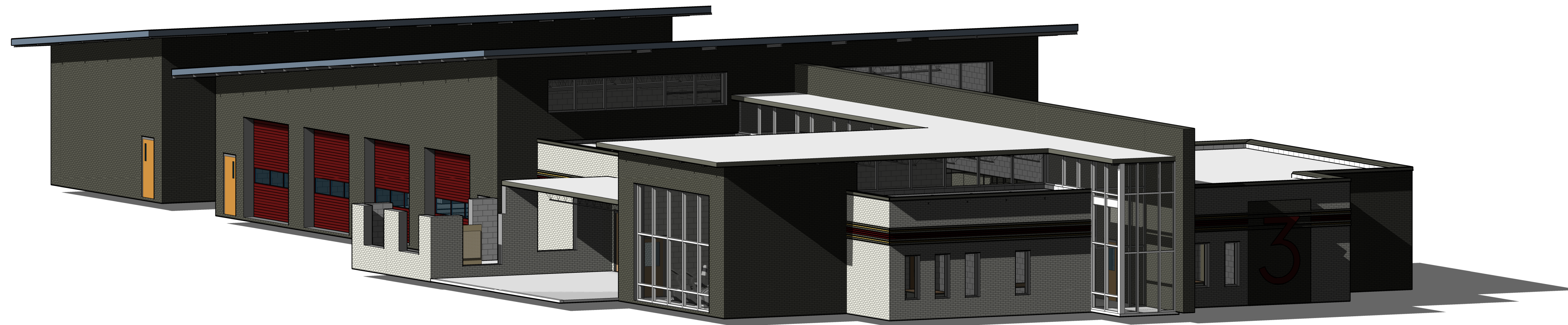


FIRE STATION 3

The City of Mt Juliet

4370 Old Lebanon Dirt Road
Mt Juliet, TN 37122



INDEX OF DRAWINGS

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C-1 CONCEPT SITE PLAN
C-2 CONCEPT GRADING PLAN
A2.1 FLOORPLAN
A3.1 PRESENTATION ELEVATIONS
A4.1 BUILDING SECTIONS
A6.1 REFLECTED CEILING PLAN

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FIRE STATION 3

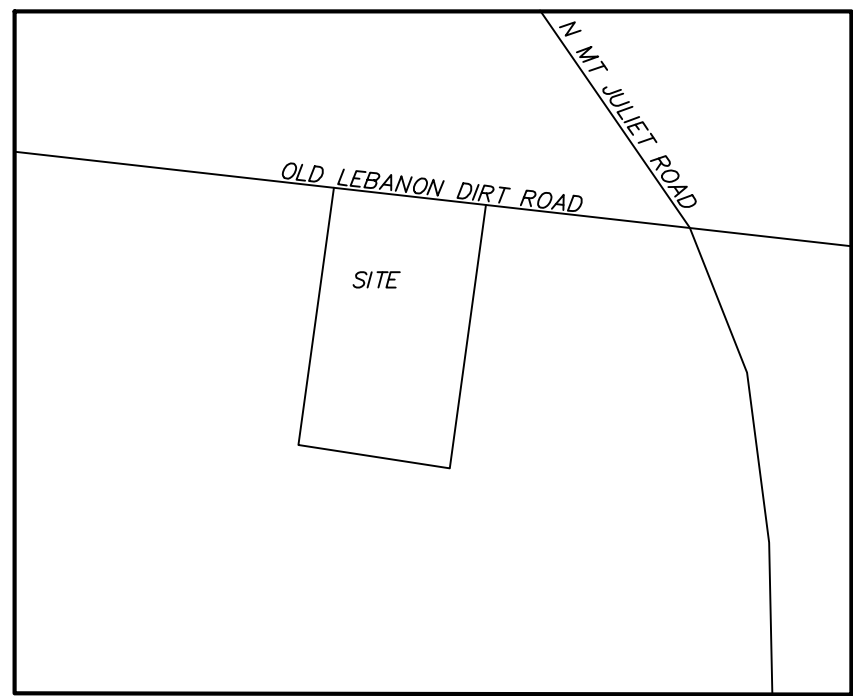
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Revision Dates:

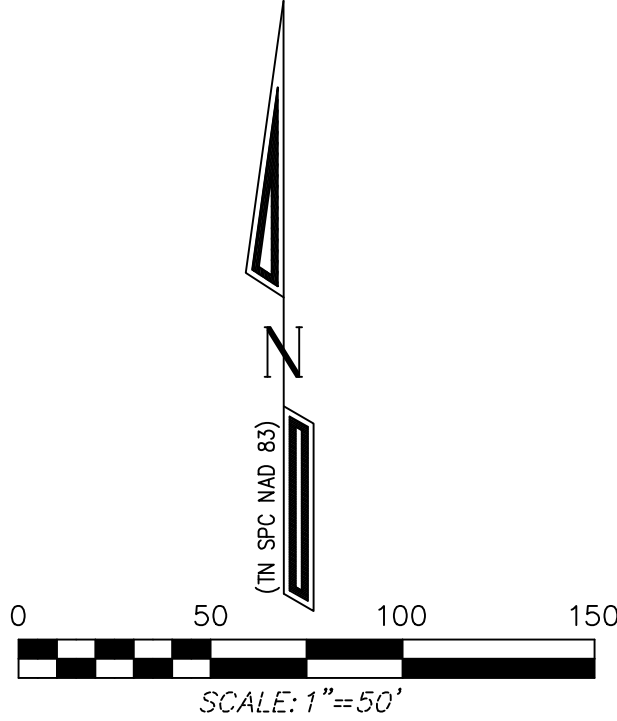
DOI: 10.1002/for

HGA Project #: 23014

CONCEPT
DESIGN



VICINITY MAP
N.T.S.



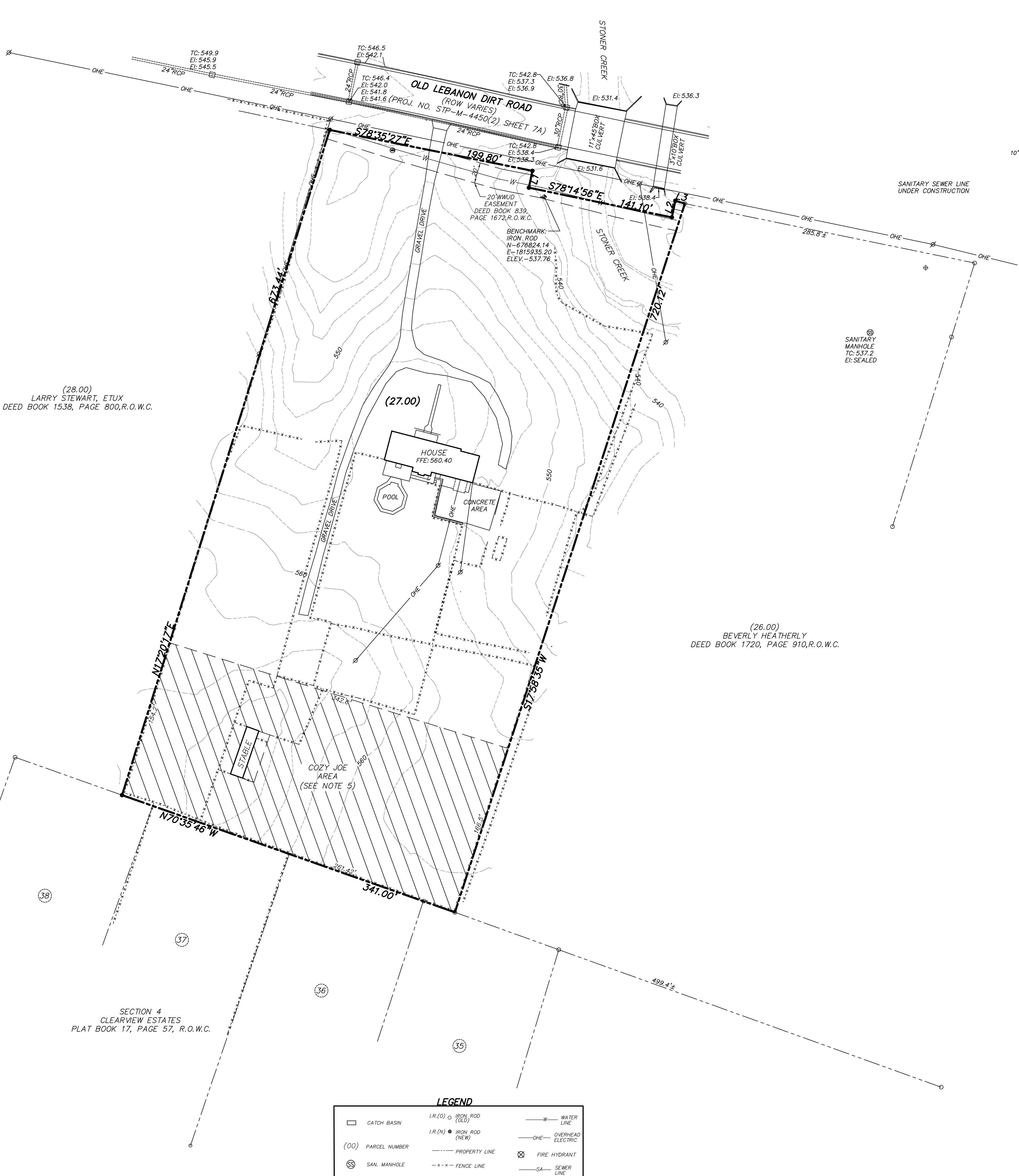
UTILITY NOTE:

THIS SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES. ABOVE GRADE AND UNDERGROUND UTILITIES SHOWN WERE TAKEN FROM VISIBLE APPURTENANCES AT THE SITE, PUBLIC RECORDS AND/OR MAPS PREPARED BY OTHERS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. THEREFORE, RELIANCE UPON THE TYPE, SIZE AND LOCATION OF UTILITIES SHOWN SHOULD BE DONE SO WITH THIS CIRCUMSTANCE CONSIDERED. DETAILED VERIFICATION OF EXISTENCE, LOCATION AND DEPTH SHOULD ALSO BE MADE PRIOR TO ANY DECISION RELATIVE THERETO IS MADE. AVAILABILITY AND COST OF SERVICE SHOULD BE CONFIRMED WITH THE APPROPRIATE UTILITY COMPANY. IN TENNESSEE IT IS A REQUIREMENT, PER "THE UNDERGROUND UTILITY DAMAGE PREVENTION ACT", THAT ANYONE WHO ENGAGES IN EXCAVATION MUST NOTIFY ALL KNOWN UNDERGROUND UTILITY OWNERS, NO LESS THAN (3) THREE OR MORE THAN (10) WORKING DAYS PRIOR TO THE DATE OF THEIR INTENT TO EXCAVATE, AND ALSO TO AVOID ANY POSSIBLE HAZARD OR CONFLICT. TENNESSEE ONE CALL 1-815-355-1987 OR 1-800-351-1111.

LINE	BEARING	DISTANCE
L1	S11°50'43"W	16.60'
L2	N17°45'03"E	16.41'
L3	S73°36'21"E	9.63'

NOTES:

- THIS SURVEY WAS DONE WITHOUT THE BENEFIT OF A TITLE COMMITMENT.
- FOR BOUNDARY ASPECTS OF THIS SURVEY, RTK GPS POSITIONAL DATA WAS OBSERVED ON/BETWEEN THE DATE(S) OF 2-6-24, UTILIZING A TOPCON DUAL FREQUENCY RECEIVER. THE BEARINGS SHOWN WERE DERIVED USING THE TDOT GNSS REFERENCE NETWORK AND REFERENCED TO NAD 83 (2011), TENNESSEE ZONE 4100.
- FOR TOPOGRAPHIC ASPECTS OF THIS SURVEY, RTK GPS POSITIONAL DATA WAS OBSERVED ON/BETWEEN THE DATES OF 2-6-24 UTILIZING A TOPCON DUAL FREQUENCY RECEIVER AND THE TDOT GNSS REFERENCE NETWORK. VERTICAL DATUM IS NAVD 88, GEOID G2012AU7, CONTOUR INTERVAL: 2 FEET.
- TN811, TICKET NUMBER: 240112163, DATED: 1-11-24
- UTILITIES NOTIFIED:
CODE NAME
AFS ZAYO (AMERICAN FIBER SYSTEMS) - AFS
INTW COMCAST - WILSON - INTW
MTEML MIDDLE TENN ELECTRIC MBRSHIP COOP-LEBANON-MTEML...
MTJUL MT JULIET, CITY OF - MTJUL
NYG PIEDMONT NATURAL GAS (NASHVILLE GAS) - NYG
TTI TENNESSEE TELEPHONE (TDS TELECOM) - MT JULIET ----
UTEL UNITED TELEPHONE COMPANY CHAPEL HILL - UTEL
WWLS WEST WILSON UTILITY DISTRICT - WWLS F
5. THIS PROPERTY IS SUBJECT TO A HORSE BARN AND LEASE AGREEMENT DATED JANUARY 9TH, 2024.



SURVEYOR'S CERTIFICATE

To: CSDG
THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WAS DONE IN COMPLIANCE WITH CURRENT TENNESSEE MINIMUM STANDARDS OF PRACTICE AND MEETS THE REQUIREMENTS OF A CATEGORY I SURVEY. THE RATIO OF PRECISION OF THE UNADJUSTED SURVEY DOES NOT EXCEED 1:10,000'.



WARNING
THIS SURVEY WAS PREPARED FOR THE BENEFIT OF THE PARTY OR PARTIES NAMED HEREON AND IS INTENDED FOR THEIR SOLE USE. OTHER PARTIES ARE ADVISED NOT TO RELY UPON THIS USE OF THIS DRAWING BY PARTIES OTHER THAN THOSE LISTED HEREON IS UNAUTHORIZED AND CONSTITUTES A VIOLATION OF FEDERAL COPYRIGHT LAWS.

FOR:
CSDG
Planning | Engineering | Landscape Architecture
2305 Kline Avenue, Suite 300
Nashville, Tennessee 37211
615.248.9999 office
csdgn.com

DEED REFERENCE

To: CITY OF MT. JULIET, TENNESSEE
FROM: CYNTHIA D. LAW
RECORD: DEED BOOK 2289, PAGE 1128, R.O.W.C.

PROPERTY MAP REFERENCE

SUBJECT SITE MAY BE IDENTIFIED AS PARCEL 27.00
ON WILSON COUNTY TAX MAP 77.

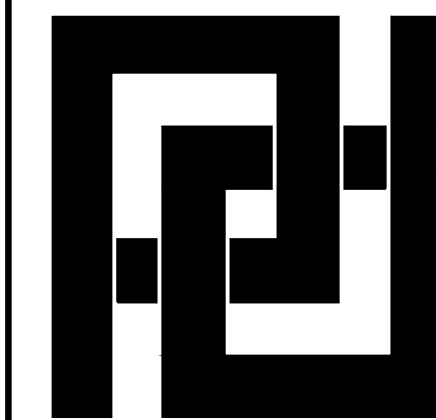
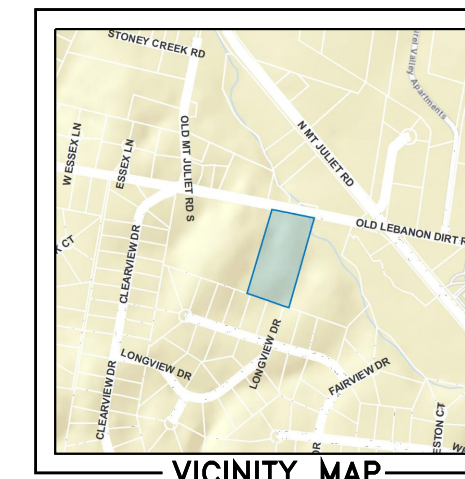
AREA: 238,213 SQUARE FEET±
OR 5.47 ACRES±

GENERAL PROPERTY
SURVEY
CITY OF MT. JULIET
PROPERTY

4370 OLD LEBANON DIRT ROAD,
25TH CIVIL DISTRICT,
CITY OF MT. JULIET,
WILSON COUNTY, TENNESSEE

DATE: 2-9-24 CCPC JOB NO. 24-008
REVISED: 2-20-24

(28.00)
LARRY STEWART, ETUX
DEED BOOK 1538, PAGE 800,R.O.W.C.



PARA DESIGN, LLC
145 BEAR CROSSING
SUITE 520
Mt. Juliet, TN 37122
615.701.2941

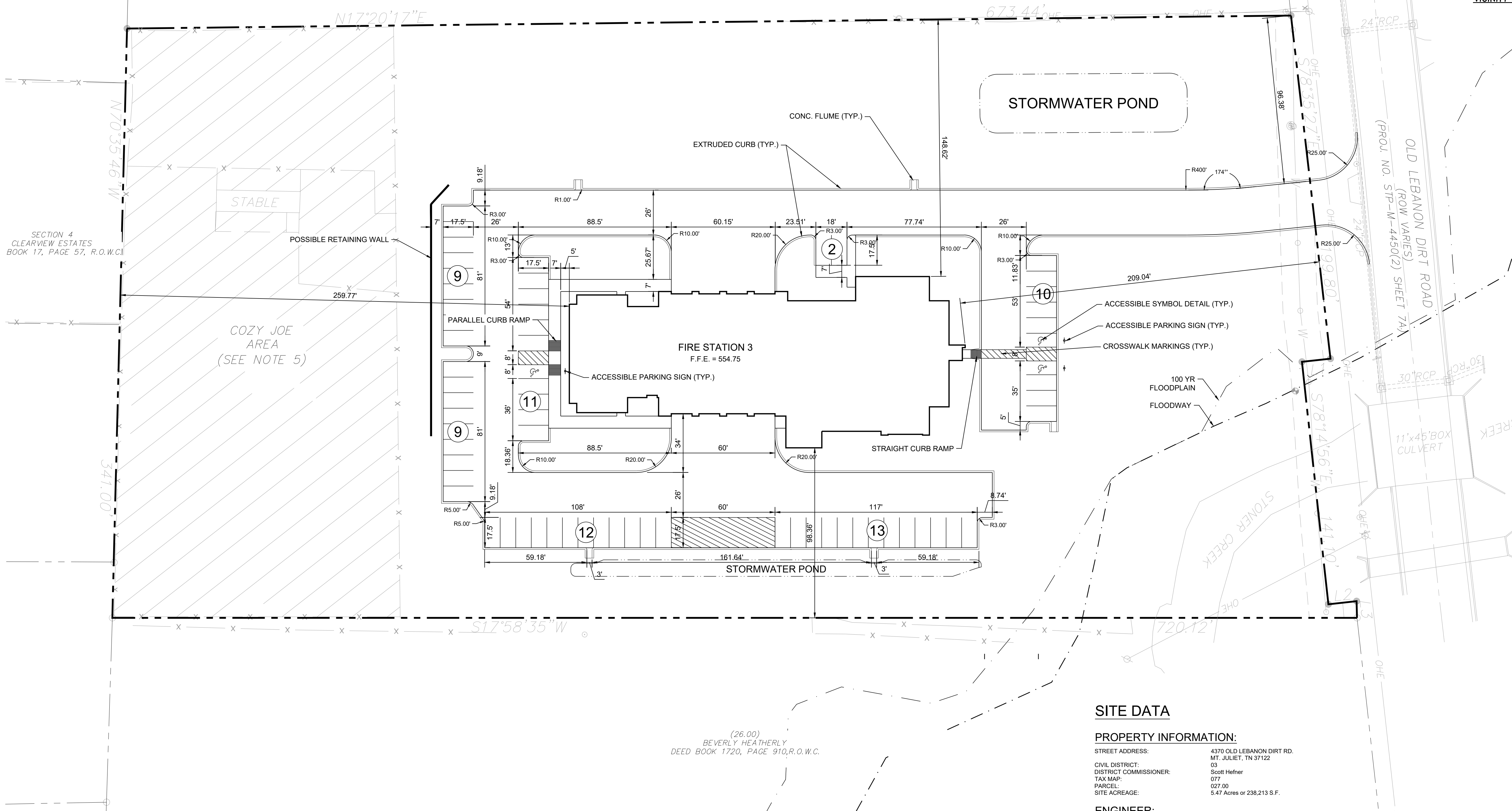
FIRE STATION 3
AT
4370 OLD LEBANON DIRT RD
MT JULIET, WILSON COUNTY, TENNESSEE

CONCEPT PLAN
NOT FOR
CONSTRUCTION

DATE: 07/22/24
PROJECT NO: 2024-14

CONCEPT
SITE PLAN

C-1



SITE DATA

PROPERTY INFORMATION:

STREET ADDRESS: 4370 OLD LEBANON DIRT RD.
MT. JULIET, TN 37122
CIVIL DISTRICT: 03
DISTRICT COMMISSIONER: Scott Hefner
TAX MAP: 077
PARCEL: 027.00
SITE ACREAGE: 5.47 Acres or 238,213 S.F.

ENGINEER:

COMPANY NAME: PARA DESIGN, LLC
CONTACT: JESSICA D. GORE, P.E.
ADDRESS: 145 BEAR CROSSING, SUITE 520
MT. JULIET, TN 37122
EMAIL: jgore@ParaDesignLLC.com

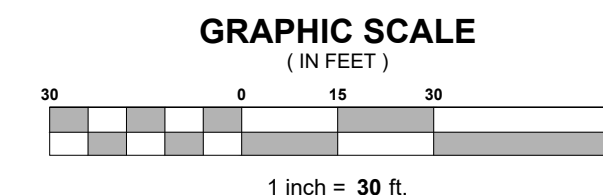
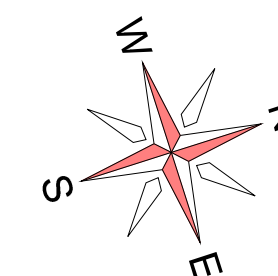
PROJECT INFORMATION:

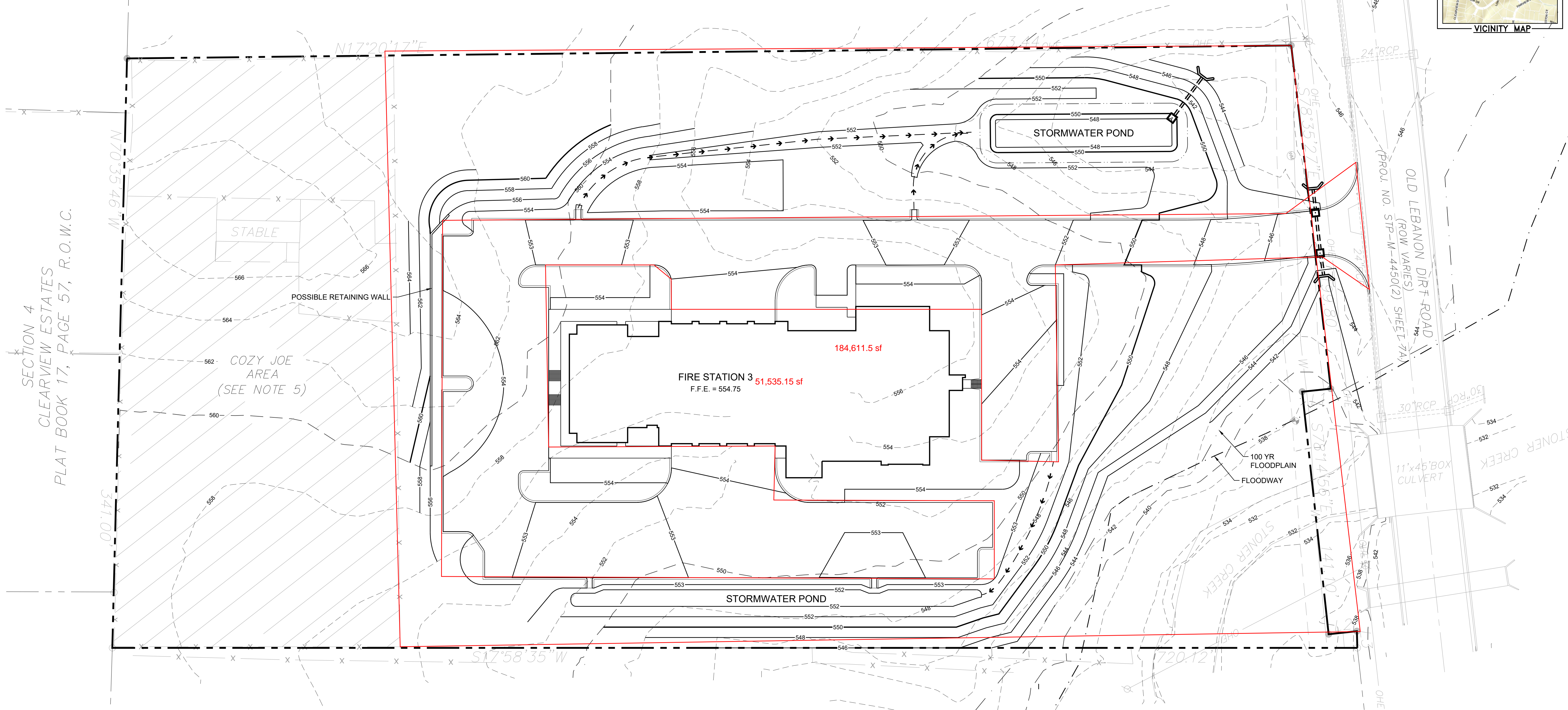
ZONING CLASSIFICATION: RS-40
TOTAL BUILDING AREA: 16,255 S.F.
BUILDING FOOTPRINT: 16,255 S.F.
MAX. LOT COVERAGE (ALLOWED): 15%
PROPOSED LOT COVERAGE: 6.8%
MAX HEIGHT: 35'
PROPOSED HEIGHT: 1-STORY

BUILDING SETBACKS:
FRONT: 50'
SIDE: 25'
REAR: 40'

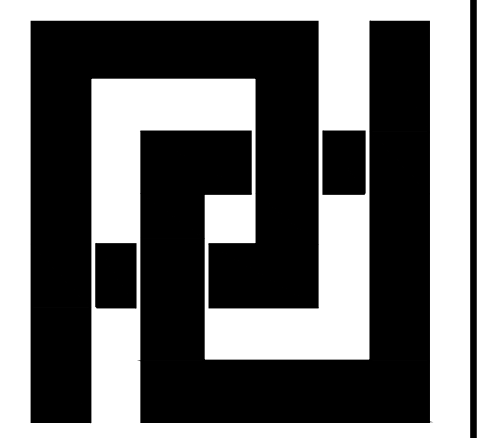
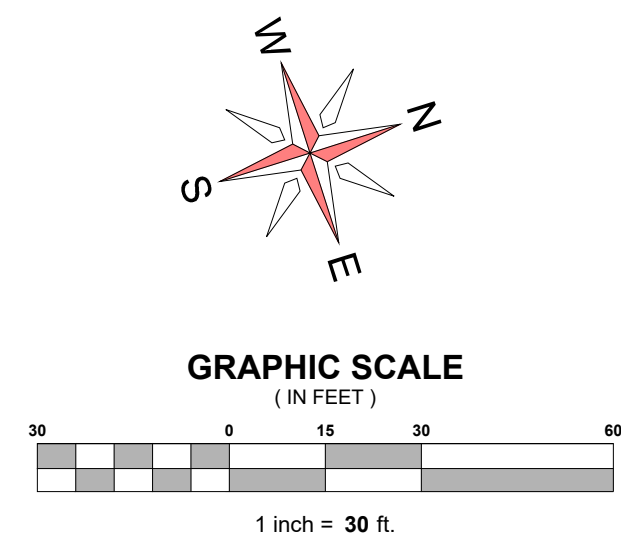
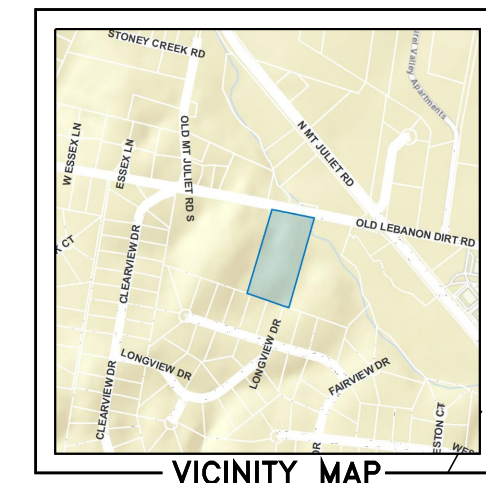
PARKING INFORMATION:

PARKING SPACES PROVIDED: 66 SPACES
(INCLUDES 3 ACCESSIBLE SPACES)





SECTION 4
CLEARVIEW ESTATES
PLAT BOOK 17, PAGE 57, R.O.W.C.



PARA DESIGN, LLC
145 BEAR CROSSING
SUITE 520
Mt. Juliet, TN 37122
615.701.2941

FIRE STATION 3
AT
4370 OLD LEBANON DIRT RD
MT JULIET, WILSON COUNTY, TENNESSEE

CONCEPT PLAN
NOT FOR
CONSTRUCTION

DATE: 07/22/24
PROJECT NO: 2024-14

- △
- △
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- △
- △
- △
- △

CONCEPT
GRADING PLAN

C-2

<< ATTENTION >>

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CONCEPT
DESIGN

FIRE STATION 3
The City of Mt Juliet
4370 Old Lebanon Dirt Road
Mt Juliet, TN 37122

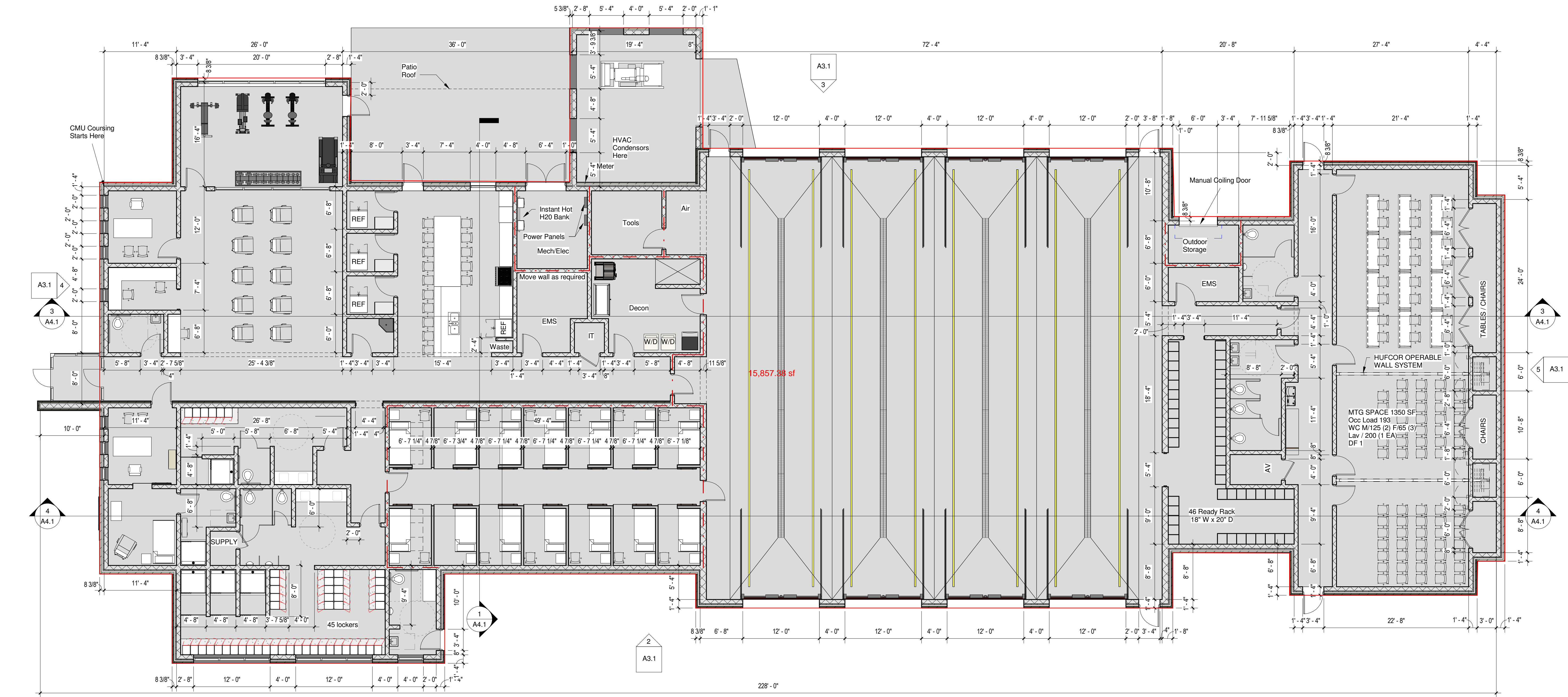
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REVISION DATA

23014 7.22.2024

FLOORPLAN

A2.1



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REVISION DATA

23014 7.22.2024

Presentation Elevations

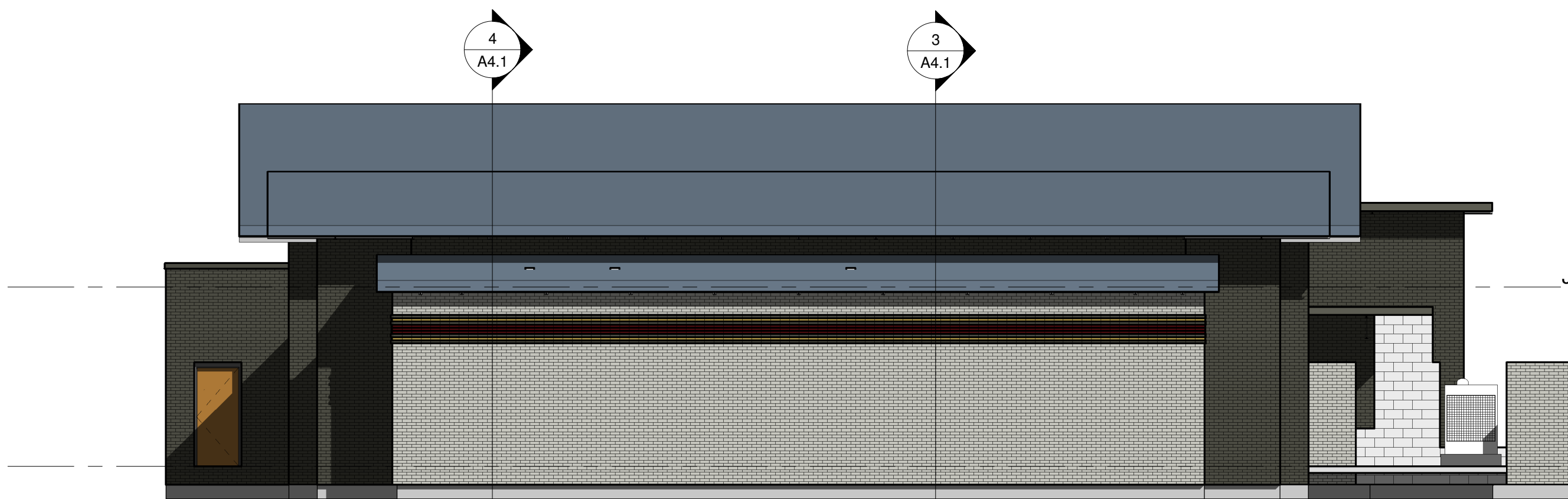
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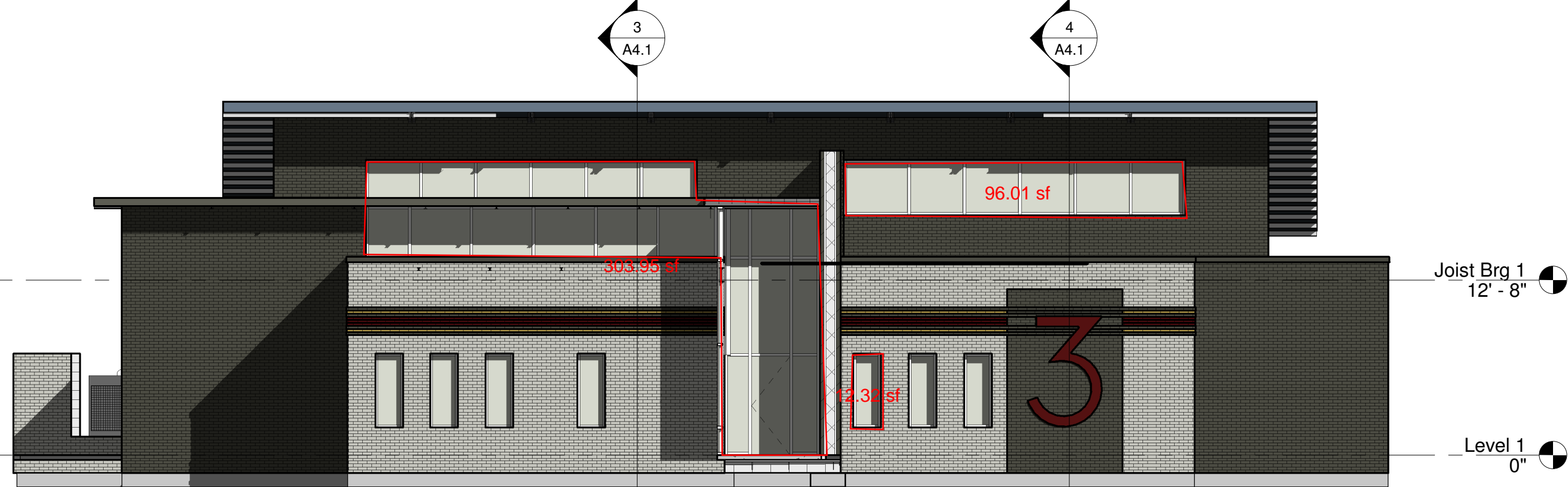
6 3D View 1



7 3D View 2



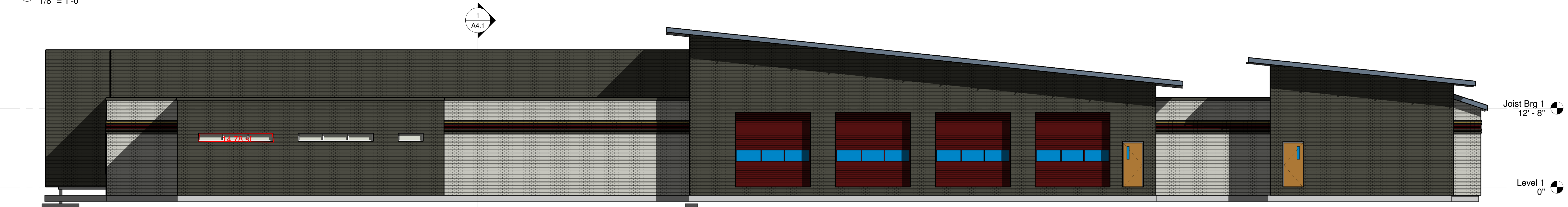
5 South
1/8" = 1'-0"



4 North
1/8" = 1'-0"



3 East
1/8" = 1'-0"



2 West
1/8" = 1'-0"

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DESIGN

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4370 Old Lebanon Dirt Road
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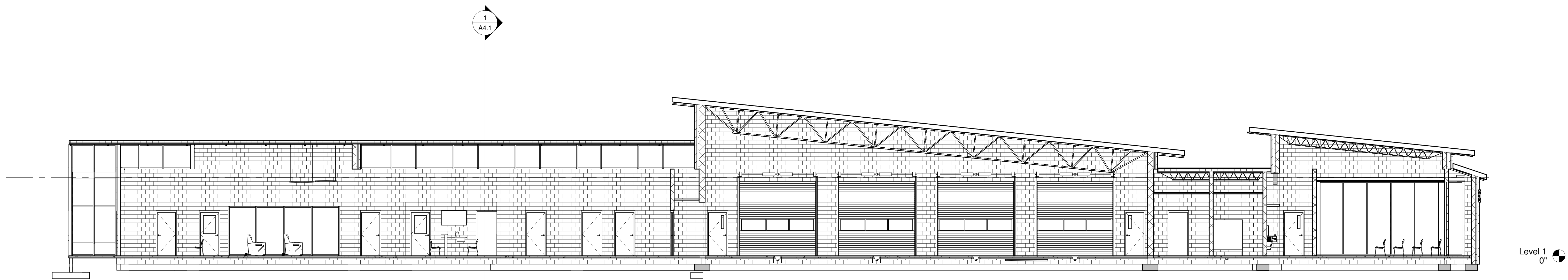
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REVISION DATA

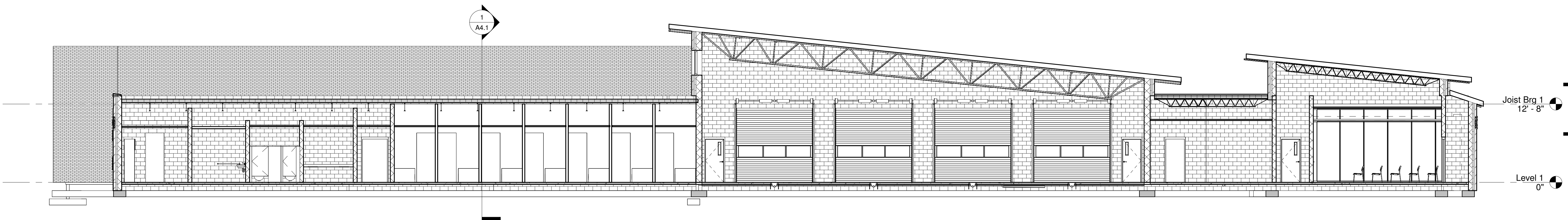
23014 7.22.2024

BUILDING SECTIONS

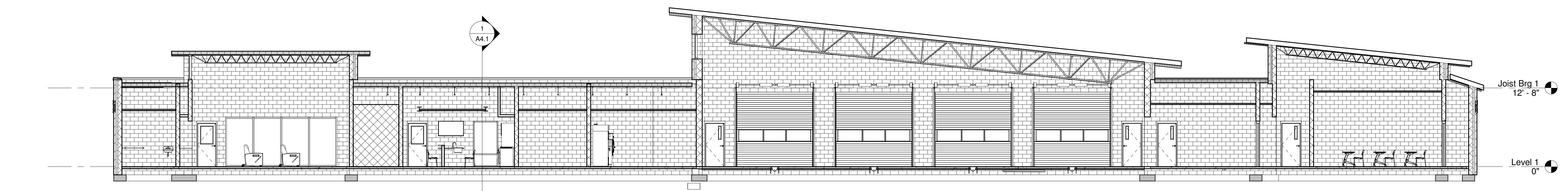
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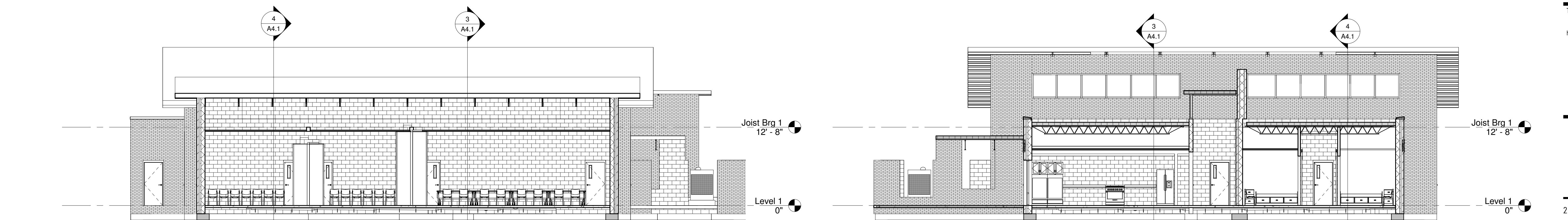
⑤ Section 5
1/8" = 1'-0"



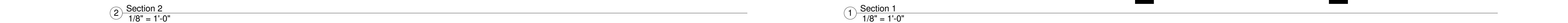
④ Section 4
1/8" = 1'-0"



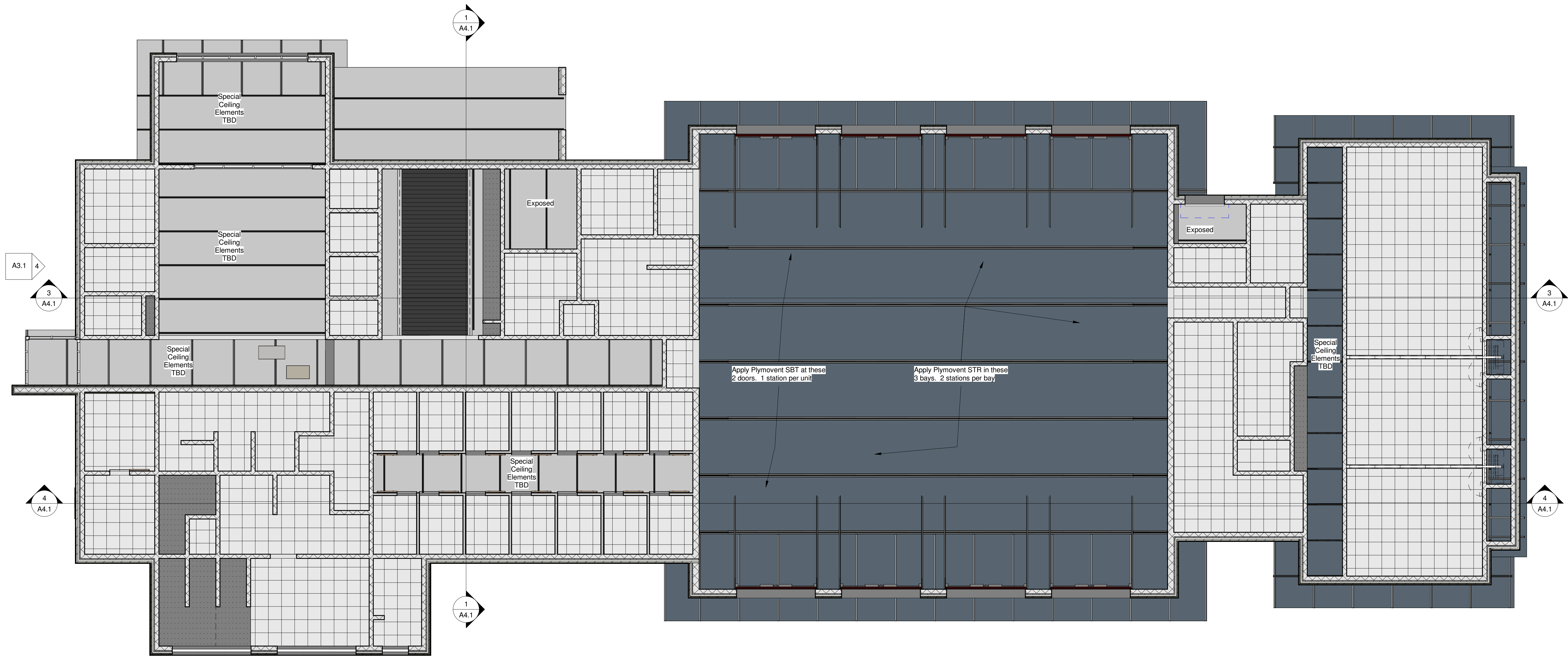
③ Section 3
1/8" = 1'-0"



② Section 2
1/8" = 1'-0"



① Section 1
1/8" = 1'-0"

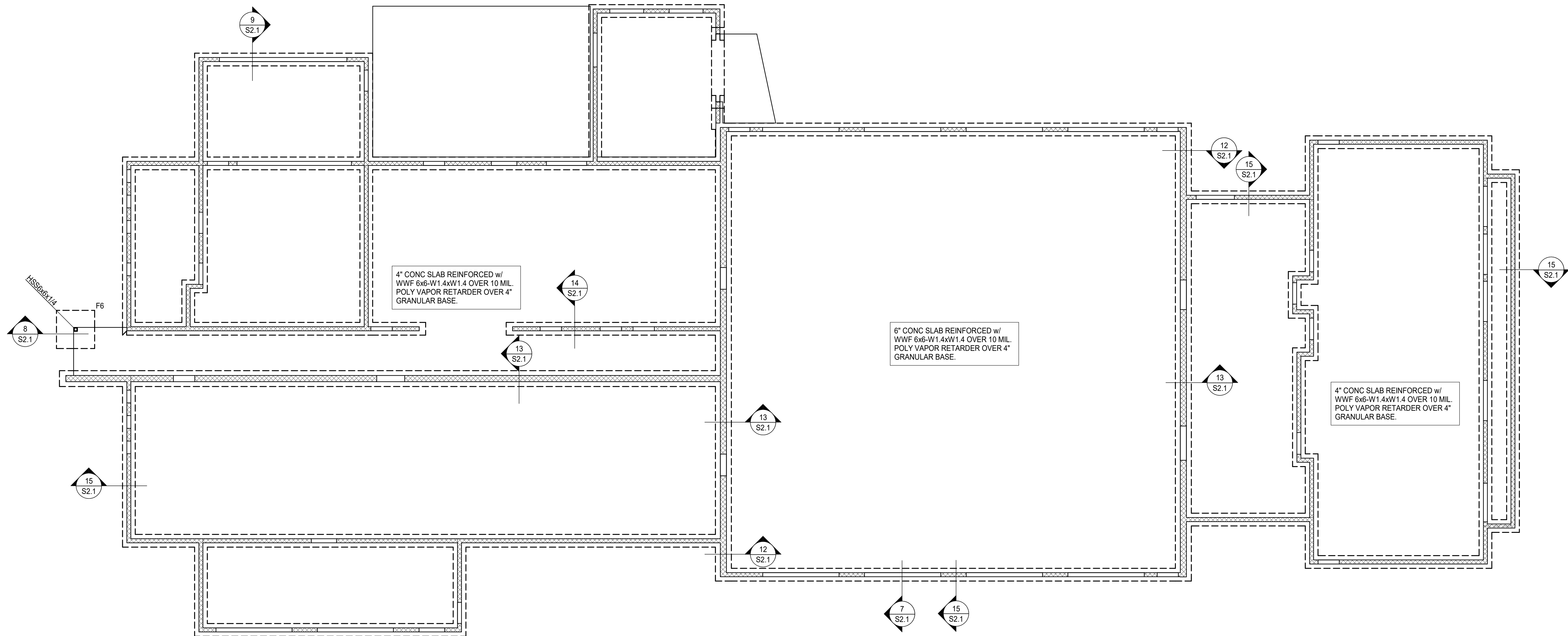


STRUCTURAL GENERAL NOTES			
1.0 DESIGN AND CODE INFORMATION			
1. ALL CONSTRUCTION SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE, 2018 EDITION.			
2. VERIFY EXISTING CONDITIONS AND ALL DIMENSIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH CONFLICT WITH OTHER PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE COORDINATED WITH ARCHITECTURAL DRAWINGS. STRUCTURAL DRAWINGS ARE NOT INTENDED FOR BUILDING LAYOUT.			
3. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE GENERAL CONTRACTOR HAS THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES. SUBMIT PDF COPIES OF REVIEWED DRAWINGS FOR ENGINEER'S REVIEW. ONLY PDF SETS OF MARKED UP SHOP DRAWINGS SHALL BE RETURNED BY THE DESIGNER. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED.			
4. COMPLETE SHOP DRAWINGS AND CALCULATIONS FOR COMPONENTS NOT DESIGNED BY THE ENGINEER OF RECORD AND NOT SPECIFIED ON THE PROJECT CONSTRUCTION DOCUMENTS SHALL BE SEALED AND SIGNED BY A DESIGNATED PROFESSIONAL ENGINEER REGISTERED IN THE PROJECT STATE AND SHALL BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO BEGINNING FABRICATION, INCLUDING BUT NOT LIMITED TO THE FOLLOWING COMPONENTS:			
(X) STRUCTURAL STEEL CONNECTION DESIGNS			
(X) STEEL JOISTS			
(X) GLAZED SYSTEM INCLUDING BUT NOT LIMITED TO WINDOW UNITS, CURTAIN WALLS, AND STOREFRONT (S) WHICH EXCEEDS TEN (10) FEET IN HEIGHT)			
(X) ROOFTOP EQUIPMENT AND ANCHORAGES			
5. THE STRUCTURE IS UNSTABLE UNTIL ALL LOAD BEARING WALLS ARE ERECTED AND STEEL MEMBERS ARE ERECTED. CONNECTIONS ARE COMPLETELY BOLTED AND/OR WELDED AND INSPECTED. THE STEEL DECK ATTACHED TO THE STEEL FRAMING, AND THE CONCRETE FLOORS PLACED AND ATTAINS 75% OF 28-DAY STRENGTH. UNTIL SUCH TIME, TEMPORARY BRACING IS REQUIRED. THE DESIGN ADEQUACY OF TEMPORARY BRACING AND SHORING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.			
6. DO NOT SCALE STRUCTURAL DRAWINGS, AND FOR LOCATION OF MISCELLANEOUS ITEMS (OPENINGS, BENT PLATES, INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.			
7. DEAD LOADS: SELF-WEIGHT OF STRUCTURE ROOF: 20 PSF			
8. LIVE LOADS: OFFICES: 100 PSF (INCLUDING PARTITIONS) REDUCIBLE PER CODE MECH: 125 PSF ROOFS: 20 PSF (REDUCIBLE PER CODE)			
9. ROOF LOADS: GROUND SNOW LOAD: 10 PSF SNOW EXPOSURE Co: .9 SNOW IMPORTANCE I: 1.0 THERMAL FACTOR Ct: 1.0 FLAT ROOF SNOW LOAD: 10 PSF			
10. WIND LOADS: BASIC WIND SPEED: CATEGORY IV BASIC WIND SPEED 116 MPH WIND EXPOSURE FACTOR: B INTERNAL PRESSURE COEFFICIENT: ± 0.18 CLADDING LOAD: SEE DIAGRAMS ON _____			
11. RAIN LOADS: DESIGN LOAD: _____ PSF RAIN INTENSITY: _____ IN/HOUR			
12. SEISMIC LOADS: RISK CATEGORY: IV SEISMIC IMPORTANCE Ie: 2 SEC SPECTRAL RESPONSE ACCELERATION Ss: 1.0 SEC SPECTRAL RESPONSE ACCELERATION Sa: SITE CLASS: A B C D E F DESIGN SPECTRAL RESPONSE SDS: DESIGN SPECTRAL RESPONSE SD1: SEISMIC DESIGN CATEGORY: A B C D E F RESISTING SYSTEM: RESPONSE MODIFICATION FACTOR R: SYSTEM OVERSTRENGTH FACTOR o: DEFLECTION AMPLIFICATION FACTOR d: SEISMIC RESPONSE COEFFICIENT Cs: ANALYSIS PROCEDURE: SIMPLIFIED, EQUIVALENT LATERAL FORCE, MODAL BASE SHEAR: _____			
13. TORNADO SHELTER: WIND SPEED: 250 MPH (RISK CATEGORY IV) WIND EXPOSURE: C SHELTER ROOF: 100 PSF INTERNAL PRESSURE COEFFICIENT: ± 0.18 CLADDING LOAD: SEE DIAGRAM S _____			
2.0 SPECIAL INSPECTIONS AND TESTING			
1. THE CONTRACTOR/OWNER SHALL EMPLOY AN INDEPENDENT TESTING COMPANY TO PERFORM SITE INSPECTIONS AND TESTING IN ACCORDANCE WITH THE QUALITY ASSURANCE PLAN SHEET S002.			
3.0 STRUCTURAL OBSERVATIONS			
1. THE ENGINEER OF RECORD HAS BEEN EMPLOYED TO PERFORM PERIODIC VISUAL OBSERVATIONS OF THE STRUCTURE DURING CONSTRUCTION FOR GENERAL CONFORMANCE TO THE DESIGN DRAWINGS.			
4.0 FOUNDATION NOTES			
1. FOUNDATION DESIGN IS BASED ON A REPORT MADE BY _____ DATED _____ (REPORT NO. _____).			
2. INDIVIDUAL FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SOIL CAPABLE OF SUPPORTING 2000 PSF. CONTINUOUS FOOTINGS ARE DESIGNED TO BEAR ON SOIL CAPABLE OF SUPPORTING 2000 PSF. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.			
3. DESIGN ASSUMES DIFFERENTIAL AND TOTAL SETTLEMENT ARE WITHIN ACCEPTED TOLERANCES FOR THE TYPE OF CONSTRUCTION USED.			
4. RETAINING WALLS ARE DESIGNED FOR LATERAL PRESSURES:			
• WALL (ACTIVE): 30 PCF • BACKFILL WITH CLEAN #57 OR #67 STONE UNO. THE BACKFILL SHALL BE DRAINED WITH NO BUILDUP OF WATER PRESSURE BEHIND THE WALLS			
BASEMENT WALLS ARE DESIGNED FOR LATERAL PRESSURES:			
• WALL: 45 PCF • BACKFILL WITH CLEAN #57 OR #67 STONE UNO. THE BACKFILL SHALL BE DRAINED WITH NO BUILDUP OF WATER PRESSURE BEHIND THE WALLS			
5. THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE 2'-0" MINIMUM BELOW FINISHED GRADE.			
6. WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3-INCH-THICK MU2 MAT OF 2000 PSI CONCRETE SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.			
7. WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.			
8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MAINTAINING THE STABILITY OF THE ADJACENT BUILDING FOUNDATIONS. THE CONTRACTOR SHALL VERIFY EXISTING CONDITION AND TAKE ALL STEPS TO PROTECT THE EXISTING STRUCTURES DURING CONSTRUCTION.			

REINFORCED CONCRETE							
1. ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE," (ACI 318).							
2. REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60).							
3. MATERIAL PROPERTIES – CONCRETE:							
		CLASS EXPOSURE	F'c PSI MAX. AT 28 DAYS	W/C MAX. RATIO	TOTAL AIR SLUMP INCHES	NOM. MAX. CONTENT (±1.5%)	AGGREGATE SIZE
3.1	Cast-In-Place Concrete						
	A. Footings	C1	4,000	0.50	4	No Test	2"
	B. Drilled Piers	C1	4,000	0.50	6-8"	No Test	2"
	C. Pier Caps	C1	4,000	0.50	4	No Test	2"
	D. Grade Beams	C1	4,000	0.45	4	No Test	3/4"
	E. Columns						
	Int. Columns		5,000	0.45	3	No Test	3/4"
	Ext. Columns	F1, C1	5,000	0.45	3	5	3/4"
	F. Superstructure						
	Slabs, Beams						
	Int.		5,000	0.40	3	No Test	3/4"
	Ext.	F2, C2	5,000	0.40	3	6	3/4"
	G. Walls						
	Int. Walls		4,000	0.45	3	No Test	3/4"
	Ext. Walls	F1, C2	4,000	0.45	3	5	3/4"
	H. Slab-on-Grade						
	Int. Slab		4,000	0.45	4	No Test	1"
	Ext. Slab	F2, C2	4,500	0.40	4	6	1"
	I. Stairs, Landings, Lobbies						
	Int.		4,000	0.45	4	No Test	3/4"
	Ext.	F2, C2	4,500	0.40	4	6	3/4"
	J. All Other		4,000	0.45	4	5	3/4"
	K. Concrete Fill on Metal Deck (Lightweight and Normal) 116-117 PCF 140-150 PCF		4,000	0.45	4	3	3/4"
3.2	Other Concrete						
	A. Masonry Wall						
	Grout Fill		3,000		8 to 10	No Test	3/8"
	B. NSMS Grout		8,000			No Test	No. 4
	*Before adding water reducer						
	**After adding water reducer						
4. EXPOSURE CLASS SHALL BE FO, SO, PO, AND CO PER ACI 318 UNO.							
5. LAP SPLICES FOR REINFORCING BARS SHALL BE CLASS B IN ACCORDANCE WITH ACI 318, UNLESS NOTED OTHERWISE.							
6. THE LONGITUDINAL REINFORCING STEEL IN BOND BEAMS, WALLS, AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.							
7. CLEAR CONCRETE COVER FOR REINFORCING STEEL:							
	SLABS:	3/4"					
	GRADE BEAMS AND PIERS:	2"					
	WALLS:	2" EXTERIOR FACES 3/4" INTERIOR FACES					
	MASONRY WALLS:	LOCATE IN CENTER OF WALL (UNO)					
	SLAB ON GRADE:	3/4" TOP STEEL 1 1/2" BOTTOM STEEL					
	BEAMS AND COLUMNS:	1 1/2" FORMED EDGES					
	FOOTINGS:	2" FORMED EDGES 3" CAST AGAINST GROUND					
8. CONCRETE WALLS AND SLABS SHALL BE REINFORCED AROUND ALL OPENINGS WITH 2-#5 BARS IN EACH FACE, ON ALL SIDES AND EXTENDED 2'-0" BEYOND THE OPENING, UNLESS SHOWN OTHERWISE.							
9. CONSTRUCTION JOINTS IN BEAMS, GIRDER AND SLABS SHALL OCCUR AT MID-SPAN AND SHALL BE KEVED. IN ALL CASES THE LOCATION OF CONSTRUCTION JOINTS NOT SHOWN ON THE DRAWINGS SHALL BE APPROVED BY THE STRUCTURAL ENGINEER. KEYWAYS SHALL BE ONE THIRD THE DEPTH OF THE MEMBER AND PLACED AT MID-DEPTH.							
10. MECHANICAL VIBRATORS SHALL VIBRATE ALL CONCRETE.							
11. CHAMFER EXPOSED CORNERS OF BEAMS, COLUMNS AND WALLS 3/4 INCH.							
12. UNLESS OTHERWISE DIRECTED BY THE OWNER, CONCRETE SLABS SHALL BE FINISHED TO THE FOLLOWING FLATNESS CRITERIA. THESE FLOOR FLATNESS CRITERIA ARE NOT APPLICABLE TO COMPOSITE STEEL CONSTRUCTION. SEE ARCHITECTURAL REQUIREMENTS FOR ADDITIONAL FLOOR FINISH INFORMATION:							
	SPECIFIED OVERALL F NUMBERS						
	FLATNESS FF = 35						
	LEVEL FL = 25						
	MINIMUM LOCAL F NUMBERS						
	FLATNESS FF = 24						
	LEVEL FL = 17						
13. COORDINATE ALL VAPOR RETARDERS, VAPOR BARRIERS, AND WATERPROOFING OF CONCRETE SLABS-ON-GRADE AND CONCRETE WALLS WITH FINISH MATERIAL REQUIREMENTS AND ARCHITECTURAL SPECIFICATIONS.							
6.0 CONCRETE MASONRY							
1. MASONRY CONSTRUCTION SHALL CONFORM TO ACI 530/TMS 402 AND ACI 530.1/TMS 602.							
2. MASONRY WALL CONTROL JOINTS SHALL BE LOCATED AS SHOWN ON THE ARCHITECTURAL DRAWINGS. IF NOT SHOWN IN ARCHITECTURAL DRAWINGS, PROVIDE CONTROL JOINTS AS FOLLOWS:							
	A. 24 FEET ON CENTER, HORIZONTAL MAXIMUM.						
	B. 12 FEET FROM CORNERS MAXIMUM.						
	C. 8 INCHES (8' CMU) / 12 INCHES (12' CMU) FROM EDGE OF OPENING MAXIMUM.						
	D. INTERSECTION OF LOAD-BEARING AND NON-LOAD-BEARING WALLS.						
3. CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 PCF AND SHALL HAVE A MINIMUM PRISM STRENGTH (FM) OF 2000 PSI.							
4. GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "MORTAR AND GROUT FOR REINFORCED MASONRY," ASTM C-476, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (FM) OF 3000 PSI AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9 INCHES AND 11 INCHES WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3 INCHES OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.							
5. MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270.							
6. MASONRY CONSTRUCTION SHALL BE BUILT IN LIFTS NOT TO EXCEED 4 FEET PRIOR TO GROUTING CORES. KEY NEXT GROUT LIFT INTO PRIOR LIFT BY STOPPING FIRST LIFT 2" BELOW TOP OF BLOCK.							
7. ALL REINFORCING BARS IN FILLED CELLS SHALL BE DOWELED INTO FOOTINGS WITH STANDARD 90-DEGREE HOOKS AND DOWELED 7 INCHES INTO BOND BEAMS AT TOP OF WALLS.							
8. MASONRY LAP SPLICES SHALL BE 48 BAR DIAMETERS (U.N.O.).							
9. REINFORCEMENT IN WALLS SHALL BE PLACED IN THE CENTER OF THE WALL.							

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE AISC "MANUAL OF STEEL CONSTRUCTION LRFD.
2. STRUCTURAL STEEL ROLLED SHAPES SHALL BE ASTM A-992 GRADE 50 UNLESS NOTED OTHERWISE. STRUCTURAL STEEL PLATES AND ANGLES SHALL BE ASTM A-36.
3. STRUCTURAL PIPE COLUMNS SHALL BE ASTM A-53, TYPE E OR S, GRADE B. STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.
4. STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4 INCH DIAMETER MINIMUM AND SHALL BE ASTM A-325-N, UNLESS NOTED OTHERWISE.
5. STEEL JOISTS SHALL BE DESIGNED, FABRICATED AND ERECTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS OF THE STEEL JOIST INSTITUTE, LATEST EDITION. STEEL JOISTS SHALL BE GRADE 50 STEEL.
6. METAL DECK SHALL BE INSTALLED IN ACCORDANCE WITH THE STEEL DECK INSTITUTE SPECIFICATIONS, LATEST EDITION.
7. WELD WASHERS SHALL BE USED WITH METAL DECK THINNER THAN 22 GAGE.
8. MISCELLANEOUS ANCHOR BOLTS SHALL BE ASTM A-307 HEADED BOLTS.
9. ANCHOR RODS AT COLUMN BASE PLATES SHALL BE ASTM F-1554 GRADE 55. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 16 BOLT DIAMETERS UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC. BEFORE INSTALLATION. COLUMN ANCHOR RODS SHALL BE HELD IN PLACE BY TEMPLATES AND POSITIONED PRIOR TO CASTING CONCRETE.
10. FRAMED BEAM CONNECTIONS SHALL BE DESIGNED BY A QUALIFIED PROFESSIONAL ENGINEER EMPLOYED BY THE FABRICATOR TO DEVELOP THE REACTION SHOWN FOR THE ENDS OF BEAMS ON STRUCTURAL PLANS. IN NO CASE SHALL THE LENGTH OF THE FRAMED CONNECTION BE LESS THAN 1/2 THE "T" DIMENSION OF THE BEAM WEB. WHERE REACTIONS ARE NOT SHOWN, THE CONNECTION SHALL DEVELOP ONE-HALF THE ALLOWABLE UNIFORM LOAD FOR LATERALLY SUPPORTED BEAMS AS SHOWN IN PART 2 OF THE AISC MANUAL.
11. WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQUIRED BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO AWS SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
12. HARDENED WASHERS SHALL BE INSTALLED OVER SHORT SLOTTED OR OVERSIZE HOLES OCCURRING IN AN OUTER PLY OF A CONNECTION.
13. THE STEEL JOIST MANUFACTURER SHALL INVESTIGATE THE ROOF JOISTS FOR A NET UPLIFT FORCE OF 15 PSF AND FURNISH THE NECESSARY FRAMING TO ENSURE PROPER JOIST PERFORMANCE UNDER UPLIFT DUE TO WIND AS WELL AS GRAVITY LOADING CONDITIONS.
14. PROVIDE SPECIAL JOIST SEATS WHERE REQUIRED BY NARROW BEARING CONDITIONS.
15. PAINT ALL STRUCTURAL STEEL THAT DOES NOT RECEIVE SPRAY-ON FIREPROOFING WITH ONE COAT OF RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOPCOAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL IN THE FIELD IMMEDIATELY. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE WITH THE PRIMER SURFACE.
16. STRUCTURAL STEEL SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS, CONNECTIONS, AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. STRUCTURAL STEEL SHOP DRAWINGS SHALL NOT INCLUDE MISCELLANEOUS STEEL.
17. THE STRUCTURAL DESIGN OF STEEL STAIRS, LANDINGS AND GUARDRAILS (INCLUDING EMBEDS) SHALL BE PERFORMED BY A STRUCTURAL ENGINEER REGISTERED IN THE DESIGN OF JOISTS AND JOIST GIRDERS TO SHOP DRAWINGS WITH THE ENGINEER'S SEAL SHALL BE SUBMITTED FOR APPROVAL. NO FABRICATION SHALL BEGIN UNTIL THE SUBMITTAL IS APPROVED. DESIGN LOADS SHALL BE AS SPECIFIED BY THE CONTRACT DOCUMENTS AND/OR THE APPLICABLE CODES, WHICHEVER IS MORE STRINGENT.
18. STEEL JOIST AND JOIST GIRDER SHOP DRAWINGS SHALL BEAR THE SEAL AND SIGNATURE OF A REGISTERED ENGINEER IN THE PROJECT STATE REPRESENTING THE DESIGN OF JOISTS AND JOIST GIRDERS TO SHOP SPECIFICATIONS AND FOR ALL LOADINGS SPECIFIED ON THE DRAWINGS. SHOP DRAWINGS WILL NOT BE REVIEWED BY THE DESIGNER UNTIL AFTER THE STRUCTURAL STEEL SUBCONTRACTOR AND GENERAL CONTRACTOR HAVE THOROUGHLY REVIEWED THE SHOP DRAWINGS, VERIFIED EXISTING CONDITIONS, AND COORDINATED THE SHOP DRAWINGS WITH OTHER AFFECTED TRADES.



FOUNDATION PLAN

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

NOTES:

- 1) TOP OF INTERIOR FTG. = F.F.E. -8" U.N.O.
- 2) TOP OF EXTERIOR FTG. = F.F.E. -16" OR 1'-0" BELOW EXTERIOR GRADE WHICHEVER IS LOWER U.N.O.
- 3) THE CONTRACTOR SHALL COORDINATE ANY UNDER SLAB PIPING, CONDUITS OR ANY UTILITIES PRIOR TO PLACING FOOTINGS. REPORT ANY CONFLICT TO ENGINEER IMMEDIATELY.
- 4) SEE ARCH. DWG FOR ANY LOCATIONS AND OR DIMENSIONS NOT SHOWN.
- 5) SEE DETAIL 7/S7 FOR SLAB CONTROL JOINTS.
- 6) DOWELS SHOWN ON PLANS INDICATE GROUT FILLED REINFORCED CORES. (SEE DETAIL 7/S7)

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FIRE STATION 3

The City of Mt Juliet

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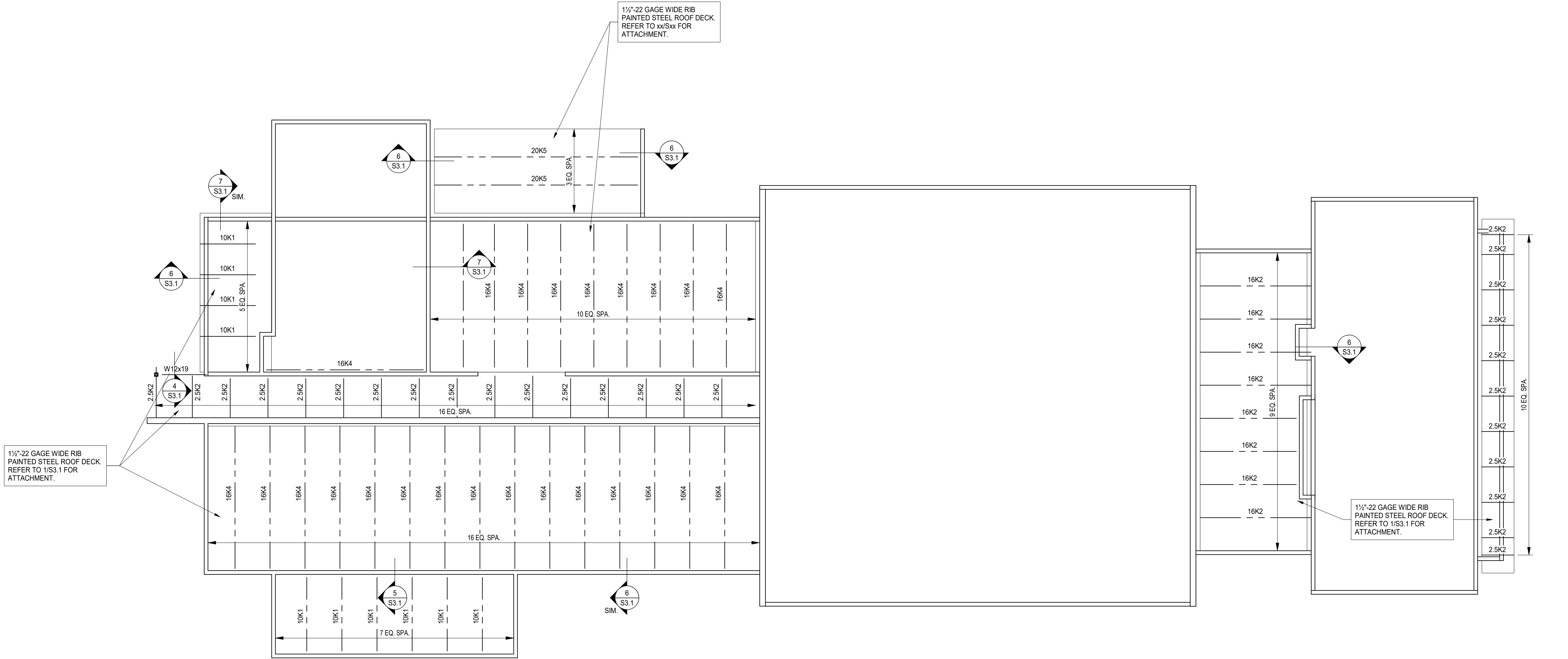
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23014

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FOUNDATION PLAN

S1.1

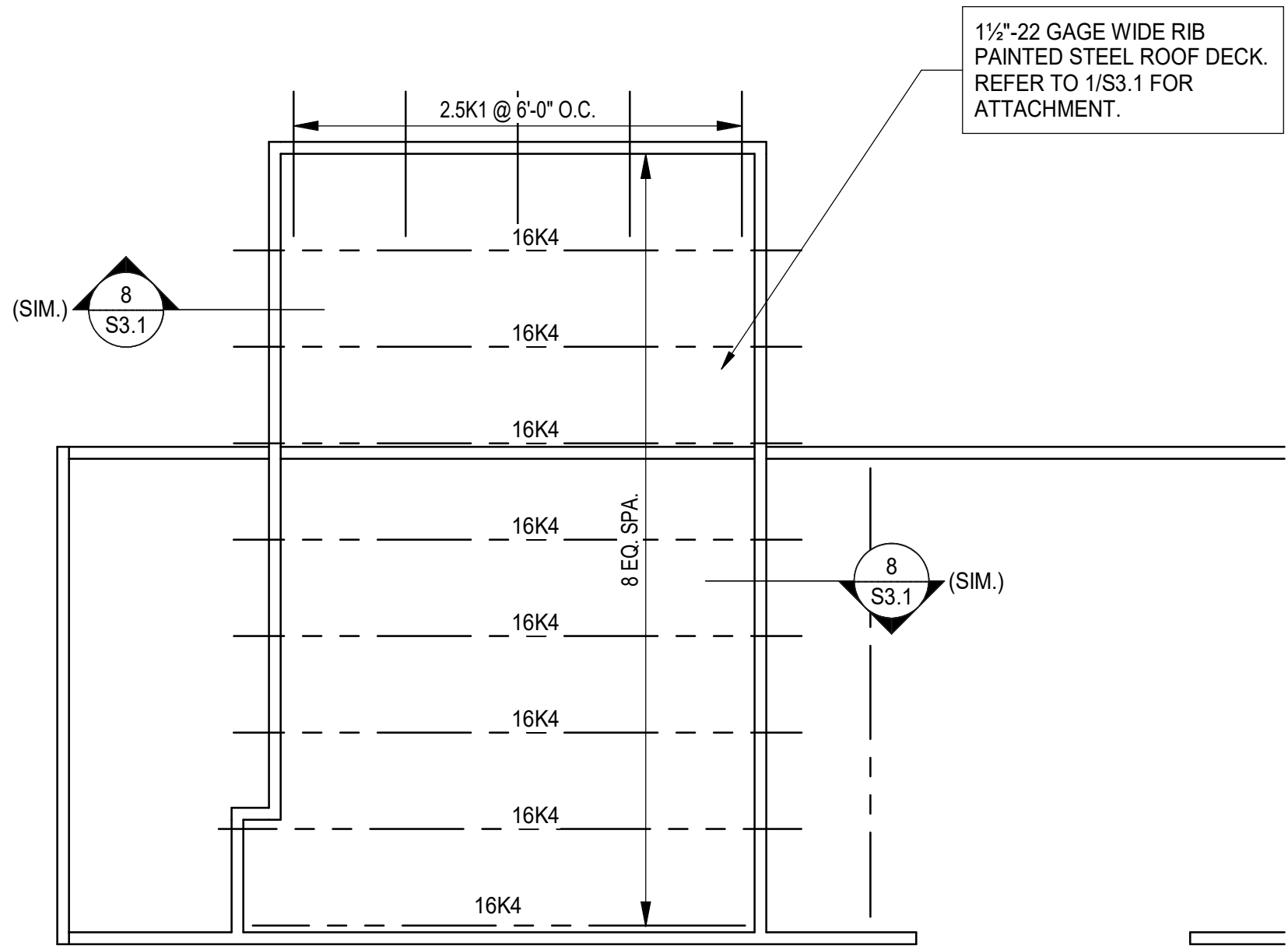


ROOF FRAMING PLAN

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

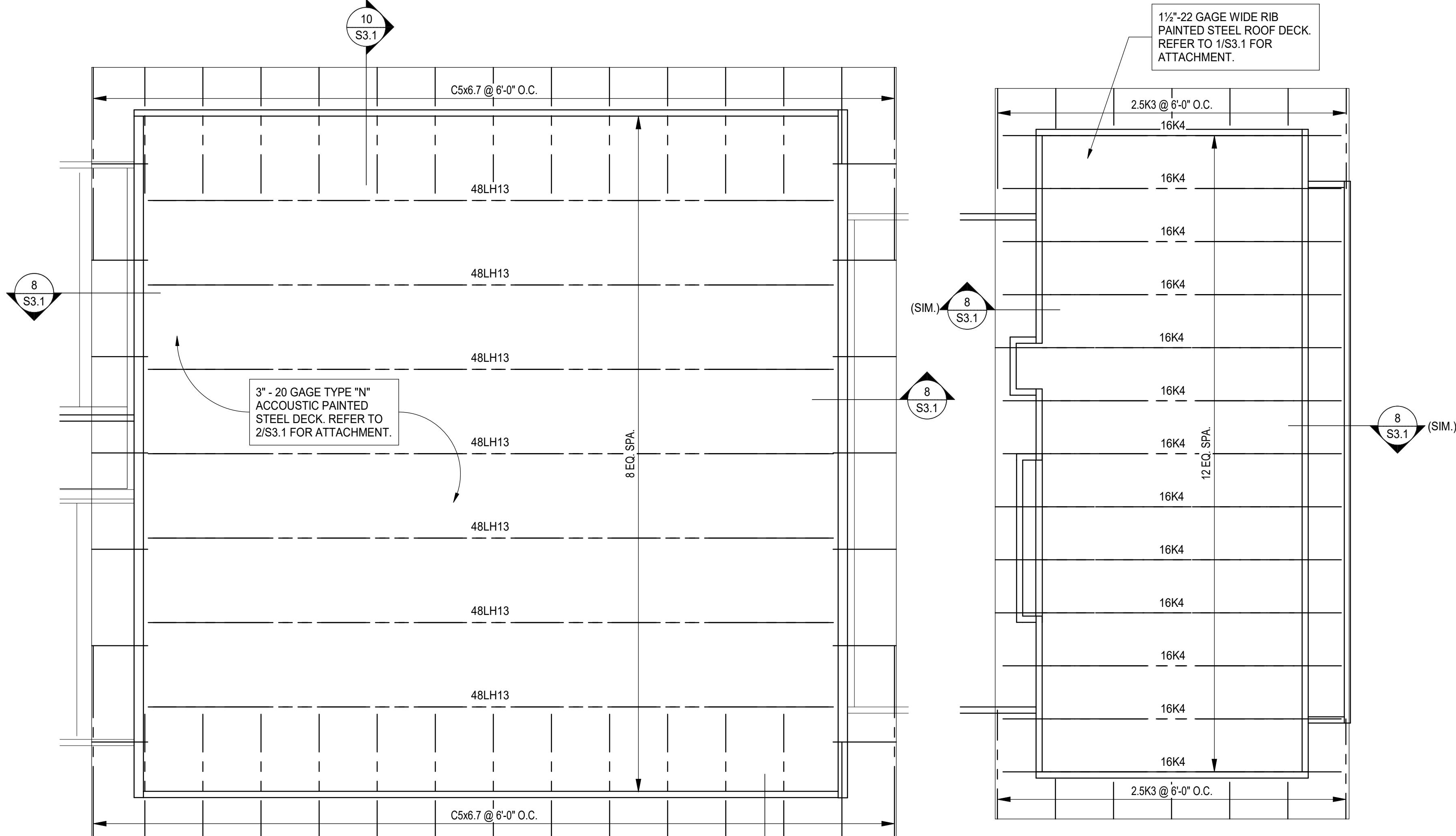
NOTES:

1. JOIST BEARING ELEVATION = SEE PLAN
2. ALL ROOF JOISTS TO HAVE 2 1/2" SEATS (U.N.O.)
3. HORIZONTAL BRIDGING REQUIRED FOR ALL BAR JOISTS
4. PER SJI CODE OF STANDARD PRACTICE
5. SEE ARCH. DWGS FOR LOCATION OF BEARING WALLS AND DIMENSIONS NOT SHOWN.
6. BAR JOISTS SUPPORTING RTU SHALL BE DESIGNED TO CARRY THE ADDITIONAL LOAD AS INDICATED ON PLAN.
7. SEE 7/S? FOR ROOF TOP UNIT SUPPORT.
8. SEE 7/S? FOR ROOF OPENING AND ROOF DRAIN SUPPORT.
9. SEE 7/S? FOR ROOF DECK ATTACHMENT DETAIL.
10. IF BEAM REACTIONS NOT SHOWN, THE FACTORED DESIGN REACTION IS HALF OF THE "MAXIMUM TOTAL UNIFORM LOAD (LRFD)" TABULATED IN THE "MANUAL OF STEEL CONSTRUCTION" FOURTEENTH EDITION.
11. A= ___ INDICATES FACTORED AXIAL LOAD IN MEMBER.



ROOF FRAMING PLAN HIGH (LIVING AREA)

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



ROOF FRAMING PLAN HIGH (GARAGE)

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

ROOF FRAMING PLAN HIGH

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

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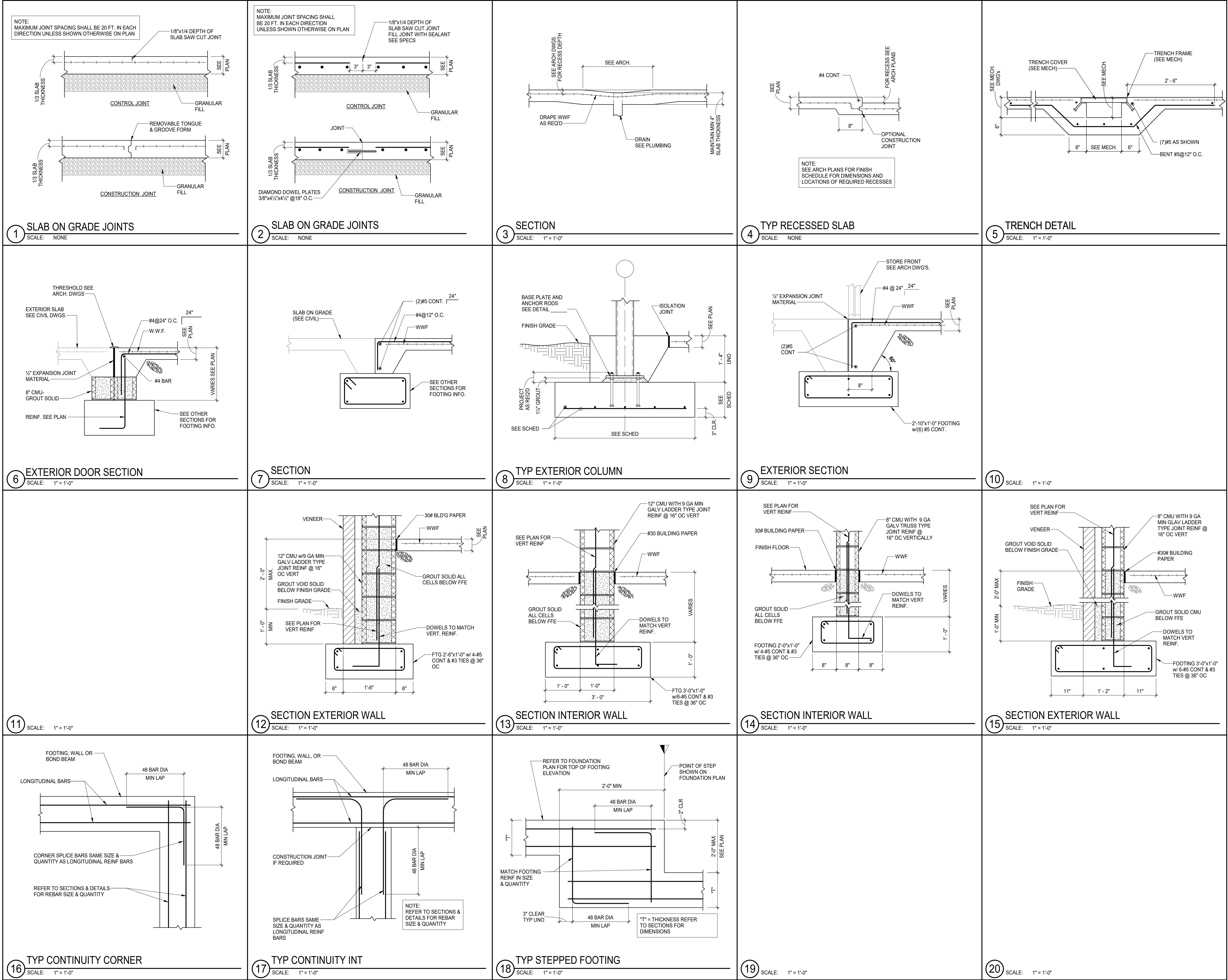
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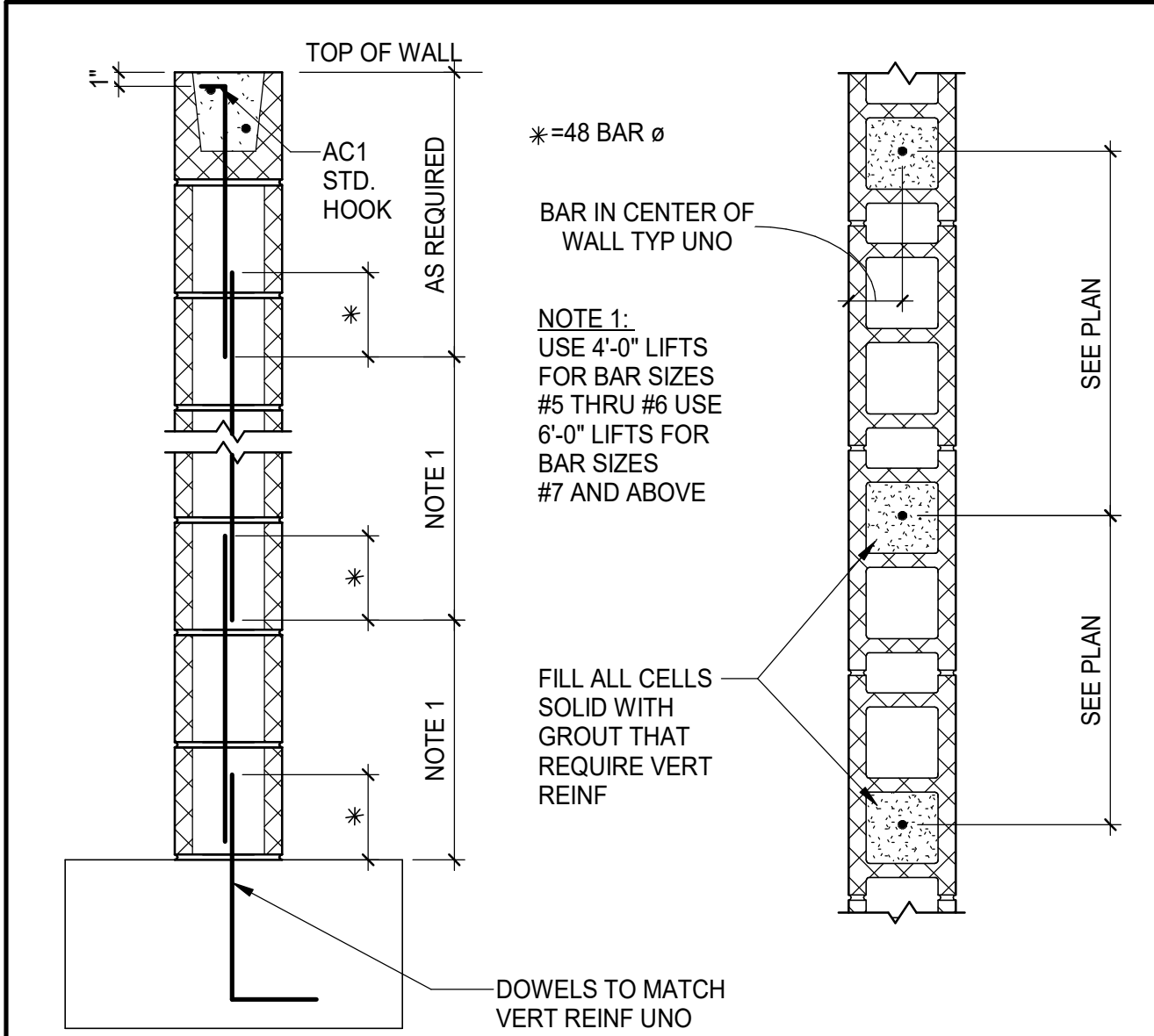
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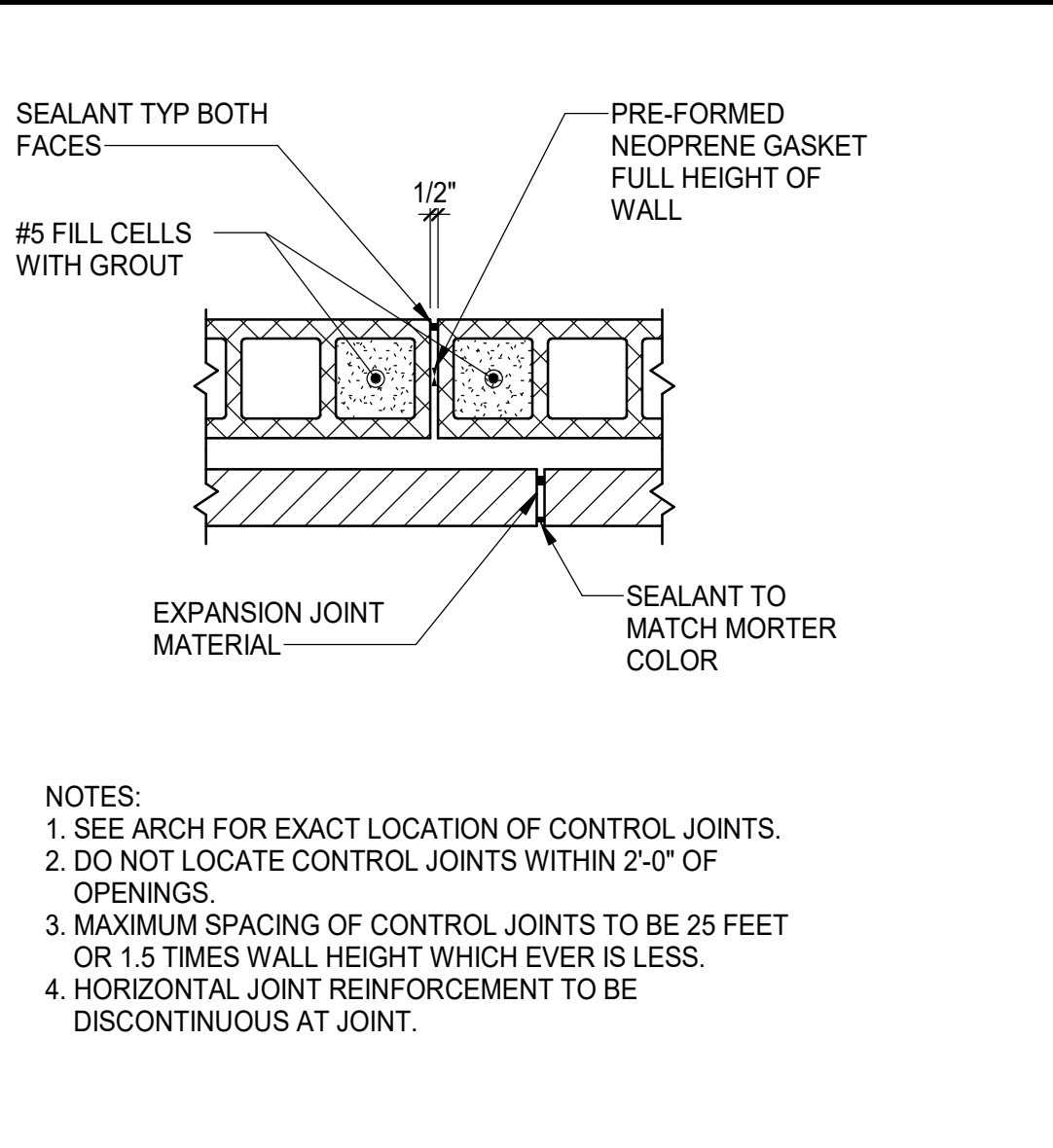
ROOF FRAMING PLAN

S1.2

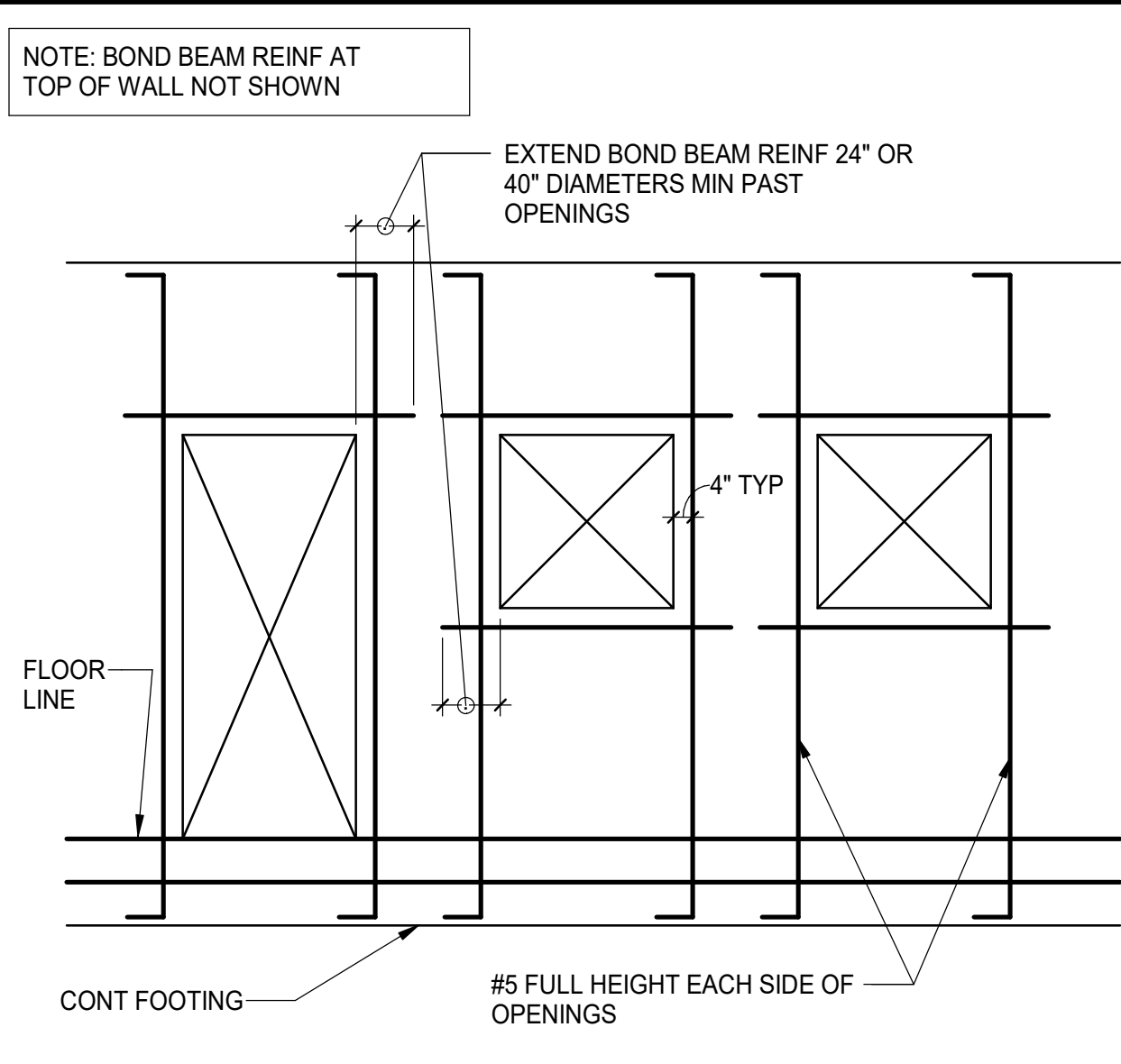




1 DETAIL VERTICAL BARS
SCALE: NONE



2 CONTROL JOINT DETAIL
SCALE: NONE



3 TYPICAL CMU WALL REINFORCING
SCALE: NONE

OPENINGS UP TO 6'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L6x6x5/16	
8" BLOCK	8"x8" CONC w/ 2-#4 T&B & #3 TIES @ 6" OC	
12" BLOCK	12"x8" CONC w/ 2-#4 T&B & #3 TIES @ 6" OC	
OPENINGS 6'-1" TO 10'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L6x6x5/16	
8" BLOCK	8"x16" CONC w/ 2-#6 T&B & #3 TIES @ 6" OC	
12" BLOCK	12"x16" CONC w/ 2 - #6 T&B & #3 TIES @ 6" OC	
OPENINGS 10'-1" TO 16'-0"		
WALL SIZE	LINTEL TYPE	REMARKS
4" VENEER	L6x6x5/16	BOLT TO CONC LINTEL w/ 3/4" ANCHOR BOLTS @ 24" OC
8" BLOCK	8"x24" CONC w/ 2-#6 T&B & #3 TIES @10" OC	
12" BLOCK	12"x24" CONC w/ 2 - #6 T&B & #3 TIES @10" OC	

4 STAND. LINTEL SCHED. @ LOAD BRG WALLS
SCALE: NONE

5 SCALE: 1" = 1'-0"

6 SCALE: 1" = 1'-0"

7 SCALE: 1" = 1'-0"

8 SCALE: 1" = 1'-0"

9 SCALE: 1" = 1'-0"

10 SCALE: 1" = 1'-0"

11 SCALE: 1" = 1'-0"

12 SCALE: 1" = 1'-0"

13 SCALE: 1" = 1'-0"

14 SCALE: 1" = 1'-0"

15 SCALE: 1" = 1'-0"

16 SCALE: 1" = 1'-0"

17 SCALE: 1" = 1'-0"

18 SCALE: 1" = 1'-0"

19 SCALE: 1" = 1'-0"

20 SCALE: 1" = 1'-0"

