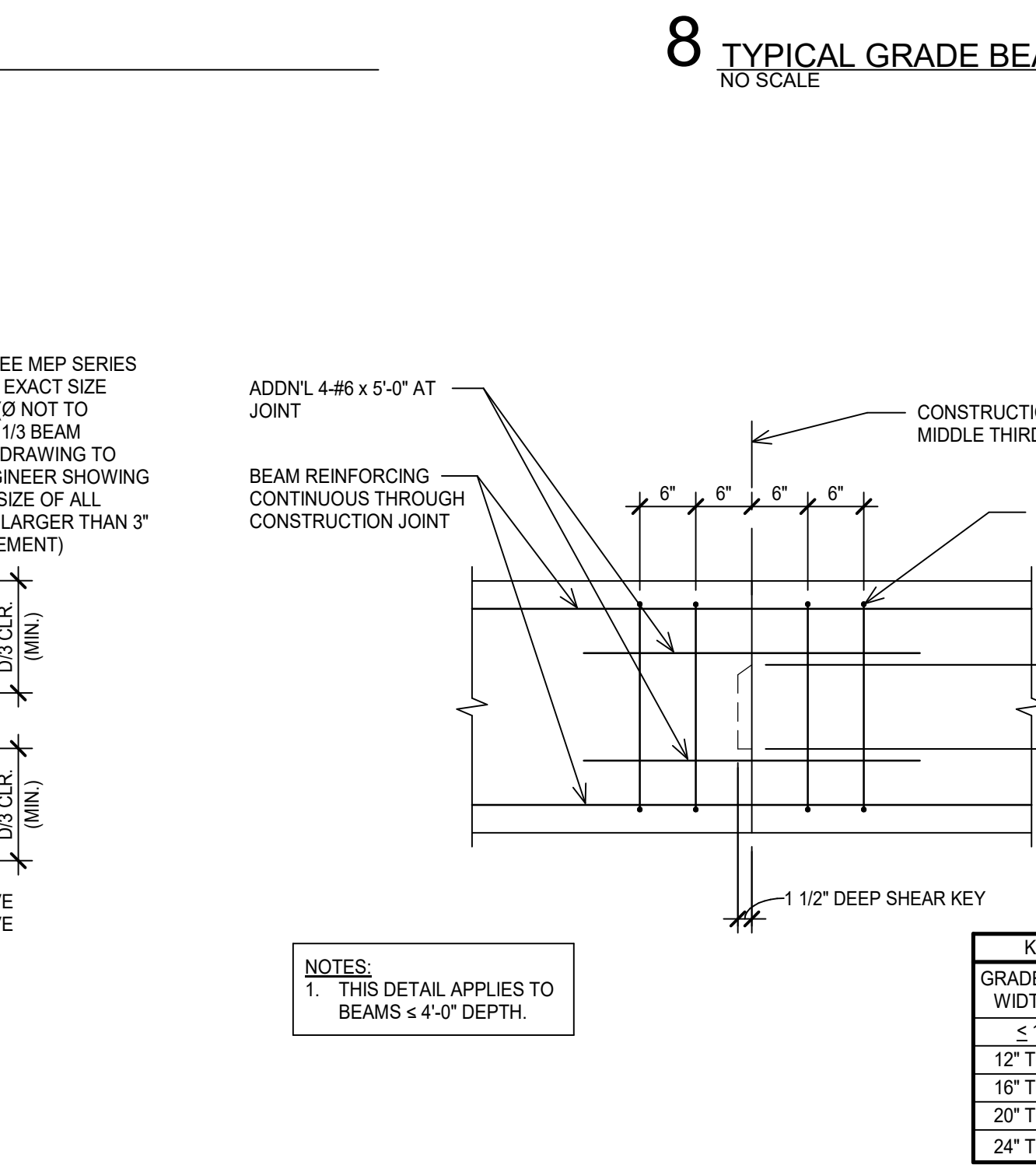
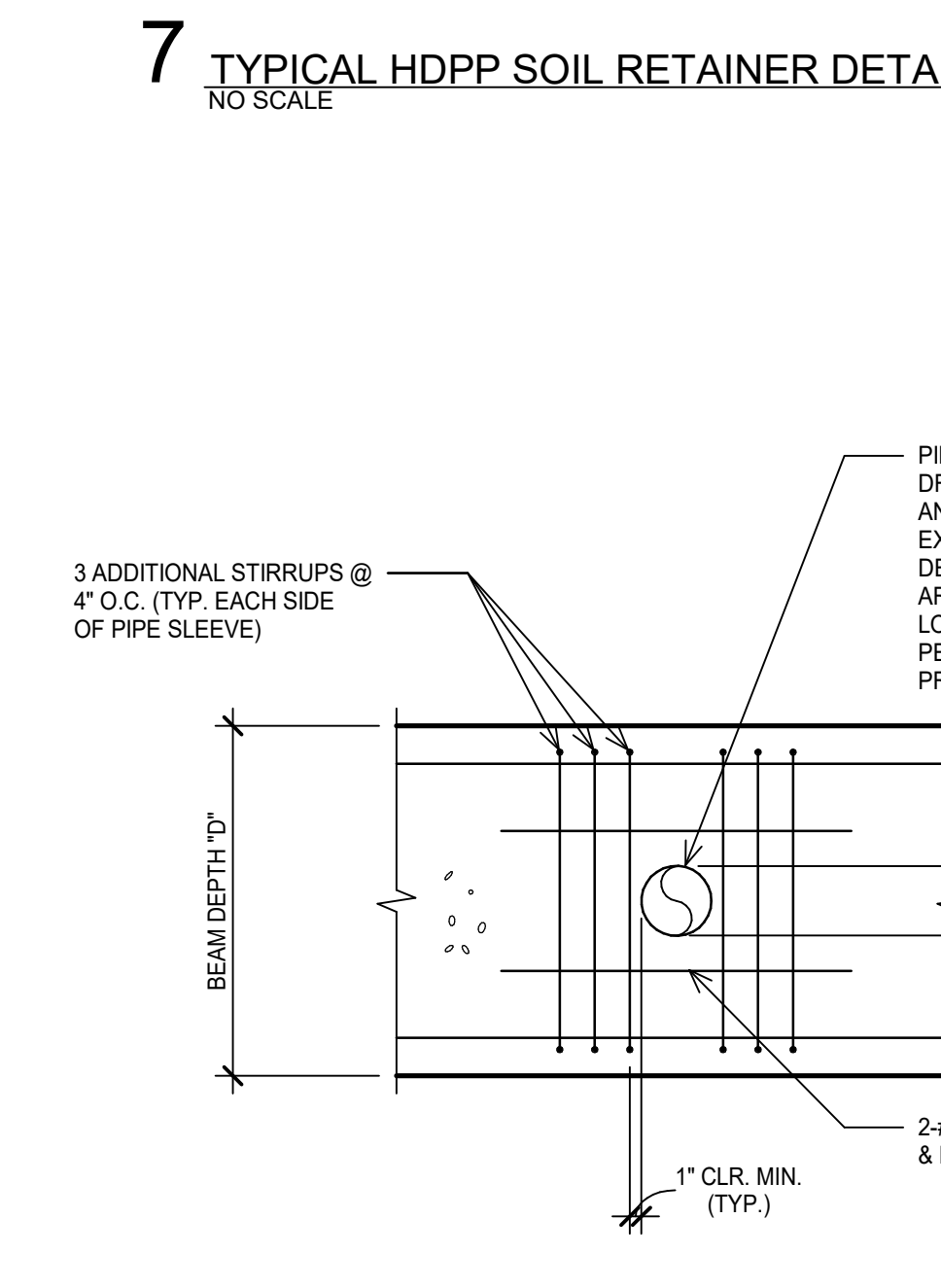
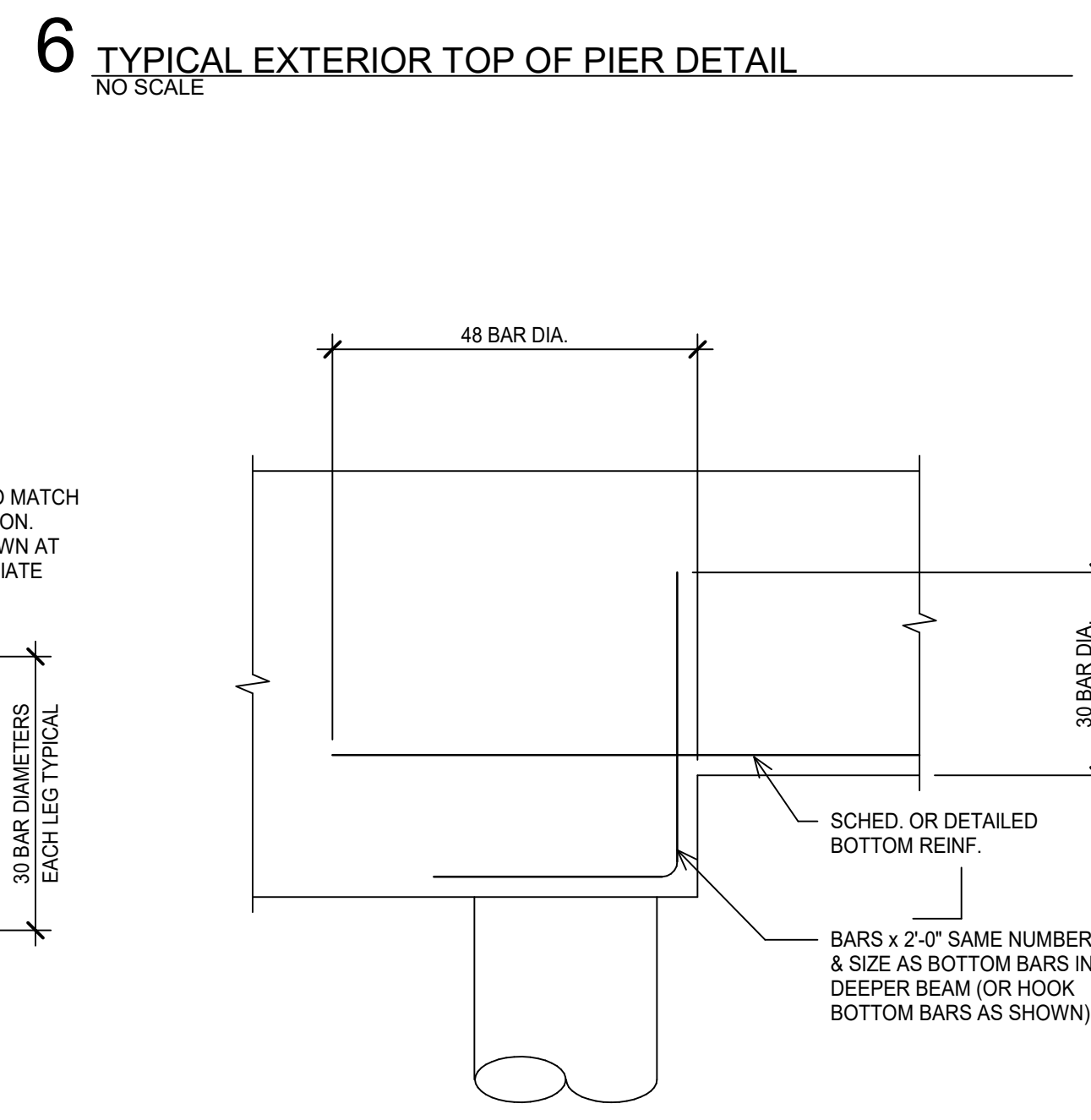
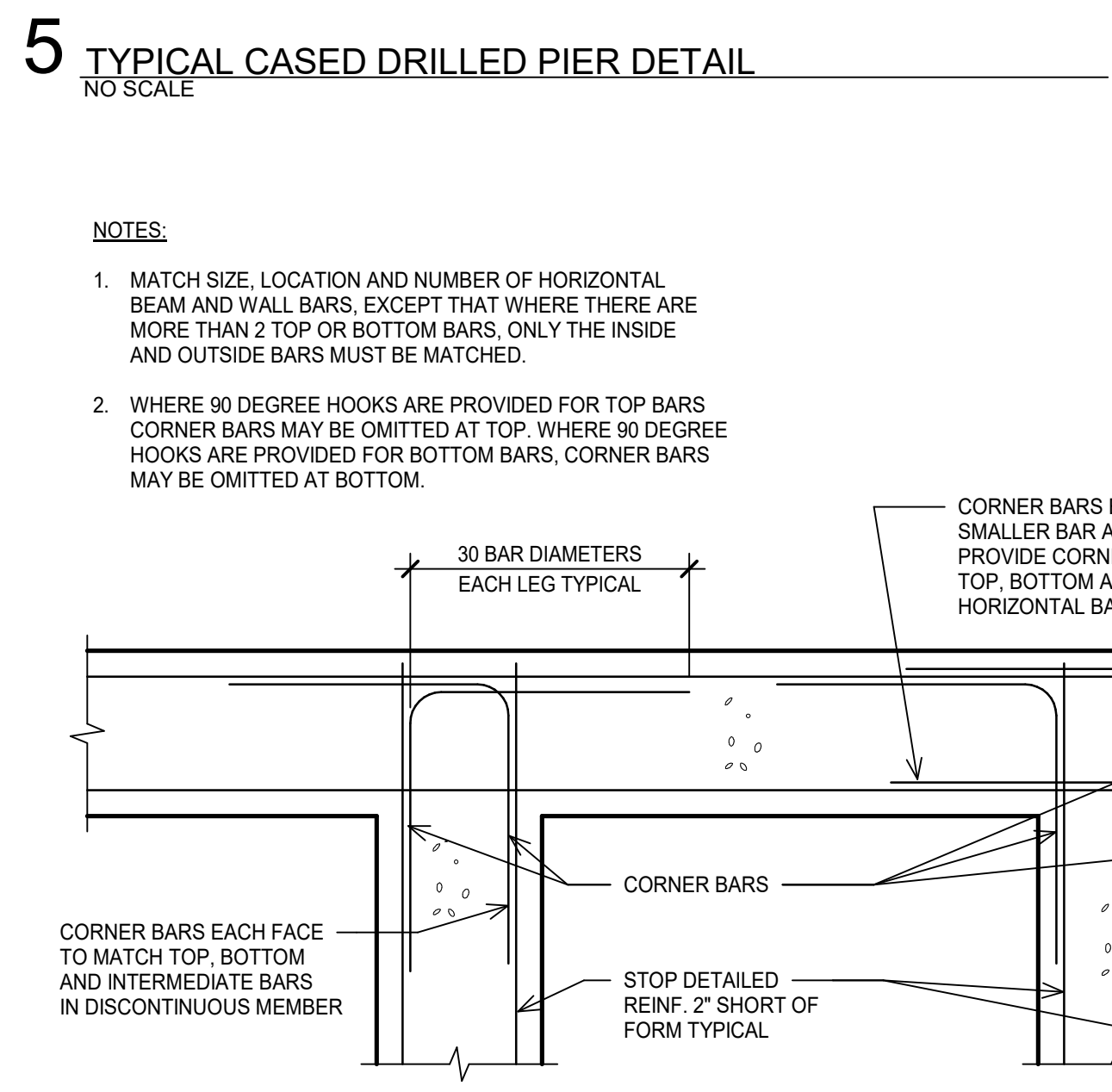
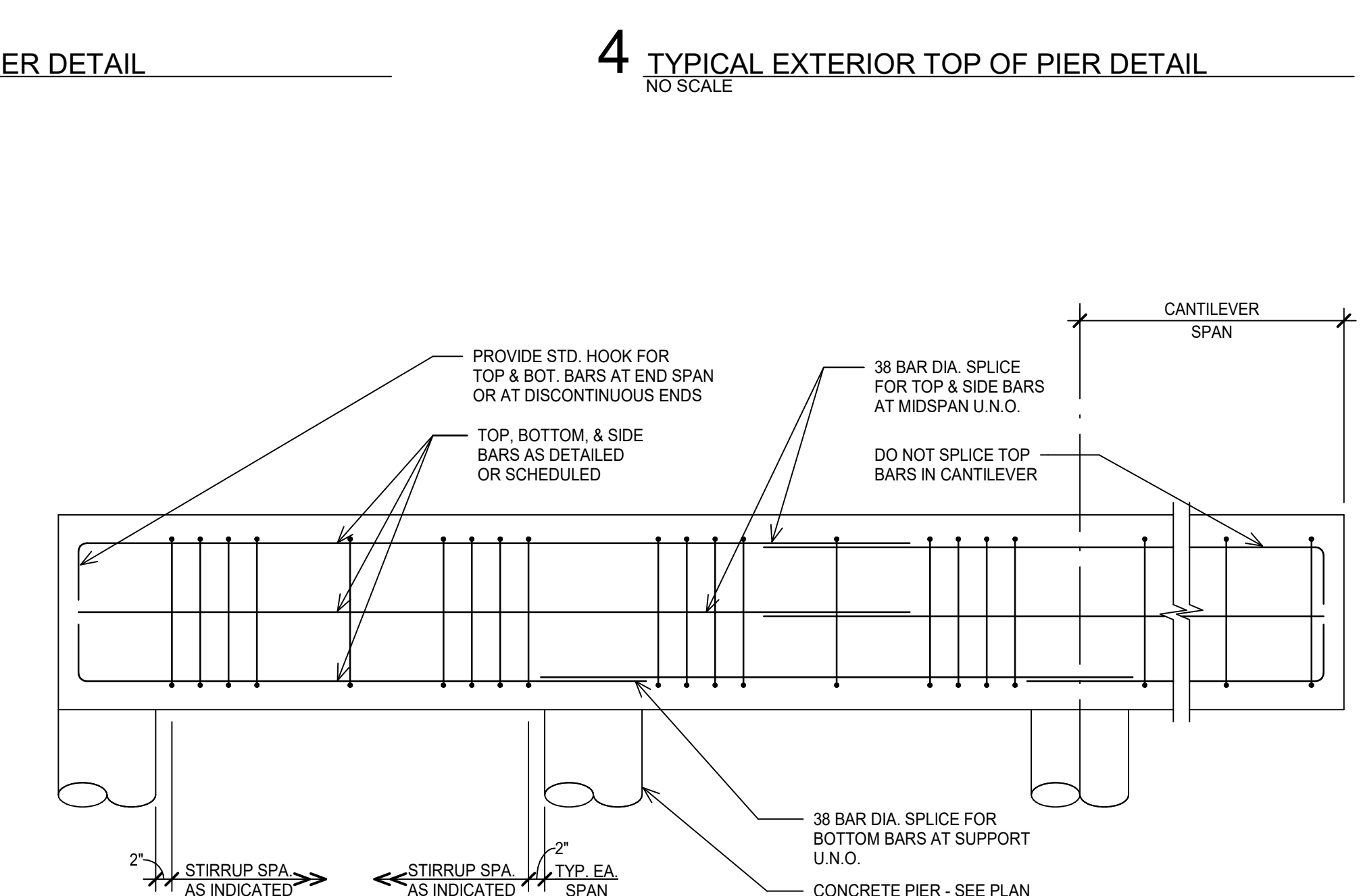
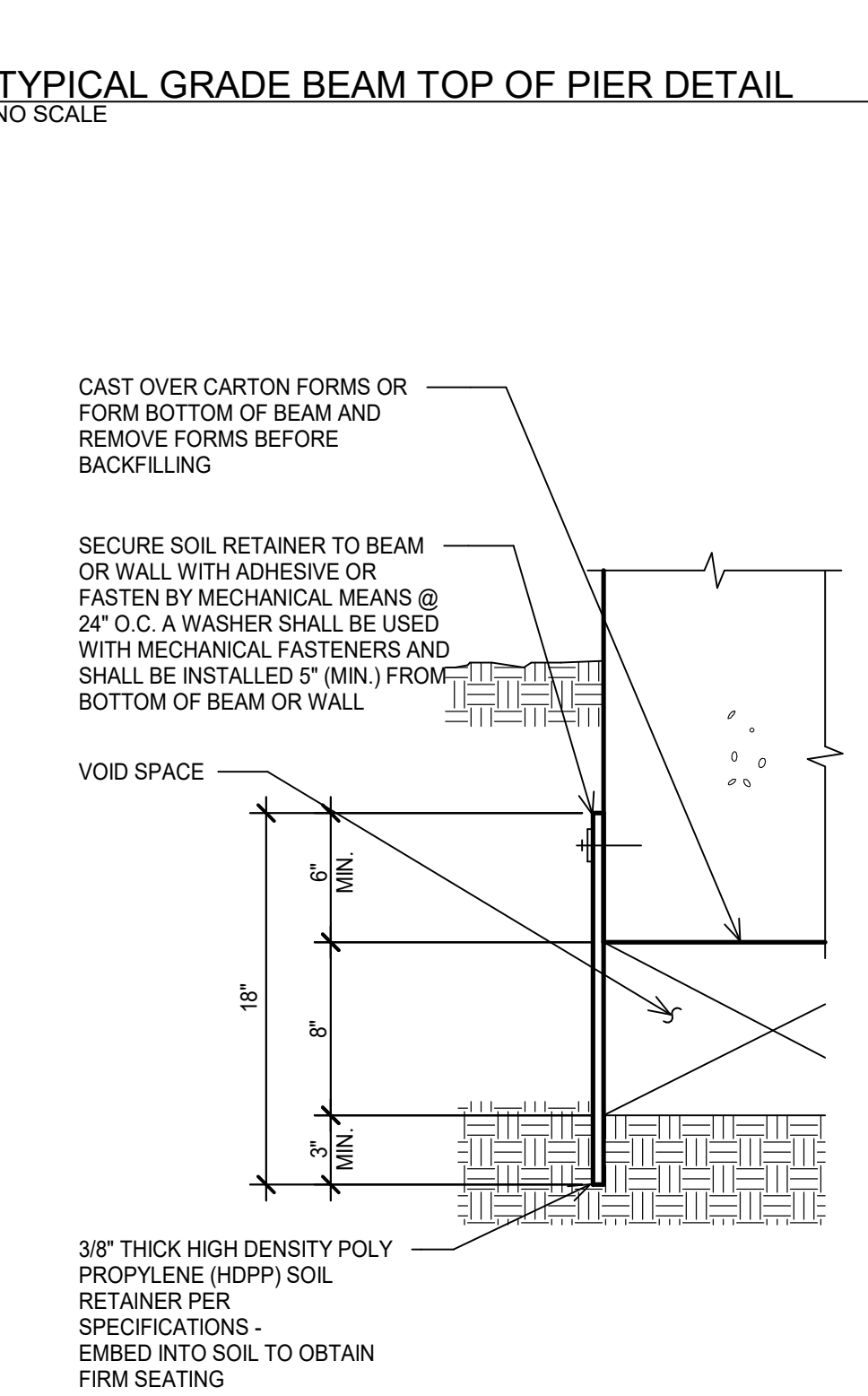
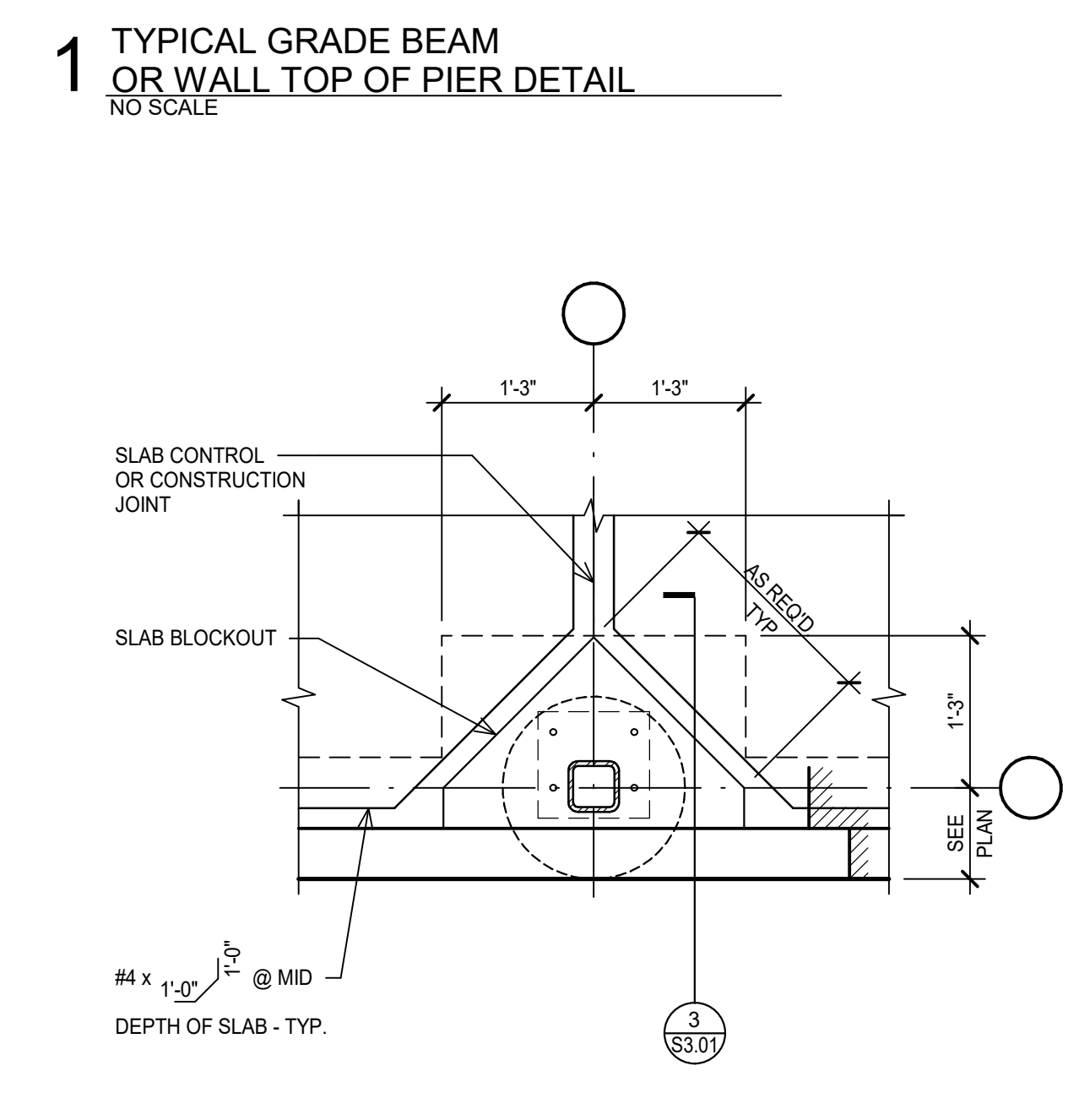
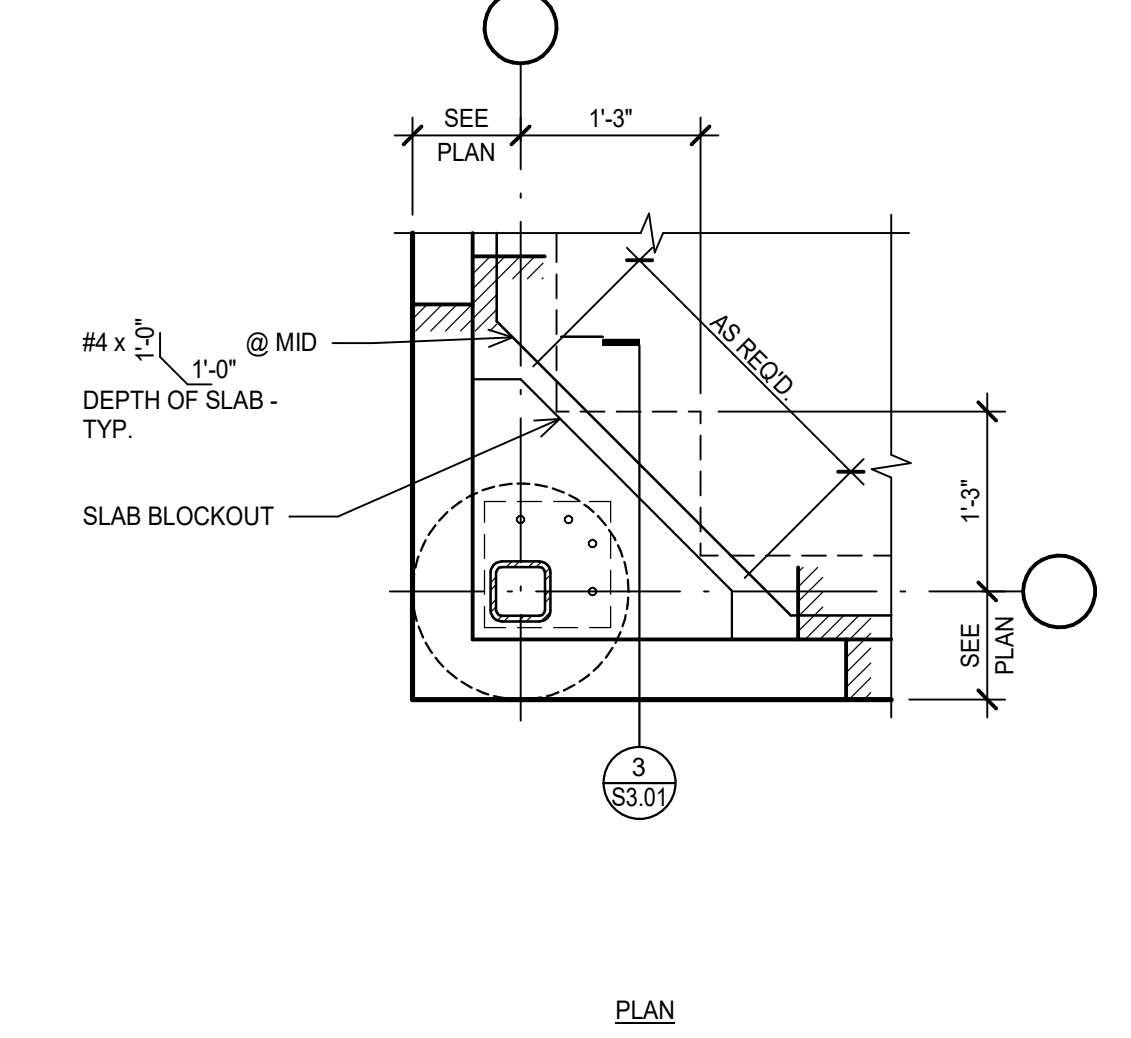
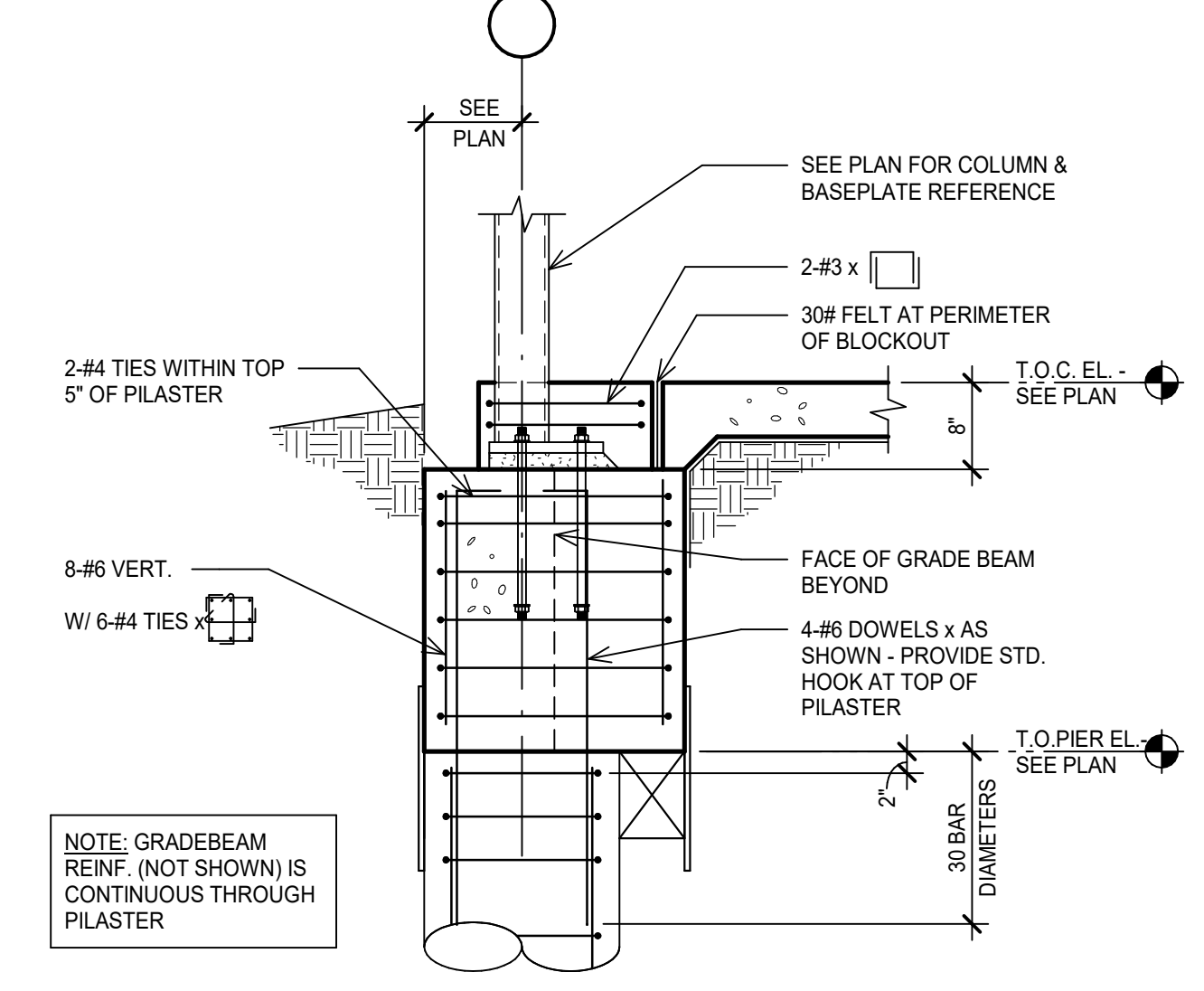
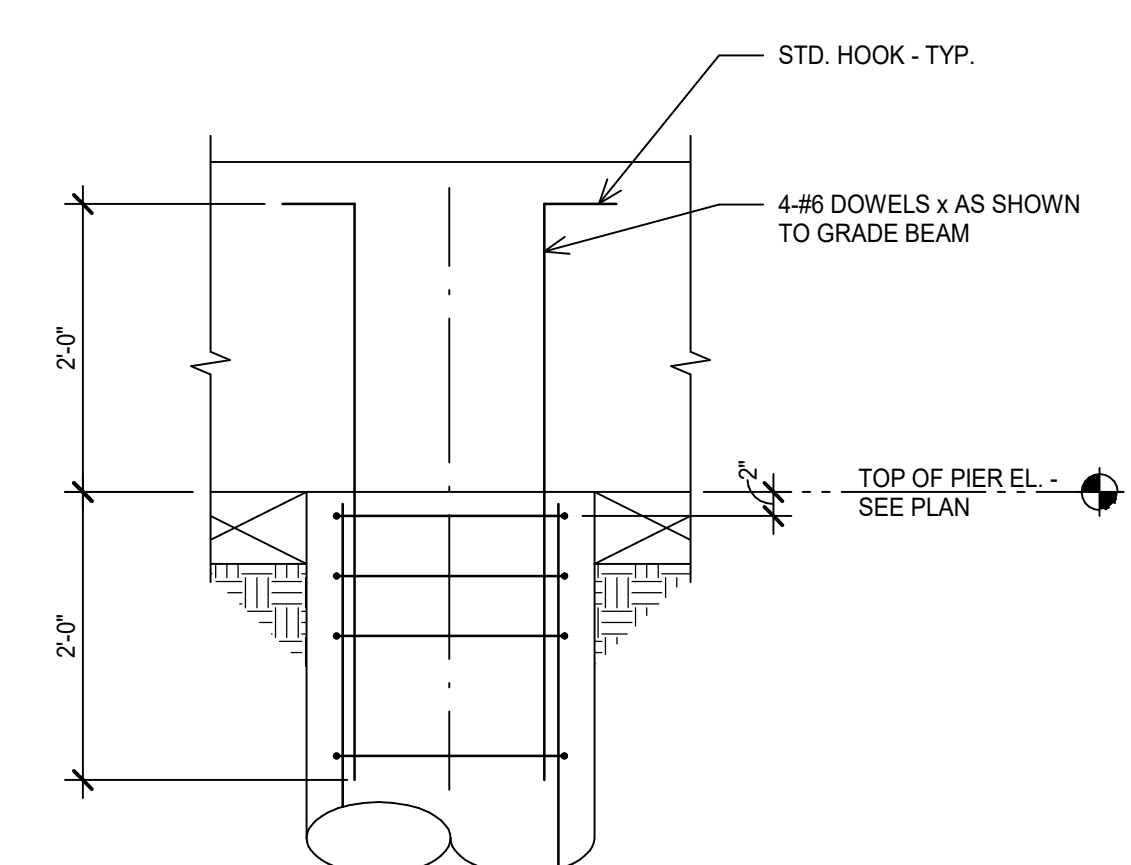
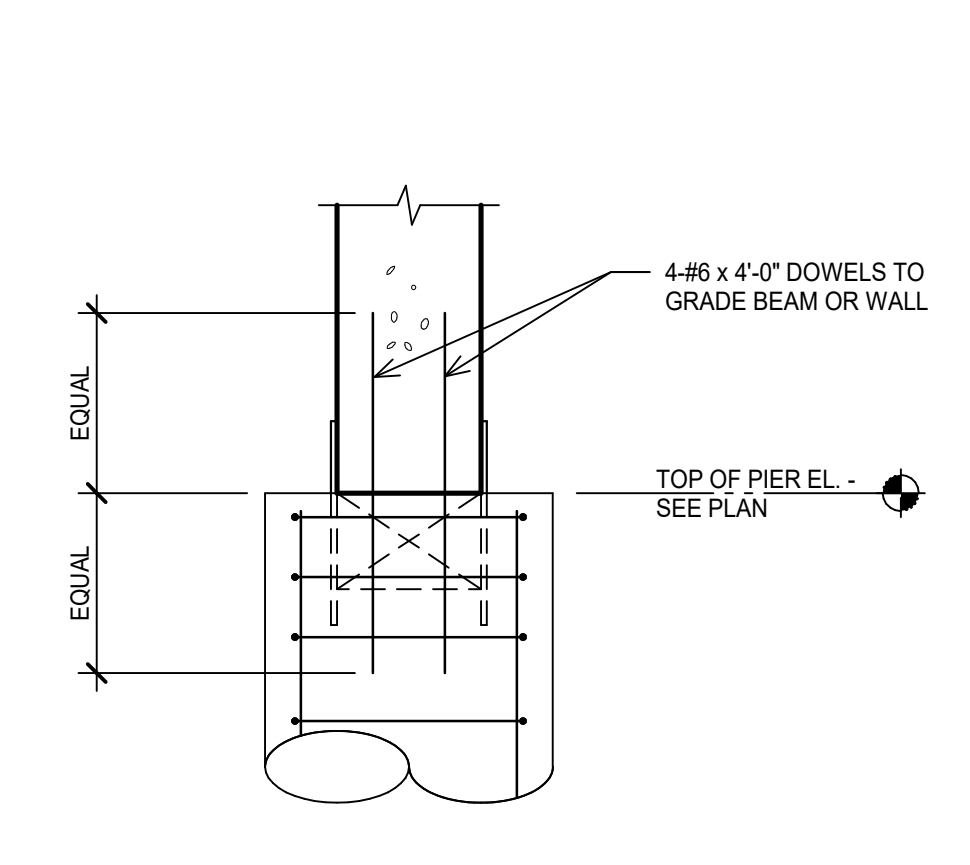
Sheet Title:
HIGH ROOF FRAMING PLAN

Drawing No.





PIER SCHEDULE - STRAIGHT SHAFT					
MARK	SHAFT DIAMETER	VERTICAL BARS	TIES	PENET.	CAPACITY (ASD)
P1	1'-0"	6-#6	#3 @ 12" O.C.	6'-0"	150 KIPS

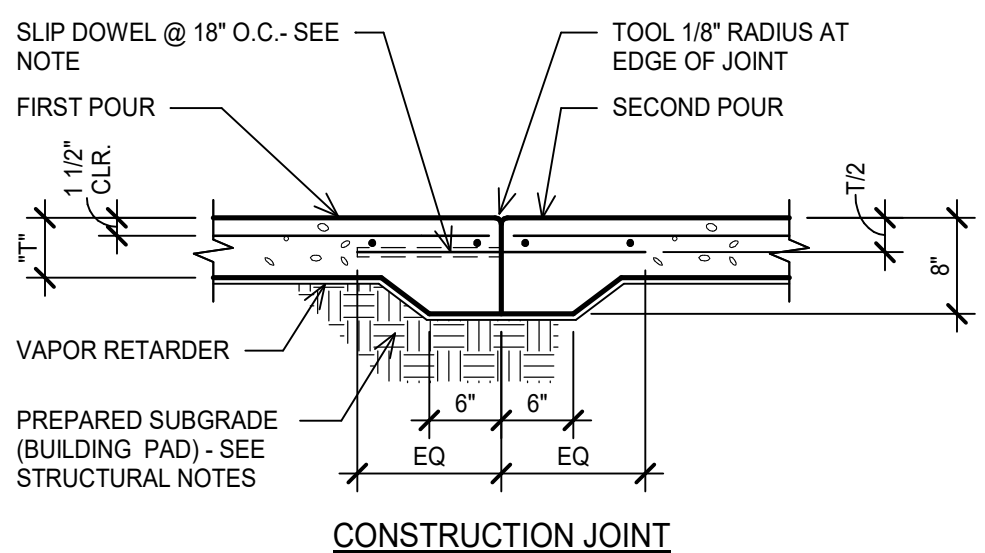


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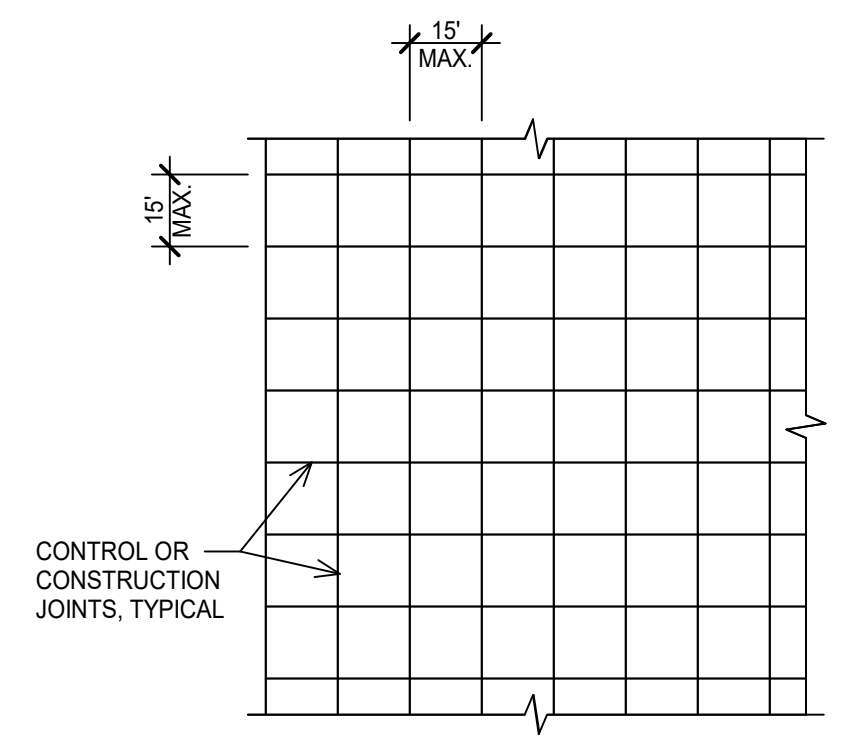
Date: CONSTRUCTION DOCUMENTS 02.11.2022
 Project No. 2942
 Drawn By: JRP
 Checked By: CRM
 Sheet Title: TYPICAL CONCRETE SECTIONS & DETAILS
 Drawing No.

NOTE:
 PROVIDE ONE OF THE FOLLOWING SLIP DOWELS:
 - PNA CONSTRUCTION TECHNOLOGIES 1/4" x 4 1/2" x 4 1/2" "DIAMOND DOWEL"
 - PLATE DOWEL SYSTEM
 - GREENSTREAK 5/8" DIA. SMOOTH x 24" "SPEED DOWEL" SYSTEM
 - 1/2" DIA. x 2'-0" A36 SMOOTH ROD.

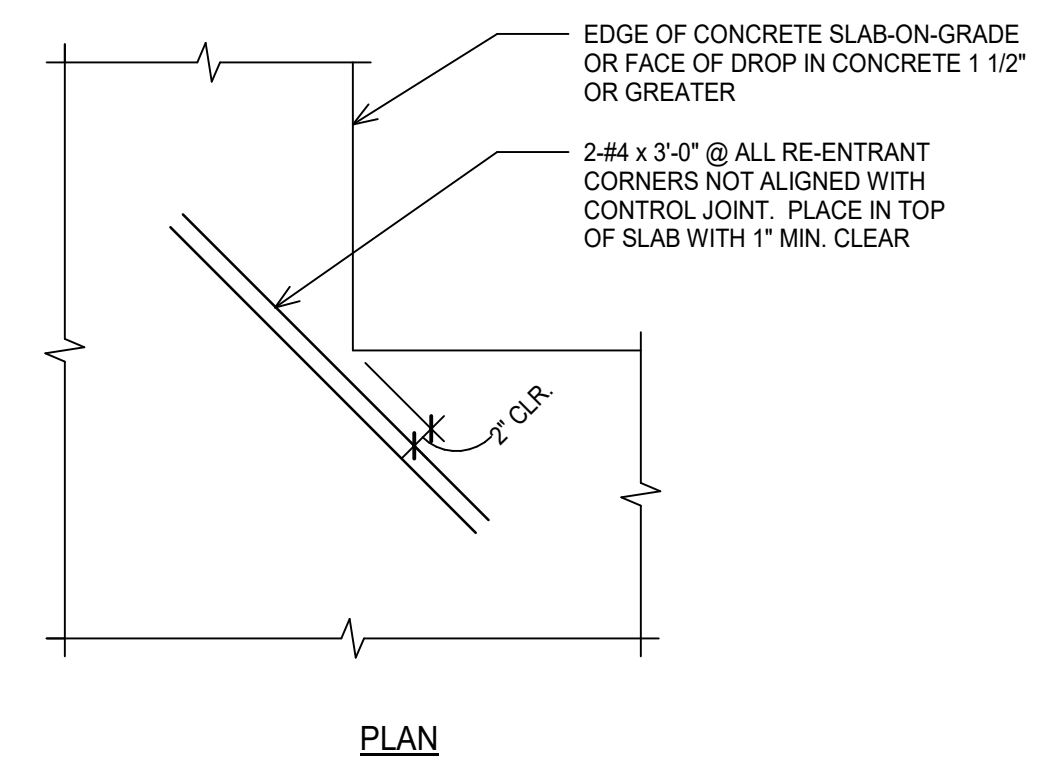


- SLAB-ON-GRADE NOTES:**
- SEE PLAN FOR THICKNESS OF SLAB (T) AND REINFORCING.
 - SAWCUT JOINTS WITH IN THE TIME FRAME NOTED BELOW:
 - 12 HOURS FOR SLABS COVERED BY FINISHES OR NON PUBLIC SPACES.
 - 4 HOUR FOR SLABS EXPOSED TO PUBLIC VIEW OR WHERE NOTED "SOFF-CUT" BRAND SAW SHALL BE USED.
 - IF METAL FORMS ARE USED, REMOVE THEM BEFORE PLACING ADJACENT SLAB.
 - FOR SLABS WITH THICKNESS (T) GREATER THAN 6", THICKENED EDGES ARE NOT REQUIRED AT JOINTS.
 - PROVIDE A CONSTRUCTION OR A CONTROL JOINT ON THE CENTERLINES OF COLUMNS.
 - LAP REINFORCING 36 BAR DIAMETER MINIMUM.

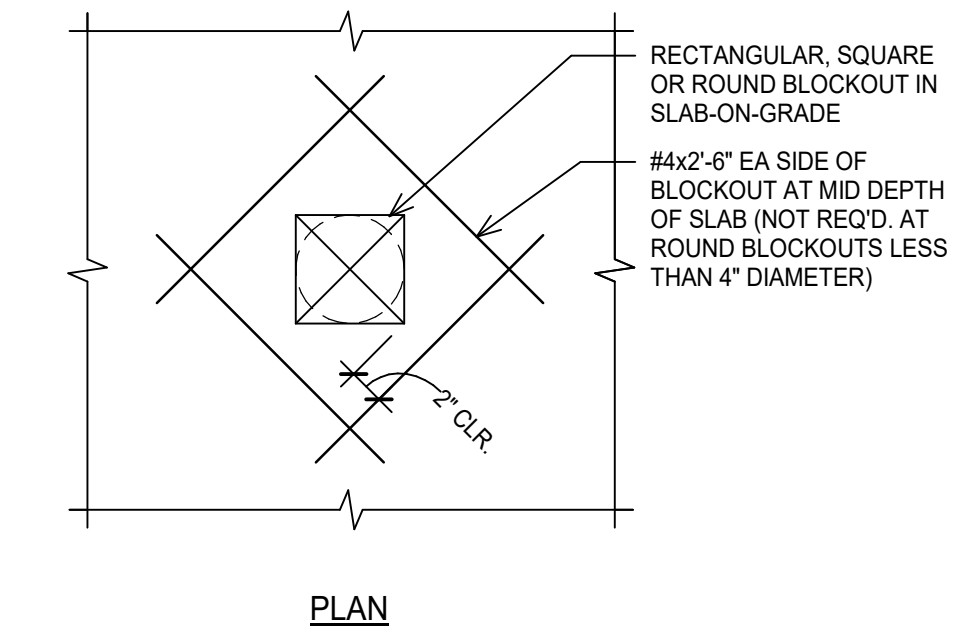
1 TYPICAL SLAB-ON-GRADE DETAIL
NO SCALE



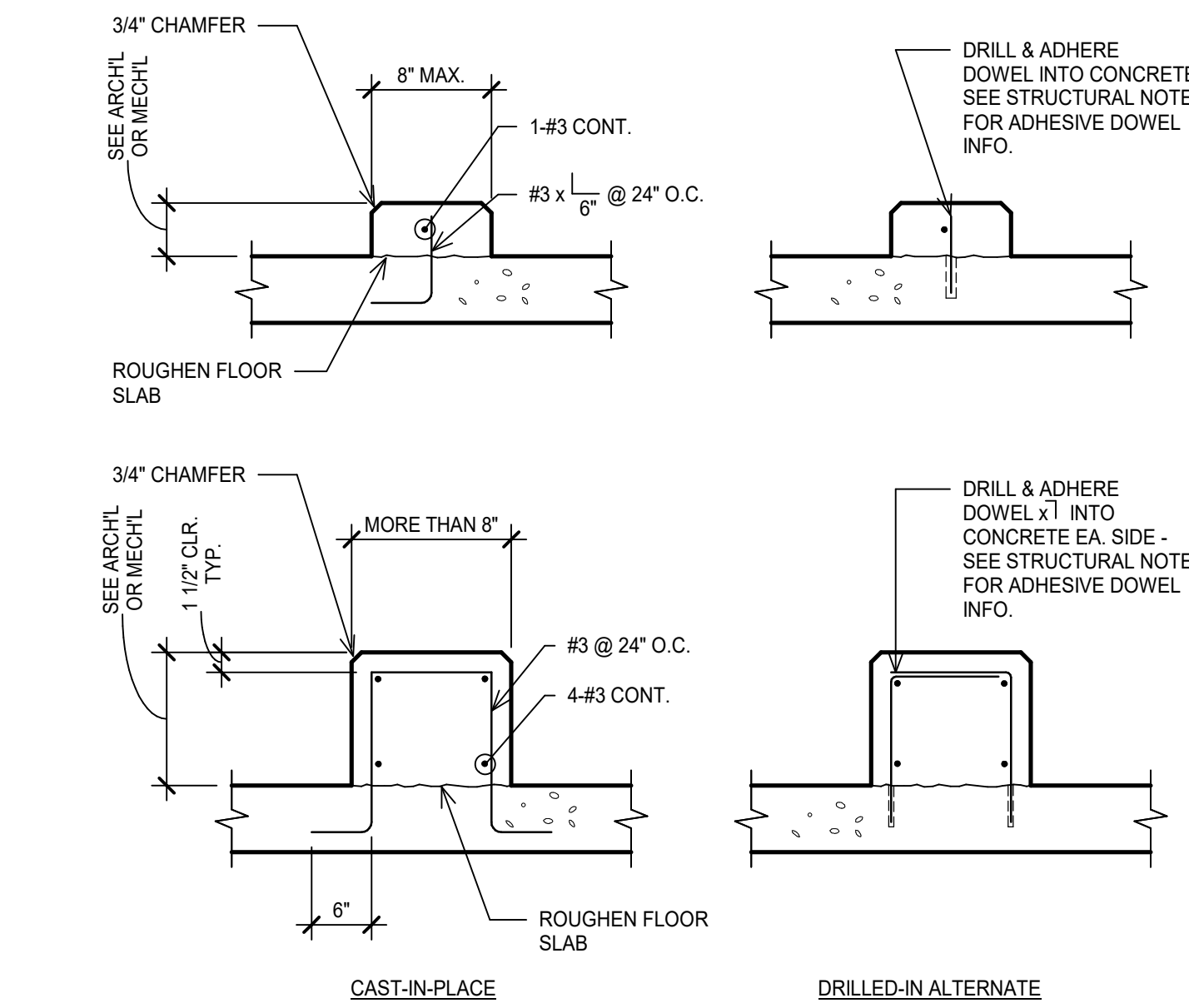
2 TYPICAL DROP IN SLAB-ON-GRADE DETAIL
NO SCALE



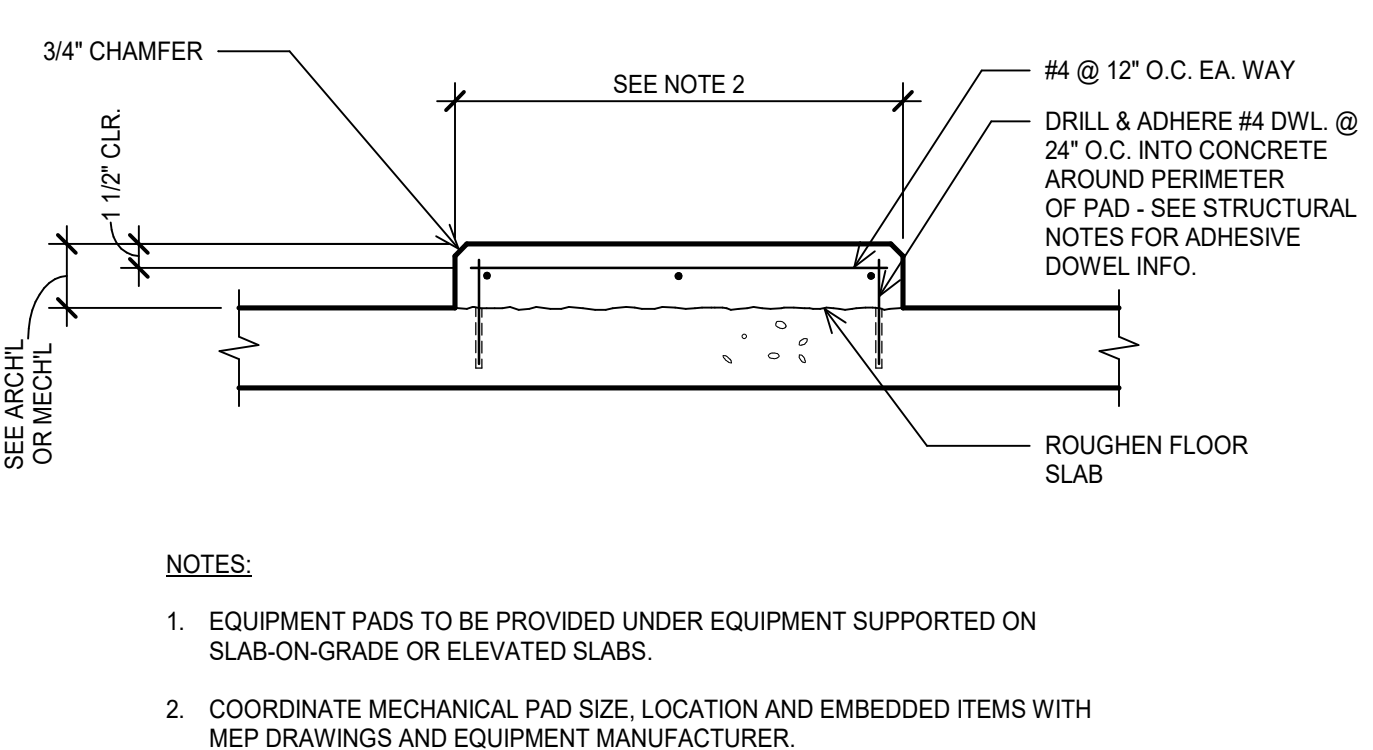
3 TYPICAL SLAB-ON-GRADE RE-ENTRANT CORNER REINFORCING DETAIL
NO SCALE



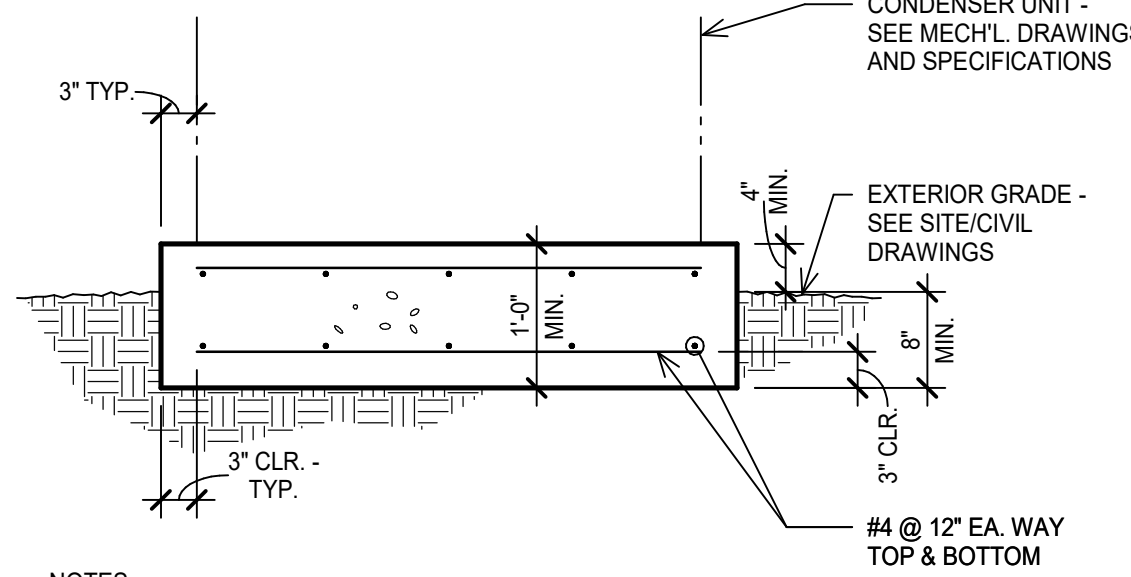
4 TYPICAL ADDITIONAL REINFORCING AT BLOCKOUT IN SLAB-ON-GRADE DETAIL
NO SCALE



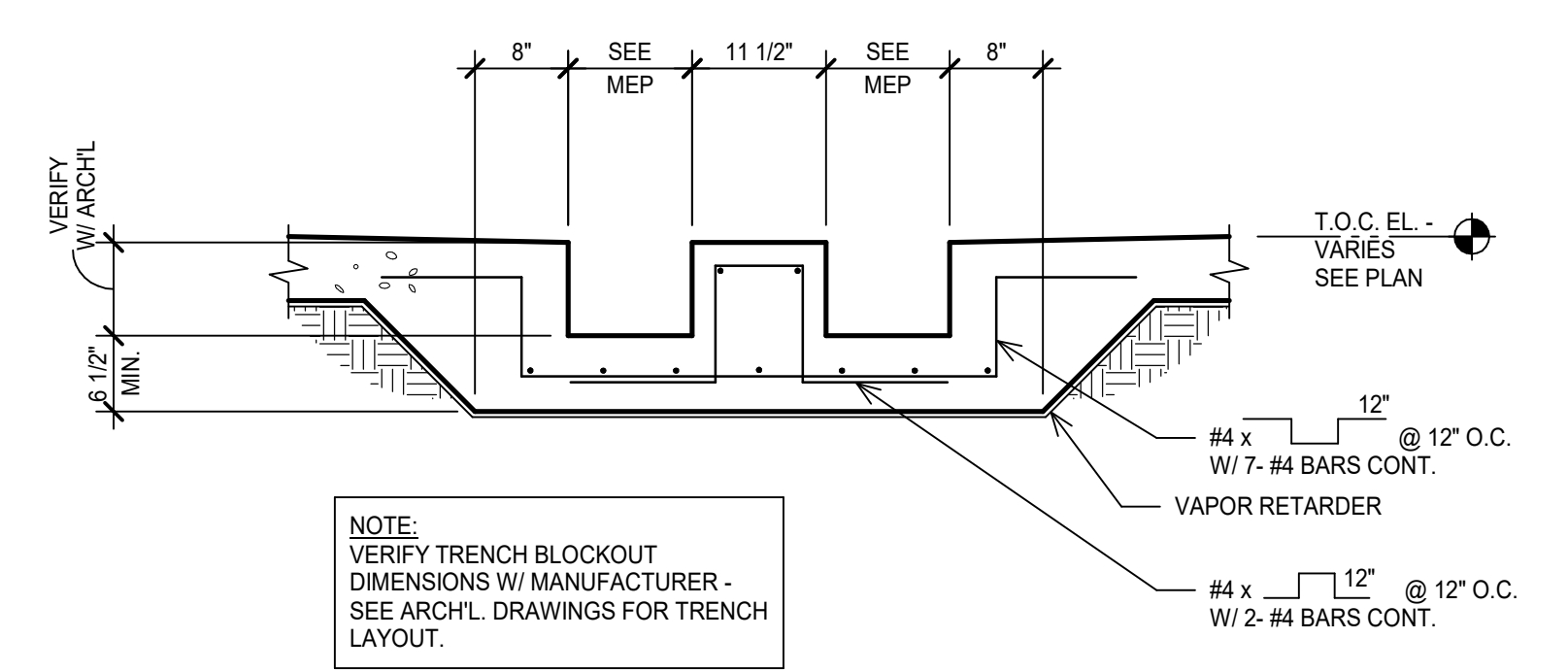
5 TYPICAL CONCRETE CURB DETAILS
NO SCALE



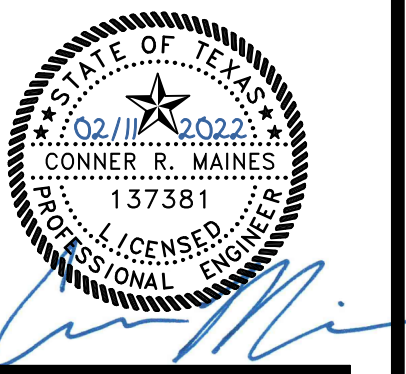
6 TYPICAL MECHANICAL EQUIPMENT PAD DETAIL
NO SCALE



7 CONDENSER UNIT PAD DETAIL
NO SCALE



8 TYPICAL TRENCH DETAIL
NO SCALE



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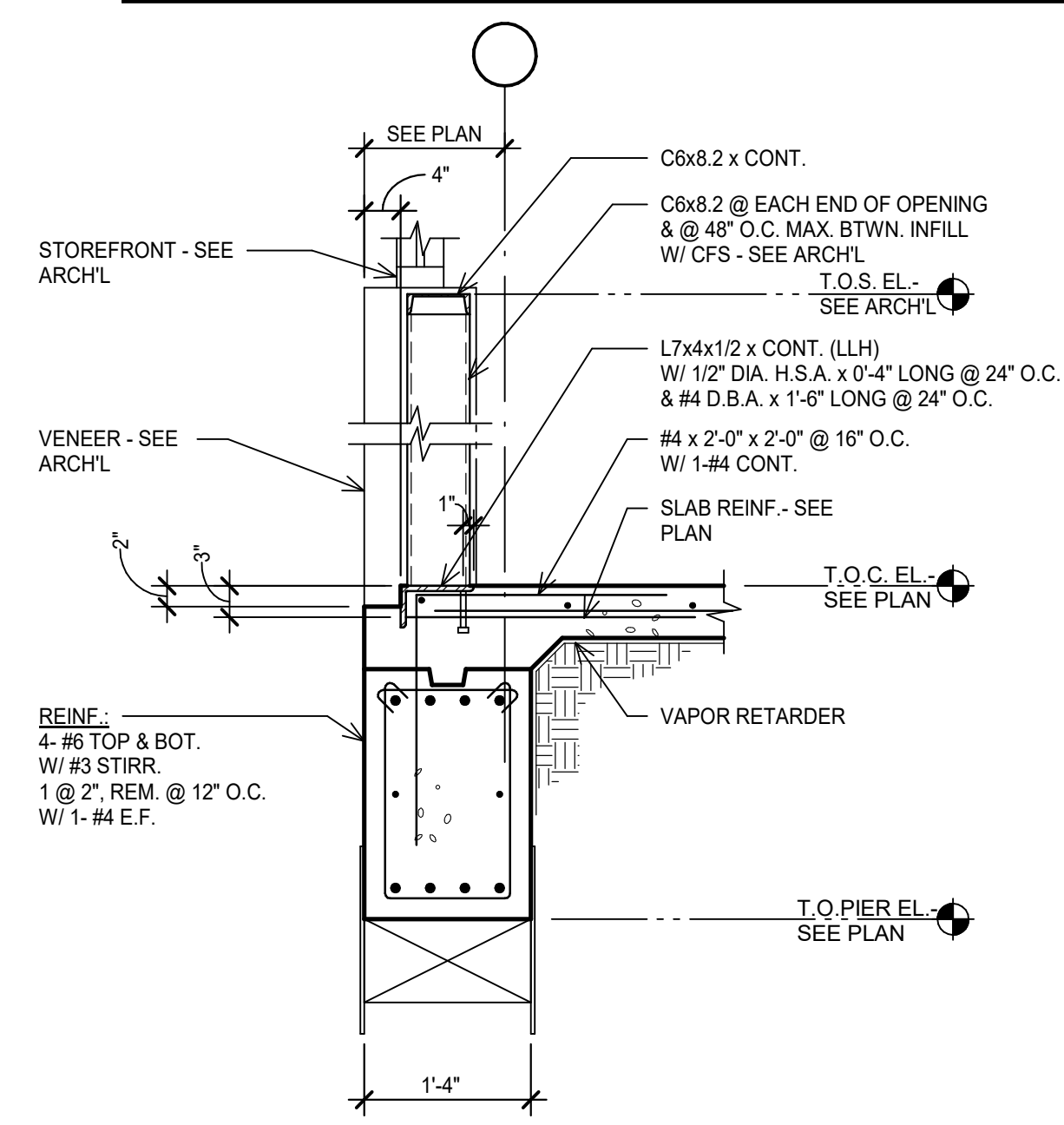
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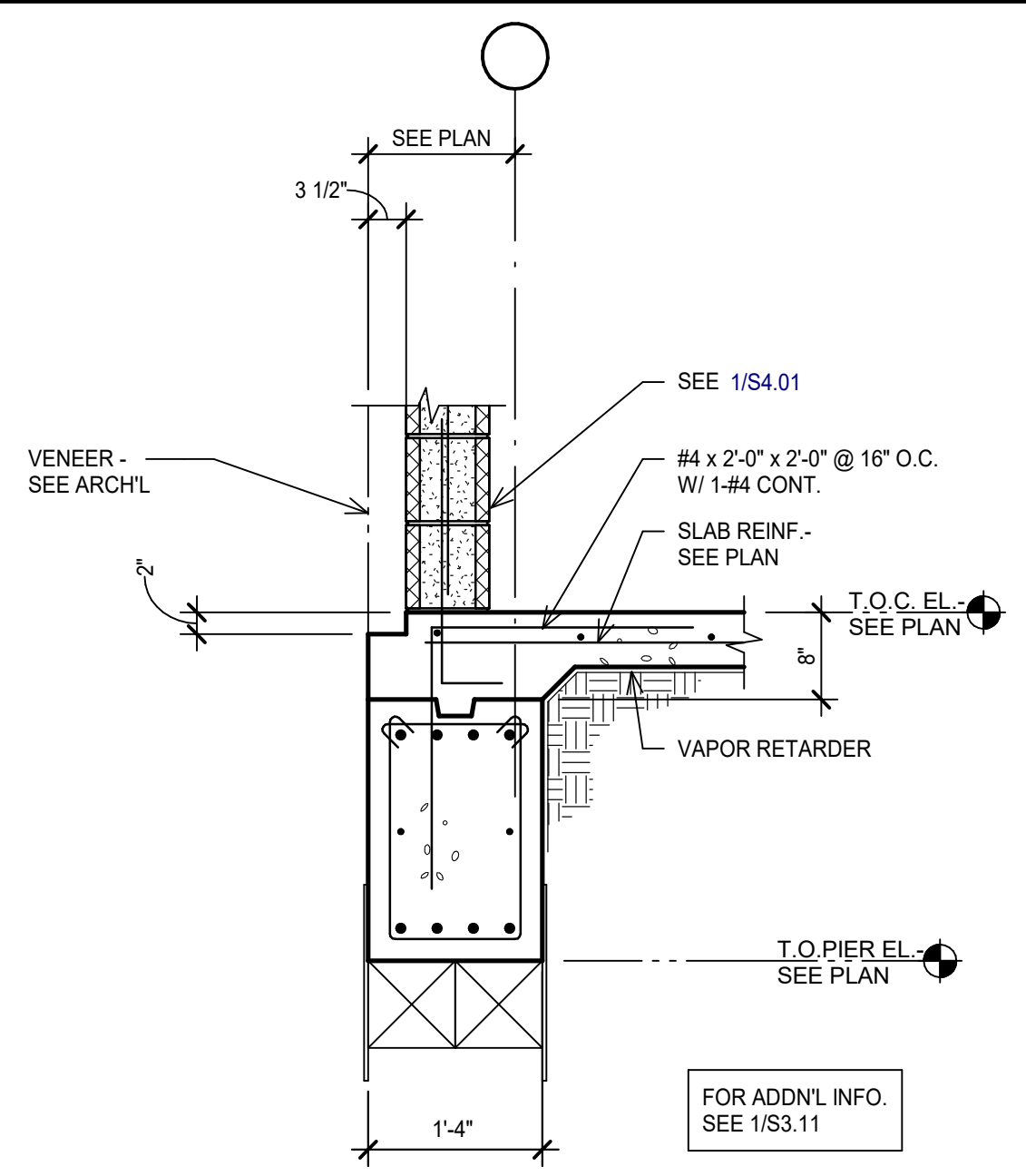
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 TYPICAL CONCRETE
 SECTIONS & DETAILS

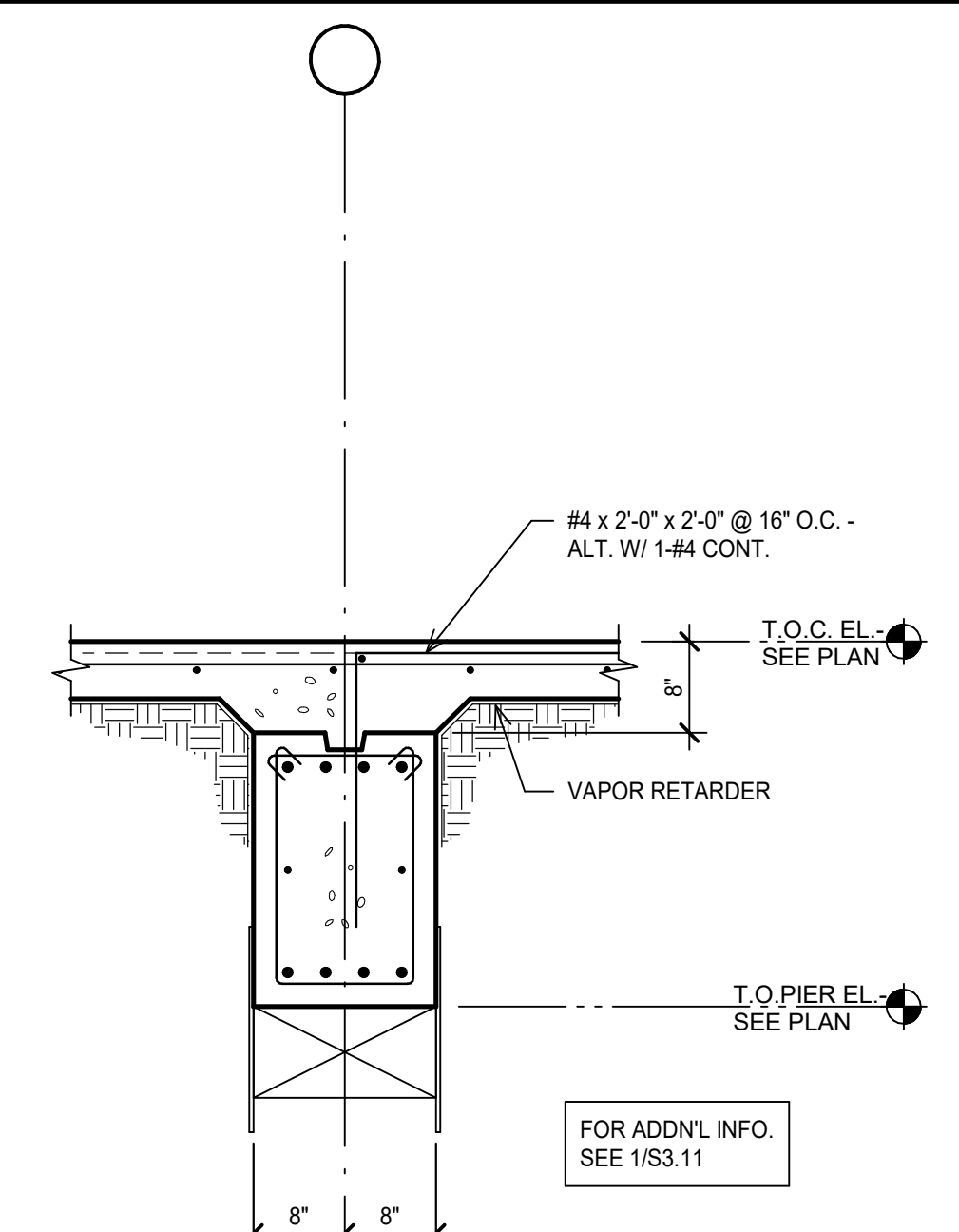
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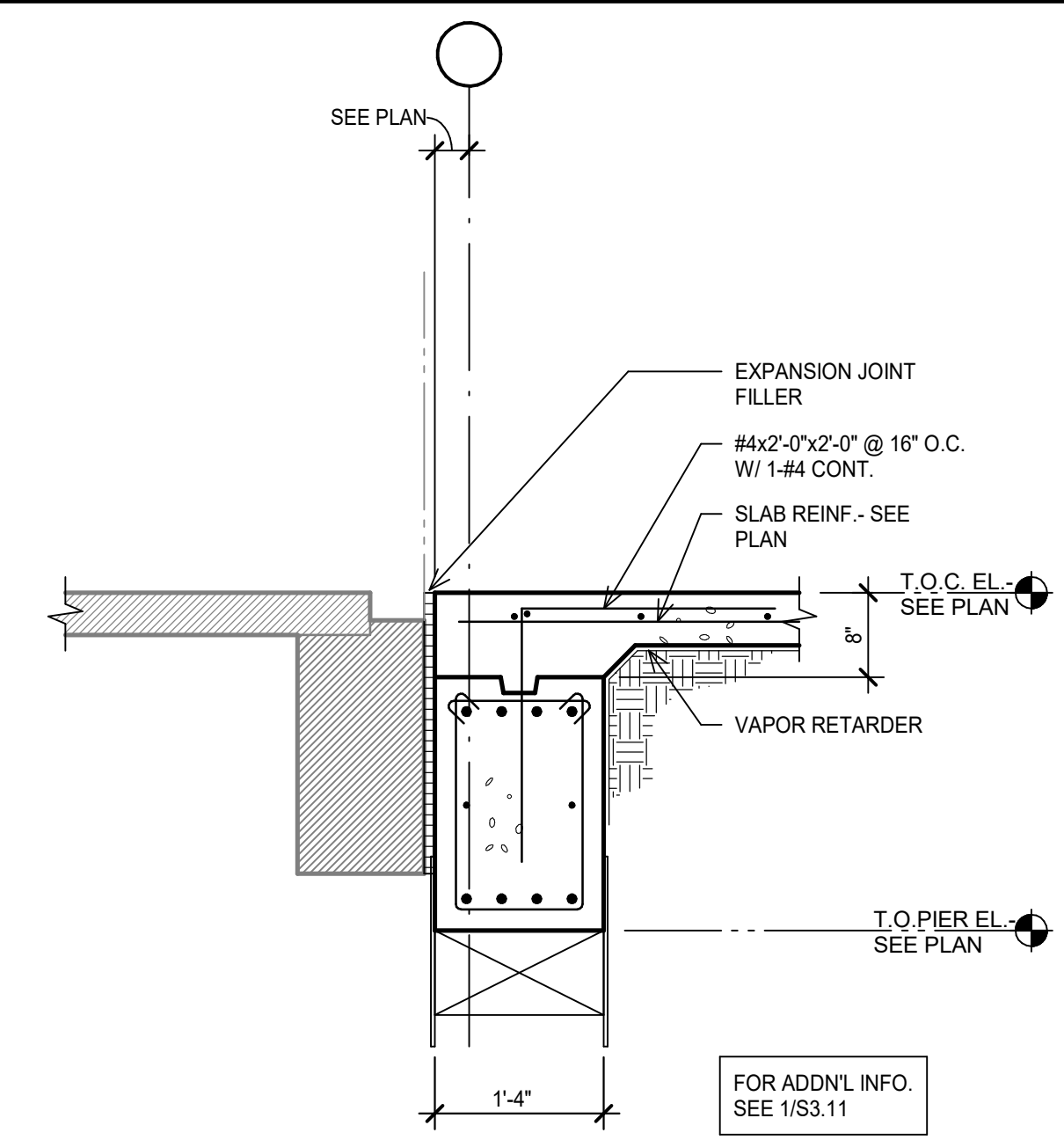
1 TYPICAL GRADE BEAM DETAIL
SCALE: 3/4" = 1'-0"



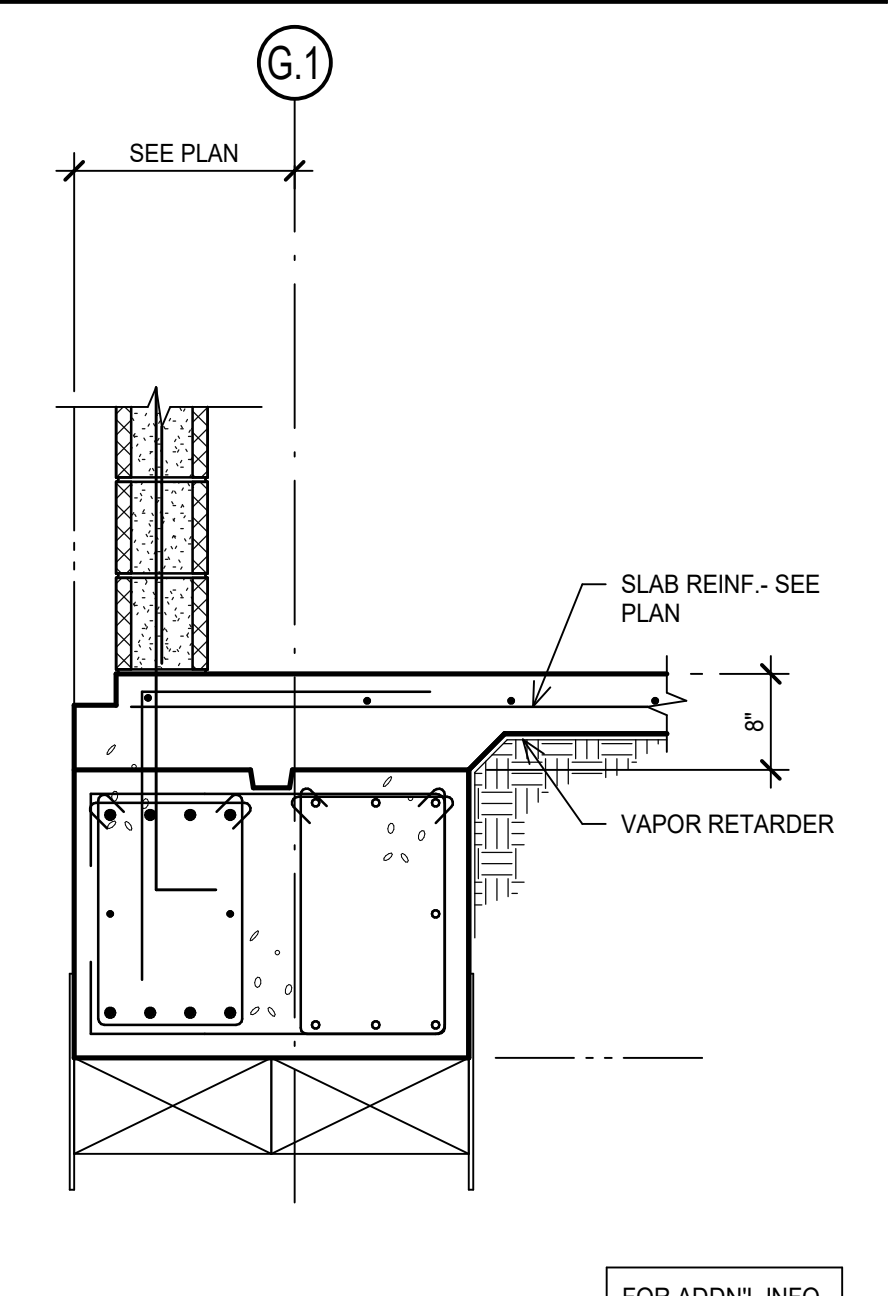
2 TYPICAL GRADE BEAM DETAIL
SCALE: 3/4" = 1'-0"



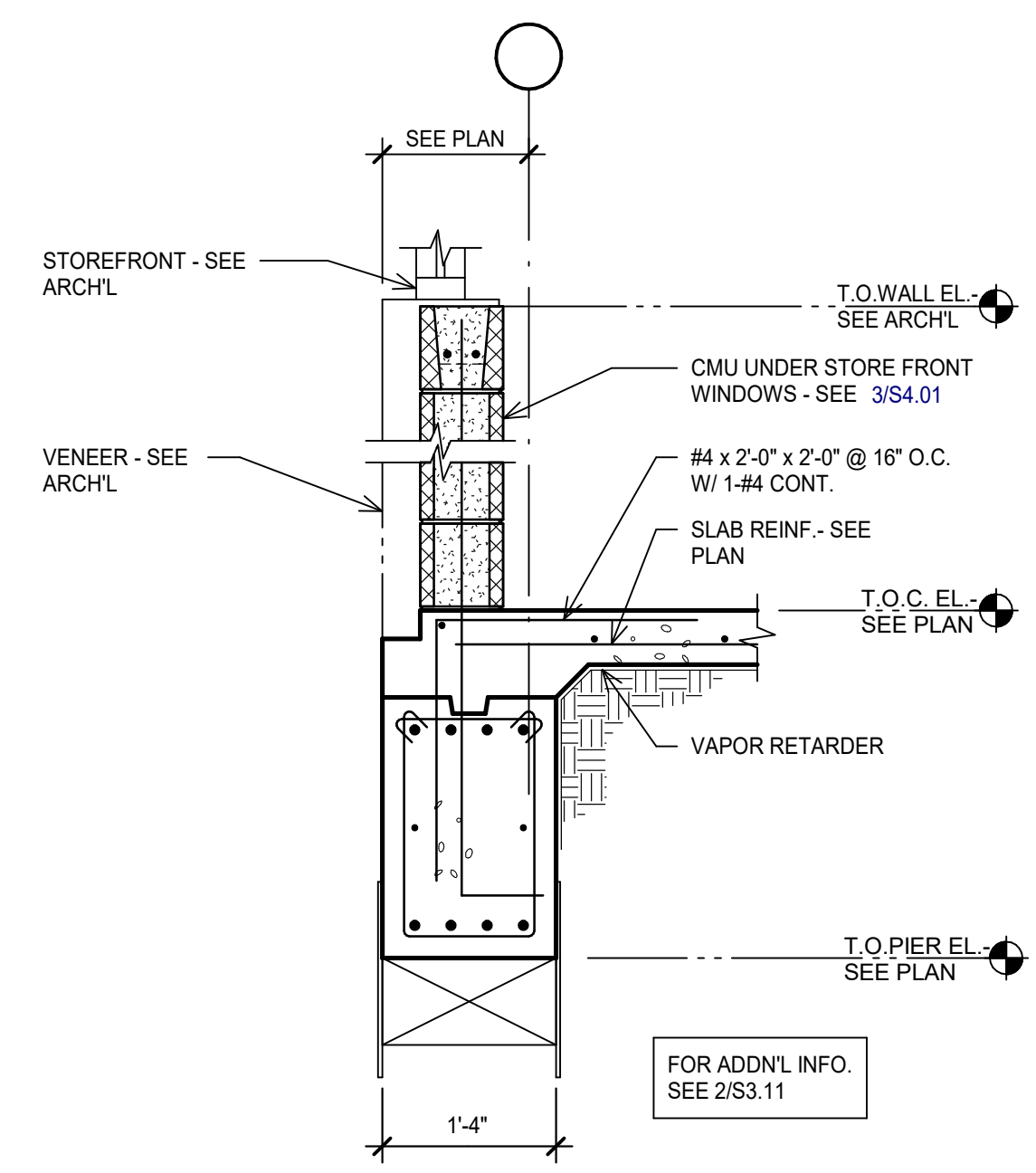
3 TYPICAL GRADE BEAM DETAIL
SCALE: 3/4" = 1'-0"



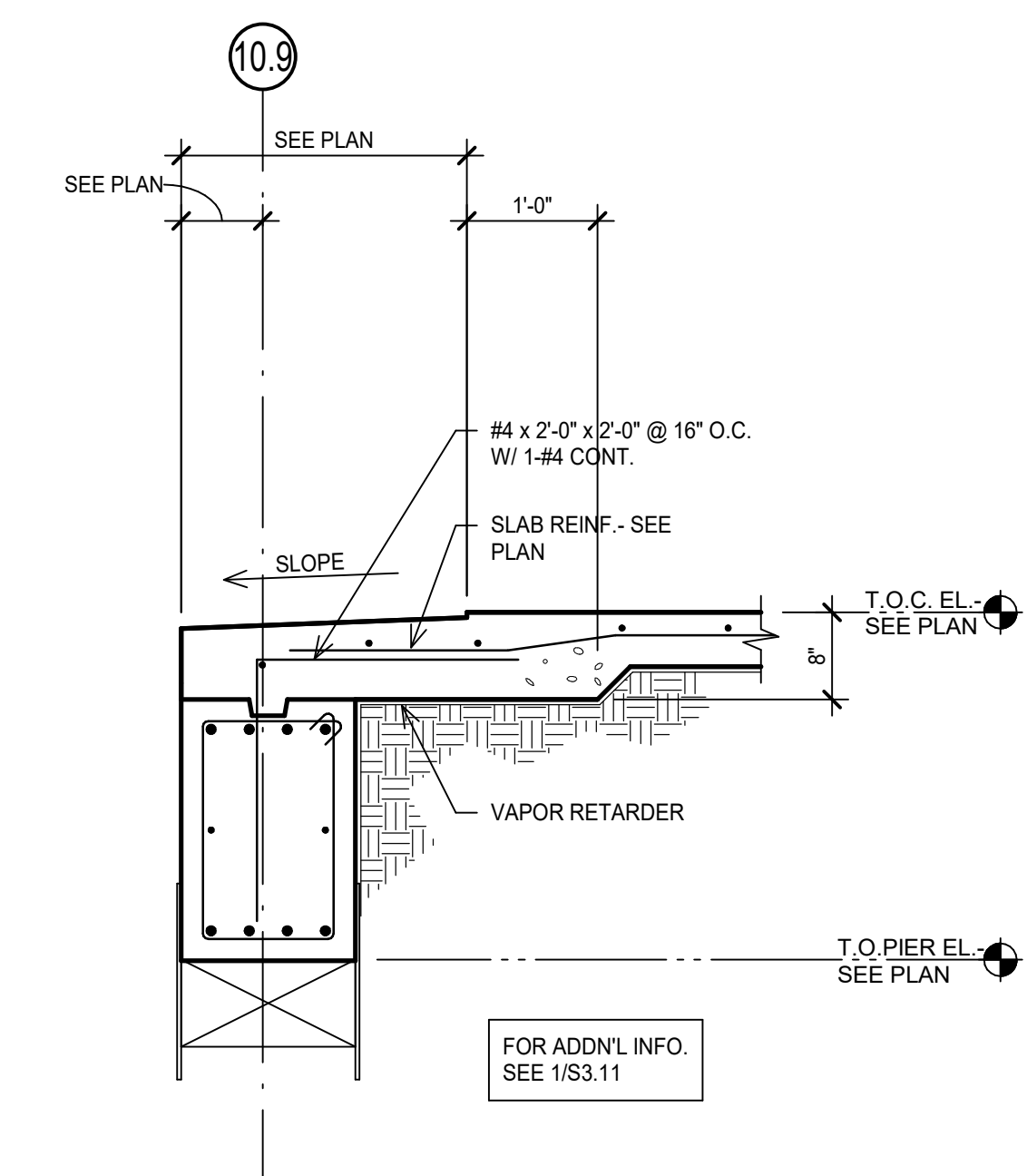
4 SECTION
SCALE: 3/4" = 1'-0"



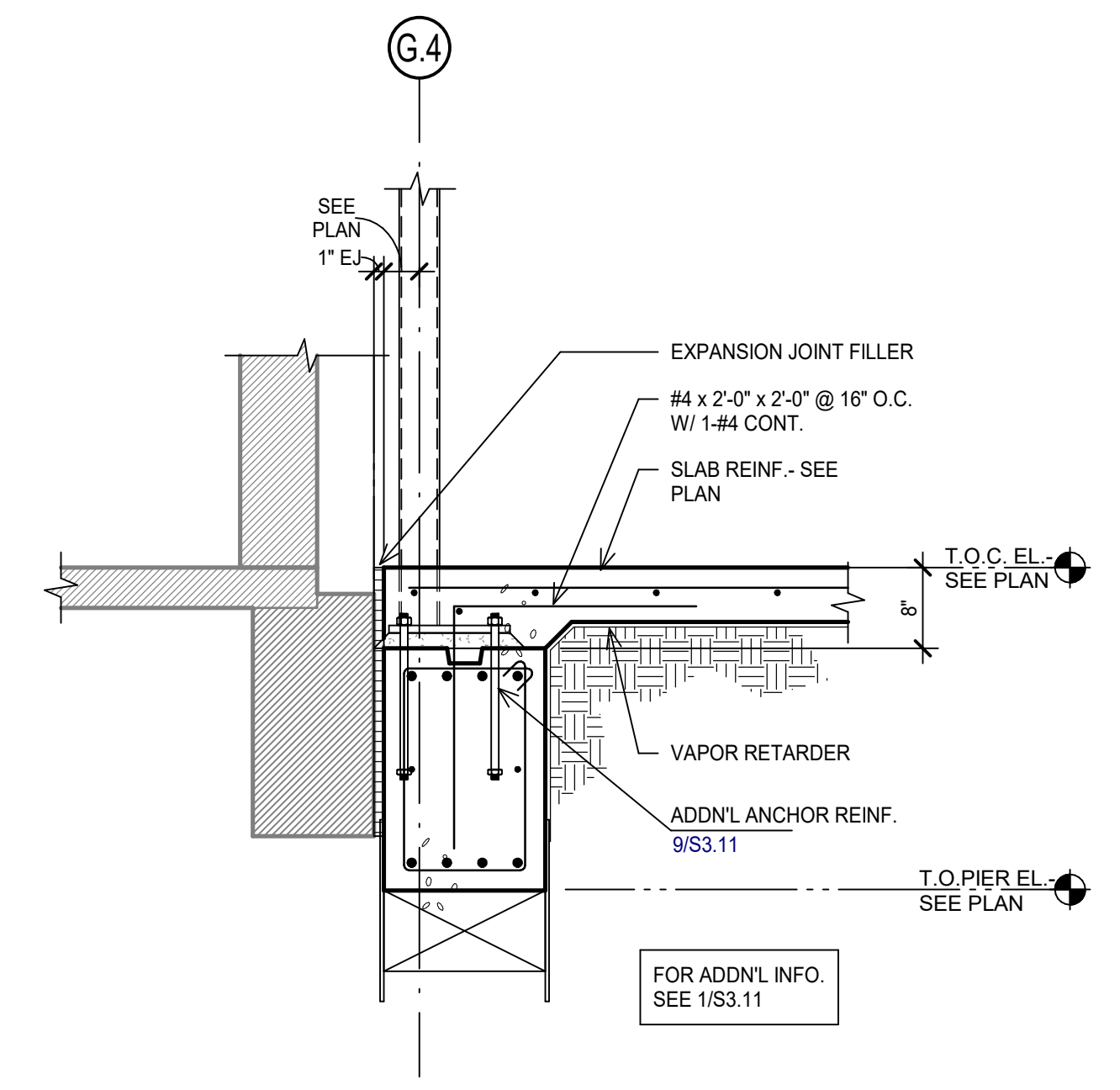
5 SECTION
SCALE: 3/4" = 1'-0"



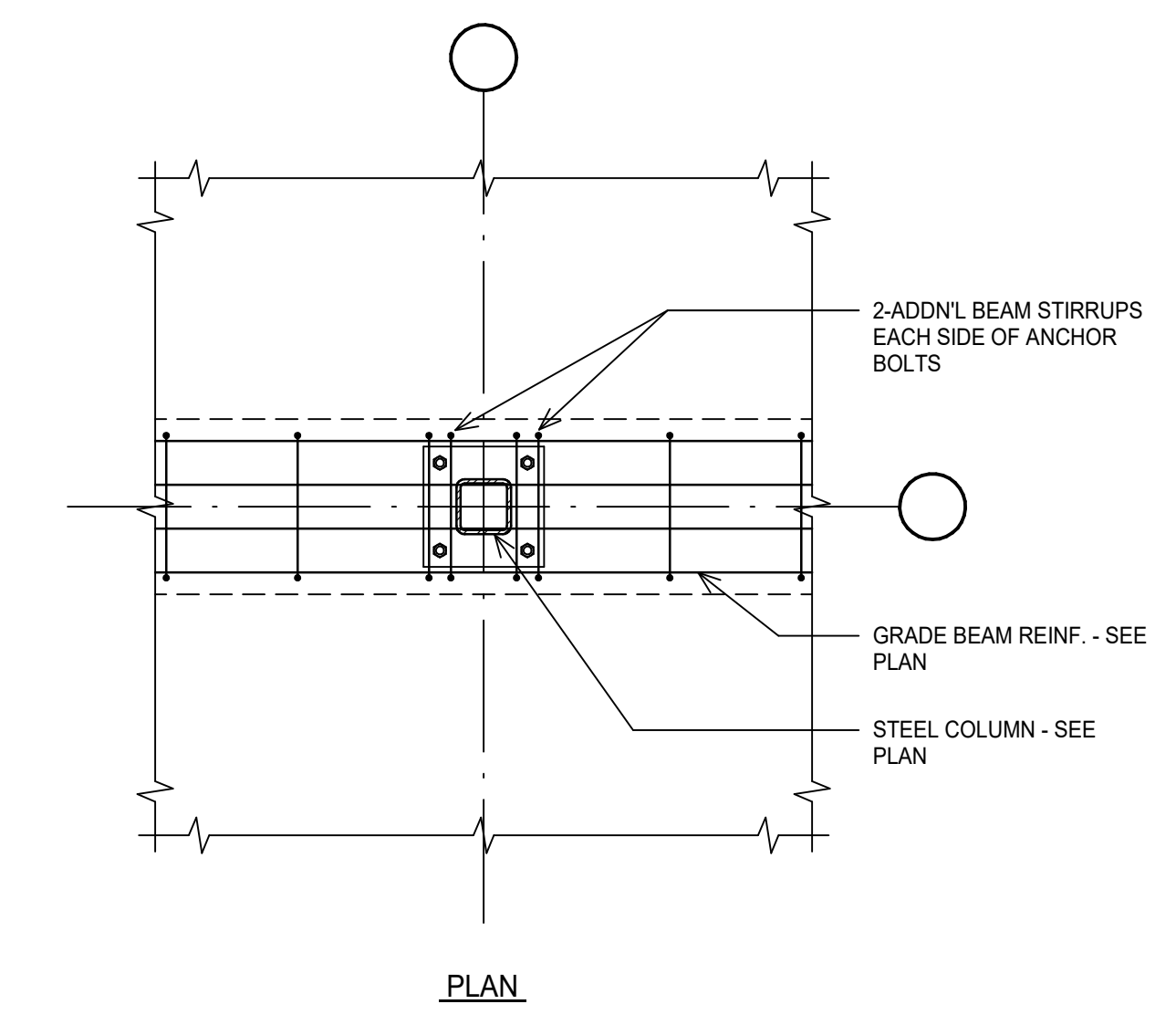
6 SECTION
SCALE: 3/4" = 1'-0"



7 SECTION
SCALE: 3/4" = 1'-0"



8 SECTION
SCALE: 3/4" = 1'-0"



9 DETAIL
SCALE: 3/4" = 1'-0"



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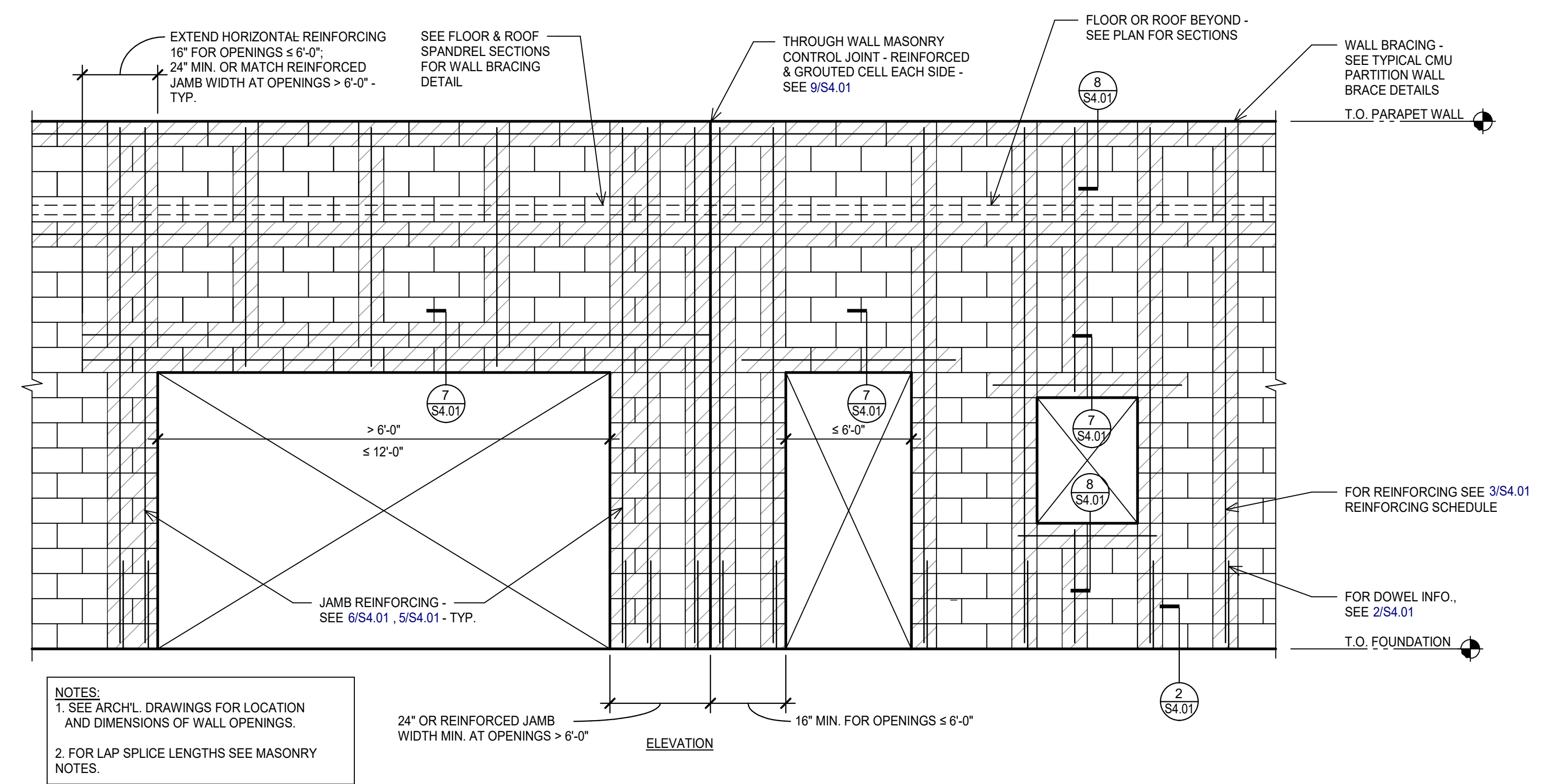
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Sheet Title:
CONCRETE SECTIONS &
DETAILS

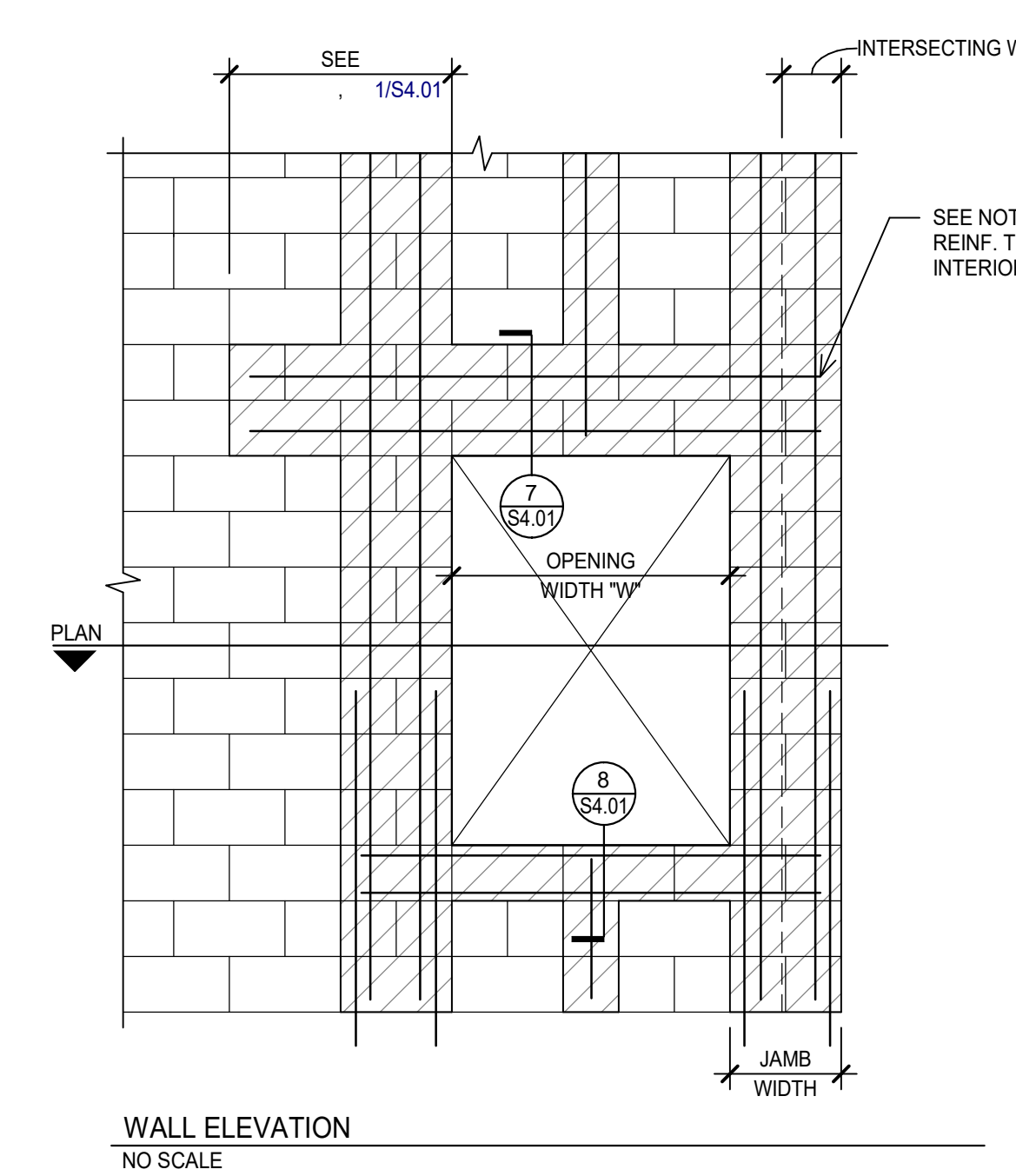
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1 TYPICAL EXTERIOR CMU WALL REINFORCING DETAIL
NO SCALE

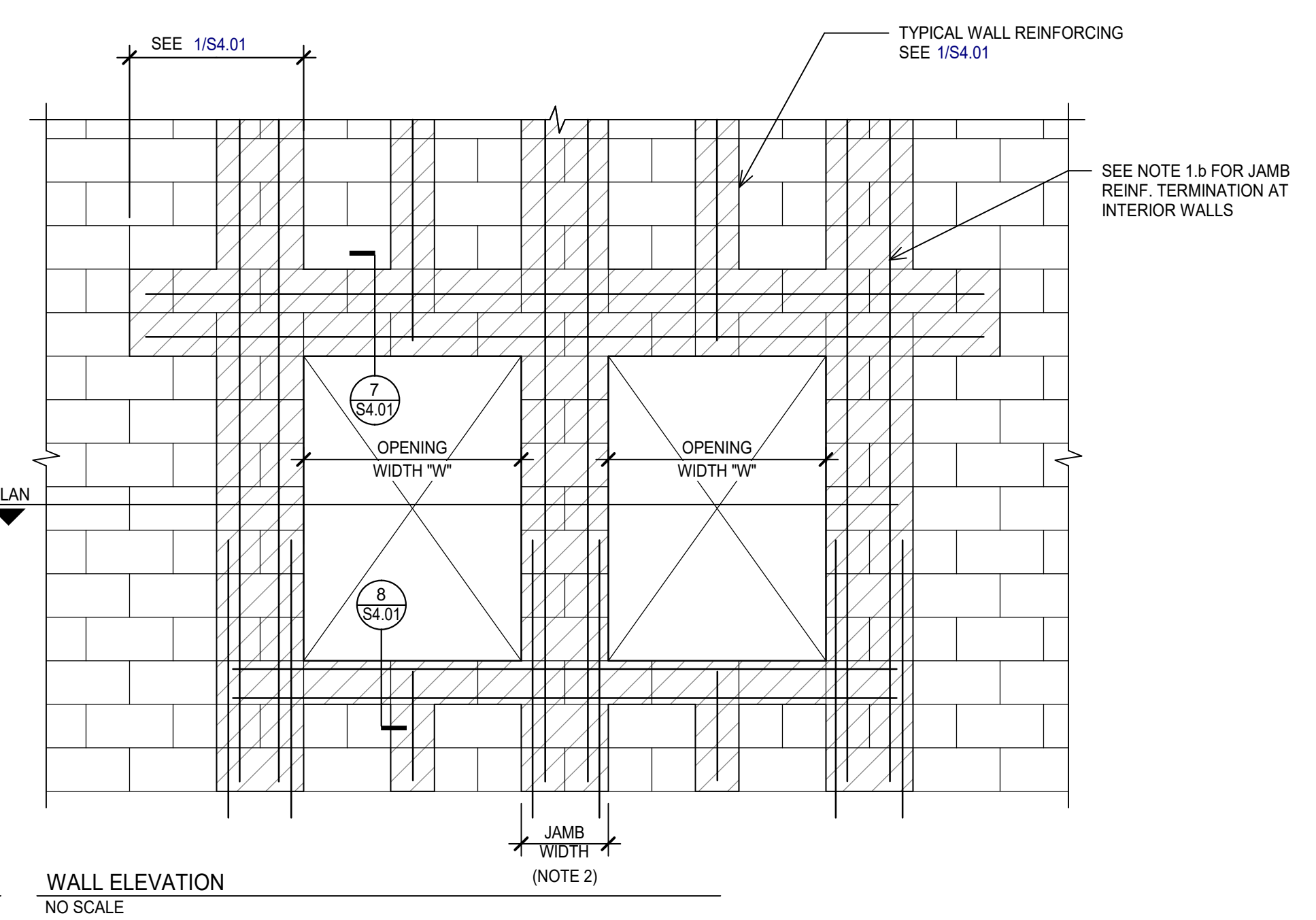
NOTES:
 1. SEE ARCHL. DRAWINGS FOR LOCATION AND DIMENSIONS OF WALL OPENINGS.
 2. FOR LAP SPLICE LENGTHS SEE MASONRY NOTES.

NOTES:
 1. a.) FOR OPENING AT EXTERIOR WALL, EXTEND JAMB REINFORCING TO TOP OF WALL.
 b.) FOR OPENING AT INTERIOR WALL $\leq 6'-0"$, TERMINATE JAMB REINFORCING AT TOP OF LINTEL.
 2. FOR REINFORCING DETAIL AT JAMB CONDITIONS SEE 4/S4.01



2 TYPICAL MASONRY WALL DOWEL DETAIL
NO SCALE

NOTES:
 1. a.) FOR OPENING AT EXTERIOR WALL, EXTEND JAMB REINFORCING TO TOP OF WALL.
 b.) FOR OPENING AT INTERIOR WALL $\leq 6'-0"$, TERMINATE JAMB REINFORCING AT TOP OF LINTEL.
 2. FOR TYPE 2 OPENINGS, LINTEL SHALL SPAN ACROSS BOTH OPENINGS. INTERMEDIATE CMU WALL BETWEEN OPENINGS SHALL BE EQUIVALENT OF COMBINED JAMB REINFORCING FROM EACH OPENING.
 3. REFER TO CM-8 FOR REINFORCING DETAIL AT JAMB CONDITIONS.



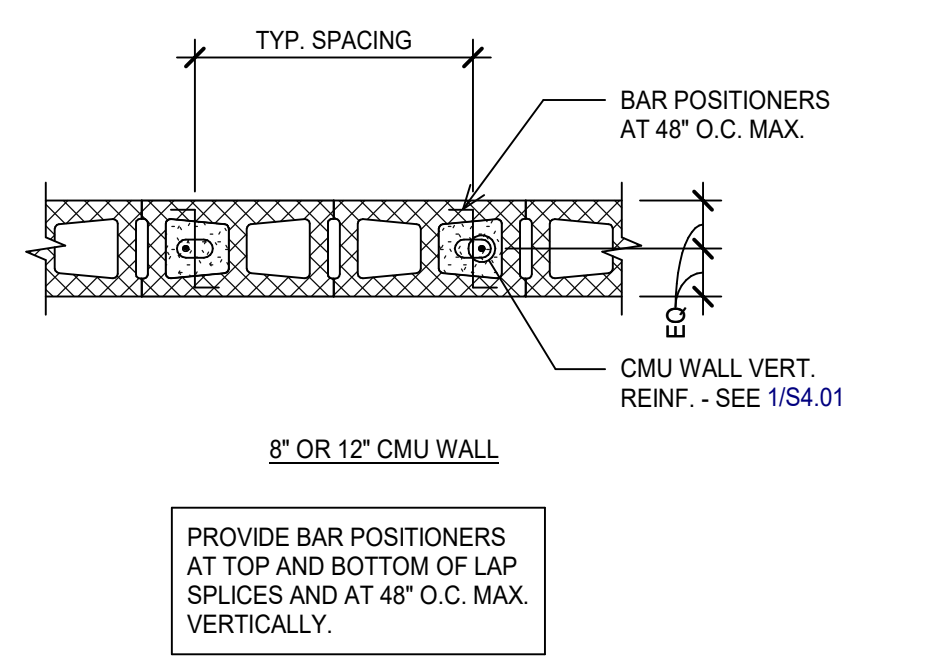
3 CMU WALL REINFORCING SCHEDULE
NO SCALE

DOWEL SIZE	DIMENSIONS	
	"A"	"B"
#4	1'-6"	2'-6"
#5	1'-6"	3'-2"
#6	2'-0"	3'-9"
#7	2'-6"	4'-5"

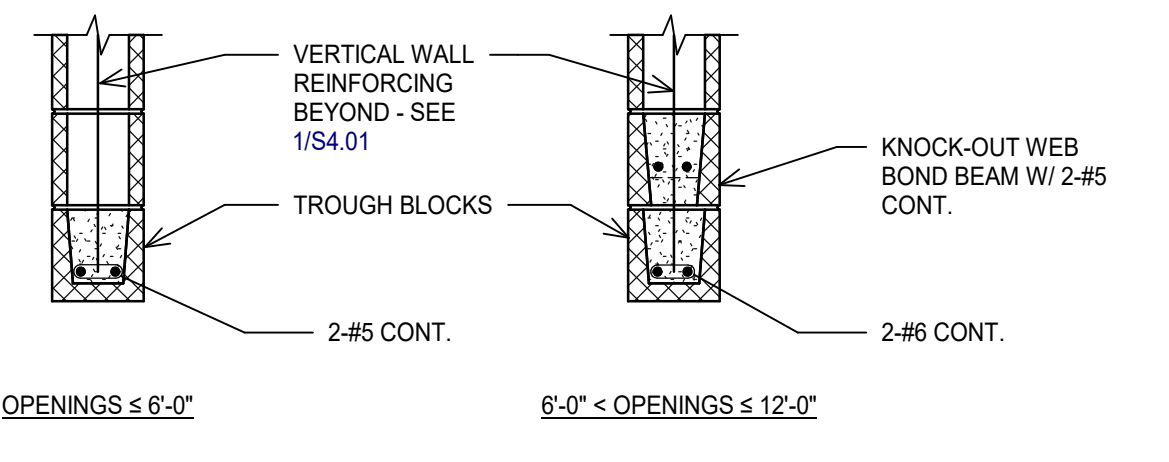
NOTES:
 1. AT WALLS WITH DOUBLE REINFORCING, PROVIDE SINGLE DOWEL AT SIZE AND SPACING OF SCHEDULED WALL REINFORCING. CENTER DOWEL ON WALL, U.N.O.
 2. MASONRY DOWELS SHALL BE TIED IN OR DRILLED AND ADHERED. MASONRY DOWELS SHALL NOT BE "STABBED" IN.
 3. HOLES FOR MASONRY DOWELS MUST BE CLEANED WITH A WIRE BRUSH AND COMPRESSED AIR. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

WALL THICKNESS (IN.) (NOM.)	LOCATION	REINF.	REMARKS
8"	TYP. - U.N.O.	#5 @ 32" O.C.	
8"	UNDER STORE FRONT WINDOWS	#5 @ 16" O.C.	
8"	DUMPSTER WALLS	#5 @ 16" O.C.	

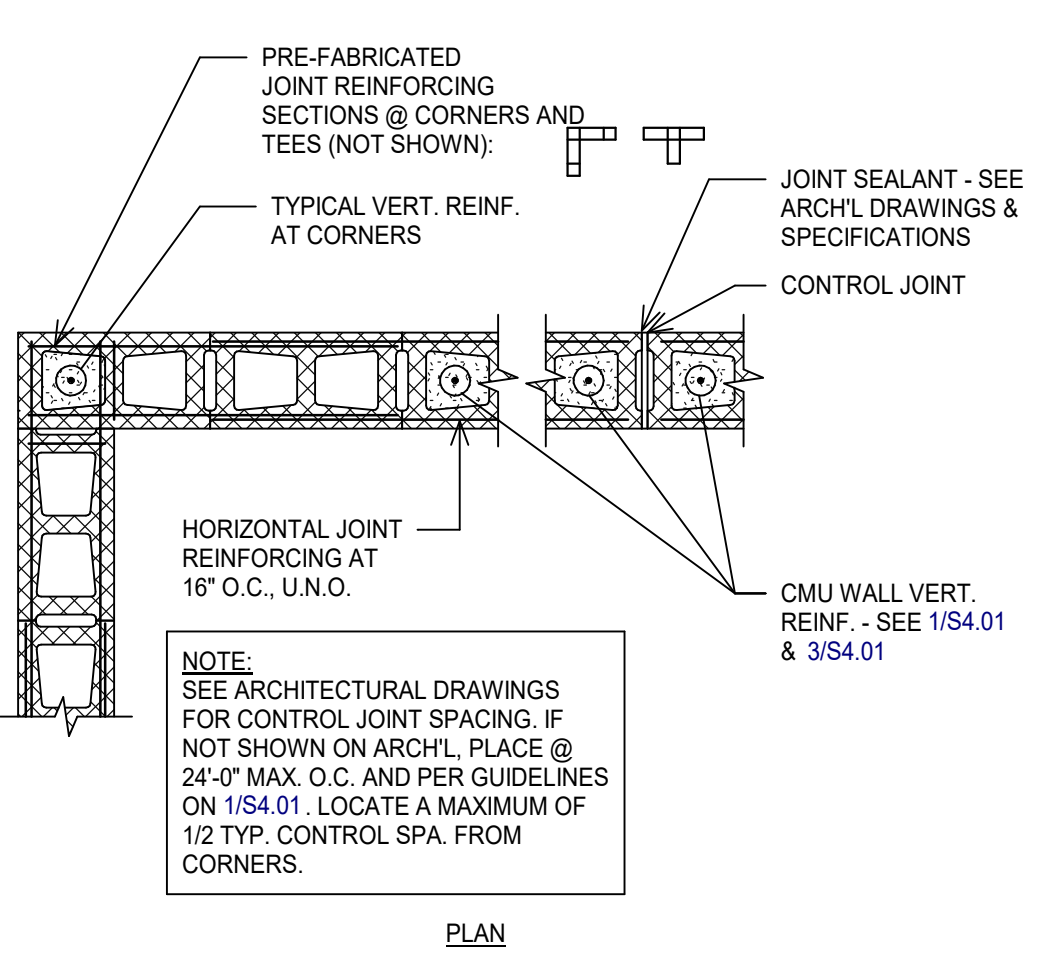
3 CMU WALL REINFORCING SCHEDULE
NO SCALE



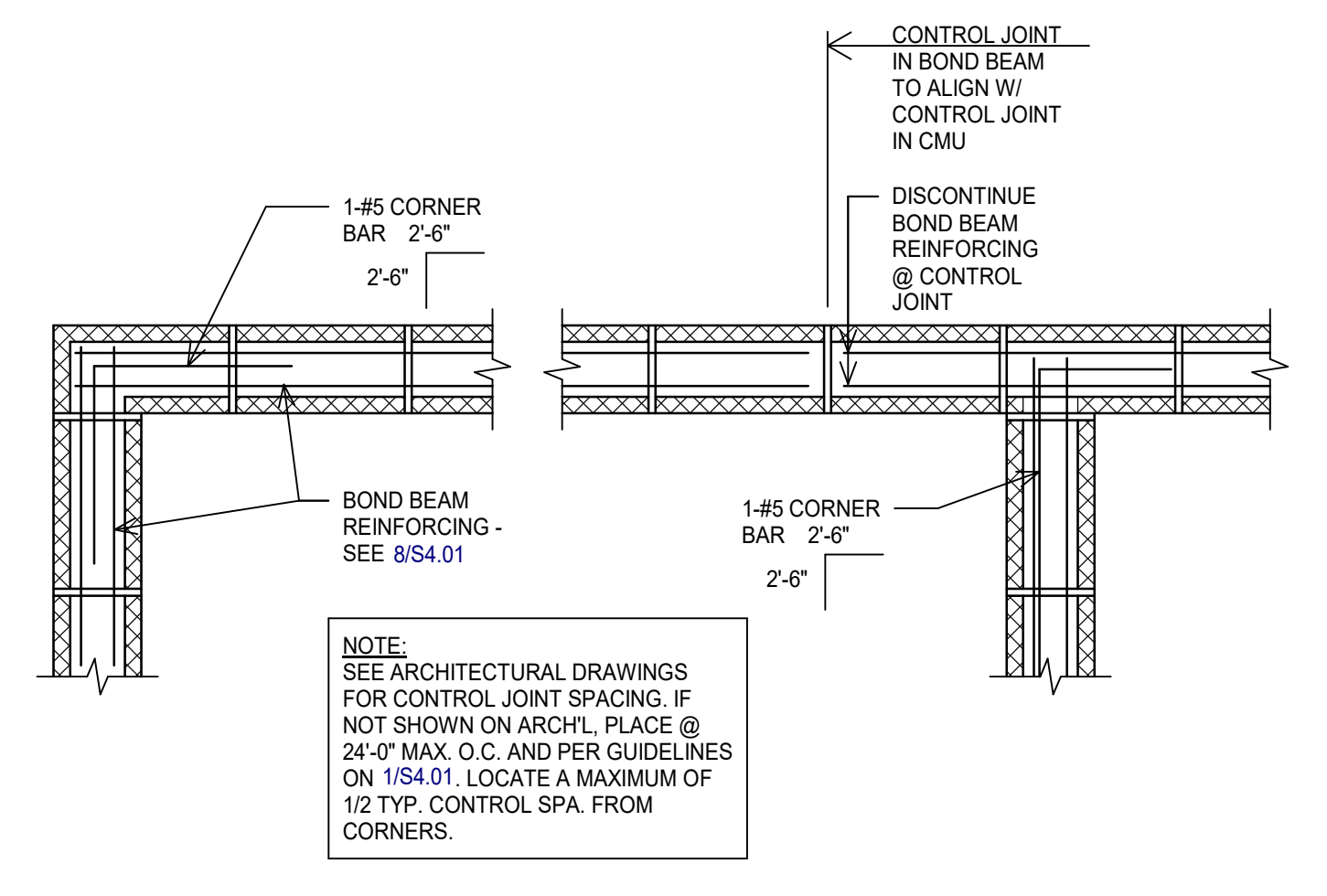
4 TYPICAL CMU BAR PLACEMENT DETAIL
NO SCALE



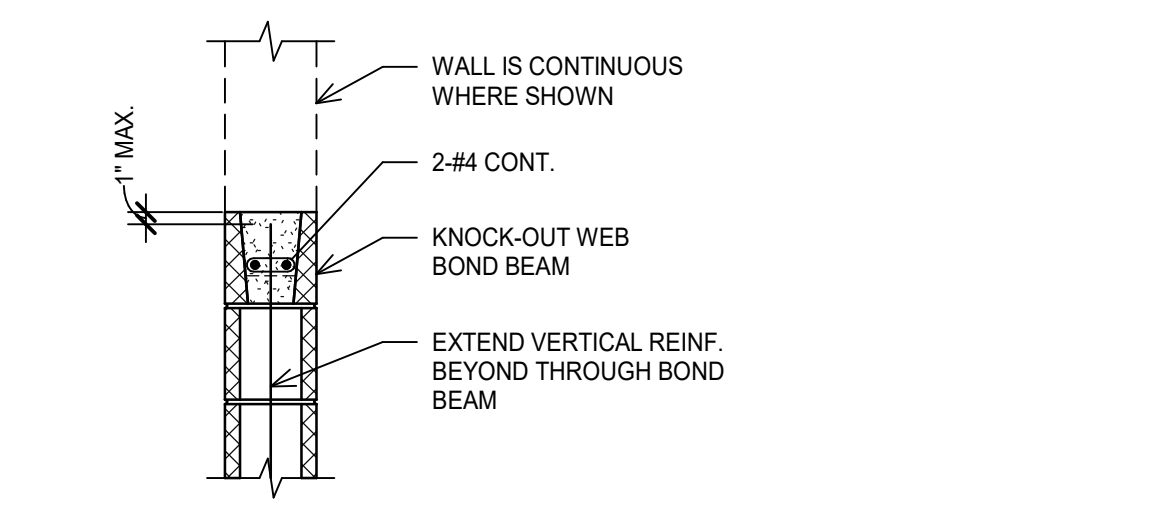
5 CMU WALL JAMB REINFORCING DETAIL - CORNER & TEE-CONDITIONS
NO SCALE



6 CMU WALL JAMB REINFORCING DETAIL
NO SCALE



7 TYPICAL CMU LINTEL DETAIL
NO SCALE



8 TYPICAL CMU BOND BEAM DETAIL
NO SCALE

WALL HEIGHT BETWEEN SUPPORTS *	CLEAR OPENING SIZE (W)				
	< 8'-0"	< 10'-0"	< 12'-0"	< 14'-0"	< 16'-8"
$\leq 10'-0"$	8' / 2-#5	8' / 2-#5	8' / 2-#5	8' / 2-#5	16' / 4-#6
$\leq 12'-0"$	8' / 2-#5	8' / 2-#5	8' / 2-#6	16' / 4-#6	16' / 4-#6
$\leq 14'-0"$	8' / 2-#6	8' / 2-#7	16' / 4-#5	16' / 4-#6	24' / 6-#6
$\leq 16'-0"$	16' / 2-#7	16' / 4-#6	16' / 4-#6	16' / 4-#7	24' / 6-#7
$\leq 18'-0"$	16' / 2-#7	16' / 4-#6	24' / 6-#6	24' / 6-#7	32' / 8-#7

* SUPPORTS ARE DEFINED AS FLOORS, ROOFS, GIRTS, ETC. THAT ARE CONNECTED TO THE WALL WHICH BRACE THE WALL OUT OF PLANE.

WALL HEIGHT BETWEEN SUPPORTS *	CLEAR OPENING SIZE (W)				
	< 8'-0"	< 10'-0"	< 12'-0"	< 14'-0"	< 16'-8"
$\leq 10'-0"$	8' / 2-#5	8' / 2-#5	8' / 2-#5	8' / 2-#5	16' / 4-#6
$\leq 12'-0"$	8' / 2-#5	8' / 2-#5	8' / 2-#6	16' / 4-#6	16' / 4-#6
$\leq 14'-0"$	8' / 2-#6	8' / 2-#7	16' / 4-#5	16' / 4-#6	24' / 6-#6
$\leq 16'-0"$	16' / 4-#6	16' / 4-#6	16' / 4-#6	16' / 4-#7	24' / 6-#7
$\leq 18'-0"$	16' / 4-#6	16' / 4-#6	24' / 6-#6	24' / 6-#7	32' / 8-#7

* SUPPORTS ARE DEFINED AS FLOORS, ROOFS, GIRTS, ETC. THAT ARE CONNECTED TO THE WALL WHICH BRACE THE WALL OUT OF PLANE.

9 TYPICAL CMU BAR PLACEMENT DETAIL
NO SCALE

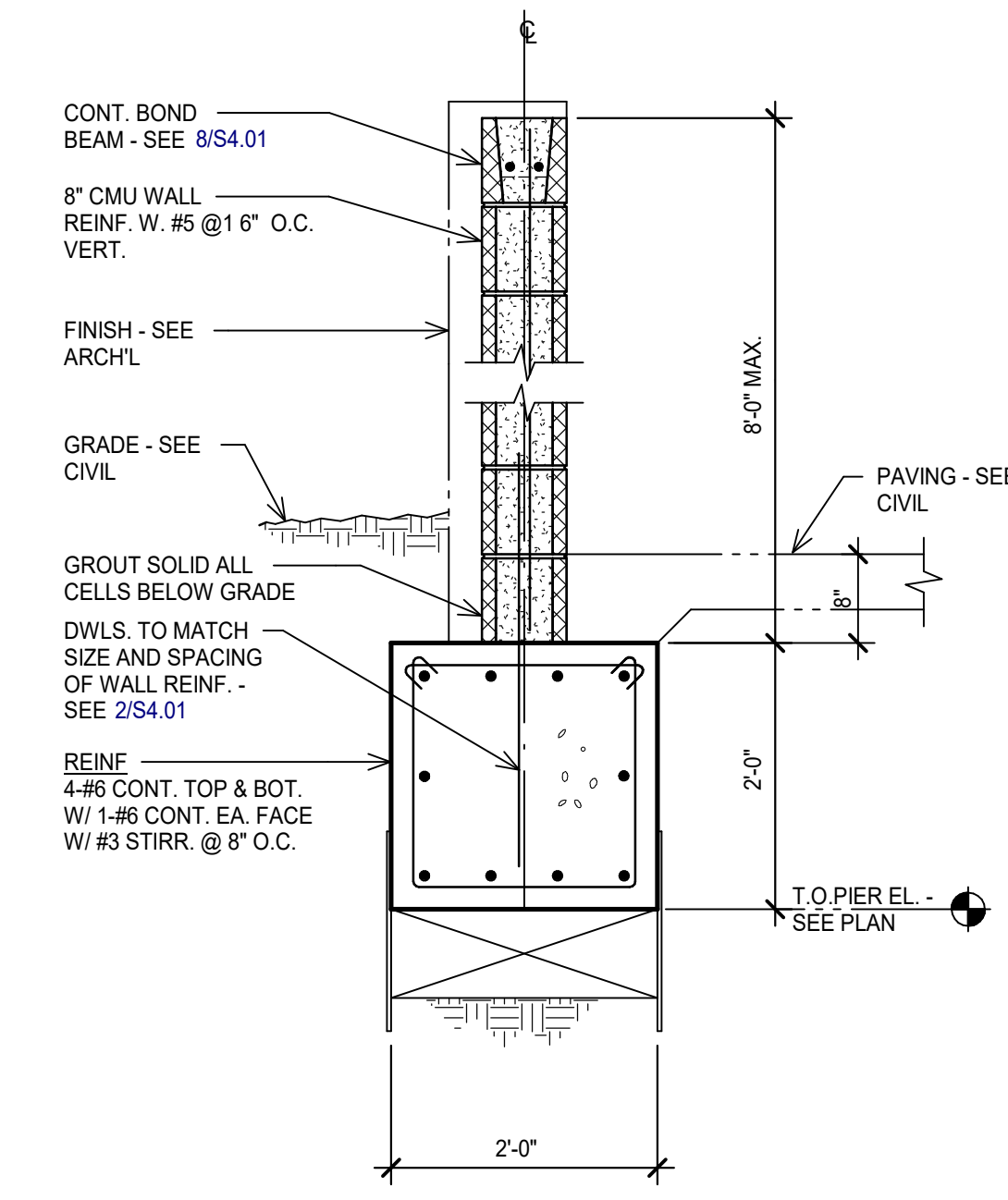
10 TYPICAL CORNER BARS AT BOND BEAMS DETAIL
NO SCALE



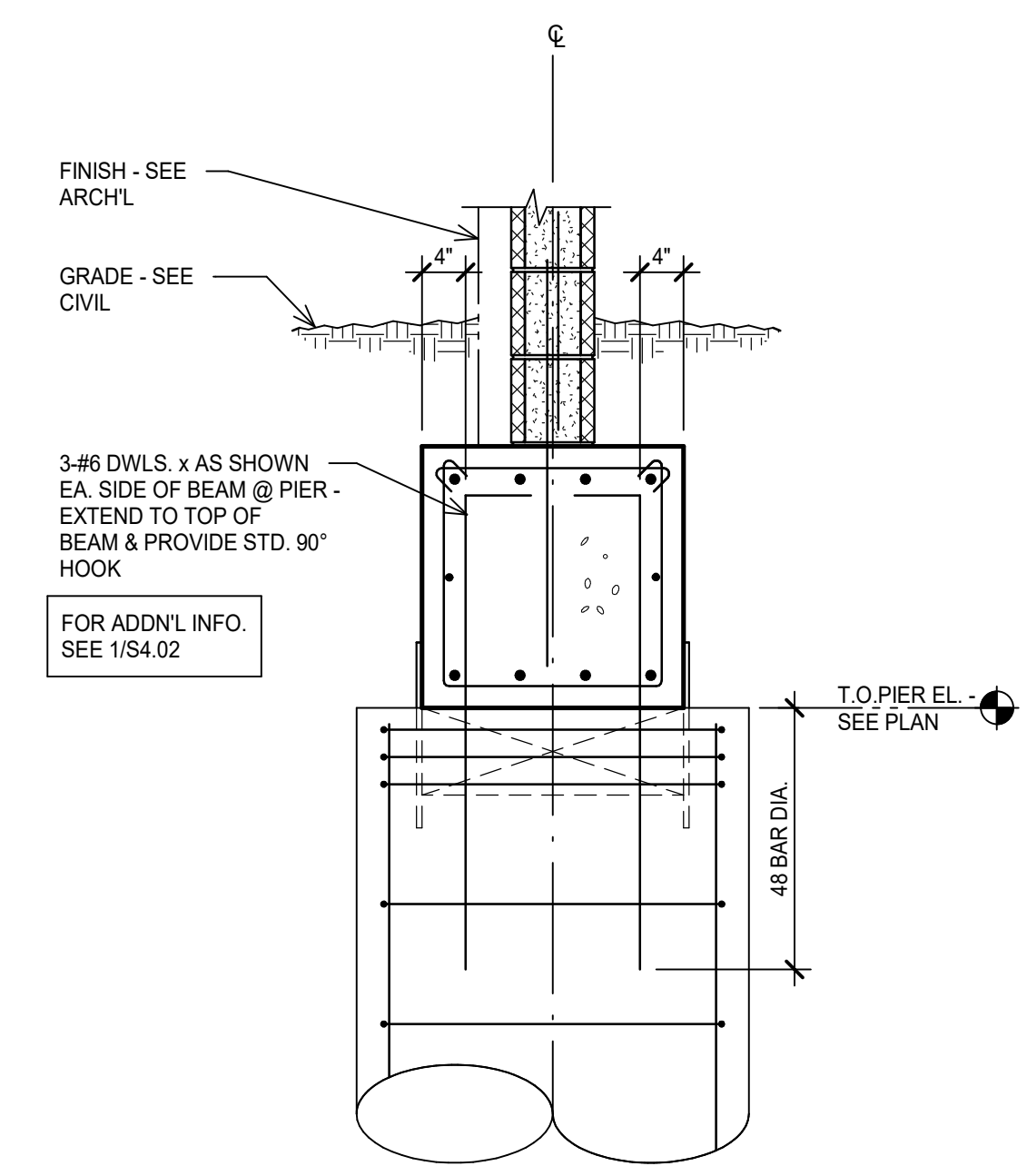
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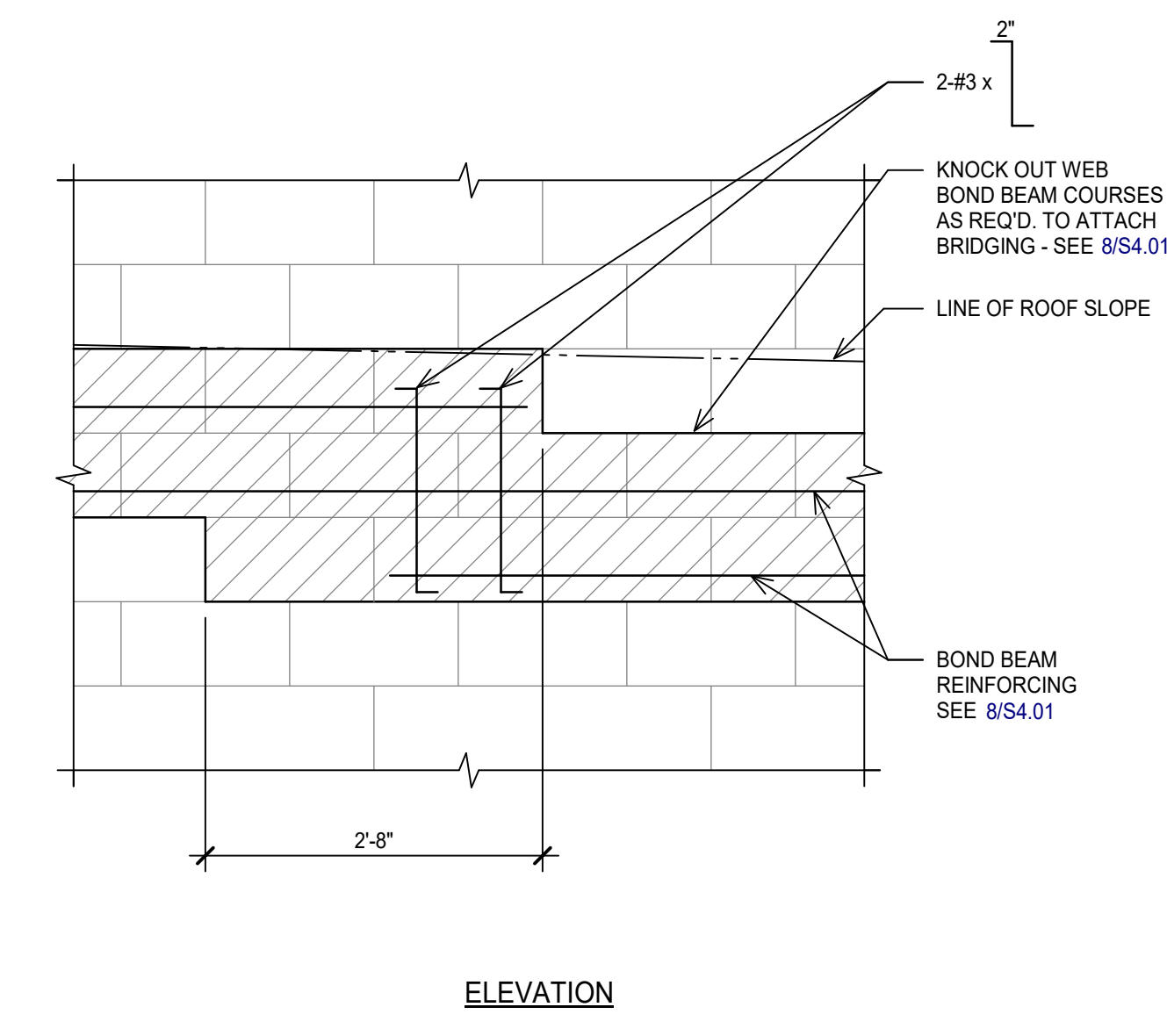
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 Drawn By: JRP
 Checked By: CRM
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 Drawing No.



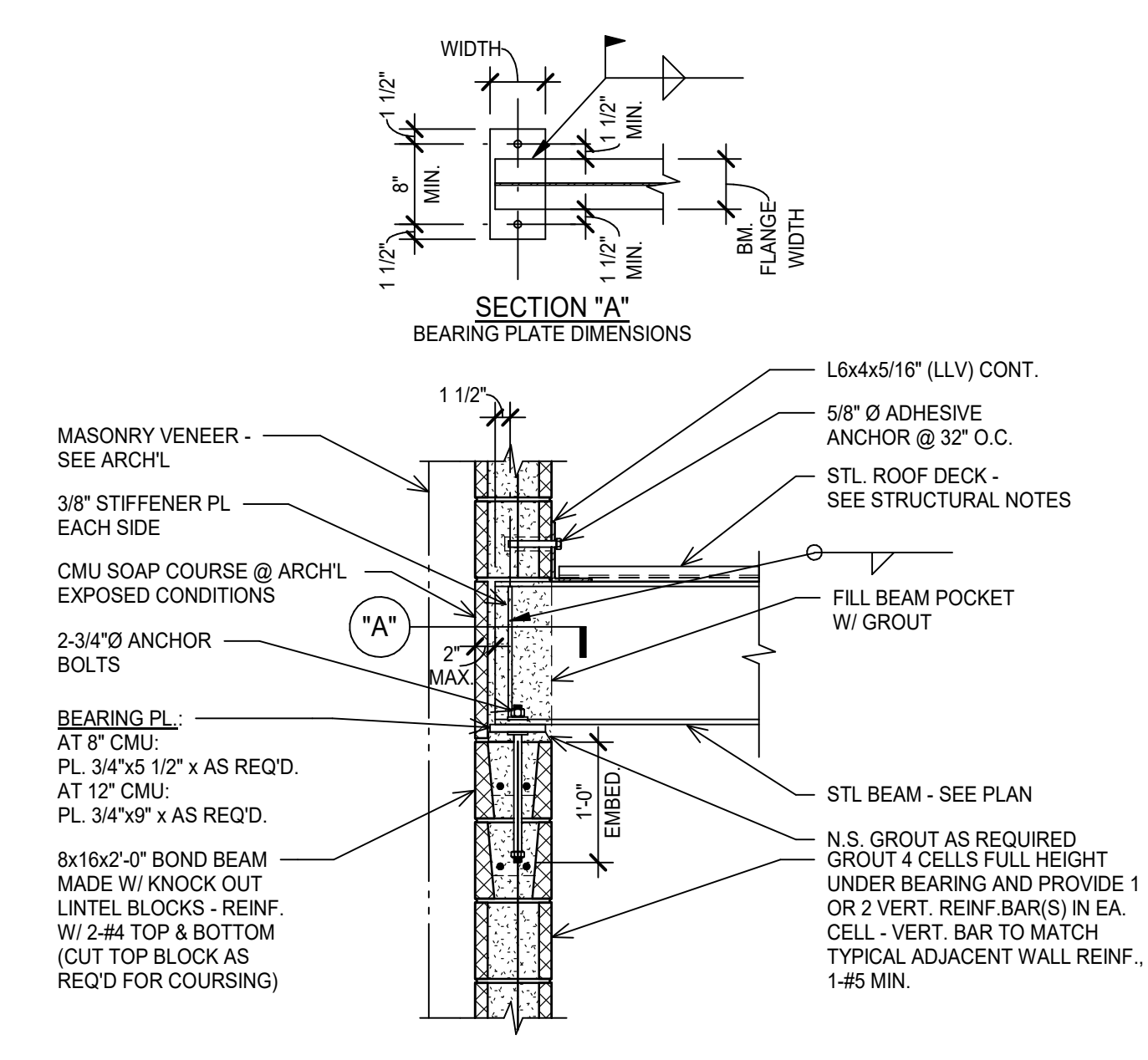
1 TYPICAL CMU SCREEN WALL DETAIL
NO SCALE



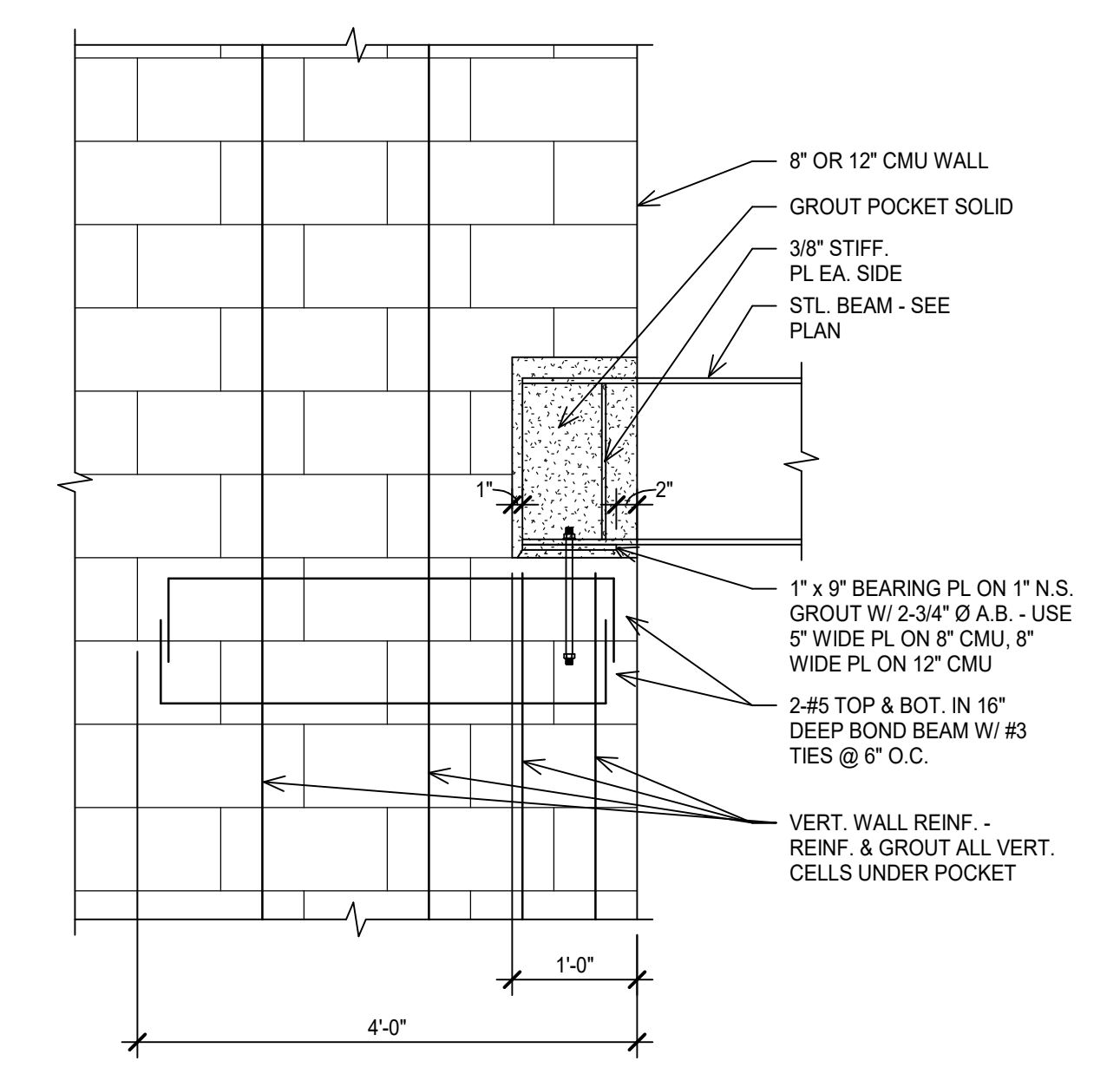
2 TOP OF PIER DETAIL AT CMU SCREEN WALL DETAIL
NO SCALE



3 TYPICAL STEP IN BOND BEAM DETAIL
NO SCALE



4 TYPICAL MASONRY WALL BEARING BEAM DETAIL
NO SCALE



5 TYPICAL BEAM BEARING AT END OF MASONRY WALL
NO SCALE



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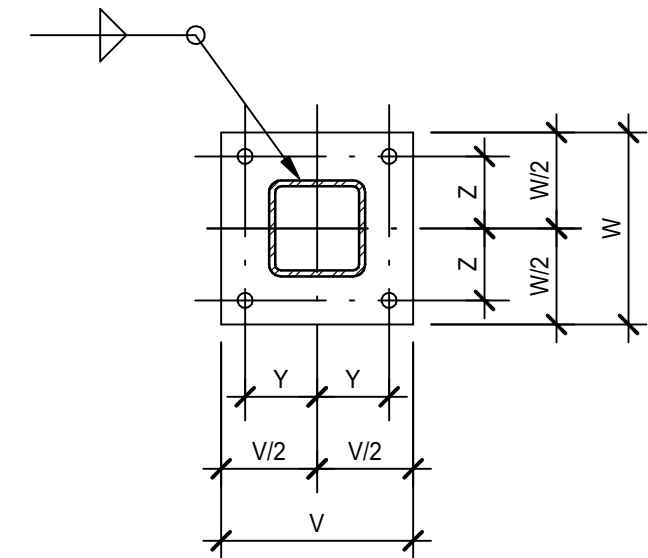
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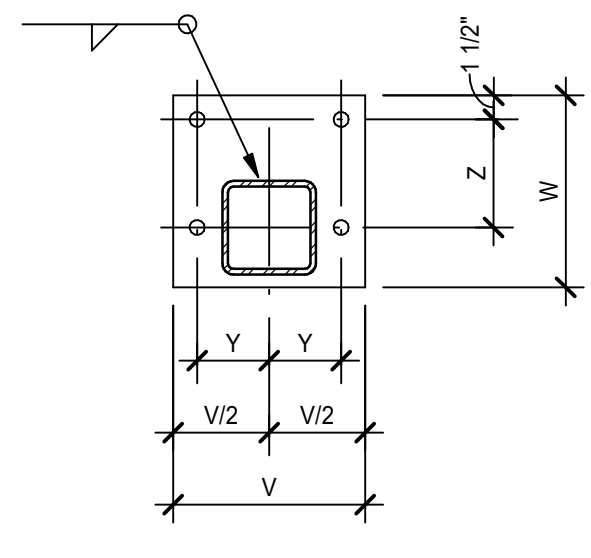
Sheet Title:
TYPICAL MASONRY
SECTIONS & DETAILS

Drawing No.

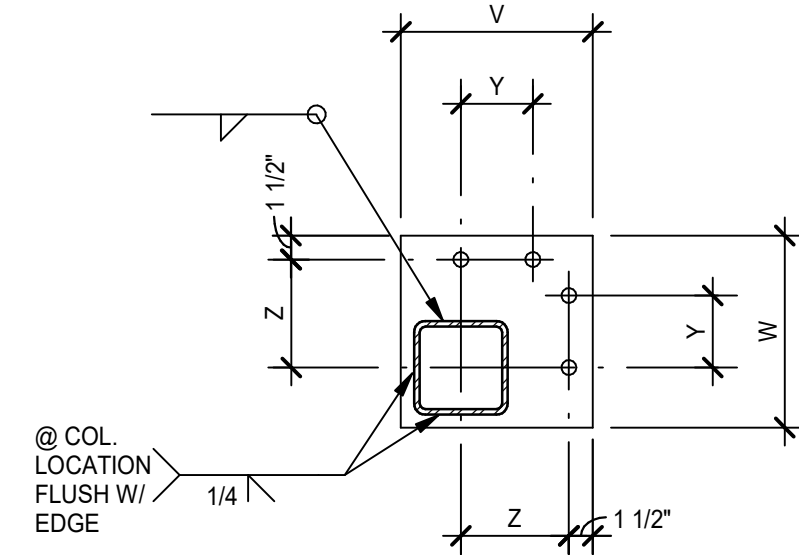
MARK	BASE PLATE DIMENSIONS					DETAIL	ANCHOR BOLTS		
	V	W	Y	Z	T		NO./TYPE	DIA.	EMBED LENGTH
BP-1	11"	11"	4"	6 1/2"	3/4"	3/SS.01	4/AB-1	3/4"	18"
BP-2	9"	9"	4 1/2"	4 1/2"	3/4"	4/SS.01	4/AB-1	3/4"	18"
BP-3	11"	11"	4"	3/4"	3/4"	2/SS.01	4/AB-1	3/4"	18"
BP-4	12"	12"	4 1/2"	6"	3/4"	3/SS.01	4/AB-1	3/4"	18"



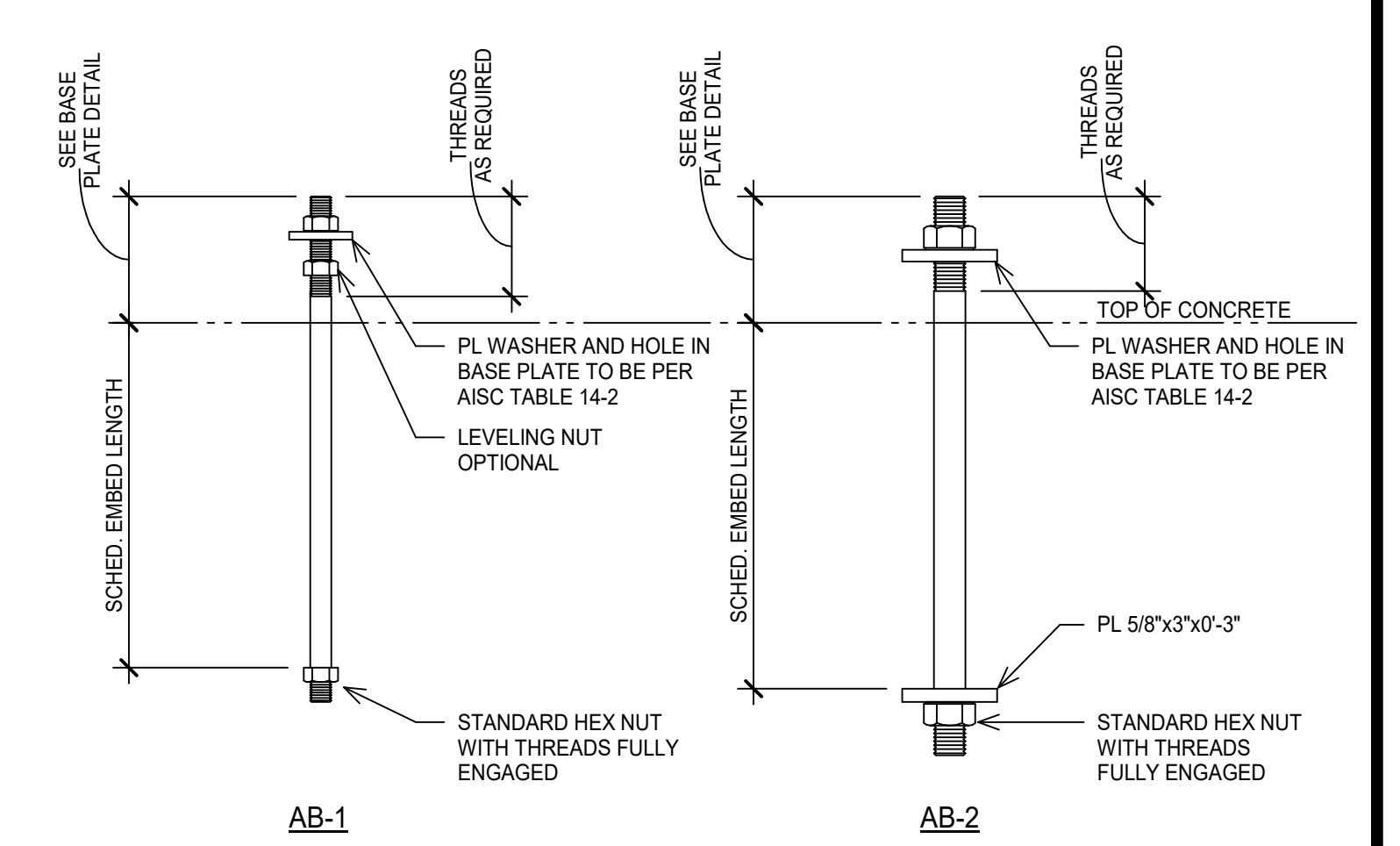
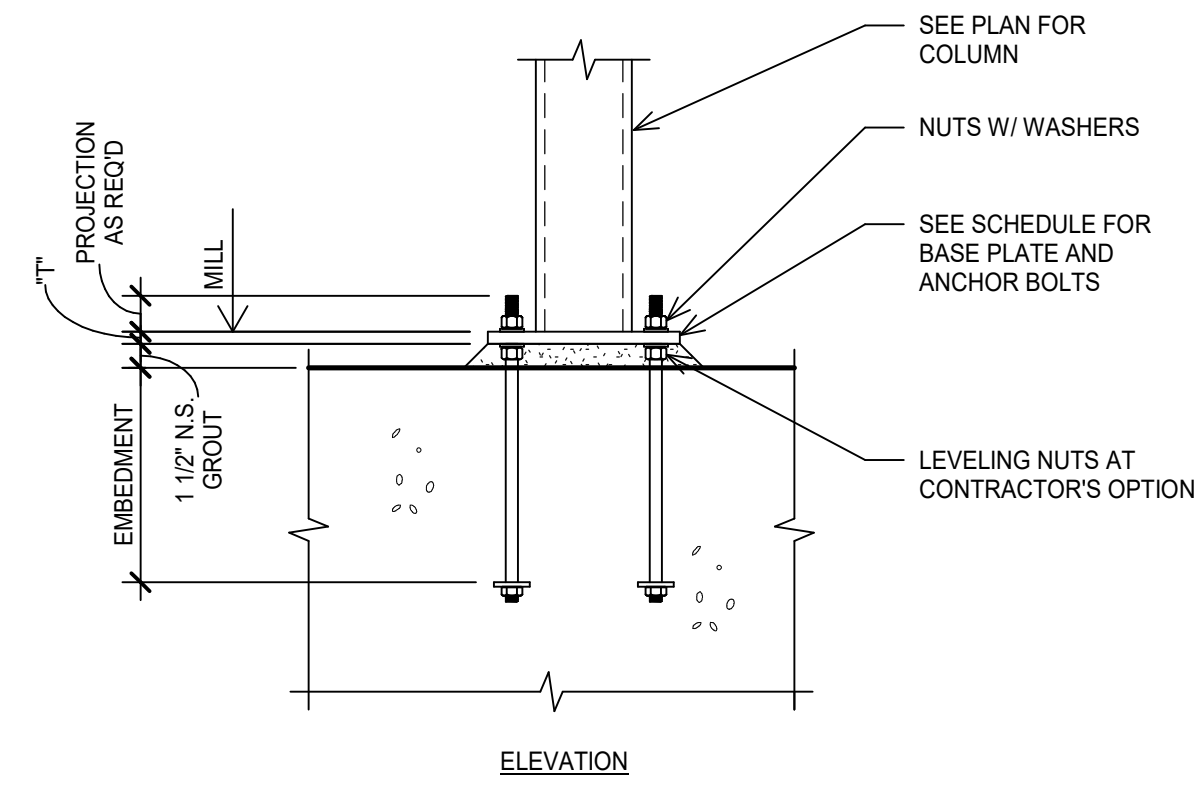
NOTES:
1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/SS.01



NOTES:
1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/SS.01



NOTES:
1. WELD TO BE 1/16" SMALLER THAN THICKNESS OF TUBE.
2. FOR BASE PLATE ELEVATION SEE DETAIL 5/SS.01



1 BASE PLATE & ANCHOR BOLT SCHEDULE
NO SCALE

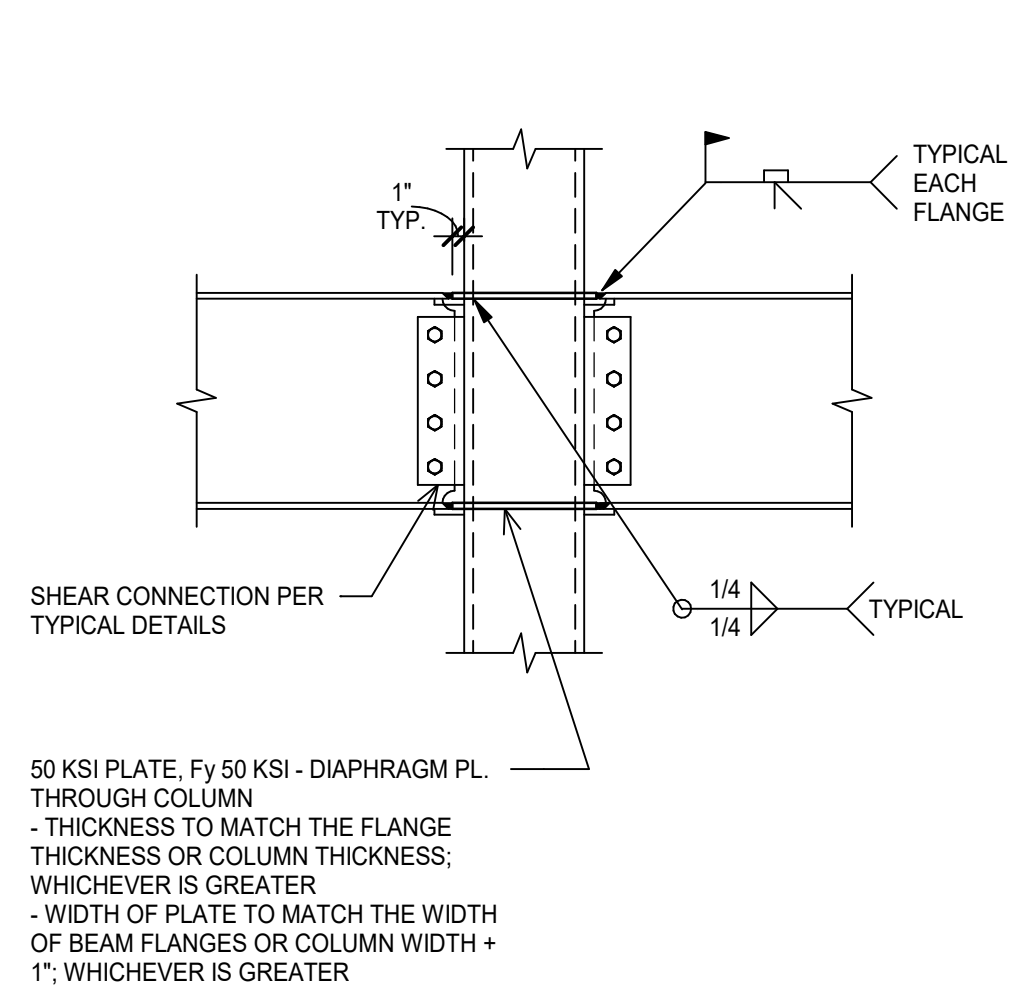
2 TYPICAL BASE PLATE DETAIL
NO SCALE

3 TYPICAL BASE PLATE DETAIL - EDGE COLUMN
NO SCALE

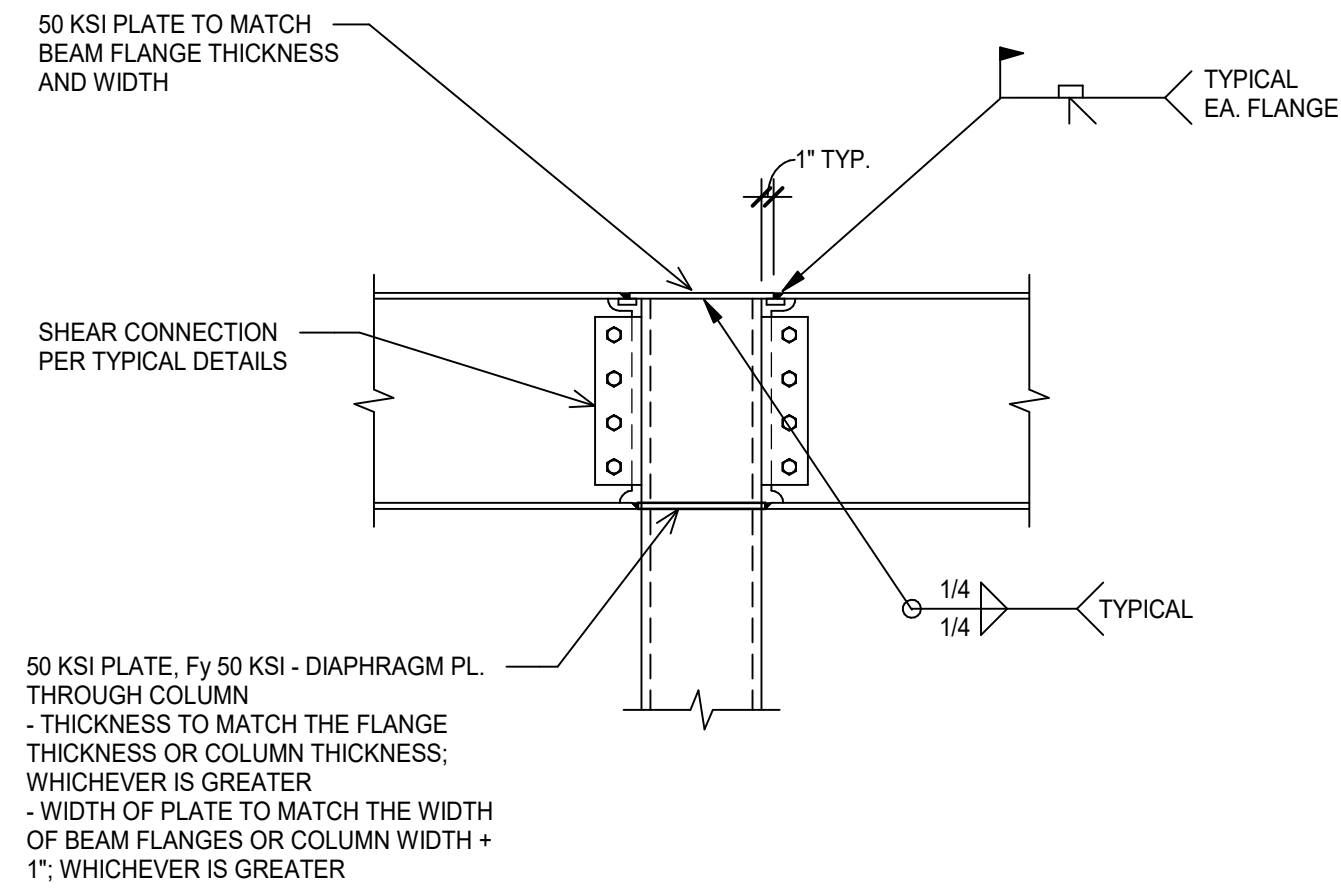
4 TYPICAL BASE PLATE DETAIL - CORNER COLUMN
NO SCALE

5 TYPICAL COLUMN BASE PLATE DETAIL
NO SCALE

6 TYPICAL ANCHOR BOLT TYPES
NO SCALE

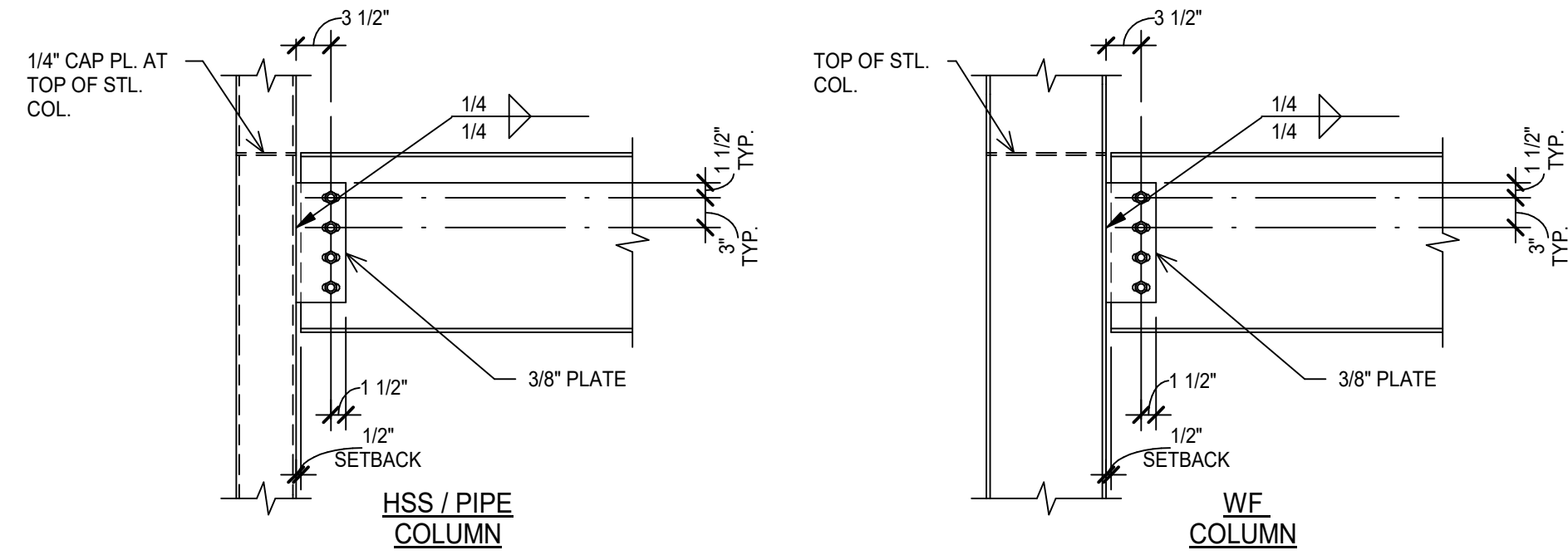


7 TYPICAL GIRDER TO COLUMN FLANGE MOMENT CONNECTION DETAIL
NO SCALE



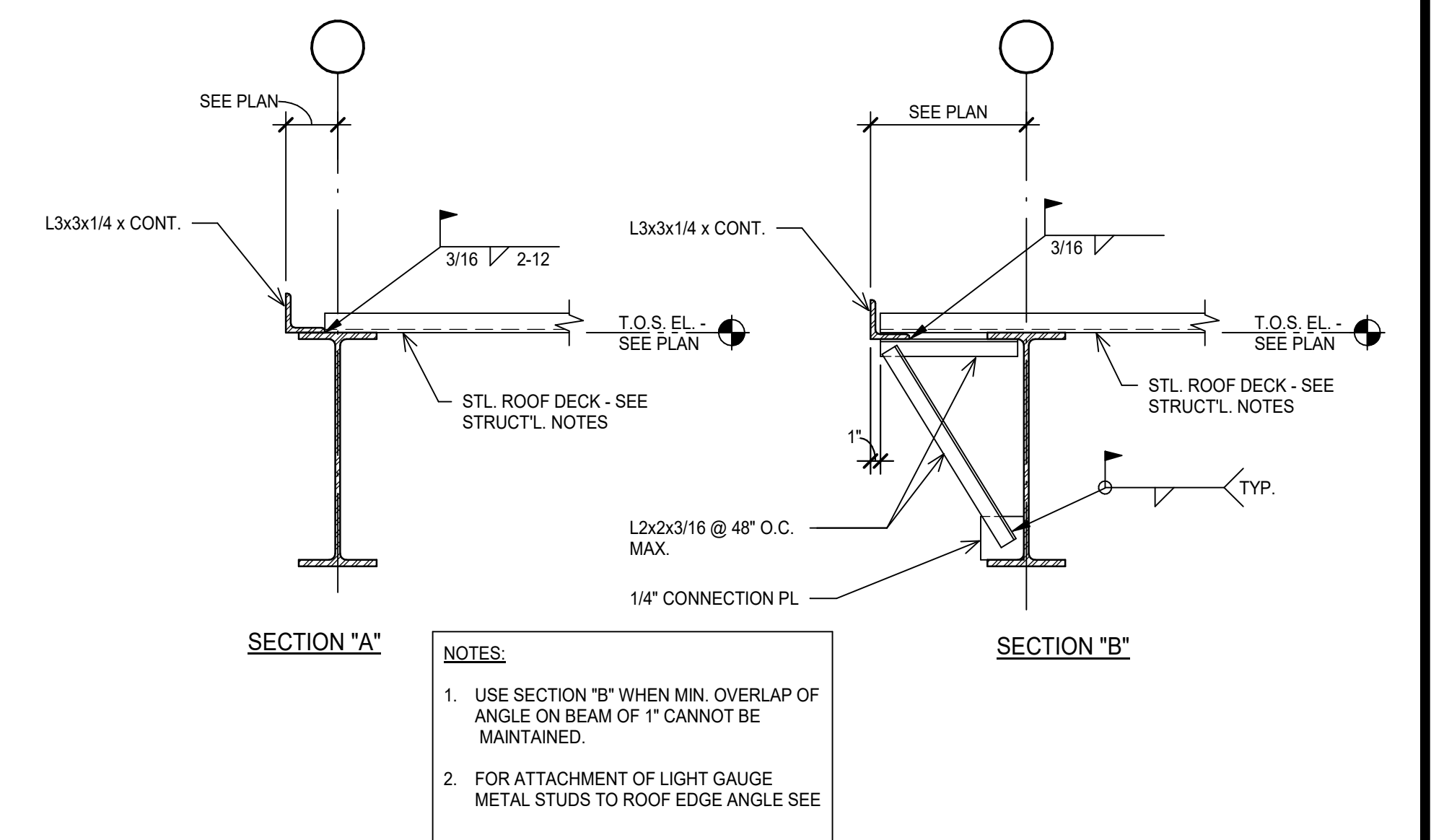
8 TYPICAL BEAM TO TOP OF COL. HIGH MOMENT CONNECTION DETAIL
NO SCALE

NOM. BM. SIZE	# OF BOLTS PER VERT. COL.
W8	2
W10	2
W12	3
W14	4
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9
W33	9
W36	10
W40	11
W44	12



NOTES:
1. BEAMS SHALL HAVE STD. HOLES AND PLATES SHALL HAVE HORIZONTAL SSL HOLES. REFERENCE AISC SPEC. J3.3 FOR HOLE SIZES.

9 TYPICAL BEAM TO HSS / PIPE / WF COLUMN SINGLE PLATE SHEAR CONNECTION DETAIL
NO SCALE

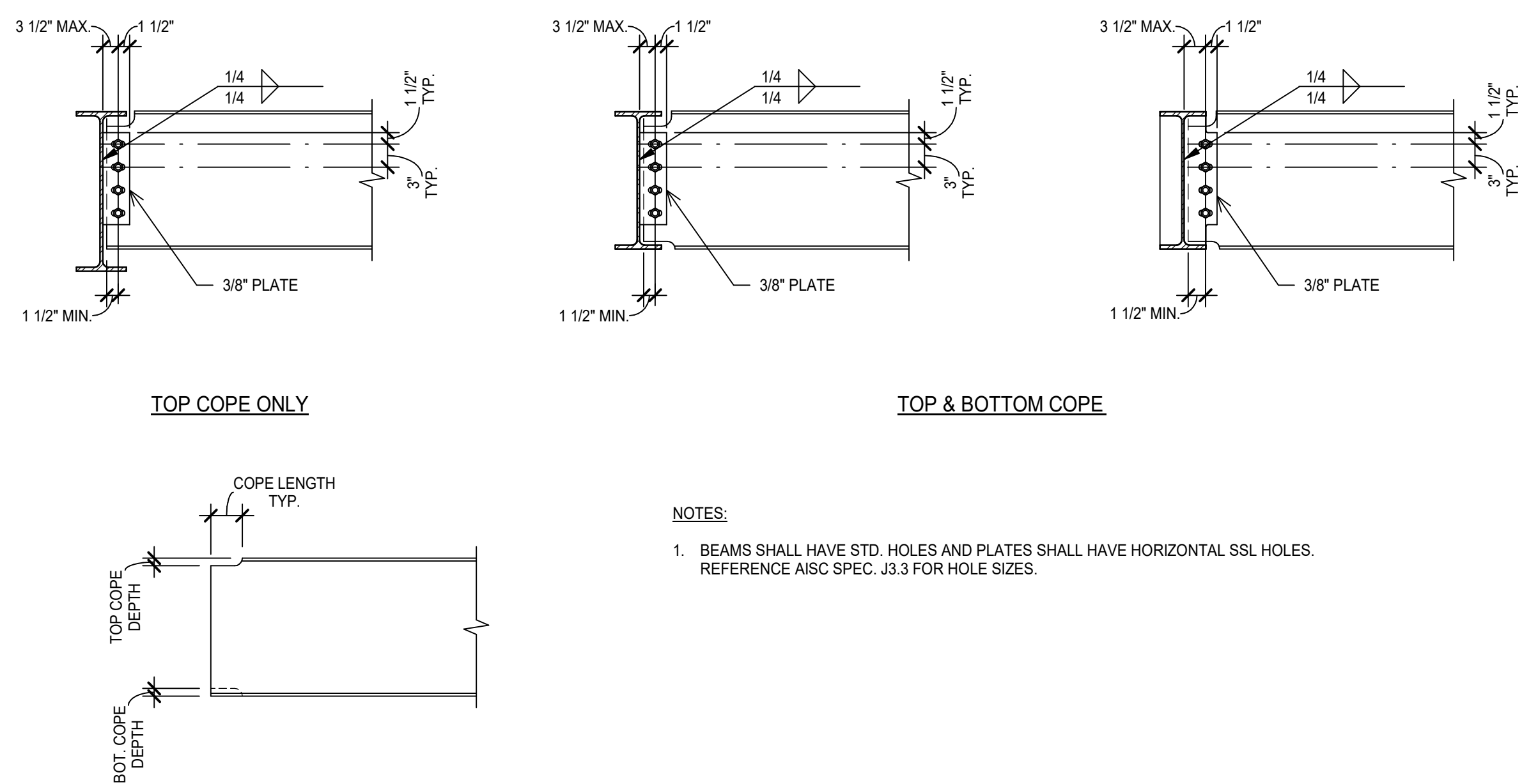


NOTES:
1. USE SECTION "B" WHEN MIN. OVERLAP OF ANGLE ON BEAM OF 1" CANNOT BE MAINTAINED.
2. FOR ATTACHMENT OF LIGHT GAUGE METAL STUDS TO ROOF EDGE ANGLE SEE

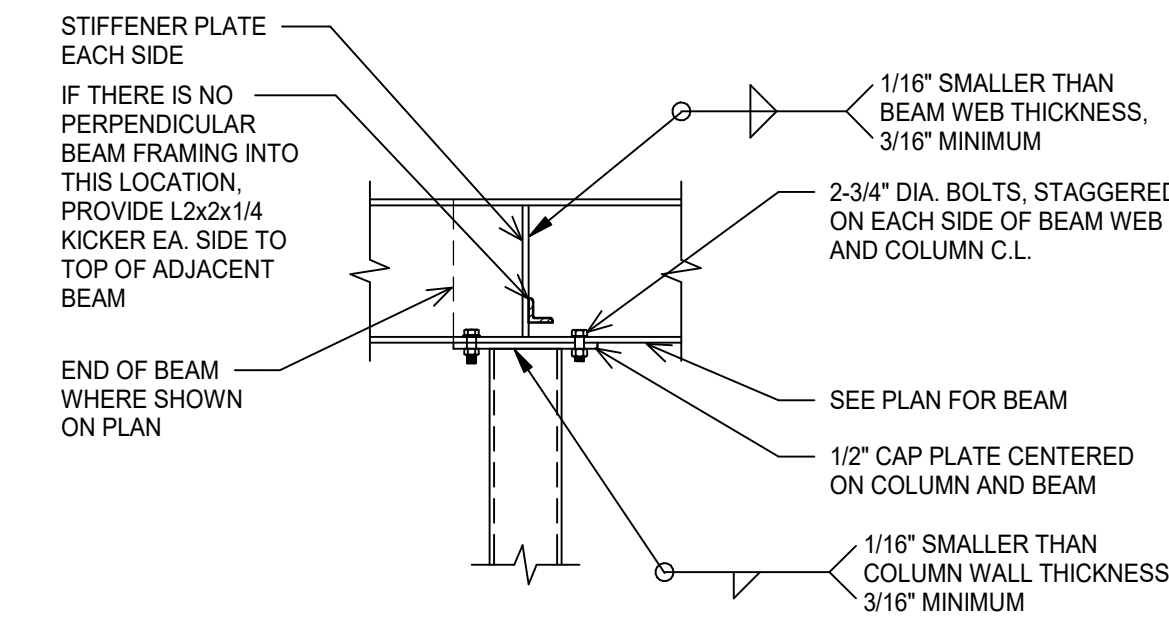
10 TYPICAL EXTERIOR BEAM PARALLEL TO JOISTS DETAIL
NO SCALE

NOM. BM. SIZE	# OF BOLTS PER VERT. COL.
W8	2
W10	2
W12	2
W14	3
W16	3
W18	4
W21	5
W24	5
W27	6
W30	7
W33	8
W36	9
W40	10
W44	11

NOM. BM. SIZE	# OF BOLTS PER VERT. COL.
W10	2
W12	2
W14	3
W16	3
W18	4
W21	5
W24	5
W27	6
W30	7
W33	8
W36	9
W40	10
W44	11

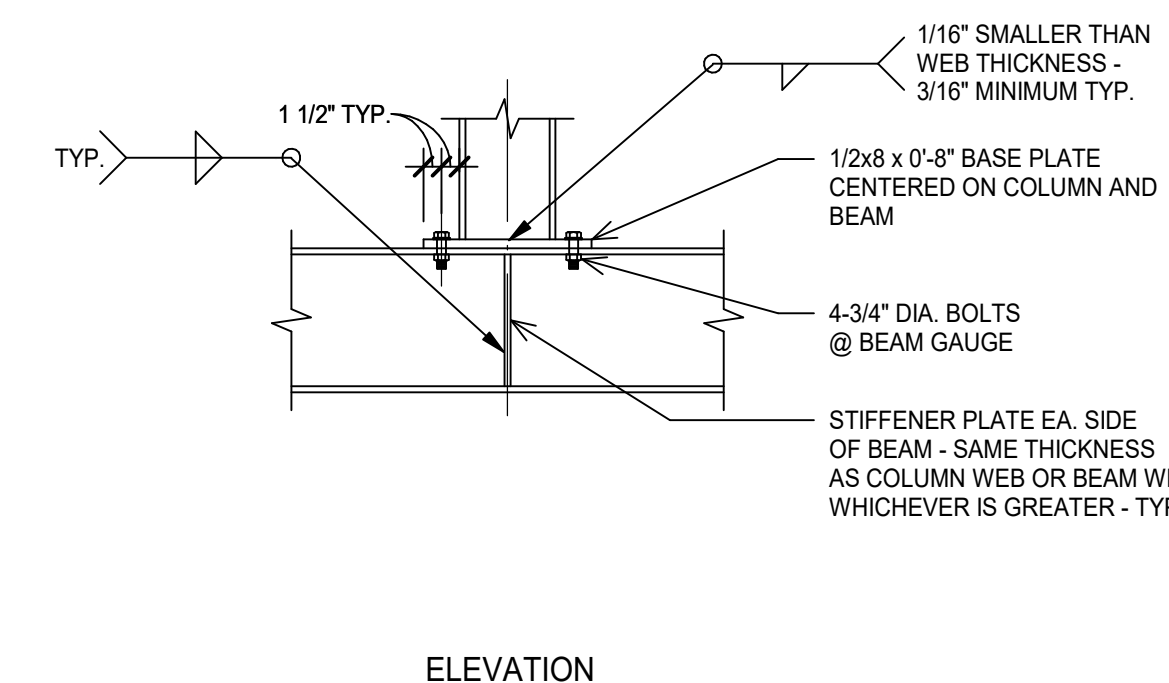


11 TYPICAL BEAM TO BEAM SINGLE PLATE SHEAR CONNECTION DETAIL
NO SCALE



NOTES:
1. SEE ROOF PLAN FOR ROOF SLOPE. SLOPE CAP PLATES ACCORDINGLY.
2. STIFFENER PLATES SHALL BE EQUAL IN THICKNESS TO THE COLUMN WALL THICKNESS OR BEAM WEB THICKNESS, WHICHEVER IS GREATER.
3. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.

12 TYPICAL CAP PLATE - BOLTED CONNECTION DETAIL
NO SCALE



NOTES:
1. CONNECT INTERSECTING BEAMS TO STIFFENER PLATES USING BOLTS IN SINGLE SHEAR DESIGNED FOR ECCENTRIC BEAM REACTION.
2. PROVIDE FLANGE EXTENSIONS AS REQ'D TO MATCH COLUMN BASE PLATE WIDTH.

13 TYPICAL COLUMN SUPPORTED ON BEAM CONNECTION DETAIL
NO SCALE

shaping the built environment

JQ

JQ ENGINEERING, LLP
100 GLASS STREET
214.752.9598
PROJECT NO. 2210175

DALLAS, TEXAS 75207
JQENG.COM
TYPE FORM F-1294



Revisions:

REV.	DATE	TITLE

Date:
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02.11.2022

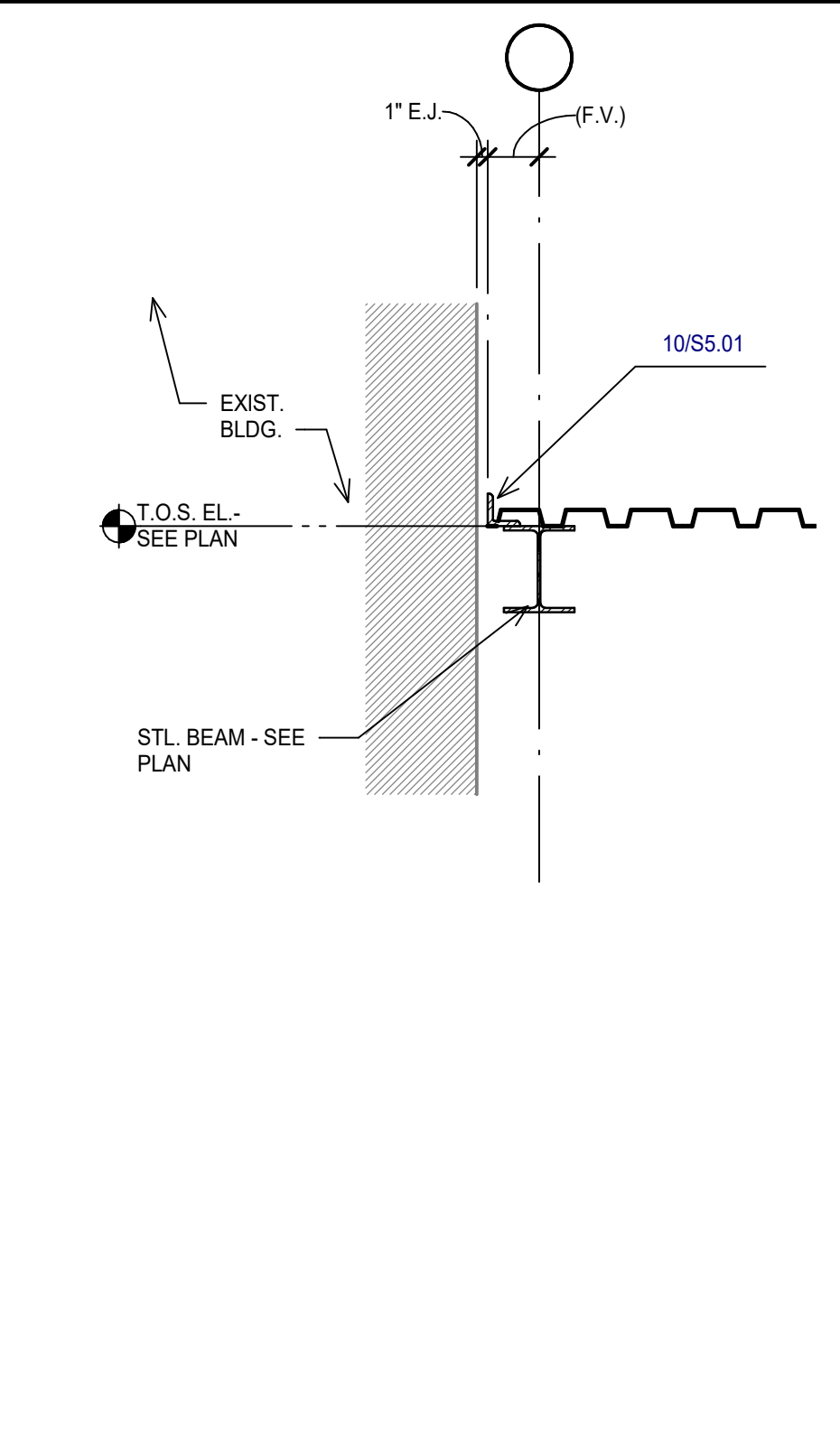
Project No.
2942

Drawn By:
JRP

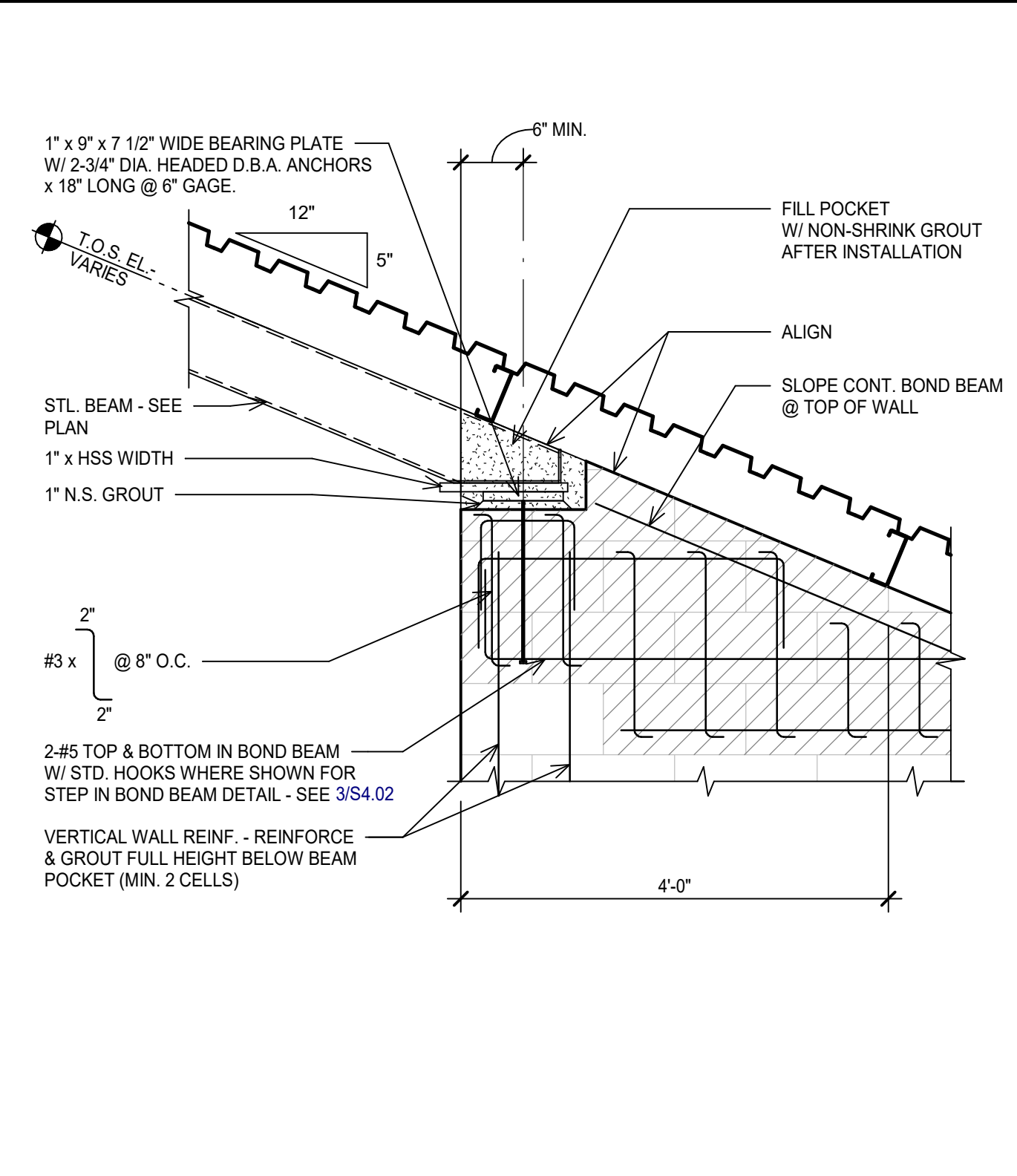
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Sheet Title:
TYPICAL STEEL SECTIONS & DETAILS

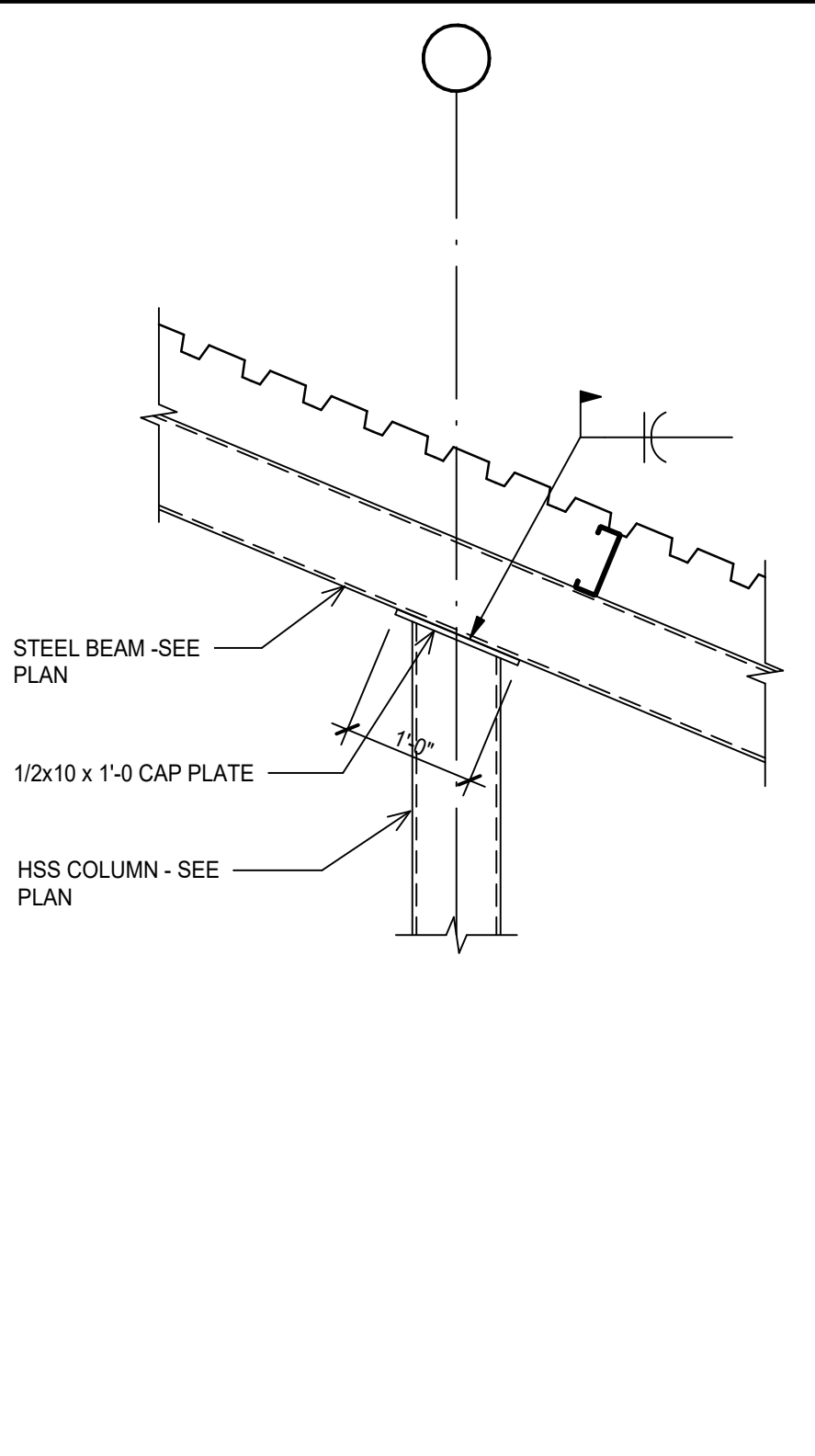
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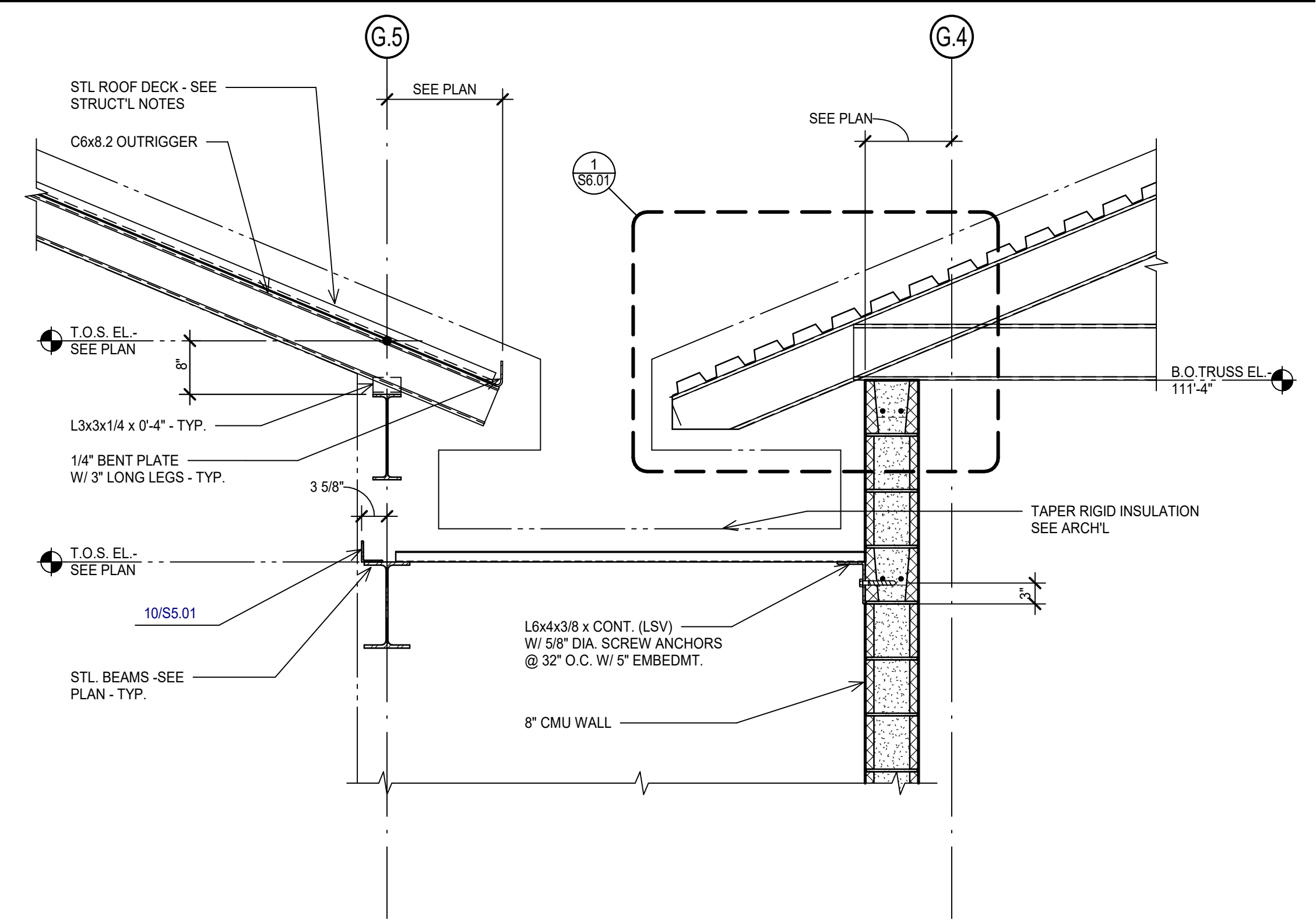
1 SECTION AT EXISTING BUILDING
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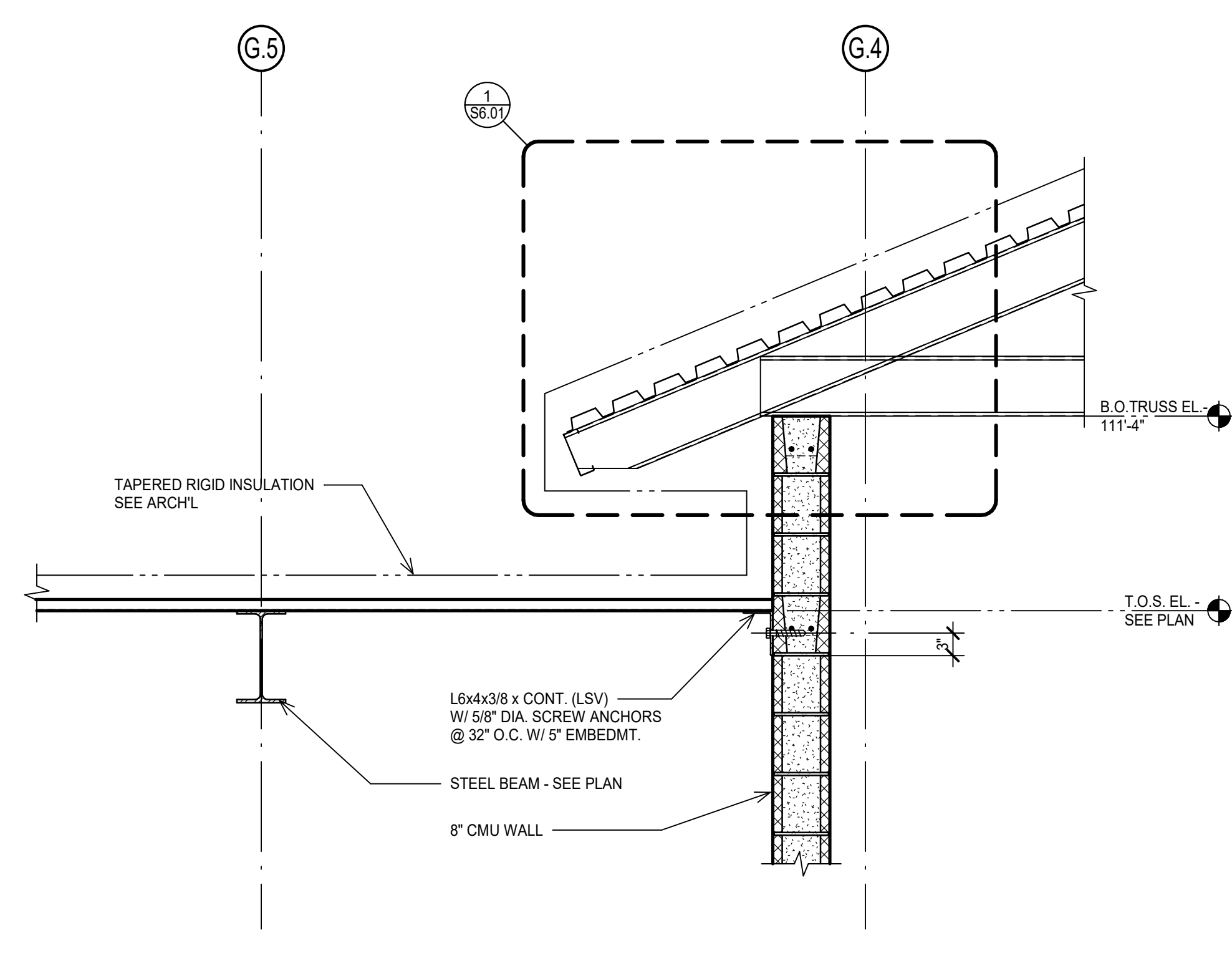
2 BEAM BEARING DETAIL
 SCALE: 3/4" = 1'-0"



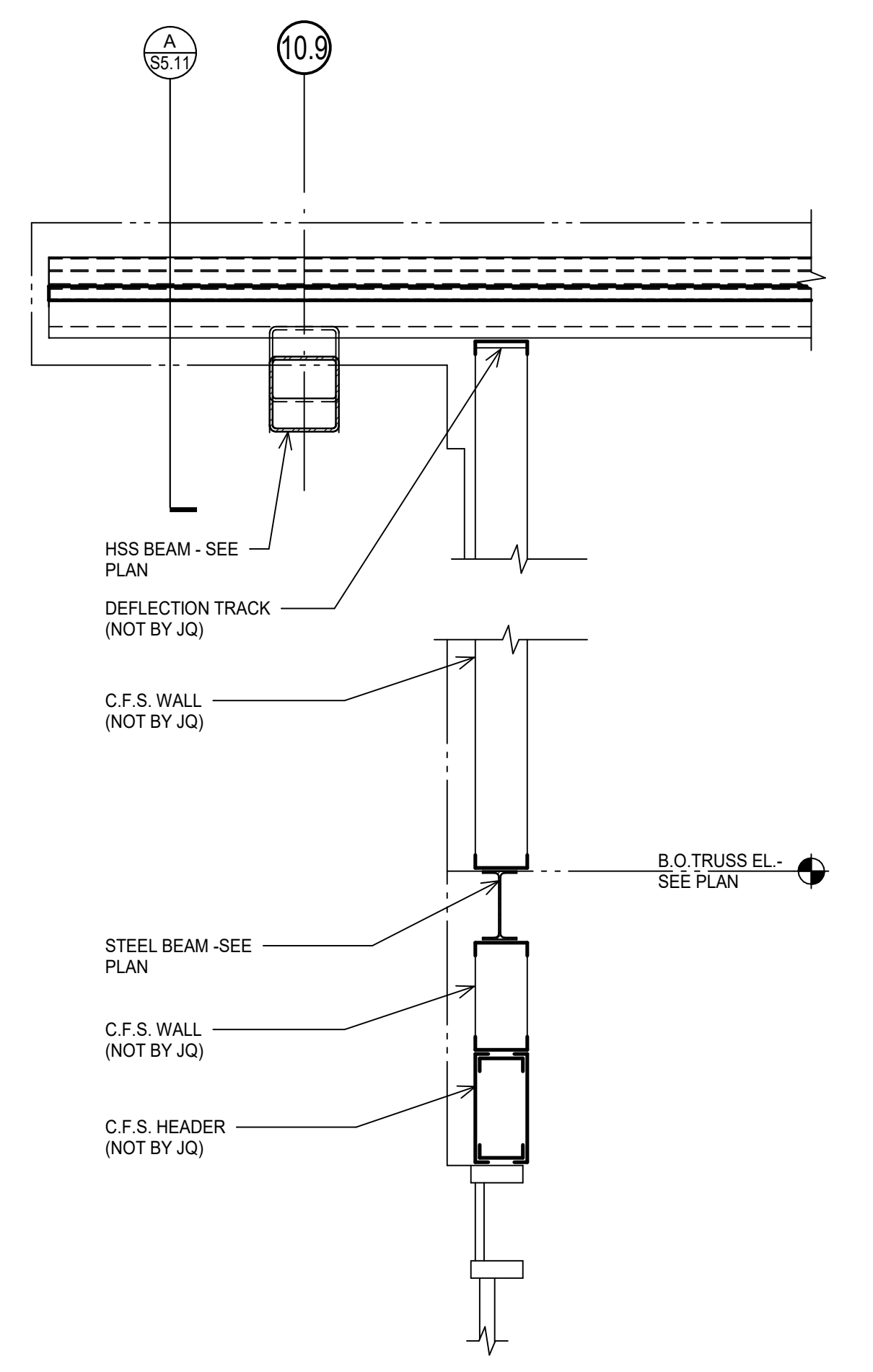
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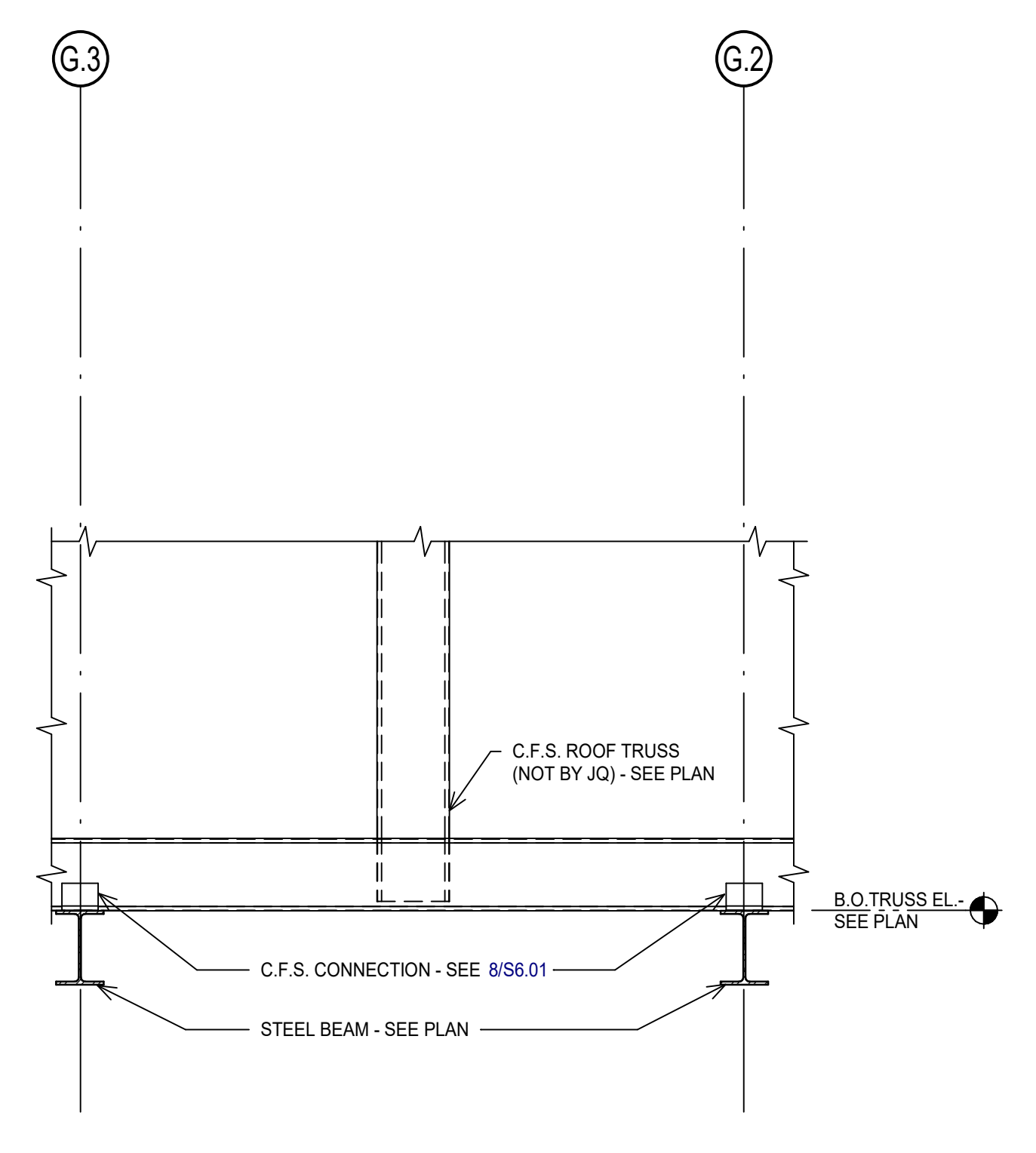
4 SECTION
 SCALE: 3/4" = 1'-0"



5 SECTION
 SCALE: 3/4" = 1'-0"



6 SECTION
 SCALE: 3/4" = 1'-0"



7 SECTION
 SCALE: 3/4" = 1'-0"

gsr | andrade
 ARCHITECTS

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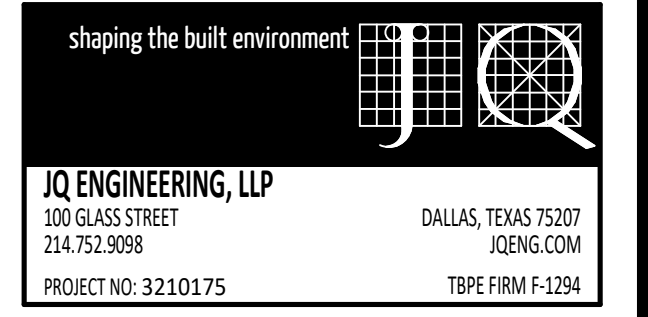
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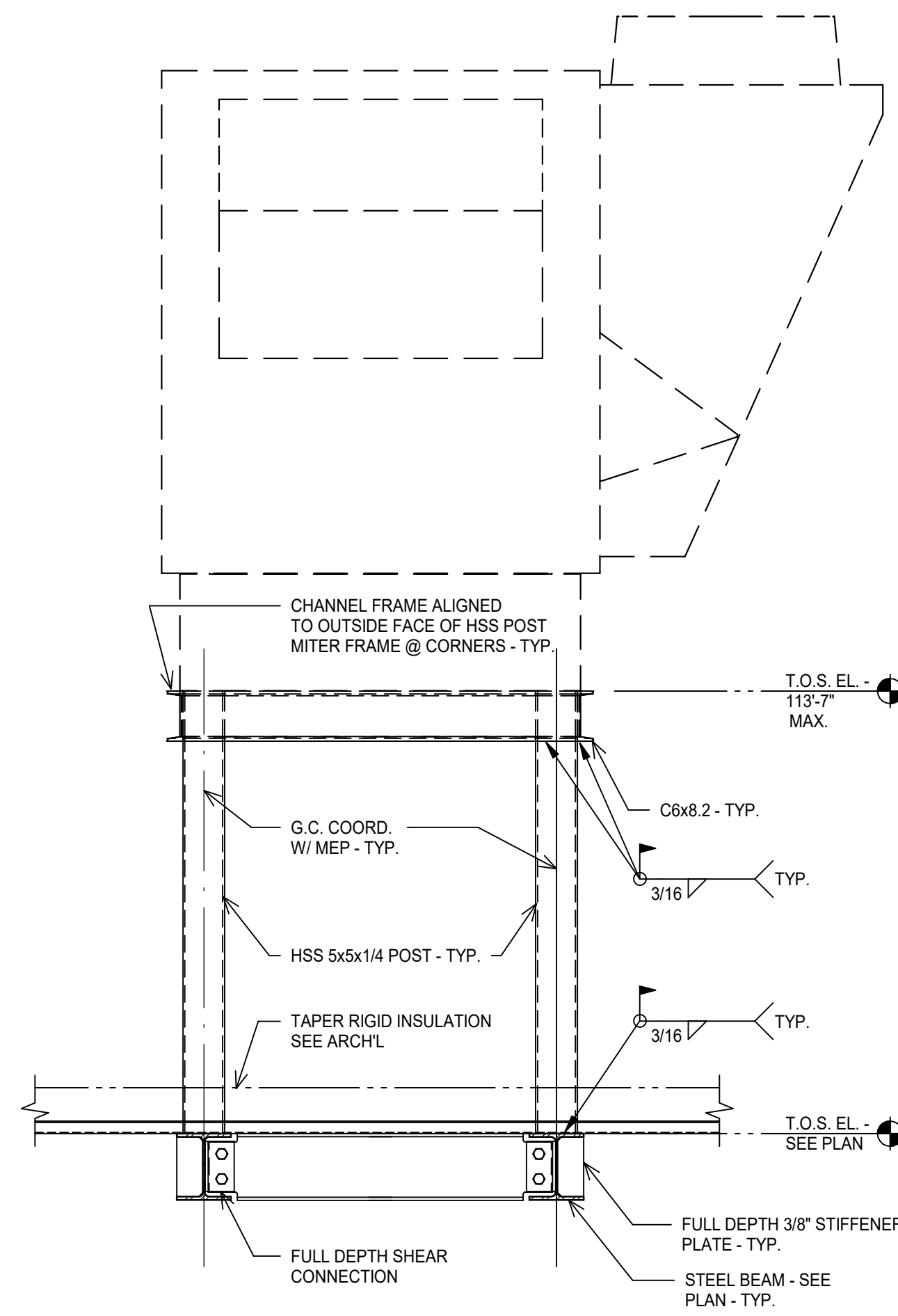
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 STEEL SECTIONS & DETAILS

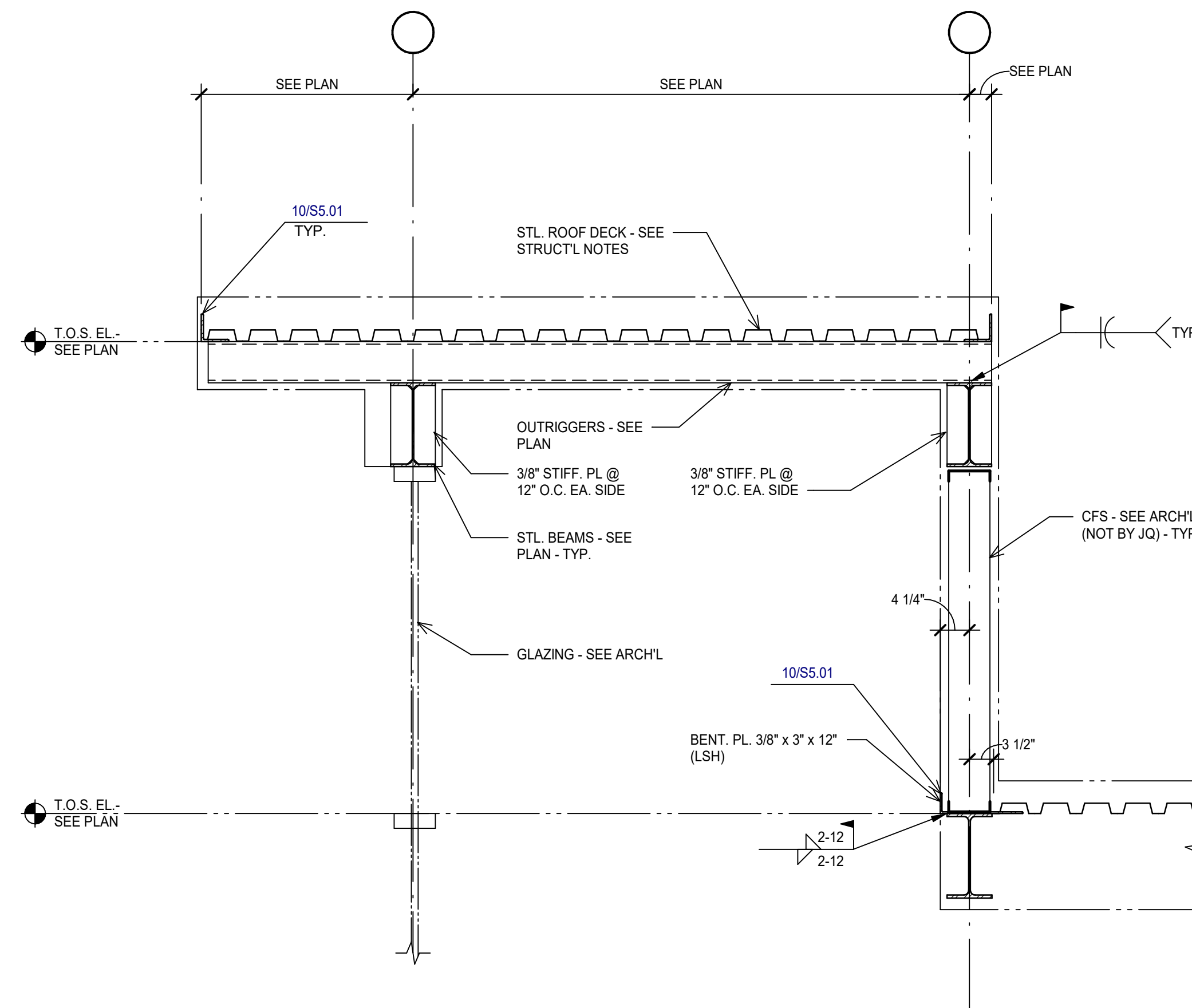
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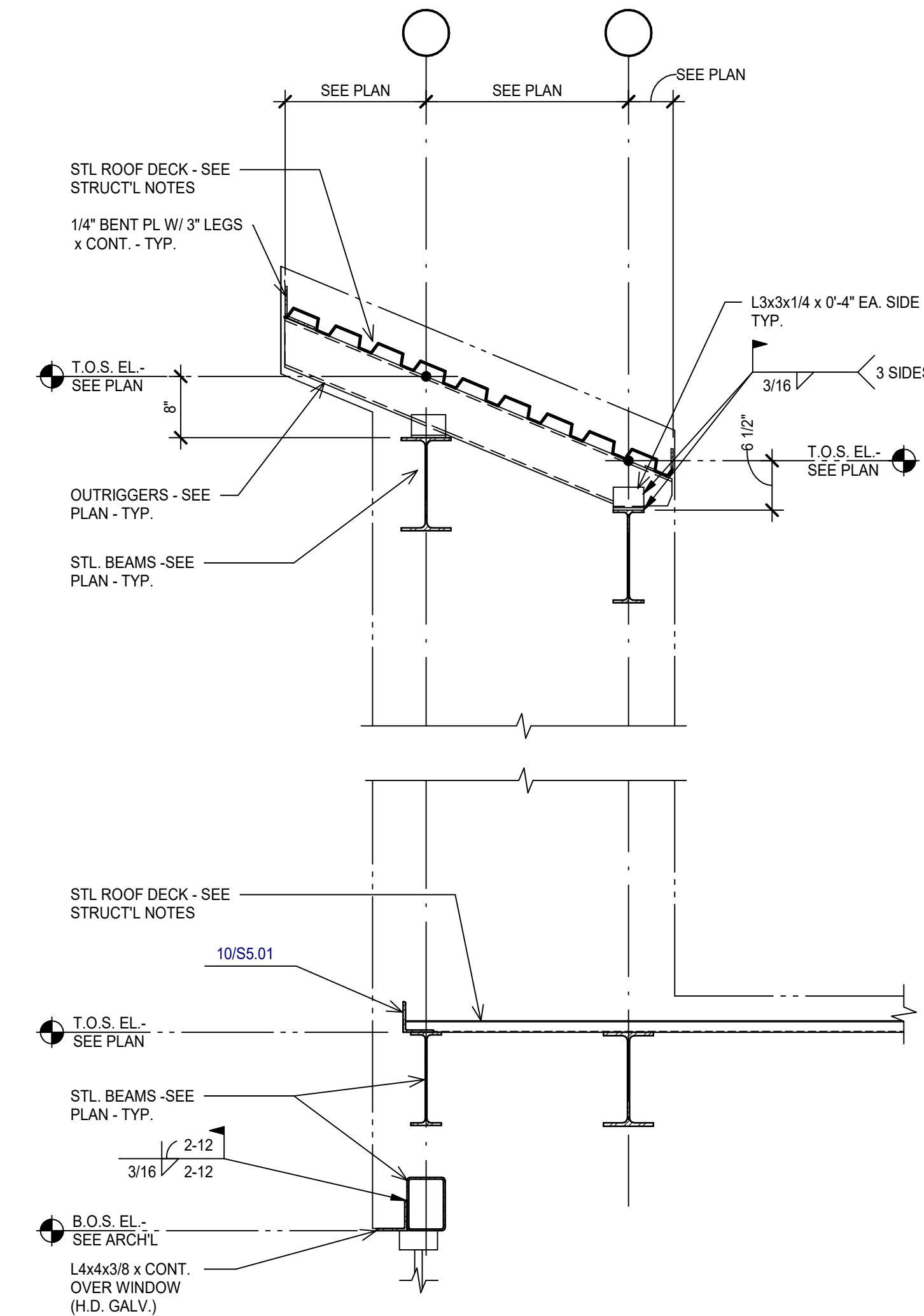
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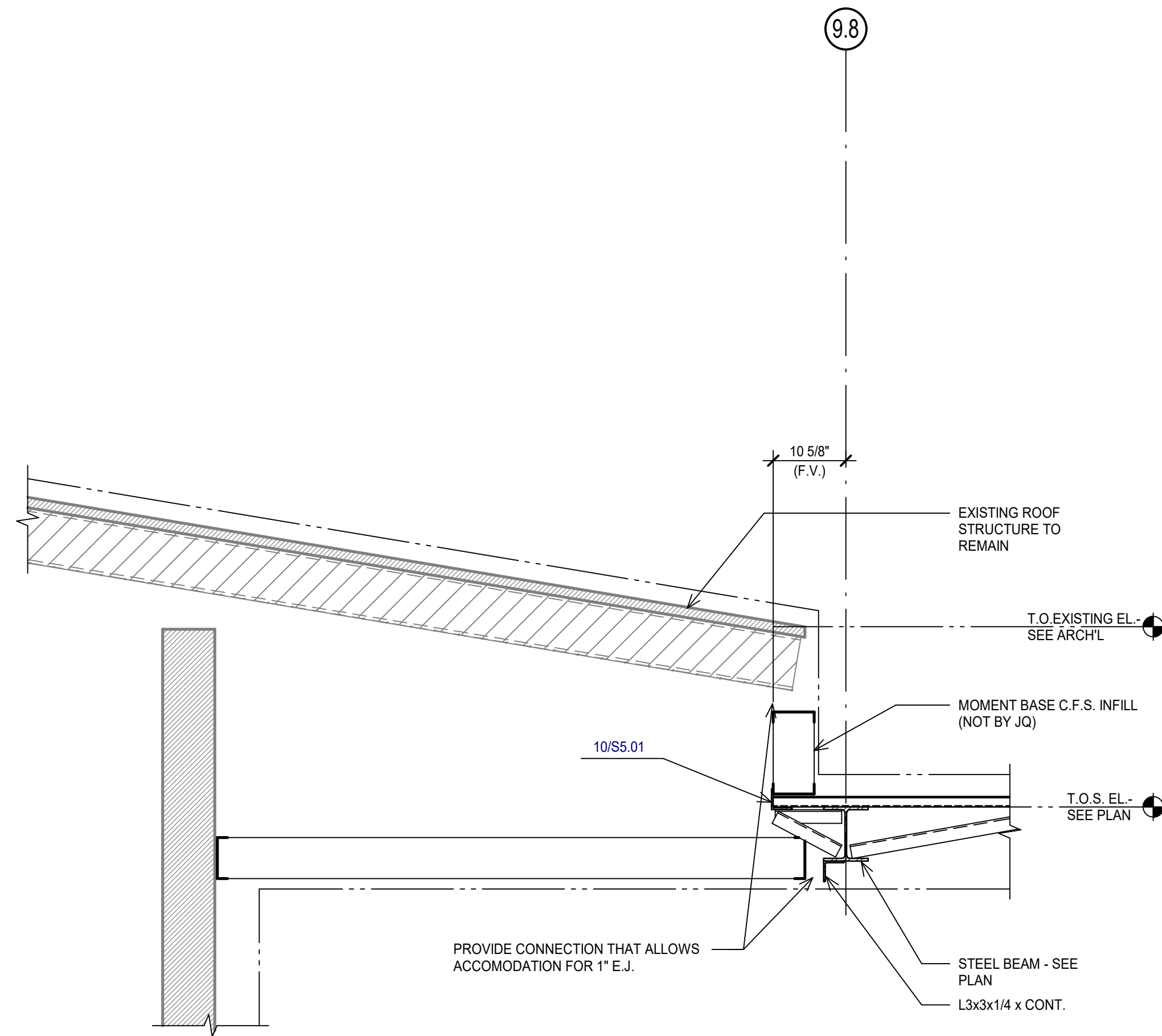
1 TYPICAL DOAS FRAME SUPPORT DETAIL
SCALE: 3/4" = 1'-0"



2 SECTION
SCALE: 3/4" = 1'-0"



3 SECTION
SCALE: 3/4" = 1'-0"



4 SECTION
SCALE: 3/4" = 1'-0"



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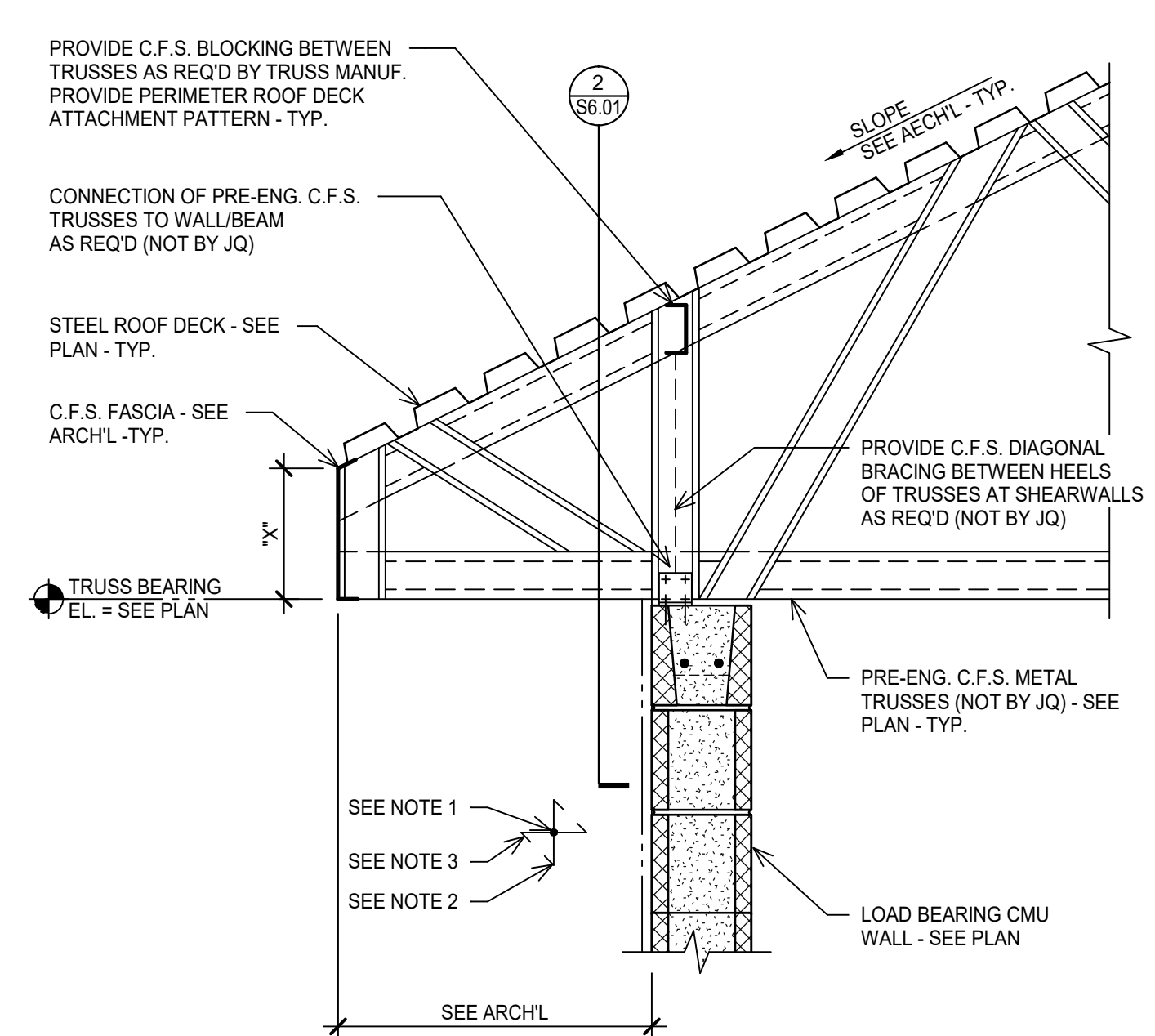
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2942

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JRP

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CRM

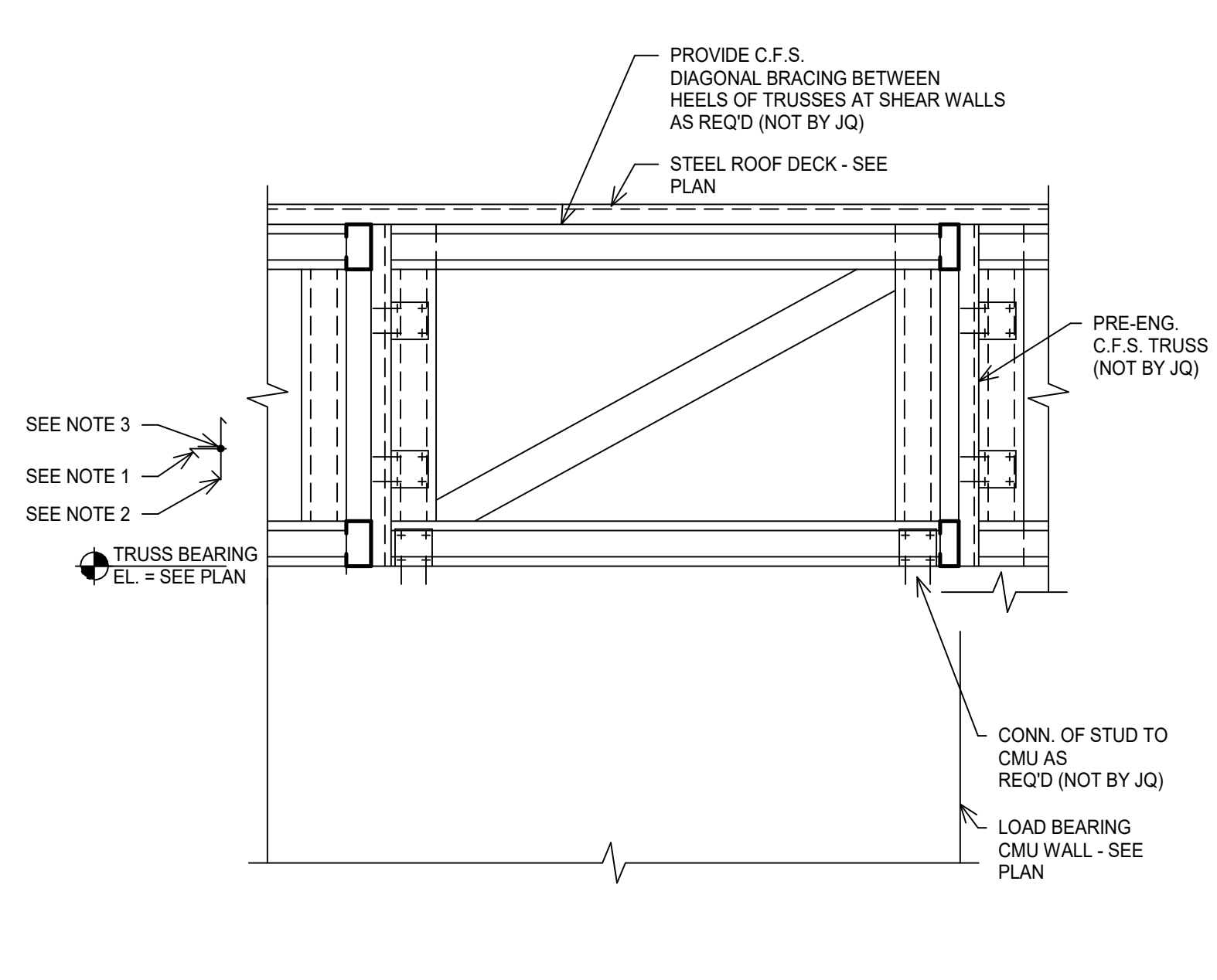
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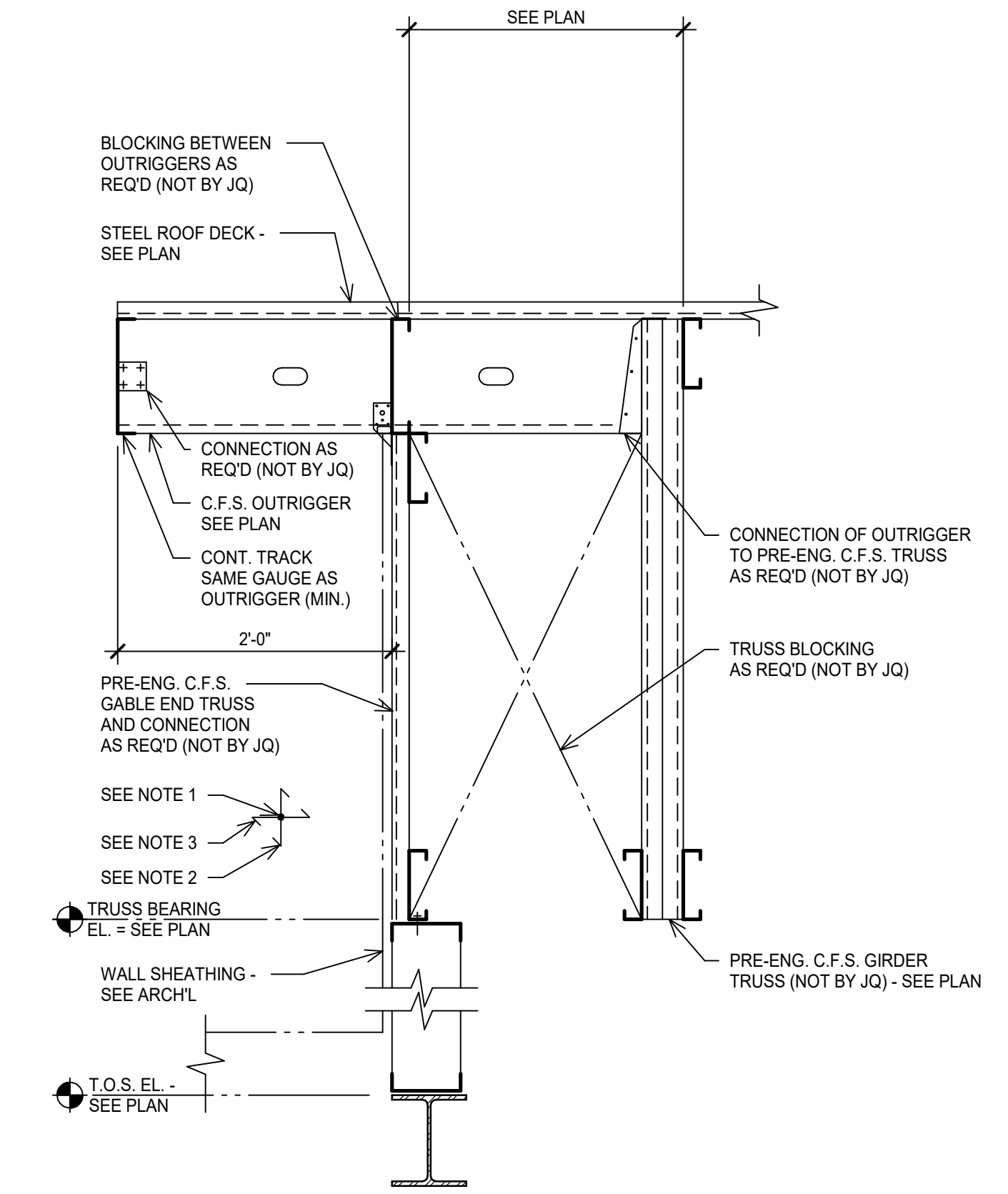


- NOTES:**
1. CONNECTIONS SHALL BE DESIGNED FOR THE UNIT SHEAR FORCE OF 350 PLF (FACTORED LRFD). PROVIDE & DESIGN ADDNL. MEMBERS AS REQ'D.
 2. CONNECTIONS SHALL BE DESIGNED FOR THE GRAVITY LOADS AND UPLIFT PRESSURES AS INDICATED ON THE STRUCTURAL NOTES.
 3. CONNECTIONS SHALL BE DESIGNED FOR THE OUT OF PLANE COMPONENTS & CLADDING WIND PRESSURES AS INDICATED ON THE STRUCTURAL NOTES.

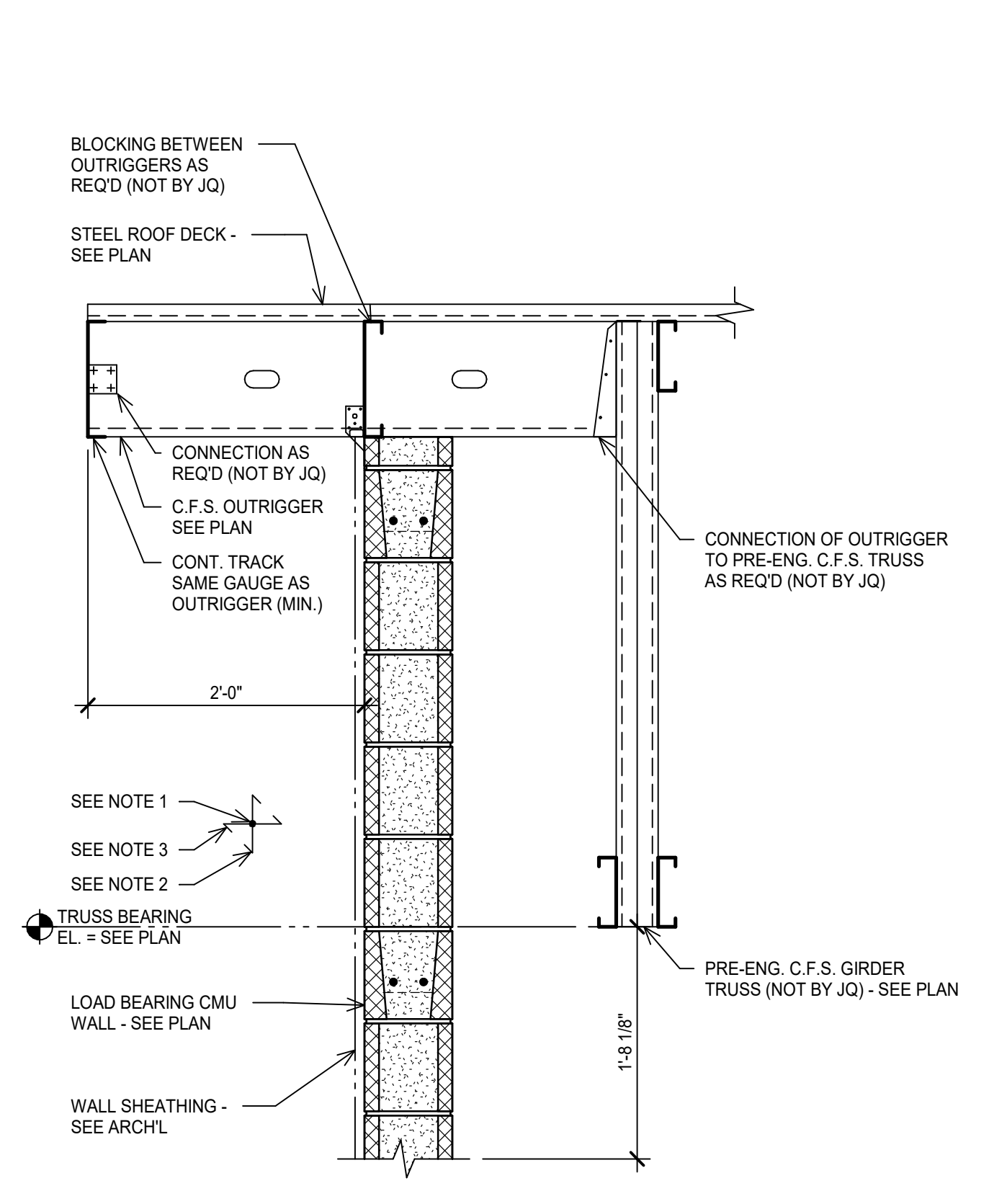
1 TYPICAL TRUSS BEARING ON LOAD BEARING C.F.S. EXTERIOR WALL DETAIL
NO SCALE



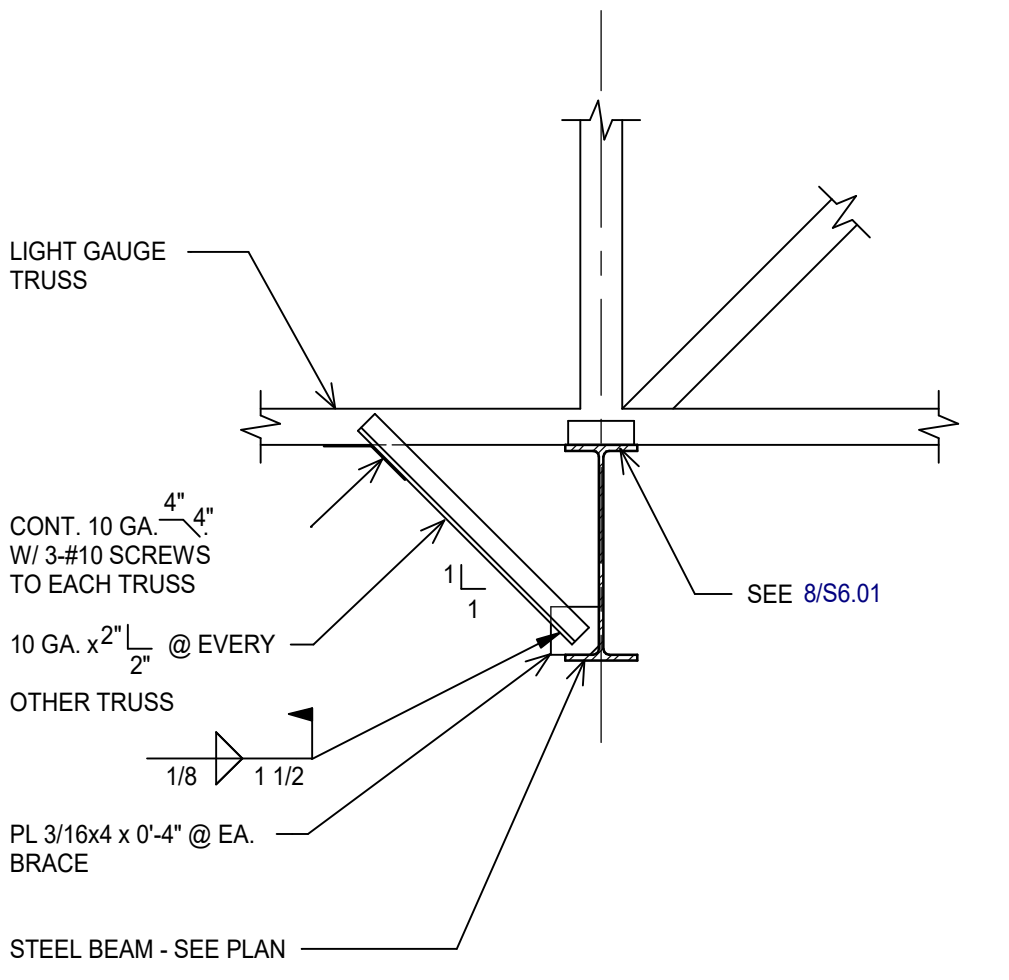
2 TYPICAL DIAGONAL BRACING BETWEEN TRUSS HEELS @ SHEAR WALLS DETAIL
NO SCALE



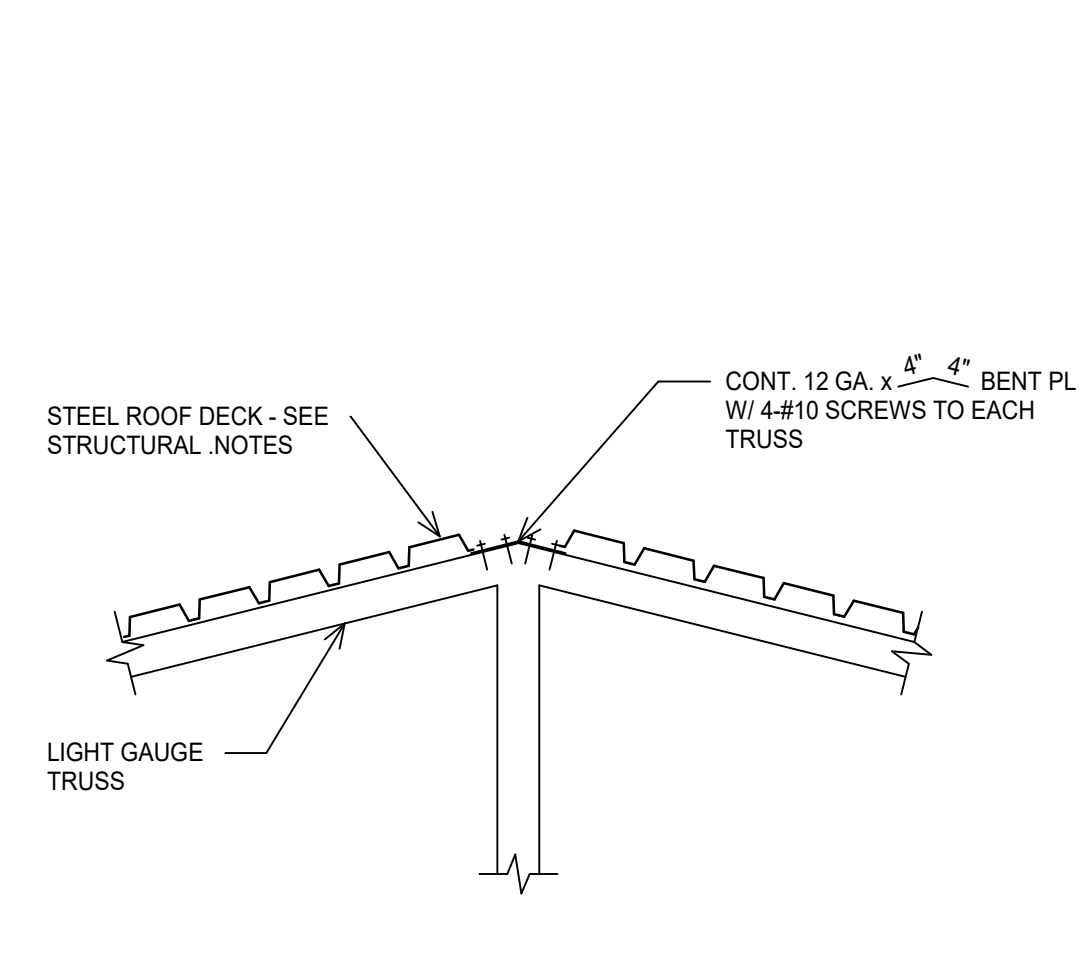
3 TYPICAL GABLE END PRE-ENGINEERED C.F.S. TRUSS WITH OUTRIGGER AT STEEL BEAM DETAIL
NO SCALE



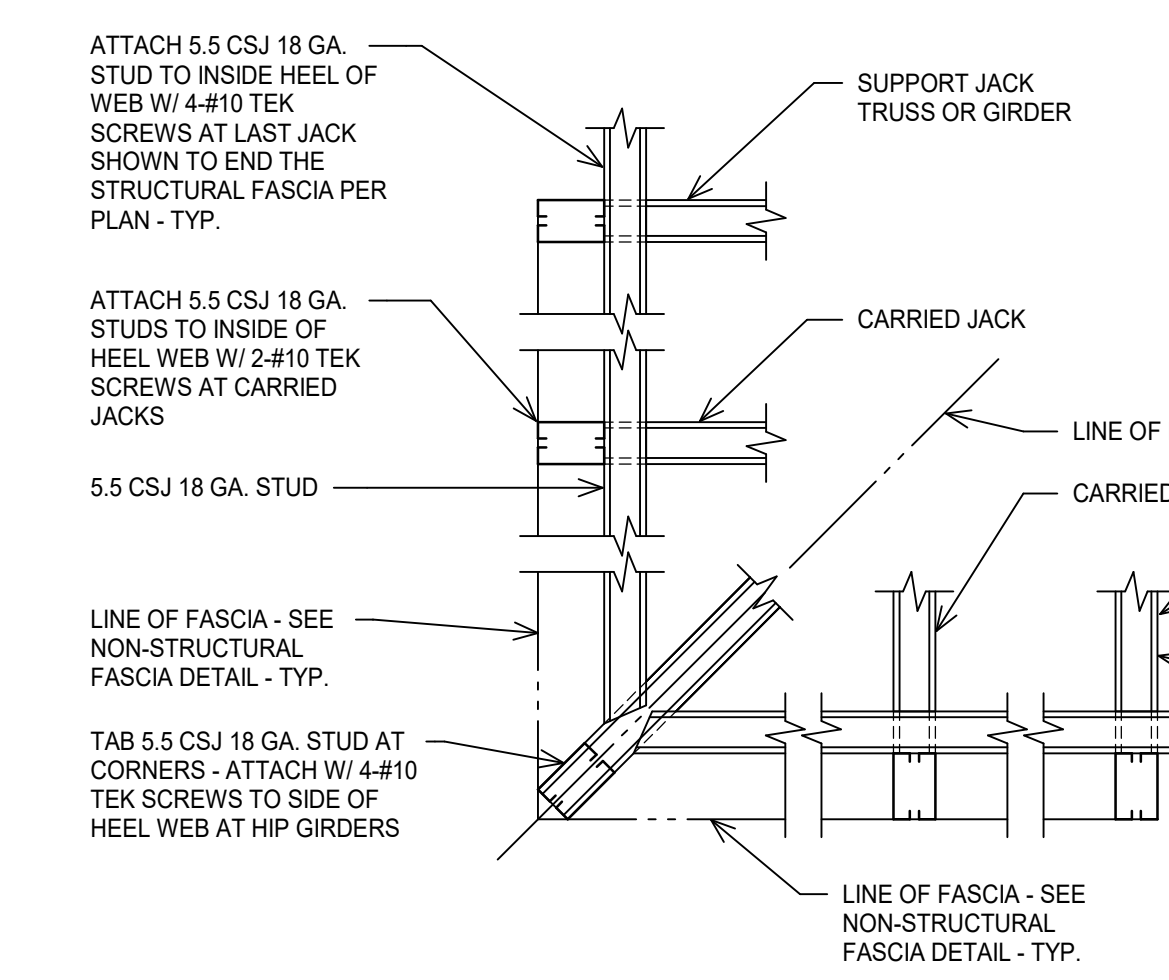
4 TYPICAL GABLE END PRE-ENGINEERED C.F.S. TRUSS WITH OUTRIGGER AT CMU WALL DETAIL
NO SCALE



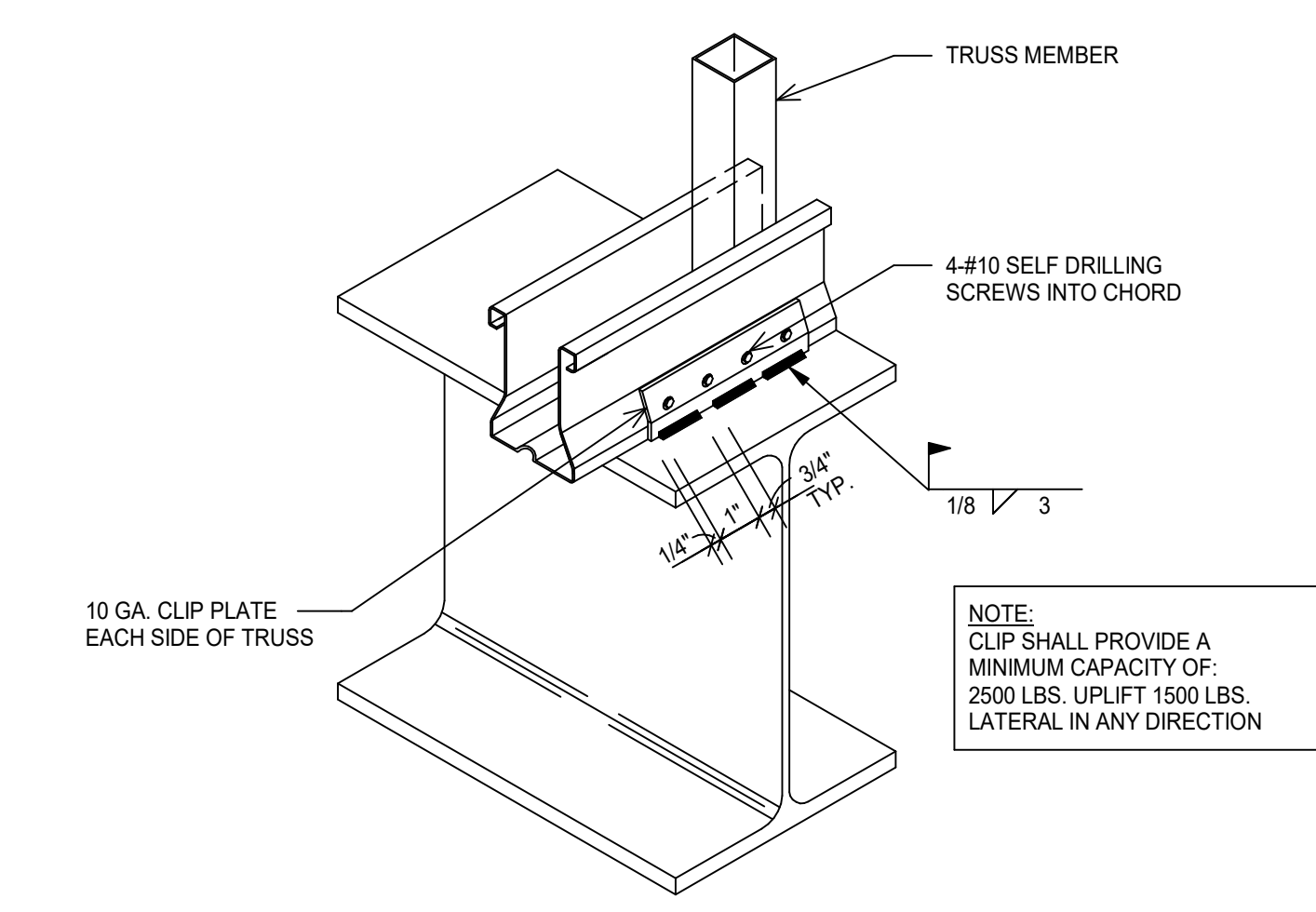
5 TYPICAL LIGHT GAUGE TRUSS PERPENDICULAR TO INTERIOR SUPPORTS
NO SCALE



6 TYPICAL LIGHT GAUGE TRUSS RIDGE AND HIP DETAIL
NO SCALE



7 TYPICAL LIGHT GAUGE TRUSS VALLEY DETAIL
NO SCALE



8 TYPICAL LIGHT GAUGE TRUSS ANCHORAGE
NO SCALE



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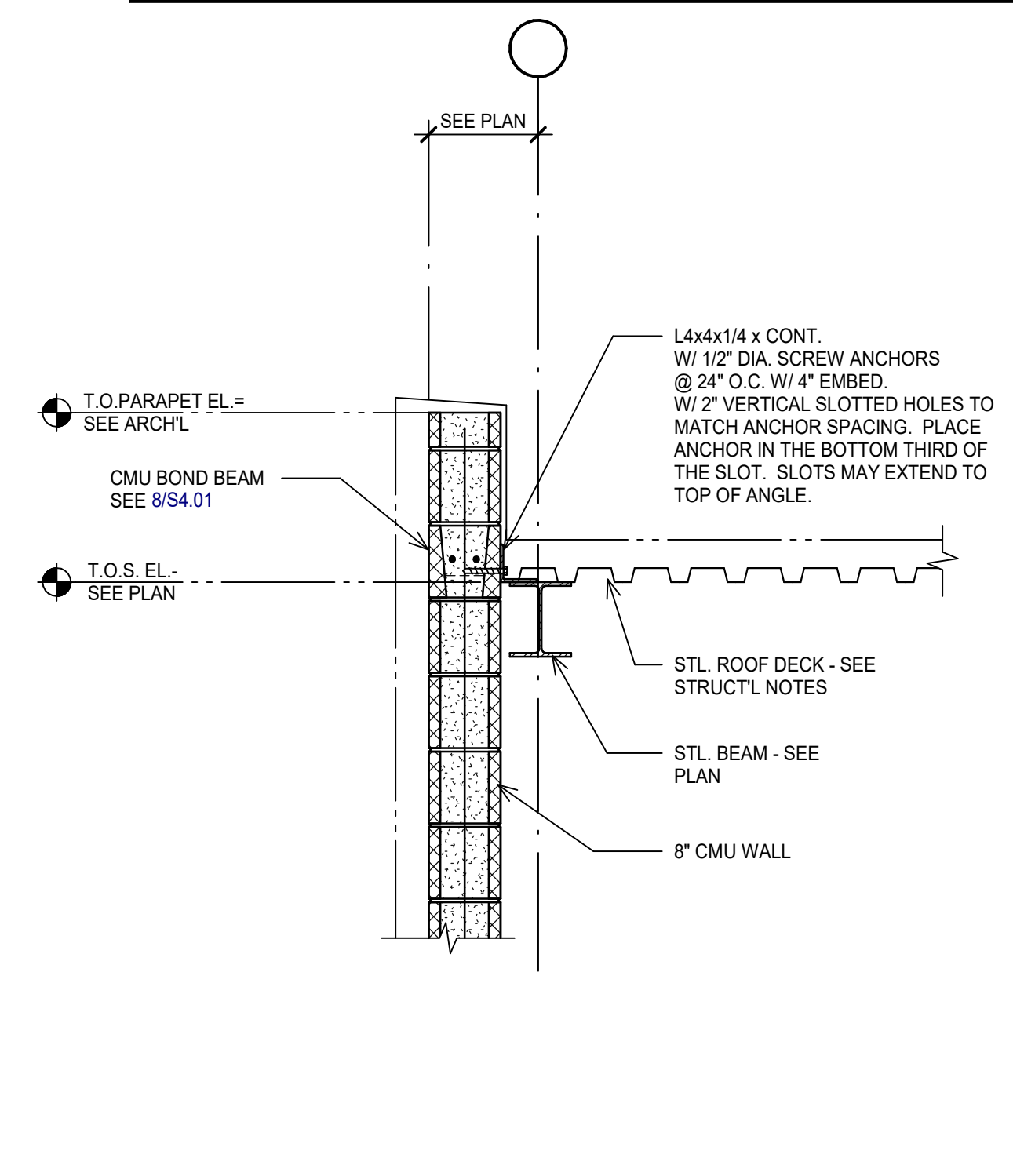
Project No.
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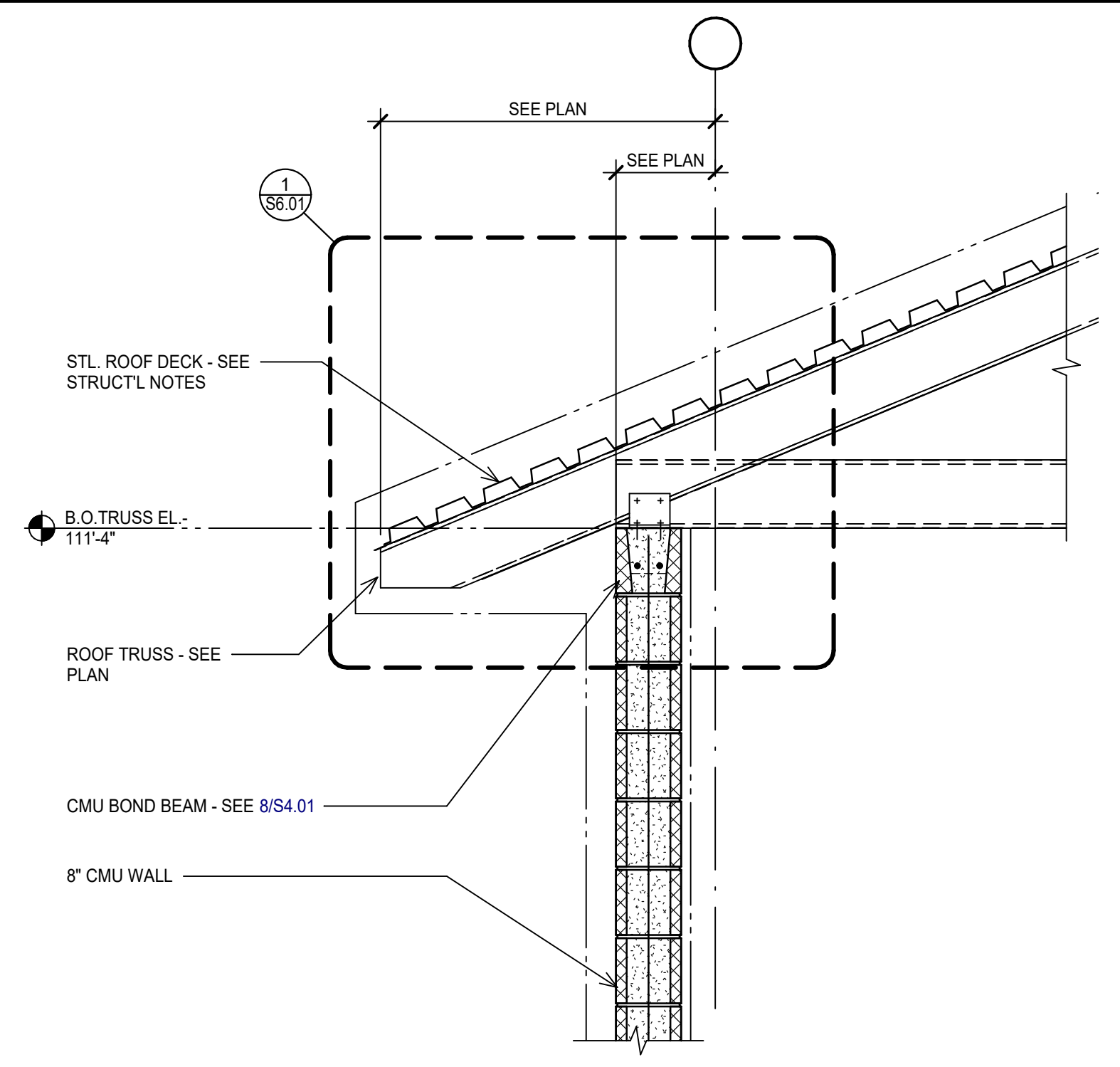
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Sheet Title:
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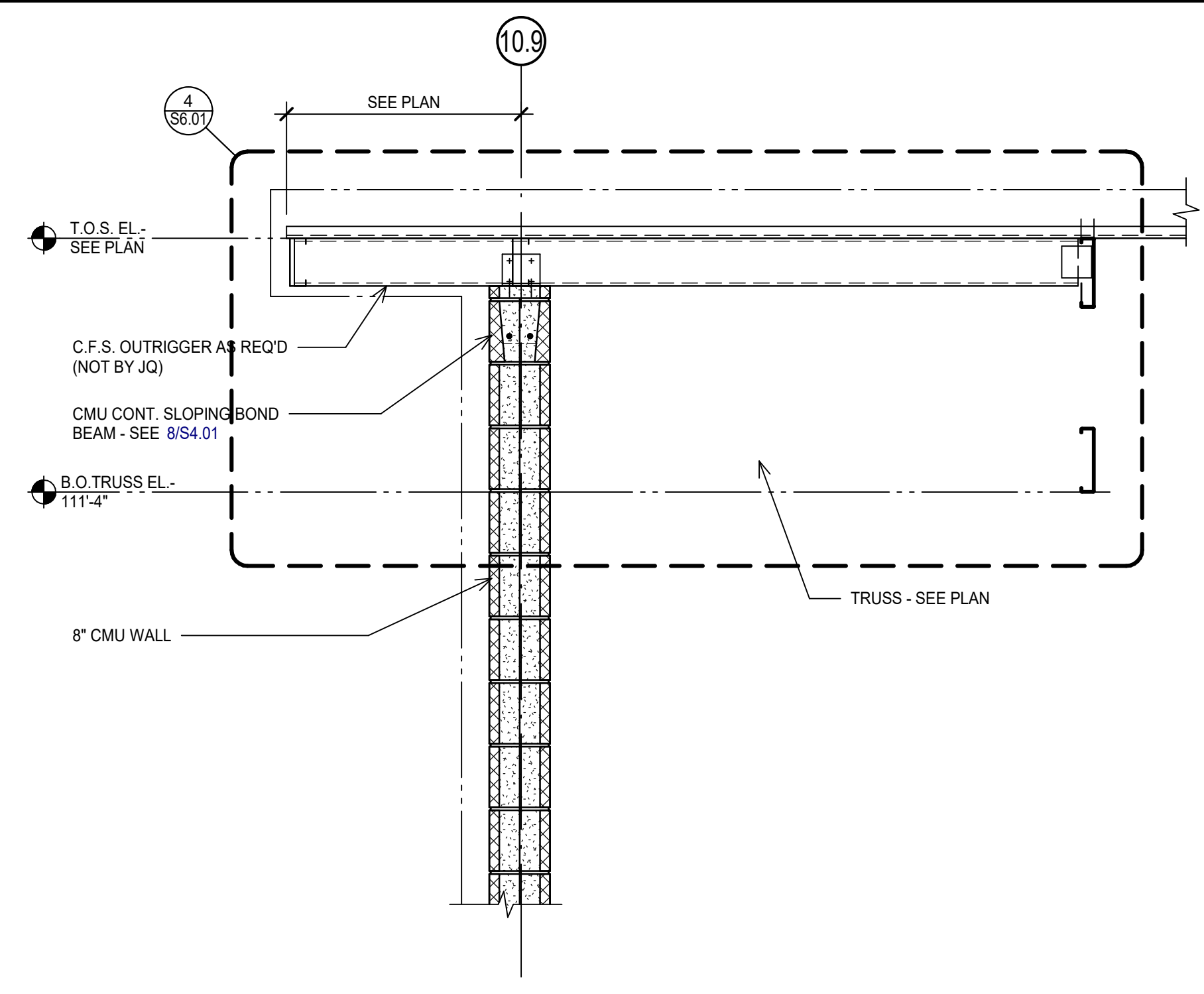
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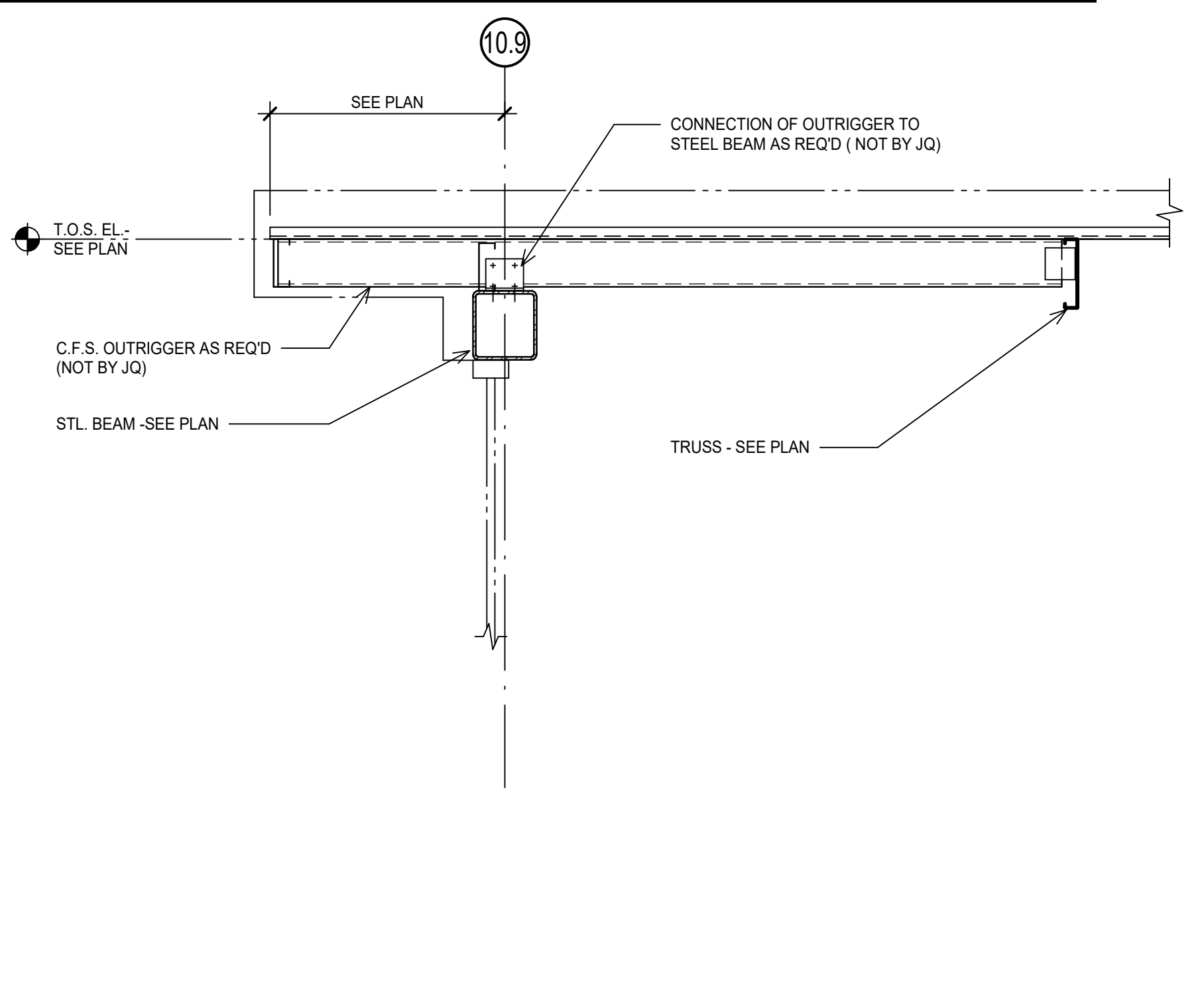
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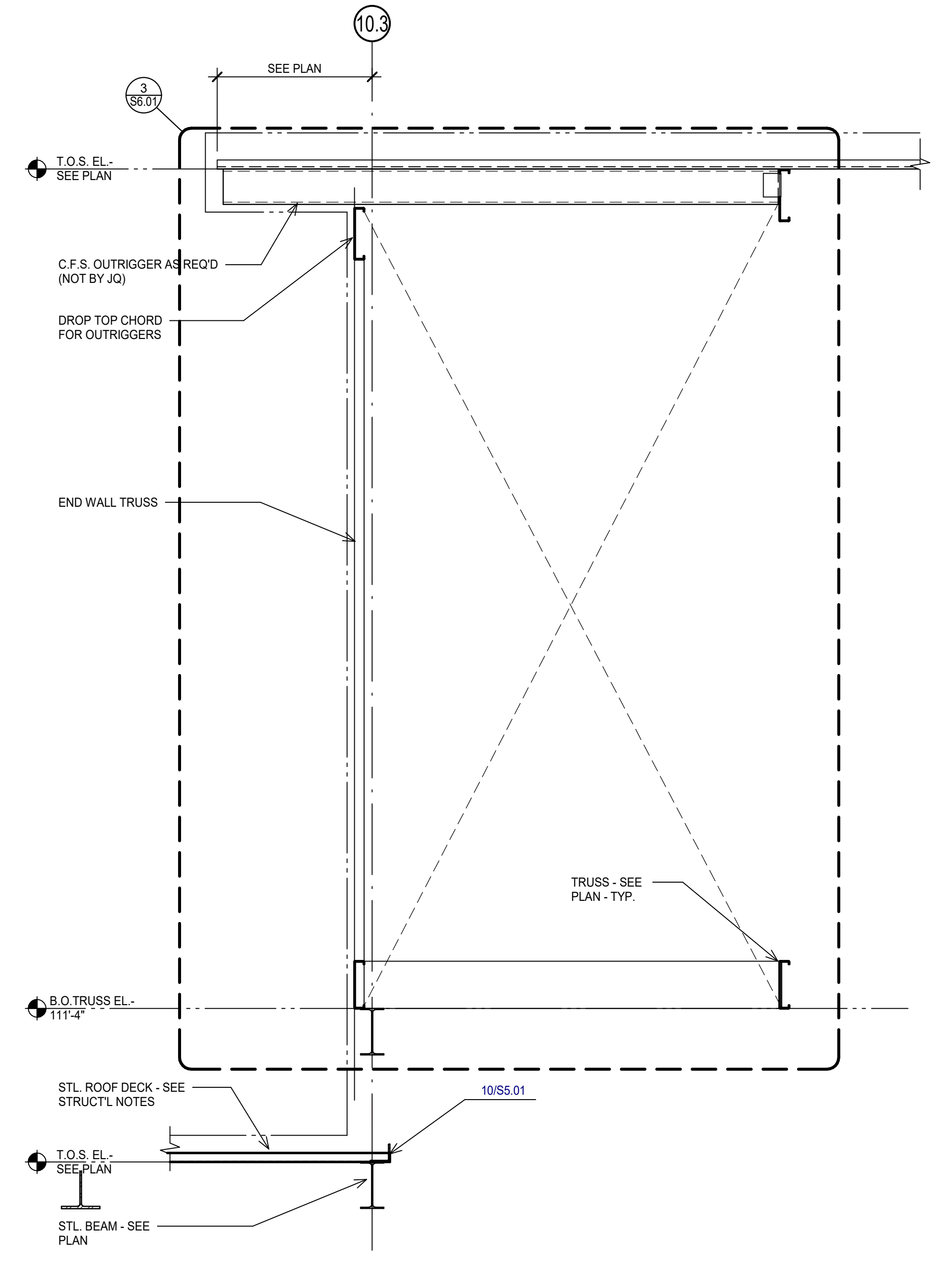
2 SECTION
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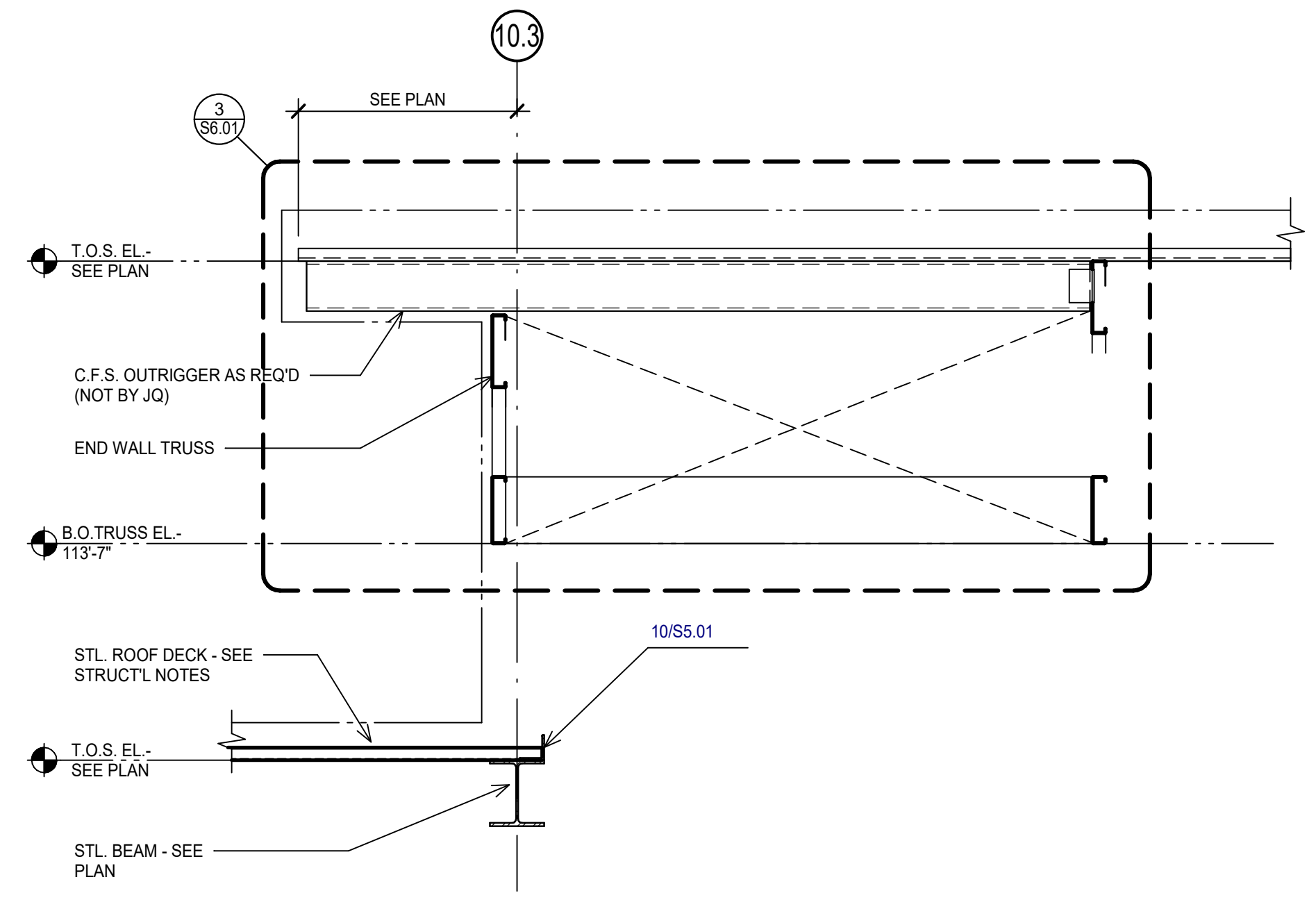
3 SECTION
SCALE: 3/4" = 1'-0"



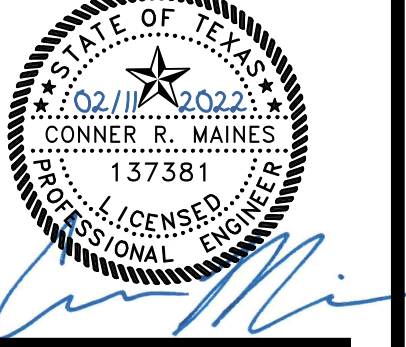
4 SECTION
SCALE: 3/4" = 1'-0"



5 SECTION
SCALE: 3/4" = 1'-0"



6 SECTION
SCALE: 3/4" = 1'-0"



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Drawn By:
JRP

Checked By:
CRM

Sheet Title:
CFS SECTIONS & DETAILS

Drawing No.



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REV.	DATE	TITLE

Date:
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02/11/2022

Project No.
MESQU.TX

Drawn By:
RAS

Checked By:
CSL

Sheet Title:
MECHANICAL SCOPE

Drawing No.

M1.10

ATTENTION: SUBMITTALS ARE REQUIRED

DO NOT PURCHASE EQUIPMENT WITHOUT APPROVED SHOP DRAWINGS AND SUBMITTALS. WE WILL NOT APPROVE PAY REQUISITIONS WITHOUT SUBMITTALS. ANY COSTS INCURRED TO CORRECT PROBLEMS THAT COULD HAVE BEEN ADVISED BY SUBMISSION OF SAID DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, EVEN IF SUCH CORRECTION IS OUTSIDE THE CONTRACTORS ORIGINAL CONTRACT RESPONSIBILITIES.

MECHANICAL SUBMITTAL REQUIREMENTS

SUBMITTAL INFORMATION SHALL BE SUBMITTED AND APPROVED BEFORE THE RELATED INSTALLATION MAY COMMENCE. ANY DEVIATION IN DESIGN DURING THE INSTALLATION PROCESS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE INSTALLING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIVE COPIES OF THE FOLLOWING DOCUMENTS FOR APPROVAL:

1. MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL REGARDLESS OF DEVIATIONS. PROVIDE SHOP DRAWINGS AND CONTROL DIAGRAMS FOR ALL SYSTEMS.
2. DUCTWORK SHOP DRAWINGS INDICATING DUCT SIZES, DUCT ELEVATIONS, DUCT LINER AND INSULATION, FLEXIBLE CONNECTIONS, DUCT SUPPORTS, EQUIPMENT LOCATION AND CLEARANCES, AND TEMPERATURE SENSORS LOCATIONS.
3. EQUIPMENT DATA INCLUSIVE OF SPECIFICATION, INSTALLATION, AND MAINTENANCE CATALOGS FROM THE MANUFACTURER, AS WELL AS FITTINGS AND FIXTURES.
4. CONTROL INFORMATION DETAILING EACH SYSTEM COMPONENT INTERCONNECTION AND A WRITTEN SEQUENCE OF OPERATIONS.

MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL REGARDLESS OF DEVIATIONS. PROVIDE SHOP DRAWINGS AND CONTROL DIAGRAMS FOR ALL SYSTEMS.

GENERAL CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO FIELD VERIFY COORDINATION OF DUCTWORK, LIGHTING, SPRINKLER HEADS, CEILING TILES, AND STRUCTURAL OBSTRUCTIONS. SUBMIT COORDINATED REFLECTED CEILING PLANS FOR APPROVAL PRIOR TO INSTALLATION. SCHEDULING, SEQUENCE OF INSTALLATION, EQUIPMENT CHANGES, CONTRACTOR PREFERENCES, AND ACCUMULATION OF VARIATIONS IN MEASUREMENT AND INSTALLATION ALL CONTRIBUTE TO CONFLICTS IN CONSTRUCTION.

DESIGN LEARNED, INC. WILL INSPECT INSTALLATION DURING AND AFTER CONSTRUCTION TO ENSURE CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS. GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT ALL SUB-CONTRACTORS ADHERE TO ALL DRAWINGS, SPECIFICATIONS, AND ADDENDA EXACTLY.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COST OF REWORK ASSOCIATED WITH ANY UNAPPROVED DEVIATIONS TO DESIGN. MANY ASPECTS OF OUR DESIGNS FIT CLOSELY. BE ESPECIALLY CAUTIOUS OF ELECTRICAL CONDUIT, PLUMBING PIPING, AND SPRINKLER LINES. THESE FREQUENTLY AND INAPPROPRIATELY ARE ROUTED IN THE FIELD THROUGH SPACES THAT HAVE BEEN RESERVED FOR DUCTWORK.

APPLICABLE CODES

BUILDING CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM
ADOPTS WITH AMENDMENTS: INTERNATIONAL BUILDING CODE 2015

EXISTING BUILDING CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM
ADOPTS WITH AMENDMENTS: INTERNATIONAL EXISTING BUILDING CODE 2015

PLUMBING CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM
ADOPTS WITH AMENDMENTS: INTERNATIONAL PLUMBING CODE 2015

MECHANICAL CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM
ADOPTS WITH AMENDMENTS: INTERNATIONAL MECHANICAL CODE 2015

ENERGY CONSERVATION CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM
ADOPTS WITH AMENDMENTS: INTERNATIONAL ENERGY CONSERVATION CODE 2015

NATIONAL ELECTRIC CODE 2020 OF TEXAS
ADOPTS WITH AMENDMENTS: NFPA 70, 2020

DESIGN BASIS

MECHANICAL LOAD CALCULATIONS BASED ON 2021 ASHRAE FUNDAMENTALS HANDBOOK CLIMATE DATA FOR DALLAS LOVE FIELD

CLIMATE ZONE (PER 2018 IECC, TABLE C301.1):

3A

CLIMATE DATA (PER 2021 ASHRAE FUNDAMENTALS HANDBOOK):

COOLING DB (0.4%):	101.6°F
COOLING MCWB (0.4%):	74.7°F
HEATING DB (99.6%):	24.7°F

DESIGN CONDITIONS:
COOLING DB SETPOINT: 75°F
HEATING DB SETPOINT: 70°F
RELATIVE HUMIDITY: 50% RH

SPECIFICATIONS

SPECIFICATIONS ARE PROVIDED IN A SIZE FORMAT AND ARE PART OF THIS CONSTRUCTION DRAWING SET. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO READ AND UNDERSTAND ALL SPECIFICATIONS BEFORE BIDDING AND BEFORE BEGINNING WORK. CONTRACTORS WILL BE HELD TO THE SPECIFICATIONS AND DRAWINGS. WE WILL NOT APPROVE ANY CHANGES, REWORK, SUBSTITUTIONS, OR OMISSIONS DUE TO THE CONTRACTOR'S FAILURE TO FOLLOW THE SPECIFICATIONS.

REFER TO THE FOLLOWING SPECIFICATION SECTIONS FROM DIVISION 23 - HEATING, VENTILATING, AND AIR-CONDITIONING (HVAC):

23 0529	HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT
23 0548	VIBRATION AND SEISMIC CONTROLS FOR HVAC
23 0553	IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT
23 0593	TESTING, ADJUSTING, AND BALANCING FOR HVAC
23 0713	DUCT INSULATION
23 0800	COMMISSIONING OF HVAC
23 0913	INSTRUMENTATION AND CONTROL DEVICES FOR HVAC
23 0993	SEQUENCE OF OPERATIONS FOR HVAC CONTROLS
23 3100	HVAC DUCTS AND CASINGS
23 3300	AIR DUCT ACCESSORIES
23 3700	AIR OUTLETS AND INLETS
23 4000	HVAC AIR CLEANING DEVICES
23 7433	DEDICATED OUTDOOR AIR UNITS

MECHANICAL SCOPE OF WORK

GENERAL:
THESE DRAWINGS REPRESENT THE MECHANICAL HVAC WORK FOR THE MESQUITE ANIMAL SHELTER & ADOPTION CENTER, IN MESQUITE, TX. THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS, PRIOR TO BIDDING AND COMMENCING WORK. ALL QUESTIONS AND/OR DEVIATIONS FROM THIS DESIGN SHALL BE SUBMITTED IN WRITINGS TO THE ENGINEER (DESIGN LEARNED, INC.) FOR APPROVAL. THE TERM 'PROVIDE' SHALL MEAN TO FURNISH AND INSTALL COMPLETELY. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SPECIFIED WITHIN THIS DRAWING SET. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY EQUIPMENT, MATERIAL, ACCESSORY, AND/OR HARDWARE REQUIRED TO COMPLETE A FULLY OPERATIONAL SYSTEM. SUBMITTAL INFORMATION, AS OUTLINED BELOW AND IN THE SPECIFICATIONS, SHALL BE SUBMITTED AND APPROVED BY THE ENGINEER BEFORE THE RELATED INSTALLATION MAY COMMENCE. ANY DEVIATION IN DESIGN DURING THE INSTALLATION PROCESS SHALL BE IMMEDIATELY PRESENTED TO THE ENGINEER FOR REVIEW, AND SHALL BE PERFORMED BY THE CONTRACTOR ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR IS SOLELY RESPONSIBLE TO FIELD VERIFY COORDINATION OF DUCTWORK, LIGHTING, SPRINKLER HEADS, CEILING TILES, AND STRUCTURAL OBSTRUCTIONS. IN THE EVENT THAT OBSTRUCTIONS EXIST AND REQUIRE MODIFICATION OF THIS DESIGN LAYOUT, THE CONTRACTOR SHALL SUBMIT COORDINATED REFLECTED CEILING PLANS TO THE ENGINEER FOR REVIEW. CONTRACTOR SHALL PROCEED WITH MODIFICATION OF THE DESIGN LAYOUT ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER.

INTERIOR DESIGN CONDITIONS ARE 70 DEGREES F IN WINTER, 75 DEGREES F IN SUMMER AND 50% RELATIVE HUMIDITY. THE CONTRACTOR SHALL VERIFY WHETHER FIREWALL PENETRATIONS WILL BE REQUIRED, AND IF SO, FIRE-RATED DAMPERS SHALL BE INSTALLED, AS REQUIRED BY CODE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL PERMIT FEES, AND FOR COMPLIANCE WITH OFFICIAL LOCAL BUILDING REQUIREMENTS. DURING CONSTRUCTION, THE CONTRACTOR MAY CONTACT THE ENGINEER, DESIGN LEARNED, INC., AT (860) 889-7078.

EQUIPMENT:
THE HVAC EQUIPMENT SHALL BE AS SPECIFIED IN THE MECHANICAL EQUIPMENT SCHEDULE AND SHALL CONSIST OF THREE DEDICATED OUTDOOR AIR SYSTEMS (WITH BUILT-IN ENERGY RECOVERY, EXHAUST SYSTEMS, RETURN AIR SYSTEMS, AND MODULATING HOT GAS REHEAT). DEHUMIDIFICATION SHALL BE HANDLED BY THE DEDICATED OUTDOOR AIR SYSTEMS. ALL DEDICATED OUTDOOR AIR SYSTEMS SHALL BE SUPPLIED WITH FRESH AIR IN ORDER TO PROVIDE THE APPROPRIATE AMOUNT OF VENTILATION TO EACH ZONE IN PROPORTION TO THE AMOUNT OF ENVIRONMENTAL AIR BEING EXHAUSTED FROM EACH ZONE. EACH ZONE SHALL BE EQUIPPED WITH APPROPRIATE CONTROLS FOR TEMPERATURE AND HUMIDITY PROGRAMMING. INSTALL PER MANUFACTURERS' INSTALLATION INSTRUCTIONS AND VERIFY ANY ENVELOPE PENETRATION LOCATIONS ON-SITE.

PROJECT ADDITIONALLY INCLUDES THE RELOCATION OF AN EXISTING DOAS UNIT FROM THE GROUND TO A ROOF AREA. CONTRACTOR TO RELOCATE EQUIPMENT WITH NEW ROOF CURB, DUCT CONNECTIONS, PENETRATIONS THROUGH THE ROOF, AND RECONNECTION TO THE DUCT SYSTEM SERVING THE EXISTING SHELTER. DUCTWORK SHOWN IS BASED ON RECORD DOCUMENTS AND FIELD CONDITIONS MAY VARY. CONTRACTOR TO CARRY ALLOWANCE FOR MODIFICATIONS TO PROVIDE A COMPLETE, OPERATING DOAS SYSTEM. CONTRACTOR TO VISIT THE SITE AND OBSERVE THESE CONDITIONS BEFORE BIDDING.

AIR DISTRIBUTION AND DUCT WORK:
SUPPLY REGISTERS AND RETURN GRILLES SHALL BE MANUFACTURED BY METALAIR AS SPECIFIED IN THE AIR TERMINAL SCHEDULE ON M1.40. ALL DUCTWORK SHALL BE LOCATED AND ROUTED AS INDICATED ON THE DRAWINGS. ALL DUCTWORK SHALL BE SUPPORTED EVERY 8 FEET (MINIMUM).

CONTRACTOR SHALL SUBMIT ANY SUBSTITUTIONS PERTAINING TO DUCTWORK AND INSULATION TO THE ENGINEER IN WRITING, AND SHALL PROCEED ONLY WITH THE EXPRESS WRITTEN APPROVAL OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE AND INSTALL EACH TAKE OFF (DUCT BRANCH LINE) WITH A VOLUME CONTROL DAMPER, REGARDLESS IF THEY ARE INDICATED ON THE PLANS OR NOT. INTEGRAL DIFFUSER AND GRILLE DAMPERS WILL NOT BE ACCEPTED AS CONTROL DAMPERS.

FINALLY, WE EXPECT EXCEPTIONAL INSTALLATION QUALITY. ALL DUCTWORK SHOULD BE NEAT, CLEAN, LEVEL, PLUMB, AND ATTRACTIVE. DUCT CONNECTIONS TO MOTORIZED EQUIPMENT WILL INCLUDE CANVAS TRANSITIONS. INSTALLATIONS WILL BE IMPRESSIVE AND FREE FROM MAINTENANCE OBSTRUCTIONS. GAS AND CONDENSATE PIPING SHALL BE NEATLY AND CAREFULLY INSTALLED, AND FULLY INSULATED (WHERE REQUIRED) BY CODE AND WITHIN THE SPECIFICATIONS). ALL DUCTWORK SHALL BE TAPED AND SEALED PER THE ENERGY CONSERVATION CODE OF THE TEXAS INDUSTRIALIZED HOUSING AND BUILDINGS PROGRAM, ASHRAE 90.1-2013, AND LOCAL AMENDMENTS.

CONTROLS:
APPROPRIATE CONTROLS SHALL BE PROVIDED FOR EACH ZONE THAT IS CAPABLE OF MEETING THE SEQUENCE OF OPERATIONS IDENTIFIED ON THESE DOCUMENTS. DEHUMIDIFICATION CONTROLS SHALL BE INCLUDED AS APPLICABLE AND SHALL BE SET TO TRIGGER ABOVE 50% RH IN THE SPACE. EACH DEDICATED OUTDOOR AIR SYSTEM SHALL BE PROVIDED WITH A PRE-PROGRAMMED THERMOSTAT. THE AMOUNT OF FRESH AIR BEING DRAWN INTO THE SPACE SHALL BE PROPORTIONAL TO THE VOLUME OF AIR BEING EXHAUSTED FROM EACH ZONE. BALANCING OF THE FRESH AIR AND EXHAUST AIR FROM EACH ZONE WILL BE CRITICAL AND WILL BE ACCOMPLISHED BY ADJUSTMENT OF VOLUME CONTROL DAMPERS FOR EACH SPACE ZONE SERVED.

MECHANICAL CONTRACTOR MUST PROVIDE SUBMITTALS AND CUT SHEETS FOR ALL SYSTEM CONTROLS OR COMPONENTS PRIOR TO PURCHASE AND INSTALLATION. THE MECHANICAL CONTRACTOR ASSUMES LIABILITY FOR ANY CONTROLS THAT ARE FOUND TO BE INCOMPATIBLE WITH THE EQUIPMENT SPECIFIED OR INCAPABLE OF PERFORMING THE SEQUENCE OF OPERATIONS AS SPECIFIED ON THESE DOCUMENTS. MECHANICAL CONTRACTOR MUST CORRECT ALL NON-APPROVED CHANGES TO THE MECHANICAL SYSTEM CONTROLS AT NO ADDITIONAL COST TO THE CLIENT OR DESIGNER.

AIR TREATMENT (MECHANICAL AND ELECTRONIC FILTRATION):
ALL MECHANICAL UNITS SHALL BE SUPPLIED WITH MEDIUM EFFICIENCY, MERV 8, CHARCOAL-IMPREGNATED, 2 INCH PLEATED-MEDIA FILTERS (AIRGUARD FRESH AIR SUPREME OR APPROVED EQUAL). ALL AIR HANDLING UNITS SHALL BE PROVIDED WITH AERAPY UV TREATMENT SYSTEMS, AS SPECIFIED IN THE POWERED FILTRATION SCHEDULE SHOWN ON M1.40.

SEQUENCE OF OPERATION:
SEE M2.20 FOR THE SEQUENCE OF OPERATION FOR THE DEDICATED OUTDOOR AIR SYSTEMS.

MECHANICAL CONTRACTOR IS TO PROVIDE AND INSTALL ALL NECESSARY HVAC WIRING AND CONTROLS.

ALL MECHANICAL EQUIPMENT IS TO BE RESILIENTLY MOUNTED.

FIRE STOP SYSTEM NOTES

SEAL ALL PENETRATIONS THROUGH FIRE-RATED WALLS WITH APPROVED FIRESTOPPING CAULK. CONTRACTOR SHALL PROVIDE AND INSTALL AT ALL WALL AND FLOOR PENETRATIONS A PERMANENT FIRE STOP SYSTEM. THE PENETRATION SEAL MATERIAL MUST BE UNAFFECTED BY MOISTURE AND MUST MAINTAIN THE INTEGRITY OF THE FLOOR OR WALL ASSEMBLY FOR ITS RATED TIME PERIOD.

DUCT SMOKE DETECTORS

2015 IMC, SECTION 606.2.1 STATES THAT "SMOKE DETECTORS SHALL BE INSTALLED IN RETURN AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM, IN THE RETURN AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES."

STRUCTURAL SUPPORT

SUPPORT MECHANICAL DUCTWORK AND PIPING DIRECTLY FROM STRUCTURE ABOVE. DO NOT SUPPORT CONDUIT OR PIPING FROM EXISTING DUCTWORK NOR SUPPORT DUCTWORK FROM EXISTING PIPING OR CONDUIT. DO NOT DRILL STRUCTURAL MEMBERS. USE BEAM CLAMPS OR OTHER APPROVED STRUCTURAL ATTACHMENTS DEVICES. CLAMPS AND HANGERS SHALL ATTACH TO BOTH SIDES OF BEAM TO PREVENT MOMENTS AND TWISTING. WHERE DIRECT ACCESS TO STRUCTURAL MEMBERS IS NOT POSSIBLE PROVIDE INTERMEDIATE UNISTRUT TRAPEZE HANGERS FOR SPAN OF OBSTRUCTION.

GENERAL DUCTWORK

ALL CONCEALED DUCTWORK SHALL BE GALVANIZED STEEL UNLESS OTHERWISE INDICATED. GALVANIZED STEEL FOR DUCTS: HOT-DIPPED GALVANIZED STEEL SHEET, ASTM A653/A653M F5 TYPE B, WITH G602180 COATING. SUBMIT FIELD SKETCH OF CONCEALED DUCTWORK AND REGISTER SUBSTITUTIONS FOR APPROVAL PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. COORDINATE ANY FINISH OR PAINT ON SITE WITH ARCHITECT AND OWNER.

EXPOSED DUCTWORK

ALL EXPOSED DUCTWORK SHALL BE LINDAB SPIRAL ROUND, USE DIAMETER EQUIVALENT TO THE RECTANGULAR DUCTWORK SHOWN. LINEAR REGISTERS SHALL BE REPLACED WITH SPIRO-COMFORT REGISTERS. SUBMIT FIELD SKETCH OF EXPOSED DUCTWORK AND REGISTER SUBSTITUTIONS FOR APPROVAL PRIOR TO PURCHASE, FABRICATION, OR INSTALLATION. COORDINATE ANY FINISH OR PAINT ON SITE WITH ARCHITECT AND OWNER.

DUCT INSULATION

BASED ON 2015 IECC SECTION C403.2.9, FOR 3A CLIMATE ZONE, THE SUPPLY DUCT IN THE UNCONDITIONED INTERIOR SPACES SHALL REQUIRE R-8 INSULATION AND THE SUPPLY AND RETURN DUCT LOCATED OUTSIDE THE BUILDING SHALL REQUIRE R-8 INSULATION.

ALL DUCT WHICH OCCUPIES CONDITIONED INTERIOR SPACE SHALL NOT REQUIRE INSULATION.

ALL SUPPLY DUCT WHICH OCCUPIES UNCONDITIONED INTERIOR SPACE SHALL BE INSULATED WITH CLOSED CELL, MEDIUM DENSITY SPRAY POLYURETHANE FOAM AS PER DIVISION 23 SPECIFICATION SECTION 230713.

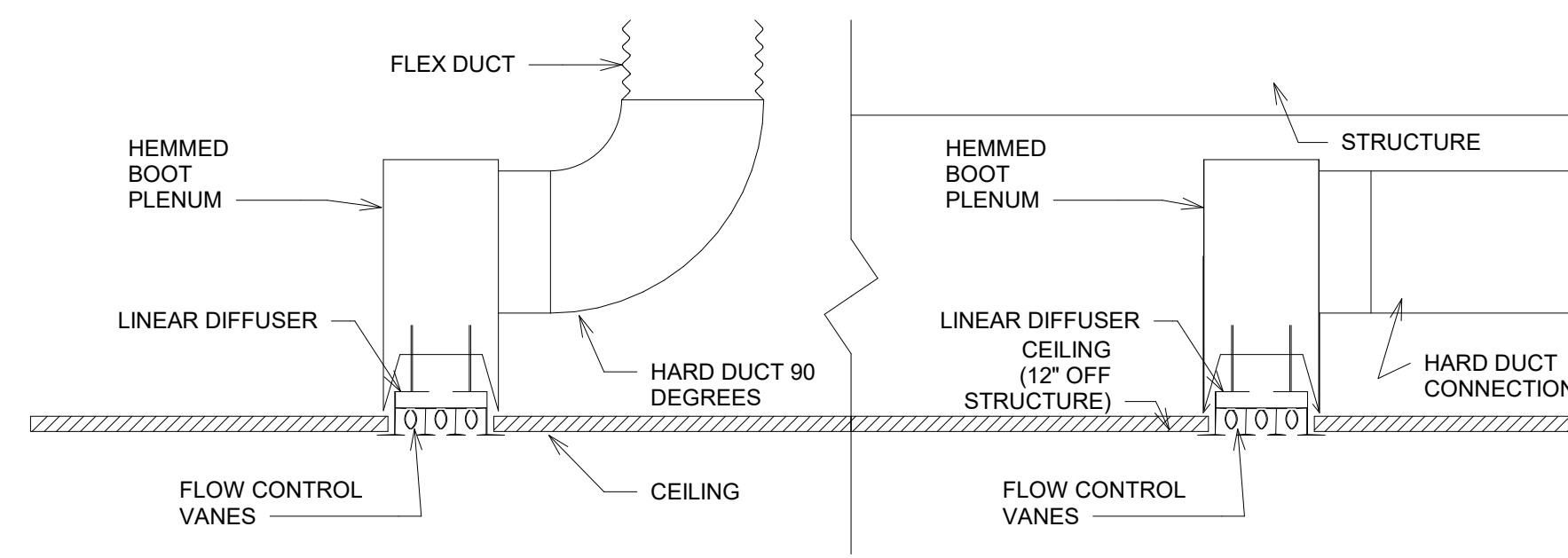
ALL DUCT WHICH OCCUPIES EXTERIOR SPACE SHALL BE INSULATED WITH GLASS FIBER, FLEXIBLE WRAP WITH A WEATHERPROOF JACKET AS PER DIVISION 23 SPECIFICATION SECTION 230713.

NOTE

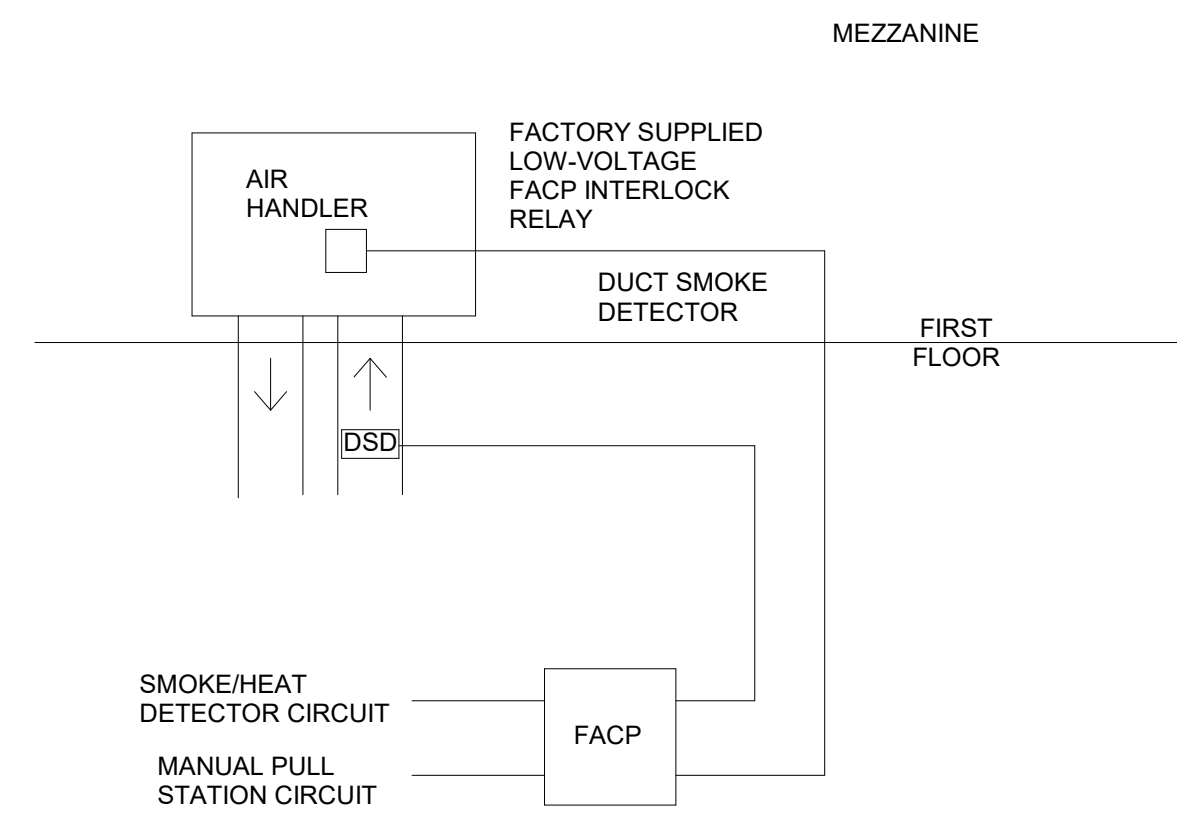
THESE DRAWINGS ARE BASED ON THE LATEST ARCHITECTURAL PLANS DATED 10/19/2021.

MECHANICAL SHEET LIST

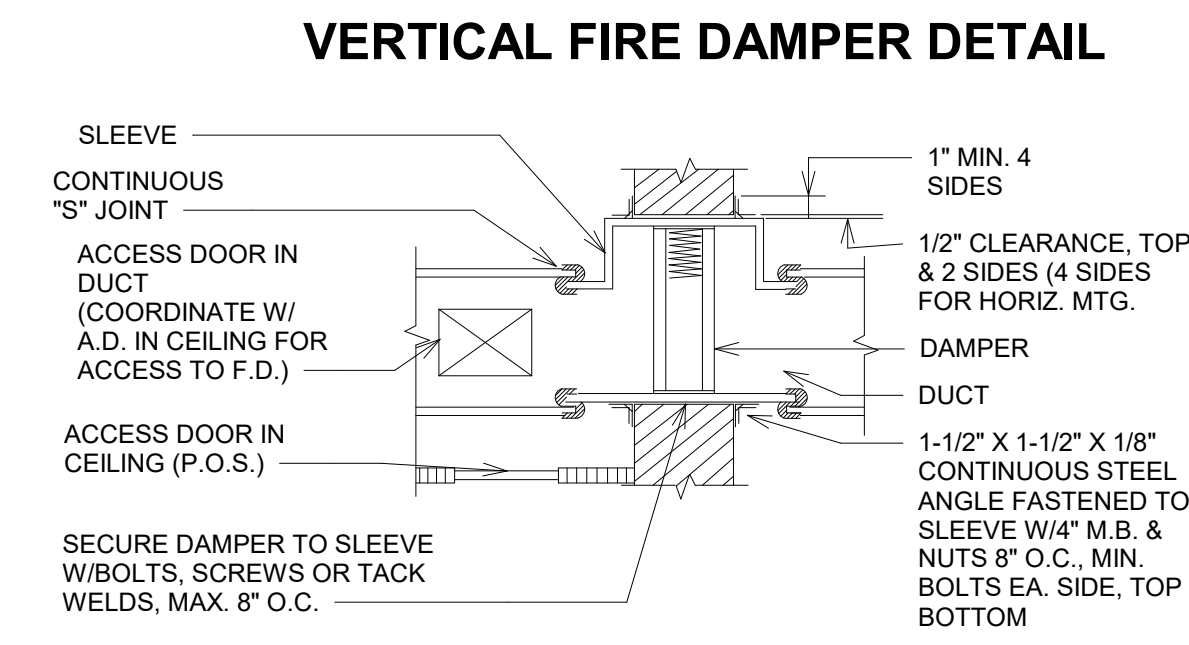
SHEET NUMBER	SHEET NAME
M1.10	MECHANICAL SCOPE
M1.20	MECHANICAL DETAILS & ABBREVIATIONS
M1.30	MECHANICAL CALCULATION SUMMARY
M1.40	MECHANICAL SCHEDULES
M1.50	ROOM AIR BALANCE SCHEDULE
M2.10	HVAC ZONING
M2.20	HVAC CONTROLS MATRIX & SEQUENCE OF OPERATION
M3.10	HVAC EQUIPMENT LAYOUTS & CONDENSATE DRAIN
M4.10	HVAC DIFFUSER & BALANCING LAYOUTS
M5.10	MECHANICAL ISOMETRIC VIEW I
M6.10	MECHANICAL ISOMETRIC VIEW II
M6.20	OVERVIEW HVAC SUPPLY DRAWINGS
M6.30	OVERVIEW HVAC RETURN DRAWINGS
M6.40	MECHANICAL SECTION VIEWS I
M6.40	MECHANICAL SECTION VIEWS II



1 LINEAR DIFFUSER DETAIL SCALE: NTS

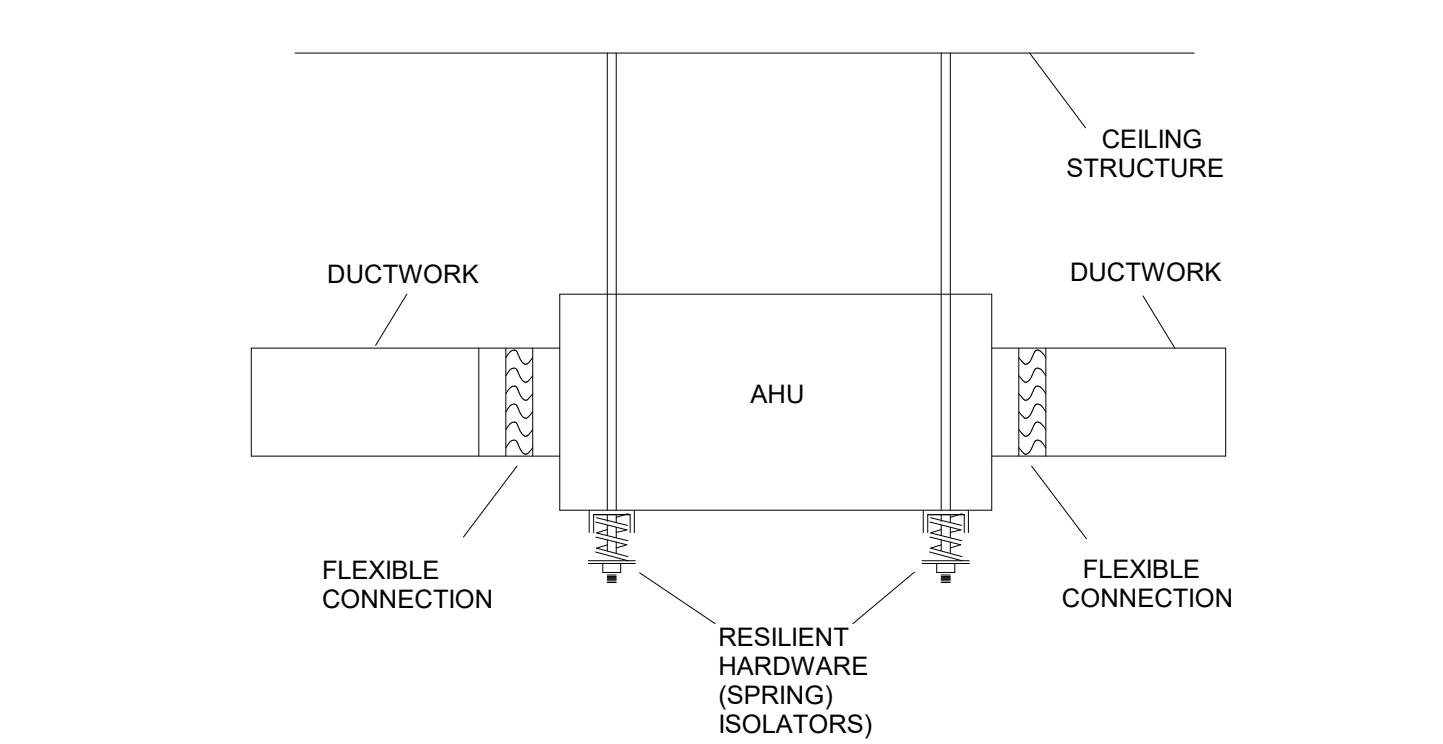
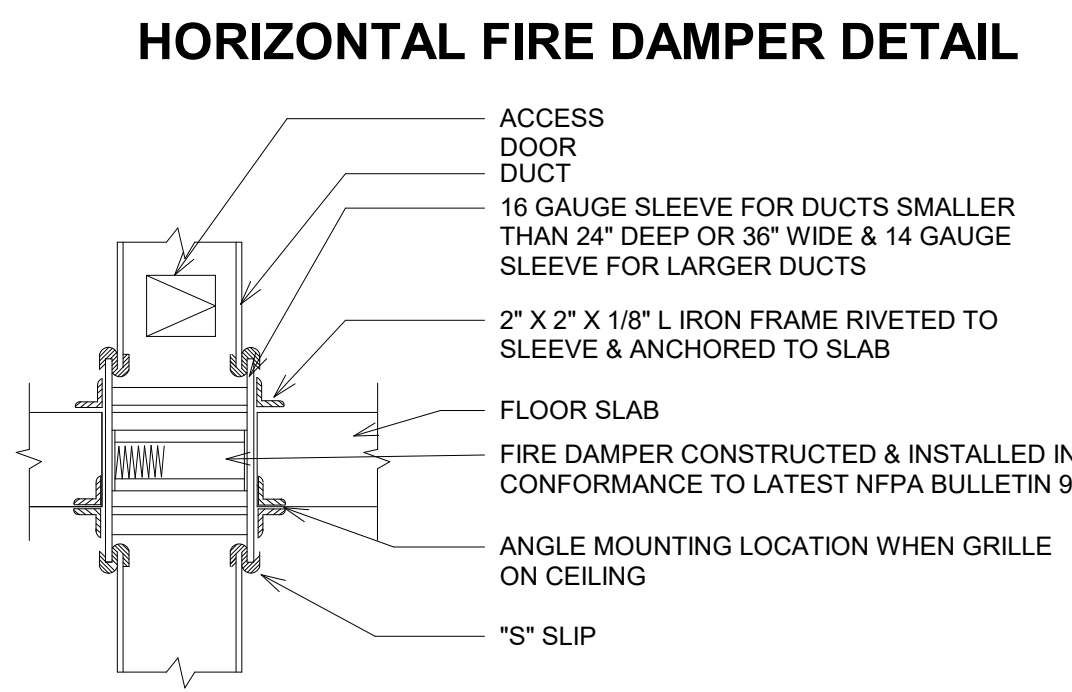


4 MECHANICAL FACP INTERFACE SCALE: NTS

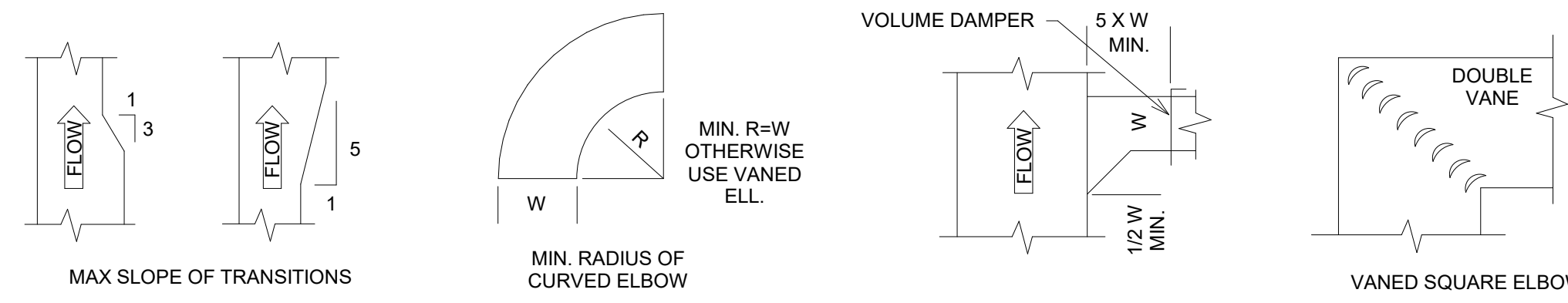


NOTES:
 1. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLING FIRE DAMPERS WHEREVER NECESSARY TO MAINTAIN FIRE RATING OF WALL OR FLOOR BEING PENETRATED. FLOOR VERIFY FIRE WALLS AND FLOORS (IF ANY) WITH ARCHITECT.
 2. DAMPER STYLE & SLEEVE CONFIGURATION IS GOVERNED BY MAINTAINING A MAXIMUM 0.06 STATIC PRESSURE @ 2500 F.P.M. FACE VELOCITY.
 3. DEPTH OF DAMPER TO BE COORDINATED WITH WALL/FLOOR THICKNESS.
 4. INSTALLATIONS & MATERIALS PER U.L. 555.
 5. ALL FIRE DAMPERS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS
 6. SUBMIT MANUFACTURER'S DATA SHEETS TO ENGINEER FOR APPROVAL.

2 FIRE DAMPER DETAILS SCALE: NTS

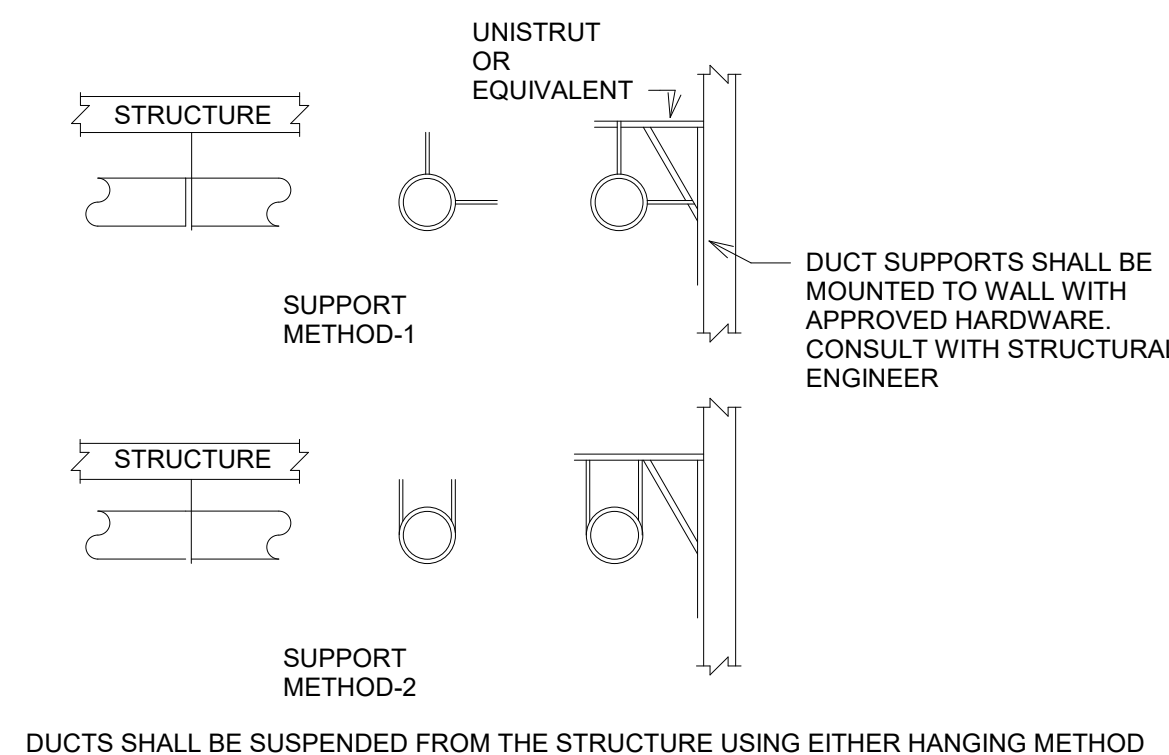


3 BLOWER/FAN CONNECTION & HANGING DETAIL SCALE: NTS



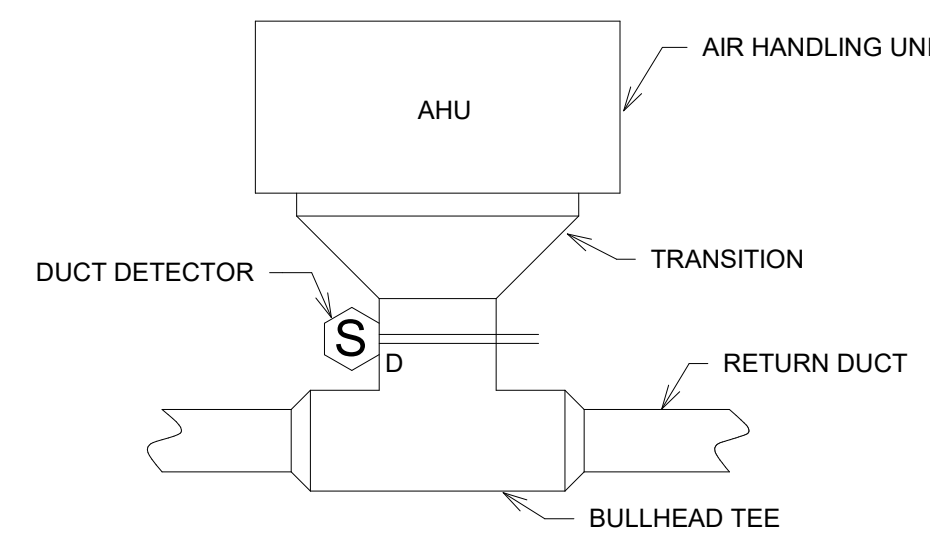
NOTE: MECHANICAL CONTRACTOR TO FOLLOW THESE TRANSITION REQUIREMENTS EXACTLY UNLESS ALTERNATIVES ARE APPROVED BY THE ENGINEER.

5 DUCT CONSTRUCTION DETAIL (TYPICAL) SCALE: NTS

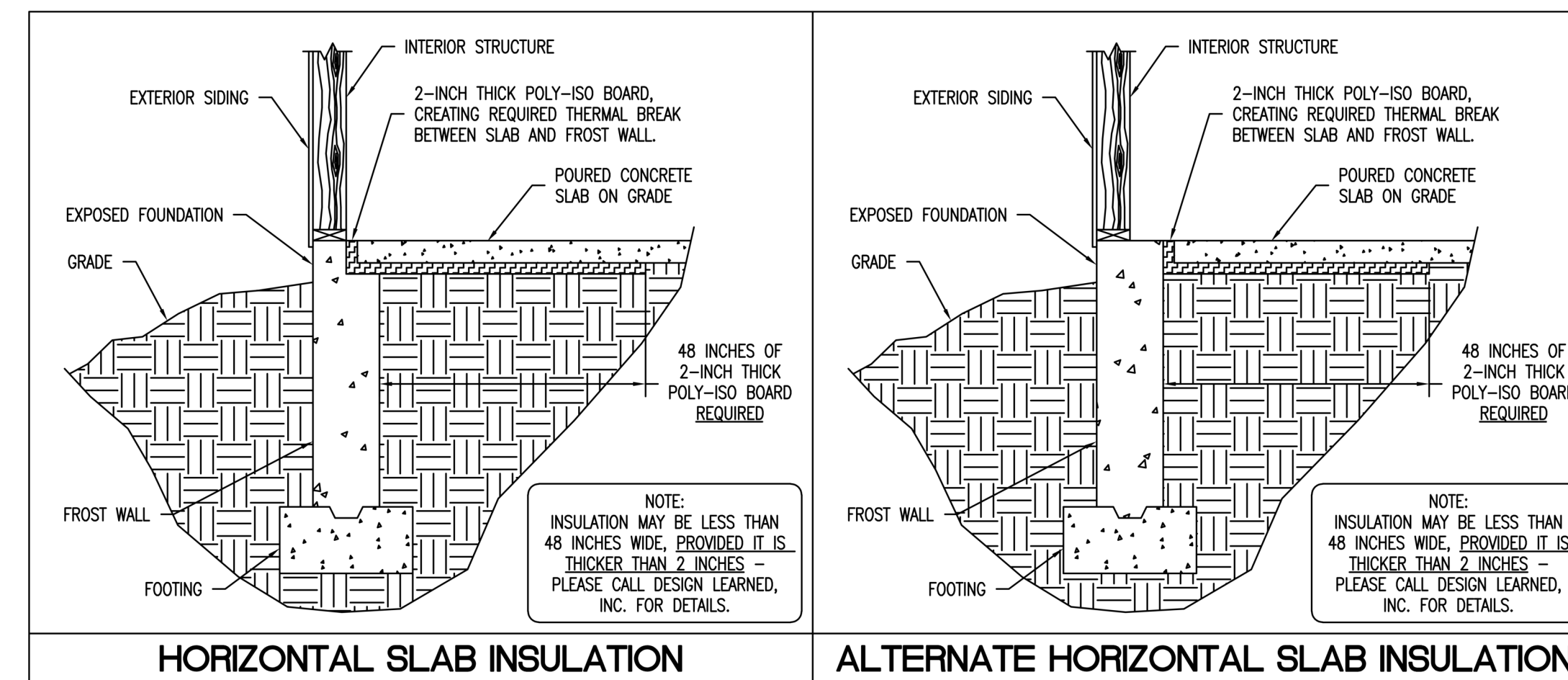


6 DUCT SUPPORT DETAIL SCALE: NTS

NOTES:
 1. ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL SIMPLEX 4098 SERIES HOUSING WITH 4098-9751 TRUE-ALARM SENSOR DUCT DETECTOR, OR EQUIVALENT, IF UNIT NOT SUPPLIED WITH SUPPLY PLENUM DETECTORS FROM FACTORY. IN AIR HANDLING SYSTEM WHERE REQUIRED BY INTERNATIONAL MECHANICAL CODE VERIFY WITH MECHANICAL CONTRACTOR EXACT LOCATIONS AND REQUIREMENTS PRIOR TO PURCHASE AND INSTALLATION.
 2. MECHANICAL CODE STATES: SMOKE DETECTORS SHALL BE INSTALLED IN SUPPLY AIR SYSTEMS WITH A DESIGN CAPACITY GREATER THAN 2,000 CFM. IN THE SUPPLY AIR DUCT OR PLENUM UPSTREAM OF ANY FILTERS, EXHAUST AIR CONNECTIONS, OUTDOOR AIR CONNECTIONS, OR DECONTAMINATION EQUIPMENT AND APPLIANCES



7 DUCT DETECTOR LOCATION DETAIL SCALE: NTS



8 SLAB INSULATION DETAIL SCALE: NTS

SLAB INSULATION PROVIDED FOR COMPLIANCE WITH ENERGY CODE - REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR FINAL SLAB INSULATION REQUIREMENTS.



Revisions:

REV.	DATE	TITLE

Date:
 CONSTRUCTION DOCS
 02/11/2022
 Project No.
 MESQU TX
 Drawn By:
 RAS
 Checked By:
 CSL
 Sheet Title:
 MECHANICAL DETAILS &
 ABBREVIATIONS
 Drawing No.

MESQU.TX - ASHRAE 62.1 CALCULATIONS																			OCCUPANCY - SENSIBLE & LATENT						
ZONE NUMBER	ROOF TOP UNIT		ROOMS SERVED		CONTROL SENSORS	MAX # PEOPLE	FROM TRANE TRACE 3D PLUS MODEL		FROM QUORUM 2004.05.24 DRAWINGS, SHEET A2.04	From 2015 IMC, TABLE 403.3.1.1				"Nom Vent" from TRACE calculations (2021.07.15)		From 2015 IMC, TABLE 403.3.1.1	"Rm Exh" from TRACE calculations (2021.07.15)	1 HUMAN = 1 ANIMAL = 250 BTU/H (SENSIBLE) = 200 BTU/H (LATENT) 1 CANINE = 0.25 ANIMAL = 62.5 BTU/H (SENSIBLE) = 50 BTU/H (LATENT) 1 FELINE = 0.1 ANIMAL = 25 BTU/H (SENSIBLE) = 20 BTU/H (LATENT)							
	MARK	TYPE	NUMBER	NAME		Pz	TOTAL SQ. FT.	Az OCCUPIABLE	FT.	OCCUPANCY	PEOPLE OUTDOOR AIRFLOW RATE Rp CFM/PERSON	AREA OUTDOOR AIRFLOW RATE Ra CFM/ SQ. FEET	OCCUPANT DENSITY # PEOPLE/ 1,000 SQ. FEET	EXHAUST AIRFLOW RATE CFM/ SQ. FEET	OUTSIDE AIR Vbz ASHRAE 62.1 MIN CFM Voz E2=1		ACTUAL CFM	ASHRAE 62.1 MIN CFM	ACTUAL CFM	HUMAN ANIMALS	NON-HUMAN ANIMALS	TOTAL ANIMALS	TOTAL BTU/H		
ZONE 1	DOAS-1	HEAT PUMP	151	TREATMENT/LAB	T'STAT, H'STAT	1	74.24	74.24	11.833	PET SHOPS	7.5	0.18	10	0.9	21	21	67	67	67	0	0	0	0	0	0
			6			6	574.99	574.99	11.833	PET SHOPS	7.5	0.18	10	0.9	148	148	517	517	517	2	5	5	3.75	937.5	750
														TOTALS:	169	169	584	584	584	2	5	5	3.75	937.5	750
ZONE 2	DOAS-2	HEAT PUMP	149	DOG ADOPTION	T'STAT, H'STAT	12	1184.09	1184.09	11.833	PET SHOPS	7.5	0.18	10	0.9	303	303	1066	1066	1066	2	28	0	9	2250	1800
			6			6	574.99	574.99	11.833	PET SHOPS	7.5	0.18	10	0.9	148	148	517	517	517	2	28	0	9	2250	1800
														TOTALS:	303	303	1066	1066	1066	2	28	0	9	2250	1800
ZONE 3	DOAS-3	HEAT PUMP	147	CAT ADOPTION	T'STAT, H'STAT	12	1175.39	1175.39	11.833	PET SHOPS	7.5	0.18	10	0.9	302	302	1058	1058	1058	2	0	114	13.4	3350	2680
			6			6	574.99	574.99	11.833	PET SHOPS	7.5	0.18	10	0.9	148	148	517	517	517	2	0	114	13.4	3350	2680
														TOTALS:	302	302	1058	1058	1058	2	0	114	13.4	3350	2680

ON WORST COOLING DAY (2021 ASHRAE FUNDAMENTALS)			
ZONE 1			
	SENSIBLE (BTU/H)	LATENT (BTU/H)	SENSIBLE + LATENT (BTU/H)
FROM TRACE 3D PLUS	1520	800	2320
EQUATIONS FROM ASHRAE	2547	0	2547
	16949	9990	26939
FROM TRACE 3D PLUS	AIR SPECIFIC HEAT (BTU/LB*F): 0.2456 AIR DENSITY (LB/FT*3) 0.074 OUTSIDE AIR DB (°F): 101.6 ZONE COOLING SETPOINT (°F): 75 VENTILATION CFM: 584		31806
FROM ASHRAE 2021 TABLE & PSYCHROMETRIC CHART	HUMIDITY RATIO FOR DALLAS LOVE FIELD @ 0.4% COOLING: 101.6 °F DB, 74.7 °F MCWB 0.0128 (HUMIDITY RATIO IN LB WATER PER LB DRY AIR):		
FROM PSYCHROMETRIC CHART	INDOOR HUMIDITY RATIO (LB WATER PER LB DRY AIR, 50% RH @ 75°F): 0.0093		
ZONE 2			
	SENSIBLE (BTU/H)	LATENT (BTU/H)	SENSIBLE + LATENT (BTU/H)
FROM TRACE 3D PLUS	2869	1799	4668
EQUATIONS FROM ASHRAE	5515	0	5515
	30912	18220	49132
FROM TRACE 3D PLUS	AIR SPECIFIC HEAT (BTU/LB*F): 0.2456 AIR DENSITY (LB/FT*3) 0.074 OUTSIDE AIR DB (°F): 101.6 ZONE COOLING SETPOINT (°F): 75 VENTILATION CFM: 1066		59315
FROM ASHRAE 2021 TABLE & PSYCHROMETRIC CHART	HUMIDITY RATIO FOR DALLAS LOVE FIELD @ 0.4% COOLING: 101.6 °F DB, 74.7 °F MCWB 0.0128 (HUMIDITY RATIO IN LB WATER PER LB DRY AIR):		
FROM PSYCHROMETRIC CHART	INDOOR HUMIDITY RATIO (LB WATER PER LB DRY AIR, 50% RH @ 75°F): 0.0093		
ZONE 3			
	SENSIBLE (BTU/H)	LATENT (BTU/H)	SENSIBLE + LATENT (BTU/H)
FROM TRACE 3D PLUS	3669	2799	6468
EQUATIONS FROM ASHRAE	4671	0	4671
	30684	18086	48771
FROM TRACE 3D PLUS	AIR SPECIFIC HEAT (BTU/LB*F): 0.2456 AIR DENSITY (LB/FT*3) 0.074 OUTSIDE AIR DB (°F): 101.6 ZONE COOLING SETPOINT (°F): 75 VENTILATION CFM: 1058		59910
FROM ASHRAE 2021 TABLE & PSYCHROMETRIC CHART	HUMIDITY RATIO FOR DALLAS LOVE FIELD @ 0.4% COOLING: 101.6 °F DB, 74.7 °F MCWB 0.0128 (HUMIDITY RATIO IN LB WATER PER LB DRY AIR):		
FROM PSYCHROMETRIC CHART	INDOOR HUMIDITY RATIO (LB WATER PER LB DRY AIR, 50% RH @ 75°F): 0.0093		

Mesquite Animal Shelter
 1650 Gross Rd,
 Mesquite, TX 75149



CONSTRUCTION DOCUMENTS

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Revisions:

REV.	DATE	TITLE

Date:
CONSTRUCTION DOCS
02/11/2022

Project No:
MESQU.TX

Drawn By:
RAS

Checked By:
CSL

Sheet Title:
MECHANICAL CALCULATION SUMMARY

Drawing No.

M1.30

ROOFTOP UNIT SCHEDULE

TAG	ZONE	MANUFACTURER	MODEL	SUPPLY (CFM)	DIMENSIONS (L X W X H)	WEIGHT (LBS)	ELECTRICAL DATA				ENERGY EFFICIENCIES				FAN DATA				MOTOR DATA				COMPRESSOR DATA			COIL DATA				CURB DATA			
							VOLTS/PH/Hz	MCA (AMPS)	MOP (AMPS)	EER	IEER	SUPPLY FAN		EXHAUST FAN		ECONOMIZER FAN		SUPPLY MOTOR		EXHAUST MOTOR		TYPE	QUANTITY	RLA (A)	MODEL	FACE AREA (SQ FT)	REFRIGERANT TYPE	FILTER TYPE	MODEL	DIMENSIONS (L X W X H)	WEIGHT (LBS)	NOTES	
												TYPE	QUANTITY	TYPE	QUANTITY	TYPE	QUANTITY	QUANTITY	HP (OPERATING/SIZE)	QUANTITY	HP (OPERATING/SIZE)												
DOAS-1	1	GREENHECK	RV-25-5A	1300	149.5" X 86.4" X 60.2"	2835	208/360	28.3	40.0	11.0	17.9	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	1	0.37/1	1	0.10/1	INVERTER SCROLL	1	14.1	DX38S04S12-42x42.5-LH	12	R-410A	MERV 8	GKD-48/145-G14	145" X 48" X 14"	218	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
DOAS-2	2	GREENHECK	RVE-40-30-30L-5A	2370	149.5" X 86.4" X 60.2"	3040	208/360	29.2	40.0	11.0	17.9	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	1	0.99/1	1	0.35/1	INVERTER SCROLL	1	14.1	DX38S04S12-42x42.5-LH	12	R-410A	MERV 8	GKD-48/145-G14	145" X 48" X 14"	218	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	
DOAS-3	3	GREENHECK	RVE-40-30-30L-5A	2352	149.5" X 86.4" X 60.2"	3040	208/360	29.2	40.0	11.0	17.9	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	PLENUM DIRECT DRIVE	1	1	0.91/1	1	0.35/1	INVERTER SCROLL	1	14.1	DX38S04S12-42x42.5-LH	12	R-410A	MERV 8	GKD-48/145-G14	145" X 48" X 14"	218	1, 2, 3, 4, 5, 6, 7, 8, 9, 10	

NOTES:

- INCLUDE END INTAKE & BOTTOM DISCHARGE FOR OUTDOOR AIR, BOTTOM INTAKE & SIDE DISCHARGE FOR EXHAUST AIR
- INCLUDE HOT GAS REHEAT AND ECONOMIZERS.
- INCLUDE AERAPY UV FILTRATION.
- INCLUDE RETURN AIR SMOKE DETECTOR.
- INCLUDE FACTORY WIRED NON-FUSED DISCONNECT SWITCH.
- INCLUDE FACTORY WIRED VFDs.
- INCLUDE ELECTROFIN COIL COATING (ALL COILS).
- INCLUDE FACTORY MOUNTED AND WIRED SERVICE OUTLET.
- INCLUDE MOTOR SHAFT GROUNDING.
- INCLUDE REMOTE DISPLAY (DOAS MICROPROCESSOR CONTROLS (SPACE THERMOSTAT, INCLUDES HUMIDITY CONTROL)) AND AIRFLOW MONITORS (OUTSIDE AIR, EXHAUST AIR, & SUPPLY AIR).

ROOFTOP UNIT PERFORMANCE DATA

TAG	ZONE	DESIGN CONDITIONS (ASHRAE 2021)		AIRFLOWS				ENERGY RECOVERY PERFORMANCE								COOLING SPECIFICATIONS						HEATING SPECIFICATIONS																
		SUMMER DB (°F)	SUMMER WB (°F)	WINTER DB (°F)	SUPPLY (CFM)	OA (CFM)	RECIRC (CFM)	EXHAUST (CFM)	SUMMER				WINTER				TYPE	TOTAL CAPACITY (MBH)	SENSIBLE (MBH)	COIL (DB/WB)		REHEAT		TYPE	TOTAL CAPACITY (MBH)	DRY BULB TEMPERATURES												
									OUTDOOR DB (°F)	OUTDOOR WB (°F)	SUPPLY DB (°F)	RETURN DB (°F)	EXHAUST DB (°F)	EXHAUST WB (°F)	CAPACITY REDUCTION (BTU/H)	OUTDOOR DB (°F)				OUTDOOR WB (°F)	SUPPLY DB (°F)	RETURN DB (°F)	EXHAUST DB (°F)			EXHAUST WB (°F)	CAPACITY REDUCTION (BTU/H)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	EAT (°F)	LAT (°F)	AMBIENT OUTDOOR AIR (°F)				
DOAS-1	1	101.6	74.7	24.7	1300	584	716	584	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
DOAS-2	2	101.6	74.7	24.7	2370	1066	1304	1066	101.6	74.7	80.0	65.2	75.0	62.5/50	96.3	72.6	38856	24.7	20.7	60.7	51.8	70.0	58.4/50	33.4	30.3	41446	AIR-SOURCE HEAT PUMP	70.3	51.3	86.9/63.4	51.0/50.7	49.1	91.9	AIR-SOURCE HEAT PUMP	38	49.6	76.7	24.7
DOAS-3	3	101.6	74.7	24.7	2352	1058	1294	1058	101.6	74.7	80.0	65.2	75.0	62.5/50	96.3	72.6	38564	24.7	20.7	60.8	51.8	70.0	58.4/50	33.3	30.2	41250	AIR-SOURCE HEAT PUMP	72.6	60.1	77.3/63.7	53.9/53.3	64.5	83.3	AIR-SOURCE HEAT PUMP	37.5	65.8	80.5	24.7

POWERED UV FILTRATION SCHEDULE

MODEL	MANUFACTURER	ASSOCIATED EQUIPMENT	DIMENSIONS (L X W X H)	POWER
PPR-12	AERAPY, LLC	DOAS-1	21" X 3.3" X 2.7"	AC 120V, 277V COMPATIBLE
PPR-20	AERAPY, LLC	DOAS-2	21" X 3.3" X 2.7"	AC 120V, 277V COMPATIBLE
PPR-20	AERAPY, LLC	DOAS-3	21" X 3.3" X 2.7"	AC 120V, 277V COMPATIBLE

COORDINATE PURCHASE AND INSTALLATION WITH ANNETTE UDA AT AERAPY, LLC. ANNETTE@PETAIRAPY.COM. CONTRACTOR SHALL CARRY AN ALLOWANCE OF \$16,000 TO COVER PURCHASE AND INSTALLATION OF THIS EQUIPMENT.

AIR TERMINAL SCHEDULE

TAG	TYPE	SYSTEM CLASSIFICATION	MANUFACTURER	MODEL	QUANTITY	MATERIAL	FACE SIZE (INCHES)	NECK SIZE (INCHES)	MIN CFM	MAX CFM	DESCRIPTION
RG-1	RETURN GRILLE (SPIRAL ROUND)	RETURN AIR	METALAIRE	4000PFR-1	8	ALUMINUM	36 x 3	36 x 3	126	566	Return Grille for Spiral Round Duct, Aluminum with Perforated Face
RG-2	RETURN GRILLE (CEILING)	RETURN AIR	METALAIRE	RH-6	2	ALUMINUM	24 x 24	6 x 6 - 10 x 10	50	800	RH Series Ceiling Return Grille - Roll Formed - 45° Louvered Face
RG-3	RETURN GRILLE (CEILING)	RETURN AIR	METALAIRE	RH-6	5	ALUMINUM	12 x 8	12 x 8	133	667	RH Series Ceiling Return Grille - Roll Formed - 45° Louvered Face
RG-4	RETURN GRILLE (WALL)	RETURN AIR	METALAIRE	RH-1	1	ALUMINUM	22 x 22	22 x 22	672	3361	RH Series Side Wall Return Grille - Rolled Form Aluminum Sidewall Return Grille
SD-1	LINEAR SUPPLY DIFFUSER (SPIRAL ROUND)	SUPPLY AIR	METALAIRE	6610SP	14	ALUMINUM	48 x 4.25	48 x 4.25	90	480	Adjustable Linear Slot Diffuser for Spiral Round Duct - 1" Slot Width, Extruded Aluminum
SD-2	LINEAR SUPPLY GRILLE (CEILING/WALL)	SUPPLY AIR	METALAIRE	2230H	15	ALUMINUM	12 x 5	12 x 5	126	326	Extruded Aluminum Linear Bar Grille - 3/16" Border, 7/32" Bars on 1/2" Centers, 30° Deflection
SD-3	LINEAR SUPPLY GRILLE (CEILING/WALL)	SUPPLY AIR	METALAIRE	2200H	6	ALUMINUM	12 x 5	12 x 5	126	326	Extruded Aluminum Linear Bar Grille - 3/16" Border, 7/32" Bars on 1/2" Centers, 0° Deflection

DUCT DAMPER SCHEDULE

TAG	MANUFACTURER	MODEL	QUANTITY	MIN SIZE	MAX SIZE	DESCRIPTION
VD-1	RUSKIN	MD25	17	5"W X 4"H	36"W X 12"H	Galv. Rectangular, light duty, single blade, balancing damper, 1200 FPM, 1" w.c. max.
VD-2	RUSKIN	CDRS25	8	4"Ø	24"Ø	Galv. round, dual skin blade, class II leakage, heavy duty, 4000 FPM, 10" w.c. max.

Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149



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Date:
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02/11/2022
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RAS
Checked By:
CSL
Sheet Title:
MECHANICAL SCHEDULES
Drawing No.

M1.40

MESQU.TX - ROOM AIR BALANCE SCHEDULE																			
ZONE	SA (CFM)	EA or OA (CFM)	% EA or OA	ROOM NUMBER	ROOM NAME	FLOOR AREA (SF)	CEILING HEIGHT AFF (FT)	ROOM VOLUME (CF)	ASHRAE/IMC OCCUPANCY CLASSIFICATION	SA (CFM)	RA (CFM)	OA PORTION OF SA (CFM)	OA ASHRAE 62.1 (MIN CFM)	EA (CFM)	EA ASHRAE 62.1 (MIN CFM)	AIR BALANCE (CFM)	OA CHANGES/HR	SA CIRCULATIONS/HR	CFM/SQFT
1	1300	584	45%	151	TREATMENT/LAB	74.24	11.833	878	PET SHOPS	150	83	67	21	67	67	0	4.6	10.2	2.02
						574.99	11.833	6804	PET SHOPS	1150	633	517	148	517	517	0	4.6	10.1	2.00
					TOTALS:	649.23	7682	1300	716	584	169	584	0	4.6	10.2	2.00			
2	2370	1066	45%	149	DOG ADOPTION	1184.09	11.833	14011	PET SHOPS	2370	1304	1066	303	1066	1066	0	4.6	10.1	2.00
						TOTALS:	1184.09	14011	2370	1304	1066	303	1066	1066	0	4.6	10.1	2.00	
					TOTALS:	1175.39	13908	2352	1294	1058	302	1058	1058	0	4.6	10.1	2.00		
3	2352	1058	45%	147	CAT ADOPTION	1175.39	11.833	13908	PET SHOPS	2352	1294	1058	302	1058	1058	0	4.6	10.1	2.00
						TOTALS:	1175.39	13908	2352	1294	1058	302	1058	1058	0	4.6	10.1	2.00	

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Sheet Title:
ROOM AIR BALANCE
SCHEDULE
Drawing No.

M1.50



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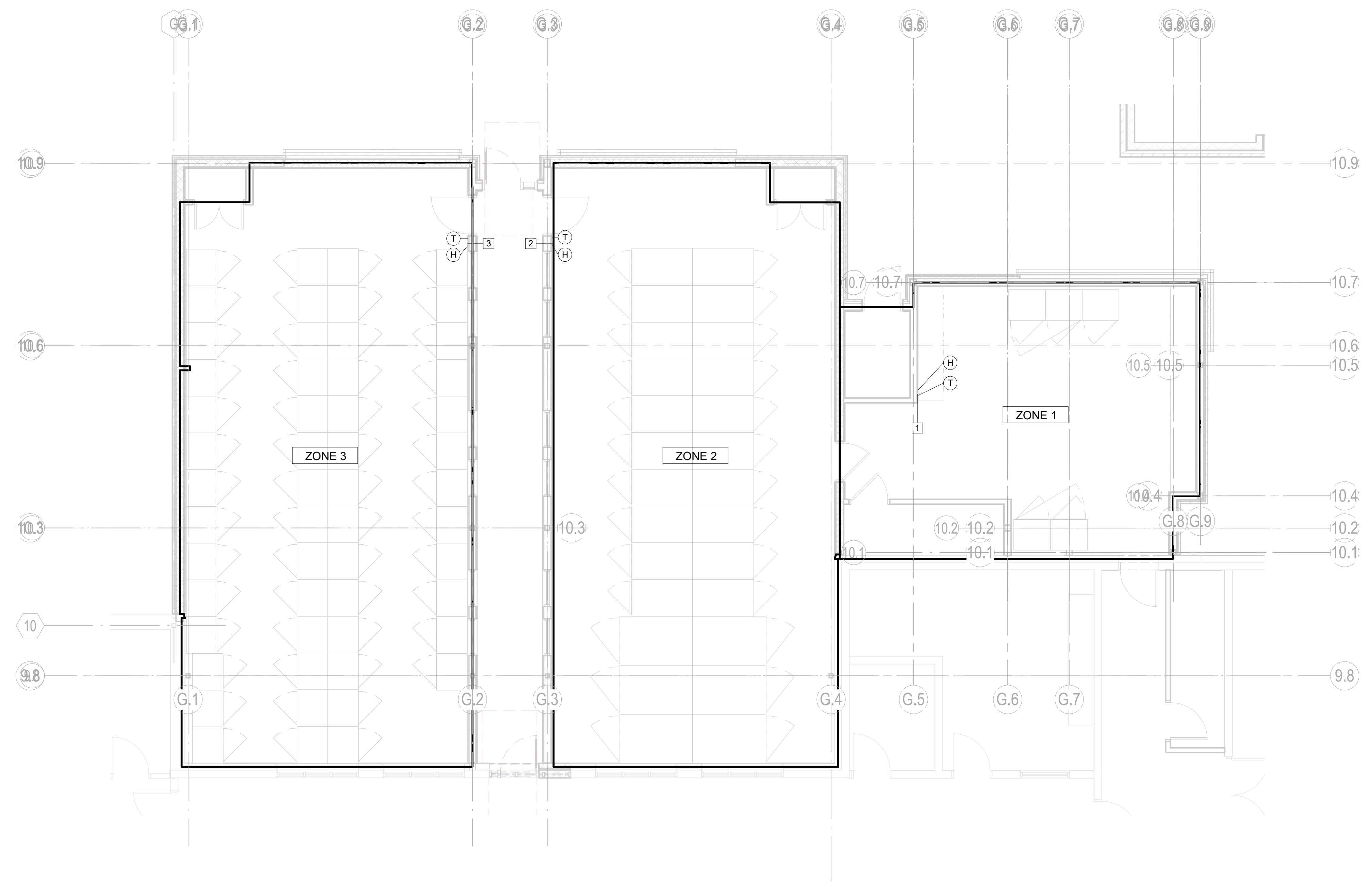


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Date: CONSTRUCTION DOCS 02/11/2022
 Project No. MESQU TX
 Drawn By: RAS
 Checked By: CSL
 Sheet Title: HVAC ZONING
 Drawing No.

M2.10

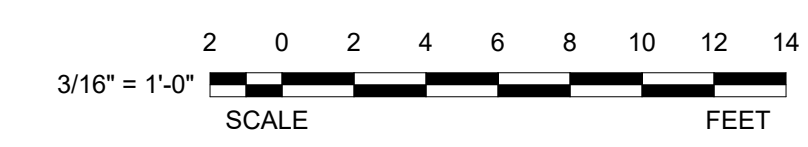


KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	MOUNT GREENHECK DOAS MICROPROCESSOR CONTROLS (SPACE THERMOSTAT, INCLUDES HUMIDITY CONTROL) FOR DOAS-1 AT THIS LOCATION (SHALL BE WIRED INSIDE THE WALL).
2	MOUNT GREENHECK DOAS MICROPROCESSOR CONTROLS (SPACE THERMOSTAT, INCLUDES HUMIDITY CONTROL) FOR DOAS-2 AT THIS LOCATION (SHALL BE WIRED INSIDE THE WALL).
3	MOUNT GREENHECK DOAS MICROPROCESSOR CONTROLS (SPACE THERMOSTAT, INCLUDES HUMIDITY CONTROL) FOR DOAS-3 AT THIS LOCATION (SHALL BE WIRED INSIDE THE WALL).

MECHANICAL LEGEND:

SUPPLY DUCT	
RETURN DUCT	
EXHAUST DUCT	
FRESH AIR DUCT	
FLEXIBLE DUCT	
LINEAR DIFFUSER/REGISTER	
SUPPLY DIFFUSER	
RETURN GRILLE/REGISTER	
EXHAUST GRILLE/REGISTER	
HUMIDISTAT LOCATION	
THERMOSTAT LOCATION	





Revisions:

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Date:
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Drawn By:
 RAS

Checked By:
 CSL

Sheet Title:
 HVAC CONTROLS MATRIX &
 SEQUENCE OF OPERATION

Drawing No.

SEQUENCE OF OPERATION FOR DEDICATED OUTDOOR AIR SYSTEMS

THE DEDICATED OUTDOOR AIR SYSTEMS SHALL EACH BE CONTROLLED UTILIZING A MICROPROCESSOR CONTROLLER WHICH INCLUDES THREE MODES FOR DETERMINING OCCUPANCY: DIGITAL INPUT, OCCUPANCY SCHEDULE, OR BMS. EACH UNIT SHALL INCLUDE A REMOTE DISPLAY TO PERMIT MONITORING AND CONTROL OF THE SYSTEMS FROM WITHIN EACH INDIVIDUAL ZONE.

THE MICROPROCESSOR WILL ENABLE OPERATION OF THE UNIT AFTER RECEIVING A DIGITAL INPUT, UPON WHICH THE FOLLOWING SHALL OCCUR:

- IF THE UNIT INCLUDES AN ENERGY RECOVERY WHEEL, THEN THIS WILL START.
- DAMPERS WILL BECOME POWERED.
- THE EXHAUST AND SUPPLY FANS WILL START AFTER ADJUSTABLE DELAY.
- AIR TEMPERING WILL BEGIN AFTER ADJUSTABLE DELAY.

THESE UNITS SHOULD BE CONFIGURED SUCH THAT THE SUPPLY FANS OPERATE CONTINUOUSLY WHILE THE UNITS ARE IN OCCUPIED MODE.

THE MICROPROCESSOR OFFERS FIVE OCCUPANCY MODES:

- DIGITAL INPUT
- OCCUPANCY SCHEDULE
- BMS
- ALWAYS OCCUPIED
- ALWAYS UNOCCUPIED

ALL THREE DOAS UNITS SHALL BE CONFIGURED TO OPERATE IN OCCUPIED MODE ACCORDING TO A SPACE TEMPERATURE SET POINT CONTROL. THE SUPPLY AIR TEMPERATURE IN EACH SPACE SHALL BE CONSTANT AND SET TO 75°F WHEN IN COOLING MODE AND SET TO 70°F WHEN IN HEATING MODE. WHEN IN OCCUPIED MODE, THE EXHAUST FANS, THE SUPPLY FANS, THE ENERGY RECOVERY WHEEL (IF EQUIPPED), AND THE DAMPER CONTROLS (FOR OUTSIDE AIR AND RECIRCULATED AIR) WILL ALL BE IN OPERATION.

COOLING MODE
 THE UNIT SHALL ENTER INTO COOLING MODE WHEN THE SPACE TEMPERATURE IS ABOVE THE COOLING SETPOINT (75°F). THE COMBINATION OF THE RECIRCULATED AIR AND THE OUTSIDE AIR WHICH TOGETHER CONSTITUTE THE SUPPLY AIR ENTERING THE SPACE SUPPLY AIR WILL PASS OVER COILS WHICH CONTAIN REFRIGERANT, WHICH WILL ABSORB HEAT IN THE AIRSTREAM TO REDUCE THE SPACE TEMPERATURE TO THE DESIRED LEVEL.

HEATING MODE
 THE UNIT SHALL ENTER INTO HEATING MODE WHEN THE SPACE TEMPERATURE IS BELOW THE HEATING SETPOINT (70°F). THE COMBINATION OF THE RECIRCULATED AIR AND THE OUTSIDE AIR WHICH TOGETHER CONSTITUTE THE SUPPLY AIR ENTERING THE SPACE SUPPLY AIR WILL PASS OVER COILS WHICH CONTAIN REFRIGERANT, WHICH WILL ABSORB HEAT IN THE COILS TO INCREASE THE SPACE TEMPERATURE TO THE DESIRED LEVEL.

DEFROST CYCLE
 NOTE THAT THESE UNITS WILL PERIODICALLY NEED TO ENTER INTO A DEFROST CYCLE TO ELIMINATE FROST WHICH HAS ACCUMULATED ON THE OUTSIDE COIL WHEN THE UNIT IS IN HEATING MODE. DEFROST MODE WILL START WHEN ONE OF THE TWO FOLLOWING CONDITIONS IS MET:

1. SATURATED SUCTION TEMPERATURE < -15°F, OR
2. SATURATED SUCTION TEMPERATURE < (AMBIENT CONDITIONS MINUS A 35°F/25°F OFFSET)

THE DEFROST CYCLE WILL TERMINATE WHEN ONE OF THE FOLLOWING TWO CONDITIONS IS MET:

1. SATURATED DISCHARGE TEMPERATURE OF ALL REFRIGERANT CIRCUITS > CANCEL DEFROST SETPOINT (80°F), OR
2. MAX DEFROST TIME HAS BEEN EXCEEDED (5 MINUTES).

ECONOMIZER
 THE UNIT WILL ENTER ECONOMIZER MODE IF THE UNIT IS BOTH IN COOLING MODE AND THE OUTSIDE AIR CONDITIONS ARE SUITABLE FOR FREE COOLING. THE ECONOMIZER WILL BE LOCKED OUT WHEN:

- OUTSIDE AIR TEMPERATURE > ECONOMIZER HIGH LOCKOUT TEMPERATURE (65°F).
- OUTSIDE AIR ENTHALPY > ECONOMIZER HIGH ENTHALPY LOCKOUT (23 BTU/LB).
- UNIT IS IN DEHUMIDIFICATION MODE.
- UNIT IS IN HEATING MODE.

IF THE UNIT IS EQUIPPED WITH AN ENERGY RECOVERY WHEEL (DOAS-2 & DOAS-3), THE ECONOMIZER WILL MODULATE/STOP THE ROTATION OF THE WHEEL TO ACHIEVE FREE COOLING.

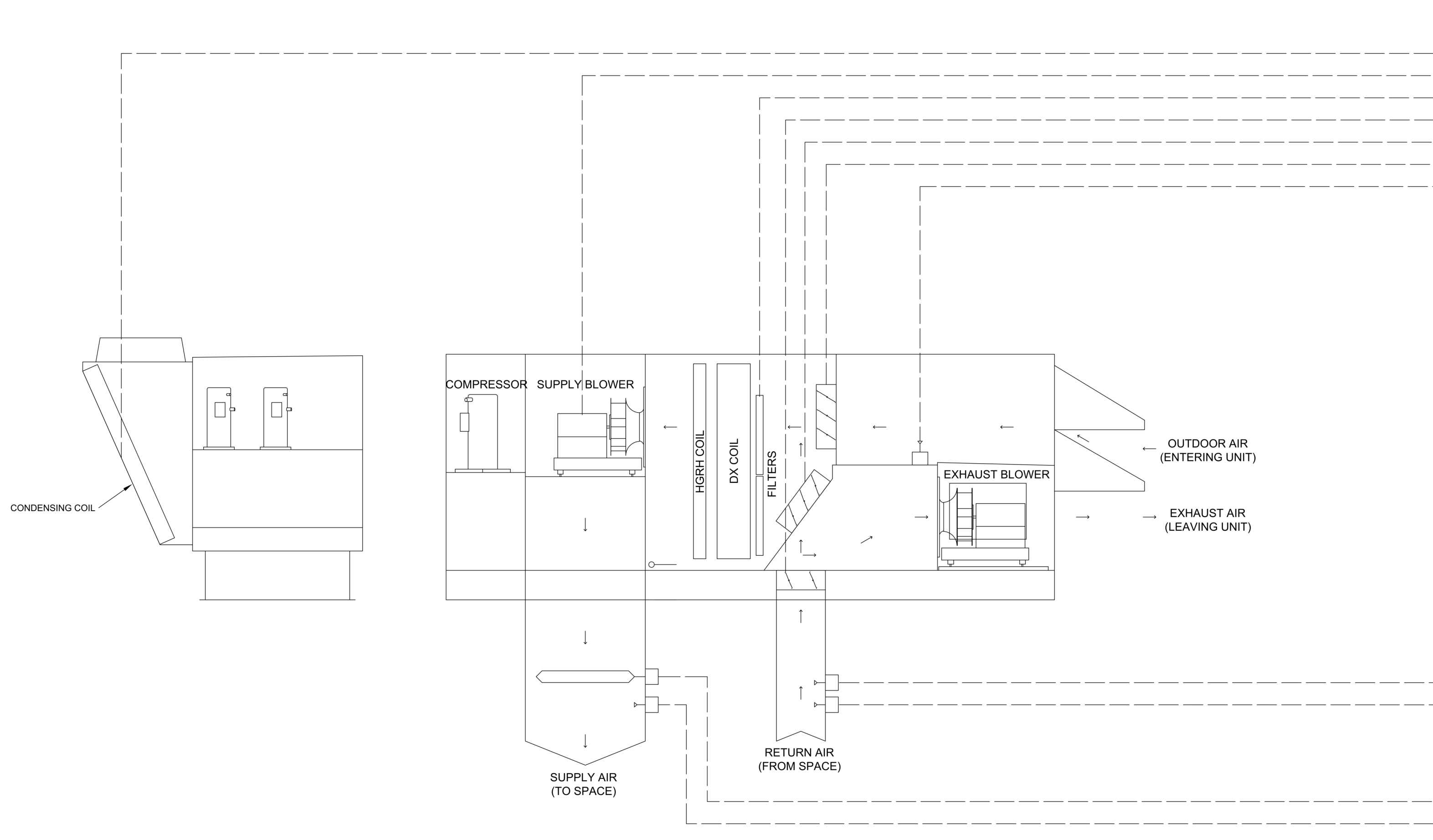
DEHUMIDIFICATION
 THE UNIT SHALL ENTER DEHUMIDIFICATION MODE IF THE RELATIVE HUMIDITY WITHIN THE SPACE FALLS OUTSIDE OF THE SETPOINT (50% RH). THE CONTROLLER WILL ADJUST THE LEAVING AIR TEMPERATURE OF THE COOLING COIL BETWEEN THE MINIMUM TEMPERATURE (50°F) AND THE MAXIMUM TEMPERATURE (55°F) TO SATISFY THE DESIRED SPACE RELATIVE HUMIDITY SET POINT. WHILE THIS IS OCCURRING, THE SUPPLY AIR TEMPERATURE IS MAINTAINED BY MODULATING THE HOT GAS REHEAT VALVE TO MAINTAIN THE TEMPERATURE SET POINT OF THE AIRSTREAM.

SUPPLY FAN VFD SEQUENCE
 ALL THREE DOAS UNITS SHALL BE CONFIGURED TO OPERATE AT CONSTANT VOLUME SUCH THAT THE SUPPLY FANS OPERATE AT A CONSTANT SPEED BASED ON A CONSTANT VOLUME SET POINT AS SPECIFIED IN THE MECHANICAL EQUIPMENT SCHEDULES.

EXHAUST FAN VFD SEQUENCE
 ALL THREE DOAS UNITS SHALL BE CONFIGURED TO OPERATE AT CONSTANT VOLUME SUCH THAT THE EXHAUST FANS OPERATE AT A CONSTANT SPEED BASED ON A CONSTANT VOLUME SET POINT AS SPECIFIED IN THE MECHANICAL EQUIPMENT SCHEDULES.

DEDICATED OUTDOOR AIR SYSTEM INTERFACE POINTS LIST

CONDENSER FROSTAT
SUPPLY FAN CONTROL
DIRTY FILTER SENSOR
RETURN AIR DAMPER POSITION
RECIRCULATION AIR DAMPER POSITION
OUTDOOR AIR DAMPER POSITION
OUTDOOR AIR TEMPERATURE SENSOR



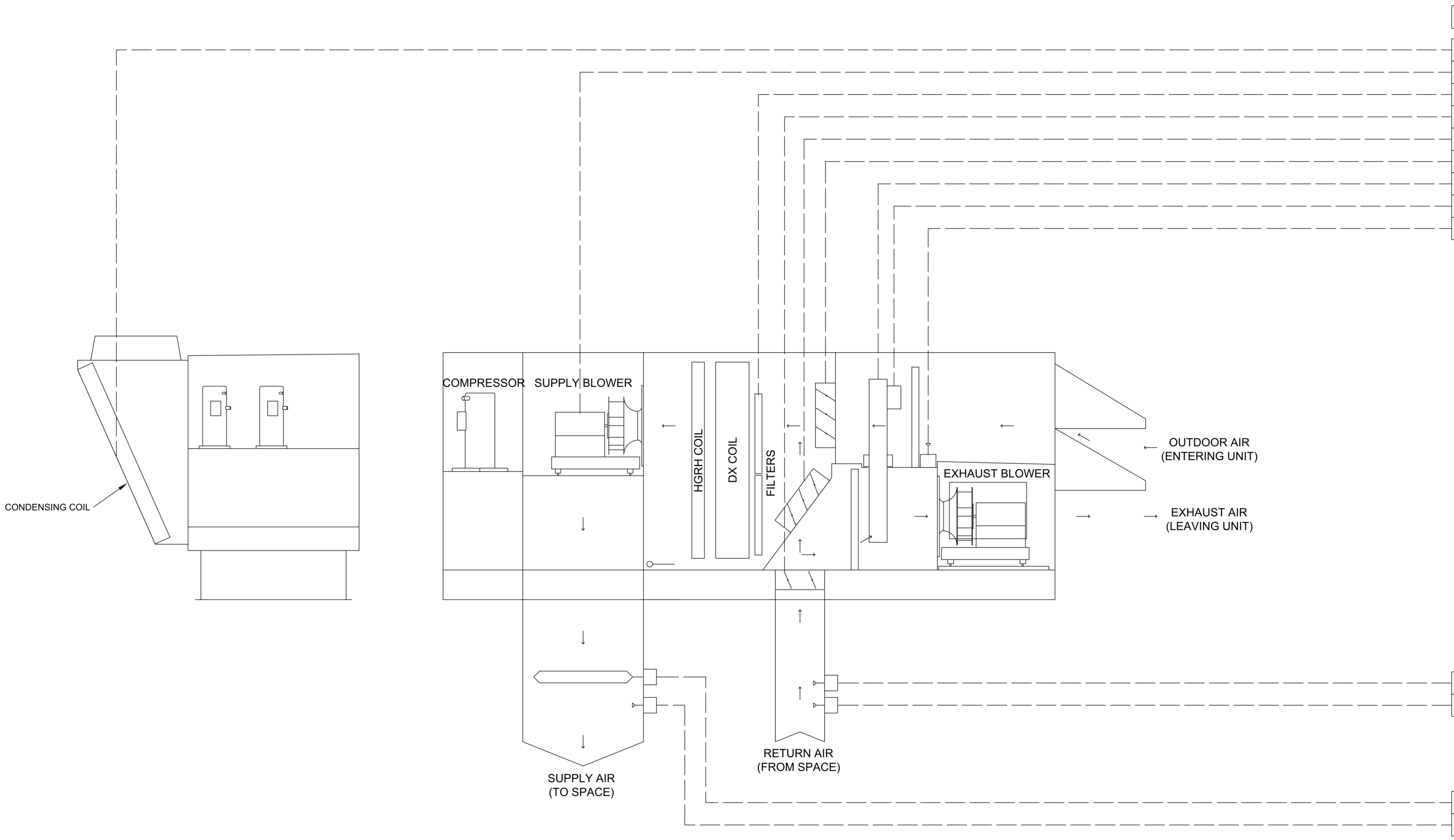
SMOKE DETECTOR
RETURN AIR TEMPERATURE SENSOR

UV FILTRATION
SUPPLY AIR TEMPERATURE SENSOR

1 DEDICATED OUTDOOR AIR SYSTEM - CONTROL DIAGRAM
 SCALE: NTS
 DOAS-1

DEDICATED OUTDOOR AIR SYSTEM INTERFACE POINTS LIST

CONDENSER FROSTAT
SUPPLY FAN CONTROL
DIRTY FILTER SENSOR
RETURN AIR DAMPER POSITION
RECIRCULATION AIR DAMPER POSITION
OUTDOOR AIR DAMPER POSITION
MODULATING ENERGY WHEEL ECONOMIZER VFD
WHEEL BYPASS DAMPER POSITION
OUTDOOR AIR TEMPERATURE SENSOR



SMOKE DETECTOR
RETURN AIR TEMPERATURE SENSOR

UV FILTRATION
SUPPLY AIR TEMPERATURE SENSOR

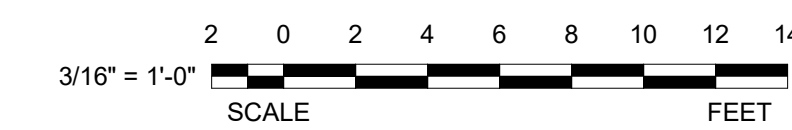
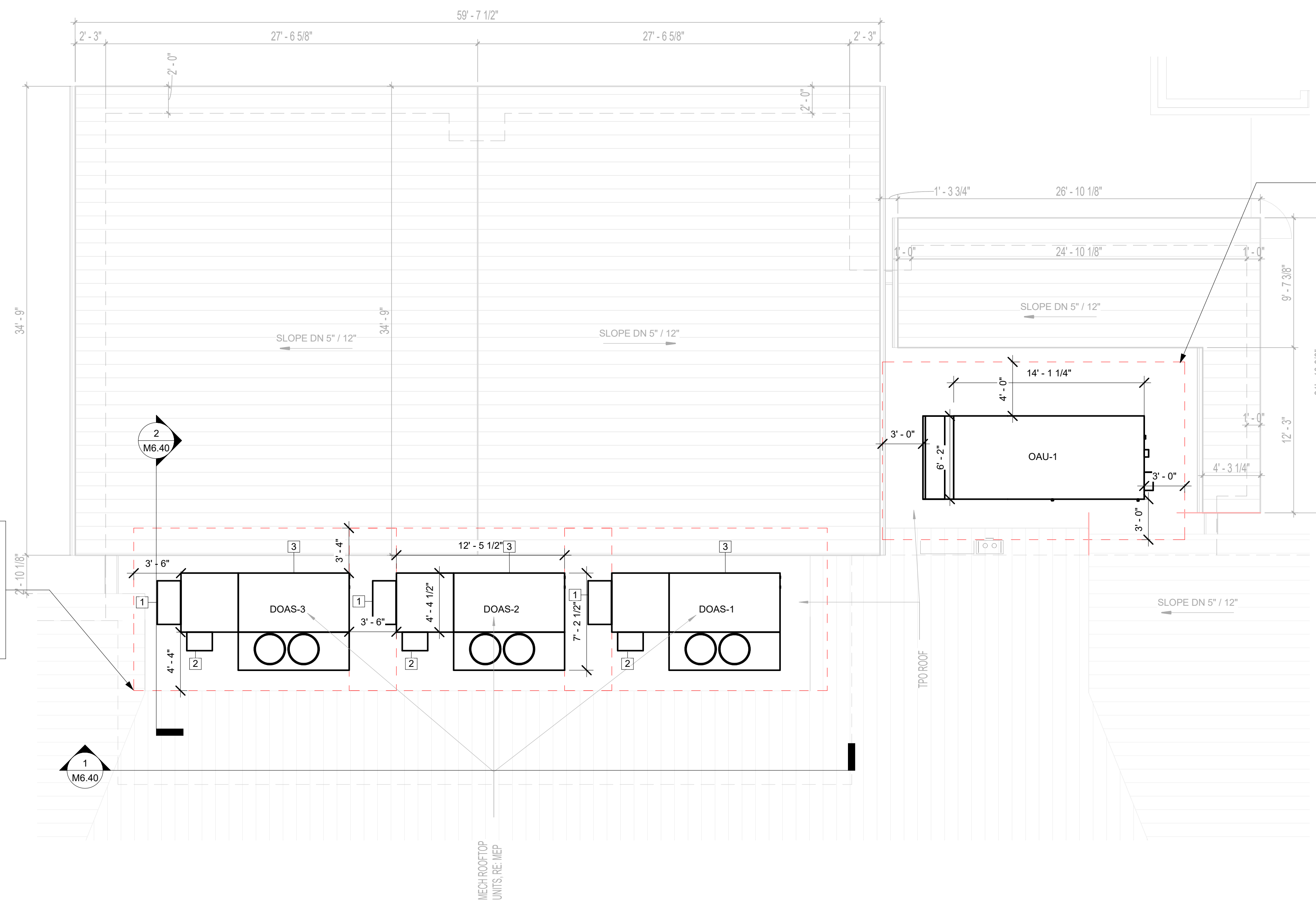
2 DEDICATED OUTDOOR AIR SYSTEM - CONTROL DIAGRAM
 SCALE: NTS
 DOAS-2, DOAS-3

ROOF PENETRATIONS

ALL ROOF PENETRATIONS SHALL BE PROPERLY FLASHED AND SEALED PER THE ARCHITECTURAL SPECIFICATIONS. INSULATE ALL DUCTWORK EXPOSED TO THE ELEMENTS TO R-8 MINIMUM. CONTRACTOR TO PREPARE A FLASHING AND SEALING SKETCH FOR PENETRATIONS FOR SUBMISSION TO THE ENGINEER PRIOR TO FABRICATION.

DASHED RED LINES INDICATE EQUIPMENT CLEARANCE AREAS.
NOTE:
 DOAS-1, DOAS-2, AND DOAS-3 WILL NEED TO BE MOUNTED ON RAISED PLATFORMS TO ACCOMMODATE DUCT CONNECTIONS ON THE BOTTOMS OF THE UNITS (SEE KEYNOTES ON M6.40).

DASHED RED LINES INDICATE EQUIPMENT CLEARANCE AREAS.
NOTE:
 OAU-1 IS AN EXISTING UNIT WHICH SHALL BE RELOCATED TO THIS LOCATION.



KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	OUTDOOR AIR INLET (SEE OUTDOOR AIRFLOW VALUES ON M1.50).
2	EXHAUST AIR OUTLET (SEE EXHAUST AIRFLOW VALUES ON M1.50).
3	DISCHARGE CONDENSATE (3/4 INCH DIAMETER PIPE, 1/4 INCH SLOPE PER FOOT) DIRECTLY ONTO ROOF SURFACE AT LEAST 1 FOOT AWAY FROM BASE OF UNIT.

MECHANICAL LEGEND:	
SUPPLY DUCT	
RETURN DUCT	
EXHAUST DUCT	
FRESH AIR DUCT	
FLEXIBLE DUCT	
LINEAR DIFFUSER/REGISTER	
SUPPLY DIFFUSER	
RETURN GRILLE/REGISTER	
EXHAUST GRILLE/REGISTER	
HUMIDISTAT LOCATION	(H)
THERMOSTAT LOCATION	(T)

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 HVAC EQUIPMENT LAYOUTS
 & CONDENSATE DRAIN
 Drawing No.

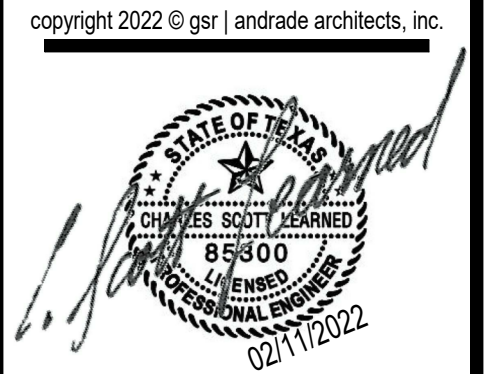
M3.10



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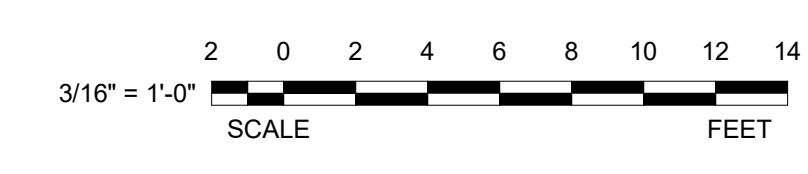
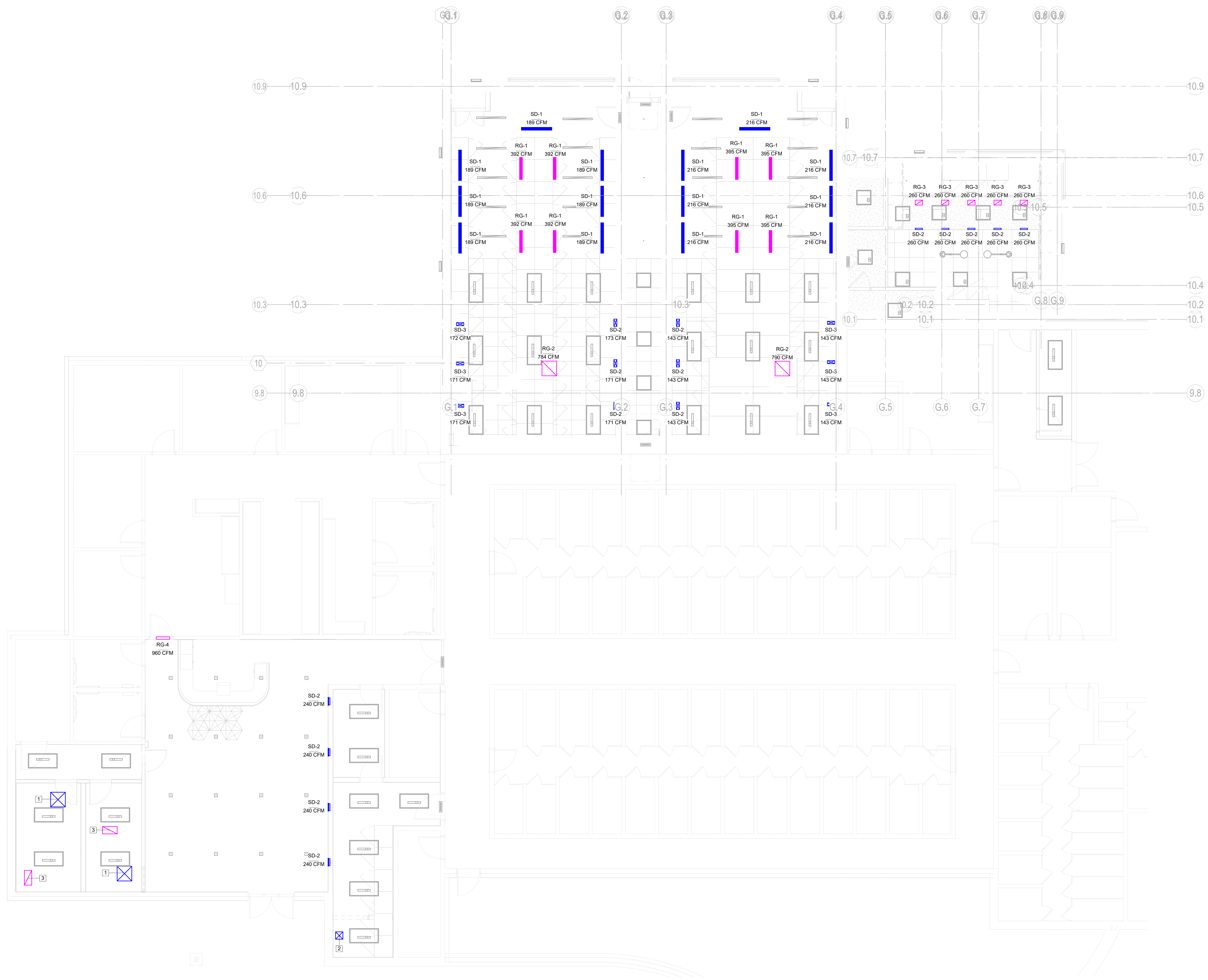


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 Sheet Title:
 HVAC DIFFUSER &
 BALANCING LAYOUTS
 Drawing No.

M4.10

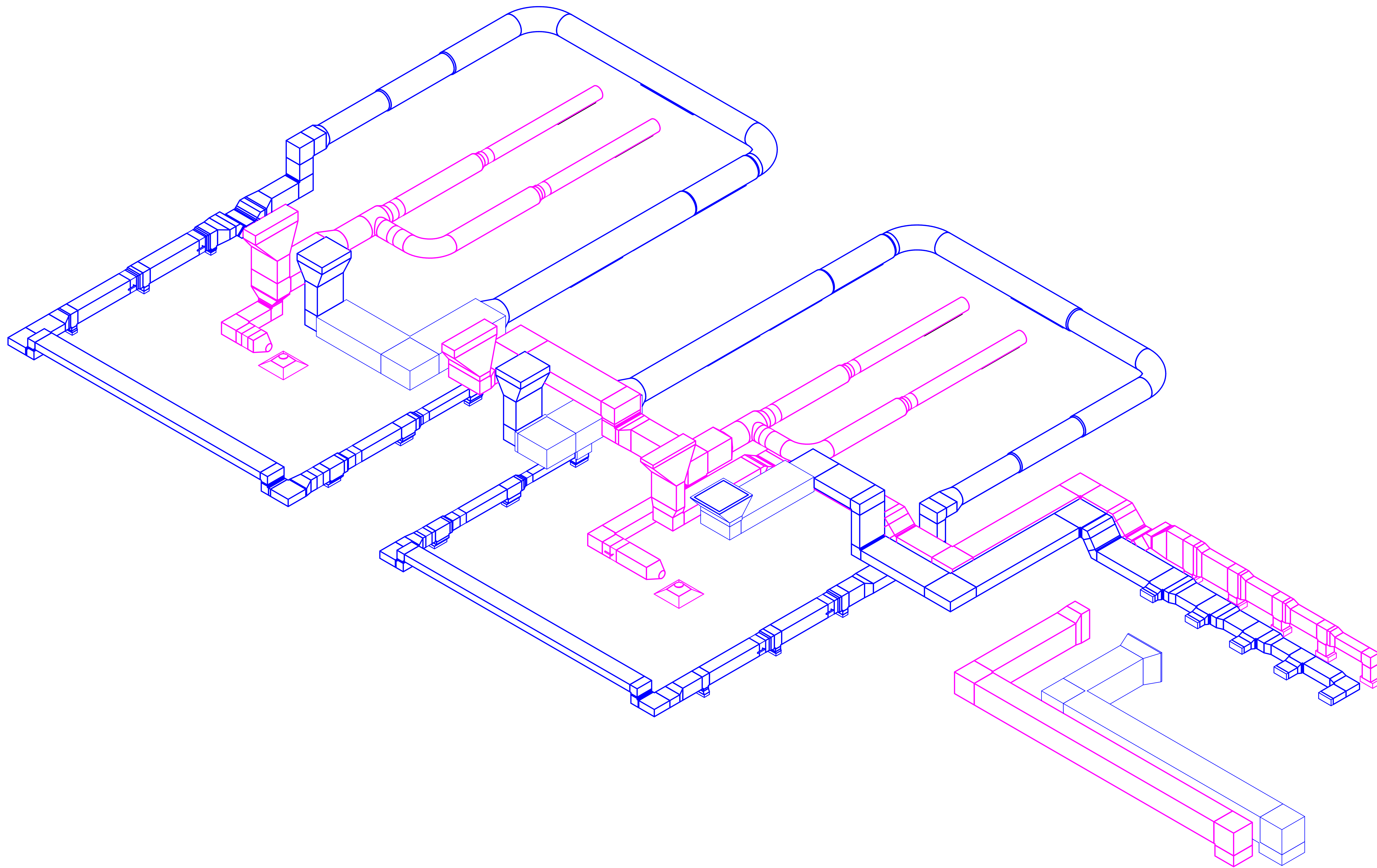


KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	EXISTING 440 CFM SUPPLY GRILLE.
2	EXISTING 100 CFM SUPPLY GRILLE.
3	EXISTING 420 CFM RETURN GRILLE.

MECHANICAL LEGEND:

SUPPLY DUCT	
RETURN DUCT	
EXHAUST DUCT	
FRESH AIR DUCT	
FLEXIBLE DUCT	
LINEAR DIFFUSER/REGISTER	
SUPPLY DIFFUSER	
RETURN GRILLE/REGISTER	
EXHAUST GRILLE/REGISTER	
HUMIDISTAT LOCATION	
THERMOSTAT LOCATION	



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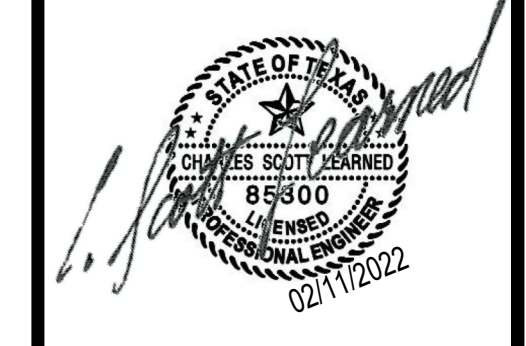


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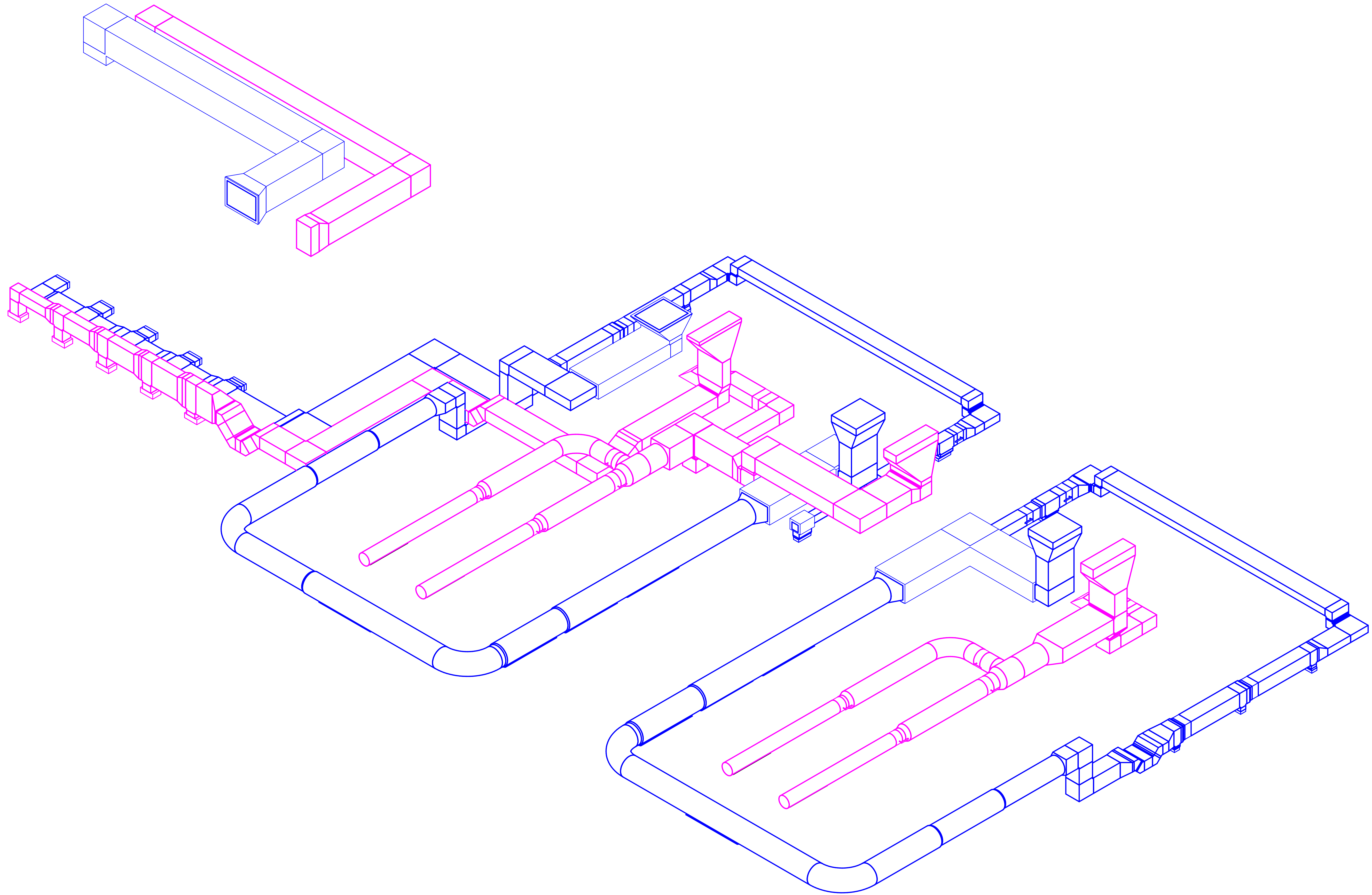


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 Sheet Title:
 MECHANICAL ISOMETRIC
 VIEW I
 Drawing No.

M5.10



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Checked By:
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Sheet Title:
 MECHANICAL ISOMETRIC
 VIEW II

Drawing No.



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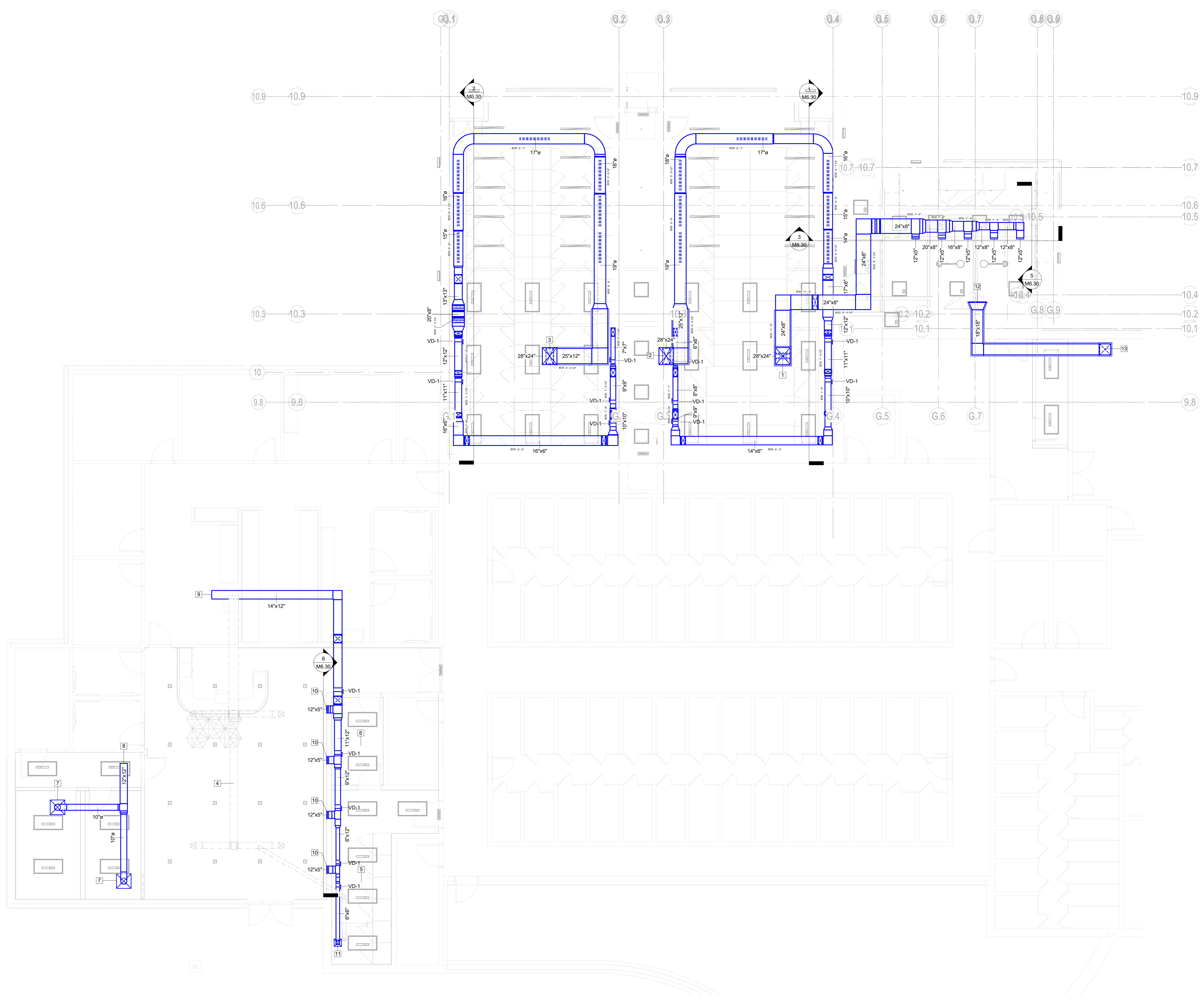


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 Sheet Title:
 OVERVIEW HVAC SUPPLY
 DRAWINGS
 Drawing No.

M6.10

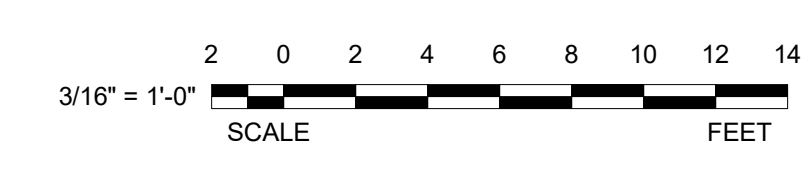


KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	SUPPLY AIR DOWN FROM DOAS-1.
2	SUPPLY AIR DOWN FROM DOAS-2.
3	SUPPLY AIR DOWN FROM DOAS-3.
4	EXISTING SUPPLY DUCT AND DIFFUSERS SERVING THE LOBBY ARE TO BE DEMOLISHED.
5	EXISTING DUCTWORK AND REGISTERS SERVING THE CAT COLONY SPACE ARE TO REMAIN IN PLACE.
6	EXISTING DUCTWORK AND REGISTERS SERVING THE CAT MEET & GREET SPACE ARE TO REMAIN IN PLACE.
7	EXISTING SUPPLY DIFFUSER SHALL BE RELOCATED AS ILLUSTRATED. EXTEND EXISTING 10" SUPPLY DUCT AS SHOWN HERE.
8	EXISTING SUPPLY DUCT TO FC-1.
9	NEW SUPPLY DUCT TO CONNECT TO FC-2 AT THIS LOCATION.
10	INSTALL NEW 240 CFM SIDE WALL SUPPLY GRILLE AT THIS LOCATION TO SERVE THE LOBBY SPACE.
11	CONNECT NEW SUPPLY DUCT INTO EXISTING 100 CFM SUPPLY DIFFUSER.
12	SUPPLY AIR OUT FROM OAU-1.
13	CONNECT NEW 18"X18" SUPPLY DUCT INTO EXISTING 18"X18" SUPPLY DUCT AT THIS LOCATION.

MECHANICAL LEGEND:

SUPPLY DUCT	
RETURN DUCT	
EXHAUST DUCT	
FRESH AIR DUCT	
FLEXIBLE DUCT	
LINEAR DIFFUSER/REGISTER	
SUPPLY DIFFUSER	
RETURN GRILLE/REGISTER	
EXHAUST GRILLE/REGISTER	
HUMIDISTAT LOCATION	
THERMOSTAT LOCATION	





CONSTRUCTION DOCUMENTS

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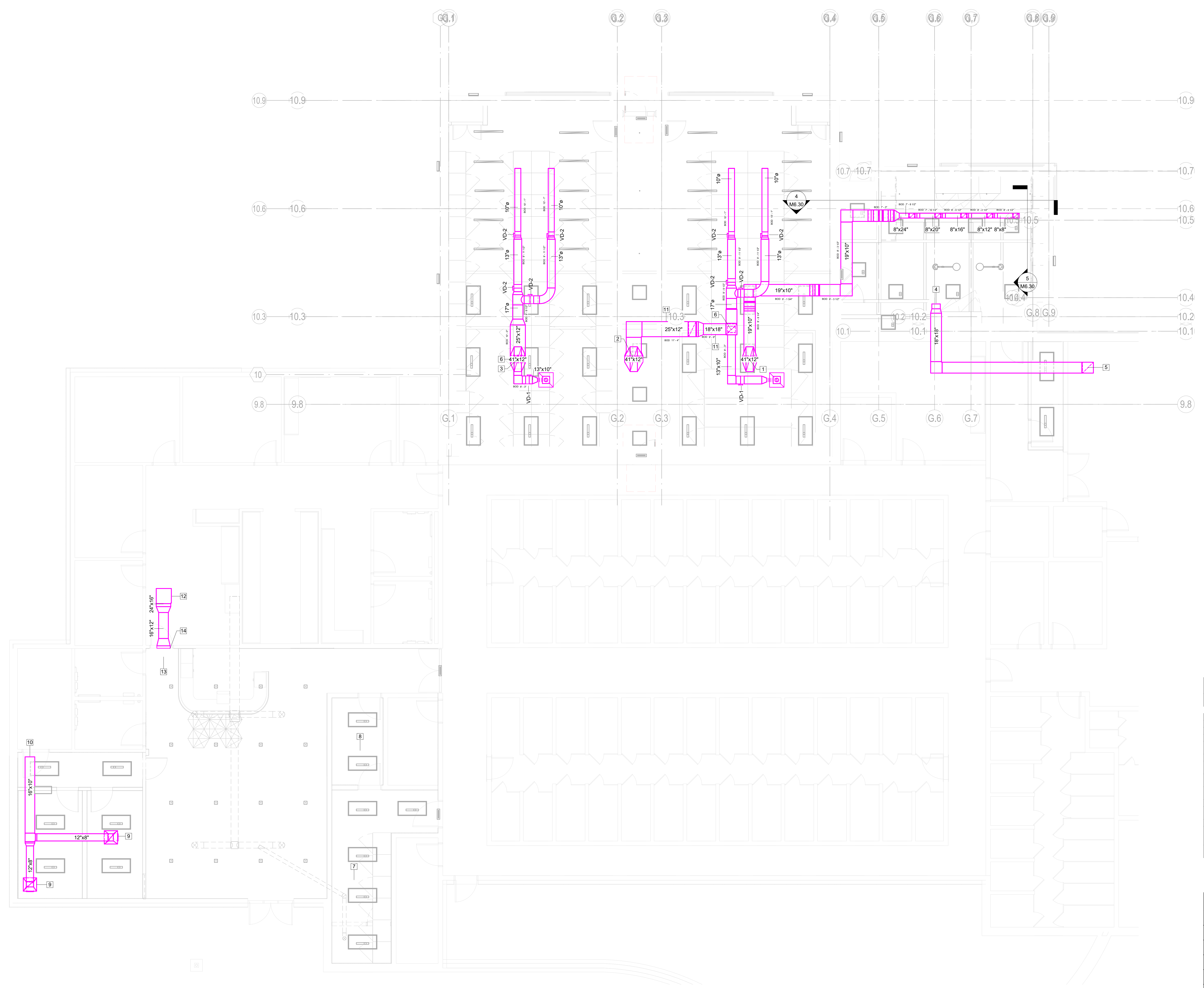


Revisions:

REV.	DATE	TITLE

Date:
 CONSTRUCTION DOCS
 02/11/2022
 Project No.
 MESQU TX
 Drawn By:
 Author
 Checked By:
 Checker
 Sheet Title:
 OVERVIEW HVAC RETURN
 DRAWINGS
 Drawing No.

M6.20



KEYNOTE LEGEND

KEY VALUE	KEYNOTE TEXT
1	RETURN AIR UP TO DOAS-1.
2	RETURN AIR UP TO DOAS-2.
3	RETURN AIR UP TO DOAS-3.
4	RETURN AIR OUT FROM OAU-1.
5	CONNECT NEW 18"x18" RETURN DUCT INTO EXISTING 18"x18" RETURN DUCT AT THIS LOCATION.
6	DUCT TRANSITIONS UP INTO PLENUM ABOVE CEILING.
7	EXISTING DUCTWORK AND REGISTERS SERVING THE CAT COLONY SPACE ARE TO REMAIN IN PLACE.
8	EXISTING DUCTWORK AND REGISTERS SERVING THE CAT MEET & GREET SPACE ARE TO REMAIN IN PLACE.
9	EXISTING RETURN DIFFUSER SHALL BE RELOCATED AS ILLUSTRATED. EXTEND EXISTING 12"x8" RETURN DUCT AS SHOWN HERE.
10	EXISTING RETURN DUCT TO FC-1.
11	INSTALL MIRO 6-DS DUCT SUPPORT STAND FOR EXTERIOR RETURN DUCT AT THIS LOCATION.
12	EXISTING RETURN DUCT TO CONNECT TO FC-2 AT THIS LOCATION.
13	DEMOLISH EXISTING CEILING MOUNTED RETURN GRILLE AND REPLACE WITH SIDE WALL GRILLE AS SHOWN HERE. CONNECT TO EXISTING RETURN DUCT.
14	INSTALL NEW 240 CFM SIDE WALL SUPPLY GRILLE AT THIS LOCATION TO SERVE THE LOBBY SPACE.

MECHANICAL LEGEND:

SUPPLY DUCT	
RETURN DUCT	
EXHAUST DUCT	
FRESH AIR DUCT	
FLEXIBLE DUCT	
LINEAR DIFFUSER/REGISTER	
SUPPLY DIFFUSER	
RETURN GRILLE/REGISTER	
EXHAUST GRILLE/REGISTER	
HUMIDISTAT LOCATION	
THERMOSTAT LOCATION	





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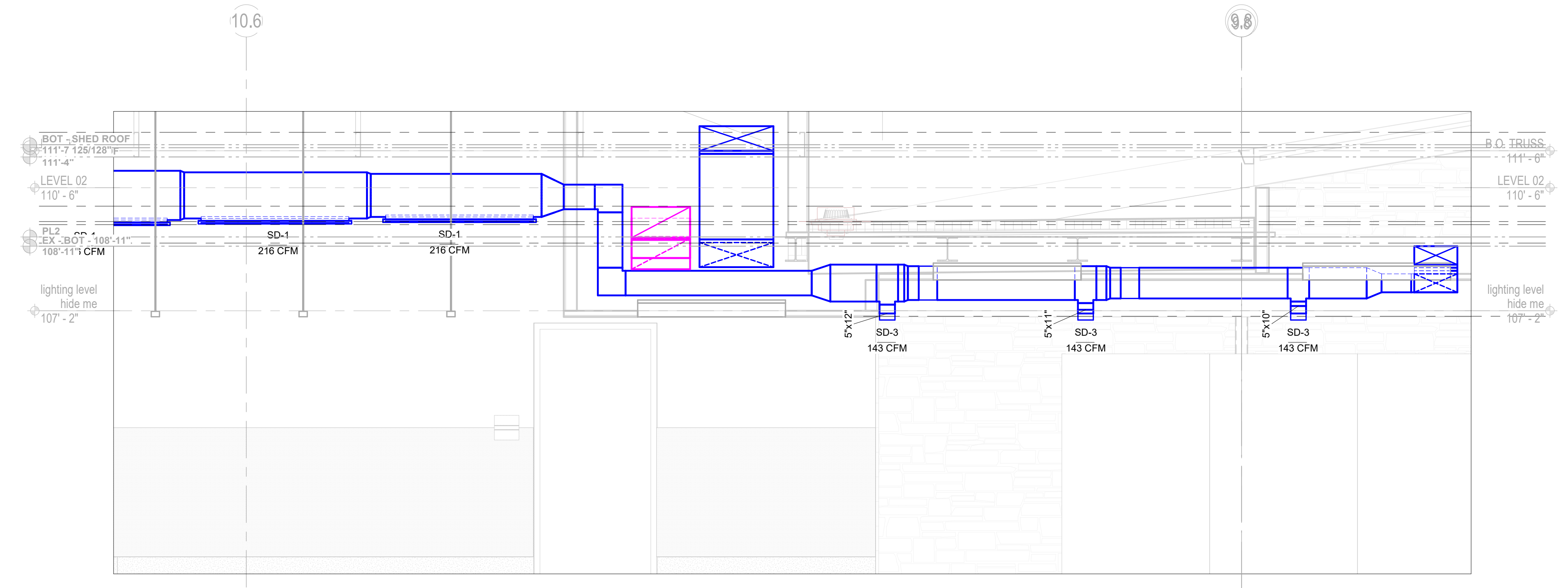
Project No:
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Drawn By:
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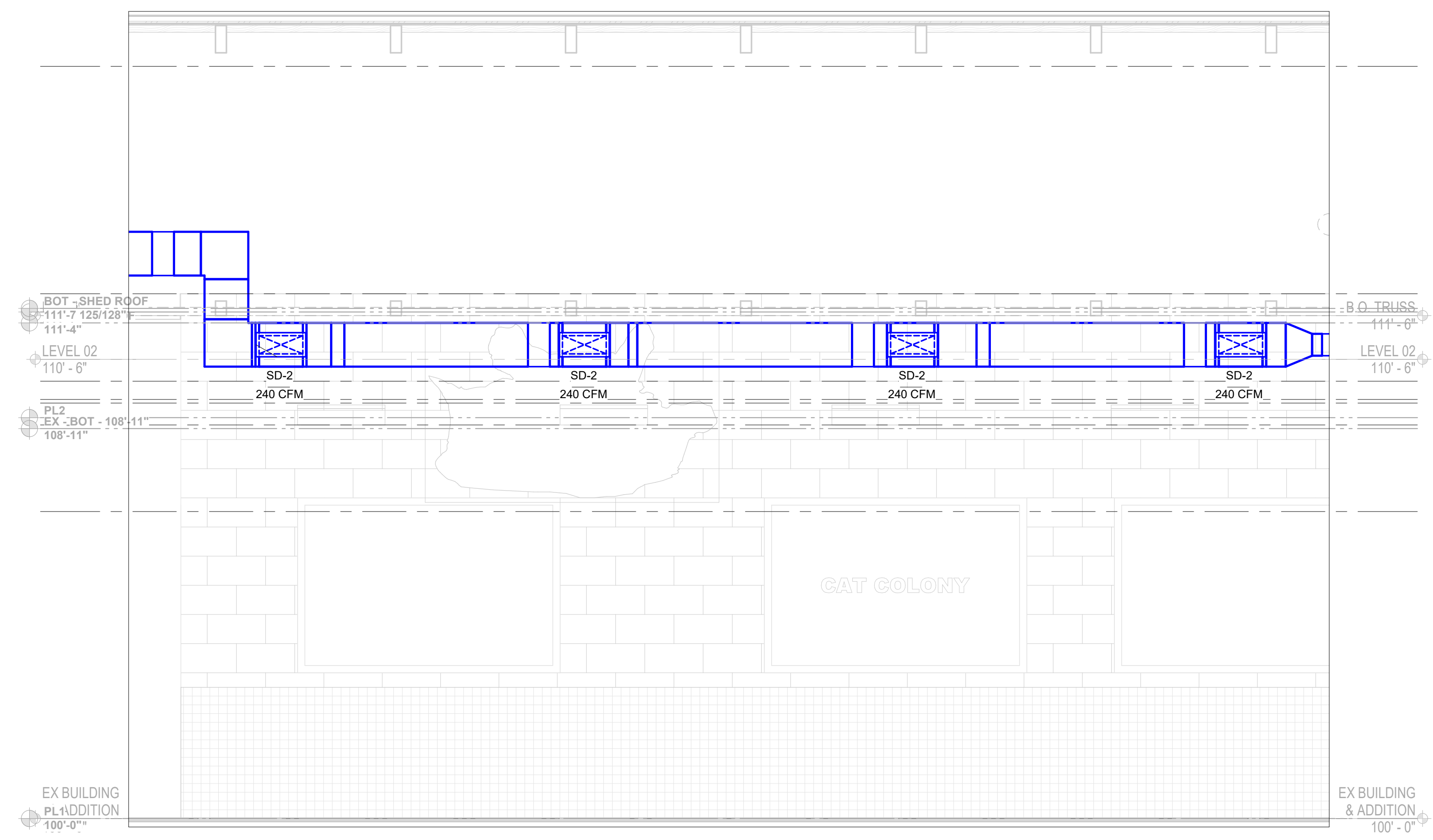
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Sheet Title:
 MECHANICAL SECTION
 VIEWS I

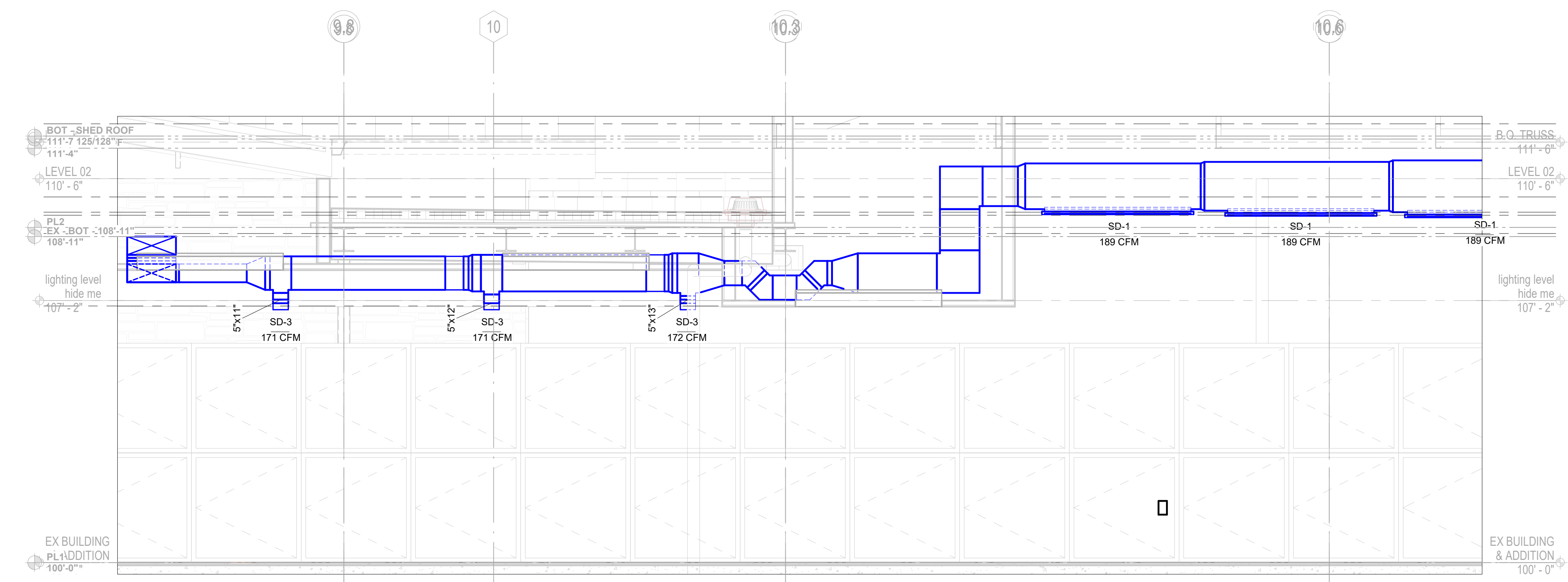
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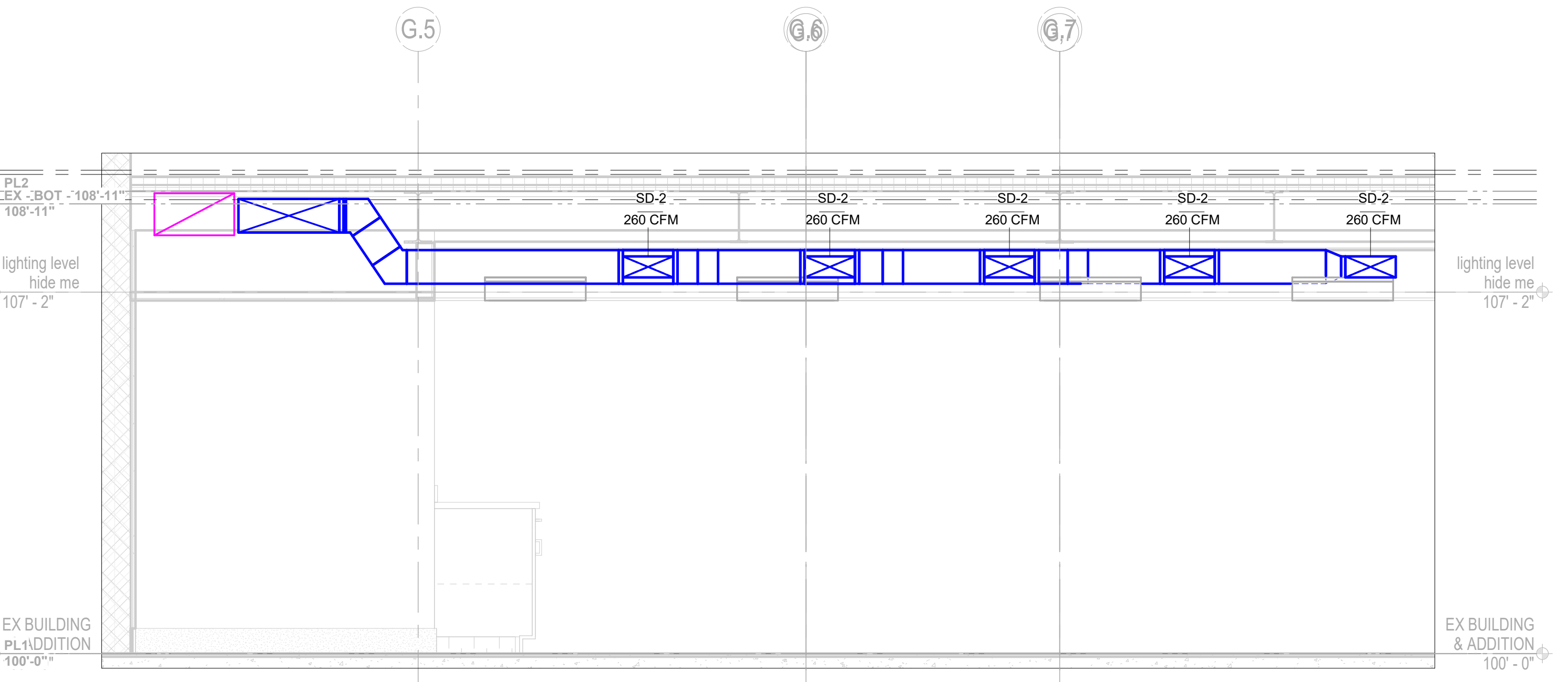
1 149 DOG ADOPTION DUCT DETAIL
 1/2" = 1'-0"



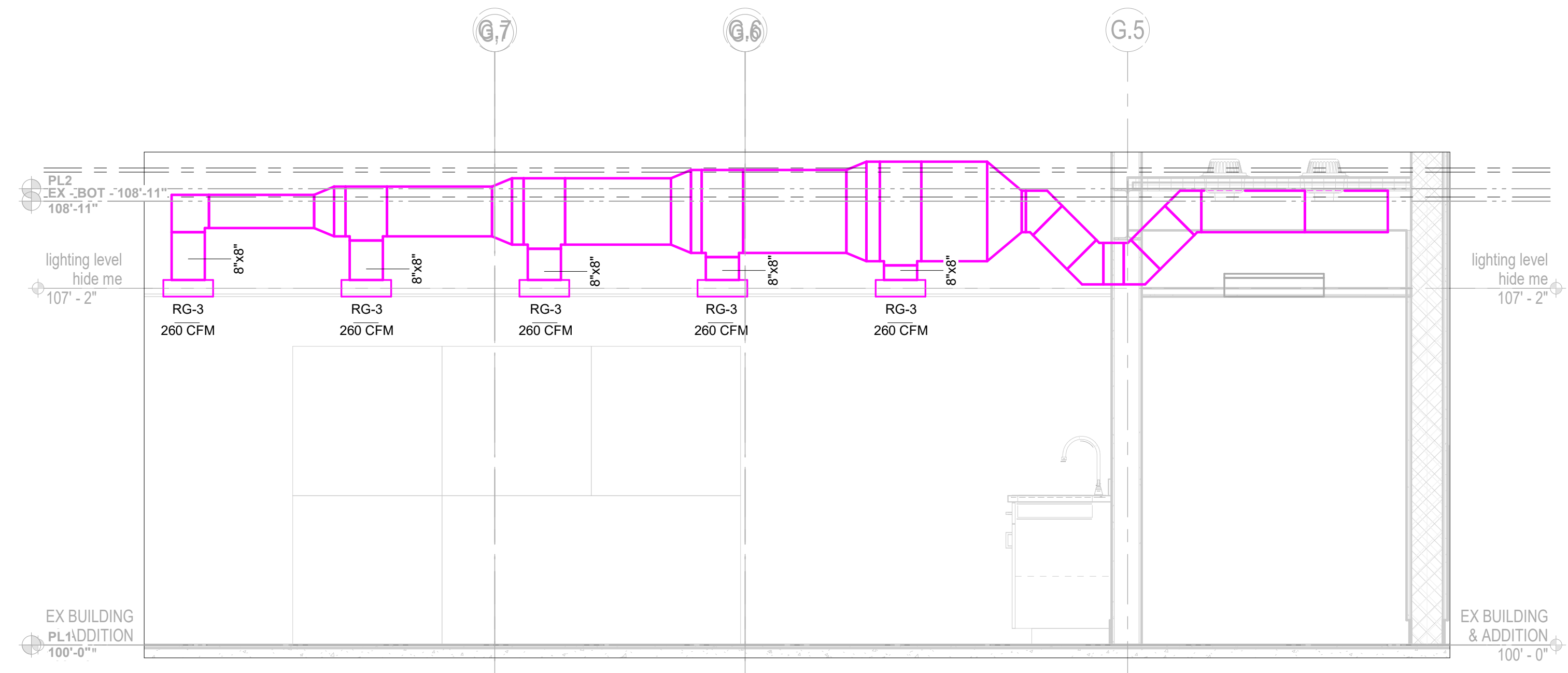
6 LOBBY SUPPLY DUCT DETAIL
 1/2" = 1'-0"



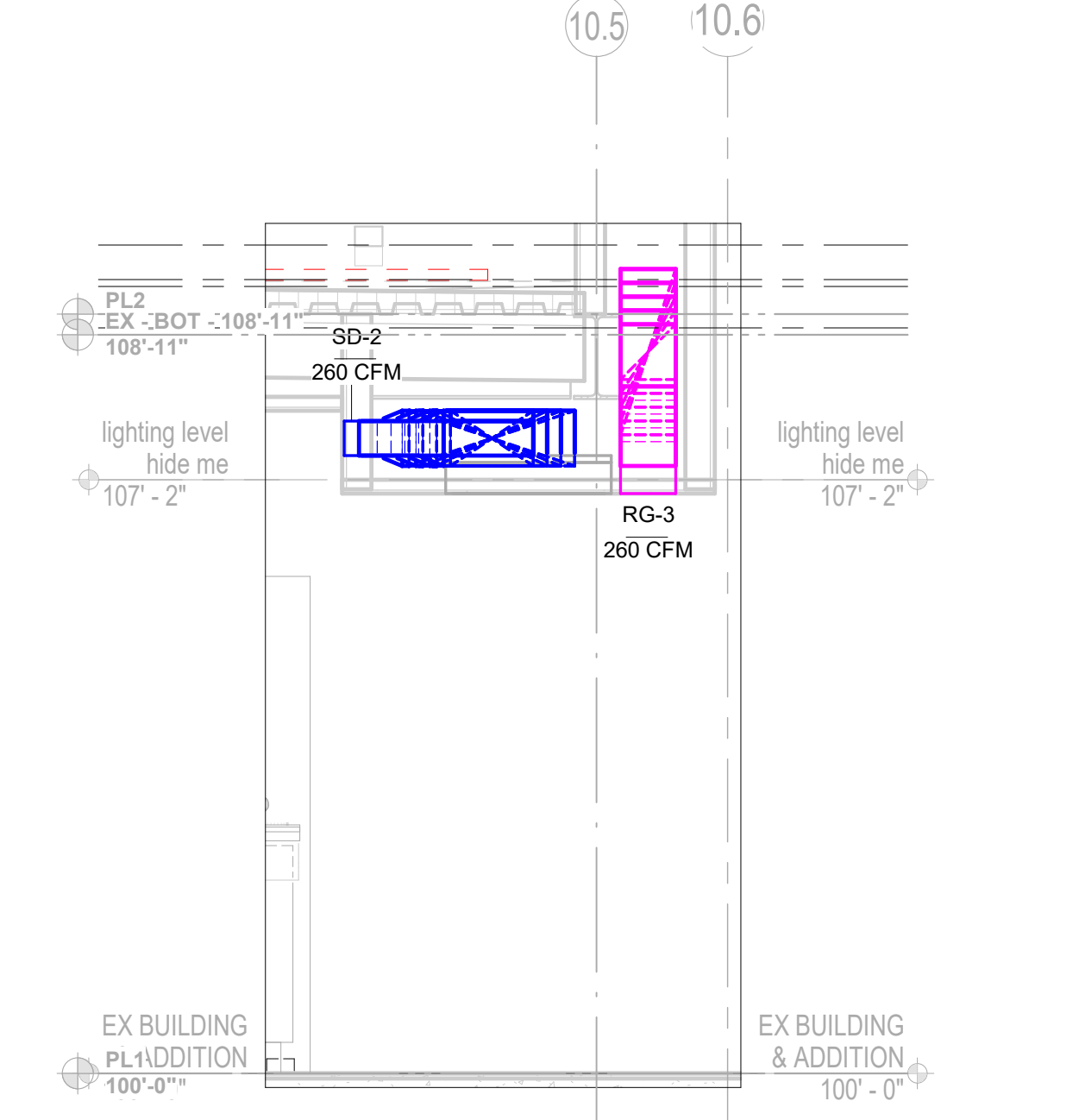
2 147 CAT ADOPTION DUCT DETAIL
 1/2" = 1'-0"



3 151 TREATMENT/LAB SUPPLY DUCT
 DETAIL
 1/2" = 1'-0"

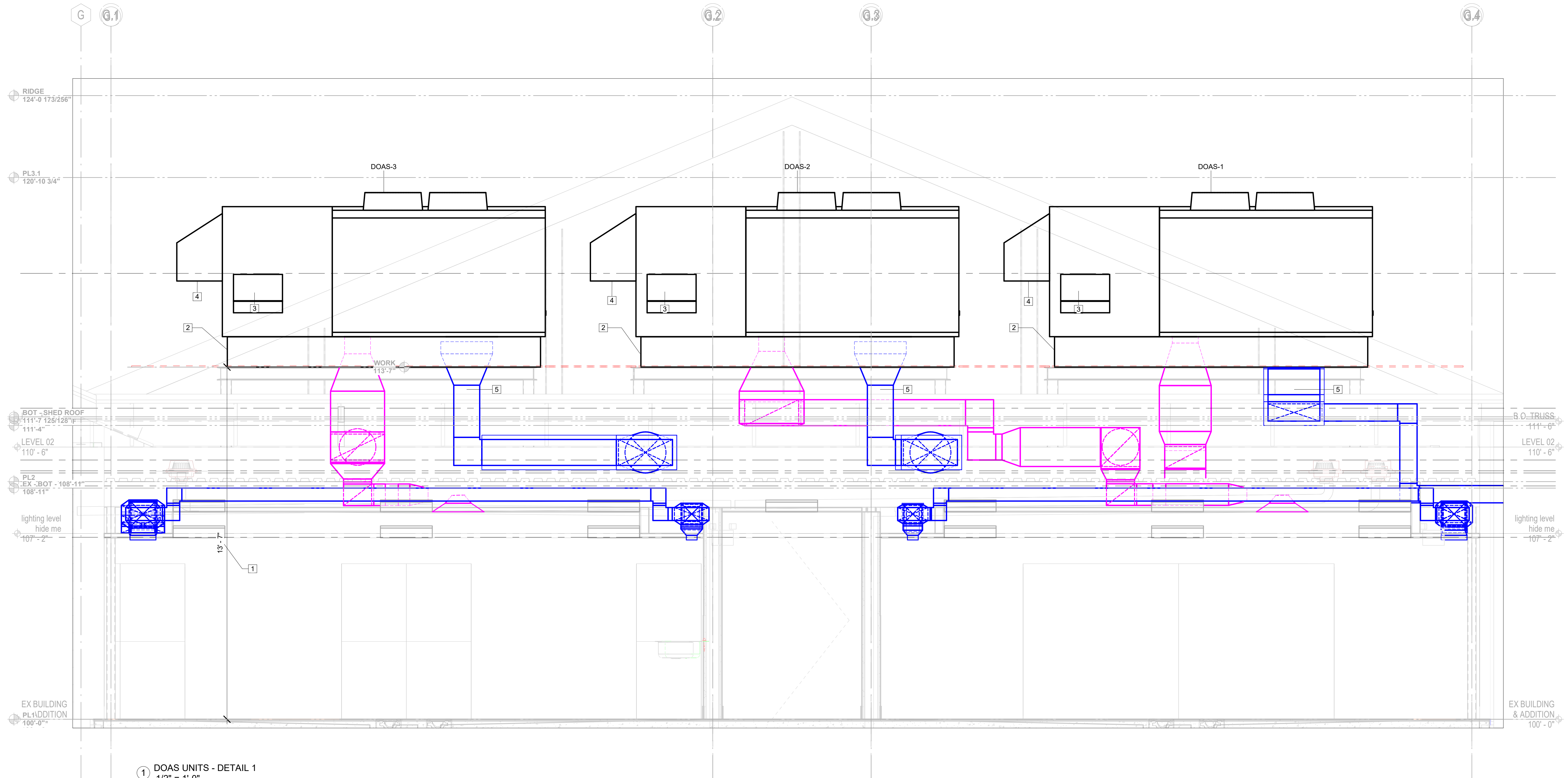


4 151 TREATMENT/LAB RETURN DUCT
 DETAIL
 1/2" = 1'-0"

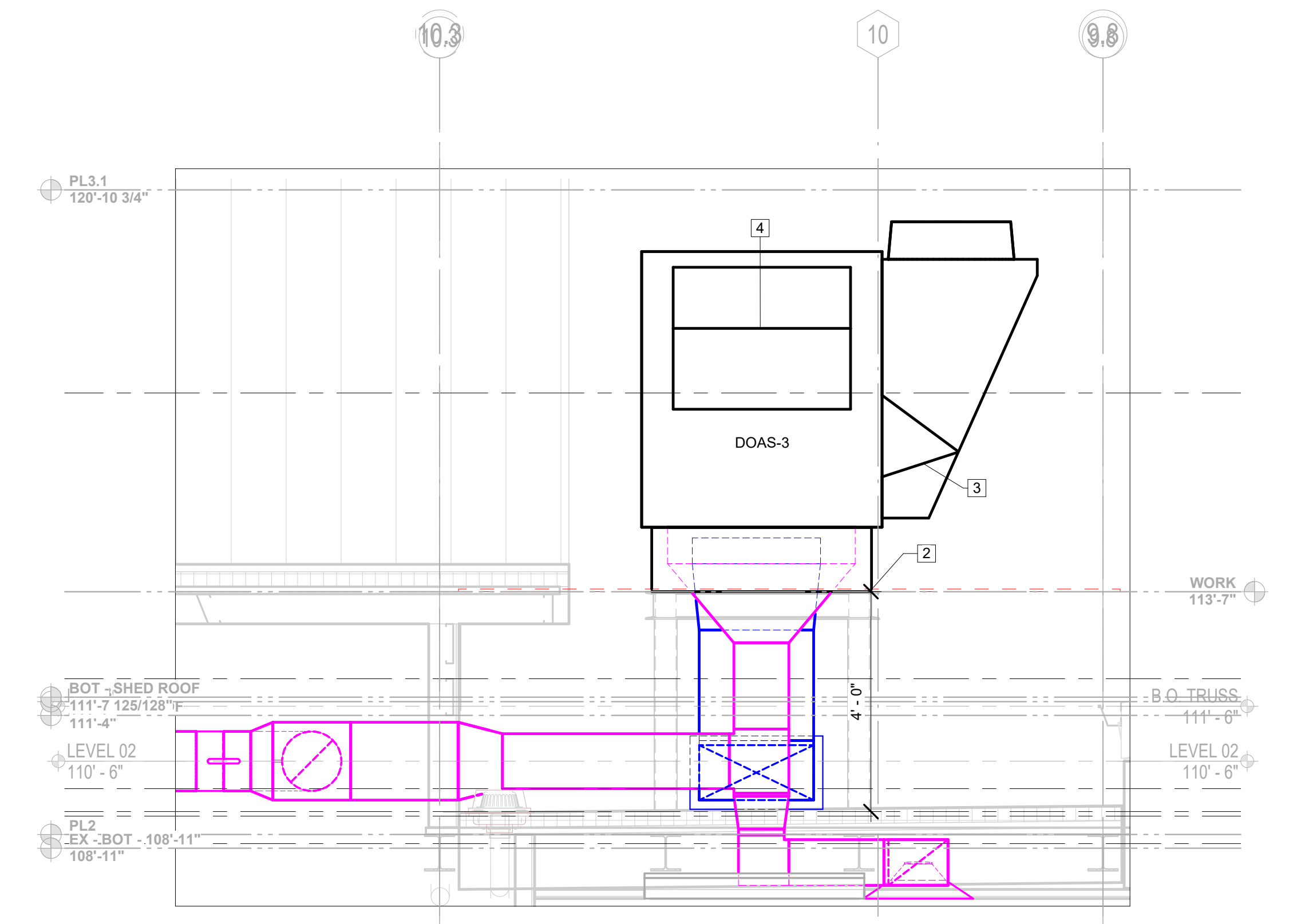


5 151 TREATMENT/LAB DUCT DETAIL
 1/2" = 1'-0"

KEYNOTE LEGEND	
KEY VALUE	KEYNOTE TEXT
1	UNITS SHALL BE INSTALLED AT THE INDICATED ELEVATION.
2	CONTRACTOR SHALL PROVIDE BUILT UP STEEL PLATFORMS TO RAISE UNITS SUFFICIENTLY HIGH IN ORDER TO MAKE THE ILLUSTRATED DUCT TRANSITIONS FROM THE BOTTOM OF THE UNITS TO THE CONDITIONED SPACES.
3	EXHAUST AIR OUTLET (SEE EXHAUST AIRFLOW VALUES ON M1.50).
4	OUTDOOR AIR INLET (SEE OUTDOOR AIRFLOW VALUES ON M1.50).
5	MOUNT AERAPY UV FILTRATION IN THE SUPPLY DUCT AT THIS LOCATION IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.



1 DOAS UNITS - DETAIL 1
1/2" = 1'-0"



2 DOAS UNITS - DETAIL 2
1/2" = 1'-0"

Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149



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Author

Checked By:
Checker

Sheet Title:
MECHANICAL SECTION
VIEWS II

Drawing No.

M6.40

ELECTRICAL SCOPE OF WORK

GENERAL:

THIS SCOPE OF WORK REPRESENTS THE GENERAL REQUIREMENTS FOR THE ELECTRICAL WORK AT THE **MESQUITE ANIMAL SHELTER & ADOPTION CENTER, IN MESQUITE, TX**. THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK ON THIS PROJECT. ALL QUESTIONS AND/OR DEVIATIONS FROM THIS DESIGN SHALL BE SUBMITTED IN WRITING FOR APPROVAL BY ENGINEER. THIS PROJECT INCLUDES A NEW ADDITION AND RENOVATIONS TO THE EXISTING LOBBY AS WELL AS RELOCATION OF AN EXISTING OUTSIDE AIR UNIT FOR WHICH REWIRING WILL BE REQUIRED. THE EXISTING MDP SHALL REMAIN IN PLACE BUT THE ADDITION OF A NEW PRIMARY DISCONNECT IS REQUIRED.

THE TERM "PROVIDE AND INSTALL" SHALL MEAN TO FURNISH AND INSTALL COMPLETELY. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SPECIFIED WITHIN THIS ELECTRICAL DRAWING SET. ADDITIONALLY, THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ANY EQUIPMENT, MATERIAL, ACCESSORY, AND/OR HARDWARE REQUIRED TO COMPLETE A FULLY OPERATIONAL ELECTRICAL SYSTEM. SUBMITTAL INFORMATION, AS OUTLINED BELOW, SHALL BE SUBMITTED AND APPROVED BEFORE THE RELATED INSTALLATION MAY COMMENCE. NO DEVIATIONS MAY BE MADE WITH OUT WRITTEN CONSENT FROM THE DESIGN LEARNED, INC.

THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL PERMIT FEES, AND LOCAL BUILDING OFFICIAL REQUIREMENTS. DURING CONSTRUCTION, THE CONTRACTOR MAY CONTACT DESIGN LEARNED, INC. (860) 889-7078. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING ALL SYSTEMS IN COMPLIANCE WITH **"NATIONAL ELECTRICAL CODE 2020 OF TEXAS"**.

ALL CONDUIT, WIRING, ENCLOSURES, AND FIXTURES ARE TO BE NEAT, CLEAN, LEVEL, PLUMB, AND ATTRACTIVE. ENCLOSURES, CIRCUITS, CONDUIT, PULL BOXES, GUTTER BOXES, AND CIRCUIT BREAKERS ARE TO BE CLEARLY LABELED WITH TYPED OR EMBOSSED LABELING SYSTEMS. DO NOT USE TAPE OR HANDWRITTEN TAGS FOR LABELS. PROVIDE ACCESS PANELS AS PART OF THE BASE FEE TO ANY OBSTRUCTED OR CONCEALED ENCLOSURES, PULL BOXES, SPLICES, GUTTER BOXES, OR OTHER TERMINATIONS AT ANY LOCATIONS THAT ARE OTHERWISE HIDDEN OR INACCESSIBLE.

ALL CONDUIT OR MC CABLE, WHETHER HUNG OR RUN IN CONDUIT, SHALL BE MOUNTED WITH HIGH QUALITY, MANUFACTURED CONDUIT OR CABLE SUPPORTS. ANY LOW GRADE HANGER SUCH AS PERFORATED HANGERS, PLASTIC TIES, ROPE, OR WIRE IS UNACCEPTABLE. CONDUIT SUPPORTS SHALL BE MANUFACTURED AND SUBMITTED FOR APPROVAL BEFORE PURCHASE.

ALL DEBRIS SHALL BE REMOVED FROM INSIDE AND AROUND ALL PANELS, ELECTRICAL EQUIPMENT, AND RECEPTACLES. ALL CONNECTIONS SHALL BE SECURELY FASTENED, AND ALL PANELS, CONDUIT, J-BOXES, AND WIRE SHALL BE NEATLY LABELED TO CREATE A NEAT AND CLEAN OPERATING SYSTEM.

CONTRACTOR TO VERIFY AVAILABILITY OF EQUIPMENT PRIOR TO BIDDING. SUBSTITUTIONS MAY BE ALLOWED PENDING ENGINEER APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

ELECTRICAL SERVICE MAIN:

THE ELECTRICAL CONTRACTOR IS REQUIRED TO COORDINATE WITH THE LOCAL UTILITY TO INSTALL A DISCONNECT FOR THE EXISTING THREE-PHASE SERVICE TO THE BUILDING. THE EXISTING MDP SHALL DISTRIBUTE POWER TO THE LIGHTING PANELS, MECHANICAL EQUIPMENT PANELS AND RECEPTACLE PANELS. FOR ALL CONDUIT AND WIRE SIZES REFER TO THE RISER DIAGRAM AND FEEDER SCHEDULE IN THE FOLLOWING SHEETS.

INTERIOR BUILDING LIGHTING:

LIGHTING THROUGHOUT THE BUILDING IS SPECIFIED AS LED LIGHTING WITH INTEGRAL LED DRIVERS. ANIMAL ENCLOSURE ROOMS TO HAVE 4 LEVEL SCENE CONTROLLERS. CONTRACTOR TO PROVIDE AND INSTALL LEVITON GREENMAX DRC DIGITAL SWITCH 4 BUTTON ENGRAVED WITH: OFF, RESTING, FEEDING, CLEANING DESIGNATIONS ON BUTTONS. PROVIDE WITH LEVITON DRC LINE VOLTAGE ROOM CONTROLLER IN EACH ENCLOSURE ROOM. SUBMIT ALL PRODUCTS FOR APPROVAL INCLUDING BUTTON DESIGNATIONS AND CONFIRMATION THAT LIGHT FIXTURE CONTROLS MATCH SWITCH VOLTAGE CONTROLS.

LIGHTING SCOPE OF WORK

ALL INTERIOR LIGHTING IS DESIGNED TO SUIT THE INDIVIDUAL ENVIRONMENTS. IN AREAS WHERE THE ENVIRONMENT IS WET, DAMP, OR HUMID THE LIGHTING FIXTURES WILL BE GASKETED AND SEALED IN OTHER AREAS GASKETED LIGHTING IS USED TO PREVENT HAIR ACCUMULATION OR AVOID BACTERIAL CONTAMINATION. ALL INTERIOR LIGHT WIRING SHALL BE ROUTED IN EMT OR MC CABLE. ALL BALLASTS ARE TO BE ENERGY EFFICIENT ELECTRONIC BALLASTS.

LIGHTING IN OFFICES AND LOBBY AREAS SHALL BE CONTROLLED BY OCCUPANCY SENSORS, WHERE REQUIRED BY CODE. ONLY USE PASSIVE INFRARED OCCUPANCY SENSORS. OCCUPANCY SENSORS UTILIZING ULTRASONIC SOUND ARE NOT PERMISSIBLE. THESE SENSORS OPERATE WITH A SOUND PRESSURE AND FREQUENCY THAT WILL CREATE STRESS IN ANIMALS AND CAUSE UNNECESSARY DISCOMFORT WITHIN THE BUILDING. OCCUPANCY SENSORS SHALL BE A LEARNING ADAPTABLE TYPE AND LOCATED AS SHOWN ON THE DRAWINGS. ALL ROOMS SHALL BE INDIVIDUALLY CONTROLLED BY SWITCHES OR OCCUPANCY SENSORS WHETHER THE SHOWN ON THE DRAWINGS OR NOT.

THE EXTERIOR LIGHTING SHALL BE POLE AND WALL MOUNTED PACKS. ALL LIGHTING AT EXIT DOORS SHALL BE SUPPLIED WITH BATTERY BACK UP TO PROVIDE EMERGENCY EGRESS LIGHTING. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK WHICH AUTOMATICALLY ADJUSTS FOR THE CHANGING SUNSET TIMES. THE TIME CLOCK SHALL BE PRE PROGRAMMED FOR THE COOPERSTOWN AREA SUNSET AND SUNRISE TIMES. EXTERIOR LIGHTING SHALL BE INSTALLED WITH NEMA 4R FITTINGS. CONTRACTOR TO INCLUDE COST AND INSTALLATION OF NEW HOMERUNS BACK TO THE NEW PANELBOARD. CONTRACTOR ALSO TO INCLUDE THE COST AND INSTALLATION OF ASTRONOMICAL TIME CLOCKS TO CONTROL SITE AND FACADE LIGHTING.

THE EMERGENCY LIGHTING SHALL BE SUPPLIED BY THE INTERIOR BUILDING LIGHTING WITH EMERGENCY BATTERY BACKUP AS INDICATED ON THE LIGHTING SCHEDULE. ALL LIGHTING SHOWN WITH THESE LIGHTS SHALL STAY LIT FOR 90 MINUTES. ALL EXIT LIGHTS SHALL HAVE BATTERY BACK UP AND SHALL BE ON ITS OWN CIRCUIT. ALL EXIT LIGHTING SHALL BE MOUNTED TO THE CEILING WITH NO OBSTRUCTIONS BLOCKING THE LIGHT OF SIGHT TO THE SIGN.

EMERGENCY SYSTEM SCOPE OF WORK

EXIT SIGNS SHALL BE INSTALLED AND LOCATED AS SHOWN TO LEAD PEOPLE QUICKLY AND SAFELY TO A MODE OF EGRESS AND BUILDING EXIT. ALL EXIT DOORS SHALL HAVE AN ADJACENT FIRE ALARM MANUAL PULL STATION INSTALLED. SMOKE DETECTORS SHALL BE INSTALLED ON CEILINGS IN GENERAL AREAS SUCH AS, WAITING AREAS, OFFICE AREAS, VESTIBULES, ENTRY AREAS, AND ANY OTHER SPACE NOT COVERED BY A HEAT DETECTOR.

THE FIRE ALARM SYSTEM IS AN EXISTING NOTIFIER SYSTEM. THE FIRE ALARM SYSTEM SHALL BE CONFIGURED FOR EARLY DETECTION TO ALLOW ANIMALS TO BE EVACUATED FROM DANGEROUS ZONES FIRST. ALL SYSTEM WIRES SHALL BE RUN IN CONDUIT AND MAY NOT BE RUN OUTSIDE OF CONDUIT TO DETECTORS OR NOTIFICATION DEVICES. ALL EGRESS DOORS SHALL HAVE MANUAL PULL STATIONS MOUNTED WITHIN 2 FEET OF THE DOOR BELOW ANY LIGHT SWITCHES ON THE WALL. ALL NOTIFICATION DEVICES SHALL HAVE A CANDELA RATING OF AT MINIMUM 15. ALL SMOKE DETECTOR BASES SHALL BE INSTALLED WITH CARBON MONOXIDE DETECTORS AND ALL HEAT DETECTORS SHALL HAVE STANDARD BASES.

FIRE-RATED PENETRATIONS

ALL PENETRATIONS THROUGH A FIRE-RATED ASSEMBLY MUST BE SEALED IN A MANNER WHICH MEETS OR EXCEEDS THE FIRE-RATING OF THE PENETRATED ASSEMBLY. PENETRATIONS MUST BE SEALED WITH A UL LISTED FIRESTOP SYSTEM AND SHALL COMPLY WITH ALL STATE AND LOCAL CODES.

CONTRACTOR SHALL SUBMIT A SHOP DRAWING INDICATING FIREWALLS TO BE PENETRATED AND SYSTEMS USED TO SEAL PENETRATIONS TO THE ENGINEER FOR REVIEW AND APPROVAL. FIRESTOP SYSTEMS SHALL BE IDENTIFIED BY UL CATALOG NUMBER (e.g. XHEZ - WL1001).

FIRE RATINGS

AT THE TIME OF DESIGN, THERE WERE NO FIRE WALLS INDICATED ON THE ARCHITECTURAL PLANS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING WHETHER ANY FIRE-RATED PARTITIONS ARE REQUIRED. IF FIRE-RATED PARTITIONS ARE REQUIRED, THE CONTRACTOR IS RESPONSIBLE FOR INCLUDING THE COST OF MAINTAINING THE RATING OF ANY PENETRATION TO THESE ASSEMBLIES IN THEIR WORK.

GENERAL CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO FIELD VERIFY COORDINATION OF DUCTWORK, LIGHTING, SPRINKLER HEADS, CEILING TILES, AND STRUCTURAL OBSTRUCTIONS. SUBMIT COORDINATED REFLECTED CEILING PLANS FOR APPROVAL PRIOR TO INSTALLATION, SCHEDULING, SEQUENCE OF INSTALLATION, EQUIPMENT CHANGES, CONTRACTOR PREFERENCES, AND ACCUMULATION OF VARIATIONS IN MEASUREMENT AND INSTALLATION ALL CONTRIBUTE TO CONFLICTS IN CONSTRUCTION.

DESIGN LEARNED, INC. WILL INSPECT INSTALLATION DURING AND AFTER CONSTRUCTION TO ENSURE CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT ALL SUB-CONTRACTORS ADHERE TO ALL DRAWINGS, SPECIFICATIONS, AND ADDENDA EXACTLY.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COST OF REWORK ASSOCIATED WITH ANY UNAPPROVED DEVIATIONS TO DESIGN. MANY ASPECTS OF OUR DESIGNS FIT CLOSELY, BE ESPECIALLY CAUTIOUS OF ELECTRICAL CONDUIT, PLUMBING PIPING, AND SPRINKLER LINES. THESE FREQUENTLY AND INAPPROPRIATELY ARE ROUTED IN THE FIELD THROUGH SPACES THAT HAVE BEEN RESERVED FOR DUCTWORK.

ATTENTION: SUBMITTALS ARE REQUIRED

DO NOT PURCHASE EQUIPMENT WITHOUT APPROVED SHOP DRAWINGS AND SUBMITTALS. WE WILL NOT APPROVE PAY REQUISITIONS WITHOUT SUBMITTALS. ANY COSTS INCURRED TO CORRECT PROBLEMS THAT COULD HAVE BEEN AVOIDED BY SUBMISSION OF SAID DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, EVEN IF SUCH CORRECTION IS OUTSIDE THE CONTRACTORS ORIGINAL CONTRACT RESPONSIBILITIES.

ELECTRICAL SUBMITTAL REQUIREMENTS

SUBMITTAL INFORMATION SHALL BE SUBMITTED AND APPROVED BEFORE THE RELATED INSTALLATION MAY COMMENCE. ANY DEVIATION IN DESIGN DURING THE INSTALLATION PROCESS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE INSTALLING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIVE COPIES OF THE FOLLOWING DOCUMENTS FOR APPROVAL:

1. MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT AND SUPPLIES TO BE PURCHASED AND/OR USED IN THIS PROJECT. THIS INCLUDES ANY CAULK, TAPE, OR BOXES. ANY ITEMS INSTALLED OR PLACED IN THE BUILDING MUST BE SUBMITTED FOR APPROVAL.
2. ELECTRICAL SHOP DRAWINGS SHALL BE SUBMITTED INDICATING ANY SUB-SLAB CONDUIT, ALL FIRE WALL PENETRATIONS, AND DEVIATIONS FROM DESIGN.
3. CIRCUITING AND PULL BOX SHOP DRAWINGS INDICATING DEVIATIONS FROM DESIGN, CHANGES IN FITTINGS AND ROUTING, PENETRATIONS, AND INTERFERENCES.
4. EQUIPMENT DATA INCLUSIVE OF SPECIFICATION, INSTALLATION, AND MAINTENANCE CATALOGS FROM THE MANUFACTURER.
5. MANUFACTURER SAFETY DATA SHEETS ON ALL ITEMS BEING SUPPLIED AND LEFT AT THE SITE AFTER COMPLETION. THIS INCLUDES ADHESIVES AND CHALKING MATERIALS.

SPECIFICATIONS

SPECIFICATIONS ARE PROVIDED IN A-SIZE FORMAT AND ARE PART OF THIS CONSTRUCTION DRAWING SET. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO READ AND UNDERSTAND ALL SPECIFICATIONS BEFORE BIDDING AND BEFORE BEGINNING WORK. CONTRACTORS WILL BE HELD TO THE SPECIFICATIONS AND DRAWINGS. WE WILL NOT APPROVE ANY CHANGES, REWORK, SUBSTITUTIONS, OR OMISSIONS DUE TO THE CONTRACTOR'S FAILURE TO FOLLOW THE SPECIFICATIONS.

NOTE

THESE DRAWINGS ARE BASED ON THE LATEST ARCHITECTURAL PLANS DATED 10/19/2021.

LIGHTING FIXTURE SCHEDULE

Type Mark	Description	Manufacturer	Model	VOLTS	Wattage	Count
A	2X4 TROFFER	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-MVOLT	120 V	39 W	8
A1	2X4 TROFFER	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-40K-ZT-MVOLT	120 V	39 W	12
A1E	2X4 TROFFER WITH EMERGENCY BATTERY	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-40K-ZT-MVOLT-E10W/LCP	120 V	39 W	6
AE	2X4 TROFFER WITH EMERGENCY BATTERY	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-MVOLT-E10W/LCP	120 V	39 W	7
B1	2X2 TROFFER	LITHONIA LIGHTING	CPX-2X2-3200LM-80CRI-35K-MVOLT	120 V	32 W	8
B1E	2X2 TROFFER	LITHONIA LIGHTING	CPX-2X2-3200LM-80CRI-35K-MVOLT-E10W/LCP	120 V	32 W	6
C	SUSPENDED LIGHTS	FINELITE	S19-P-ID-2E-V-835-OPEN-FC-10%	120 V	35 W	8
CE	SUSPENDED LIGHTS WITH EMERGENCY BATTERY	FINELITE	S19-P-ID-2E-V-835-OPEN-FC-10%-FAC CHO	120 V	35 W	12
EXIT	EXIT LIGHTS	Cooper Industries, Inc.	EUS81R	120 V		7
EXLT	CEILING MOUNT EXAM LIGHTS	SHORLINE	913.7000.03	120 V		2
L1	LOBBY PENDANT	USA1 LIGHTING	BLSD5-24C3-35K3-50-S-WH	120 V	24 W	16
L2	HOLLOW CORE LED (PENDANT)	LUMINIS	HC1600L4L30-29W-80CRI-4000K-120V-BKT	120 V		7
SL	SITE LIGHTING	LITHONIA LIGHTING	RADPT-P4-35K-SYM-MVOLT-PT4-DBLXD	120 V	48 W	3
W	WALL PACK EXTERIOR LIGHTS	Cooper Industries, Inc.	673 16'-WP-L3/835-UNV-MB-2HTB	120 V	19 W	7

SWITCH SCHEDULE

Type Mark	DESCRIPTION	MANUFACTURER	MODEL	COUNT
DS	DAYLIGHT CONTROL SENSOR	ACUITY CONTROLS	ncm adcx	3
D	DIMMER SWITCH	LEVITON	GreenMAX DRC	4
OS	OCCUPANCY SENSOR	LEVITON	ODS15-ID*	10
S	STANDARD SINGLE POLE	LEVITON	5601-2*	3
3	THREE WAY SWITCH	LEVITON	5603-2*	4
T	TIMER SWITCH	LEVITON	VPT24-1PZ	1

FIRE ALARM SCHEDULE

Description	Manufacturer	Model	Count
AUDIO/VISUAL ALARM	SYSTEM SENSOR	P2R	1
MANUAL PULL STATION	NOTIFIER	NOT-BG12LX	1
MULTICRITERIA SMOKE DETECTOR	NOTIFIER	NP-A100	6
SMOKE DETECTOR	SYSTEM SENSOR	NP-200	9
VISUAL ALARM	SYSTEM SENSOR	SR	5

RECEPTACLE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	COUNT
D	STANDARD DUPLEX RECEPTACLE	LEVITON	LEVITON 16352-* WITH 80301-S* WALLPLATE	120 V	10
EXLT	WALL MOUNT EXAM LIGHT	JUNCTION BOX		120 V	2
GFCI	GFCI DUPLEX RECEPTACLE	LEVITON	LEVITON GFNT2*(INCLUDE WALLPLATE)	120 V	3
HVAC	UV FILTRATION	JUNCTION BOX		120 V	4
QG	GFCI QUADRUPLUX RECEPTACLE	LEVITON	(2) LEVITON GFNT2-* WITH 80309-S-* WALLPLATE	120 V	2
RF	REFRIGERATOR	LEVITON	LEVITON 5015-* WITH 80704-* WALLPLATE	120 V	1
WP	WEATHERPROOF DUPLEX RECEPTACLE	LEVITON	LEVITON GFNT2-* WITH 5977-* WEATHER RESISTANT COVER	120 V	12

FEEDER SCHEDULE

NEC NFPA 70 TABLE	VOLTAGE	PHASE	MAIN (AMPS)	CONDUCTORS (QUANTITY)	WIRE SIZE	PVC SC 80
MDP TO PD1	208/120	3	200	ONE SET OF THREE	3-#3/0, 1-#4, 1-#4	3 INCH
MDP TO LP1	208/120	3	100	ONE SET OF THREE	3-#1, 1-#6, 1-#6	2 INCH
TEMPERATURE RATING OF CONDUCTOR EITHER 75°C or 60°C PER NEC 110.14(C)(1)(a) AND 110.14(C)(1)(b)						

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E1.10	ELECTRICAL SCOPE & SCHEDULE
E1.20	ELECTRICAL DETAILS & ABBREVIATIONS
E2.10	ELECTRICAL PANEL SCHEDULES I
E2.20	ONE LINE DIAGRAM
E3.10	POWER LAYOUTS
E4.10	LIGHTING & ILLUMINATED EXIT SIGN LAYOUTS
E4.20	LIGHTING PHOTOMETRICS
E4.30	SITE LIGHTING LAYOUT
E4.40	SITE LIGHTING PHOTOMETRICS
E4.50	DAYLIGHT AREAS
E5.20	FIRE ALARM FLOOR PLAN
E6.10	POWER ROOF

Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149

MESQUITE
TEXAS
Real. Texas. Flavor.

CONSTRUCTION
DOCUMENTS

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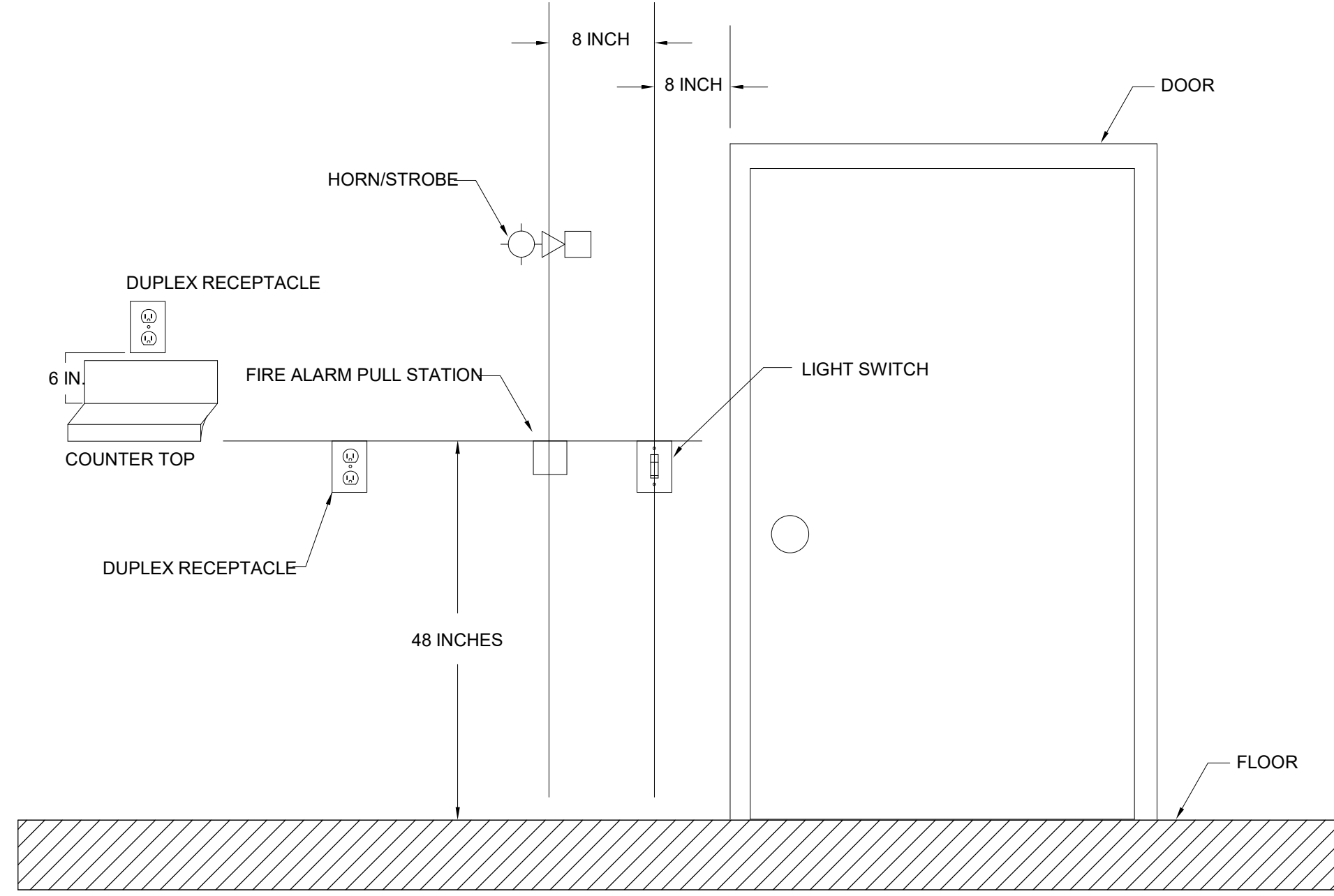
Drawn By:
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Checked By:
CSL

Sheet Title:
ELECTRICAL SCOPE &
SCHEDULE

Drawing No.

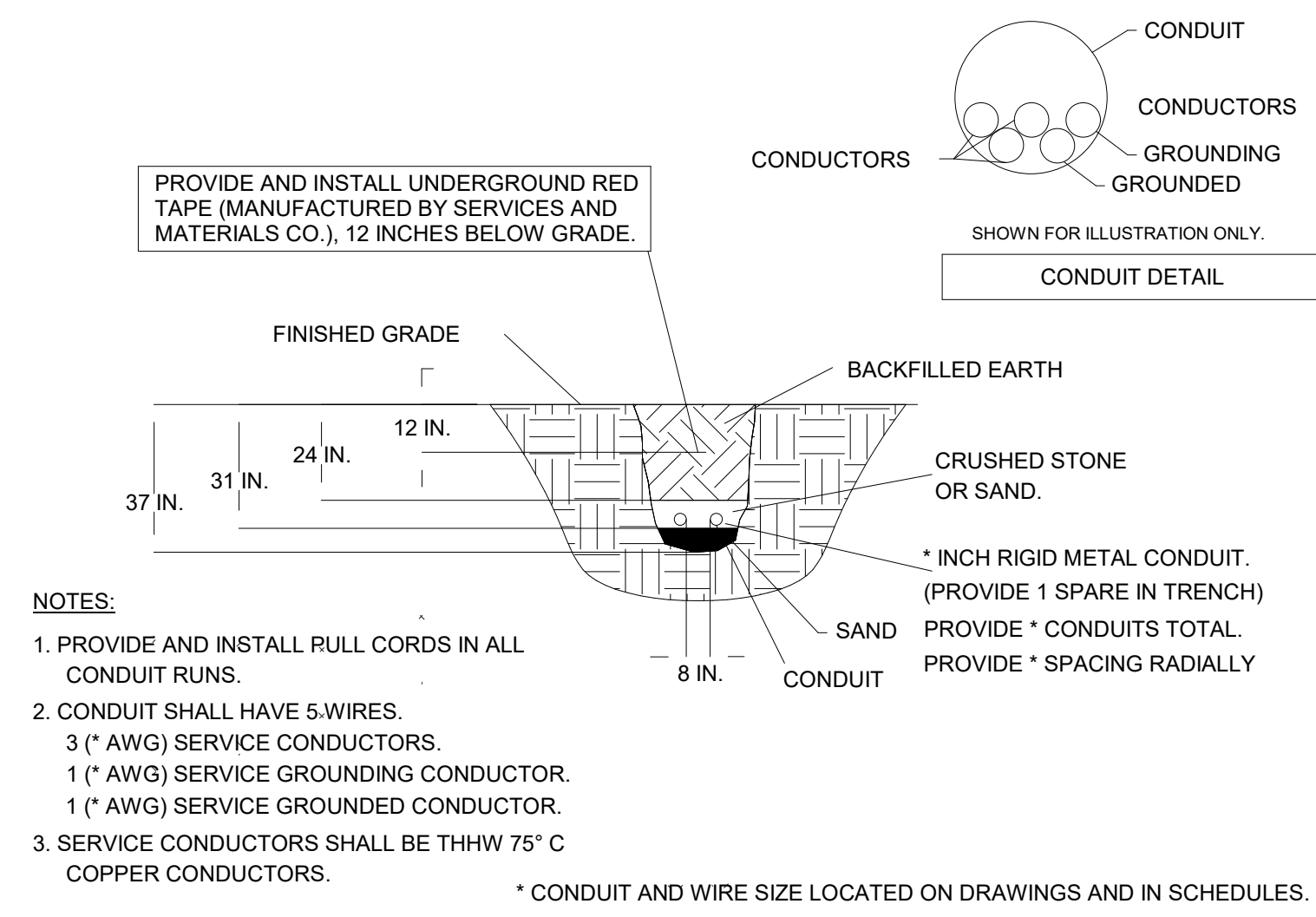
E1.10



1. MEASURING FROM TOP OF SWITCHES AND PULL STATIONS, MAXIMUM HEIGHT WILL BE NO MORE THAN 48 INCHES FROM THE FLOOR.
2. FROM THE TOP OF THE DUPLEX RECEPTACLE TO THE FLOOR MAY NOT EXCEED 48 INCHES. LOCATE RECEPTACLES AT THIS HEIGHT WHERE DRAWING DICTATES. UNLESS OTHERWISE NOTED, DEFAULT MOUNTING HEIGHT IS 18" ABOVE FLOOR.

(COMPONENTS ARE SHOWN HERE TO ILLUSTRATE ANSI A117 COMPLIANCE)

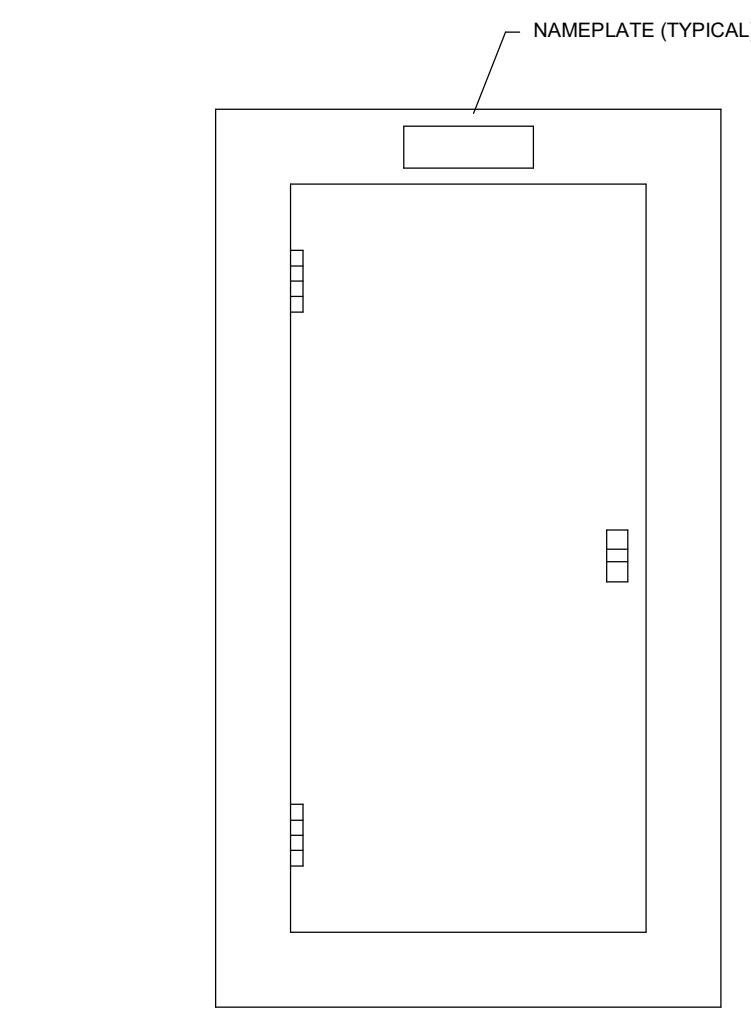
1 TYPICAL WALL MOUNT DIMENSIONAL DETAIL SCALE: NTS



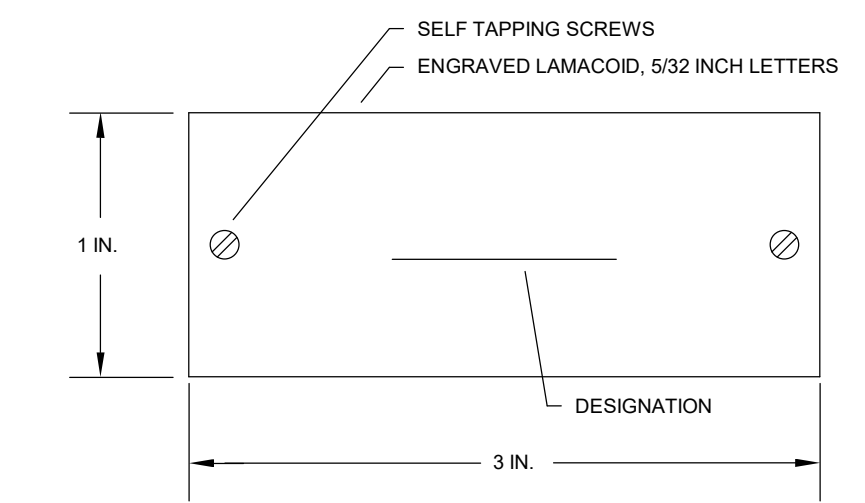
- PROVIDE AND INSTALL UNDERGROUND RED TAPE (MANUFACTURED BY SERVICES AND MATERIALS CO.), 12 INCHES BELOW GRADE.
- NOTES:
1. PROVIDE AND INSTALL PULL CORDS IN ALL CONDUIT RUNS.
 2. CONDUIT SHALL HAVE 5 WIRES. 3 (# AWG) SERVICE CONDUCTORS. 1 (# AWG) SERVICE GROUNDING CONDUCTOR.
 3. SERVICE CONDUCTORS SHALL BE THHW 75° C COPPER CONDUCTORS.

* CONDUIT AND WIRE SIZE LOCATED ON DRAWINGS AND IN SCHEDULES.

2 GENERAL CONDUIT TRENCH DETAIL SCALE: NTS



NOTE:
INCLUDE TYPEWRITTEN PANEL SCHEDULE INSIDE ALL ELECTRICAL PANELS.

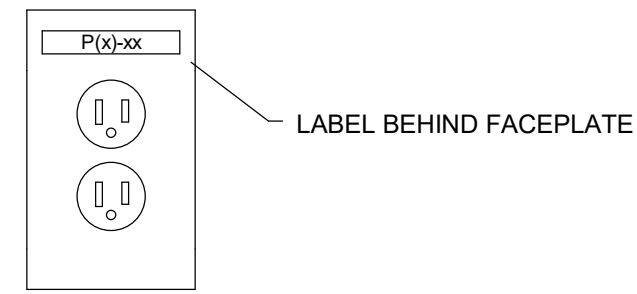


- STANDARD COLORS:
1. NORMAL POWER - WHITE BACKGROUND, BLACK LETTERS.
 2. EMERGENCY POWER - RED BACKGROUND, WHITE LETTERING.

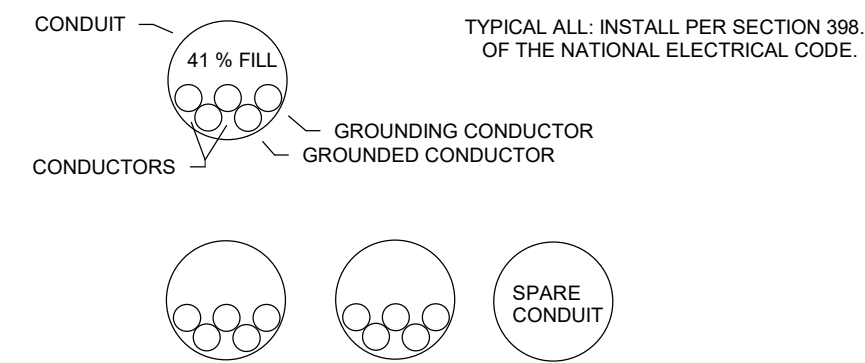
NAMEPLATE DETAIL NOTE:
NAMEPLATES ARE REQUIRED ON ALL PANEL BOARDS, STARTERS, DISCONNECT SWITCHES, RELAYS AND JUNCTION BOXES GREATER THAN 4 1/16" SQUARE. ALSO PROVIDE NAMEPLATES ON BRANCH BREAKERS OF DISTRIBUTION PANELS.

10 NAMEPLATE DETAIL SCALE: NTS

ELECTRICAL CONTRACTOR SHALL PROVIDE EACH OUTLET WITH A PERMANENT LABEL BEHIND THE FACEPLATE, IDENTIFYING THAT OUTLETS CORRESPONDING CIRCUIT, AS SHOWN ON THIS DETAIL.

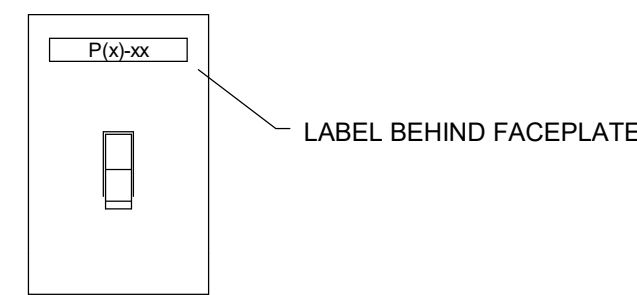


4 RECEPTACLE OUTLET CIRCUIT I.D. DETAIL SCALE: NTS



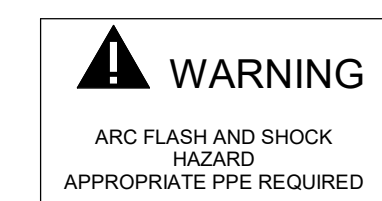
5 PARALLEL CONDUIT DETAIL SCALE: NTS

ELECTRICAL CONTRACTOR SHALL PROVIDE EACH SWITCH WITH A PERMANENT LABEL BEHIND THE FACEPLATE, IDENTIFYING THAT SWITCHES CORRESPONDING CIRCUIT, AS SHOWN ON THIS DETAIL.

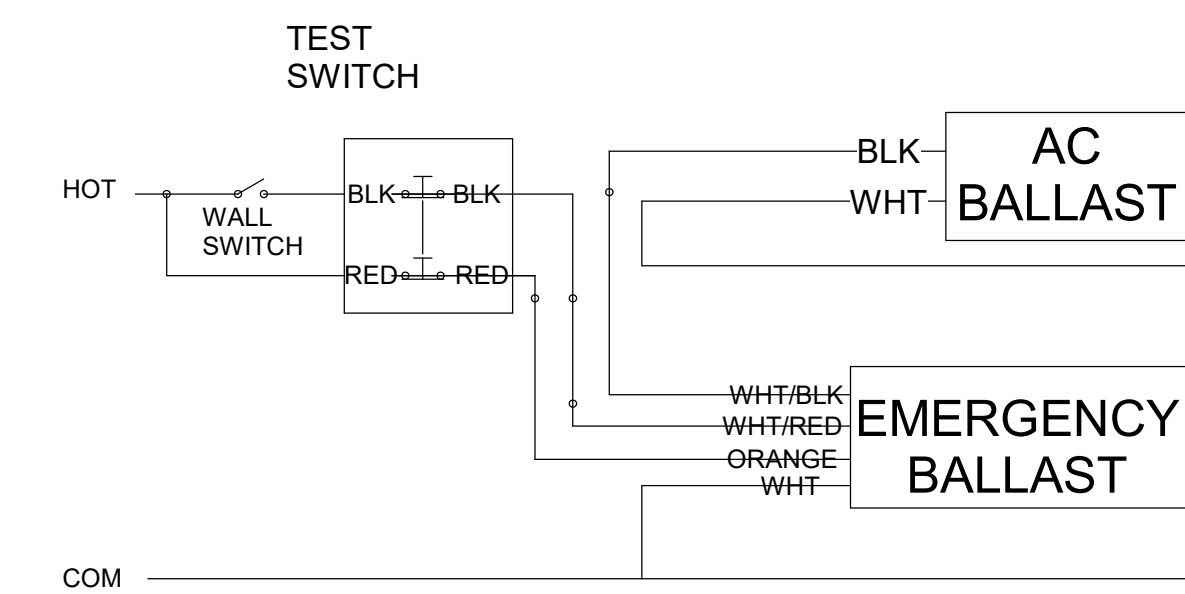


6 LIGHT SWITCH CIRCUIT I.D. DETAIL SCALE: NTS

PLACE WARNING SIGN BELOW ALL ELECTRICAL EQUIPMENT CONTAINING VOLTAGE ABOVE 120V. ENSURE THE SIGN IS CLEARLY VISIBLE.



7 WARNING DETAIL SCALE: NTS



9 EMERGENCY LIGHTING WIRING DETAIL SCALE: NTS



Revisions:

REV.	DATE	TITLE

Date:
CONSTRUCTION DOCS
02/11/2022

Project No.
MESQU TX

Drawn By:
ST

Checked By:
CSL

Sheet Title:
ELECTRICAL DETAILS &
ABBREVIATIONS

Drawing No.

Branch Panel: PD1													
Location: Space 205				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From: MDP				Phases: 3				Mains Type:					
Mounting: Surface				Wires: 4				Mains Rating: 200 A					
Enclosure: Type 1								MCB Rating: 200 A					
CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	Receptacle Space 204	20 A	1	360 VA			360 VA			1	20 A	Receptacle Space 204	2
3	Receptacle Space 204	20 A	1		360 VA			360 VA		1	20 A	Receptacle Space 204	4
5	Receptacle Space 205	20 A	1			360 VA			180 VA	1	20 A	Receptacle	6
7	Receptacle	20 A	1	180 VA			1080 VA			1	20 A	Receptacle Space 207	8
9	Receptacle	20 A	1		360 VA			3398 VA					10,12,14
11	Receptacle Space 206	20 A	1			540 VA			3398 VA	3	20 A	DOAS-1	
13,15,17	DOAS-2	20 A	3	3506 VA	3506 VA		3398 VA	3506 VA					16,18,20
19	Other Space 210	20 A	1	180 VA			3506 VA			3	20 A	DOAS-3	
21	Trap Primer	20 A	1		6 VA			3506 VA		6 VA	1	20 A	Trap Primer
23	UV FILTRATION-3	20 A	1			540 VA			540 VA	1	20 A	UV FILTRATION-2	22
25	UV FILTRATION-1	20 A	1	540 VA			540 VA			1	20 A	Power	24
27													26
29													28
31													30
33													32
35													34
37													36
39													38
41													40
													42
Total Load:				13651 VA			11503 VA			12571 VA			
Total Amps:				115 A			96 A			106 A			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	33573 VA	100.00%	33573 VA										
Receptacle	4140 VA	100.00%	4140 VA	Total Conn. Load: 37725 VA									
Power	12 VA	100.00%	12 VA	Total Est. Demand: 37725 VA									
				Total Conn.: 105 A									
				Total Est. Demand: 105 A									
Notes:													

Branch Panel: LP1													
Location: Space 205				Volts: 120/208 Wye				A.I.C. Rating:					
Supply From: MDP				Phases: 3				Mains Type:					
Mounting: Surface				Wires: 4				Mains Rating: 100 A					
Enclosure: Type 1								MCB Rating: 100 A					
CKT	Circuit Description	Trip	Poles	A	B	C	A	B	C	Poles	Trip	Circuit Description	CKT
1	Lighting Space 205	20 A	1	431 VA						1	20 A	Lighting Space 207	2
3	Lighting	20 A	1	213 VA			401 VA			1	20 A	Lighting Space 206	4
5	Lighting	20 A	1			133 VA		401 VA		1	20 A	Other	6
7	Power Space 204	20 A	1	540 VA			540 VA			1	20 A	Power Space 204	8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
Total Load:				1872 VA			596 VA			210 VA			
Total Amps:				16 A			5 A			2 A			
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals									
Other	2588 VA	100.00%	2588 VA										
Lighting	519 VA	100.00%	519 VA	Total Conn. Load: 2640 VA									
				Total Est. Demand: 2640 VA									
				Total Conn.: 7 A									
				Total Est. Demand: 7 A									
Notes:													

NOTE

DOAS UNITS ARE SPECIFIED WITH A FACTORY PROVIDED RECEPTACLE. VERIFY AND READ THE INSTALLATION REQUIREMENTS FOR DOAS EQUIPMENT BEFORE WIRING. FOR THE 120 VOLT RECEPTACLE, A FOUR WIRE CONNECTION WILL BE REQUIRED.

Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149



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Revisions:

REV.	DATE	TITLE

Date:
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02/11/2022

Project No.
MESQU TX

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Sheet Title:
ELECTRICAL PANEL
SCHEDULES I

Drawing No.

E2.10



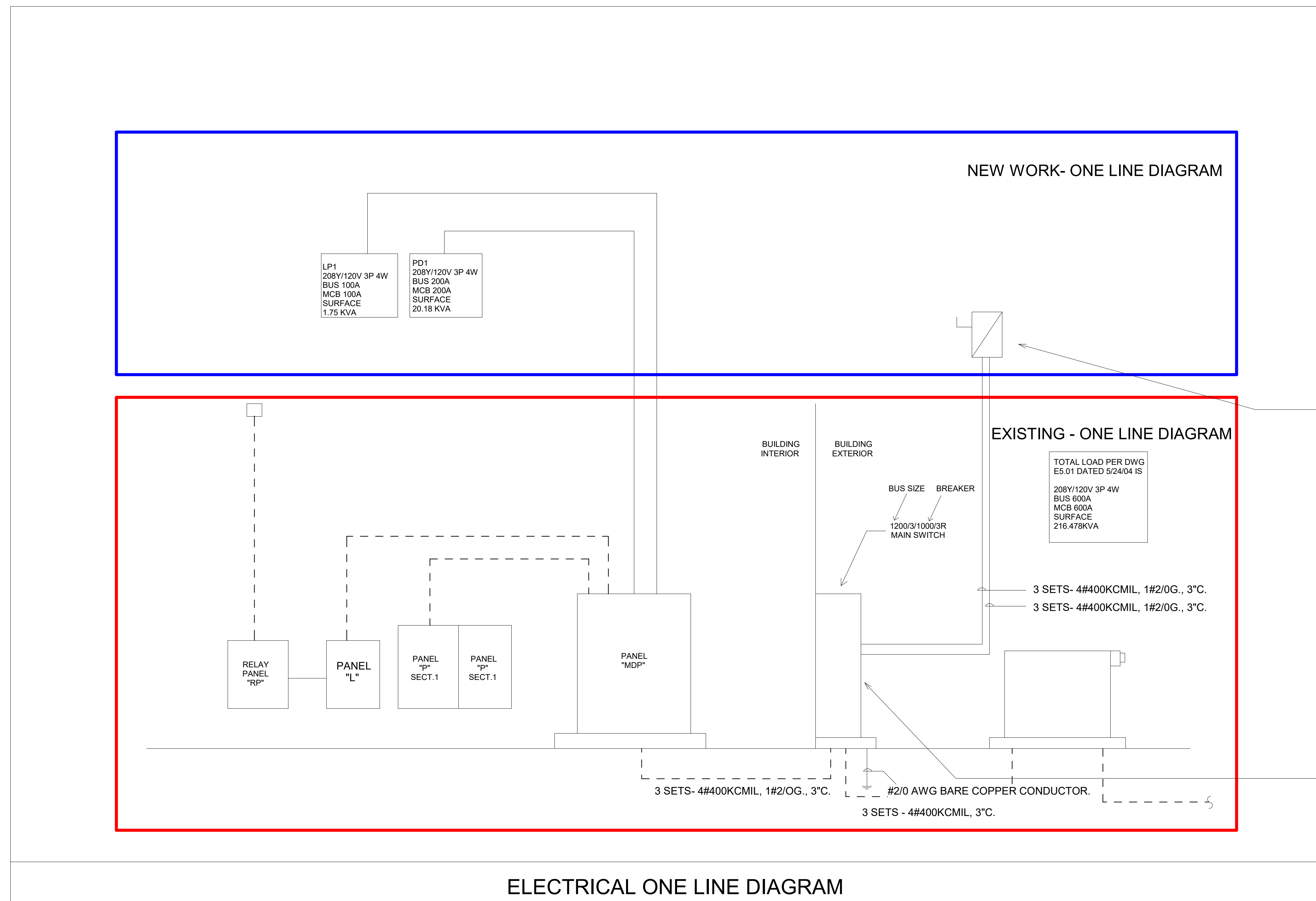
EXISTING METER AND CT CABINET OUTSIDE BUILDING TO BE INCORPORATED INTO NEW CONSTRUCTION

WORKING KEYNOTE

PANEL IS PRESENTLY ON THE EXTERIOR OF THE BUILDING
 NEW ADDITION WILL ENCOMPASE THIS CT CABINET
 THIS CONDITION IS ACCEPTABLE TO THE AUTHORITY HAVING JURIDICION BUT WILL REQUIRE A NEW DISCONNECT SWITCH ON THE OUTSIDE OF THE BUILDING TO PERMIT COMPLETE DISCONNECTION OF THE POWER
 INTERCEPT PRIMARY FEEDERS AND PROVIDE AND INSTALL A NEW DISCONNECT AS SHOWN ON THE DRAWINGS
 EXISTING FEEDER INFORMATION BASED ON EXISTING RECORD DOCUMENTS
 INCLUDE THE COST OF INVESTIGATING THE EXISTING PANEL,DISCONNECTING THE FEEDER,INSTALLING THE DISCONNECT AND RECONNECTING THE CT CABINET.

NOTE

INSTALL NEMA-3R DISCONNECT SWITCH FOR MAIN SERVICE ENTRANCE- 208/120V,3P,4W,1200A
 MODEL:HU368R
 MANUFACTURER: SCHNEIDER ELECTRIC



PROVIDE NEMA-3R FUSIBLE MAIN SERVICE DISCONNECT SWITCH IN WP ENCLOSURE 3P-1200A,+S/N,600V,HEAVY DUTY,LOCKING TYPE,RATED FOR SERVICE ENTRANCE

INTERCEPT MAIN FEEDERS AND PROVIDE CODE COMPLIANT GROUNDED DISCONNECT



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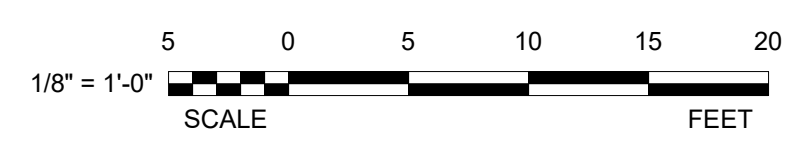
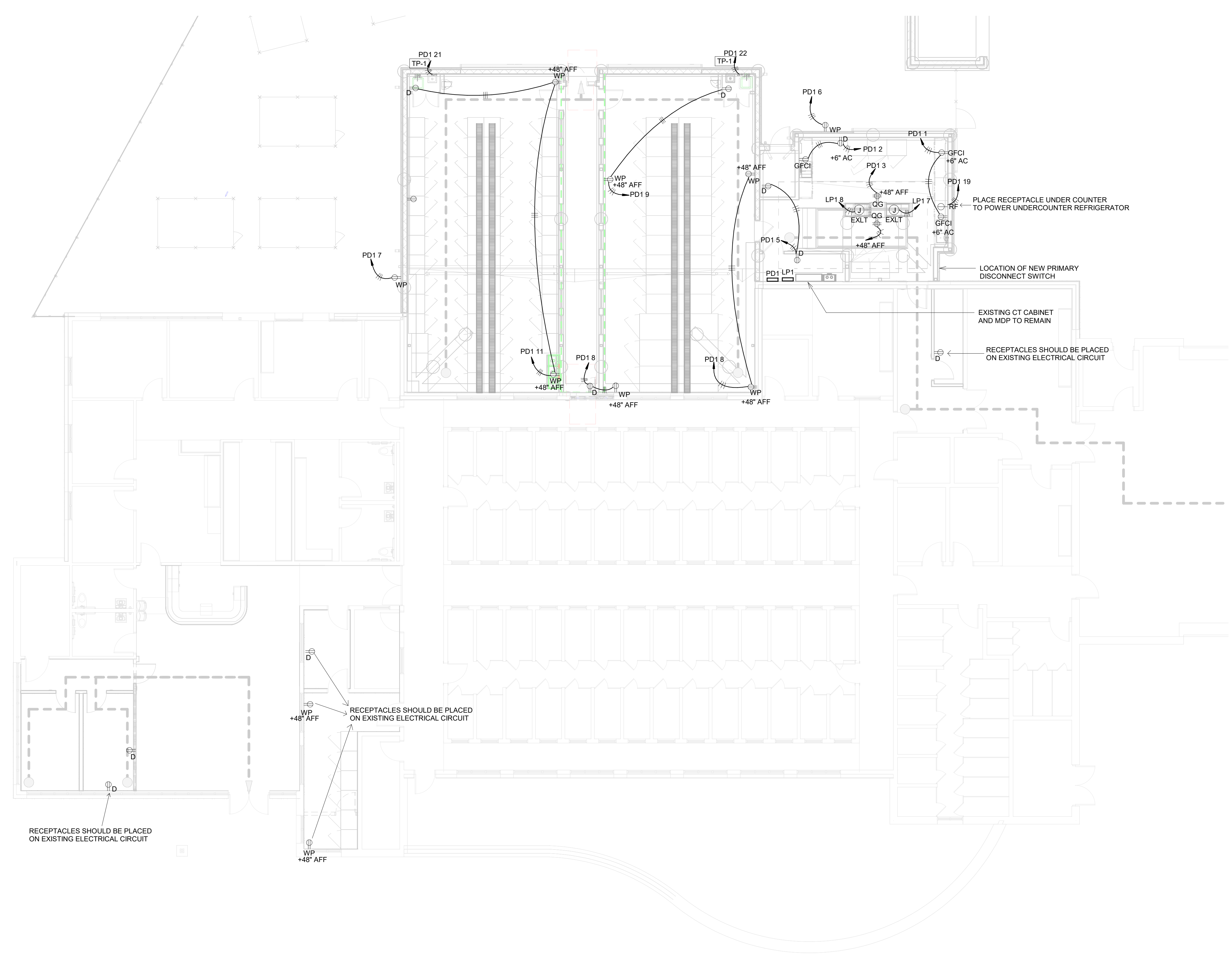
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Sheet Title:
 ONE LINE DIAGRAM

Drawing No.

RECEPTACLE SCHEDULE					
TAG	DESCRIPTION	MANUFACTURER	MODEL	VOLTAGE	COUNT
D	STANDARD DUPLEX RECEPTACLE	LEVITON	LEVITON 16352-"WITH 80301-S" WALLPLATE	120 V	10
EXLT	WALL MOUNT EXAM LIGHT	JUNCTION BOX		120 V	2
GFCI	GFCI DUPLEX RECEPTACLE	LEVITON	LEVITON GFNT2-"INCLUDE WALLPLATE"	120 V	3
HVAC	UV FILTRATION	JUNCTION BOX		120 V	4
QG	GFCI QUADRUPLX RECEPTACLE	LEVITON	(2) LEVITON GFNT2-"WITH 80309-S" WALLPLATE	120 V	2
RF	REFRIGERATOR	LEVITON	LEVITON 5015-"WITH 80704" WALLPLATE	120 V	1
WP	WEATHERPROOF DUPLEX RECEPTACLE	LEVITON	LEVITON GFNT2-"WITH 5977-"WEATHER RESISTANT COVER	120 V	12



ELECTRICAL LEGEND			
SWITCHES		RECEPTACLES	
	CEILING OCCUPANCY SENSOR		SIMPLEX
	DIMMING SWITCH		DUPLEX
	DUPLEX SWITCH		QUADRUPLX
	DUPLEX THREE WAY SWITCH		JUNCTION BOX
	FOUR WAY SWITCH		SPECIALTY RECEPTACLE
	OCCUPANCY SWITCH		TELEPHONE/DATA DUPLEX
	STANDARD SWITCH		CARD READER
	THREE WAY SWITCH		FIRE ALARM
	THREE WAY DIMMING SWITCH		AUDIO ALARM
	SURGICAL LIGHTS CONTROL		AUDIO/VISUAL ALARM
LUMINAIRE			VISUAL ALARM
	A1 / A2 / A3 / A4 / A5 / A8 A EM / A1 EM / A2 EM FIXTURE		MANUAL PULL STATION
	B1 / B2 / B4 / B5 FIXTURE		SMOKE DETECTOR
	D FIXTURE		DUCT SMOKE DETECTOR

Mesquite Animal Shelter
 1650 Gross Rd,
 Mesquite, TX 75149



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 CSL

Sheet Title:
 POWER LAYOUTS

Drawing No.

E3.10

LIGHTING SCOPE OF WORK

ALL INTERIOR LIGHTING IS DESIGNED TO SUIT THE INDIVIDUAL ENVIRONMENTS. IN AREAS WHERE THE ENVIRONMENT IS WET, DAMP, OR HUMID THE LIGHTING FIXTURES WILL BE GASKETED AND SEALED IN OTHER AREAS GASKETED LIGHTING IS USED TO PREVENT HAIR ACCUMULATION OR AVOID BACTERIAL CONTAMINATION. ALL INTERIOR LIGHT WIRING SHALL BE ROUTED IN EMT OR MC CABLE. ALL BALLASTS ARE TO BE ENERGY EFFICIENT ELECTRONIC BALLASTS.

LIGHTING IN OFFICES AND LOBBY AREAS SHALL BE CONTROLLED BY OCCUPANCY SENSORS, WHERE REQUIRED BY CODE. ONLY USE PASSIVE INFRARED OCCUPANCY SENSORS. OCCUPANCY SENSORS UTILIZING ULTRASONIC SOUND ARE NOT PERMISSIBLE THESE SENSORS OPERATE WITH A SOUND PRESSURE AND FREQUENCY THAT WILL CREATE STRESS IN ANIMALS AND CAUSE UNNECESSARY DISCOMFORT WITHIN THE BUILDING. OCCUPANCY SENSORS SHALL BE A LEARNING ADAPTABLE TYPE AND LOCATED AS SHOWN ON THE DRAWINGS. ALL ROOMS SHALL BE INDIVIDUALLY CONTROLLED BY SWITCHES OR OCCUPANCY SENSORS WHETHER THE SHOWN ON THE DRAWINGS OR NOT.

THE EXTERIOR LIGHTING SHALL BE POLE AND WALL MOUNTED PACKS. ALL LIGHTING AT EXIT DOORS SHALL BE SUPPLIED WITH BATTERY BACK UP TO PROVIDE EMERGENCY EGRESS LIGHTING. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK WHICH AUTOMATICALLY ADJUSTS FOR THE CHANGING SUNSET TIMES. THE TIME CLOCK SHALL BE PRE PROGRAMMED FOR THE COOPERTOWN AREA SUNSET AND SUNRISE TIMES EXTERIOR LIGHTING SHALL BE INSTALLED WITH NEMA 4R FITTINGS. CONTRACTOR TO INCLUDE COST AND INSTALLATION OF NEW HOMERUNS BACK TO THE NEW PANELBOARD. CONTRACTOR ALSO TO INCLUDE THE COST AND INSTALLATION OF ASTRONOMICAL TIME CLOCKS TO CONTROL SITE AND FACADE LIGHTING.

THE EMERGENCY LIGHTING SHALL BE SUPPLIED BY THE INTERIOR BUILDING LIGHTING WITH EMERGENCY BATTERY BACKUP AS INDICATED ON THE LIGHTING SCHEDULE. ALL LIGHTING SHOWN WITH THESE LIGHTS SHALL STAY LIT FOR 90 MINUTES. ALL EXIT LIGHTS SHALL HAVE BATTERY BACK UP AND SHALL BE ON ITS OWN CIRCUIT. ALL EXIT LIGHTING SHALL BE MOUNTED TO THE CEILING WITH NO OBSTRUCTIONS BLOCKING THE LIGHT OF SIGHT TO THE SIGN.

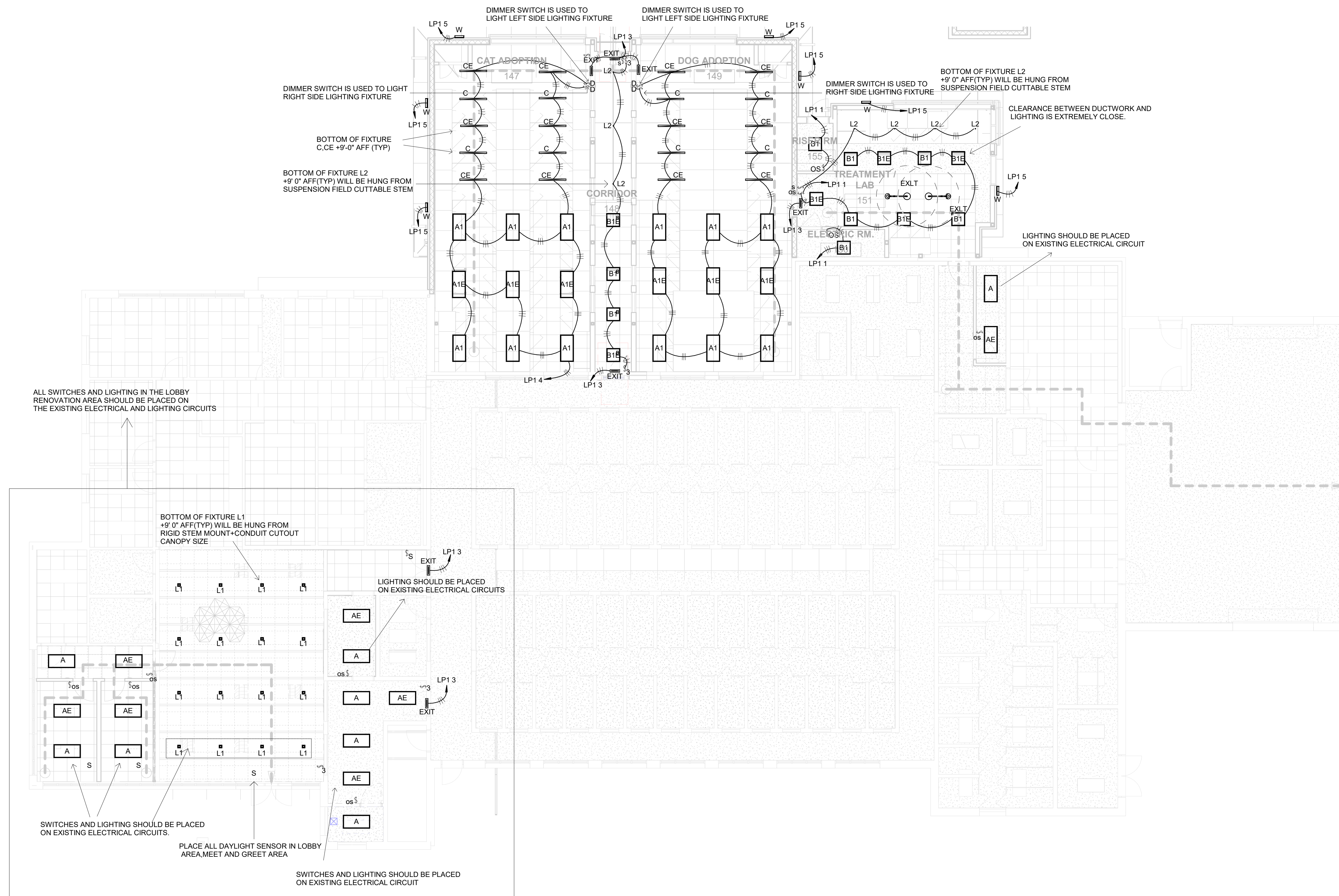
ANIMAL ENCLOSURE ROOMS TO HAVE 4 LEVEL SCENE CONTROLLERS CONTRACTOR TO PROVIDE AND INSTALL LEVITON GREENMAX DRC DIGITAL SWITCH 4 BUTTON ENGRAVED WITH: OFF, RESTING, FEEDING, CLEANING DESIGNATIONS ON BUTTONS. PROVIDE WITH LEVITON DRC LINE VOLTAGE ROOM CONTROLLER IN EACH ENCLOSURE ROOM. SUBMIT ALL PRODUCTS FOR APPROVAL INCLUDING BUTTON DESIGNATIONS AND CONFIRMATION THAT LIGHT FIXTURE CONTROLS MATCH SWITCH VOLTAGE CONTROLS.

LIGHTING FIXTURE SCHEDULE

Type Mark	Description	Manufacturer	Model	VOLTS	Wattage	Count
A	2X4 TROFFER	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-MVOLT	120 V	39 W	8
A1	2X4 TROFFER	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-40K-ZT-MVOLT	120 V	39 W	12
A1E	2X4 TROFFER WITH EMERGENCY BATTERY	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-40K-ZT-MVOLT-E10WLCP	120 V	39 W	6
AE	2X4 TROFFER WITH EMERGENCY BATTERY	LITHONIA LIGHTING	CPX-2X4-4000LM-80CRI-35K-MVOLT-E10WLCP	120 V	39 W	7
B1	2X2 TROFFER	LITHONIA LIGHTING	CPX-2X2-3200LM-80CRI-35K-MVOLT	120 V	32 W	8
B1E	2X2 TROFFER	LITHONIA LIGHTING	CPX-2X2-3200LM-80CRI-35K-MVOLT-E10WLCP	120 V	32 W	8
C	SUSPENDED LIGHTS	FINELITE	S19-P-ID-2E-V-835-OPEN-FC-10%-FAC CHO	120 V	35 W	8
CE	SUSPENDED LIGHTS WITH EMERGENCY BATTERY	FINELITE	S19-P-ID-2E-V-835-OPEN-FC-10%-FAC CHO	120 V	35 W	12
EXIT	EXIT LIGHTS	Cooper Industries, Inc.	EUS61R	120 V		7
EXLT	CEILING MOUNT EXAM LIGHTS	SHORLINE	913.7000.03	120 V		2
L1	LOBBY PENDANT	USA1 LIGHTING	BLSD5-24C3-35K-50-S-WH	120 V	24 W	16
L2	HOLLOWCORE-LED (PENDANT)	LUMINIS	HC1600-L4L30-29W-80CRI-4000K-120V-BKT	120 V	66 W	7
SL	SITE LIGHTING	LITHONIA LIGHTING	RADPT-P4-35K-SYM-MVOLT-P14-DBLXD	120 V	48 W	3
W	WALL PACK EXTERIOR LIGHTS	Cooper Industries, Inc.	673 16"-WP-L3835-UNV-MB-2HTB	120 V	19 W	7

SWITCH SCHEDULE

Type Mark	DESCRIPTION	MANUFACTURER	MODEL	COUNT
DS	DAYLIGHT CONTROL SENSOR	ACUTY CONTROLS	RCM ADXC	3
D	DIMMER SWITCH	LEVITON	GreenMAX DRC	4
OS	OCCUPANCY SENSOR	LEVITON	ODS15-ID*	10
S	STANDARD SINGLE POLE	LEVITON	5601-2*	3
3	THREE WAY SWITCH	LEVITON	5603-2*	4
T	TIMER SWITCH	LEVITON	VPT24-IP2	1



ELECTRICAL LEGEND

SWITCHES		RECEPTACLES	
OC	CEILING OCCUPANCY SENSOR	⊕	SIMPLEX
D	DIMMING SWITCH	⊕	DUPLEX
DP	DUPLEX SWITCH	⊕	QUADRUPLEX
DP3	DUPLEX THREE WAY SWITCH	⊕	JUNCTION BOX
4	FOUR WAY SWITCH	⊕	SPECIALTY RECEPTACLE
OS	OCCUPANCY SWITCH	⊕	TELEPHONE/DATA DUPLEX
S	STANDARD SWITCH	CR	CARD READER
3	THREE WAY SWITCH	⊕	FIRE ALARM
3D	THREE WAY DIMMING SWITCH	⊕	AUDIO ALARM
3S	SURGICAL LIGHTS CONTROL	⊕	AUDIO/VISUAL ALARM
LUMINAIRE			
A1 / A2 / A3 / A4 / A5 / A8	A EM / A1 EM / A2 EM FIXTURE	⊕	VISUAL ALARM
B1 / B2 / B4 / B5 FIXTURE		⊕	MANUAL PULL STATION
⊕	D FIXTURE	S	SMOKE DETECTOR
⊕		DSD	DUCT SMOKE DETECTOR

Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149

MESQUITE
TEXAS
Real. Texas. Flavor.

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Revisions:

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Date:
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Project No.
MESQUITE
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ST
Checked By:
CSL
Sheet Title:
LIGHTING & ILLUMINATED
EXIT SIGN LAYOUTS
Drawing No.

E4.10



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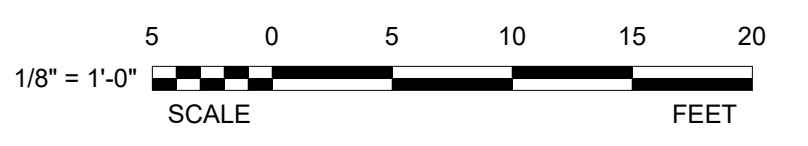
Project No.
MESQU TX

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Checked By:
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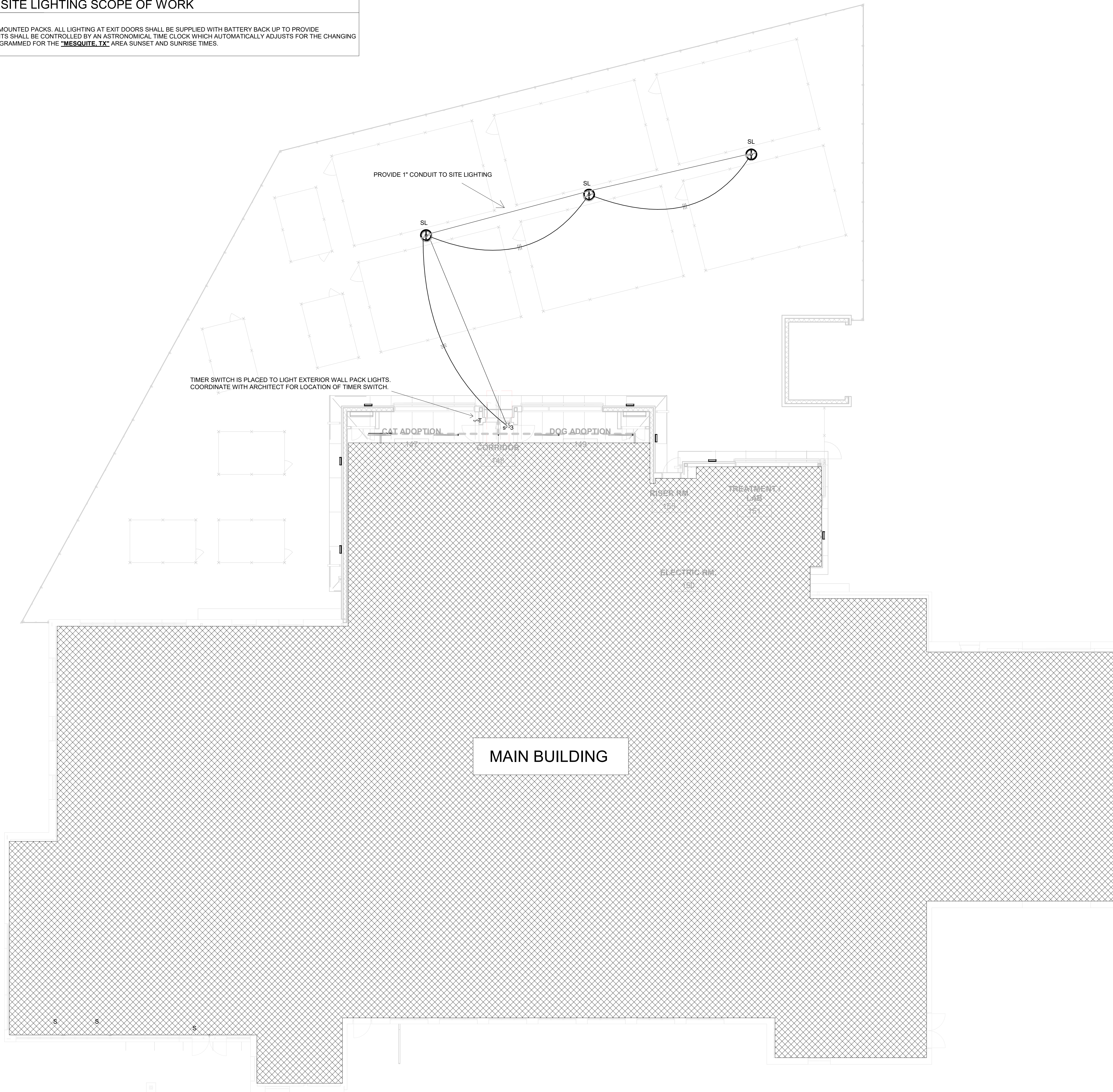
Sheet Title:
LIGHTING PHOTOMETRICS

Drawing No.
E4.20



SITE LIGHTING SCOPE OF WORK

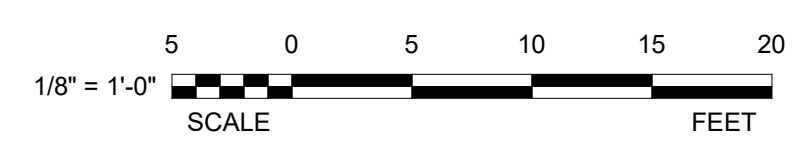
EXTERIOR BUILDING LIGHTING:
 THE EXTERIOR LIGHTING SHALL BE POLE AND WALL MOUNTED PACKS. ALL LIGHTING AT EXIT DOORS SHALL BE SUPPLIED WITH BATTERY BACK UP TO PROVIDE EMERGENCY EGRESS LIGHTING. THE EXTERIOR LIGHTS SHALL BE CONTROLLED BY AN ASTRONOMICAL TIME CLOCK WHICH AUTOMATICALLY ADJUSTS FOR THE CHANGING SUNSET TIMES. THE TIME CLOCK SHALL BE PRE PROGRAMMED FOR THE "MESQUITE, TX" AREA SUNSET AND SUNRISE TIMES.



TIMER SWITCH IS PLACED TO LIGHT EXTERIOR WALL PACK LIGHTS. COORDINATE WITH ARCHITECT FOR LOCATION OF TIMER SWITCH.

PROVIDE 1" CONDUIT TO SITE LIGHTING

MAIN BUILDING



ELECTRICAL LEGEND			
SWITCHES		RECEPTACLES	
OC	CEILING OCCUPANCY SENSOR	⊕	SIMPLEX
D	DIMMING SWITCH	⊕	DUPLEX
DP	DUPLEX SWITCH	⊕	QUADRUPLEX
DP3	DUPLEX THREE WAY SWITCH	⊕	JUNCTION BOX
4	FOUR WAY SWITCH	⊕	SPECIALTY RECEPTACLE
OS	OCCUPANCY SWITCH	⊕	TELEPHONE/DATA DUPLEX
S	STANDARD SWITCH	CR	CARD READER
3	THREE WAY SWITCH	FA	FIRE ALARM
3D	THREE WAY DIMMING SWITCH	AA	AUDIO ALARM
3S	SURGICAL LIGHTS CONTROL	AA	AUDIO/VISUAL ALARM
	LUMINAIRE	VA	VISUAL ALARM
	A1 / A2 / A3 / A4 / A5 / A6 A EM / A1 EM / A2 EM FIXTURE	M	MANUAL PULL STATION
	B1 / B2 / B4 / B5 FIXTURE	S	SMOKE DETECTOR
	D FIXTURE	DSD	DUCT SMOKE DETECTOR

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Date:
 CONSTRUCTION DOCS
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 Project No.
 MESQU TX
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 ST
 Checked By:
 CSL
 Sheet Title:
 SITE LIGHTING LAYOUT
 Drawing No.

E4.30

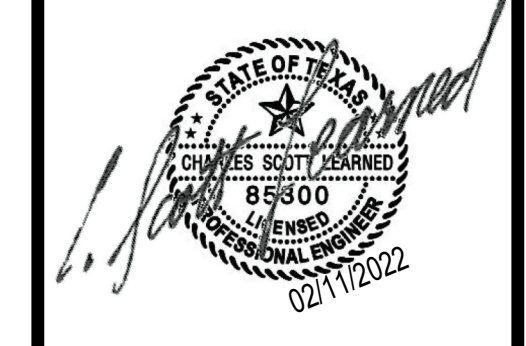


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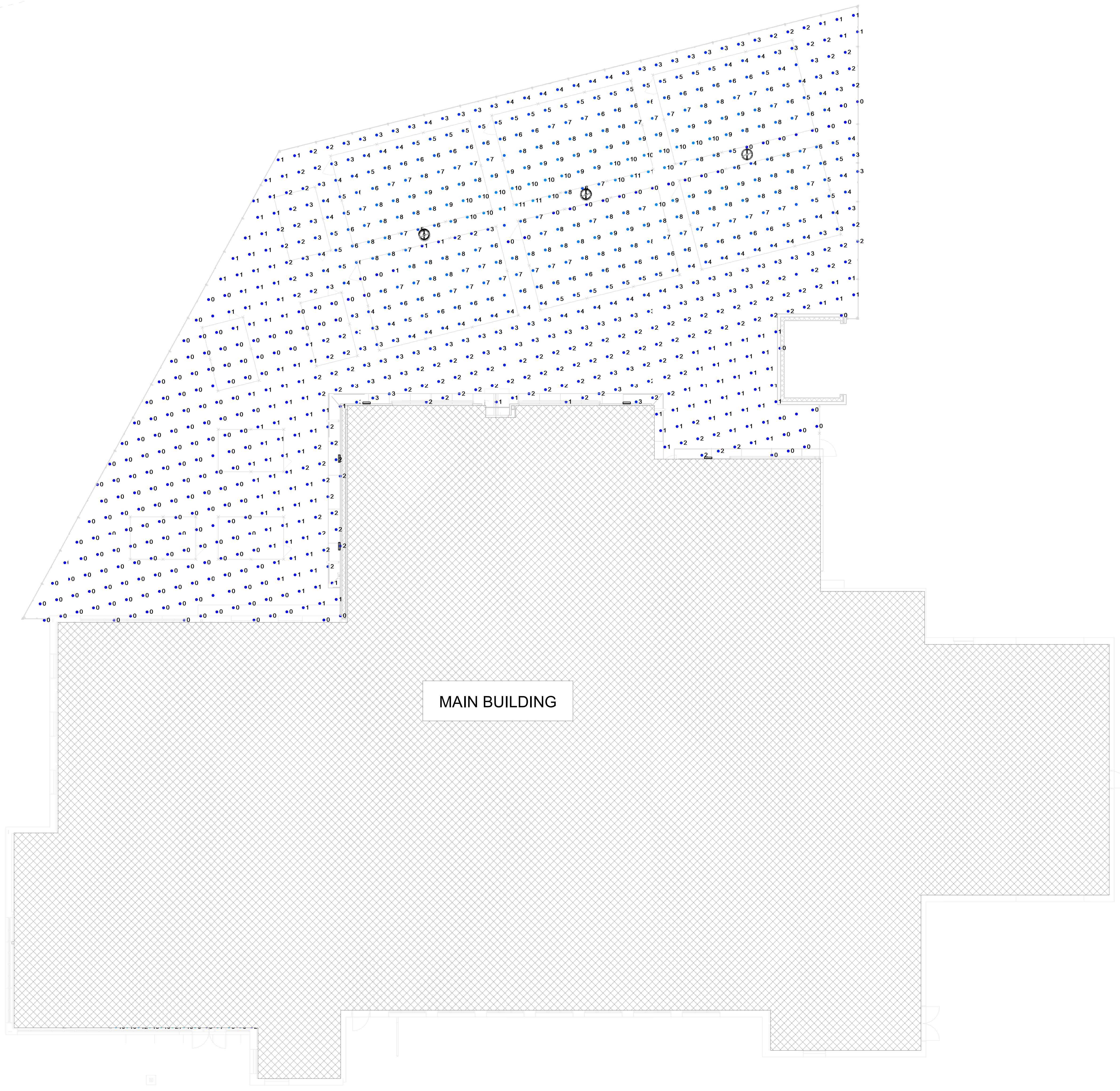


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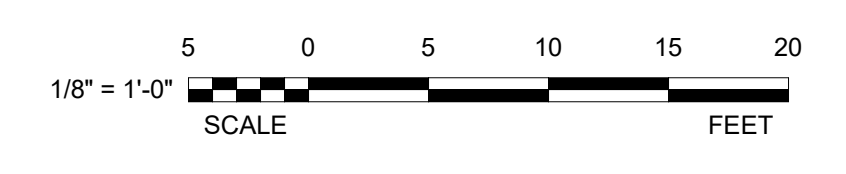
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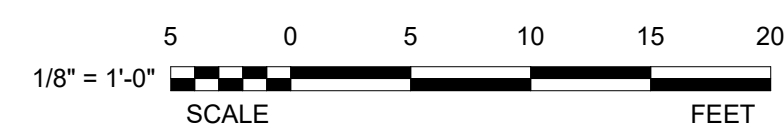
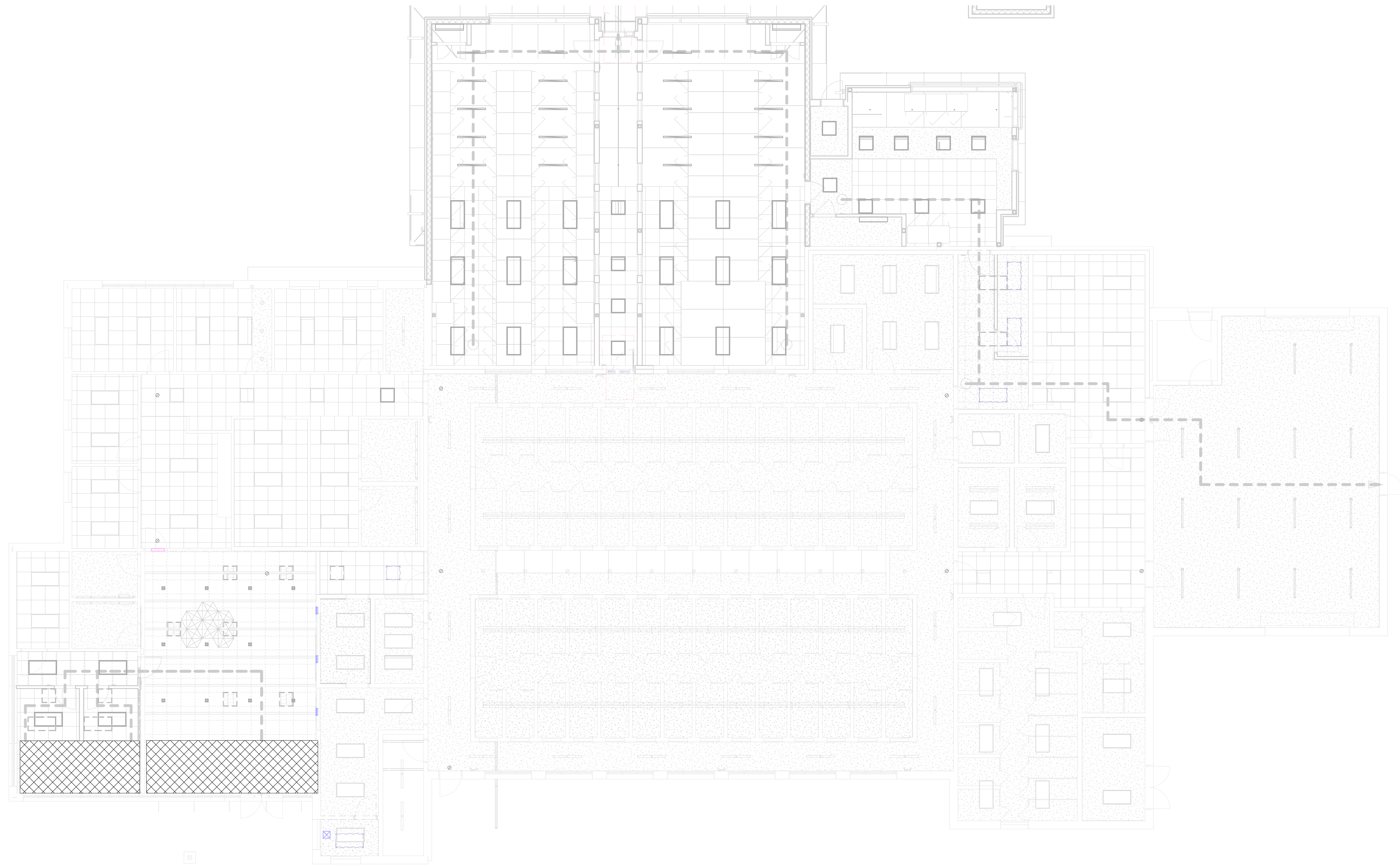
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 Drawn By: ST
 Checked By: CSL
 Sheet Title: SITE LIGHTING PHOTOMETRICS
 Drawing No.

E4.40



ELECTRICAL LEGEND			
SWITCHES		RECEPTACLES	
OC	CEILING OCCUPANCY SENSOR	⊕	SIMPLEX
D	DIMMING SWITCH	⊕	DUPLEX
DP	DUPLEX SWITCH	⊕	QUADRUPLEX
DP3	DUPLEX THREE WAY SWITCH	⊕	JUNCTION BOX
4	FOUR WAY SWITCH	⊕	SPECIALTY RECEPTACLE
OS	OCCUPANCY SWITCH	⊕	TELEPHONE/DATA DUPLEX
S	STANDARD SWITCH	CR	CARD READER
3	THREE WAY SWITCH	FA	FIRE ALARM
3D	THREE WAY DIMMING SWITCH	AA	AUDIO ALARM
3S	SURGICAL LIGHTS CONTROL	AA	AUDIO/VISUAL ALARM
	LUMINAIRE	VA	VISUAL ALARM
	A1 / A2 / A3 / A4 / A5 / A6 A EM / A1 EM / A2 EM FIXTURE	M	MANUAL PULL STATION
	B1 / B2 / B4 / B5 FIXTURE	S	SMOKE DETECTOR
⊕	D FIXTURE	DSD	DUCT SMOKE DETECTOR





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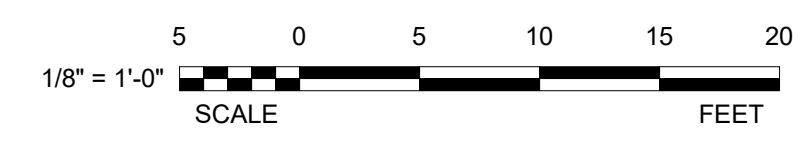
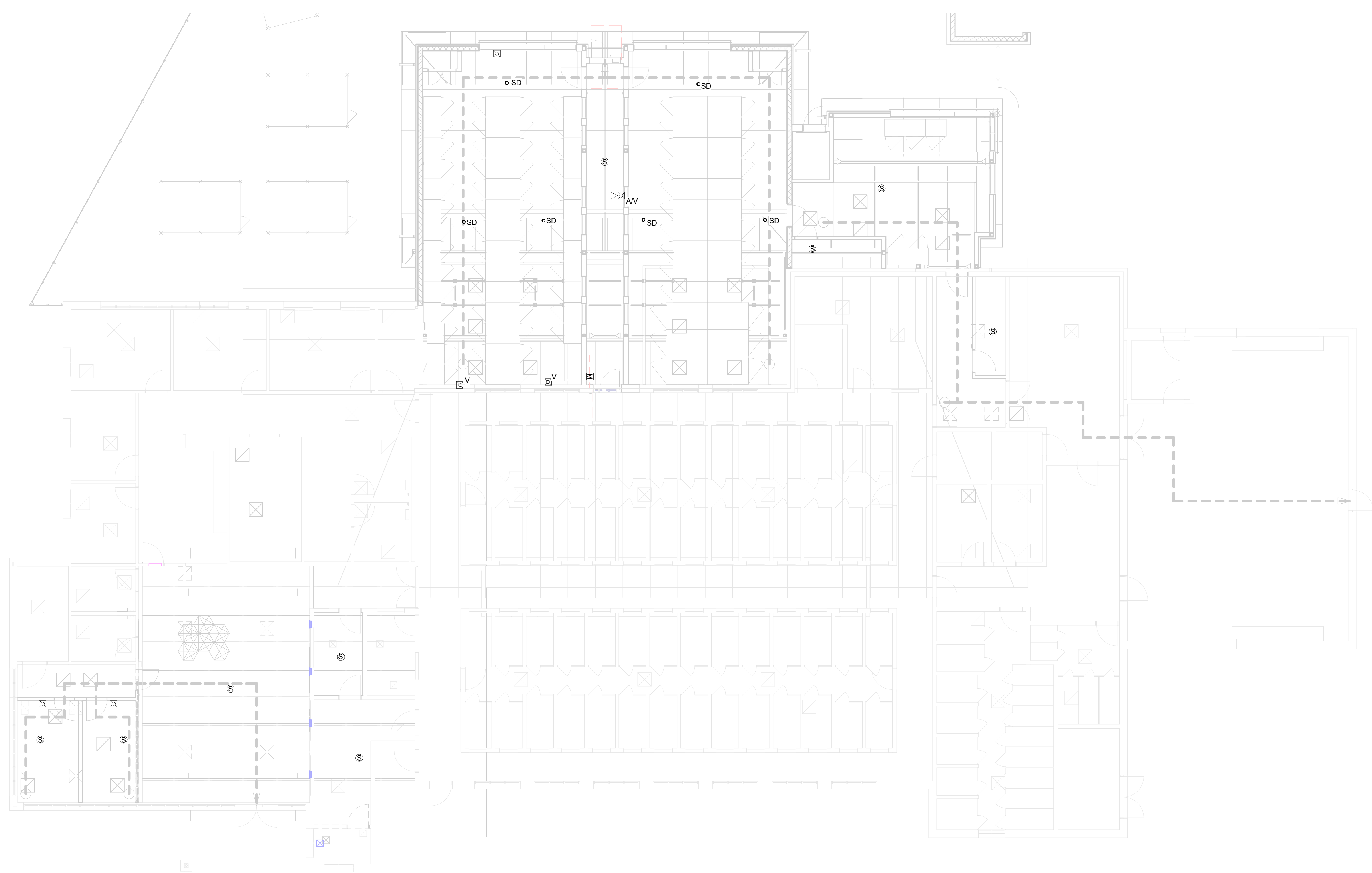
Sheet Title:
 DAYLIGHT AREAS

Drawing No.
E4.50

NOTE

WHEN PLACING SMOKE DETECTORS INSTALL WITH RESPECT TO LIGHTING FIXTURES AND MECHANICAL AIR DIFFUSERS. SMOKE DETECTORS SHOULD BE CENTERED ON ROOM BETWEEN ELEMENTS OR CENTERED IN ACT THROUGHOUT BUILDING.
 ALL AUDIOVISUAL AND VISUAL ALARMS WILL BE MOUNTED AT 9' UNLESS OTHERWISE SHOWN ON DRAWINGS.
 CONNECT ALL DEVICES TO EXISTING FACP.
 VERIFY CAPACITY AND ADD MODULES AS NECESSARY TO PERMIT ADDITION OF NEW DEVICES.
 FIRE ALARM ADDITION EQUIPMENT SHOWN AS A PERFORMANCE REQUIREMENT
 CONTRACTOR TO PROVIDE FULL SHOP DRAWINGS WITH WIRING, ROUTING, CONNECTIONS TO EXISTING EQUIPMENT AND BATTERY CALCULATIONS.

FIRE ALARM SCHEDULE			
Description	Manufacturer	Model	Count
AUDIOVISUAL ALARM	SYSTEM SENSOR	P2R	1
MANUAL PULL STATION	NOTIFIER	NOT-BG12LX	1
MULTICRITERIA SMOKE DETECTOR	NOTIFIER	NP-A100	6
SMOKE DETECTOR	SYSTEM SENSOR	NP-200	9
VISUAL ALARM	SYSTEM SENSOR	SR	5



ELECTRICAL LEGEND			
SWITCHES		RECEPTACLES	
OC	CEILING OCCUPANCY SENSOR	⊕	SIMPLEX
D	DIMMING SWITCH	⊕	DUPLEX
DP	DUPLEX SWITCH	⊕	QUADRUPLEX
DP3	DUPLEX THREE WAY SWITCH	⊕	JUNCTION BOX
4	FOUR WAY SWITCH	⊕	SPECIALTY RECEPTACLE
OS	OCCUPANCY SWITCH	⊕	TELEPHONE/DATA DUPLEX
S	STANDARD SWITCH	CR	CARD READER
3	THREE WAY SWITCH	FA	FIRE ALARM
3D	THREE WAY DIMMING SWITCH	AL	AUDIO ALARM
3S	SURGICAL LIGHTS CONTROL	AV	AUDIO/VISUAL ALARM
		V	VISUAL ALARM
	LUMINAIRE	M	MANUAL PULL STATION
	A1 / A2 / A3 / A4 / A5 / A6 A EM / A1 EM / A2 EM FIXTURE	S	SMOKE DETECTOR
	B1 / B2 / B4 / B5 FIXTURE	SD	DUCT SMOKE DETECTOR
	D FIXTURE		

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 FIRE ALARM FLOOR PLAN
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E5.20



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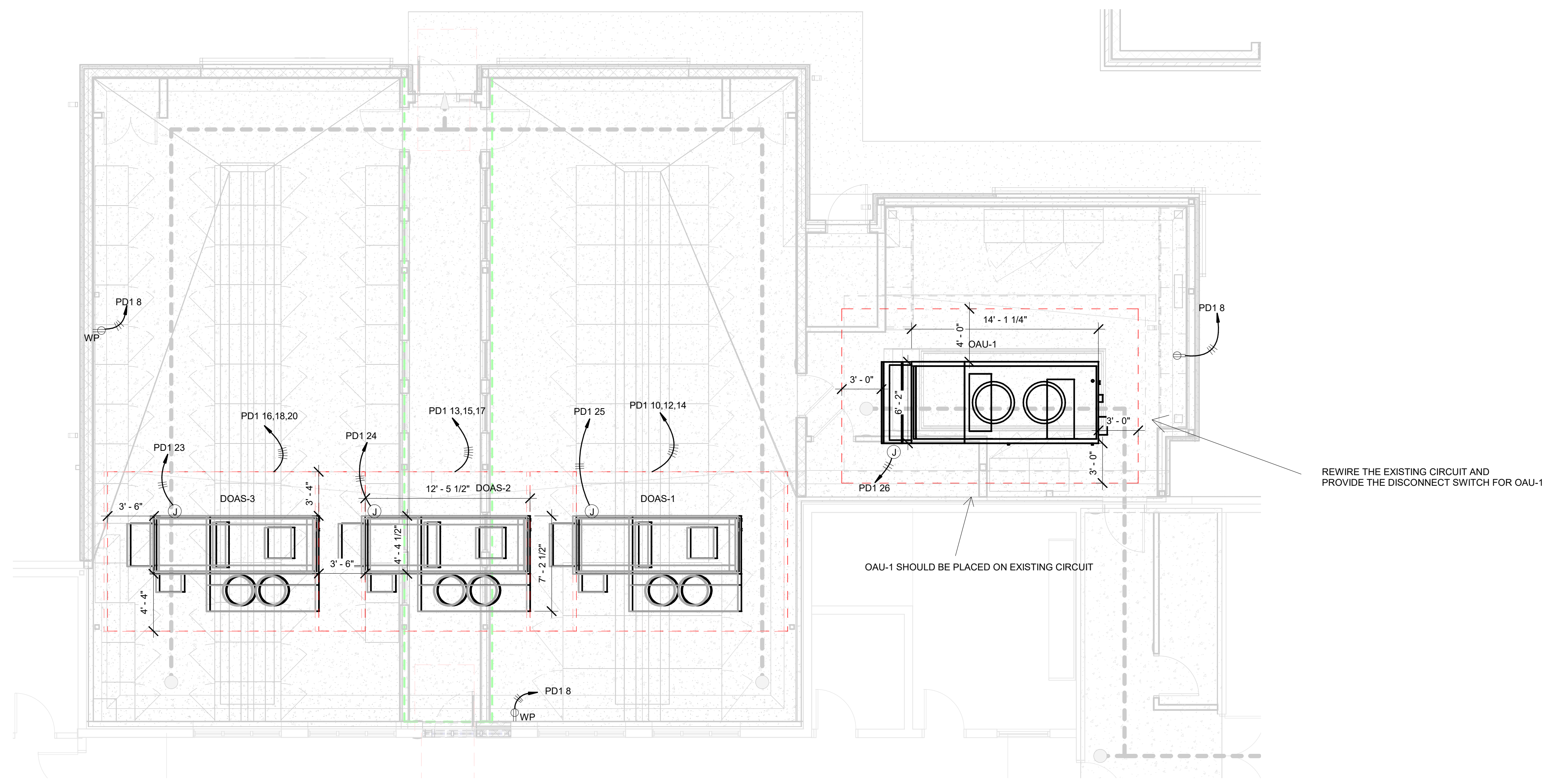
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 Sheet Title:
 POWER ROOF
 Drawing No.



NOTE

DOAS UNITS ARE SPECIFIED WITH A FACTORY PROVIDED RECEPTACLE. VERIFY AND READ THE INSTALLATION REQUIREMENTS FOR DOAS EQUIPMENT BEFORE WIRING. FOR THE 120 VOLT RECEPTACLE, A FOUR WIRE CONNECTION WILL BE REQUIRED.

ALL PLUMBING PLANS MUST BE PRINTED IN COLOR. IF THIS NOTE DOES NOT APPEAR RED, THE PLANS ARE NOT TO BE USED FOR CONSTRUCTION. ANY CHANGE ORDERS GENERATED DUE TO A FAILURE TO PRINT THESE PLANS IN COLOR ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

PLUMBING SCOPE OF WORK

- THESE DRAWINGS REPRESENT THE DESIGN INTENT OF THE NEW PLUMBING SYSTEMS FOR THE EXTENSION OF THE MESQUITE CITY ANIMAL SHELTER. PLUMBING WORK GENERALLY INCLUDES:
 - TRENCH DRAINAGE AND VENT SYSTEMS IN THE NEW ANIMAL AREAS
 - CLINICAL DRAINAGE AND VENT SYSTEMS
 - DRAINAGE CONNECTIONS TO EXISTING DRAIN LATERALS
 - EXTENSION OF SUPPLY PIPING TO NEW FIXTURES
 - PROCUREMENT AND INSTALLATION OF FIXTURES AS SCHEDULED
- PLUMBING CONTRACTORS SHALL BE RESPONSIBLE FOR READING THE PLUMBING SPECIFICATIONS AND SHALL REVIEW THE ENTIRE DRAWING SET FOR COORDINATION ISSUES WITH THE OTHER TRADES.
- THE CONTRACTOR SHALL VERIFY THE EXISTING SITE CONDITIONS PRIOR TO BIDDING AND COMMENCING WORK ON THIS PROJECT. ALL QUESTIONS AND/OR DEVIATIONS FROM THIS DESIGN SHALL BE SUBMITTED TO THE ENGINEER, IN WRITING, FOR APPROVAL.
- THE TERM 'PROVIDE' SHALL MEAN TO FURNISH AND INSTALL COMPLETELY. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, MATERIALS, AND ACCESSORIES SPECIFIED WITHIN THIS DRAWING SET. ADDITIONALLY, THE CONTRACTOR SHALL PROVIDE AND INSTALL ANY EQUIPMENT, MATERIAL, ACCESSORY, AND/OR HARDWARE REQUIRED TO COMPLETE A FULLY OPERATIONAL SYSTEM.
- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL PERMIT FEES, AND LOCAL BUILDING OFFICIAL REQUIREMENTS. CONTRACTOR IS ALSO RESPONSIBLE FOR INSTALLING ALL SYSTEMS TO THE CURRENT PLUMBING CODE AND LOCAL MUNICIPALITY AMENDMENTS.
- ALL PLUMBING IS TO BE NEAT, CLEAN, PLUMB AND ATTRACTIVE. ALL SUPPLY PIPING, WITHOUT EXCEPTION, IS TO BE INSULATED, TAPED, AND SEALED. VALVES, EQUIPMENT, METERS, AND PIPING WILL BE LABELED. PROVIDE ACCESS PANELS WITH LABELS TO SHUT-OFF VALVES AT ANY LOCATION THAT IS OTHERWISE INACCESSIBLE.
- ALL PLUMBING PIPING OR EQUIPMENT, WHETHER HUNG OR RUN ON PIPE STANDS, SHALL BE MOUNTED WITH HIGH QUALITY, MANUFACTURED PIPE SUPPORTS.

EXPOSED PLUMBING PIPES

IN ACCORDANCE WITH SECTION 606.6 OF ICC/ANSI A117.1-2017 (ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES STANDARD) ALL EXPOSED SUPPLY AND DRAINAGE PIPES BENEATH LAVATORIES AND SINKS MUST BE INSULATED OR OTHERWISE PROTECTED AGAINST CONTACT.

PLUMBING LEGEND

ELBOW	DOMESTIC COLD
SINGLE WYE	DOMESTIC HOT
DOUBLE WYE	SANITARY DRAIN
SANITARY TEE	HAIR TRAP DRAIN
REDUCER / INCREASER	VENT
CAP / PLUG	OXYGEN SUPPLY
TYPE MARK	SCAVENGER
KEYNOTE	HOT WATER RECIRC.
	WET/DRY VAC
	STORM DRAIN
	CONDENSATE
	TRENCH WASHDOWN
	TRAP PRIMER
	NATURAL GAS

HANGER SPACING

PIPING MATERIAL	MAXIMUM HORIZONTAL SPACING (FEET)	MAXIMUM VERTICAL SPACING (FEET)
CAST IRON PIPE	5	15
COPPER TUBING, 1-1/4 INCH DIAMETER AND SMALLER	6	10
COPPER TUBING, 1-1/2 INCH DIAMETER AND LARGER	10	10
PVC PIPE	4	10

ATTENTION: SUBMITTALS ARE REQUIRED

DO NOT INSTALL WORK WITHOUT APPROVED SHOP DRAWINGS. SHOULD THE CONTRACTOR PROCEED WITHOUT APPROVED SUBMITTALS, ANY COSTS INCURRED TO CORRECT PROBLEMS THAT COULD HAVE BEEN CORRECTED BY SUBMISSIONS OF SAID DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, EVEN IF SUCH CORRECTION IS ABOVE THE CONTRACTORS ORIGINAL CONTRACT RESPONSIBILITIES.

PLUMBING SUBMITTAL REQUIREMENTS

SUBMITTAL INFORMATION SHALL BE SUBMITTED AND APPROVED BEFORE THE RELATED INSTALLATION MAY COMMENCE. ANY DEVIATION IN DESIGN DURING THE INSTALLATION PROCESS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE INSTALLING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH COPIES OF THE FOLLOWING DOCUMENTS FOR APPROVAL:

- MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL REGARDLESS OF DEVIATIONS. PROVIDE SHOP DRAWINGS FOR ALL SYSTEMS.
- PIPING SHOP DRAWINGS INDICATING DEVIATIONS FROM DESIGN, MAJOR CHANGES IN FITTINGS AND ROUTING, PENETRATIONS, AND INTERFERENCES.

GENERAL CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO FIELD VERIFY COORDINATION OF DUCTWORK, LIGHTING, SPRINKLER HEADS, CEILING TILES, AND STRUCTURAL OBSTRUCTIONS.

DESIGN LEARNED, INC. WILL INSPECT INSTALLATION DURING AND AFTER CONSTRUCTION TO ENSURE THAT OUR DESIGNS HAVE BEEN MAINTAINED AND ARE FUNCTIONING AS INTENDED.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT ALL SUB-CONTRACTORS ADHERE TO ALL DRAWINGS, SPECIFICATIONS, AND ADDENDA EXACTLY.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COST OF REWORK ASSOCIATED WITH ANY UNAPPROVED DEVIATIONS TO DESIGN.

SPECIFICATIONS

SPECIFICATIONS ARE PROVIDED IN A-SIZE FORMAT AND ARE PART OF THIS CONSTRUCTION DRAWING SET. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO READ AND UNDERSTAND ALL SPECIFICATIONS BEFORE BIDDING AND BEFORE BEGINNING WORK. CONTRACTORS WILL BE HELD TO THE SPECIFICATIONS AND DRAWINGS. DESIGN LEARNED, INC. WILL NOT APPROVE ANY CHANGES, REWORK, SUBSTITUTIONS, OR OMISSIONS DUE TO THE CONTRACTOR'S FAILURE TO FOLLOW THE SPECIFICATIONS.

EQUAL ALTERNATES

EQUAL ALTERNATES ARE ALLOWED FOR ALL SPECIFIED EQUIPMENT AND MATERIALS PROVIDING THE CONTRACTOR ADHERES TO THE SUBMISSION PROCESS. NO ALTERNATES SHALL BE PROCURED OR INSTALLED WITHOUT EXPRESS WRITTEN APPROVAL OF DESIGN LEARNED, INC. REFER TO THE SPECIFICATIONS FOR DETAILS ON SUBMITTAL REQUIREMENTS AND ADDITIONAL PERFORMANCE REQUIREMENTS FOR EQUIPMENT AND MATERIALS.

PLUMBING SUBMITTALS REQUIRED

PLUMBING CONTRACTOR IS REQUIRED TO PROVIDE SUBMITTALS IN ACCORDANCE WITH THE FOLLOWING SPECIFICATION SECTIONS:

- 22 0553 - IDENTIFICATION FOR PLUMBING PIPING AND EQUIPMENT**
- 22 0719 - PLUMBING PIPING INSULATION**
- 22 1005 - PLUMBING PIPING**
- 22 1006 - PLUMBING PIPING SPECIALTIES**
- 22 3000 - PLUMBING EQUIPMENT**
- 22 4000 - PLUMBING FIXTURES**

SUBMITTALS MUST INCLUDE, THE FOLLOWING INFORMATION, AS APPROPRIATE:

- EQUIPMENT PERFORMANCE INFORMATION
- ELECTRICAL REQUIREMENTS
- MAINTENANCE INFORMATION
- PIPING SHOP DRAWINGS

NOTE

THESE DRAWINGS ARE BASED ON THE LATEST ARCHITECTURAL PLANS DATED 10/19/2021.

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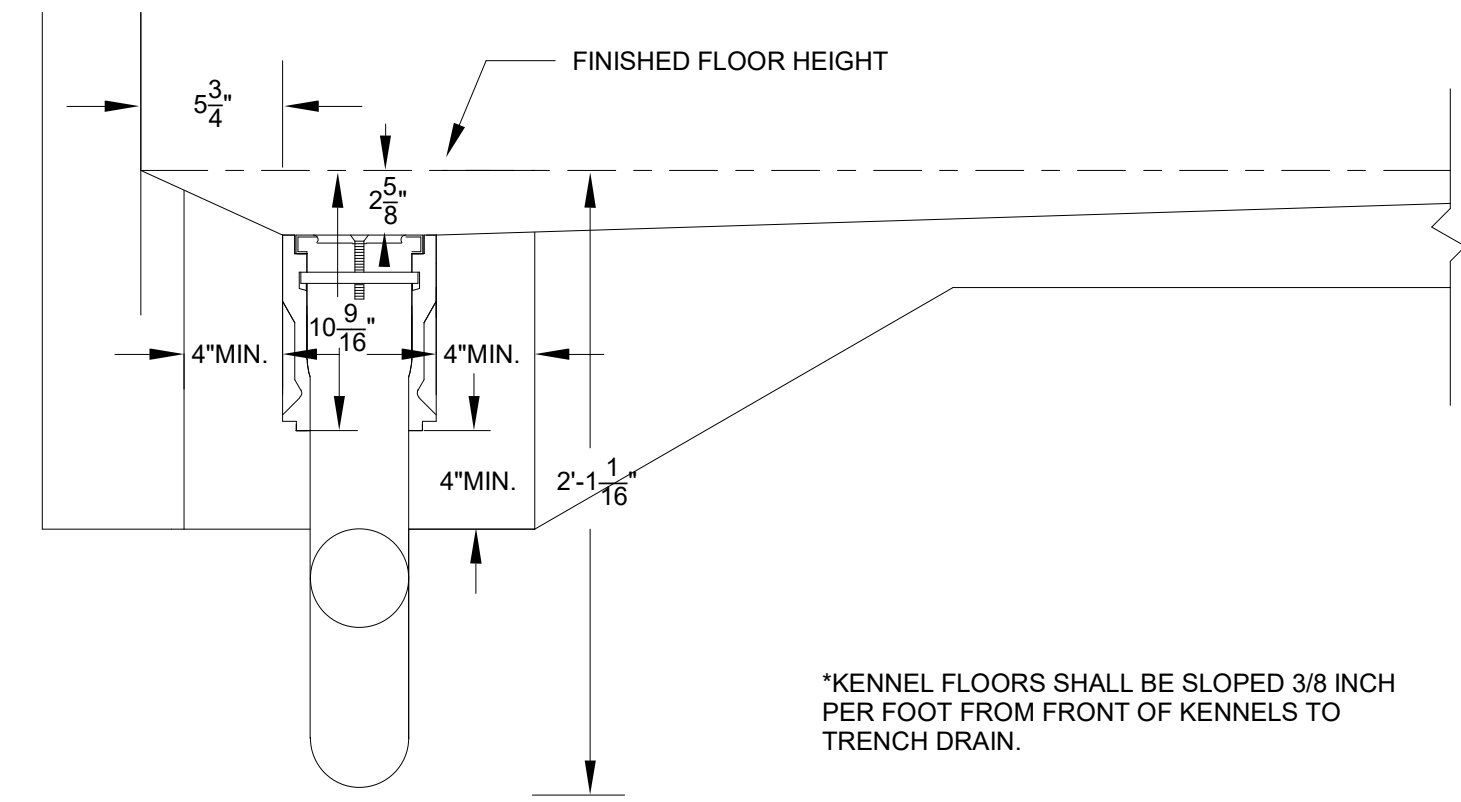
Drawing No.

P1.10

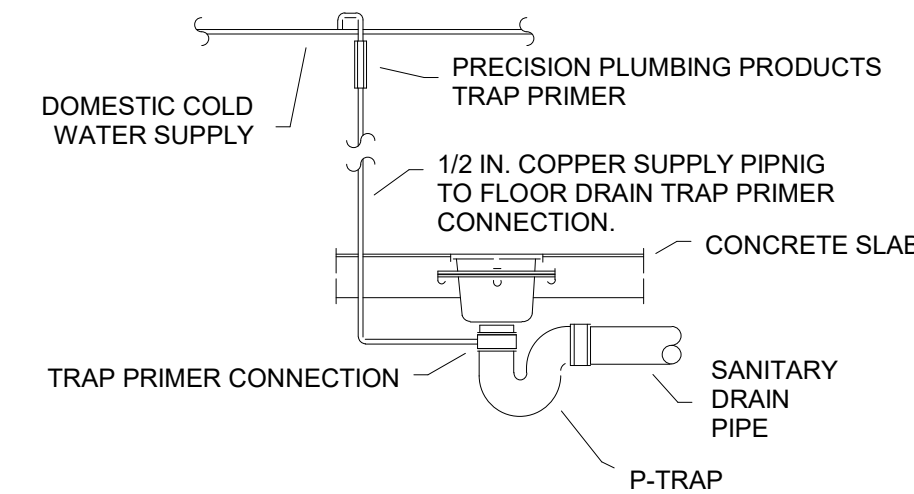
PLUMBING SHEET LIST

Sheet Number	Sheet Name
P1.10	PLUMBING SCOPE
P1.20	PLUMBING DETAILS & ABBREVIATIONS
P1.30	PLUMBING SCHEDULES
P2.10	PLUMBING FIXTURE LAYOUTS
P4.10	OVERVIEW HOT & COLD SUPPLY DRAWINGS
P4.20	SUPPLY PIPING RISER DETAIL
P6.10	SANITARY & HAIRTRAP PIPING RISER DETAIL

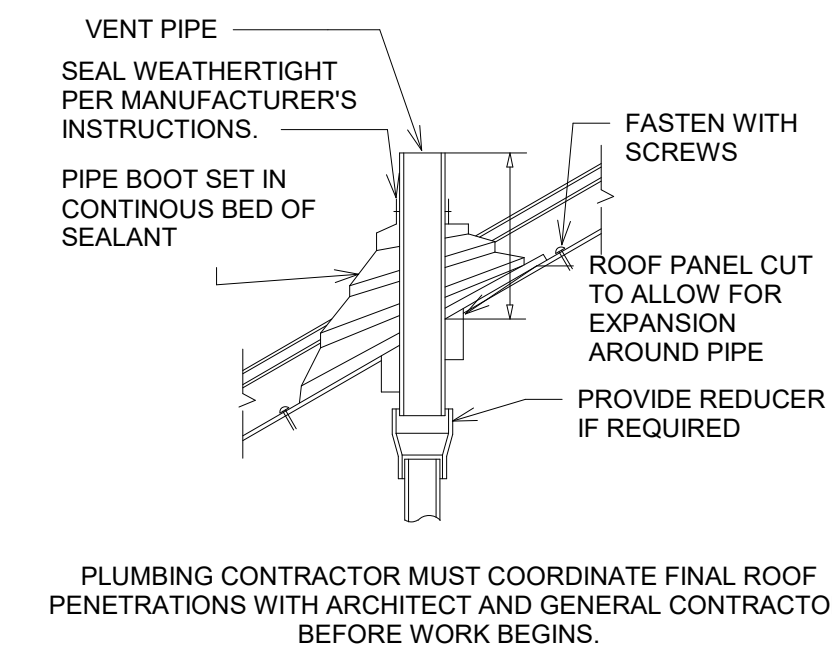
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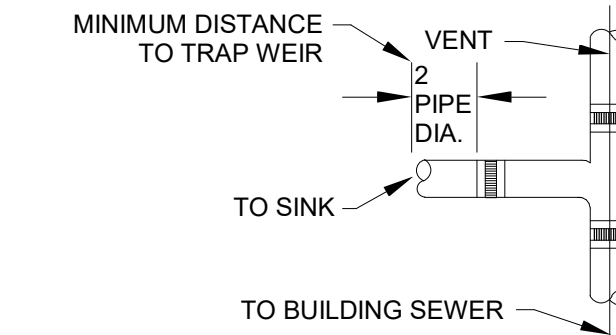
1 KENNEL FLOOR SLOPING DETAIL SCALE: NTS



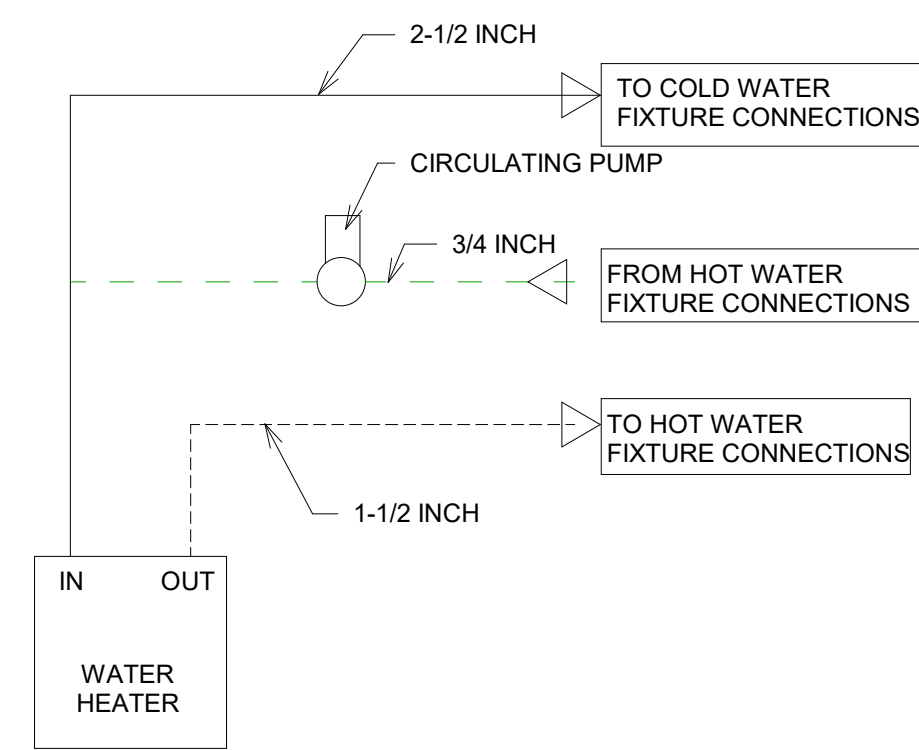
2 TRAP PRIMER AND FLOOR DRAIN DETAIL SCALE: NTS



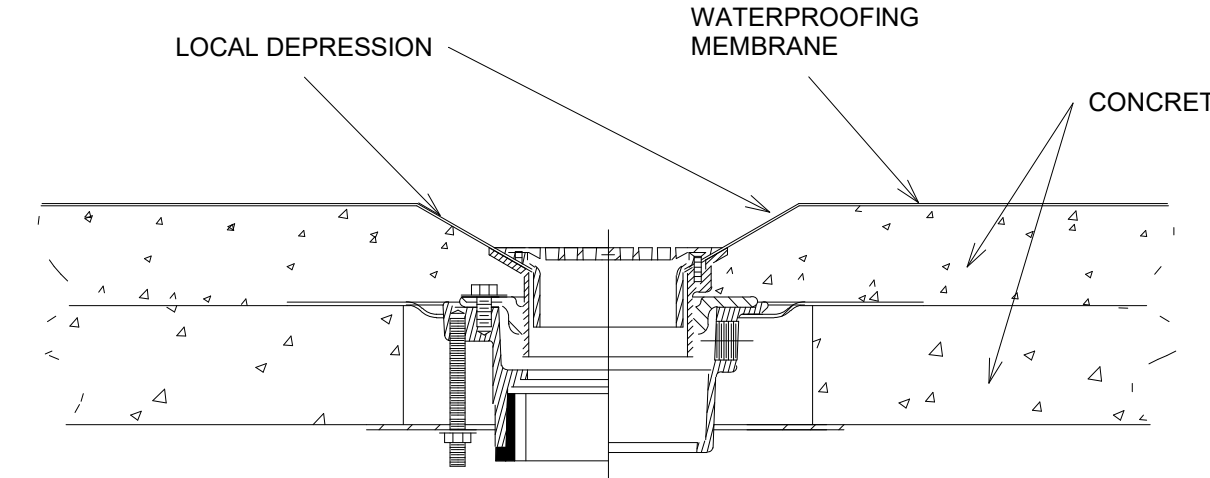
3 DETAIL FOR VENT THROUGH ROOF SCALE: NTS



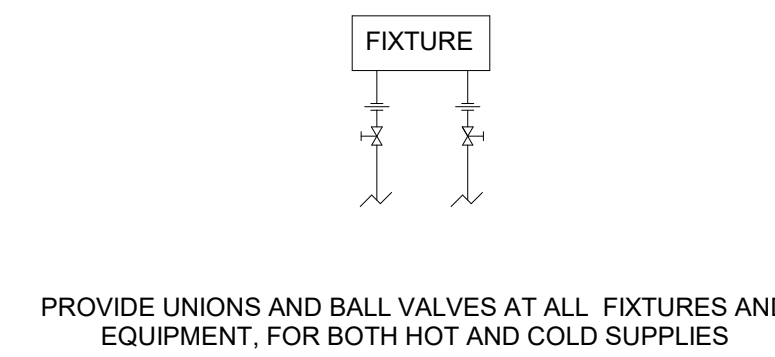
4 VENT DETAIL SCALE: NTS



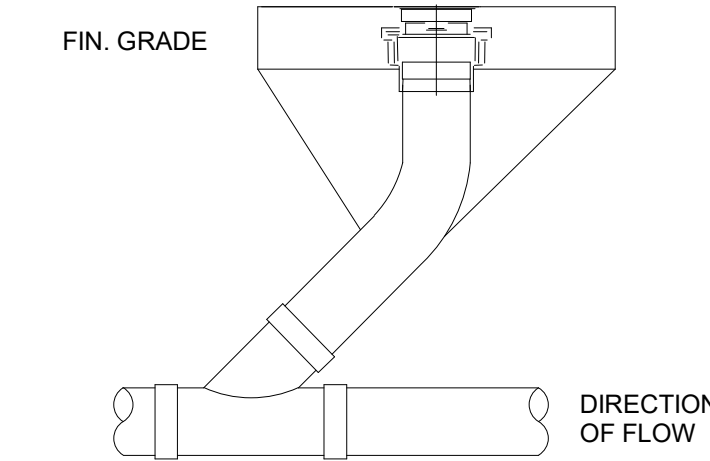
5 HOT WATER RECIRCULATION DETAIL SCALE: NTS



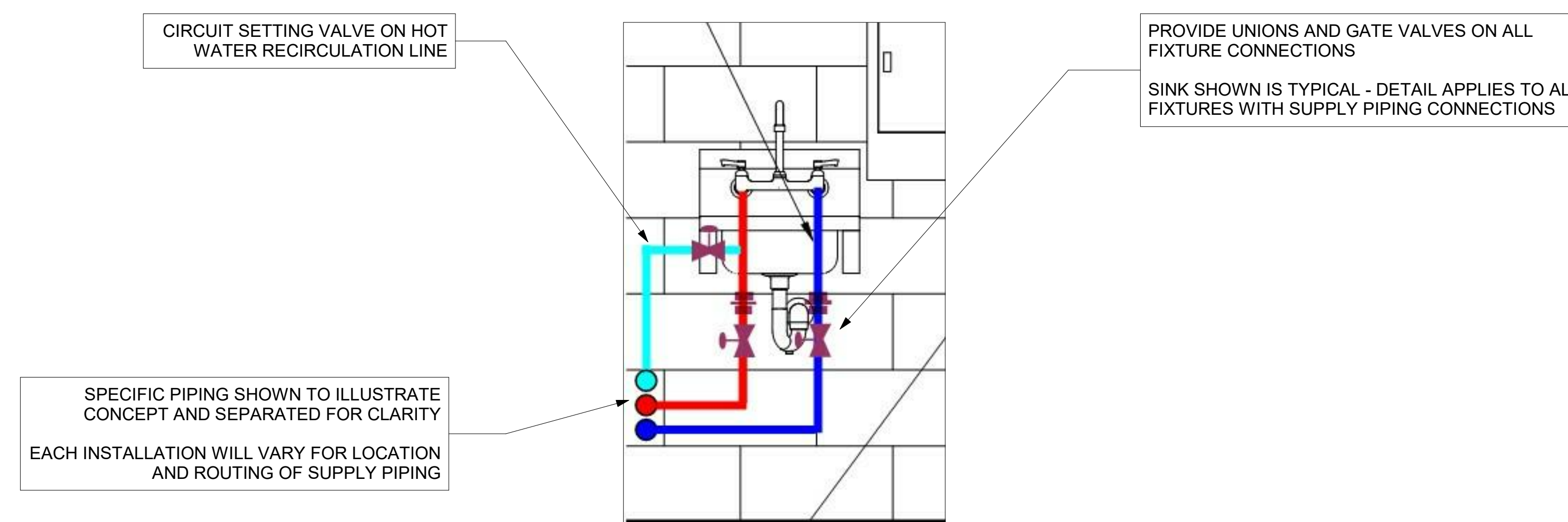
6 FLOOR DRAIN DEPRESSION DETAIL SCALE: NTS



7 PLUMBING FIXTURE DETAIL SCALE: NTS



8 FLOOR CLEANOUT DETAIL SCALE: NTS



9 HOT WATER RECIRCULATION CONNECTION SCALE: NTS



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PLUMBING DETAILS &
ABBREVIATIONS
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PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	QUANTITY	CWFU	TOTAL CWFU	HWFU	TOTAL HWFU	COMB SFU	TOTAL COMB. SFU	DFU	TOTAL DFU	CW CONN.	HW CONN.	DRAIN CONN.	ELEC. REQ'D	COMMENTS
SD-1	DRAIN - Double Bowl Sink	JUST MFG	J-35 DRAIN	2	0	0	0	0	0	0	2	4	0"	0"	1 1/2"	NO	
RD-2	DRAIN - Roof	Zum Industries, LLC	Z100	1	0	0	0	0	0	0	0	0	0"	0"	4"	NO	
RD-1	DRAIN - Roof Combination	Zum Industries, LLC	Z163	2	0	0	0	0	0	0	2	4	0"	0"	4"	NO	
TD-1	DRAIN - Trench	ZURN	Z886	4	0	0	0	0	0	0	3	12	0"	0"	4"	NO	
SD-2	DRAIN - Triple Bowl Sink	ELKAY	LK99	3	0	0	0	0	0	0	2	6	0"	0"	1 1/2"	NO	
DU-1	EQUIPMENT - 4 Drain Trap Primer Dist. Unit	Precision Plumbing Products	DUJU	2	0	0	0	0	0	0	0	0	1/2"	0"	3/8"	NO	
DT-1	EQUIPMENT - Dry Table	Tristar Vet	Dry Table	1	0	0	0	0	0	0	0	0	0"	0"	0"	NO	
TP-1	EQUIPMENT - Electronic Floor Drain Trap Primer, 115V	Precision Plumbing Products	MP-500-115V	2	0.5	1	0	0	0.5	1	0	0	1/2"	0"	1/2"	YES	
HR-1	EQUIPMENT - Hose Reel	T&S Brass and Bronze Works, Inc.	B-7122-C01	2	3	6	3	6	4	8	0	0	3/8"	3/8"	0"	NO	
UC-1	EQUIPMENT - Utility Chase	Tristar Vet	Utility Chase	1	0	0	0	0	0	0	0	0	0"	0"	0"	NO	
HB-1	EQUIPMENT - Water Connection Cabinet	T&S Brass and Bronze Works, Inc.	B-2339-LR	2	2.25	4.5	2.25	4.5	3	6	0	0	1/2"	1/2"	0"	NO	
WT-1	EQUIPMENT - Wet Table	Tristar Vet	D100-25	1	2.25	2.25	2.25	2.25	3	3	2	2	1/2"	1/2"	2"	NO	ORDER W/ TRISTAR VET TS-100 FAUCET
HY-1	EQUIPMENT - Yard Hydrant	Woodford	W94	4	2.5	10	0	0	2.5	10	0	0	3/4"	0"	0"	NO	
SF-1	FAUCET - Double Bowl Sink	JUST MFG	J-1174-KS	1	3	3	3	3	4	4	0	0	1/2"	1/2"	0"	NO	
EW-1	FAUCET - Eye Wash Attachment	JUST MFG	JG-1100	1	0	0	0	0	0	0	0	0	0"	0"	0"	NO	
FV-1	FAUCET - Flush Fixture Valve	ZURN	Z80842AV-H	2	10	20	0	0	10	20	0	0	1"	0"	0"	NO	
TF-1	FAUCET - Triple Bowl Sink	ELKAY	LK800HA08T4	2	3	6	3	6	4	8	0	0	3/8"	3/8"	0"	NO	
DS-1	SINK - Double Bowl Sink	JUST MFG	DL-ADA-2143-A-GR	1	0	0	0	0	0	0	2	2	0"	0"	0"	NO	
FS-1	SINK - Fecal	Tristar Vet	300-80	1	2.25	2.25	2.25	2.25	0	0	2	2	1/2"	1/2"	2"	NO	ORDER W/ TRISTAR DECK-MOUNTED FAUCET B-1172-TS AND TRISTAR BASKET DRAIN CHF-E38-1010
FF-1	SINK - Flush Fixture	ZURN	Z5420	2	0	0	0	0	0	0	2	4	0"	0"	0"	NO	
HS-1	SINK - Handwash w/ Faucet and Drain	ELKAY	CHSB1716C	1	1.5	1.5	0	0	2	2	0	0	1/2"	1/2"	2"	NO	INCLUDES FAUCET AND DRAIN
TS-1	SINK - Triple Bowl	ELKAY	LTR632210	1	0	0	0	0	0	0	2	2	0"	0"	0"	NO	
TOTAL						56.5		24		62		38					

PRINTING OF PLANS
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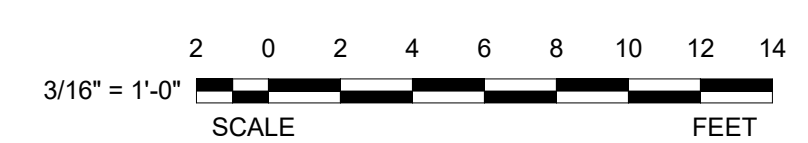
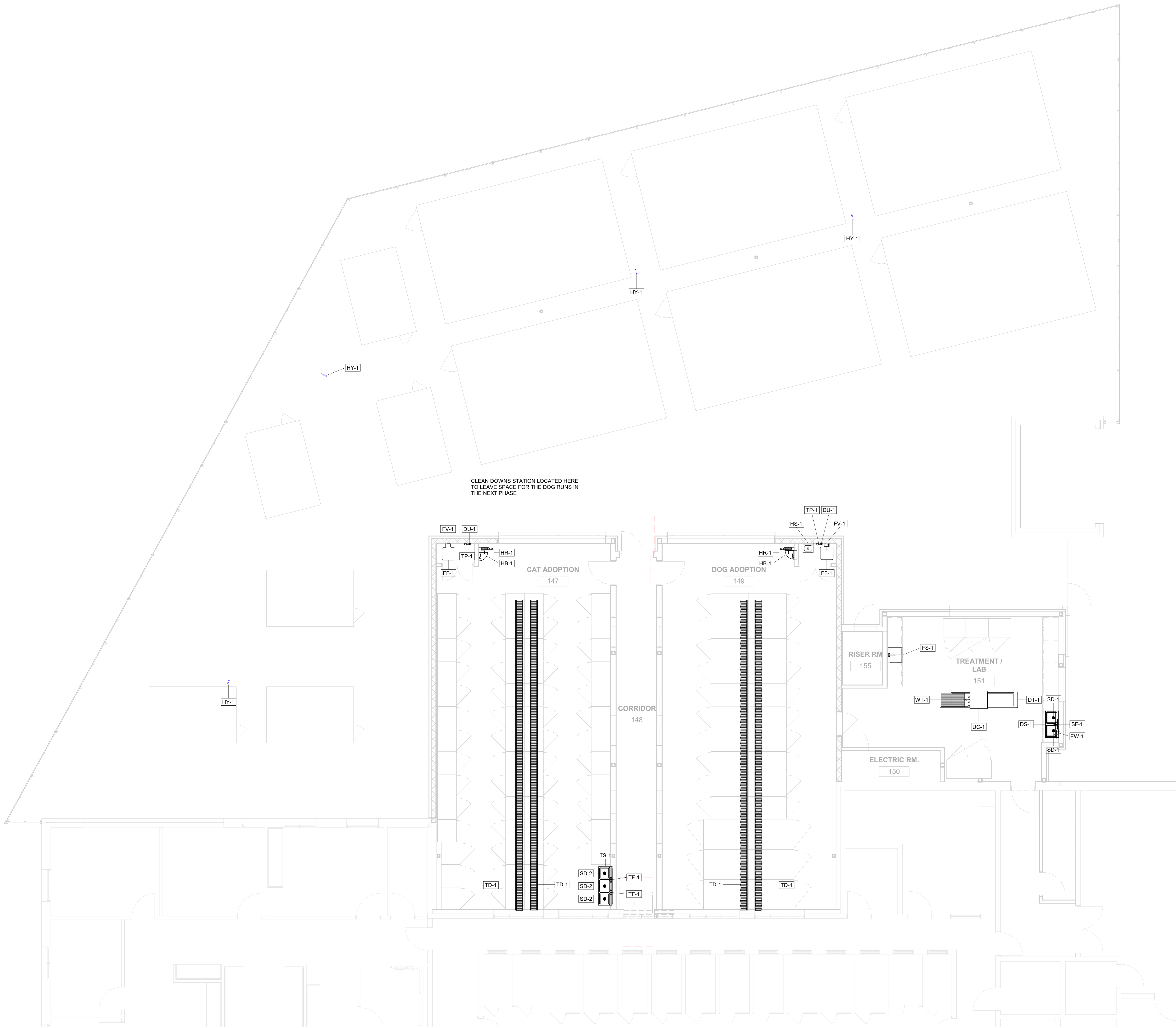
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 PLUMBING FIXTURE
 LAYOUTS

Drawing No.

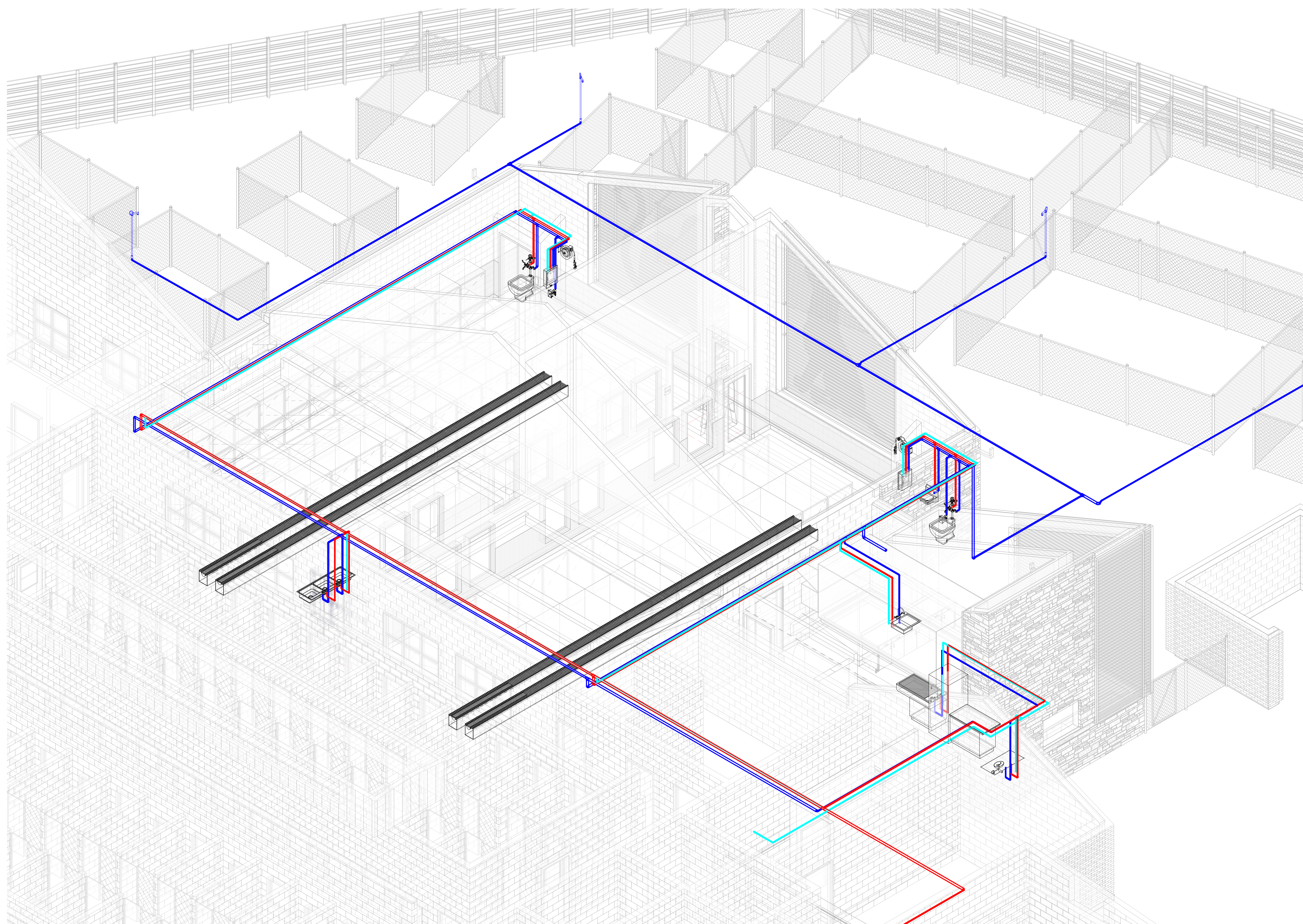
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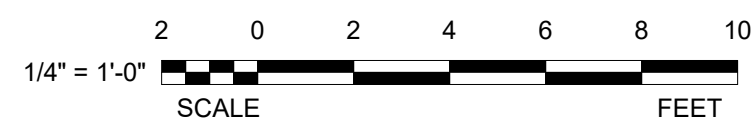
PLUMBING LEGEND:

- ELBOW
- SINGLE WYE
- DOUBLE WYE
- SANITARY TEE
- REDUCER / INCREASER
- CAP / PLUG
- TYPE MARK
- KEYNOTE
- DOMESTIC COLD
- DOMESTIC HOT
- SANITARY DRAIN
- HAIR TRAP DRAIN
- VENT
- OXYGEN SUPPLY
- SCAVENGER
- HOT WATER RECIRC.
- WET/DRY VAC
- STORM DRAIN
- CONDENSATE
- TRENCH WASHDOWN
- TRAP PRIMER
- NATURAL GAS

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2/11/2022 9:33:17 AM



Mesquite Animal Shelter
1650 Gross Rd,
Mesquite, TX 75149



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Date:
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Project No.
MESQU TX

Drawn By:
RAS

Checked By:
CSL

Sheet Title:
SUPPLY PIPING RISER
DETAIL

Drawing No.

P4.20

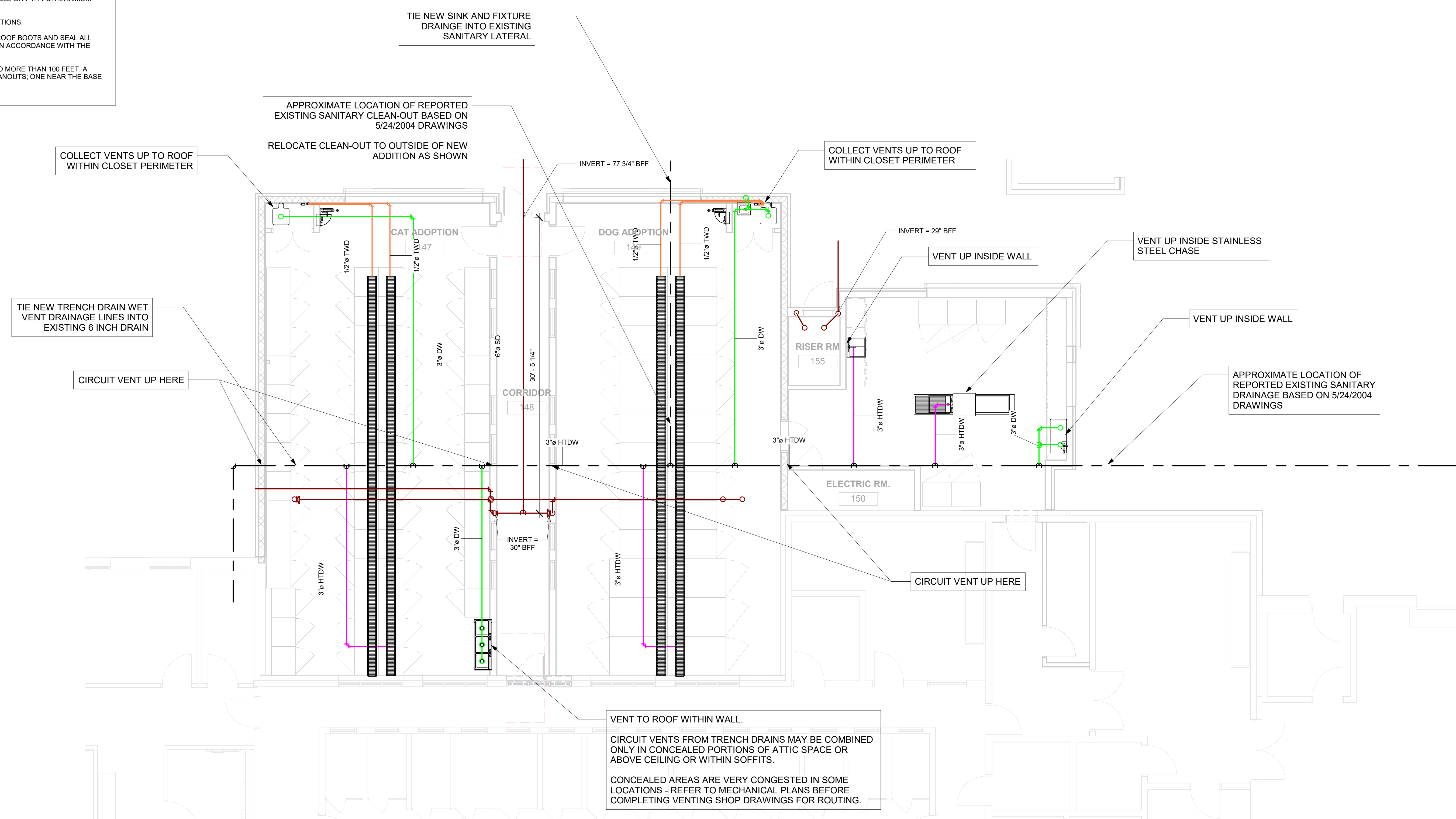
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SANITARY DRAIN AND VENT SCOPE OF WORK

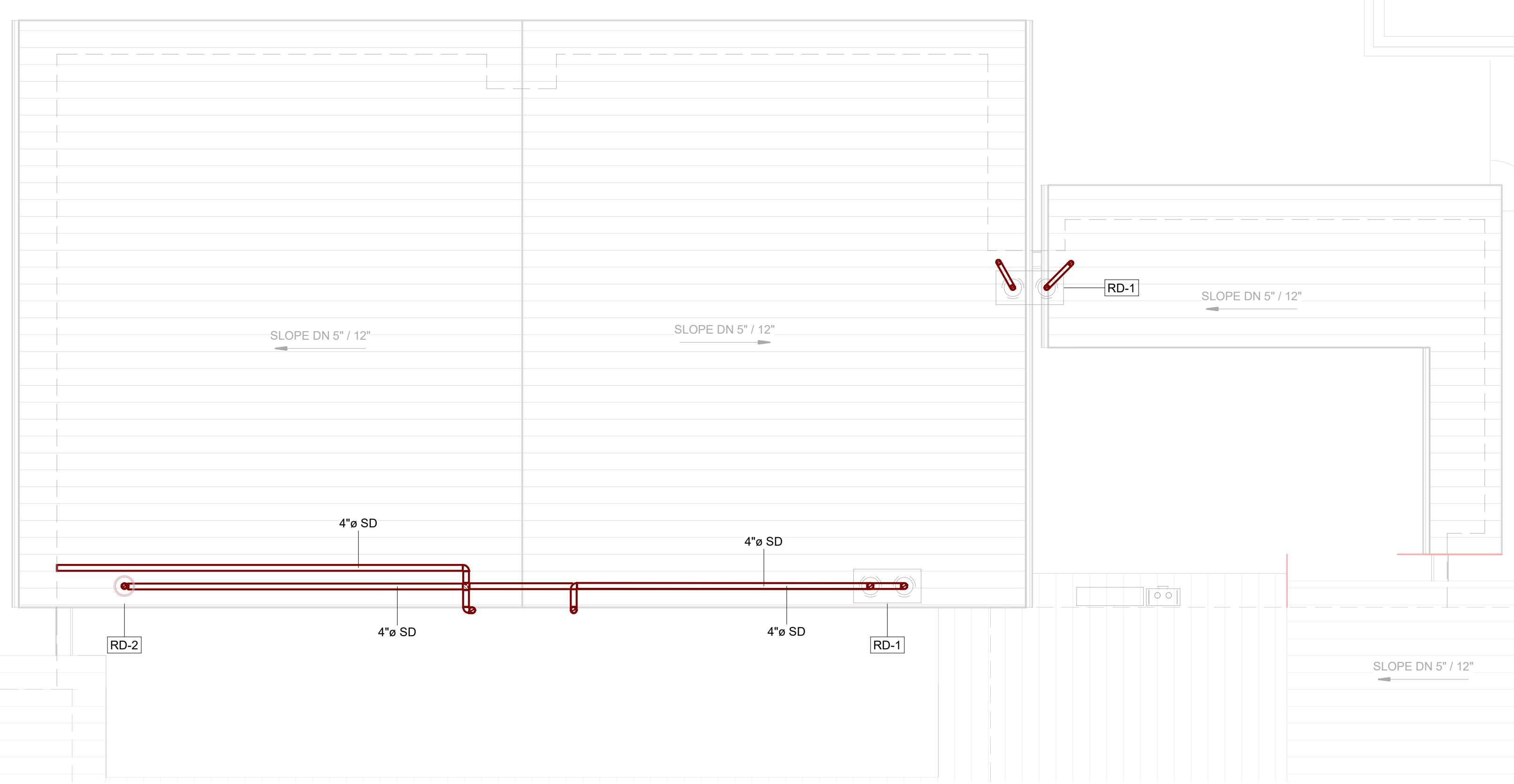
1. THE DRAINAGE SYSTEMS SHALL BE DIRECTED OUT OF THE BUILDING AND INTO THE SANITARY SYSTEM AT A SLOPE NO LESS THAN 1/8 INCH PER FOOT. THE ENGINEER SHALL BE PERMITTED TO INSPECT THE PIPING FOR THESE DRAINAGE SYSTEMS BEFORE THEY ARE BACKFILLED.
2. SANITARY DRAINAGE AND VENTING PIPING WITHIN THE BUILDING SHALL BE AS DESCRIBED IN SECTION 22 1005 OF THE SPECIFICATIONS.
3. ALL DRAINAGE AND VENTING PIPING SHALL BE NEATLY SUPPORTED AS REQUIRED BY THE 2015 IPC. REFER TO HANGER SPACING TABLE ON P.1.1 FOR MAXIMUM ALLOWABLE SPACINGS.
4. ALL VENTING SHALL BE NEATLY INSTALLED, WITH ALL VERTICAL VENTS CONCEALED INSIDE OF WALLS BELOW CEILINGS IN ALL LOCATIONS.
5. VENTING SHALL GATHER TOGETHER AS MUCH AS POSSIBLE ABOVE THE CEILING. THE CONTRACTOR SHALL PROVIDE AND INSTALL ROOF BOOTS AND SEAL ALL ROOF PENETRATIONS. ANY VENT PIPES INSTALLED ON THE EXTERIOR OF THE BUILDING SHALL BE PROTECTED AGAINST FREEZING IN ACCORDANCE WITH THE CURRENT PLUMBING CODE.
6. IN ACCORDANCE WITH THE 2015 IPC WITH AMENDMENTS, ALL CLEANOUTS IN HORIZONTAL DRAINAGE LINES SHALL BE SPACED AT NO MORE THAN 100 FEET. A FLOOR DRAIN CLEANOUT MAY BE OMITTED IF THE DRAIN HAS A REMOVABLE STRAINER. BUILDINGS SHALL HAVE AT LEAST TWO CLEANOUTS, ONE NEAR THE BASE OF THE STACK AND ONE AT THE OUTSIDE WALL NEAR THE CONNECTION BETWEEN THE BUILDING DRAIN AND SEWER.

GENERAL NOTES

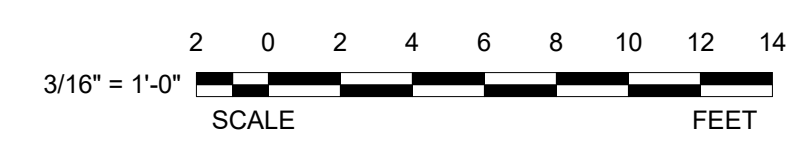
1. ALL BUILDING DRAINAGE PIPING 3 INCHES OR GREATER IN DIAMETER SHALL BE INSTALLED WITH A 1/8 INCH SLOPE PER FOOT AS PER 2015 IPC, TABLE 704.1.
2. ALL HORIZONTAL FIXTURE BRANCH LINES FOR DRAINAGE PIPING 2.5 INCHES OR LESS IN DIAMETER SHALL BE INSTALLED WITH 1/4 INCH SLOPE PER FOOT AND ALL LINES 3 INCHES OR GREATER IN DIAMETER SHALL BE INSTALLED WITH 1/8 INCH SLOPE PER FOOT AS PER 2015 IPC, TABLE 704.1.



VENT TO ROOF WITHIN WALL.
CIRCUIT VENTS FROM TRENCH DRAINS MAY BE COMBINED ONLY IN CONCEALED PORTIONS OF ATTIC SPACE OR ABOVE CEILING OR WITHIN SOFFITS.
CONCEALED AREAS ARE VERY CONGESTED IN SOME LOCATIONS - REFER TO MECHANICAL PLANS BEFORE COMPLETING VENTING SHOP DRAWINGS FOR ROUTING.



ROOF DRAINAGE LAYOUT
SCALE: 3/16" = 1'-0"



PLUMBING LEGEND:

ELBOW	DOMESTIC COLD
SINGLE WYE	DOMESTIC HOT
DOUBLE WYE	SANITARY DRAIN
SANITARY TEE	HAIR TRAP DRAIN
REDUCER / INCREASER	VENT
CAP / PLUG	OXYGEN SUPPLY
TYPE MARK	SCAVENGER
KEYNOTE	HOT WATER RECIRC.
	WET/DRY VAC
	STORM DRAIN
	CONDENSATE
	TRENCH WASHDOWN
	TRAP-PRIMER
	NATURAL GAS

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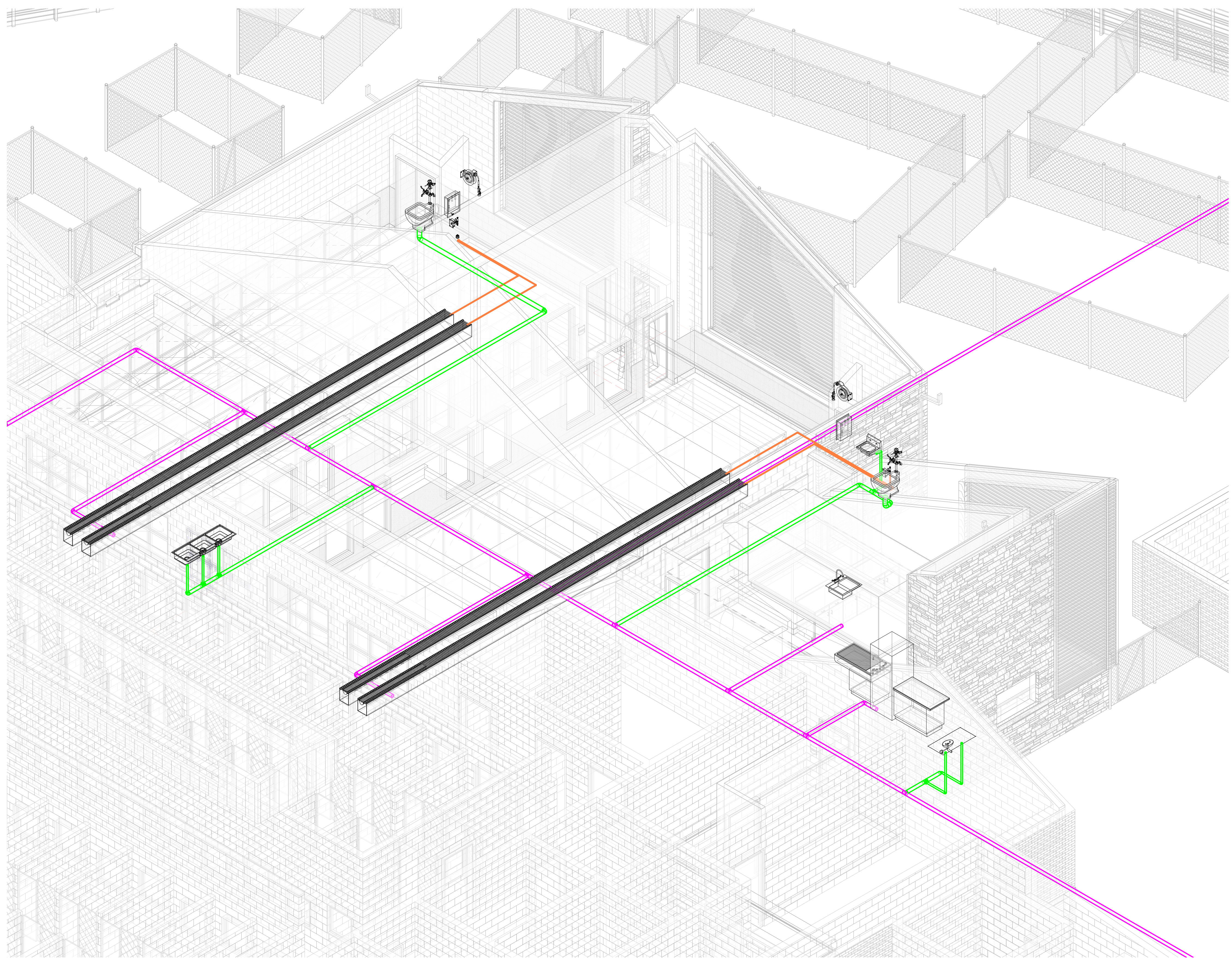
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Date: CONSTRUCTION DOCS 02/11/2022
Project No. MESQU.TX
Drawn By: SNH
Checked By: CSL
Sheet Title: OVERVIEW SANITARY & HAIRTRAP DRAINAGE & VENTING DRAWINGS
Drawing No.

P5.10

PRINTING OF PLANS
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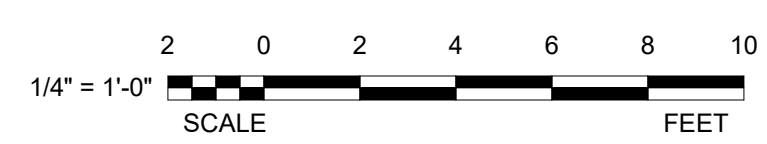
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 SNH
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 CSL
 Sheet Title:
 SANITARY & HAIRTRAP
 PIPING RISER DETAIL
 Drawing No.

PLUMBING LEGEND:

- | | |
|---------------------|-------------------|
| ELBOW | DOMESTIC COLD |
| SINGLE WYE | DOMESTIC HOT |
| DOUBLE WYE | SANITARY DRAIN |
| SANITARY TEE | HAIR TRAP DRAIN |
| REDUCER / INCREASER | VENT |
| CAP / PLUG | OXYGEN SUPPLY |
| TYPE MARK | SCAVENGER |
| KEYNOTE | HOT WATER RECIRC. |
| | WET/DRY VAC |
| | STORM DRAIN |
| | CONDENSATE |
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| | TRAP PRIMER |
| | NATURAL GAS |

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ALL FIRE SPRINKLER PLANS MUST BE PRINTED IN COLOR. IF THIS NOTE DOES NOT APPEAR RED, THE PLANS ARE NOT TO BE USED FOR CONSTRUCTION. ANY CHANGE ORDERS GENERATED DUE TO A FAILURE TO PRINT THESE PLANS IN COLOR ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

SPRINKLER SYSTEM SCOPE OF WORK

THE SPRINKLER WORK CONSISTS OF A NEW SPRINKLER MAIN AND THE EXTENSION OF THE SPRINKLER SYSTEM FOR THE **MESQUITE ANIMAL SHELTER & ADOPTION CENTER, IN MESQUITE, TX**. THE NEW SPRINKLER SYSTEM SHALL INCLUDE THE NEW ADDITION AS WELL AS ALTERATIONS TO THE SPRINKLER HEADS IN THE LOBBY AREA THE ENTIRE SPRINKLER SYSTEM IS DESIGNED AND SHALL BE INSTALLED IN ACCORDANCE WITH THE NFPA 13.

THIS SCOPE-OF-WORK IS PROVIDED AS A GENERAL GUIDE. THE SPRINKLER CONTRACTOR IS TO READ AND UNDERSTAND THIS FIRST.

THE SPRINKLER CONTRACTOR SHALL CONTACT DESIGN LEARNED, INC. WITH ANY QUESTIONS REGARDING ITEMS WHICH ARE TO BE INCLUDED OR EXCLUDED IN THE CONSTRUCTION. THE SPRINKLER CONTRACTOR SHALL PROVIDE AND INSTALL ALL OF THE SPRINKLER PIPING AND EQUIPMENT INDICATED IN THIS SCOPE, ON THE DRAWINGS, AND IN THE SPECIFICATIONS, UNLESS OTHERWISE INDICATED. THE SPRINKLER CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR READING AND UNDERSTANDING ALL ARCHITECTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL DRAWINGS PRIOR TO BIDDING AND COMMENCING WORK. ANY QUESTIONS OR SUGGESTIONS FOR ALTERATION TO THIS DESIGN ARE TO BE DIRECTED TO THE ENGINEER, DESIGN LEARNED, INC. (860) 889-7078.

THIS PROJECT INCLUDES ALL PIPING AND EQUIPMENT TO CREATE A SPRINKLER SYSTEM THAT SERVES HE NEW ADDITION, LOBBY AREA AND NEW FIRE SPRINKLER MAIN. THE SPRINKLER SYSTEM IS DESIGNED AS A WET SYSTEM. THE PIPING FOR THE SYSTEM WILL BE RUN ABOVE THE CEILINGS BETWEEN STRUCTURAL MEMBERS SO AS NOT TO INTERFERE WITH DUCTWORK OR OTHER BUILDING SYSTEM COMPONENTS.

SPRINKLER DRAWINGS PROVIDE A GENERAL DESIGN INTENTION ONLY. SPRINKLER CONTRACTOR SHALL REVIEW THE EXISTING CONDITIONS AND VERIFY PIPE SIZES AND CONNECTIONS.

SPRINKLER CONTRACTOR IS TO PROVIDE A DESIGNED SYSTEM BY A NICET CERTIFIED OR P.E. SUITABLE FOR PERMIT. SPRINKLER CONTRACTOR TO VERIFY HYDRANT TEST DATA AND PROVIDE HYDRAULIC CALCULATIONS AS A SUBMITTAL WITH THE SHOP DRAWINGS. ALL SUPPORTING DOCUMENTATION SHALL BE PROVIDED TO THE PROJECT ENGINEER (DESIGN LEARNED, INC. 860-889-7078), AS WELL AS TO THE LOCAL FIRE MARSHAL.

THIS SPRINKLER SYSTEM SHALL BE IN COMPLIANCE WITH NFPA 13. ALL EQUIPMENT AND PIPING SHALL BE NEW, LISTED PRODUCTS. THE SPRINKLER CONTRACTOR SHALL SUBMIT MANUFACTURER'S CUT SHEETS FOR ALL FIXTURES AND EQUIPMENT TO DESIGN LEARNED, INC. FOR APPROVAL. THE SPRINKLER CONTRACTOR SHALL PROVIDE ALL FIXTURES, PIPING, FITTINGS, ACCESSORIES, AND INSTALLATIONS TO CREATE NEAT, OPERATING SYSTEMS ACCEPTABLE TO THE ENGINEER AND TO LOCAL AUTHORITIES HAVING JURISDICTION.

BEFORE CONSTRUCTION BEGINS, THE SPRINKLER CONTRACTOR IS RESPONSIBLE FOR SECURING AND PAYING FOR ALL PERMITS NECESSARY TO COMPLETE THIS INSTALLATION. THE SPRINKLER CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING AND COORDINATING WITH LOCAL BUILDING AUTHORITIES AND FIRE MARSHALL TO ENSURE THAT THIS SYSTEM IS INSTALLED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.

FIRE ALARM COORDINATION

CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH THE FIRE ALARM ELECTRICIAN TO ENSURE THAT ALL PARTS OF THE SPRINKLER SYSTEM THAT ARE REQUIRED TO BE CONNECTED TO THE FACP ARE CONNECTED PER MANUFACTURERS INSTRUCTIONS.

FIRE STOP SYSTEM NOTES

CONTRACTOR SHALL PROVIDE AND INSTALL AT ALL WALL AND FLOOR PENETRATIONS A PERMANENT FIRE STOP SYSTEM. THE PENETRATION SEAL MATERIAL MUST BE UNAFFECTED BY MOISTURE AND MUST MAINTAIN THE INTEGRITY OF THE FLOOR OR WALL ASSEMBLY FOR ITS RATED TIME PERIOD.

CONTRACTOR NOTES

PER NFPA 13, SECTION 8.16.3, READILY REMOVABLE FITTINGS SHALL BE PROVIDED AT THE END OF ALL CROSS MAINS. ALL CROSS MAINS SHALL TERMINATE IN 1-1/4" OR LARGER PIPE.

SPRINKLER CONTRACTOR IS TO PROVIDE AND INSTALL ALL PIPING, VALVES, AND FITTINGS REQUIRED FOR ALL NEW BRANCH MAINS TO SERVE THE HEAD LAYOUT AS SHOWN ON THESE DRAWINGS. THE SYSTEM IS TO BE TESTED BY THE INSTALLING CONTRACTOR WITH THE FIRE MARSHAL AND THE ENGINEER PRESENT TO WITNESS THE FINAL TESTING.

SPRINKLER HEADS SHOULD BE LOCATED BELOW HORIZONTAL OBSTRUCTIONS IN ACCORDANCE WITH NFPA 13 WHERE CLEARANCE AND COVERAGE ISSUES ARE ENCOUNTERED. CONTRACTOR TO COORDINATE PRECISE ROUTING OF SPRINKLER PIPING WITH OTHER BUILDING SYSTEM COMPONENTS (I.E. DUCTWORK, PLUMBING, ELECTRICAL, LIGHTING). ANY COORDINATION ISSUES ENCOUNTERED SHALL BE REPORTED IMMEDIATELY TO DESIGN LEARNED, INC.

ATTENTION: SUBMITTALS ARE REQUIRED

DO NOT INSTALL WORK WITHOUT APPROVED SHOP DRAWINGS. SHOULD THE CONTRACTOR PROCEED WITHOUT SUBMITTALS AND APPROVALS OF SUBMITTALS, ANY COSTS INCURRED TO CORRECT PROBLEMS THAT COULD HAVE BEEN CORRECTED BY SUBMISSION OF SAID DRAWINGS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, EVEN IF SUCH CORRECTION IS ABOVE THE CONTRACTOR'S ORIGINAL CONTRACT RESPONSIBILITIES.

SPRINKLER SUBMITTAL REQUIREMENTS

SUBMITTAL INFORMATION SHALL BE SUBMITTED AND APPROVED BEFORE THE RELATED INSTALLATION MAY COMMENCE. ANY DEVIATION IN DESIGN DURING THE INSTALLATION PROCESS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. THE INSTALLING CONTRACTOR SHALL PROVIDE THE ENGINEER WITH FIVE COPIES OF THE FOLLOWING DOCUMENTS FOR APPROVAL:

1. MANUFACTURER'S DATA SHEETS FOR ALL EQUIPMENT ARE TO BE SUBMITTED TO THE ENGINEER FOR APPROVAL REGARDLESS OF DEVIATIONS. PROVIDE SHOP DRAWINGS FOR ALL SYSTEMS.
2. PIPING SHOP DRAWINGS INDICATING DEVIATIONS FROM DESIGN, MAJOR CHANGES IN FITTINGS AND ROUTING, PENETRATIONS, AND INTERFERENCES.

GENERAL CONTRACTOR COORDINATION

THE GENERAL CONTRACTOR IS SOLELY RESPONSIBLE TO FIELD VERIFY COORDINATION OF DUCTWORK, LIGHTING, SPRINKLER HEADS, CEILING TILES, AND STRUCTURAL OBSTRUCTIONS. SUBMIT COORDINATED REFLECTED CEILING PLANS FOR APPROVAL PRIOR TO INSTALLATION. SCHEDULING, SEQUENCE OF INSTALLATION, EQUIPMENT CHANGES, CONTRACTOR PREFERENCES, AND ACCUMULATION OF VARIATIONS IN MEASUREMENT AND INSTALLATION ALL CONTRIBUTE TO CONFLICTS IN CONSTRUCTION.

DESIGN LEARNED, INC. WILL INSPECT INSTALLATION DURING AND AFTER CONSTRUCTION TO ENSURE CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS.

GENERAL CONTRACTOR IS RESPONSIBLE FOR MAKING SURE THAT ALL SUB-CRONTACTORS ADHERE TO ALL DRAWINGS, SPECIFICATIONS, AND ADDENDA EXACTLY.

GENERAL CONTRACTOR IS RESPONSIBLE FOR THE COST OF REWORK ASSOCIATED WITH ANY UNAPPROVED DEVIATIONS TO DESIGN. MANY ASPECTS OF OUR DESIGNS FIT CLOSELY. BE ESPECIALLY CAUTIOUS OF ELECTRICAL CONDUIT, PLUMBING PIPING, AND SPRINKLER LINES. THESE FREQUENTLY AND INAPPROPRIATELY ARE ROUTED IN THE FIELD THROUGH SPACES THAT HAVE BEEN RESERVED FOR DUCTWORK.

SPECIFICATIONS

SPECIFICATIONS ARE PROVIDED IN A-SIZE FORMAT AND ARE PART OF THIS CONSTRUCTION DRAWING SET. IT IS THE RESPONSIBILITY OF ALL CONTRACTORS TO READ AND UNDERSTAND ALL SPECIFICATIONS BEFORE BIDDING AND BEFORE BEGINNING WORK. CONTRACTORS WILL BE HELD TO THE SPECIFICATIONS AND DRAWINGS. WE WILL NOT APPROVE ANY CHANGES, REWORK, SUBSTITUTIONS, OR OMISSIONS DUE TO THE CONTRACTOR'S FAILURE TO FOLLOW THE SPECIFICATIONS.

BUILDING CLASSIFICATION

THIS BUILDING IS CLASSIFIED AS ORDINARY HAZARD PER NFPA 13 STANDARDS.

SUBSTITUTIONS

PRODUCT ALTERNATES MAYBE ALLOWED FOR EQUIPMENT AND MATERIALS PROVIDING THE CONTRACTOR ADHERES TO **THE SUBMISSION PROCESS**. NO SUBSTITUTION SHALL BE PROCURED OR INSTALLED WITHOUT EXPRESS WRITTEN APPROVAL OF OWNER AND ENGINEER. REFER TO THE SPECIFICATIONS FOR DETAILS ON SUBMITTAL REQUIREMENTS AND ADDITIONAL PERFORMANCE REQUIREMENTS FOR EQUIPMENT AND MATERIALS. SUBSTITUTIONS ARE ONLY PERMITTED DURING THE BIDDING PROCESS. REQUESTS FOR SUBSTITUTIONS MUST BE COMPLETE WITH MANUFACTURER'S DATA PROVING THAT THE SUBSTITUTION IS AN EQUAL. OR IT WILL NOT BE REVIEWED. THE BURDEN OF PROOF LIES WITH THE CONTRACTOR. A SUBSTITUTION REQUEST DOES NOT GUARANTEE APPROVAL.

FIRE RISER SCHEDULE

DESCRIPTION	MANUFACTURER	MODEL	QTY.	COMMENTS
FIRE ALARM BELL	POTTER	MBA-6-24	1	FACP ASSUMED AT 24 VDC FOR ANNUNCIATION - VERIFY FACP REQUIREMENTS BEFORE SUBMITTING OR PURCHASING
WATERFLOW ALARM SWITCH	POTTER	VSR-6	1	
SWING CHECK VALVE	TYCO	CV-1F	1	
TEST AND DRAIN	AGF	1011A	1	
REDUCED PRESSURE ASSEMBLY	AMES	M500 OSY	1	VERIFY COMPLIANCE WITH MESQUITE BACKFLOW PREVENTION ASSEMBLY INSTALLATION GUIDE
OS&Y SUPERVISORY SWITCH	POTTER	OSYSU	1	

FIRE SPRINKLER SCHEDULE

RESPONSE	COVERAGE	MANUFACTURER	MODEL	DIA	K-FACTOR	NOTES
Standard	Standard	VIKING CORP	VK352	3/4"	8	VK352 - Microfast® Quick Response Pendent Sprinkler (K8.0)

NOTE

THESE DRAWINGS ARE BASED ON THE LATEST ARCHITECTURAL PLANS DATED 10/19/2021.

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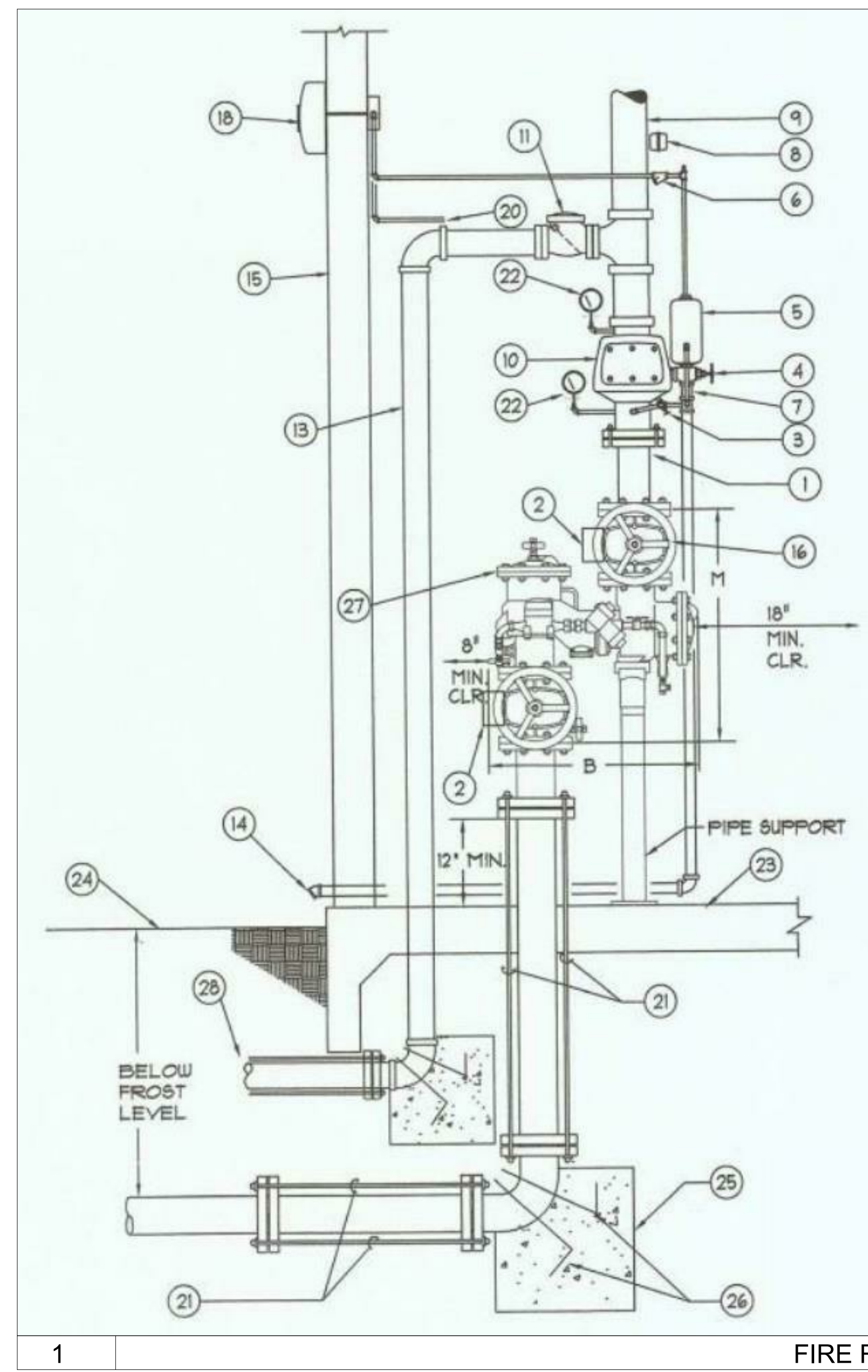
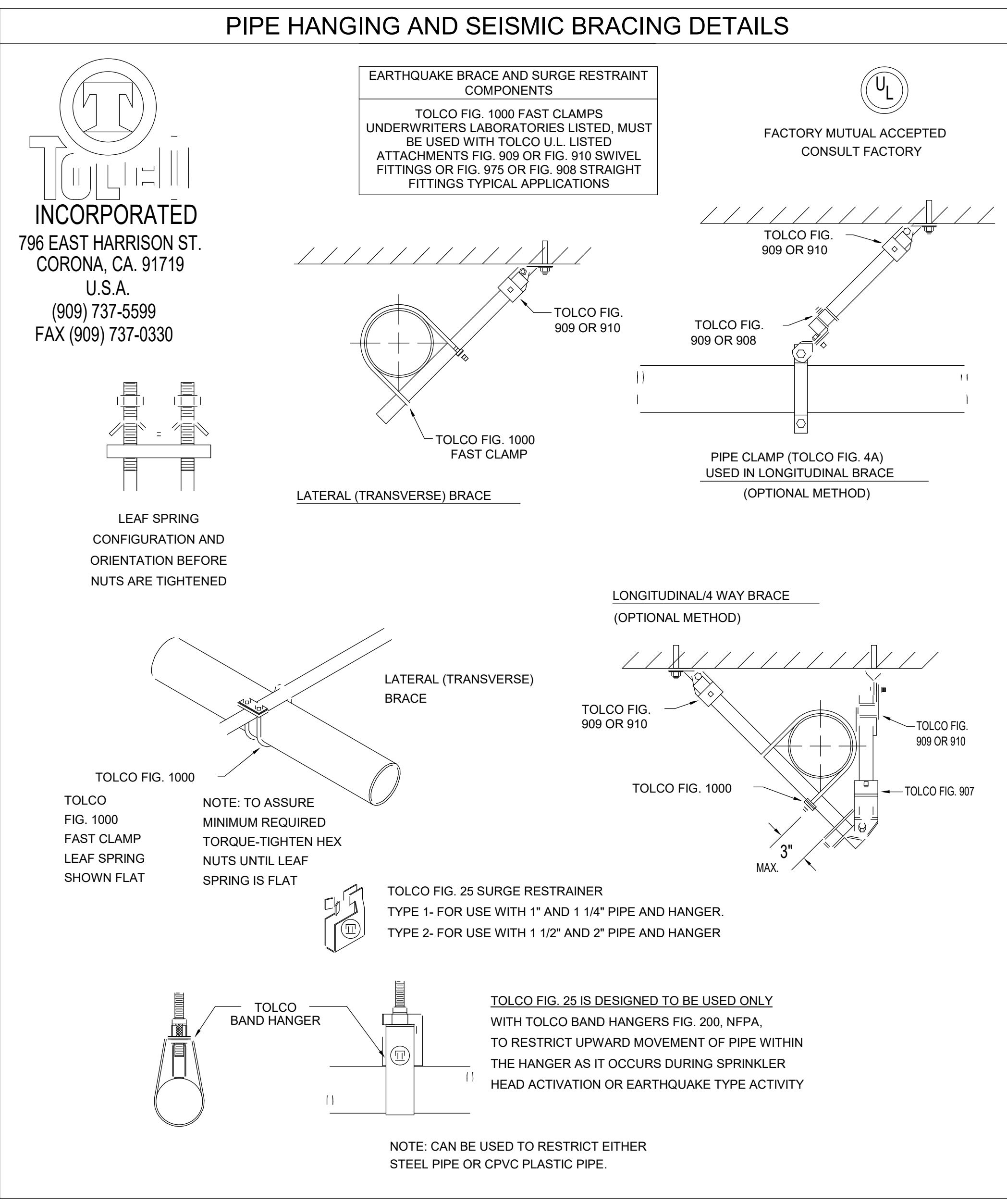
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FIRE SPRINKLER SCOPE & SCHEDULES

Drawing No.

SPRINKLER SHEET LIST

SHEET NUMBER	SHEET NAME
FS1.10	FIRE SPRINKLER SCOPE & SCHEDULES
FS2.10	FIRE SPRINKLER DETAILS & ABBREVIATIONS
FS3.10	FIRE SPRINKLER RISER DIAGRAM & SECTION VIEWS
FS4.10	FIRE SPRINKLERS PLAN VIEWS

FS1.10



1. FIRE PROTECTION SYSTEM TO BE DESIGNED IN ACCORDANCE WITH IFC, NFPA 13. PROVIDE HYDRAULIC CALCULATIONS AND SHOP DRAWINGS FOR APPROVAL PRIOR TO CONSTRUCTION.
2. TAMPER SWITCH
3. TEST DRAIN VALVE
4. SYSTEM MAIN DRAIN VALVE
5. RETARD CHAMBER
6. STRAINER (TRIM)
7. ALARM TEST SHUT-OFF VALVE
8. WATER FLOW PRESSURE SWITCH TO SPRINKLER SYSTEM
9. WET PIPE ALARM CHECK VALVE
10. 6" CHECK VALVE
11. NOT USED
12. 6" TO WALL TYPE SIAMESE
13. COMBINED DRAIN THRU WALL
14. EXTERIOR WALL
15. OS&Y GATE VALVE
16. NOT USED
17. WATER MOTOR GONG
18. NOT USED
19. CONNECT DRAIN LINES TO MAIN DRAIN VIA AIR GAP FITTING
20. THRUST RESTRAINT RODS
21. WATER PRESSURE GAGE & VALVE
22. FINISHED FLOOR
23. FINISHED GRADE
24. CONCRETE THRUST BLOCK 42" X 42" X 36"
25. TWO 3/4" STEEL RODS BENT AROUND FITTING AND ANCHORED IN THRUST BLOCK (TAR COAT ALL EXPOSED STEEL)
26. UL LISTED, FM APPROVED DOUBLE CHECK/DETECTOR ASSEMBLY WITH OS&Y GATE VALVES. FEBCO MODEL 876V
27. FIRE DEPARTMENT CONNECTION

NOTE:
 1. A COPY OF THE TEST REPORT FOR THIS DEVICE SHALL BE SUBMITTED TO THE CITY FIRE MARSHAL. THE TEST SHALL BE PERFORMED BY A STATE-LICENSED AND CITY REGISTERED FIRELINE TESTER WHO IS A FULL TIME EMPLOYEE OF A STATE-LICENSED FIRE SPRINKLER INSTALLER.

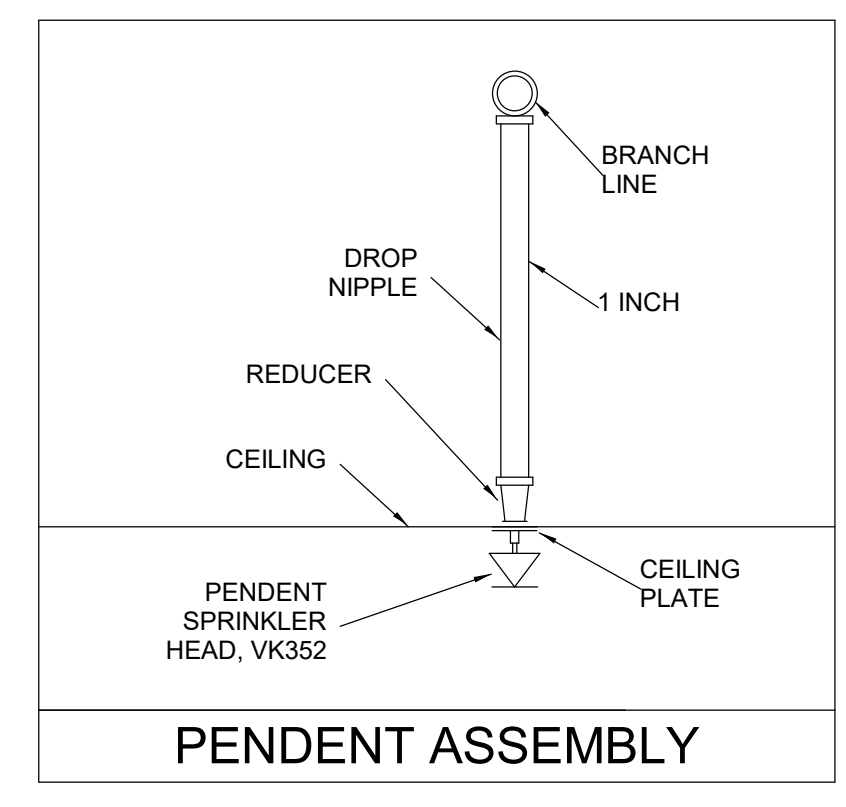
HORIZONTAL OBSTRUCTIONS

DISTANCE FROM SPRINKLERS TO SIDE OF OBSTRUCTION (A)	MAXIMUM ALLOWABLE DISTANCE OF DEFLECTOR ABOVE BOTTOM OF OBSTRUCTION (IN.) (B)
LESS THAN 1 FOOT	0
1 FT TO LESS THAN 1 FT 6 IN	2.5
1 FT 6 IN TO LESS THAN 2 FT	3.5
2 FT TO LESS THAN 2 FT 6 IN	5.5
2 FT 6 IN TO LESS THAN 3 FT	7.5
3 FT TO LESS THAN 3 FT 6 IN	9.5
3 FT 6 IN TO LESS THAN 4 FT	12
4 FT TO LESS THAN 4 FT 6 IN	14
4 FT 6 IN TO LESS THAN 5 FT	16.5
5 FT TO LESS THAN 5 FT 6 IN	18
5 FT 6 IN TO LESS THAN 6 FT	20
6 FT TO LESS THAN 6 FT 6 IN	24
6 FT 6 IN TO LESS THAN 7 FT	30
7 FT TO LESS THAN 7 FT 6 IN	35

POSITION OF SPRINKLERS TO AVOID OBSTRUCTIONS TO DISCHARGE (STANDARD UPRIGHT AND PENDENT SPRAY SPRINKLERS) (2013 NFPA 13, FIGURE 8.6.5.1.2 (a))

NO SCALE

OBSTRUCTION LIMITATIONS ON DESIGN



HANGER DETAILS AND SPECIFICATIONS

IN ACCORDANCE TO NFPA 13, SECTION 6-1.1.4, THE SIZE OF THE HANGER RODS AND FASTENERS REQUIRED TO SUPPORT THE STEEL ANGLE IRON OR PIPE SHALL COMPLY WITH THE FOLLOWING TABLES. HOLES AND BOLTS SHALL NOT EXCEED 1/16 INCH GREATER THAN THE DIAMETER OF THE BOLT. BOLTS SHALL BE PROVIDED WITH A FLAT WASHER AND NUT.

PIPE SIZE	DIAMETER OF ROD
UP TO AND INCLUDING 4 IN.	3/8 INCH
5, 6, AND 8 IN.	1/2 INCH
10 AND 12 IN.	5/8 INCH

PIPE SIZE	HOOK MATERIAL DIAMETER
UP TO 2 IN.	5/16 INCH
2 1/2 TO 6 IN.	3/8 INCH
8 IN.	1/2 INCH

PIPE SIZE	DIAMETER OF ROD WITH BENT EYE	
	WITH BENT EYE	WITH WELDED EYE
UP TO 4 IN.	3/8 INCH	3/8 INCH
5 TO 8 IN.	1/2 INCH	1/2 INCH
8 IN.	3/4 INCH	1/2 INCH

MAXIMUM DISTANCE BETWEEN HANGERS FOR BLACK STEEL SPRINKLER PIPING

NOMINAL PIPE SIZE (IN)	MAXIMUM HANGER SPACING (FT-IN)	NOMINAL PIPE SIZE (IN)	MAXIMUM HANGER SPACING (FT-IN)
3/4	N/A	3	15-0
1	12-0	3 1/2	15-0
1 1/4	12-0	4	15-0
1 1/2	15-0	5	15-0
2	15-0	6	15-0
2 1/2	15-0	8	15-0

NOTES: 2013 NFPA 13, TABLE 9.2.2.1 (a)

FIRE SPRINKLER LEGEND:

—	WET SPRINKLER PIPE
▷	HORIZONTAL SIDEWALL SPRINKLER HEAD
⊙	PENDANT SPRINKLER HEAD
●	UP/DOWN SEMI-RECESSED SPRINKLER HEAD
⊗	UP/DOWN SPRINKLER HEAD WITH GUARD

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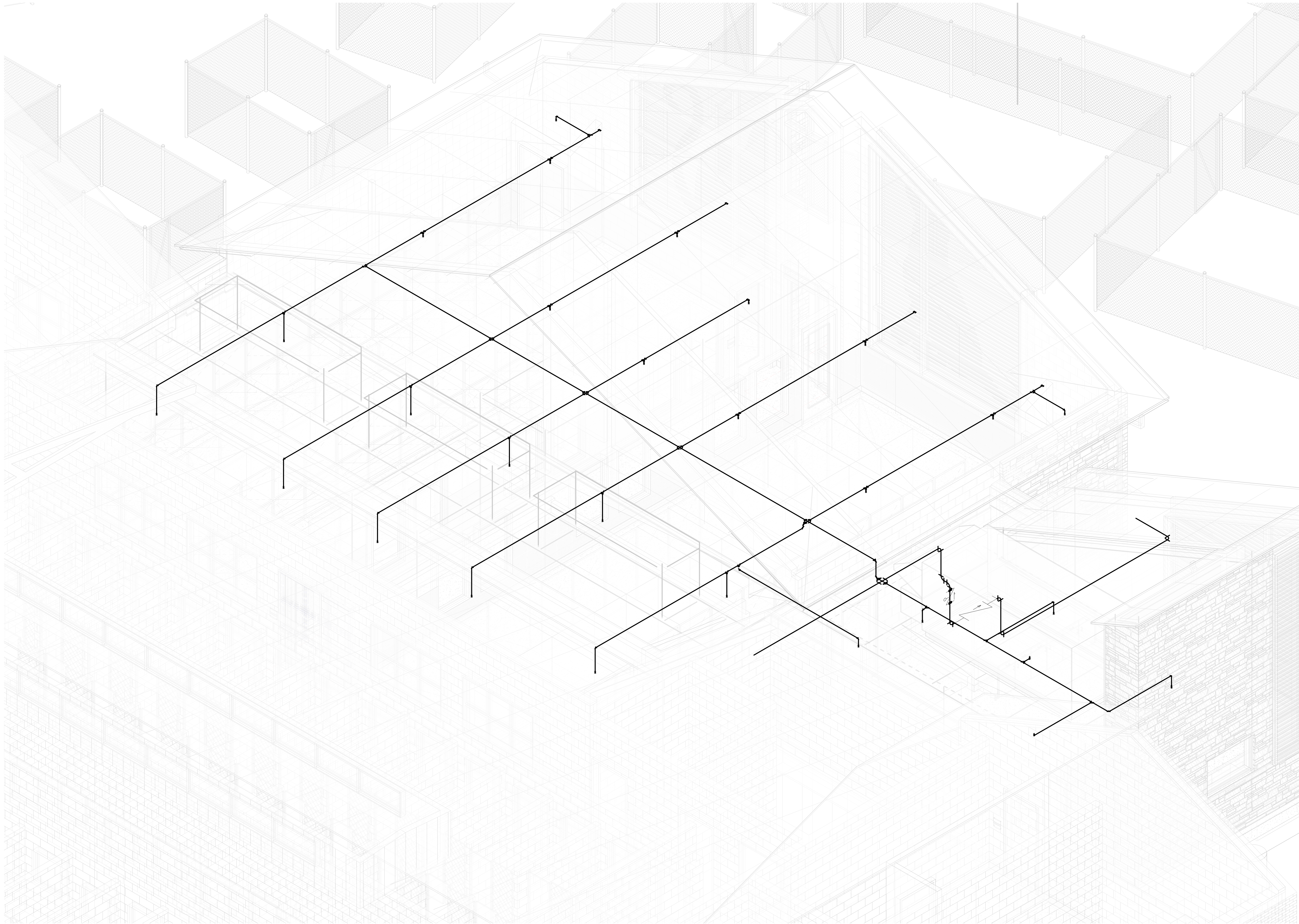
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 FIRE SPRINKLER DETAILS & ABBREVIATIONS
 Drawing No.

FS2.10

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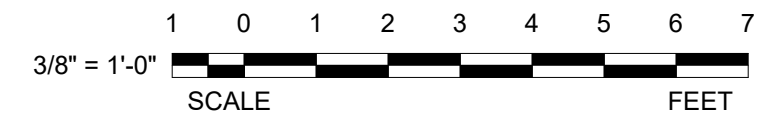
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Date:
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 SNH
 Checked By:
 CSL
 Sheet Title:
 FIRE SPRINKLER RISER
 DIAGRAM & SECTION VIEWS
 Drawing No.

FIRE SPRINKLER LEGEND:

—	WET SPRINKLER PIPE
▷	HORIZONTAL SIDEWALL SPRINKLER HEAD
⊙	PENDANT SPRINKLER HEAD
●	UP/DOWN SEMI-RECESSED SPRINKLER HEAD
⊗	UP/DOWN SPRINKLER HEAD WITH GUARD



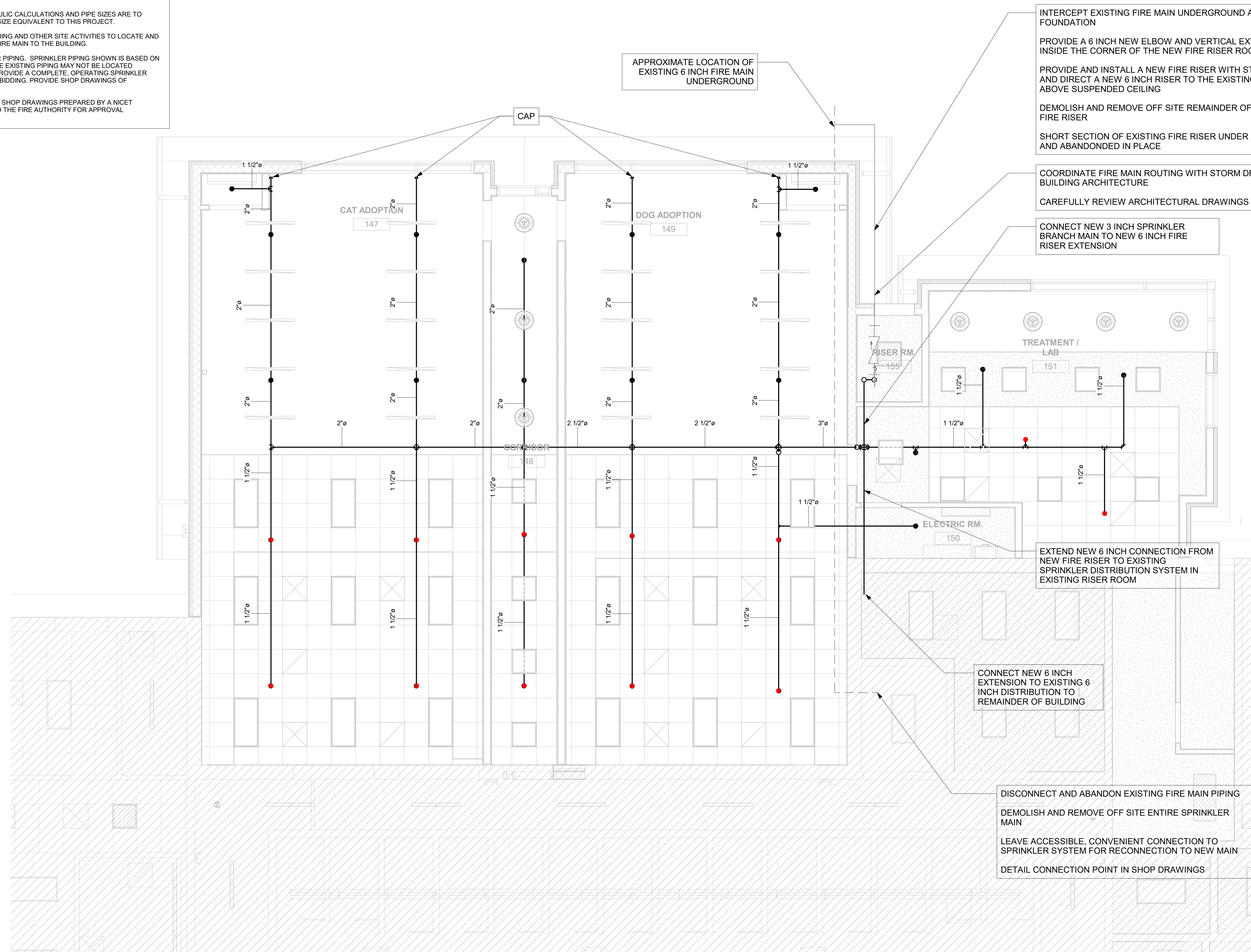
FS3.10

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ALL FIRE SPRINKLER PLANS MUST BE PRINTED IN COLOR. IF THIS NOTE DOES NOT APPEAR RED, THE PLANS ARE NOT TO BE USED FOR CONSTRUCTION. ANY CHANGE ORDERS GENERATED DUE TO A FAILURE TO PRINT THESE PLANS IN COLOR ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

NOTES:

1. SPRINKLER PIPES ARE OVERSIZED TO ACCOMMODATE FOR THE PHASE 2 EXPANSION.
2. CONTRACTOR TO PROVIDE HYDRAULIC CALCULATIONS WITH SHOP DRAWINGS. HYDRAULIC CALCULATIONS AND PIPE SIZES ARE TO ASSUME EXTENSIONS OF THE PROPOSED BRANCH LINES FOR A FUTURE ADDITION OF SIZE EQUIVALENT TO THIS PROJECT.
3. SEE CIVIL PLANS FOR CHANGES IN SITE PLUMBING, COORDINATE EXCAVATION, TRENCHING AND OTHER SITE ACTIVITIES TO LOCATE AND REROUTE FIRE MAIN, DISCONNECT AND REMOVE OR ABANDON EXISTING SECTION OF FIRE MAIN TO THE BUILDING.
4. PROJECT INCLUDES THE EXTENSION, RELOCATION AND RECONNECTION OF SPRINKLER PIPING. SPRINKLER PIPING SHOWN IS BASED ON RECORD DOCUMENTS AND FIELD CONDITIONS MAY VARY. IT IS VERY LIKELY THAT SOME EXISTING PIPING MAY NOT BE LOCATED EXACTLY AS SHOWN. CONTRACTOR TO CARRY ALLOWANCE FOR MODIFICATIONS TO PROVIDE A COMPLETE, OPERATING SPRINKLER SYSTEM. CONTRACTOR TO VISIT THE SITE AND OBSERVE THESE CONDITIONS BEFORE BIDDING. PROVIDE SHOP DRAWINGS OF PROPOSED FINAL PIPING BEFORE COMMENCING WORK OR PURCHASING MATERIALS.
5. PLANS SHOW SPRINKLER DESIGN INTENT. CONTRACTOR TO PROVIDE FULL SPRINKLER SHOP DRAWINGS PREPARED BY A NICET CERTIFIED SPRINKLER DESIGNER OR P.E. STAMPED AND SUITABLE FOR SUBMISSION TO THE FIRE AUTHORITY FOR APPROVAL.



APPROXIMATE LOCATION OF EXISTING 6 INCH FIRE MAIN UNDERGROUND

INTERCEPT EXISTING FIRE MAIN UNDERGROUND AND OUTSIDE OF NEW FOUNDATION
 PROVIDE A 6 INCH NEW ELBOW AND VERTICAL EXTENSION INSIDE THE CORNER OF THE NEW FIRE RISER ROOM
 PROVIDE AND INSTALL A NEW FIRE RISER WITH STAINLESS STEEL BACKFLOW AND DIRECT A NEW 6 INCH RISER TO THE EXISTING FIRE RISER ALONG WALL AND ABOVE SUSPENDED CEILING
 DEMOLISH AND REMOVE OFF SITE REMAINDER OF EXISTING UNDERGROUND FIRE RISER
 SHORT SECTION OF EXISTING FIRE RISER UNDER SLAB MAY BE CUT, CAPPED AND ABANDONED IN PLACE

COORDINATE FIRE MAIN ROUTING WITH STORM DRAINAGE AND BUILDING ARCHITECTURE
 CAREFULLY REVIEW ARCHITECTURAL DRAWINGS FOR DETAILS

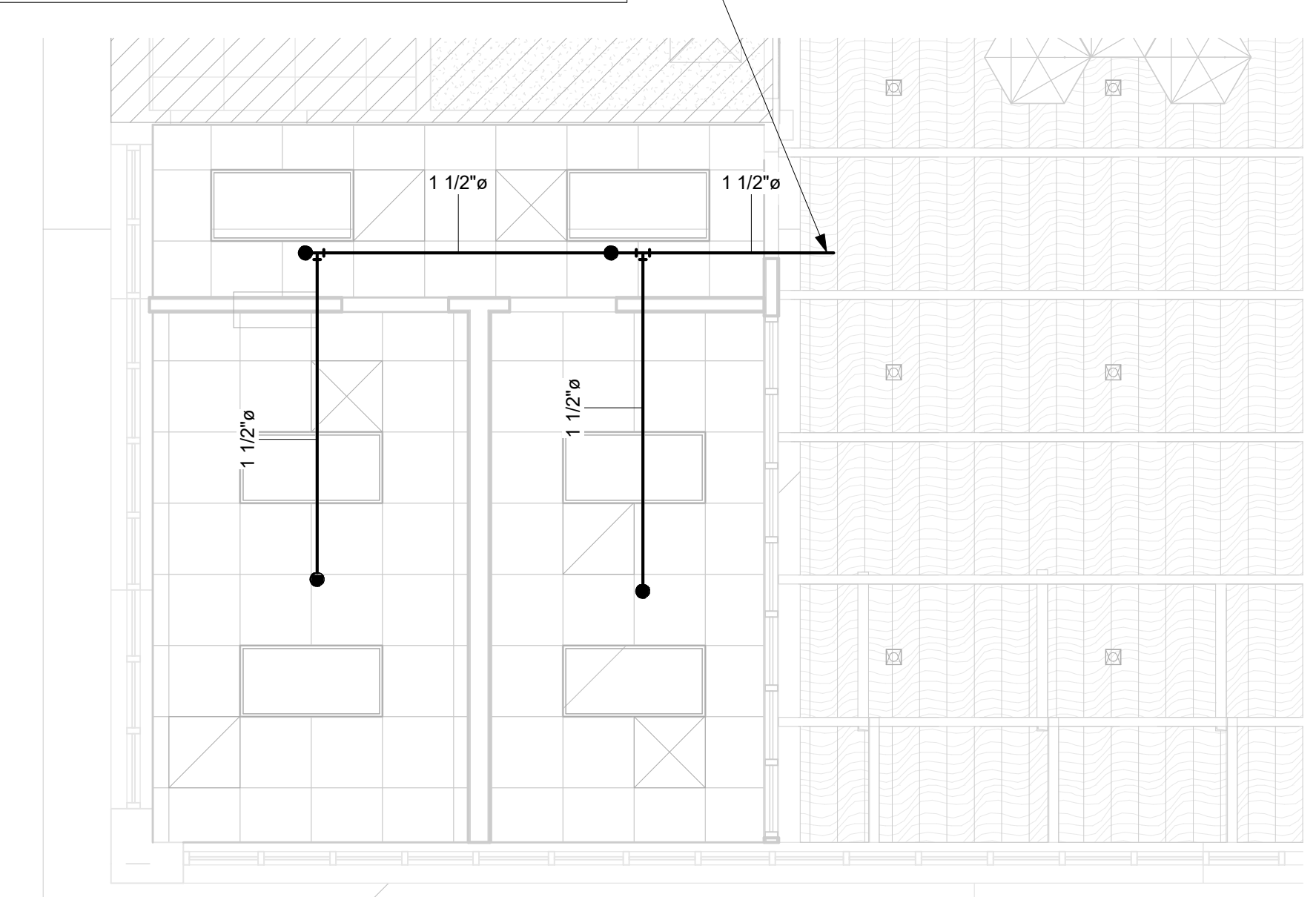
CONNECT NEW 3 INCH SPRINKLER BRANCH MAIN TO NEW 6 INCH FIRE RISER EXTENSION

EXTEND NEW 6 INCH CONNECTION FROM NEW FIRE RISER TO EXISTING SPRINKLER DISTRIBUTION SYSTEM IN EXISTING RISER ROOM

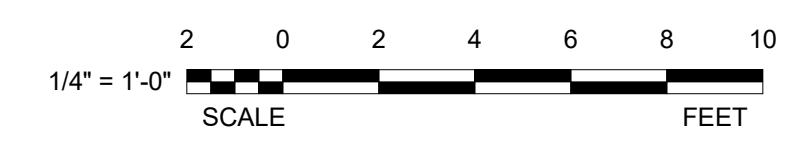
CONNECT NEW 6 INCH EXTENSION TO EXISTING 6 INCH DISTRIBUTION TO REMAINDER OF BUILDING

DISCONNECT AND ABANDON EXISTING FIRE MAIN PIPING
 DEMOLISH AND REMOVE OFF SITE ENTIRE SPRINKLER MAIN
 LEAVE ACCESSIBLE, CONVENIENT CONNECTION TO SPRINKLER SYSTEM FOR RECONNECTION TO NEW MAIN
 DETAIL CONNECTION POINT IN SHOP DRAWINGS

CONNECT THE NEW MEET & GREET SPRINKLER EXTENSION TO THE EXISTING SPRINKLER LINE IN THE LOBBY. EXISTING LOBBY SPRINKLERS ARE TO BE REPAIRED AND REPLACED AS NEEDED.



LOBBY/MEET & GREET SPRINKLER LAYOUT
 SCALE: 1/4" = 1'-0"



FIRE SPRINKLER LEGEND:

—	WET SPRINKLER PIPE
▷	HORIZONTAL SIDEWALL SPRINKLER HEAD
⊙	PENDANT SPRINKLER HEAD
●	UP/DOWN SEMI-RECESSED SPRINKLER HEAD
⊗	UP/DOWN SPRINKLER HEAD WITH GUARD

Mesquite Animal Shelter
 1650 Gross Rd,
 Mesquite, TX 75149



CONSTRUCTION DOCUMENTS

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Revisions:

REV.	DATE	TITLE

Date:
 CONSTRUCTION DOCS
 02/11/2022
 Project No.
 MESQU TX
 Drawn By:
 SNH
 Checked By:
 CSL
 Sheet Title:
 FIRE SPRINKLERS PLAN
 VIEWS
 Drawing No.

FS4.10