NEW FIELD BUILDING

RALLS COUNTY R-II SCHOOL DISTRICT

21622 HIGHWAY 19
CENTER, MO 63436

ISSUED FOR BIDDING
03/05/2021

ARCHITECT OF RECORD:

ARCHITECHNICS
architects • engineers • interior designers

CONTACT PERSON: JACQUES REYNOLDS
PROJECT NO. 5730
STATE OF MISSOURI
ENGINEERING DESIGN FIRM 2014009673
ARCHITECTURAL DESIGN FIRM 2014009673

INDEX OF DRAWINGS

APPLICABLE CODES

INTERNATIONAL BUILDING CODE 2015

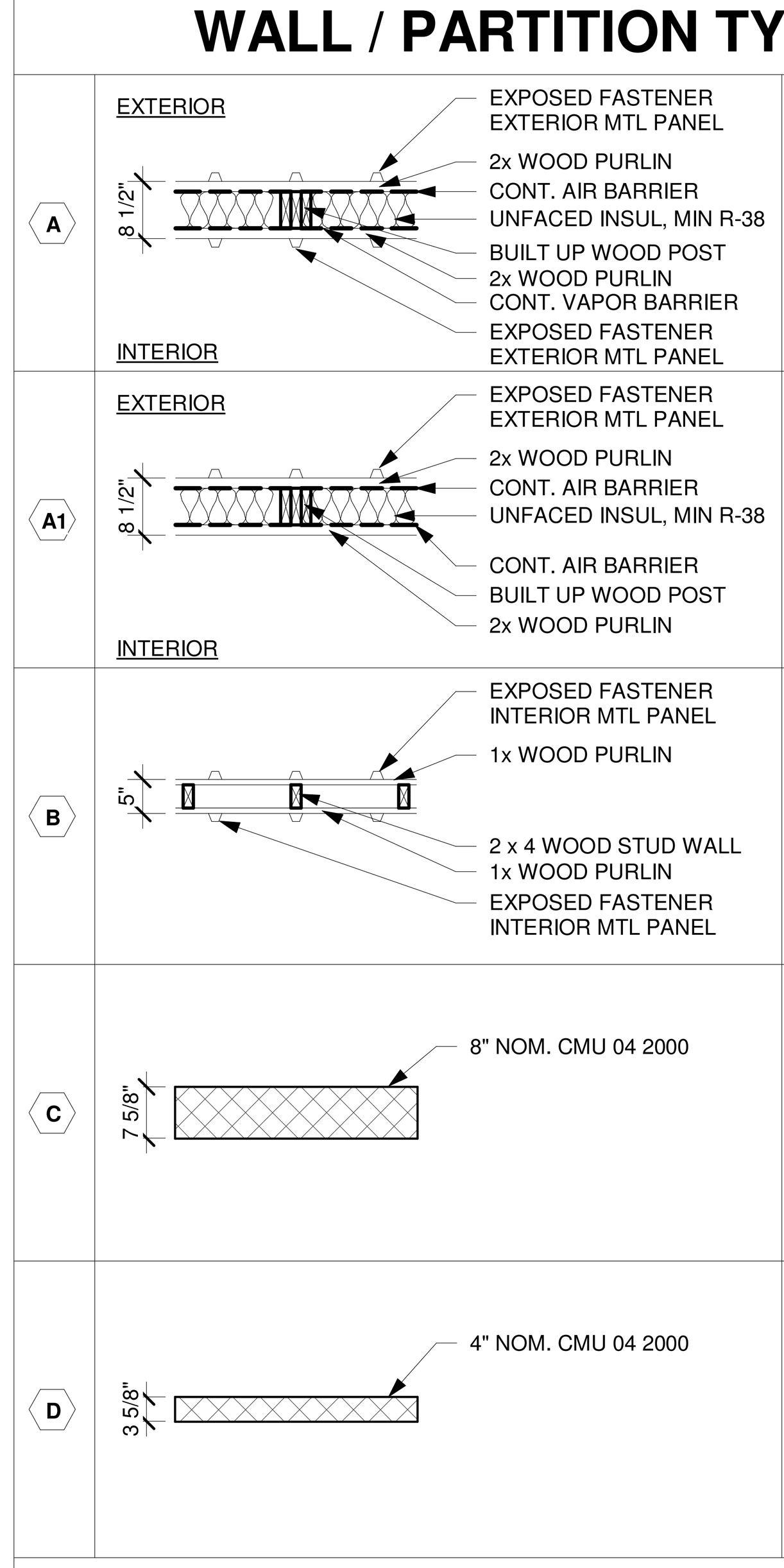
GENERAL NOTES

1 CONTRACTOR TO VERIFY ALL DIMENSIONS.
2 ANY DISCREPANCIES BETWEEN STATED AND EXISTING CONDITIONS SHALL BE REPORTED IMMEDIATELY TO THE ARCHITECT.
3 DISCREPANCIES OR CONFLICTS BETWEEN SPECIFICATIONS AND DRAWINGS SHALL BE MADE KNOWN TO THE ARCHITECT FOR CLARIFICATION.
4 THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THOSE AREAS TO REMAIN UNDISTURBED DURING CONSTRUCTION.
5 THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS, AS PER THE WRITTEN SPECIFICATIONS, TO MAINTAIN SAFETY AT THE CONSTRUCTION SITE, AND HE IS SOLELY RESPONSIBLE FOR SAFETY MEASURES. THE CONTRACTOR IS ALSO SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, AND TECHNIQUES REGARDING EXECUTION OF THE WORK.
6 THE CONTRACTOR SHALL CONFORM TO ALL LOCAL AND STATE CODES AND RECEIVE LOCAL AND STATE APPROVAL WHERE NECESSARY PRIOR TO CONSTRUCTION.
7 THE CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES AND OBTAIN ALL PERMITS AND PAY ALL LEGAL FEES. HE SHALL ALSO COMPLY WITH ALL CITY, COUNTY, AND STATE BUILDING LAWS, ORDINANCES, OR REGULATIONS.
8 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE DONE TO THE PREMISES OR ADJACENT PREMISES, OR INJURIES TO THE PUBLIC DURING THE CONSTRUCTION OF THE WORK, CAUSED BY HIMSELF, HIS SUBCONTRACTORS, OR THE CARELESSNESS OF ANY OF HIS EMPLOYEES.
9 THE CONTRACTOR MUST UNDERSTAND THAT THE WORK IS ENTIRELY AT HIS RISK UNTIL SAME IS ACCEPTED, AND HE WILL BE HELD RESPONSIBLE FOR ITS SAFETY.
10 THE CONTRACTOR SHALL FURNISH AND INSTALL ALL NECESSARY TEMPORARY MEASURES FOR THE PROTECTION OF THE WORK, INCLUDING BARRICADES, WARNING SIGNS, LIGHTS, ETC.

ALTERNATES

1. ALTERNATE BID D-1: PROVIDE EXPOSED FASTENER METAL ROOFING SYSTEM IN LIEU OF STANDING SEAM METAL

WALL / PARTITION TYPES



A
EXTERIOR
8 1/2"
EXPOSED FASTENER EXTERIOR MTL PANEL
2x WOOD PURLIN
CONT. AIR BARRIER
UNFACED INSUL, MIN R-38
BUILT UP WOOD POST
2x WOOD PURLIN
CONT. VAPOR BARRIER
EXPOSED FASTENER EXTERIOR MTL PANEL
INTERIOR
A1
EXTERIOR
8 1/2"
EXPOSED FASTENER EXTERIOR MTL PANEL
2x WOOD PURLIN
CONT. AIR BARRIER
UNFACED INSUL, MIN R-38
CONT. AIR BARRIER
BUILT UP WOOD POST
2x WOOD PURLIN
INTERIOR
B
5"
EXPOSED FASTENER INTERIOR MTL PANEL
1x WOOD PURLIN
2 x 4 WOOD STUD WALL
1x WOOD PURLIN
EXPOSED FASTENER INTERIOR MTL PANEL
C
7 5/8"
8" NOM. CMU 04 2000
D
3 5/8"
4" NOM. CMU 04 2000

A — NOTES:

A1 — NOTES:

B — NOTES:
1. 1 HOUR FIRE RATED ASSEMBLY - U465
2. WALL EXTENDS TO FRAMING ABOVE

C — NOTES:
1. WALL EXTENDS 8" MIN ABOVE CEILING

D — NOTES:
1. WALL EXTENDS 8" MIN ABOVE CEILING

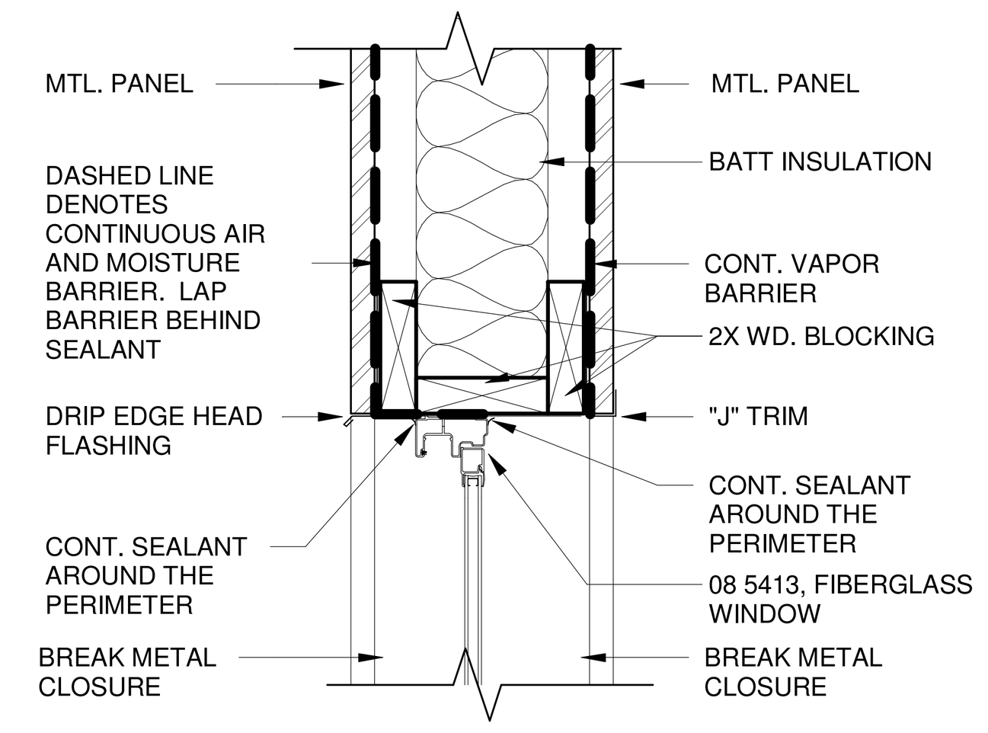
GENERAL WALL / PARTITION NOTES:

1. DIMENSIONS SHOWN ARE ACTUAL
2. OTHER EXTERIOR WALL CONDITIONS MAY OCCUR AT HIGHER ELEVATIONS, REFER TO BUILDING AND/OR INTERIOR ELEVATIONS FOR ADDITIONAL INFORMATION.
3. REFER TO SPEC SECTION 04 2000 AND STRUCTURAL DRAWINGS FOR CMU REINFORCING SIZE, SPACING, BOND BEAM LOCATIONS, LINTEL TYPES ETC FOR MASONRY WALLS.
4. SEE SPECIFICATIONS AND FINISH SCHEDULE FOR APPLICATION OF FINISHES AND FINISH REQUIREMENTS.

4 STATE OF MISSOURI
SCALE: 12" = 1'-0"

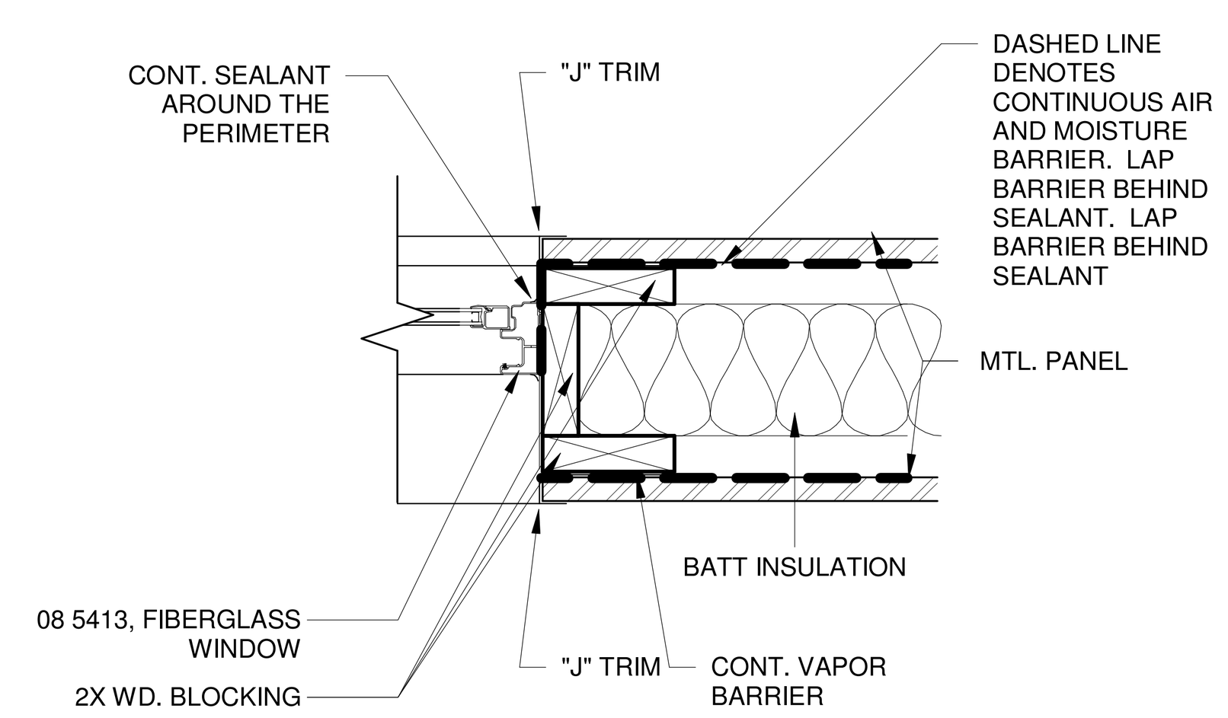
AERIAL PHOTO

AREA OF WORK



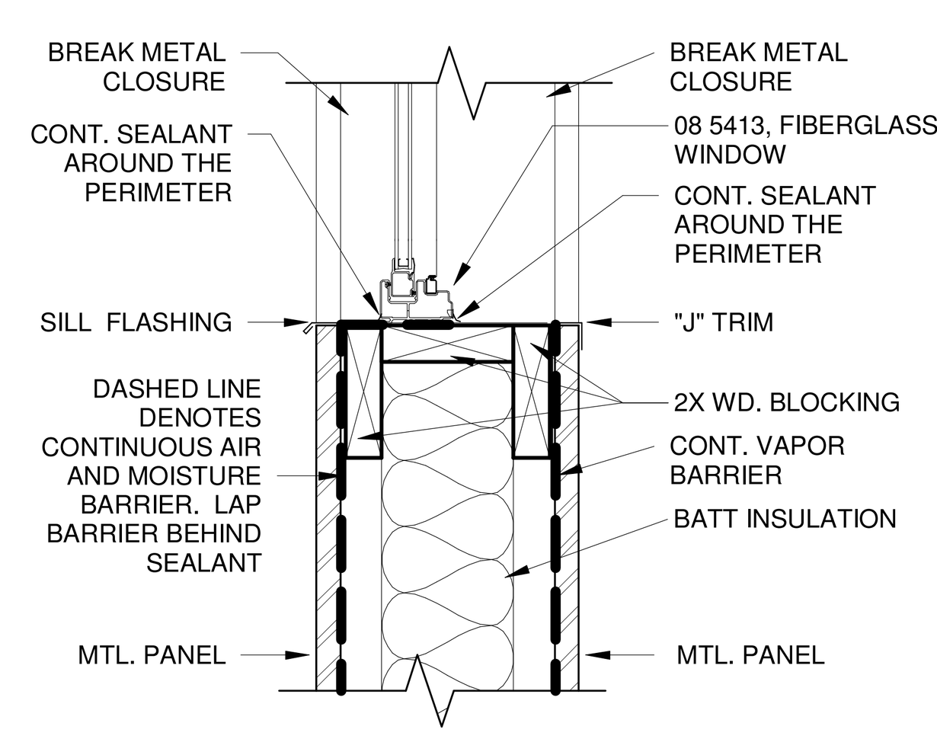
MTL. PANEL
DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER. LAP BARRIER BEHIND SEALANT
DRIP EDGE HEAD FLASHING
CONT. SEALANT AROUND THE PERIMETER
BREAK METAL CLOSURE
MTL. PANEL
BATT INSULATION
CONT. VAPOR BARRIER
2X WD. BLOCKING
"J" TRIM
CONT. SEALANT AROUND THE PERIMETER
08 5413, FIBERGLASS WINDOW
BREAK METAL CLOSURE

11 WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



CONT. SEALANT AROUND THE PERIMETER
"J" TRIM
DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER. LAP BARRIER BEHIND SEALANT. LAP BARRIER BEHIND SEALANT
MTL. PANEL
BATT INSULATION
08 5413, FIBERGLASS WINDOW
2X WD. BLOCKING
"J" TRIM
CONT. VAPOR BARRIER

12 WINDOW JAMB
SCALE: 1 1/2" = 1'-0"

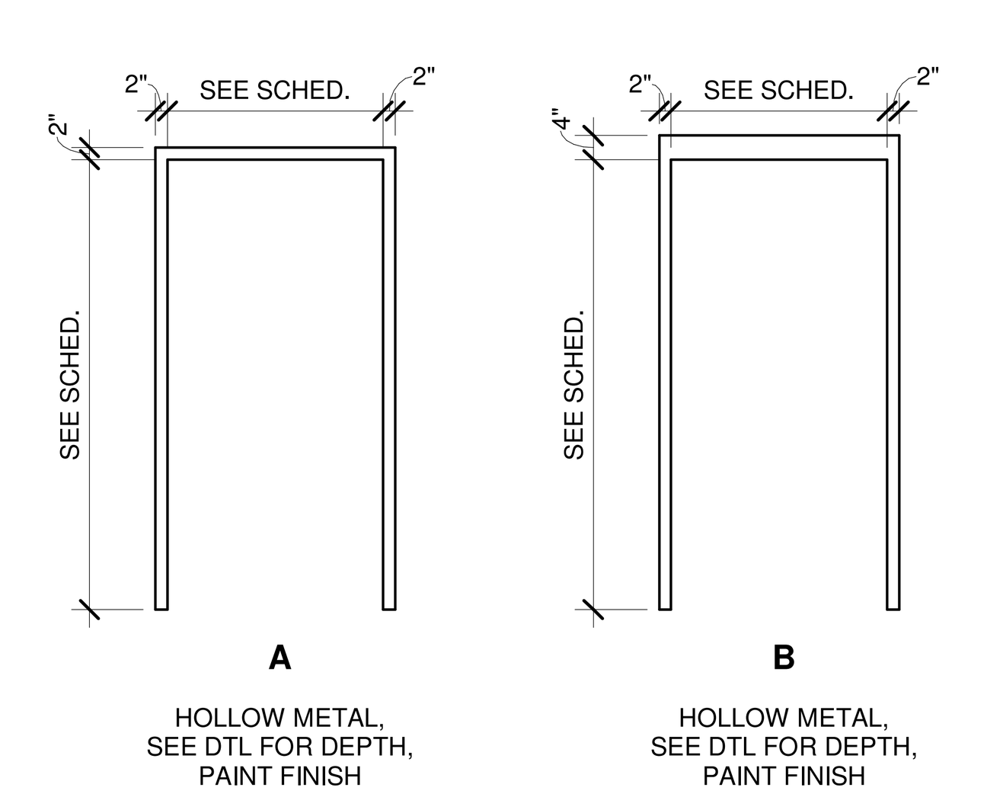


BREAK METAL CLOSURE
CONT. SEALANT AROUND THE PERIMETER
SILL FLASHING
DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER. LAP BARRIER BEHIND SEALANT
MTL. PANEL
BREAK METAL CLOSURE
08 5413, FIBERGLASS WINDOW
CONT. SEALANT AROUND THE PERIMETER
"J" TRIM
2X WD. BLOCKING
CONT. VAPOR BARRIER
BATT INSULATION
MTL. PANEL

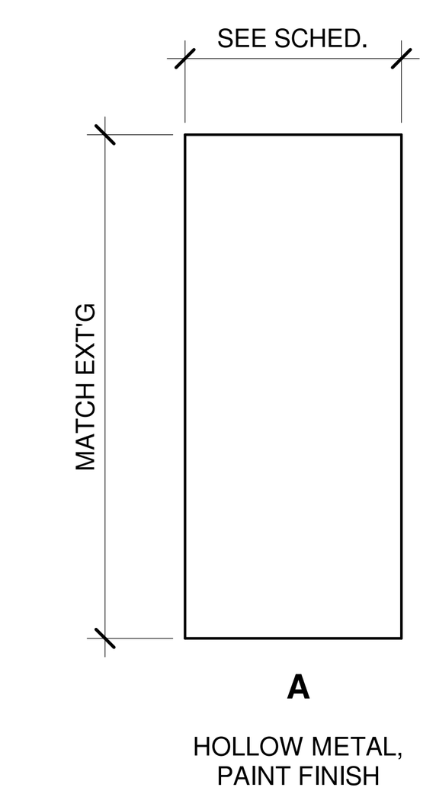
13 WINDOW SILL DETAIL
SCALE: 1 1/2" = 1'-0"

DOOR SCHEDULE

WT	SIZE W.	SIZE HT.	SIZE TH.	DOOR MAT'L	DOOR FIN.	DOOR TYPE	FRAME MAT'L	FRAME FIN.	FRAME TYPE	FRAME HEAD	FRAME JAMB	THRESHOLD	HDWE. GROUP	REMARKS
100	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01	
101	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	
101A	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	
101B	8' - 0"	4' - 0"	3"	MTL	PAINT	N/A	BY MFGR	PAINT	N/A	9/G000	10/G000	N/A	BY MFGR	
102	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01	
103	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	
104	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	
105	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000 SIM	6/G000 SIM	N/A	03	
106	6' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	
107	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01	
108	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	01	
108A	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1B/G000	7/G000	8/G000	N/A	04	
109	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1B/G000	7/G000	8/G000	N/A	04	
110	3' - 0"	7' - 0"	1 3/4"	HM	PAINT	2A/G000	HM	PAINT	1A/G000	5/G000	6/G000	SEE SPEC	02	



1 DOOR FRAME TYPES
SCALE: 3/8" = 1'-0"



2 DOOR TYPES
SCALE: 3/8" = 1'-0"

DOOR HARDWARE SETS

REFER TO SPEC 08 7100

01
- HINGES 1 1/2 PR — 626
- CLOSER — MATCH 626
- PUSH/PULL — 626
- DEADBOLT (KEYED BOTH SIDES) — 626
- SILENCERS

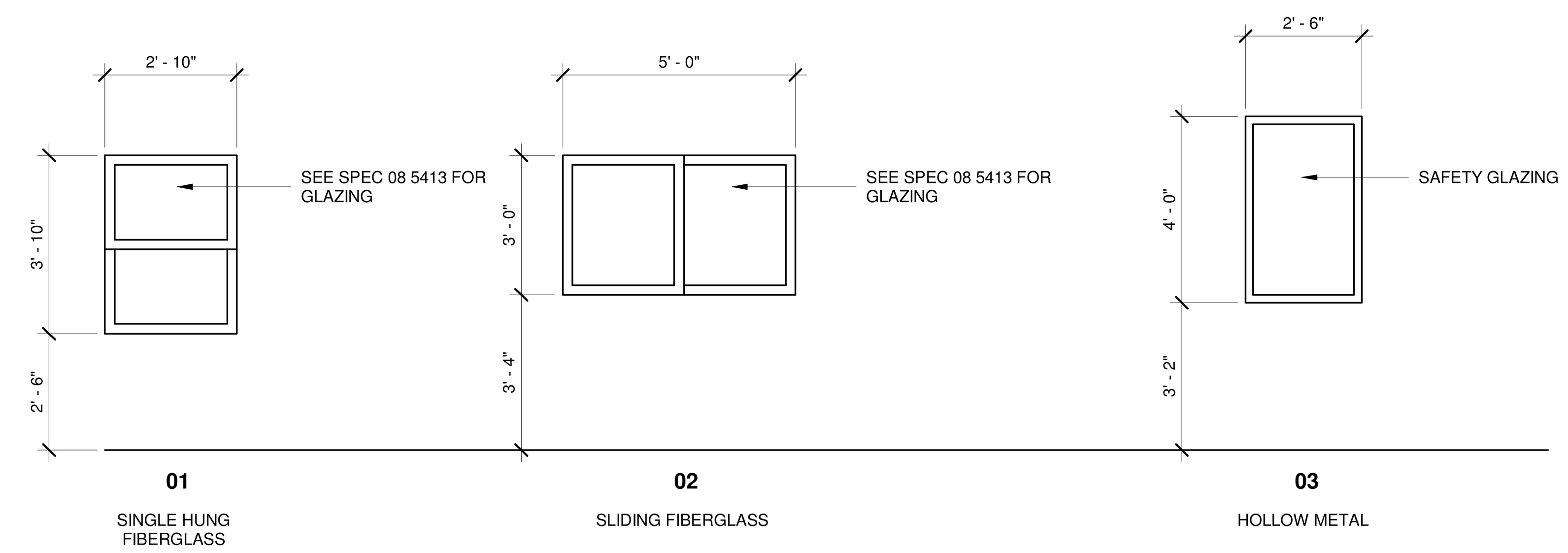
02
- HINGES 1 1/2 PR — 626
- ENTRANCE LOCKSET — 626
- OH STOP OR WALL STOP
- SILENCERS

03
- HINGES 1 1/2 PR — 626
- OFFICE LOCKSET — 626
- WALL STOP
- SILENCERS

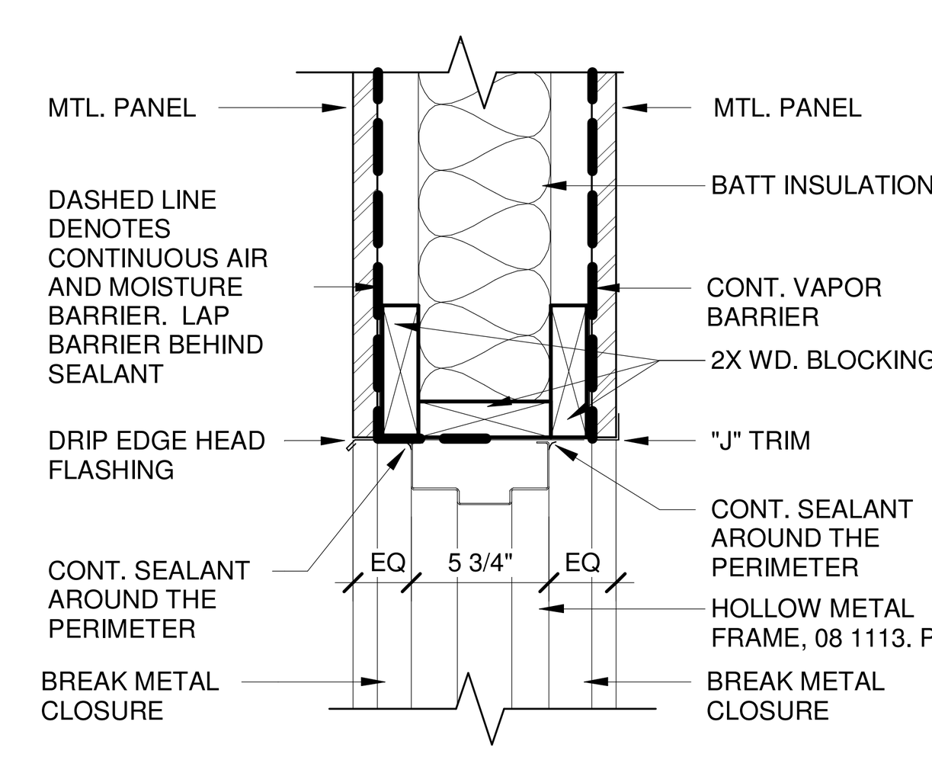
04
- HINGES 1 1/2 PR — 626
- CLOSER — MATCH 626
- PUSH/PULL — 626
- WALL STOP
- SILENCERS

WINDOW SCHEDULE

TYPE	R.O. WIDTH	R.O. HEIGHT	FINISH	HEAD	JAMB	SILL	Glazing THICKNESS	SILL HEIGHT	HEAD HEIGHT	COMMENTS
01	2' - 10"	3' - 10"	PREFIN	11/G000	12/G000	13/G000	see spec 08 5413	2' - 6"	6' - 4"	
01	2' - 10"	3' - 10"	PREFIN	11/G000	12/G000	13/G000	see spec 08 5413	2' - 6"	6' - 4"	
02	5' - 0"	3' - 0"	PREFIN	11/G000	12/G000	13/G000	see spec 08 8000	3' - 4"	6' - 4"	
03	2' - 6"	4' - 0"	PAINT	10/A100	10/A100 SIM	10/A100 SIM	see spec 08 8000	3' - 2"	7' - 2"	

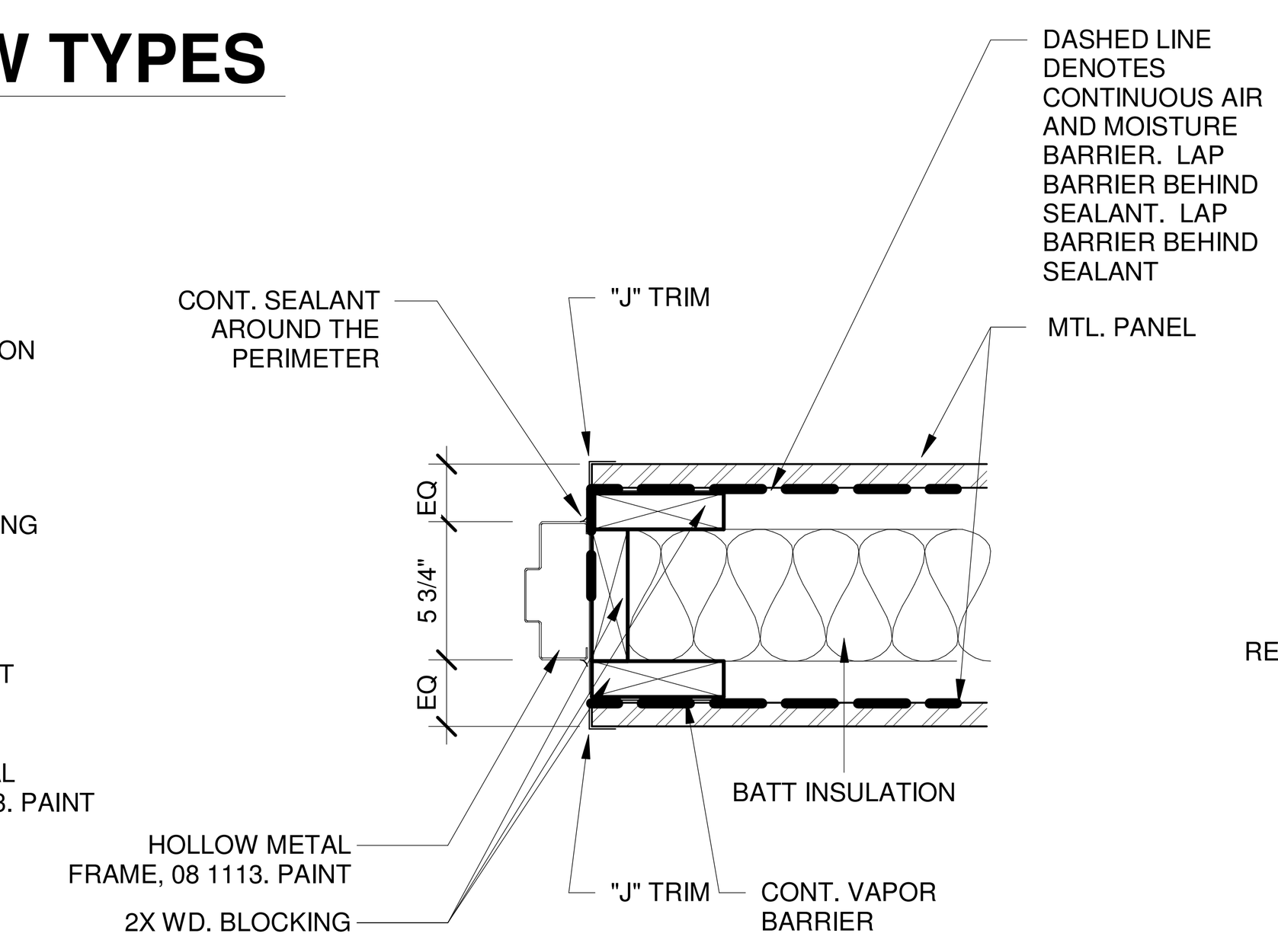


3 WINDOW TYPES
SCALE: 3/8" = 1'-0"



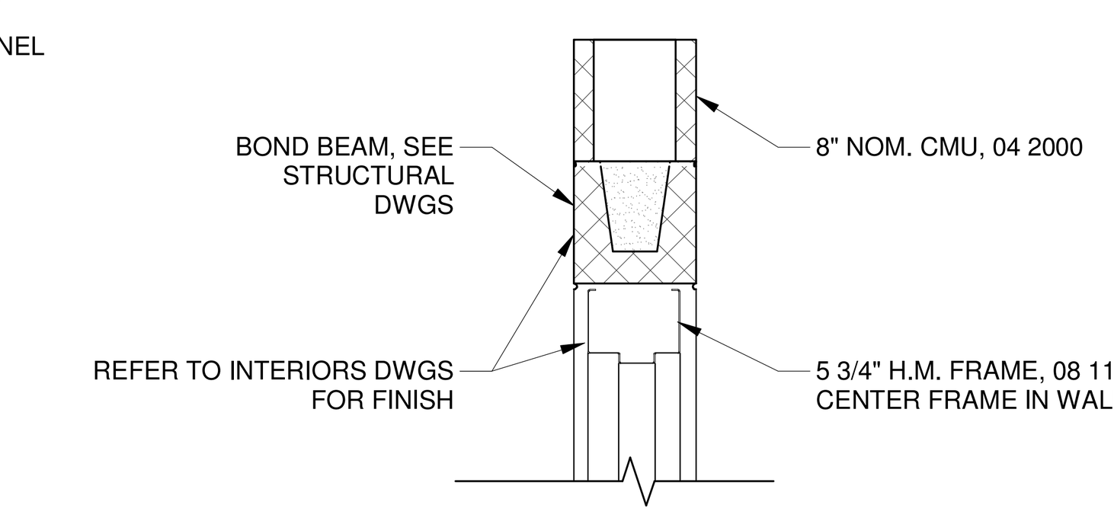
MTL. PANEL
DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER. LAP BARRIER BEHIND SEALANT
DRIP EDGE HEAD FLASHING
CONT. SEALANT AROUND THE PERIMETER
BREAK METAL CLOSURE
EQ
5 3/4"
EQ
MTL. PANEL
BATT INSULATION
CONT. VAPOR BARRIER
2X WD. BLOCKING
"J" TRIM
CONT. SEALANT AROUND THE PERIMETER
HOLLOW METAL FRAME, 08 1113. PAINT
BREAK METAL CLOSURE

5 DOOR HEAD
SCALE: 1 1/2" = 1'-0"

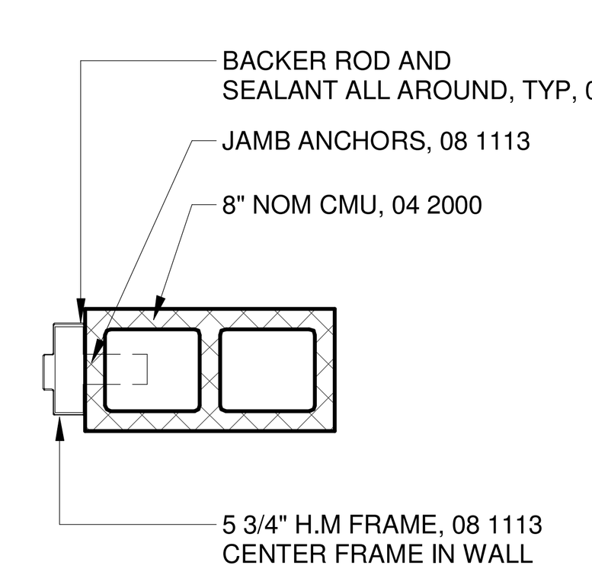


CONT. SEALANT AROUND THE PERIMETER
"J" TRIM
DASHED LINE DENOTES CONTINUOUS AIR AND MOISTURE BARRIER. LAP BARRIER BEHIND SEALANT. LAP BARRIER BEHIND SEALANT
MTL. PANEL
EQ
5 3/4"
EQ
BATT INSULATION
HOLLOW METAL FRAME, 08 1113. PAINT
2X WD. BLOCKING
"J" TRIM
CONT. VAPOR BARRIER

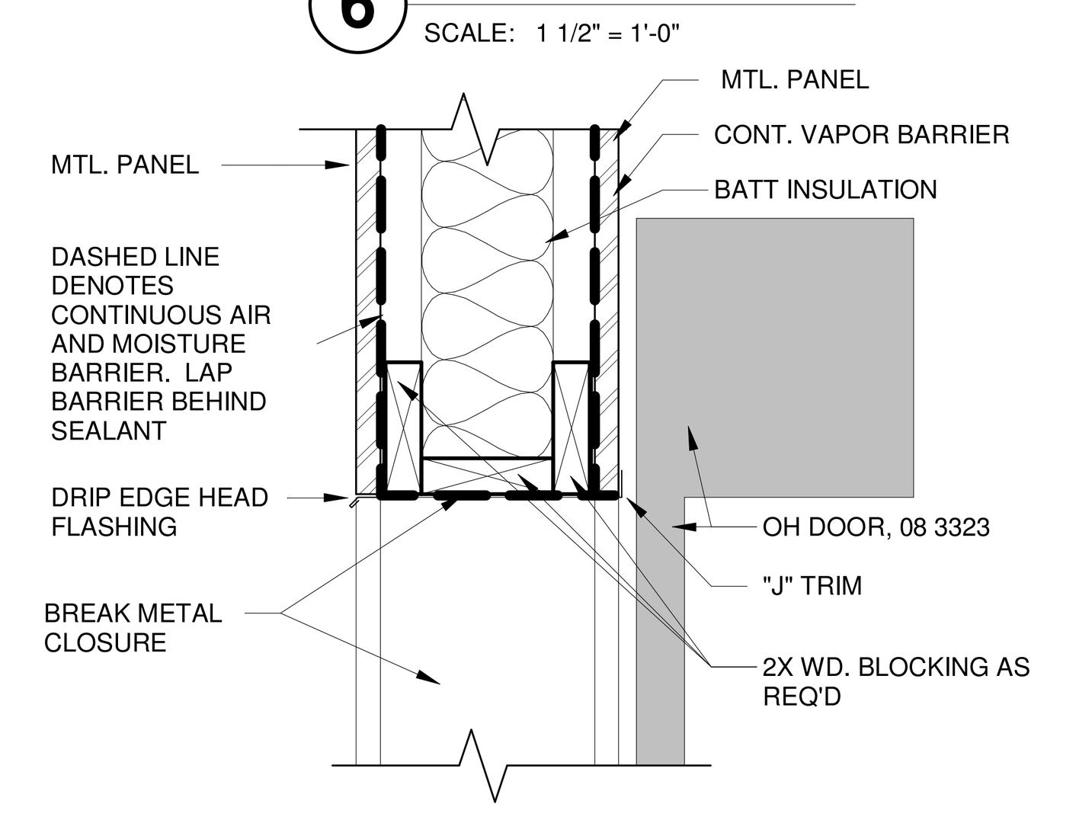
6 DOOR JAMB
SCALE: 1 1/2" = 1'-0"



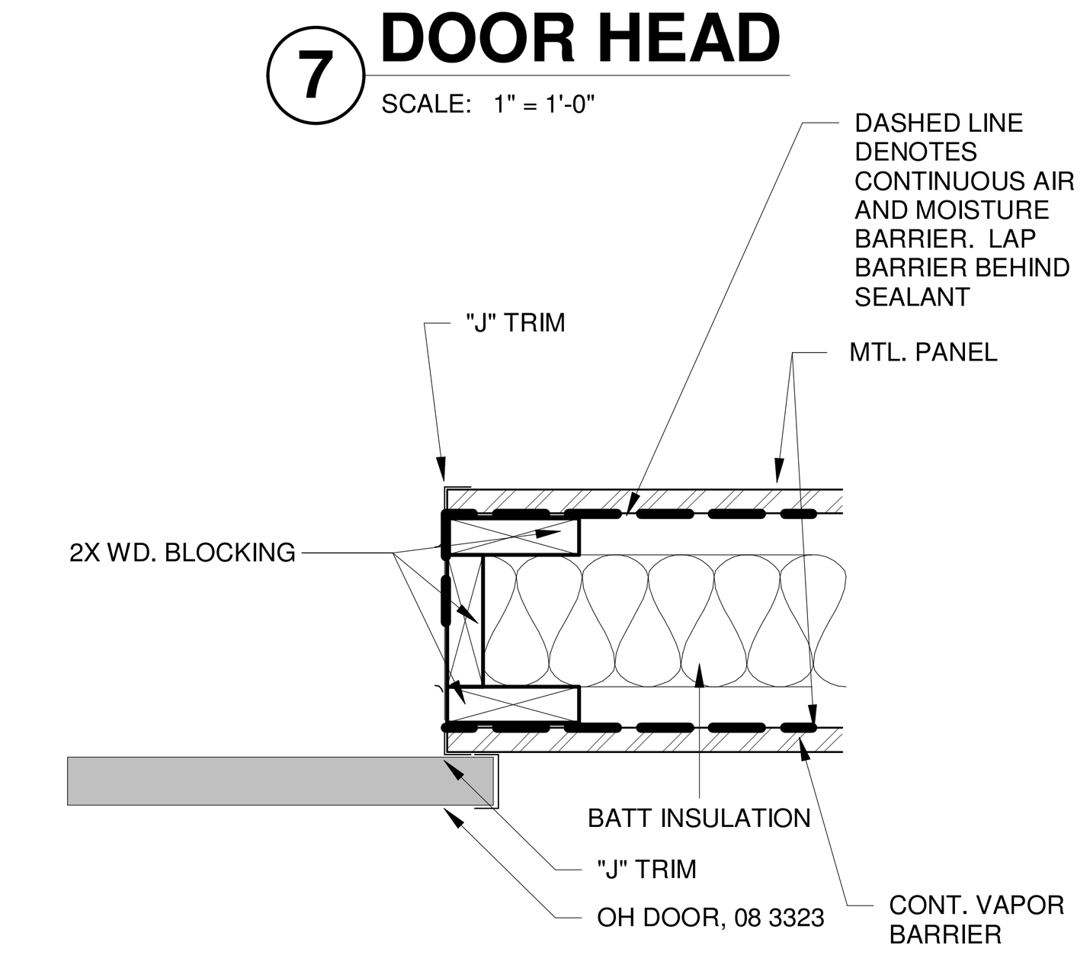
7 DOOR HEAD
SCALE: 1" = 1'-0"



8 DOOR JAMB
SCALE: 1" = 1'-0"



9 OH DOOR HEAD
SCALE: 1 1/2" = 1'-0"



10 OH DOOR JAMB
SCALE: 1 1/2" = 1'-0"

ARCHITECHNICS
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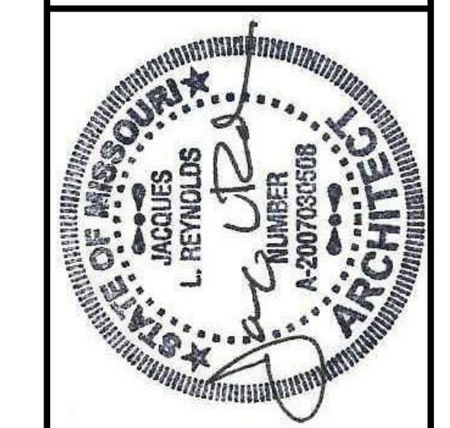
510 Maine Street, Quincy, IL 62301 • 217-222-0554 • info@architechnics.com

OWNER:
RALLS COUNTY R-II SCHOOL DISTRICT
21622 HIGHWAY 19
CENTER, MO 63436



RALLS COUNTY R-II SCHOOL DISTRICT
NEW FIELD BUILDING
21622 HIGHWAY 19
CENTER, MO 63436

BIDDING PHASE

NOT FOR CONSTRUCTION
ISSUE DATE: 03/05/21

REVISIONS

NO.	Date	Description

PROJECT NUMBER: 6003B

TITLE

DWG. NO.
G000

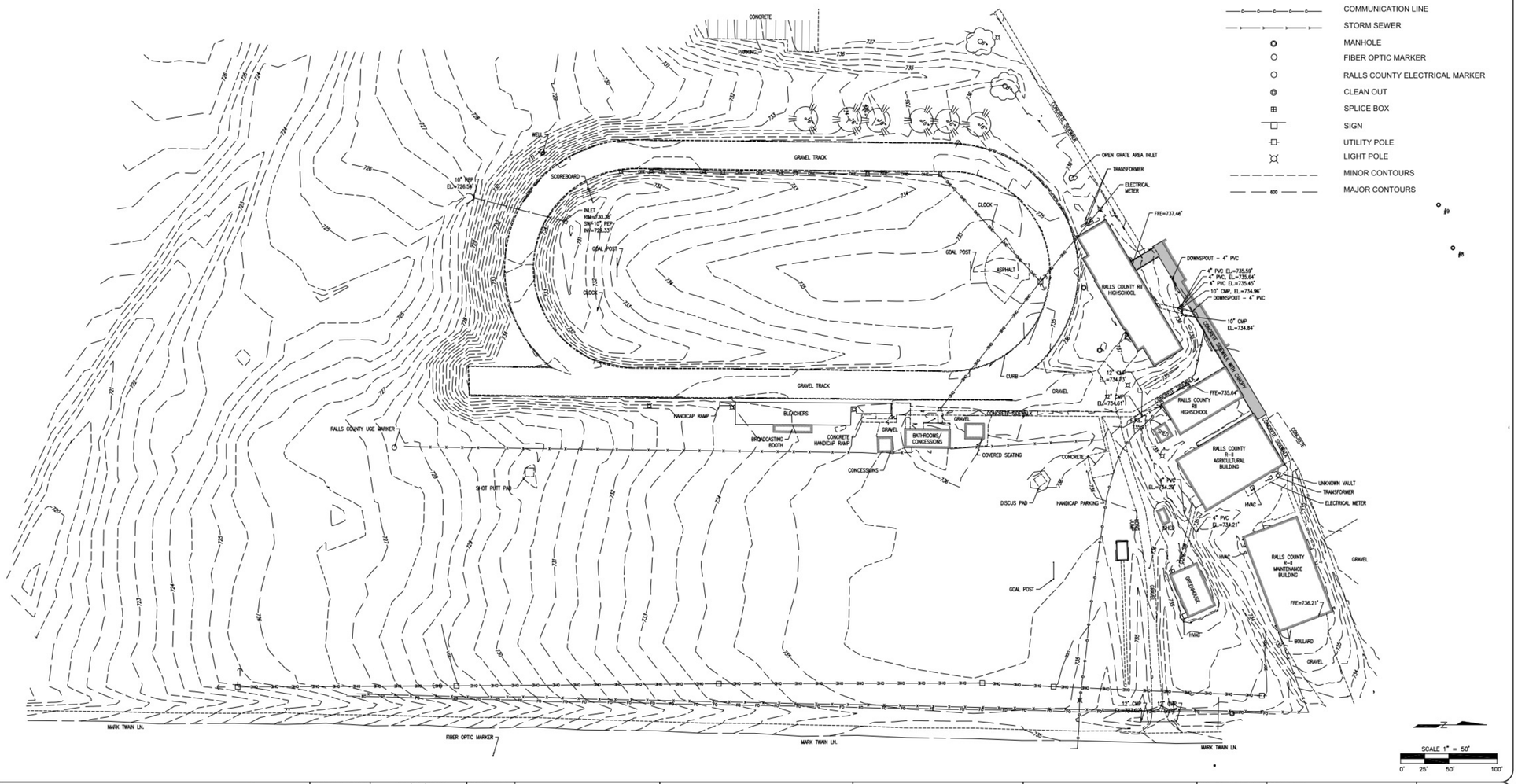
RALLS COUNTY R-II HIGH SCHOOL CONTROL				
1	1342589.42	534264.51	735.11	105-CP1 5/8 REBAR
2	1342375.22	533885.96	732.25	105-CP2 5/8 REBAR
3	1342365.58	533898.54	733.92	105-CP3 MAG NAIL
4	1342541.98	534177.50	735.50	105-CP4 BM
5	1341962.59	534037.35	734.64	105-CP5 MAG NAIL
6	1341903.58	533942.90	733.05	105-CP6 MAG NAIL
7	1342796.36	534890.64	734.97	105-5/8 REBAR
8	1342736.32	534704.67	736.28	105-CUT X
9	1342721.44	534660.10	736.27	105-CP9 MAG NAIL
10	1342821.99	534632.37	735.41	105-5/8 REBAR
11	1341537.83	534141.80	729.74	103-5/8 PIN
12	1341226.04	534362.55	727.68	103-5/8 PIN

UTILITY NOTE

UTILITIES AND EXISTING INFORMATION SHOWN ARE APPROXIMATE AND WERE LOCATED FROM A COMBINATION OF FIELD SURVEYS, INFORMATION PROVIDED BY THE USING AGENCY, AND FIELD OBSERVATION. CONTRACTOR IS RESPONSIBLE TO BECOME FAMILIAR WITH ALL CONSTRUCTION DOCUMENTS, TO CALL J.U.L.I.E., AND PERFORM ANY INSPECTIONS NECESSARY TO FIELD VERIFY LOCATIONS OF UTILITIES AND ALL OTHER EXISTING INFORMATION PRIOR TO ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO LOCATE AND PROTECT ALL UNDERGROUND FACILITIES/UTILITIES DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AS PUBLISHED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION. ANY DAMAGE TO ANY UTILITIES SHALL BE PROMPTLY REPORTED TO THE USING AGENCY. REPAIRS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE USING AGENCY, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITIES MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY, AND USING AGENCY. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES PRIOR TO ANY WORK IN AND AROUND UTILITY-OWNED INFRASTRUCTURE AND MAKE THEM AWARE OF WORK TO BE PERFORMED. EXISTING UTILITIES WHICH ARE DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION, SHALL BE REPAIRED AND/OR REPLACED WITHOUT ADDITIONAL COMPENSATION. CONFLICTS WITH PROPOSED CONSTRUCTION AND UTILITIES TO REMAIN ARE TO BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER FOR COORDINATION WITH THE USING AGENCY.

EXISTING

- FD. MONUMENT AS NOTED
- CENTERLINE
- EDGE OF PAVEMENT
- WATER LINE
- GAS LINE
- OVERHEAD ELECTRIC
- UNDERGROUND ELECTRIC
- FIBER OPTIC
- COMMUNICATION LINE
- STORM SEWER
- MANHOLE
- FIBER OPTIC MARKER
- RALLS COUNTY ELECTRICAL MARKER
- CLEAN OUT
- SPLICE BOX
- SIGN
- UTILITY POLE
- LIGHT POLE
- MINOR CONTOURS
- MAJOR CONTOURS



DEC 03, 2020 11:32 AM NLEACH
L:\JOBS\2020\280.2002 RALLS COUNTY SCHOOL\DRAWINGS\280.2002_V-TP-EG.DWG

3/3/2021 10:48:9 AM © ARCHITECHNICS INC.

Prairie Engineers, P.C.
106 Washington St.
Keokuk, IA 52632
(217) 605-0403
www.prairieengineers.com
Engineering Corporation No.: 2016036823

DRAWING DATE	12/03/2020		REVISION 1		
DESIGNED BY			BY & DATE		
DRAWN BY	EC	12/01/20	REVISION 2		
CHECKED BY	JT	12/01/20	BY & DATE		

GENERAL NOTES
RALLS COUNTY R-II SCHOOL DISTRICT
21622 HIGHWAY 19
CENTER, MISSOURI 63436

PEI PROJECT NO.	280.2001
PROJECT NAME	RALLS COUNTY R-II
FILENAME	280.2002_V-TP-EG.dwg
DRAWING SCALE	NOTED

C100
1 of 1 sheets

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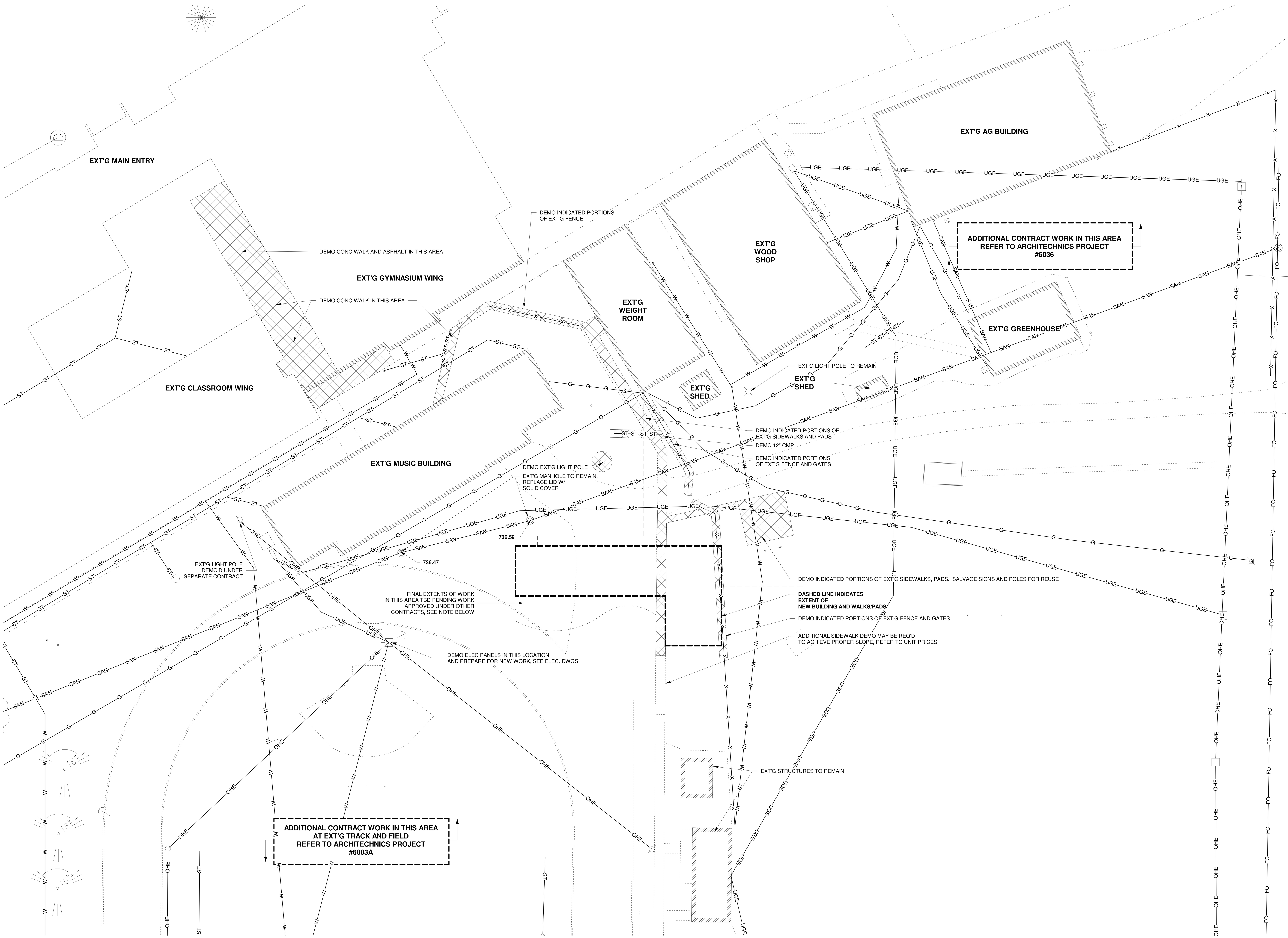
REVISIONS

NO.	Date	Description

PROJECT NUMBER: 6003B

SURVEY

DWG. NO.
G001



1 SITE PLAN -DEMO

SCALE: 1" = 20'-0"

0 10' 20' 40'

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NO.	Date	Description

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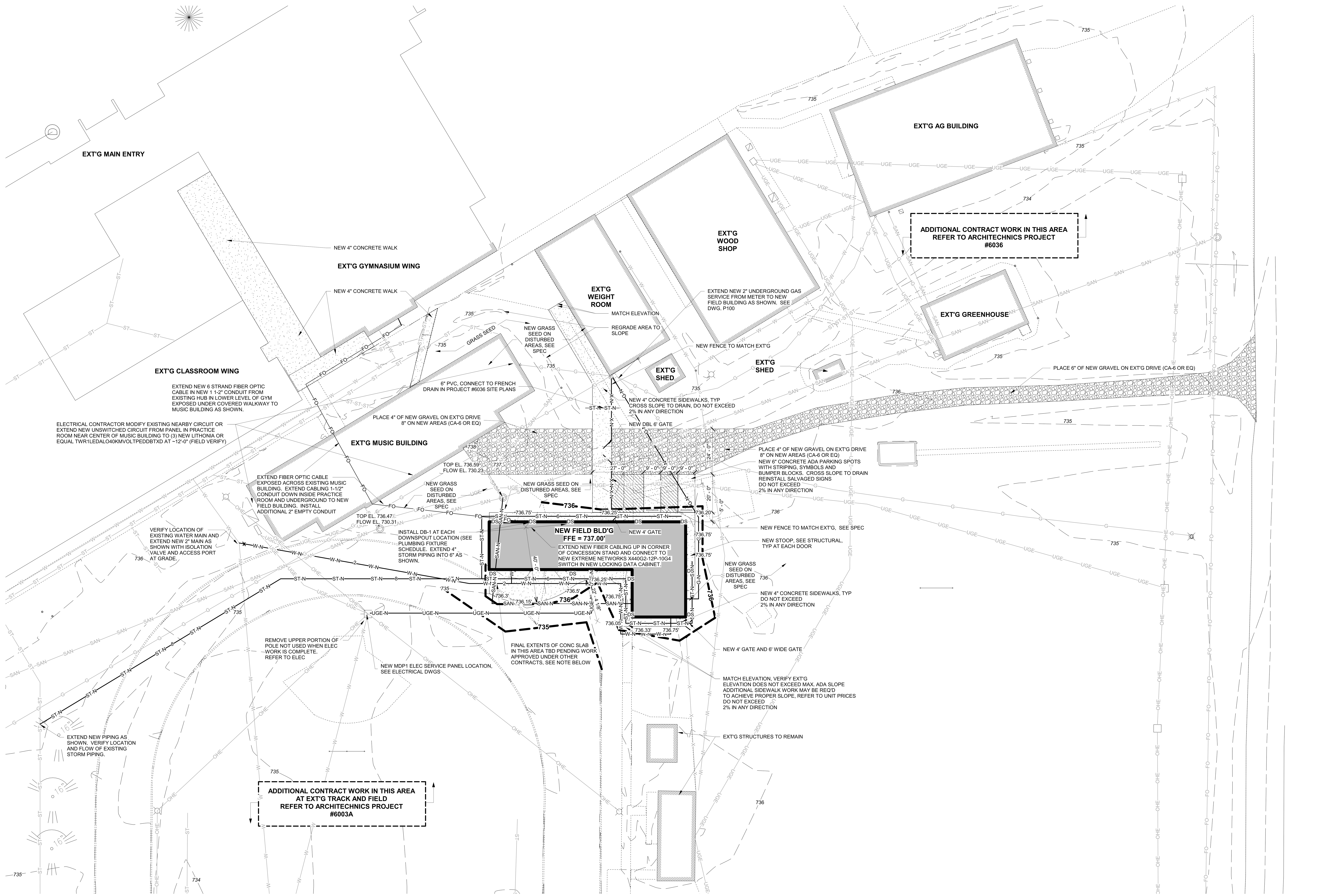
SITE DEMO

DWG. NO.

C100



1 SITE PLAN

SCALE: 1" = 20'-0"

0 10' 20' 40'

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REVISIONS

NO.	Date	Description

PROJECT NUMBER: 6003B

SITE PLAN

DWG. NO.
C101

GENERAL NOTES

1. ALL DRAWINGS AND SPECIFICATIONS ARE CONSIDERED TO BE A PART OF THE PROJECT CONTRACT DOCUMENTS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO THE START OF CONSTRUCTION SO A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT/ ENGINEER.

2. CONTRACTOR SHALL VERIFY IN FIELD ALL DIMENSIONS, ELEVATIONS AND MEMBER SIZES AS SHOWN ON THE CONTRACT DRAWINGS FOR THE EXISTING CONSTRUCTION, PRIOR TO THE DETAILING OR FABRICATION OF ANY NEW STRUCTURAL ELEMENT. CONTRACTOR SHALL DOCUMENT ANY CONSTRUCTION-RELATED DISCREPANCIES. CONTRACTOR SHALL FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW (28) CALENDAR DAYS PRIOR TO THE SCHEDULED START OF ANY DETAILING OR FABRICATION.

3. STRUCTURAL DRAWINGS ARE TO BE COORDINATED AND USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS. REFER TO OTHER TRADE DRAWINGS FOR (BUT NOT LIMITED TO) PITS, TRENCHES, EQUIPMENT PADS, BASES, DEPRESSIONS, MECHANICAL OR PLUMBING SUPPORTS, SLEEVES, STAIRS OR DUCT PENETRATIONS.

4. ARCHITECHNICS, INC. SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OR CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THIS PROJECT, AND SHALL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

5. ARCHITECHNICS, INC. SHALL NOT BE RESPONSIBLE FOR, NOR HAVE CONTROL OVER, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTORS, ANY OF THEIR AGENTS, OR EMPLOYEES, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL TEMPORARY SHORING AND BRACING REQUIRED FOR THE CONSTRUCTION OF THIS PROJECT. ALL SHORING AND BRACING MEMBERS AND CONNECTIONS SHALL BE OF SUFFICIENT STRENGTH TO SUPPORT THE IMPOSED LOADS. TEMPORARY MEMBERS AND CONNECTIONS SHALL NOT BE REMOVED UNTIL PERMANENT MEMBERS ARE IN PLACE AND FINAL CONNECTIONS ARE MADE.

7. THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE THE PROJECT LIMITS DURING EXCAVATION AND FOUNDATION CONSTRUCTION. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS, CAUSED BY CONSTRUCTION TECHNIQUES IS THE RESPONSIBILITY OF THE CONTRACTOR.

8. NO FIELD MODIFICATIONS TO ANY STRUCTURAL COMPONENTS SHALL BE MADE WITHOUT PRIOR APPROVAL BY THE ARCHITECT / STRUCTURAL ENGINEER. THIS INCLUDES, BUT IS NOT LIMITED TO REVISIONS DUE TO MISLOCATION, MISFIT, OR ANY OTHER CONSTRUCTION ERRORS.

9. NO OPENING SHALL BE PLACED IN ANY STRUCTURAL MEMBER (OTHER THAN AS INDICATED ON APPROVED SHOP DRAWINGS) UNTIL THE LOCATION HAS BEEN APPROVED BY THE ARCHITECT / STRUCTURAL ENGINEER.

10. PROVIDE SLEEVE LAYOUTS FOR ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS (ALL TRADES ARE INCLUDED). LAYOUTS ARE TO BE SUBMITTED TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

11. SUPPORT ALL ROOF MOUNTED EQUIPMENT OR EQUIPMENT SUSPENDED FROM FLOORS OR THE ROOF ONLY ON/FROM BEAMS DESIGNATED FOR SUCH PURPOSE. IF NO SUPPORT HAS BEEN DESIGNATED, OR IF A QUESTION ARISES, NOTIFY ARCHITECT / STRUCTURAL ENGINEER PRIOR TO ERECTION OF EQUIPMENT.

12. ALL DETAILS, SECTIONS, AND NOTES ON THE DRAWINGS ARE INTENDED TO BE TYPICAL FOR SIMILAR SITUATIONS ELSEWHERE, UNLESS OTHERWISE NOTED. FOR DETAILS AND DIMENSIONS NOT INDICATED ON THE STRUCTURAL DRAWINGS, SEE THE ARCHITECTURAL DRAWINGS.

13. DO NOT SCALE DRAWINGS. PRINTED DIMENSIONS HAVE PRECEDENCE OVER SCALED DRAWINGS AND LARGE-SCALE OVER SMALL-SCALE DRAWINGS. CONTRACTOR TO DETERMINE FINAL DIMENSION WITH AOR.

14. MATERIALS AND EQUIPMENT SHALL BE STORED AND TRANSPORTED IN A MANNER SO AS NOT TO EXCEED THE ALLOWABLE FLOOR OR ROOF LOADING INDICATED IN THE "SCHEDULE OF BUILDING DESIGN LOADS" ON THE CONSTRUCTION DOCUMENTS OR THE ALLOWABLE CAPACITY OF THE CONSTRUCTED MEMBER, WHICHEVER IS SMALLER.

SHOP DRAWINGS

1. ALL SHOP DRAWING SUBMITTALS SHALL BE AS DESCRIBED IN THE PROJECT SPECIFICATIONS OR IN THESE NOTES IF THERE IS NO PROJECT SPECIFICATION.

2. SHOP DRAWINGS AND RELATED MATERIALS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTING TO THE ARCHITECT / STRUCTURAL ENGINEER. THE GENERAL CONTRACTOR SHALL REVIEW ALL SUBMISSIONS FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS, MEANS, METHODS, TECHNIQUES, SEQUENCES, AND OPERATION OF CONSTRUCTION, TECHNICAL CONTENT, COORDINATION OF TRADES, DIMENSIONAL ACCURACY, SAFETY PRECAUTIONS AND PROGRAMS INCIDENTAL THERETO, ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE GENERAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL APPROVE AND SO STAMP EACH SUBMISSION

3. THE STRUCTURAL DRAWINGS SHALL NOT BE USED AS THE BACKGROUNDS FOR THE PRODUCTION OF ANY SHOP DRAWINGS THAT ARE SUBMITTED FOR REVIEW.

4. SUBMIT (1) ONE REPRODUCIBLE AND (1) PRINT FOR REVIEW. (1) ONE REPRODUCIBLE WILL BE RETURNED UPON COMPLETION OF REVIEW. MULTIPLE COPIES OF DRAWINGS WILL NOT BE MARKED-UP WITH REVIEW COMMENTS.

5. ANY DEVIATIONS FROM THE ORIGINAL DESIGN OR DESIGN CRITERIA AS SPECIFIED ON THE CONTRACT DOCUMENTS OF THE PROJECT SHALL BE NOTED (BUBBLED, NOTE, ETC.) ON THE SHOP DRAWINGS THAT ARE SUBMITTED FOR APPROVAL.

6. ALL CHANGES TO RESUBMITTED SHOP DRAWINGS SHALL BE BUBBLED.

STRUCTURAL SYSTEM

1. THE GRAVITY LOADS RESISTING SYSTEM CONSISTS OF 2x WOOD PURLINS SUPPORTING A STANDING SEAM METAL ROOF SYSTEM. THE WOOD PURLINS ARE IN TURN SUPPORTED BY METAL PLATE CONNECTED WOOD TRUSSES AND 2x LAMINATED WOOD COLUMNS.

2. THE LATERAL LOAD RESISTING SYSTEM SHALL CONSIST OF WOOD FRAMED COLUMN AND TRUSS FRAMES. FRAMES SHALL BE DESIGNED BY THE PRE-ENGINEERED WOOD FRAME BUILDING SUPPLIER (DELEGATED DESIGN).

FOUNDATIONS

1. FOUNDATION STRUCTURE IS BASED ON THE USE OF CONTINUOUS STRIP FOOTINGS APPLYING A MAXIMUM PRESSURE OF 1,200 POUNDS PER SQUARE FOOT TO THE SOIL OR ISOLATED SPREAD FOOTINGS APPLYING A MAXIMUM PRESSURE OF 1,500 POUNDS PER SQUARE FOOT TO THE SOIL.

2. ALL ENGINEERED FILL IS TO BE COMPACTED TO ACHIEVE THIS BEARING PRESSURE AS VERIFIED BY FIELD TESTING BY A LICENSED GEOTECHNICAL ENGINEER. IF FIELD CONDITIONS DO NOT PROVIDE THIS MINIMUM VALUE, THE ARCHITECT AND ARCHITECT / STRUCTURAL ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.

3. SLABS-ON-GRADE ARE DESIGNED USING A MODULUS OF SUBGRADE REACTION VALUE (k) OF 50 PCI.

4. SHOULD UNSUITABLE BEARING CONDITIONS BE ENCOUNTERED DURING EXCAVATION, NOTIFY THE OWNER, ARCHITECT, AND ARCHITECT / STRUCTURAL ENGINEER BEFORE CONTINUING WITH CONSTRUCTION.

5. THE CONCRETE FOR EACH ISOLATED FOOTING SHALL BE PLACED IN ONE (1) CONTINUOUS PLACEMENT.

FOUNDATIONS (CONT'D)

6. ALL SLABS-ON-GRADE SHALL BE PLACED OVER AN EXTREME LOW PERMEANCE VAPOR BARRIER, 15 MIL MINIMUM THICKNESS, OVER A BASE/SUBBASE AS SPECIFIED BY THE GEOTECHNICAL ENGINEER FOR THE PROJECT. EXISTING SUBBASE WILL BE COMPACTED IN PLACE OR WILL BE CUT OUT AND REPLACED WITH AN ENGINEERED FILL AS SPECIFIED BY A GEOTECHNICAL ENGINEER.

7. THE CONTRACTOR MUST PROVIDE SURFACE DRAINAGE AND PUMPS TO PROTECT ALL EXCAVATION FROM FLOODING. FLOODING OF ANY EXCAVATION AFTER APPROVAL OF THE SUBGRADE WILL BE CAUSE FOR COMPLETE RE-PREPARATION AND RE-APPROVAL OF THE SUBGRADE.

8. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY MEASURES TO PREVENT ANY WATER, FROST OR ICE FROM PENETRATING ANY FOOTING OR SLAB SUBGRADE BEFORE AND AFTER PLACING OF CONCRETE AND UNTIL SUCH SUBGRADES ARE FULLY PROTECTED BY THE PERMANENT BUILDING STRUCTURE.

9. THE CONTRACTOR SHALL REVIEW ALL EXISTING SITE CONDITIONS AND THE SUBSURFACE SOILS EXPLORATION REPORT AND ESTABLISH SPECIFIC "CONSTRUCTION PROCEDURES AND SEQUENCES" FOR THE EXCAVATION, COMPACTION, FILL AND INSTALLATION OF THE NEW BUILDING FOUNDATION. SUBMIT THESE FOR REVIEW TO THE OWNER'S SOIL TESTING LABORATORY, OWNER'S REPRESENTATIVE, ARCHITECT / STRUCTURAL ENGINEER. THE CONTRACTOR'S DESIGN, MEANS AND METHODS FOR FOUNDATION CONSTRUCTION SHALL MINIMIZE SETTLEMENT OF ADJACENT CONSTRUCTION. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR ALL REMEDIAL WORK RESULTING FROM SUCH SETTLEMENT.

10. RECORDS OF ANY EXISTING SUBGRADE INTERFERENCES OTHER THAN THOSE INTERFERENCES SHOWN OR INDICATED ON THE CONSTRUCTION DOCUMENTS, ARE NOT CURRENTLY AVAILABLE. DURING EXCAVATION WORK, INTERFERENCES MAY BE DISCOVERED. CONTRACTOR SHALL DOCUMENT CONSTRUCTION-RELATED DIMENSIONS OF ALL INTERFERENCES. CONTRACTOR TO FURNISH THE ABOVE INFORMATION IN THE FORM OF DETAILED SKETCHES TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW.

11. REFER TO THE **TESTING AND INSPECTION** SECTION OF THESE NOTES FOR THE FOUNDATION TESTING AND INSPECTION REQUIREMENTS.

STRUCTURAL CONCRETE

1. 1. CONCRETE MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE AMERICAN CONCRETE INSTITUTE PUBLICATIONS:
   - A. ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE A FOR BUILDINGS"
   - B. ACI 302 - "RECOMMENDED PRACTICE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION"
   - C. ACI 304 - "ACI MANUAL OF CONCRETE INSPECTION"
   - D. ACI 311 - "RECOMMENDED PRACTICE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE"
   - E. ACI 315 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
   - F. ACI 318 - "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
   - G. ACI 347 - "RECOMMENDED PRACTICE FOR CONCRETE FORMWORK"

2. PROVIDE CONCRETE TO OBTAIN THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
   - A. SPREAD FOOTINGS..f'c = 4000 PSI
   - B. WALL FOOTINGS...f'c = 4000 PSI
   - C. PIERS...f'c = 4000 PSI
   - D. INTERIOR SLABS-ON-GRADE...........................f'c = 4000 PSI
   - E. EXTERIOR SLABS-ON-GRADE..........................f'c = 4000 PSI

3. EXTERIOR FLATWORK, STAIRS, RAMPS, ETC. SHALL HAVE A WATER/CEMENT RATIO ≤ 0.40

4. LABORATORY TEST REPORTS OR MATERIAL CERTIFICATES FOR CONCRETE MATERIALS AND MIX DESIGN TEST DATA, IN CONFORMANCE WITH ACI STANDARDS, SHALL BE SUBMITTED FOR REVIEW FOR EACH TYPE OF CONCRETE TO BE USED. EACH SUBMITTED MIX DESIGN SHALL IDENTIFY THE APPLICATION FOR WHICH THE MIX WILL BE USED.

5. ALL CONCRETE SHALL BE NORMAL WEIGHT UNLESS NOTED OTHERWISE.

6. ALL CONCRETE ELEMENTS SUBJECT TO FREEZING AND THAWING DURING CONSTRUCTION OR OVER THE SERVICE LIFE OF THE STRUCTURE SHALL CONTAIN AN AIR ENTRAINMENT ADMIXTURE AS SPECIFIED IN ACI-318, PART 3.

7. NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE.

8. THE CONTRACTOR SHALL SUBMIT CHECKED, DETAILED REINFORCEMENT SHOP DRAWINGS SHOWING THE LOCATIONS AND DETAILING OF ALL FOOTINGS, WALLS, PIERS, BEAMS, COLUMNS, SLABS, CONSTRUCTION JOINTS, CONTROL JOINTS, ETC., PRIOR TO FABRICATION. DETAILS SHALL INCLUDE STEEL SIZES, LAPS, SPACING AND PLACEMENT.

9. THE MINIMUM CONCRETE COVER FOR CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
   - A. CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH...3"
   - B. CONCRETE EXPOSED TO EARTH OR WEATHER
     - a. NO. 6 THROUGH NO. 18 BARS................................2"
     - b. NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER...1 1/2"
   - C. CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
     - a. SLABS, WALLS, JOISTS:
       - • NO. 14 AND NO. 18 BARS.....................1 1/2"
       - • NO. 11 BAR AND SMALLER.....................3/4"
     - b. BEAMS, COLUMNS:
       - • PRIMARY REINFORCEMENT, TIES, STIRRUPS, SPIRALS.............................1 1/2"
     - c. SHELLS, FOLDED PLATE MEMBERS:
       - • NO. 6 THROUGH NO. 18 BARS..................2"
       - • NO. 5 BAR, W31 OR D31 WIRE, AND SMALLER...1 1/2"

10. PROVIDE ADEQUATE BOLSTERS, HI-CHAIRS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. PROVIDE CONTINUOUS #4 SPACER BARS IN WALLS AND SLABS TO SUPPORT DOWELS.

11. PROVIDE PLASTIC TIPPED ACCESSORIES FOR REINFORCEMENT AT ALL FACES OF EXPOSED CONCRETE, INTERIOR OR EXTERIOR.

12. ALL FIELD BENDING OF REINFORCEMENT SHALL BE DONE COLD. HEATING OF BARS WILL NOT BE PERMITTED.

13. ALL CONSTRUCTION JOINTS, EXCLUDING SLAB-ON-GRADE CONSTRUCTION JOINTS, SHALL BE WIRE BRUSHED, CLEANED, MOISTENED AND A CONCRETE SLURRY APPLIED IMMEDIATELY PRIOR TO PLACING NEW CONCRETE.

14. CONTROL AND CONSTRUCTION JOINTS IN NON-STRUCTURAL SLABS-ON-GRADE SHALL BE PROVIDED AS SHOWN ON DRAWINGS AND DETAILS. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 15'-0" ON CENTER IN ANY DIRECTION. SAWED CONTROL JOINTS SHALL BE OF THE SOFT-CUT TYPE, 0.25 TIMES THE SLAB THICKNESS DEEP, AND CUT AS SOON AS PRACTICAL WITHOUT DISLODGING THE COARSE AGGREGATE AS PART OF THE FINISHING OPERATION. CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS INDICATING ALL CONTROL JOINTS FOR ALL SLAB-ON-GRADE CONSTRUCTION FOR REVIEW PRIOR TO CONSTRUCTING ALL SLABS-ON-GRADE.

15. CONCRETE SLABS-ON-GRADE SHALL BE A MINIMUM OF 5 INCH THICKNESS UNLESS NOTED OTHERWISE. CONCRETE FOR SLAB-ON-GRADE CONSTRUCTION SHALL USE A DESIGN MIX THAT INCORPORATES 1-1/2" MAXIMUM SIZE AGGREGATE, WELL GRADED AND TYPE I OR TYPE II CEMENT. THE MIX SHALL CONTAIN NO ADMIXTURES THAT EXACERBATE SHRINKAGE. PLACEMENT SLUMP FOR THE CONCRETE AT THE POINT OF PLACEMENT SHALL BE INDICATED IN THE PROJECT SPECIFICATION.

16. CONSTRUCTION JOINTS SHALL CONTAIN 1/4"x4-1/2" DIAMOND DOWEL PLATES SPACED AT 18" ON CENTER AND PLACED AT 1/2 OF THE SLAB DEPTH PERPENDICULAR TO THE PLANE OF THE JOINT.

17. AT EXPOSED CONCRETE ELEMENTS, SEE PROJECT SPECIFICATIONS FOR TYPE OF CONCRETE FINISHING REQUIRED.

18. AT ALL EXPOSED TO VIEW CONCRETE ELEMENTS (i.e. BEAMS, GIRDERS, COLUMNS, TOP OF RETAINING WALLS, ETC..), PROVIDE 3/4" CHAMFER AT EDGES.

19. PITCH ALL SLABS TO DRAINS WHERE DRAINS ARE INDICATED ON CONTRACT DRAWINGS.

20. ADDITIONAL BARS SHALL BE PROVIDED AT ALL OPENINGS IN SLABS-ON-GRADE AND CONCRETE WALLS. AT ALL OPENINGS, PROVIDE MINIMUM OF (2) - #4 BARS AT EACH SIDE EXTENDING 2'-0 BEYOND EACH SIDE OF OPENING.

STRUCTURAL CONCRETE (CONT'D)

21. ADDITIONAL BARS PROVIDED: CORNER BARS MATCHING TO HORIZONTAL BARS SHALL BE PROVIDED AT ALL WALL CORNERS AND INTERSECTIONS.

22. AT SLABS-ON-GRADE PROVIDE ADDITIONAL REINFORCING AT RE-ENTRANT CORNERS. PROVIDE MINIMUM OF (2) - #4 BARS, 4'-0 LONG CENTERED ABOUT CORNER.

23. NO ALUMINUM OF ANY TYPE SHALL BE ALLOWED IN THE CONCRETE WORK, UNLESS COATED TO PREVENT ALUMINUM CONCRETE REACTION.

24. IN NO CASE SHALL EMBEDDED CONDUIT BE PLACED ABOVE REINFORCING IN SLAB-ON-GRADE CONSTRUCTION. MINIMUM SPACING OF ADJACENT CONDUITS SHALL BE 3 TIMES THE DIAMETER OR WIDTH OF THE LARGEST CONDUIT. MAXIMUM OUTSIDE DIAMETER OF EMBEDDED CONDUIT SHALL BE NO LARGER THAN ONE-THIRD OF THE SLAB THICKNESS.

25. UNLESS OTHERWISE NOTED ON THE DRAWINGS, SLEEVES FOR PIPES AND CONDUITS PENETRATING GRADE BEAMS AND CONCRETE WALLS SHALL BE STEEL PIPE SLEEVES OF NOMINAL DIAMETER 2 INCHES LARGER THAN THE NOMINAL SIZE OF THE PIPE PENETRATING THE STRUCTURAL MEMBER. THE THICKNESS OF THE SLEEVE SHALL CONFORM TO SCHEDULE 40 BUT NEED NOT BE MORE THAN 3/8 INCH. ALL SUCH SLEEVE LOCATIONS SHALL BE REVIEWED BY THE ARCHITECT/ENGINEER PRIOR TO INSTALLATION.

26. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS LOCATED BELOW GRADE AS SHOWN ON THE DRAWINGS.

27. REFER TO THE SPECIFICATION FOR FLOOR FLATNESS AND FLOOR LEVELNESS REQUIREMENTS.

28. NO CONSTRUCTION SHALL BE MADE WITHOUT REINFORCEMENT. UNLESS OTHERWISE NOTED, THE FOLLOWING PERCENTAGE OF THE GROSS CROSS SECTIONAL AREA SHALL BE PROVIDED AS MINIMUM REINFORCEMENT:
   - A. SLABS:
     - a. TOP & BOTTOM 0.20%
   - B. BEAMS:
     - a. TOP & BOTTOM 0.33%
     - b. STIRRUPS...#4@D" (D=MEMBER DEPTH)
   - C. COLUMNS:
     - a. VERTICAL 1.00%
     - b. TIES ....#4@10"
   - D. WALLS:
     - a. VERTICAL ....0.12% (#5's)
     - b. HORIZONTAL ....0.20% (#5's)
   - E. FOOTINGS:
     - a. HORIZONTAL ....0.18% (#5's)

29. ALL REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL, CONFORMING TO ASTM A615 GRADE 60 UNLESS NOTED OTHERWISE.

30. ALL BAR DETAILING AND ACCESSORIES TO BE FURNISHED SHALL CONFORM TO TYPICAL DETAILS IN THE LATEST ACI STANDARD 315 DETAILING MANUAL, EXCEPT AS OTHERWISE SHOWN, NOTED, OR SPECIFIED.

31. WELDED WIRE FABRIC SHALL CONFORM TO ASTM SPECIFICATIONS A185. ALL WELDED WIRE FABRIC SHALL BE LAPPED TWO PANELS AT EDGES AND ENDS, AND TIED SECURELY. AT EXTERIOR SLABS PROVIDE EPOXY COATED WELDED WIRE FABRIC CONFORMING TO ASTM A884, CLASS A.

32. DETAILING AND ACCESSORIES SHALL CONFORM TO THE ACI DETAILING MANUAL AND TO THE CRSI MANUAL OF STANDARD PRACTICE. CURRENT EDITIONS, UNLESS OTHERWISE NOTED BELOW, ON THE DRAWINGS, OR IN THE SPECIFICATIONS.

33. ALL HOOKS SHALL BE "STANDARD" AS PER ACI STANDARD.

34. THE MINIMUM LENGTH OF ALL SPLICES NOT DIMENSIONED ON THE DRAWINGS SHALL BE AS FOLLOWS:

BAR SIZE	f'c	SLAB/BEAM		WALL		COLUMN VERTICAL
		TOP	OTHER	VERT.	HORIZ.	
#4	4000	26"	21"	21"	26"	-
	5000	24"	19"	19"	24"	
	6000	23"	17"	17"	23"	
#5	4000	33"	25"	25"	33"	19"
	5000	30"	23"	23"	30"	
	6000	28"	21"	21"	28"	
#6	4000	39"	30"	30"	39"	23"
	5000	36"	28"	28"	36"	
	6000	33"	25"	25"	33"	
#7	4000	71"	55"	55"	71"	27"
	5000	64"	50"	50"	64"	
	6000	59"	45"	45"	59"	
#8	4000	81"	63"	63"	81"	30"
	5000	73"	56"	56"	73"	
	6000	67"	51"	51"	67"	
#9	4000	91"	71"	71"	91"	34"
	5000	82"	63"	63"	82"	
	6000	75"	58"	58"	75"	
#10	4000	102"	78"	78"	102"	38"
	5000	90"	71"	71"	90"	
	6000	82"	64"	64"	82"	
#11	4000	111"	86"	86"	111"	42"
	5000	99"	77"	77"	99"	
	6000	91"	71"	71"	91"	

NOTES:
- A. TOP BARS ARE HORIZONTAL BARS PLACED SUCH THAT MORE THAN 12" OF CONCRETE IS CAST IN THE MEMBER BELOW THE SPLICE.
- B. FOR EPOXY COATED BARS MULTIPLY THE LAP LENGTHS SHOWN IN THE TABLE ABOVE BY 1.3 FOR TOP BARS AND 1.5 FOR OTHER BARS.
- C. WHERE BARS OF DIFFERENT SIZE ARE TO BE SPLICED, THE SPLICE LENGTH FOR ALL BARS SHALL BE THAT REQUIRED FOR THE LARGER BAR.
- D. SPLICE LENGTHS SHALL BE SPECIFICALLY DIMENSIONED AT ALL LOCATIONS ON THE SHOP DRAWINGS.
- E. FOR CONCRETE STRENGTH BETWEEN LISTED VALUES, USE MINIMUM SPLICE LENGTH OF HIGHER LISTED VALUE.

35. CONTINUOUS TOP AND BOTTOM BARS, OTHER THAN IN FOOTINGS, WHEN SHOWN IN CROSS SECTION ONLY, SHALL BE LAPPED AS FOLLOWS:
   - A. TOP BARS AT MID SPANS
   - B. BOTTOM BARS CENTERED OVER SUPPORTS.

36. EPOXY ADHESIVE EMBEDDED DOWELS SHALL USE HILTI HY 150 ADHESIVE WITH THE FOLLOWING MINIMUM EMBEDMENT DEPTHS, UNLESS NOTED OTHERWISE:
   #3 - 3" #8 - 9"
   #4 - 5" #9 - 10"
   #5 - 6" #10 - 12"
   #6 - 7" #11 - 14"
   #7 - 8"

37. REFER TO THE **TESTING AND INSPECTION** SECTION OF THESE NOTES FOR THE CONCRETE TESTING AND INSPECTION REQUIREMENTS.

POST INSTALLED ANCHORS

1. WHERE EPOXY SYSTEM IS INDICATED ON THE PLANS OR DETAILS, USE HILTI HY-200 ADHESIVE IN CONCRETE AND HILTI HY-70 IN SOLID GROUTED MASONRY UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY SUBMIT SUBSTITUTE EPOXY SYSTEMS FOR APPROVAL PROVIDED THEY MEET OR EXCEED THE CAPACITY OF HILTI HY-200 OR THE HILTI HY-70 ADHESIVE SYSTEM.

2. DRILL HOLES TO EPOXY MANUFACTURER'S RECOMMENDED SIZE. CLEAN HOLES WITH A CIRCULAR WIRE OR NYLON BRUSH AND BLOW OUT WITH COMPRESSED AIR.

3. WHERE MECHANICAL EXPANSION ANCHORS ARE INDICATED ON THE PLANS OR DETAILS, USE HILTI KWIK BOLT-III IN CONCRETE UNLESS NOTED OTHERWISE. THE CONTRACTOR MAY SUBMIT SUBSTITUTE EXPANSION ANCHOR SYSTEMS FOR APPROVAL PROVIDED THEY MEET OR EXCEED THE CAPACITY OF HILTI KWIK BOLT III'S.

4. POST INSTALLED ANCHORS MUST BE INSTALLED USING THE SPACING AND EDGE DISTANCES GIVEN ON THE PLANS OR DETAILS. IF FIELD CONDITIONS DICTATE THAT THE ANCHOR SPACING OR EDGE DISTANCES BE MODIFIED, THE CONTRACTOR SHALL SUBMIT A FIELD SKETCH TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW PRIOR TO MAKING ANY MODIFICATIONS.

PRE-ENGINEERED WOOD FRAMED BUILDING / PREFABRICATED METAL-PLATE CONNECTED WOOD TRUSSES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE ENGINEERING DESIGN OF ALL WOOD FRAMED BUILDING COMPONENTS (COLUMNS, GIRTS, PURLINS, HEADERS ETC.) AND PREFABRICATED METAL-PLATE CONNECTED WOOD TRUSSES, INCLUDING ANY REQUIRED TEMPORARY OR PERMANENT LATERAL BRACING.

2. MATERIALS
A. PREFABRICATED METAL PLATE CONNECTED WOOD TRUSSES
I. SPECIES: VARIES
II. GRADE: VARIES
III. MODULUS OF ELASTICITY: 1,500,000 PSI (MIN.)
IV. MINIMUM WORKING STRESS
A. EXTREME FIBER IN BENDING, FB: 975 PSI
B. TENSION PARALLEL TO GRAIN, FT: 625 PSI
C. COMPRESSION PARALLEL TO GRAIN, FC: 1300 PSI
D. COMPRESSION PERPENDICULAR TO GRAIN, FC : 405 PSI
E. HORIZONTAL SHEAR, FV: 175 PSI

3. DESIGN SHALL BE BASED ON THE INFORMATION PROVIDED ON THE CONTRACT DOCUMENTS AND IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL-PLATE CONNECTED WOOD TRUSS CONSTRUCTION," TRUSS PLATE INSTITUTE AND THE "NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION," NATIONAL FOREST PRODUCTS ASSOCIATION.

4. THE CONTRACTOR SHALL SUPPLY SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS FOR THE WOOD FRAMED BUILDING, BUILDIGN COMPONENTS AND METAL PLATE CONNECTED WOOD TRUSSES AS OUTLINED IN THE PROJECT SPECIFICATIONS.

5. TRUSS ENDS AND BEARING LOCATIONS SHALL BE CONNECTED TO SUPPORTS WITH METAL FASTENERS PER THE WOOD FRAME BUILDING DESIGN REQUIREMENTS.

6. TRUSSES SHALL BE FABRICATED IN ACCORDANCE WITH THE "NATIONAL DESIGN STANDARD FOR METAL-PLATE CONNECTED WOOD TRUSS CONSTRUCTION," TRUSS PLATE INSTITUTE

7. TRUSSES SHALL BE HANDLED DURING ERECTION IN ACCORDANCE WITH RECOMMENDED PRACTICES SET FORTH IN "HANDLING, INSTALLING AND BRACING WOOD TRUSSES HIB-91", TRUSS PLATE INSTITUTE

8. VERTICAL LOAD BEARING COMPONENTS AND TRUSSES SHALL BE BRACED AS REQUIRED DURING ERECTION TO PREVENT TOPPLING OR DOMINOING.

9. THE WOOD FRAME BUILDING SUPPLIER AND TRUSS MANUFACTURER SHALL INDICATE ON THE SHOP DRAWINGS THE LOCATIONS AND SIZES OR BRACING REQUIRED TO TRANSFER TRUSS MEMBER BUCKLING FORCES TO THE STRUCTURE. UPON REVIEW OF THE SHOP DRAWINGS, STRUCTURAL ENGINEER WILL INDICATE METHOD OF ATTACHMENT AND ADDITIONAL BRACING NEEDED TO TRANSFER MEMBER BUCKLING FORCES TO THE STRUCTURE. CONTRACTOR SHALL INCLUDE IN AND NOTE IN SUBMITTED BID, ALLOWANCE FOR ADDITIONAL BRACING, SIZE TO BE DETERMINED AFTER REVIEW OF SUBMITTAL OF THE WOOD FRAME BUILDING AND METAL-PLATE CONNECTED TRUSS SHOP DRAWINGS.

TIMBER

1. THE DESIGN AND WORKMANSHIP OF ALL WOOD FRAMING SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ANSI/NFOPA NATIONAL DESIGN SPECIFICATION AND THE INTERNATIONAL BUILDING CODE.

2. ALL LUMBER SHALL BE KILN DRIED TO HAVE A MAXIMUM MOISTURE CONTENT OF 15% UNLESS NOTED OTHERWISE.

3. CONNECTIONS OF ALL 2x MATERIAL TO OTHER 2x MATERIAL OR OTHER WOOD MEMBERS SHALL BE AS INDICATED BELOW, UNLESS OTHERWISE NOTED ON THE DRAWINGS, AS NOTED IN THE SPECIFICATIONS OR NOTED WITHIN THE NAILING SCHEDULE BELOW.
A. 2x4, 2x6 - (3) 10d NAILS MIN.
B. 2x8, 2x10, 2x12 - (4) 10d NAILS MIN.

4. MATERIALS
A. ALL FIELD CUT LUMBER (U.N.O.)
I. SPECIES: SOUTHERN PINE OR BETTER (U.N.O.)
II. GRADE: NO. 2 OR BETTER
III. MODULUS OF ELASTICITY: 1,600,000 PSI
IV. MINIMUM WORKING STRESS
a. EXTREME FIBER IN BENDING, FB: 1000 PSI
b. TENSION PARALLEL TO GRAIN, FT: 825 PSI
c. COMPRESSION PARALLEL TO GRAIN, FC: 1650 PSI
d. COMPRESSION PERPENDICULAR TO GRAIN, FC: 565 PSI
e. HORIZONTAL SHEAR, FV: 175 PSI

B. HARDWARE
I. CONNECTIONS FOR WOOD CONSTRUCTION
a. GALVANIZED METAL, GAUGES AND DIMENSIONS AS INDICATED, MANUFACTURED BY SIMPSON OR APPROVED EQUAL.
II. NAILS
a. COATED COMMONS

C. PARALLEL STRAND LUMBER (PSL)
I. ALLOWABLE FLEXURAL STRESS (Fb): 2,900 PSI
II. ELASTIC MODULUS (E): 2,000,000 PSI

5. THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL TIMBER MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR REVIEW AND APPROVAL OF THE STRUCTURAL ENGINEER.

6. NO WOOD TREATMENTS OR OR PRESERVATIVES SHALL BE USED WITHOUT PRIOR REVIEW BY THE ARCHITECT AND STRUCTURAL ENGINEER.

7. ALL WOOD IN CONTACT WITH CONCRETE SHALL BE PRESSURE TREATED IN CONFORMANCE WITH THE REQUIREMENTS OF AWPA. FIELD CUTS OR DRILLING IN PRESSURE TREATED LUMBER SHALL BE THROUGHLY BRUSHED AND COATED WITH A COMPATIBLE PRESERVATIVE LIQUID.

TESTING AND INSPECTIONS

1. ALL TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE DESIGN CODE REFERENCED IN ITEM 1. OF THE STRUCTURAL LOADING SECTION OF THESE NOTES.

2. ALL TESTING SHALL BE PERFORMED BY A QUALIFIED TESTING AGENCY HIRED BY THE OWNER.

3. THE ARCHITECT / STRUCTURAL ENGINEER SHALL BE NOTIFIED OF ANY ITEM FOUND NOT TO BE IN COMPLIANCE WITH THE DESIGN INTENT OF THESE DOCUMENTS.

FOUNDATIONS

4. ALL FOUNDATION EXCAVATIONS SHALL BE OBSERVED AND TESTED BY A REPRESENTATIVE OF A QUALIFIED GEOTECHNICAL ENGINEERING FIRM. DAILY REPORTS OF OBSERVATIONS SHALL BE PREPARED. ALL REPORTS ARE TO BE SUBMITTED TO THE ARCHITECT / STRUCTURAL ENGINEER FOR REVIEW. THE REQUIRED TEST TYPE AND FREQUENCY SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATIONS.

CONCRETE

5. ALL CONCRETE PLACED ON THE PROJECT SHALL BE TESTED FOR SLUMP, AIR CONTENT AND STRENGTH. THE FREQUENCY OF TESTING SHALL BE AS SPECIFIED IN THE PROJECT SPECIFICATION.

6. REINFORCEMENT PLACEMENT SHALL BE INSPECTED BY THE OWNER'S TESTING LABORATORY PRIOR TO ALL CONCRETE POURS. SEE THE SPECIFICATIONS FOR REQUIREMENTS.

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NEW FIELD BUILDING
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BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: **03/05/21**

REVISIONS

NO.	Date	Description

PROJECT NUMBER: **6003B**

STRUCTURAL NOTES

DWG. NO.
S001

NEW RALLS COUNTY FIELD BUILDING

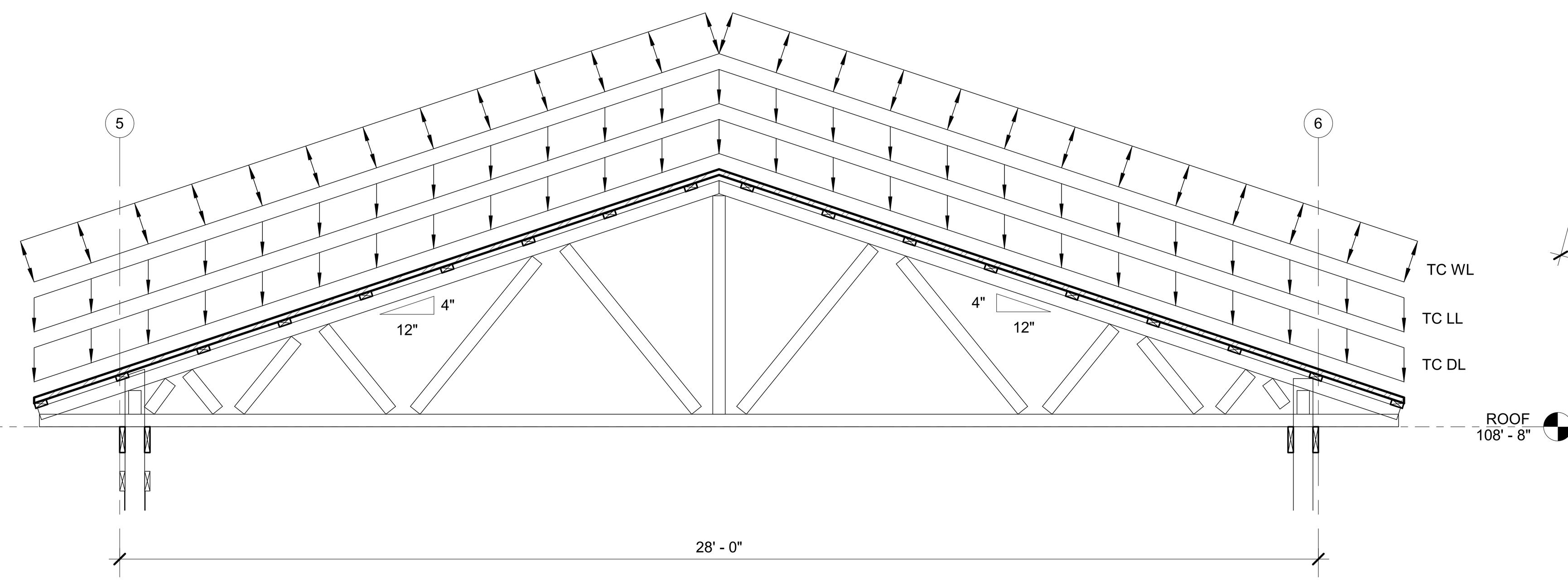
1. BUILDING CODES:
   A. INTERNATIONAL BUILDING CODE 2015
   B. ASCE 7-10

2. DESIGN LOADS:
   A. OCCUPANCY CATEGORY II
   B. DEAD LOADS:
      1. PREFABRIDCATED METAL PLATE CONNECTED WOOD TRUSS ROOF SYSTEM
         a. STANDING SEAM METAL ROOF PANELS = 2 PSF
         b. INSULATION (2" MINIMUM) = 1 PSF
         c. 2x WOOD PURLINS = 3 PSF
         d. MECHANICAL, ELECTRICAL & PLUMBING = 5 PSF
         e. CEILING = 1 PSF
         f. WOOD TRUSSES = 5 PSF
   C. ROOF LIVE LOAD = 20 PSF (MIN.)
   D. ROOF SNOW LOADS:
      1. GROUND SNOW LOAD Pg = 20 PSF
      2. THERMAL FACTOR Ct = 1.0
      3. EXPOSURE FACTOR Ce = 1.0
      3. IMPORTANCE FACTOR Is = 1.0
      4. FLAT ROOF SNOW LOAD Pf = 20 PSF (MINIMUM)
      5. RAIN-ON-SNOW SURCHARGE = 5 PSF
      6. DRIFTING AND SLIDING LOADS - SEE DETAIL X / S002.
   E. PONDING
      1. PONDING IS NOT APPLICABLE FOR ROOF SLOPES 1/4" OR GREATER
   F. WIND LOADING - ANALYTICAL PROCEDURE
      1. BASIC WIND SPEED (3 SECOND GUST) = 115 MPH
      2. EXPOSURE CATEGORY C
      3. IMPORTANCE FACTOR Iw = 1.00
      4. DIRECTIONAL FACTOR Kd = 0.85
      5. TOPOGRAPHIC FACTOR Kzt = 1.0
      6. INTERNAL PRESSURE COEFFICIENT GCPi = +/- 0.18 (ENCLOSED)
      7. MAIN WIND FORCE RESISTING SYSTEM DESIGN PRESSURES: SEE MWFRS WIND DIAGRAMS.
      8. COMPONENTS AND CLADDING DESIGN PRESSURES: PER ASCE 7-10 COMPONENTS AND CLADDING METHOD 2, SEE COMPENTS AND CLADDING WIND DIAGRAMS.
   G. SEISMIC LOADING - EQUIVALENT LATERAL FORCE PROCEDURE:
      1. IMPORTANCE FACTOR Ie = 1.00
      2. SITE CLASS C
      3. SPECTRAL ACCELERATION FOR SHORT PERIODS, Ss: 0.167
      4. SPECTRAL ACCELERATION FOR 1 SEC PERIOD, S1: 0.092
      5. DESIGN SPECTRAL RESPONSE ACCELERATION SHORT PERIOD, Sds = 0.178
      6. DESIGN SPECTRAL RESPONSE ACCELERATION 1 SEC PERIOD, Sd1 = 0.149
      7. SEISMIC DESIGN CATEGORY C
      8. DESIGN COEFFICIENTS AND FACTORS FOR SEISMIC FORCE-RESISTING SYSTEMS
         a. TYPICAL PRE-ENGINEERED WOOD FRAMED CONSTRUCITON
            i. RESISTING SYSTEM - CANTILEVERED TIMBER FRAME
            ii. RESPONSE COEFFICIENT, R = 1.5
            iii. DEFLECTION AMPLIFICATION FACTOR Cd = 1.5
            iv. SYSTEM OVERSTRENGTH FACTOR Xo = 1.5
      9. COMPONENT DESIGN PER ASCE 7-10

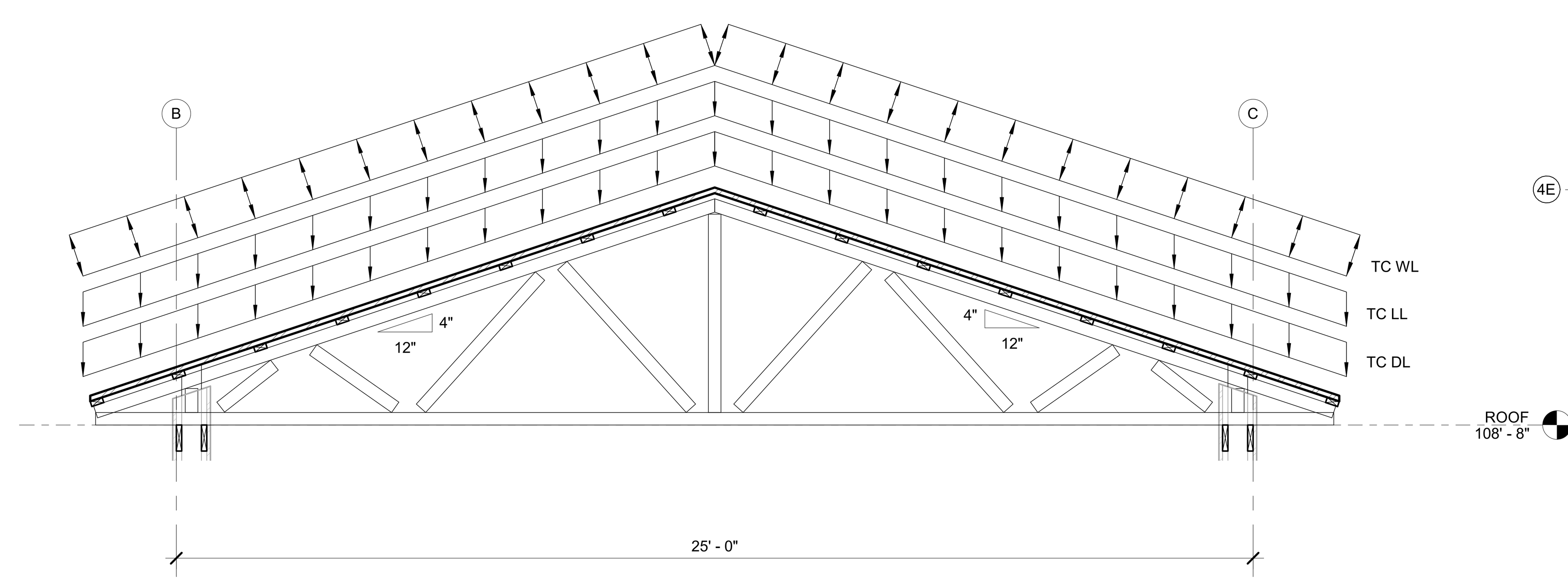
SCHEDULE OF BUILDING DESIGN LOADS

LOCATION	FLOOR	FLOOR AREA	FLOOR CONSTRUCTION	SUPERIMPOSED DEAD LOAD (psf)	PART'N LOAD (psf)	LIVE LOAD (psf)	REMARKS
MAIN BUILDING	MAIN LEVEL	LOBBY	5" SLAB-ON-GRADE	15	-	100	
		PUBLIC AREAS & CORRIDORS	"	15	-	100	
		OFFICE	"	15	20	50	
		STORAGE	"	15	-	125	
		CLASSROOM	"	15	20	40	
		MECHANICAL	"	15	-	125	MECHANICAL UNIT WEIGHTS
	ROOF	TYPICAL	SEE TRUSS LOADING	SEE TRUSS LOADING	-	20	SNOW DRIFT

NOTES:
1. DURING CONSTRUCTION ALL CONSTRUCTION LOADS ON ANY AREA OF THE FLOOR SHALL NOT EXCEED THE LOADS SHOWN IN THE TABLE.
2. 5" SLAB-ON-GRADE = 63 PSF
3. SUPERIMPOSED DEAD LOADS NOTED ABOVE DO NOT INCLUDE SELF WEIGHT OF WOOD TRUSS FRAMING.



1 TRUSS ELEVATION - TYPE T1
SCALE: 3/8" = 1'-0"



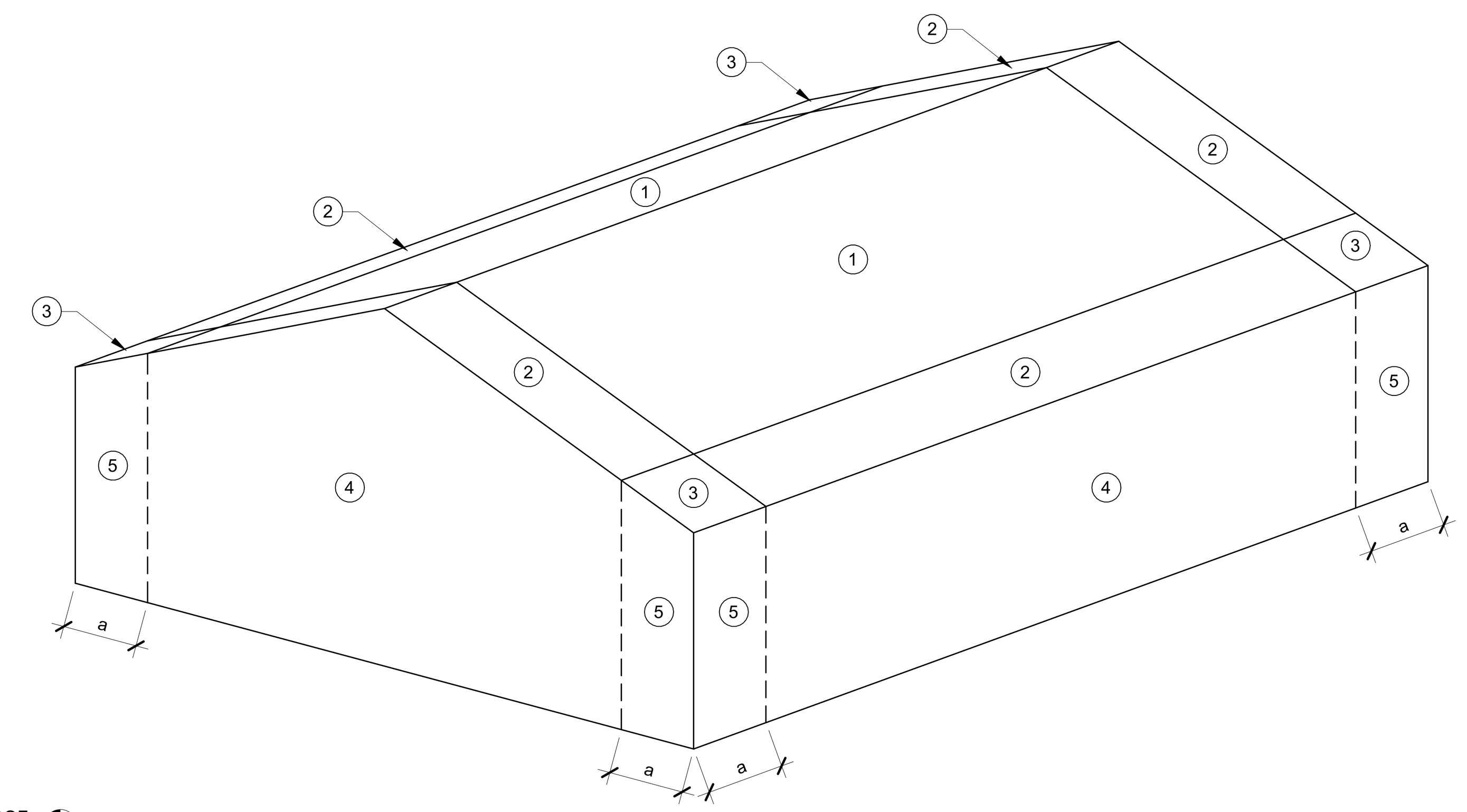
2 TRUSS ELEVATION - TYPE T2
SCALE: 3/8" = 1'-0"

TRUSS LOADING SCHEDULE

TRUSS DESIGNATION	BOT. CHORD DL *	BOT. CHORD LL	TOP CHORD DL *	TOP CHORD RLL	TOP CHORD SL	TOP CHORD WL (+/-)	REMARKS
T1	8 PSF	--	10 PSF	20 PSF	20 PSF	**	--
T2	8 PSF	--	10 PSF	20 PSF	20 PSF	**	--
T3	8 PSF	--	10 PSF	20 PSF	20 PSF	**	GIRDER TRUSS
T4	8 PSF	--	10 PSF	20 PSF	20 PSF	**	GIRDER TRUSS

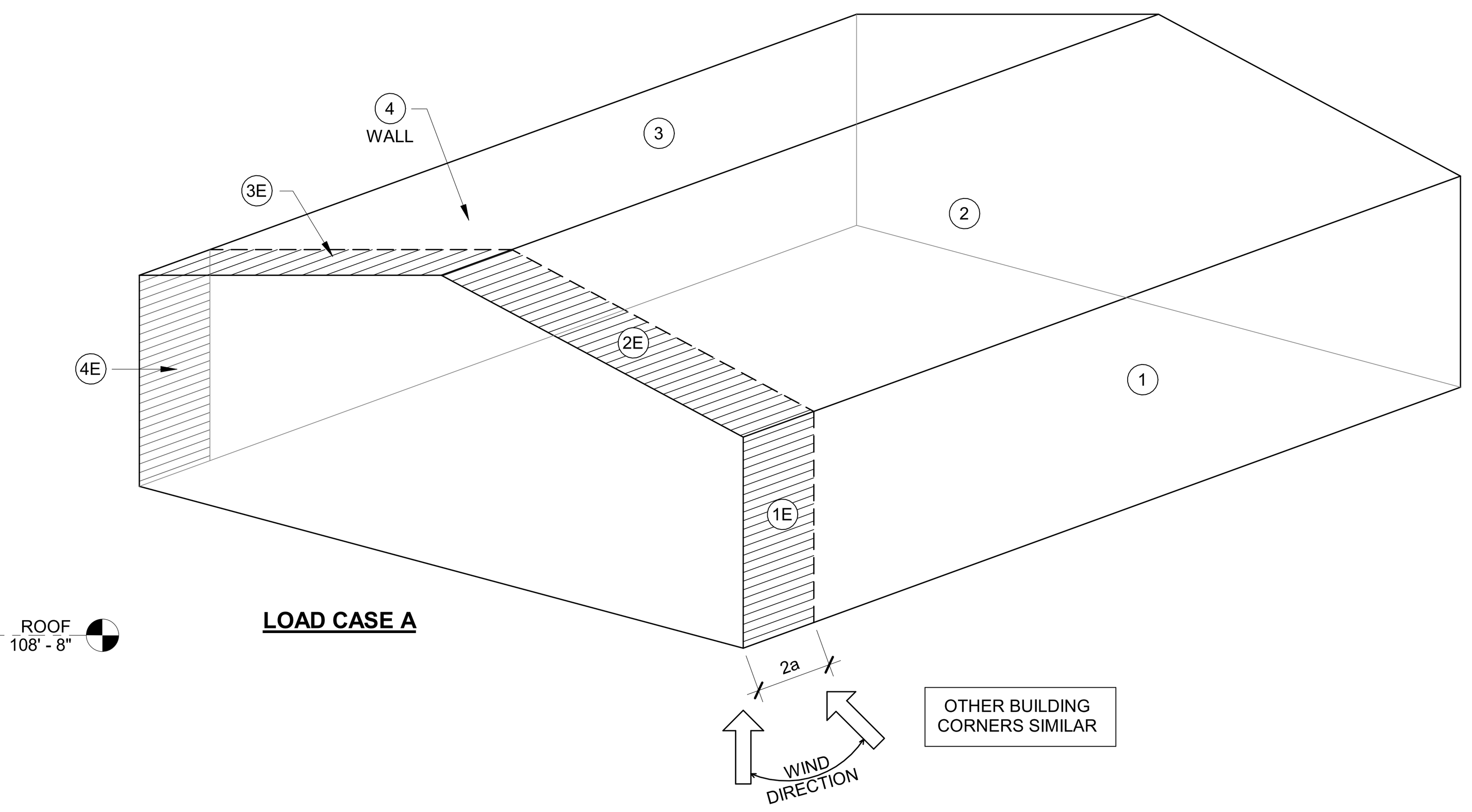
NOTES:

1. * - INDICATES TRUSS SELFWEIGHT **NOT** INCLUDED IN APPLIED DEAD LOAD. TRUSS SELFWEIGTH SHALL BE ACCOUNTED FOR BY TRUSS DESIGNER.
2. ** - INDICATES APPLIED COMPONENT WIND LOAD, SEE WIND LOAD DIAGRAMS AND SCHEDULE FOR ADDITIONAL INFORMATION.
3. SEE PLAN FOR TRUSS SPACING.

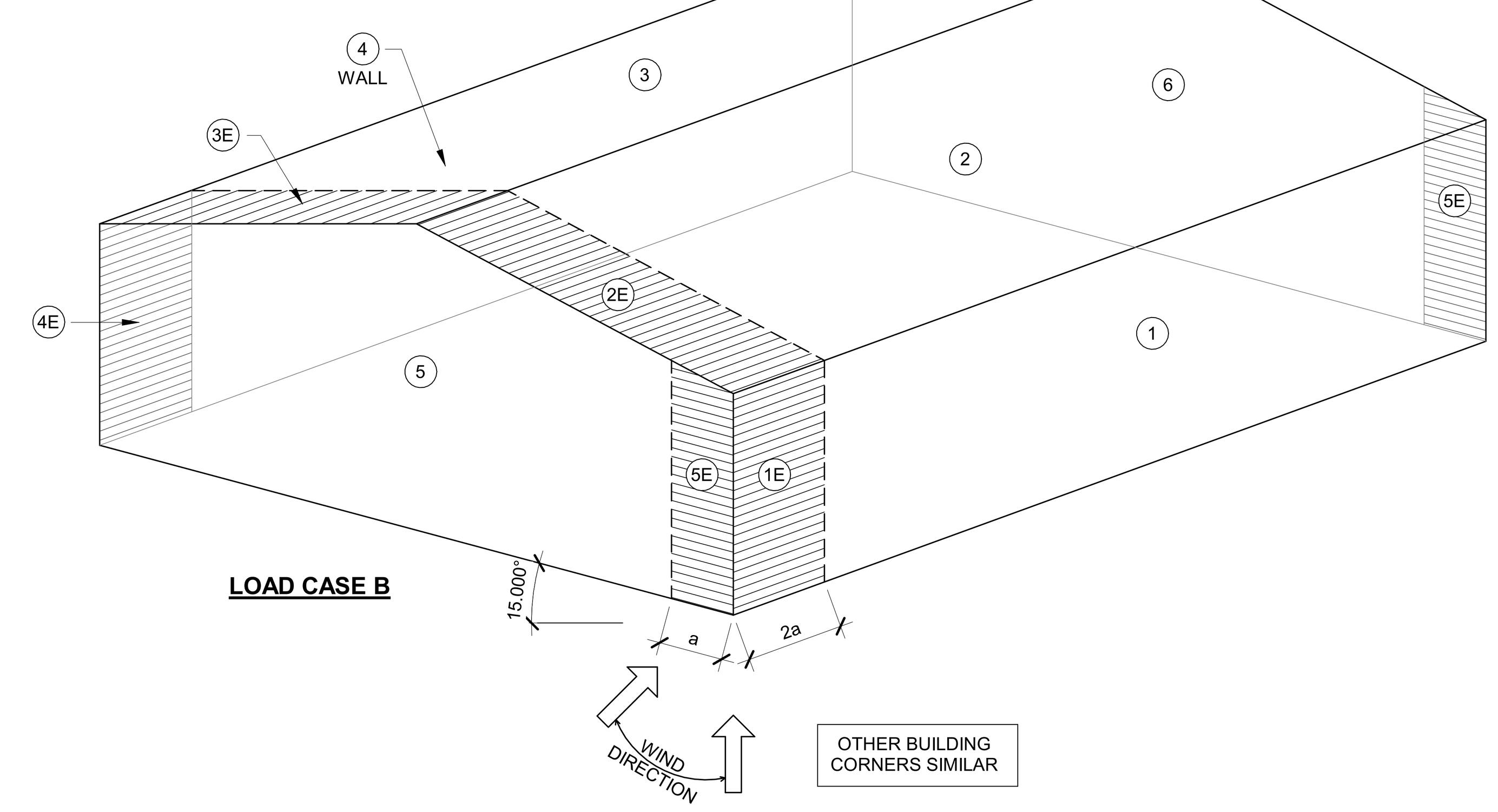


WALL AND ROOF COMPONENT WIND LOADS

ZONE		NET (+)	NET (-)	REMARKS
ROOF	ZONE 1	15.5 PSF	-25.75 PSF	
	ZONE 2	15.5 PSF	-58.25 PSF	
	ZONE 3	15.5 PSF	-86.00 PSF	
WALL	ZONE 4	27.25 PSF	-29.75 PSF	
	ZONE 5	27.25 PSF	-35.25 PSF	



LOAD CASE A



LOAD CASE B

MWFRS WIND LOAD SCHEDULE

ZONE	LOAD CASE A		LOAD CASE B	
	NET (+GCpi)	NET (-GCpi)	NET (+GCpi)	NET (-GCpi)
ZONE 1	8.22 PSF	17.02 PSF	-15.39 PSF	-6.60 PSF
ZONE 2	-21.25 PSF	-12.46 PSF	-21.25 PSF	-12.46 PSF
ZONE 3	-15.84 PSF	-7.05 PSF	-13.44 PSF	-4.64 PSF
ZONE 4	-14.55 PSF	-5.75 PSF	-15.39 PSF	-6.60 PSF
ZONE 5	--	--	5.37 PSF	14.17 PSF
ZONE 6	--	--	-11.48 PSF	-2.69 PSF
ZONE 1E	14.67 PSF	23.46 PSF	-16.12 PSF	-7.33 PSF
ZONE 2E	-30.54 PSF	-21.74 PSF	-30.54 PSF	-21.74 PSF
ZONE 3E	-20.85 PSF	-12.05 PSF	-17.34 PSF	-8.55 PSF
ZONE 4E	-19.50 PSF	-10.71 PSF	-16.12 PSF	-7.33 PSF
ZONE 5E	--	--	10.50 PSF	-19.30 PSF
ZONE 6E	--	--	-14.90 PSF	-6.11 PSF

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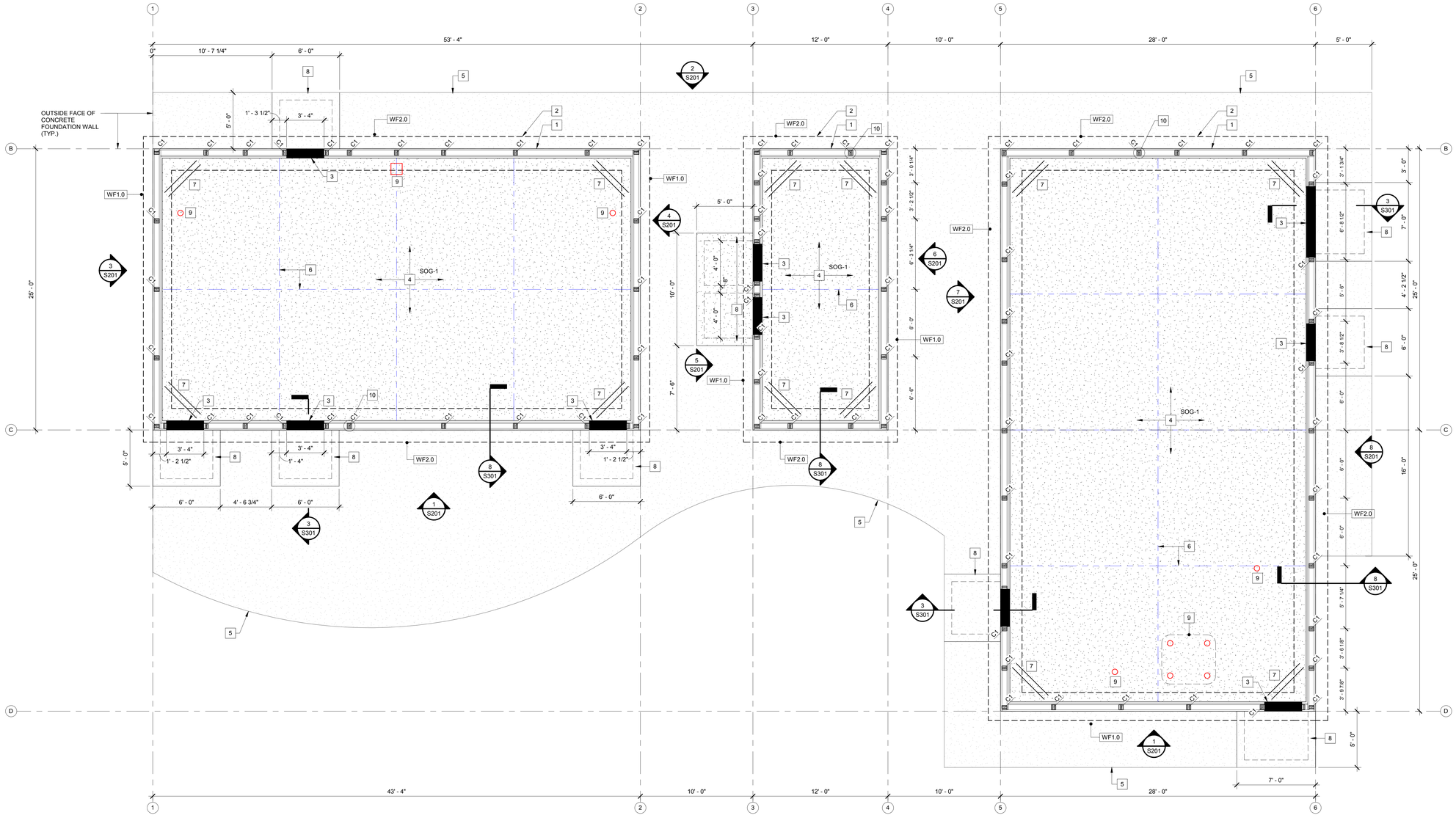
STRUCTURAL NOTES

DWG. NO.
S002



1 MAIN LEVEL FOUNDATION PLAN

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

0 4' 8' 16'

KEYED NOTES STRUCTURAL FOUNDATION PLAN

X

1. CAST IN PLACE CONCRETE WALL FOOTING
2. CAST-IN-PLACE CONCRETE FOUNDATION WALL.
3. CONCRETE SLAB TRANSITION AT ENTRANCE.
4. NEW 5" THICK CONCRETE SLAB-ON-GRADE CONSTRUCTION, SEE GENERAL NOTES AND DETAILS FOR ADDITIONAL INFORMATION.
5. 5" THICK EXTERIOR CONCRETE SLAB-ON-GRADE CONSTRUCTION, SEE SITE PLAN FOR ADDITIONAL INFORMATION.
6. SLAB-ON-GRADE CONTROL / CONSTRUCTION JOINTS. SEE DETAILS FOR ADDITIONAL INFORMATION.
7. (2) #4 REINFORCING BARS AT CORNER / REENTRANT CORNER. PLACE BARS AT MID-DEPTH OF SLAB-ON-GRADE.
8. CAST-IN-PLACE CONCRETE STOOP SLAB AND FOUNDATION WALL.
9. FLOOR DRAIN LOCATION, SEE PLUMBING AND ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION (SLOPE, ELEVATION).
10. LAMINATED WOOD COLUMN. FINAL SIZE TO BE PROVIDED BY FRAME BUILDING SUPPLIER (DELEGATED DESIGN).

GENERAL NOTES

1. TOP OF CONCRETE SLAB-ON-GRADE = EL. = 100'-0"
2. SOG-1 - INDICATES 5" THICK CAST-IN-PLACE CONCRETE SLAB-ON-GRADE WITH (1) LAYER OF 6x6 W2.1xW2.1 W.W.F. LOCATED AT MID-DEPTH OF THE SLAB. SEE DETAILS FOR VAPOR BARRIER AND COMPACTED FILL REQUIREMENTS.
3. WFX.0 - INDICATES CAST-IN-PLACE CONCRETE WALL FOOTING, SEE SCHEDULE AND DETAILS FOR ADDITIONAL INFORMATION.
4. C1 - INDICATES LAMINATED 2x WOOD COLUMN. FINAL SIZE ADN LOCATION TO BE PROVIDED BY WOOD FRAME BUILDING SUPPLIER (DELEGATED DESIGN).
5. SLOPE INTERIOR SLAB-ON-GRADE CONSTRUCTION TO FLOOR DRAINS / FLOOR SINKS AS INDICATED ON ARCHITECTUTRAL DRAWINGS.
6. SLOPE EXTERIOR SLAB-ON-GRADE CONSTRUCTION AS INDICATED ON SITE PLAN.

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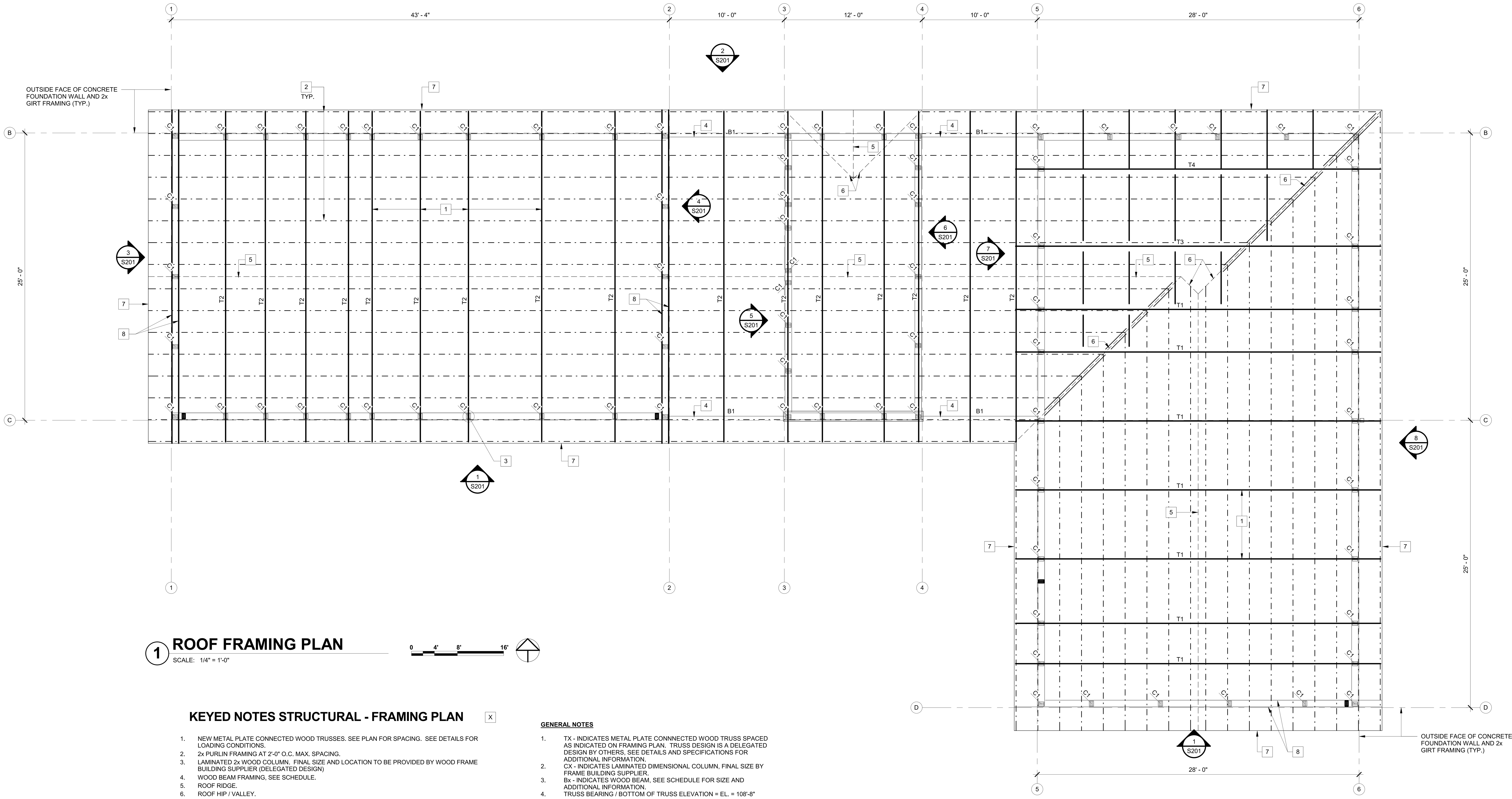
FOUNDATION PLAN

DWG. NO.
S101



1 ROOF FRAMING PLAN

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

0 4' 8' 16'

KEYED NOTES STRUCTURAL - FRAMING PLAN

X

1. NEW METAL PLATE CONNECTED WOOD TRUSSES. SEE PLAN FOR SPACING. SEE DETAILS FOR LOADING CONDITIONS.
2. 2x PURLIN FRAMING AT 2'-0" O.C. MAX. SPACING.
3. LAMINATED 2x WOOD COLUMN. FINAL SIZE AND LOCATION TO BE PROVIDED BY WOOD FRAME BUILDING SUPPLIER (DELEGATED DESIGN)
4. WOOD BEAM FRAMING, SEE SCHEDULE.
5. ROOF RIDGE.
6. ROOF HIP / VALLEY.
7. EDGE OF STANDING SEAM ROOF.
8. 2x RAKE FRAMING.

GENERAL NOTES

1. TX - INDICATES METAL PLATE CONNNECTED WOOD TRUSS SPACED AS INDICATED ON FRAMING PLAN. TRUSS DESIGN IS A DELEGATED DESIGN BY OTHERS, SEE DETAILS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. CX - INDICATES LAMINATED DIMENSIONAL COLUMN, FINAL SIZE BY FRAME BUILDING SUPPLIER.
3. Bx - INDICATES WOOD BEAM, SEE SCHEDULE FOR SIZE AND ADDITIONAL INFORMATION.
4. TRUSS BEARING / BOTTOM OF TRUSS ELEVATION = EL. = 108'-8"

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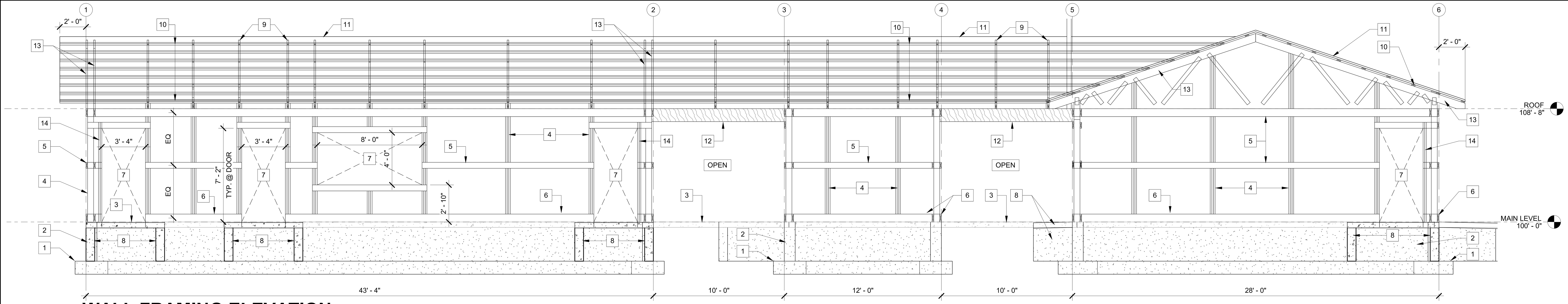
ROOF FRAMING PLAN

DWG. NO.

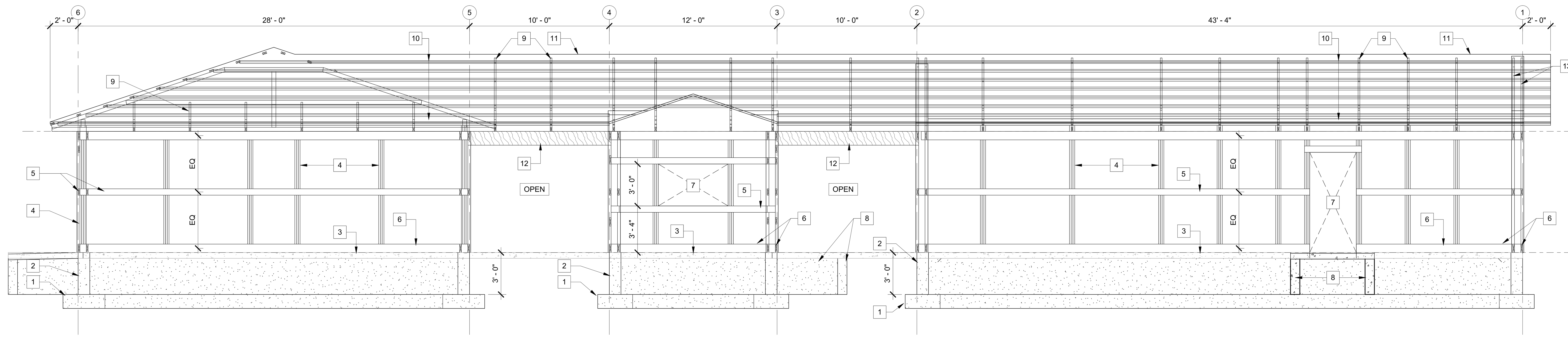
S102



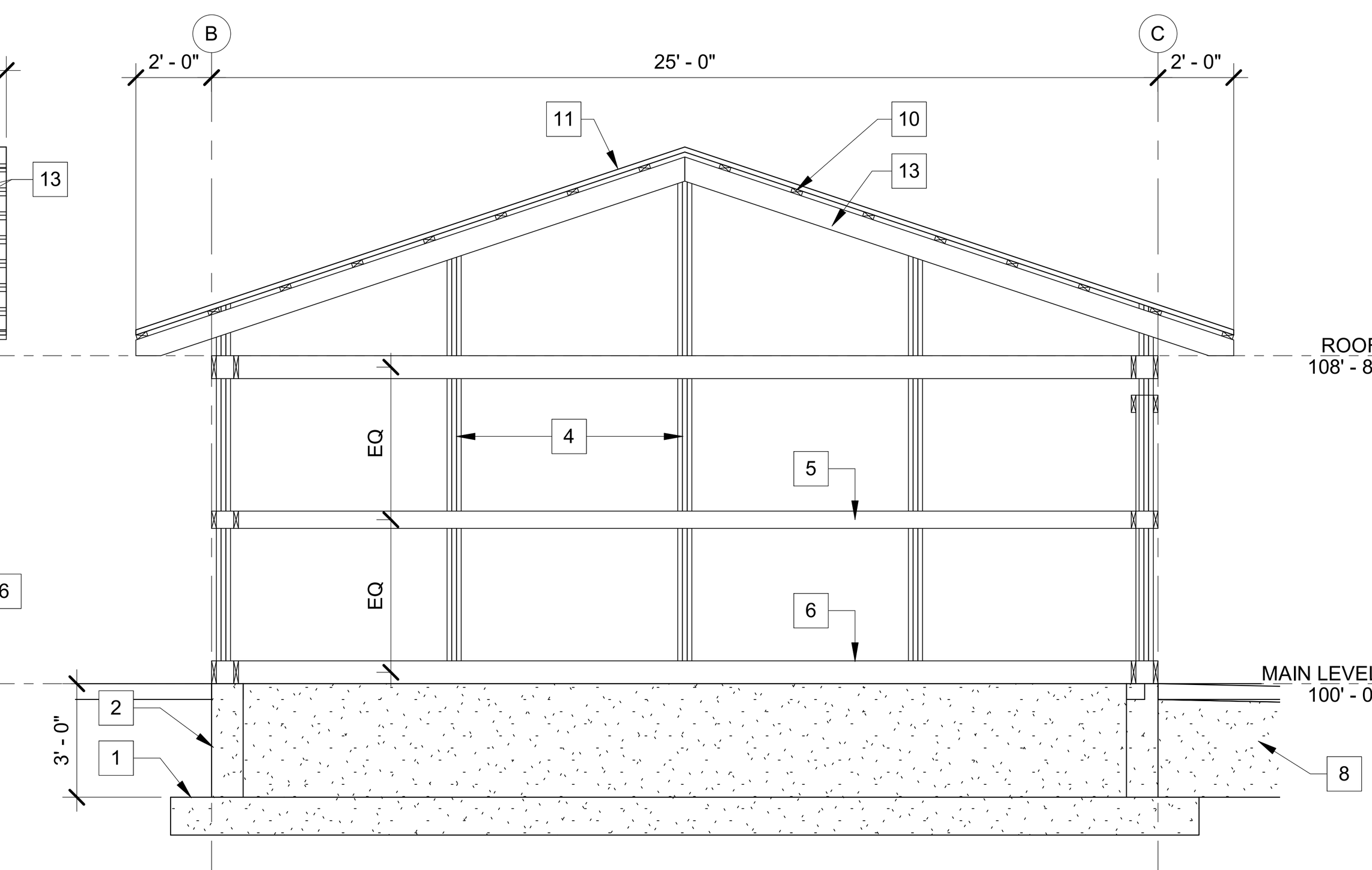
1 WALL FRAMING ELEVATION
SCALE: 1/4" = 1'-0"

KEYED NOTES STRUCTURAL - ELEVATIONS

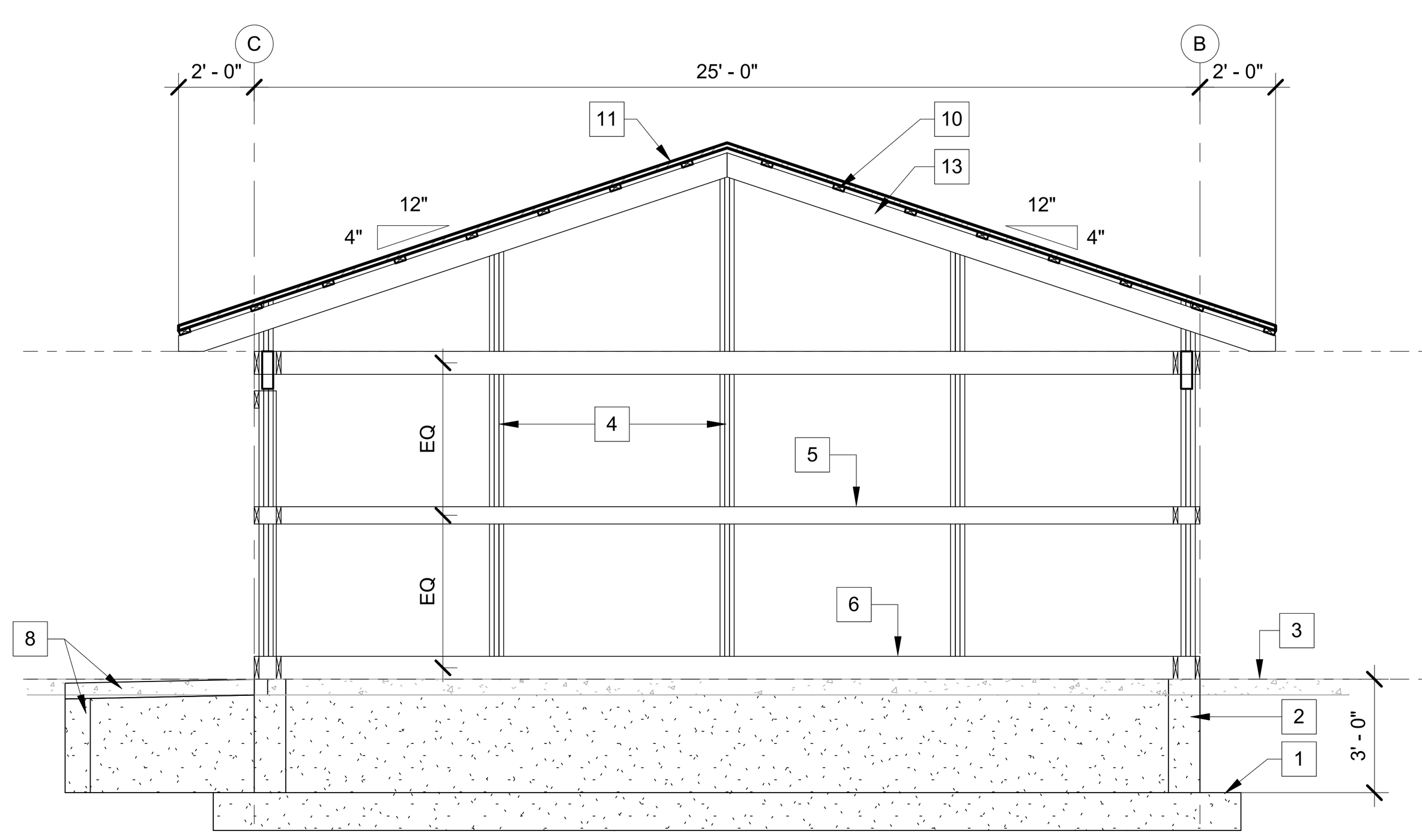
1. CAST-IN-PLACE CONCRETE FOOTING.
2. CAST-IN-PLACE CONCRETE FOUNDATION WALL.
3. CONCRETE SLAB-ON-GRADE.
4. NEW BUILT UP WOOD COLUMN, SEE PLAN AND SCHEDULE FOR SIZE AND SPACING.
5. NEW 2X WALL GIRT, BY WOOD FRAME BUILDING SUPPLIER.
6. 2X8 TREATED WOOD SILL (NS & FS)
7. DOOR OR WINDOW OPENING. SEE ARCHITECTURAL DRAWINGS.
8. CAST-IN-PLACE CONCRETE STOOP SLAB AND FOUNDATION WALLS.
9. PREFABRICATED METAL PLATE CONNECTED WOOD TRUSSES, SEE PLAN FOR SIZE. DESIGN OF TRUSSES SHALL BE A DELEGATED DESIGN BY FRAME BUILDING SUPPLIER
10. 2X ROOF PURLIN FRAMING, SEE PLAN FOR ADDITIONAL INFORMATION.
11. NEW PRE-FINISHED STANDING SEAM METAL ROOFING, SEE ARCHITECHTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
12. BUILT UP DIMENSIONAL WOOD OR PSL WOOD BEAM, SEE PLAN AND SCHEUDLE.
13. 2x WOOD RAKE FRAMING.
14. KING STUD FRAMING AT DOOR.



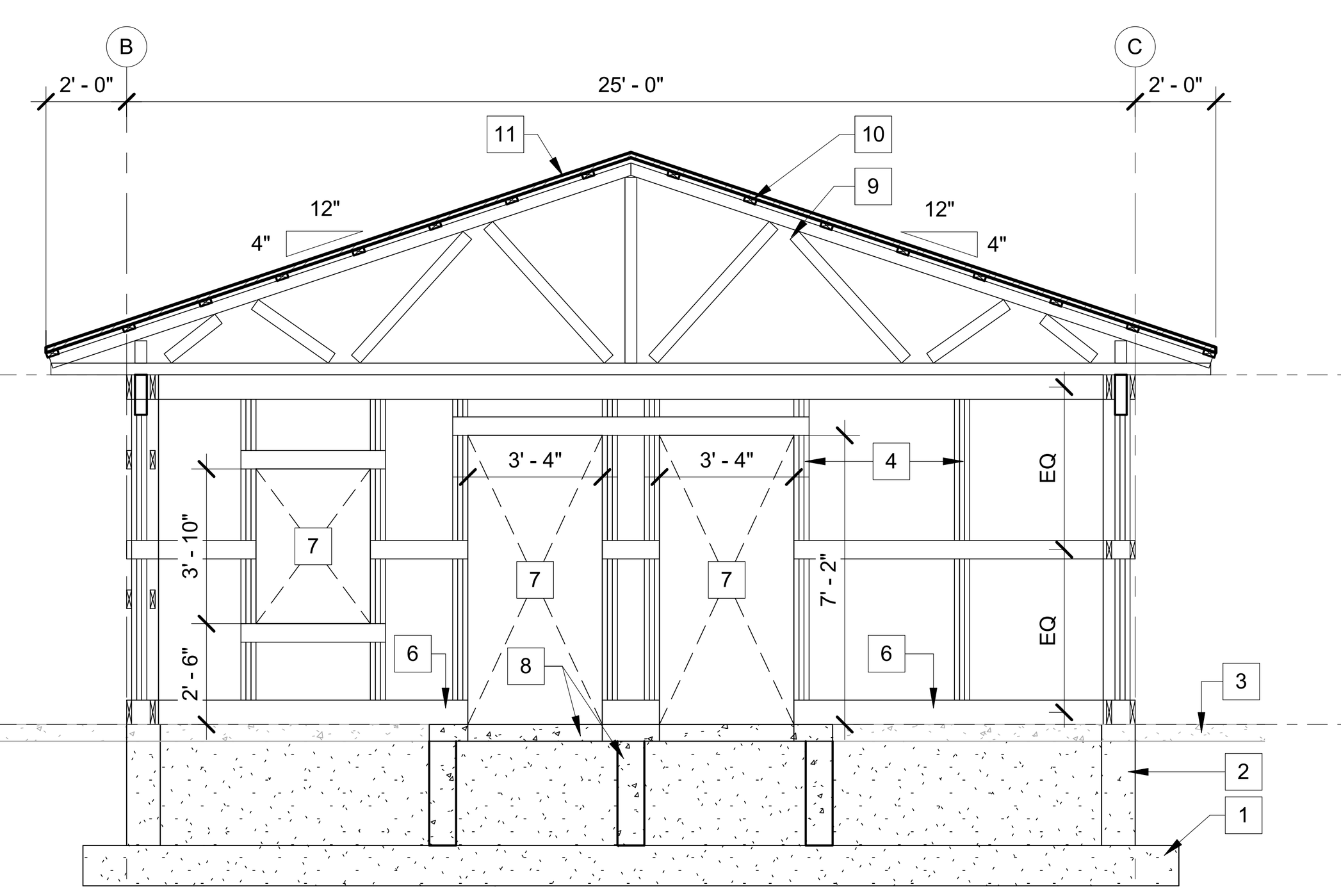
2 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



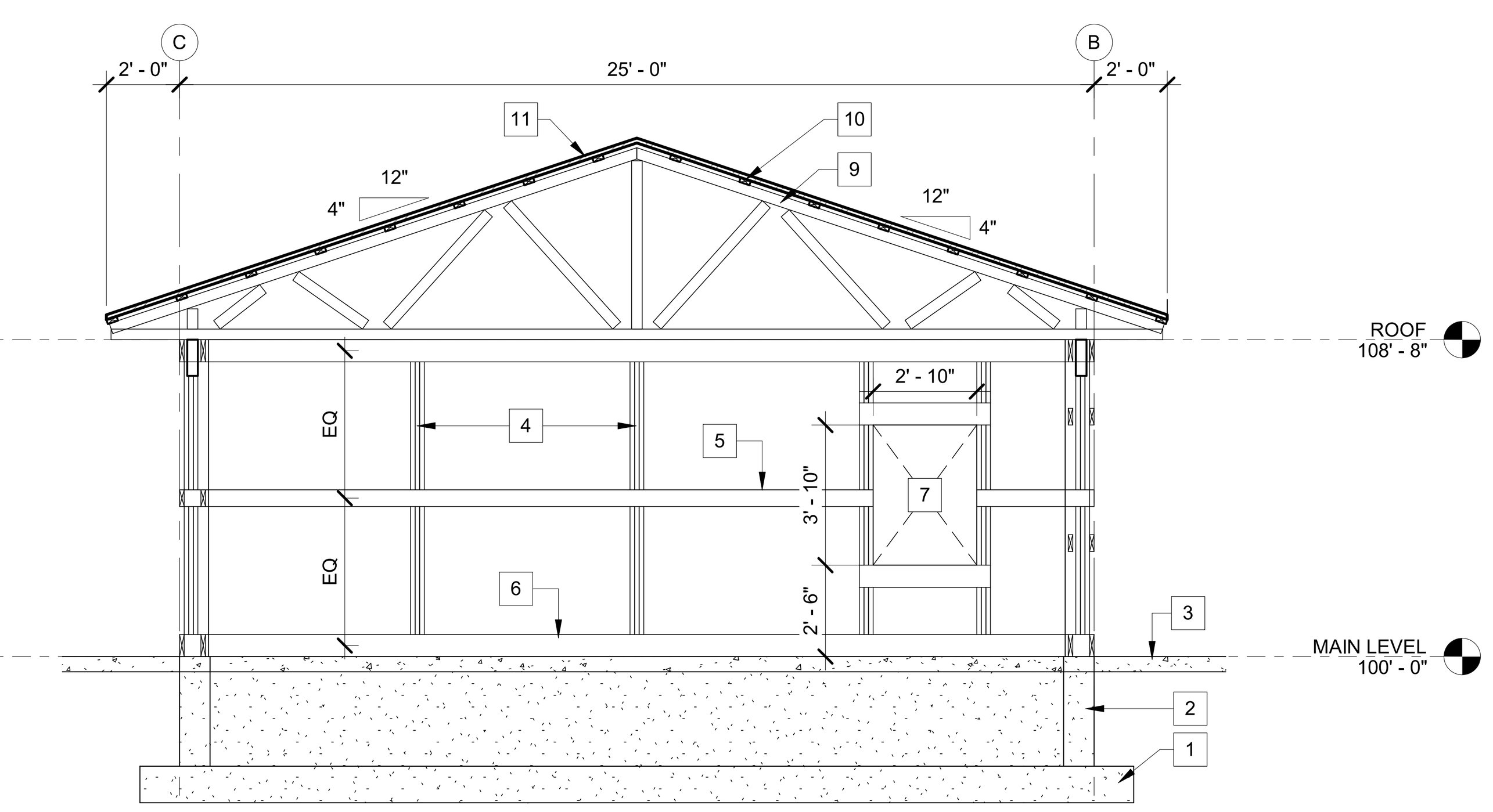
3 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



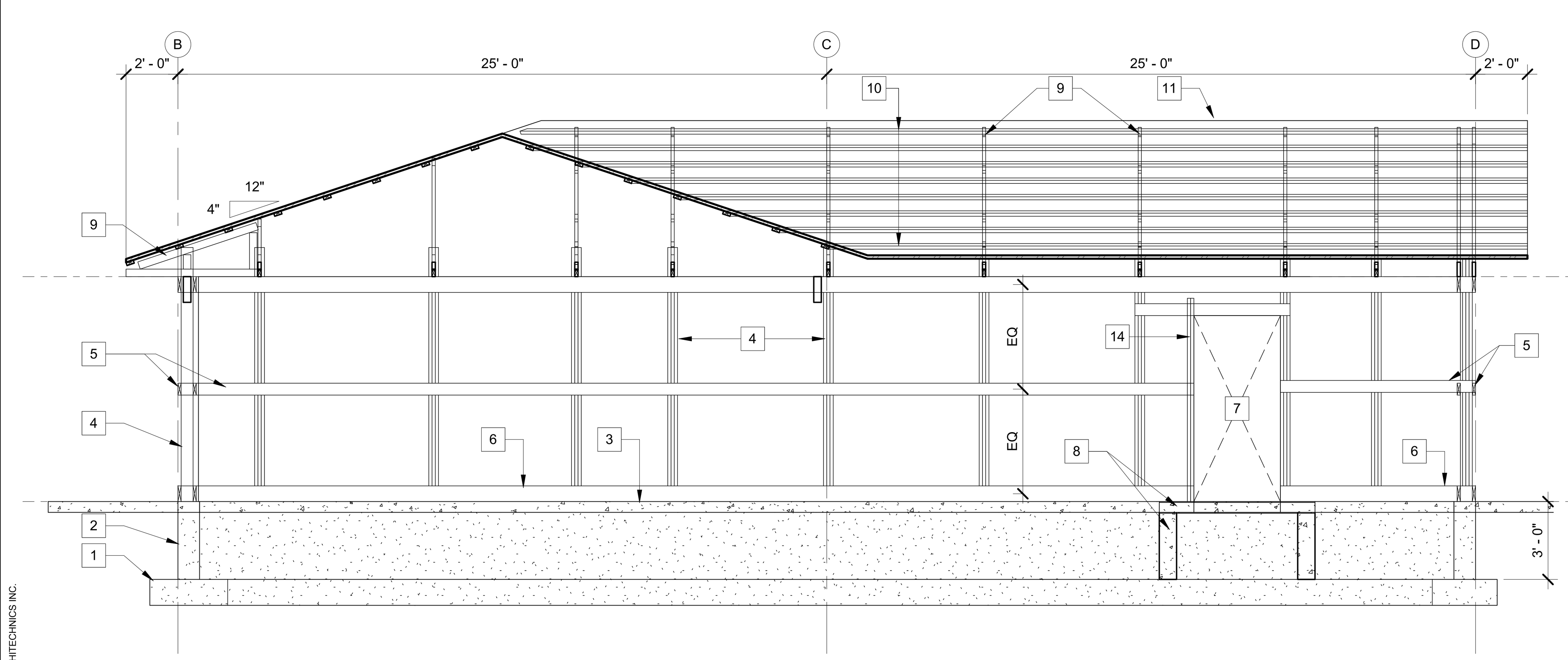
4 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



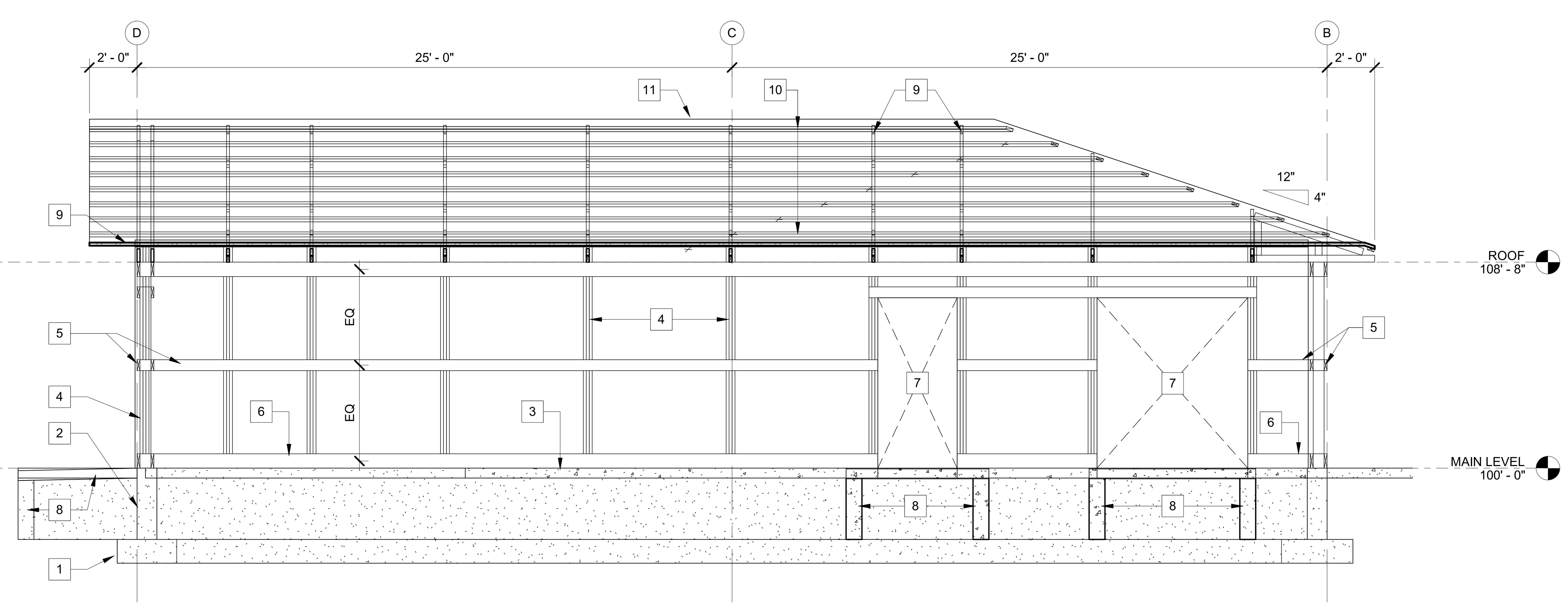
5 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



6 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



7 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"



8 FRAMING ELEVATION
SCALE: 1/4" = 1'-0"

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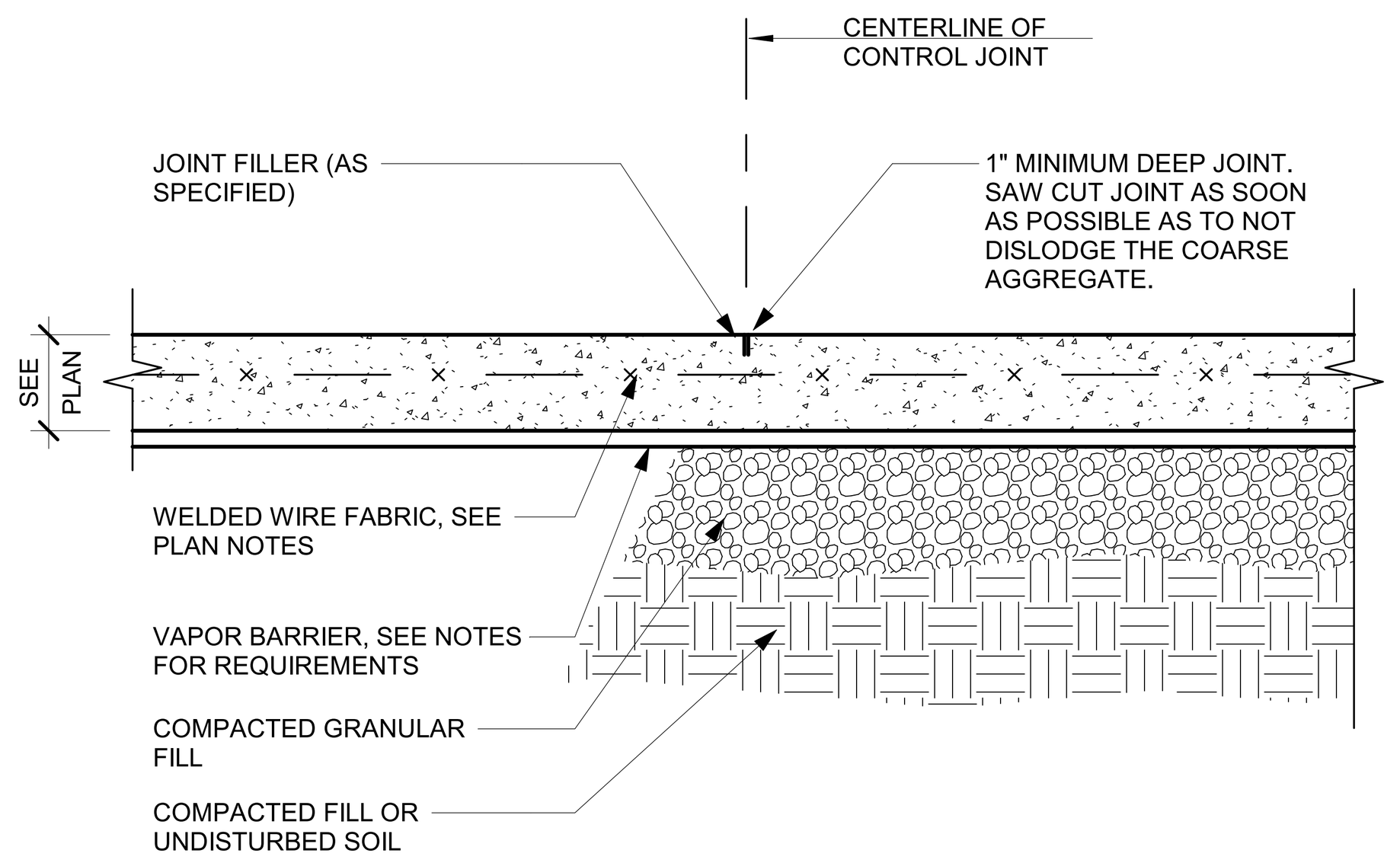
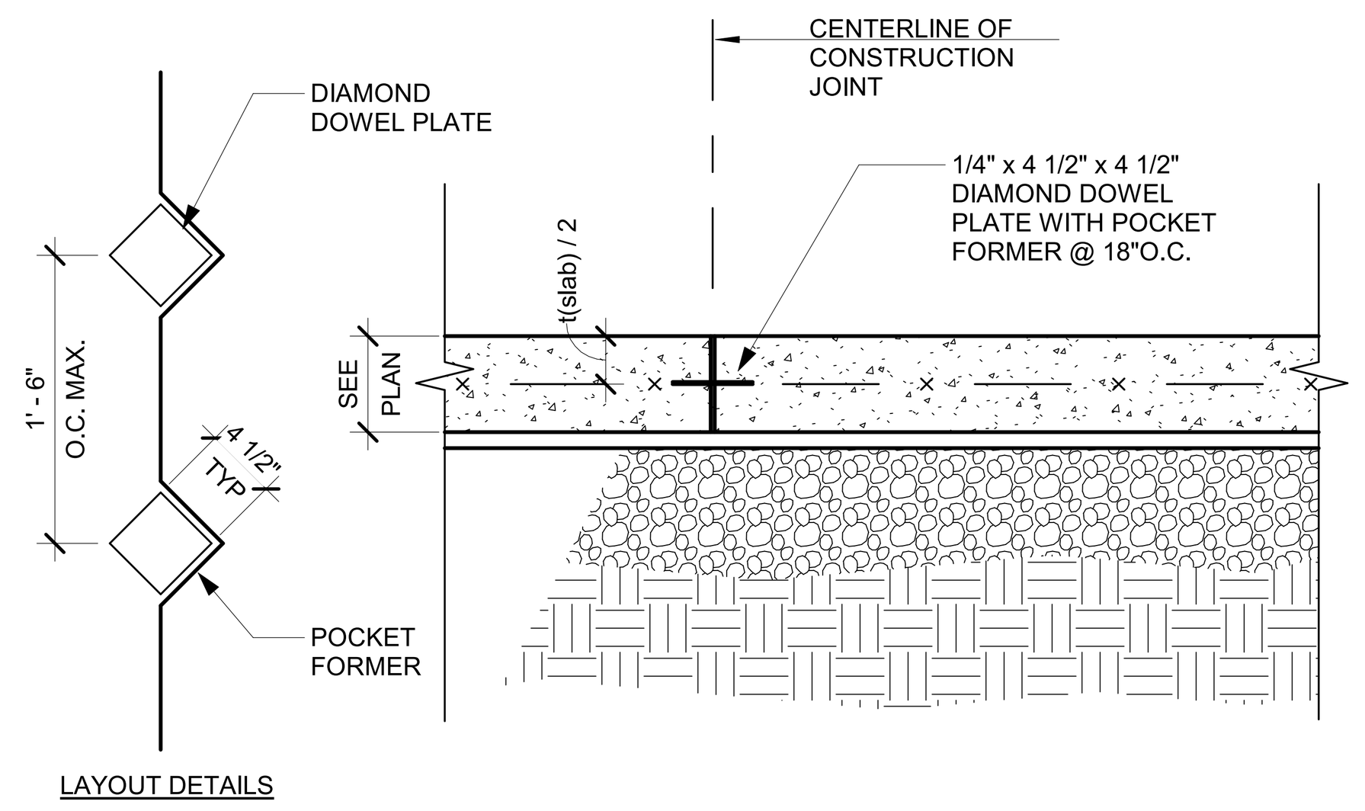
STRUCTURAL ELEVATIONS

DWG. NO.
S201


CENTERLINE OF CONTROL JOINT
JOINT FILLER (AS SPECIFIED)
1" MINIMUM DEEP JOINT. SAW CUT JOINT AS SOON AS POSSIBLE AS TO NOT DISLODGE THE COARSE AGGREGATE.
SEE PLAN
WELDED WIRE FABRIC, SEE PLAN NOTES
VAPOR BARRIER, SEE NOTES FOR REQUIREMENTS
COMPACTED GRANULAR FILL
COMPACTED FILL OR UNDISTURBED SOIL

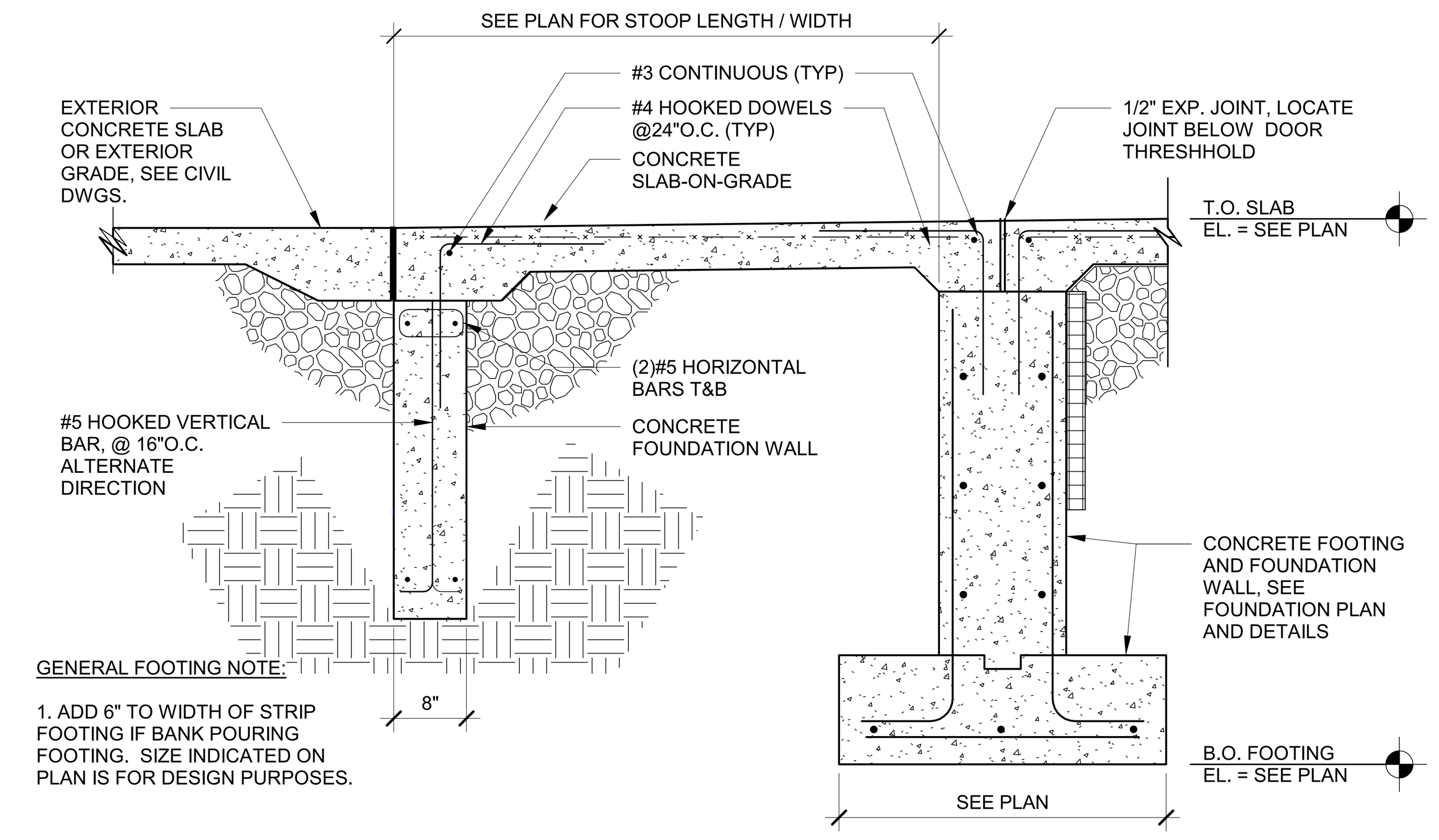
1 TYPICAL SLAB-ON-GRADE DETAIL

SCALE: 1" = 1'-0"



2 TYPICAL SLAB-ON-GRADE DETAIL

SCALE: 1" = 1'-0"


SEE PLAN FOR STOOP LENGTH / WIDTH
EXTERIOR CONCRETE SLAB OR EXTERIOR GRADE, SEE CIVIL DWGS.
#3 CONTINUOUS (TYP)
#4 HOOKED DOWELS @24"O.C. (TYP)
CONCRETE SLAB-ON-GRADE
1/2" EXP. JOINT, LOCATE JOINT BELOW DOOR THRESHHOLD
T.O. SLAB EL. = SEE PLAN
(2)#5 HORIZONTAL BARS T&B
CONCRETE FOUNDATION WALL
#5 HOOKED VERTICAL BAR, @ 16"O.C. ALTERNATE DIRECTION
CONCRETE FOOTING AND FOUNDATION WALL, SEE FOUNDATION PLAN AND DETAILS
GENERAL FOOTING NOTE:
1. ADD 6" TO WIDTH OF STRIP FOOTING IF BANK POURING FOOTING. SIZE INDICATED ON PLAN IS FOR DESIGN PURPOSES.
8"
B.O. FOOTING EL. = SEE PLAN
SEE PLAN

3 CONCRETE STOOP FOUNDATION

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

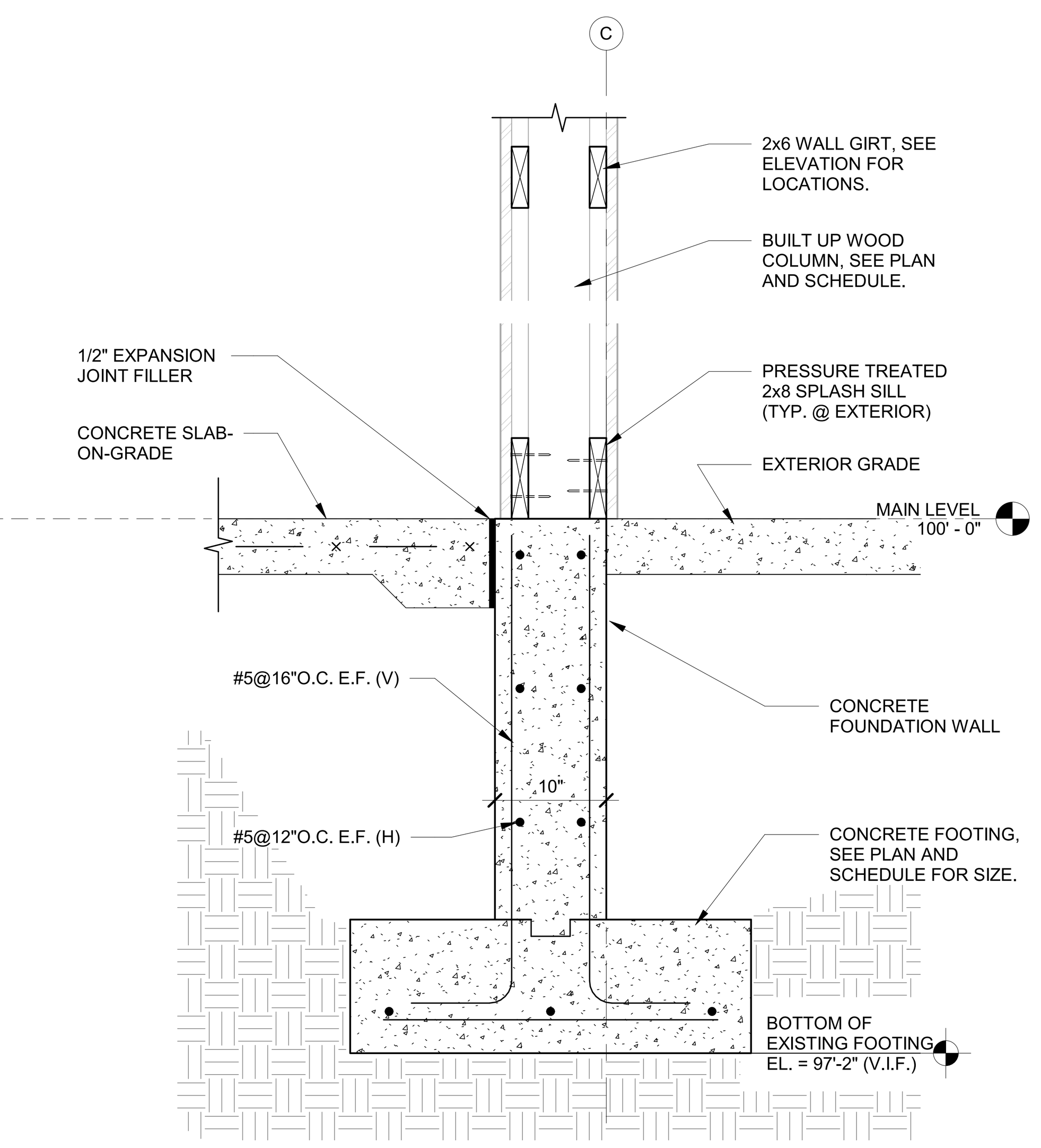
FOOTING SCHEDULE					ISOLATED FTGS. $f_{bearing}$= 1,500 psf WALL FTGS. $f_{bearing}$= 1,200 psf	
FOOTING MARK	WIDTH - W (FT)	LENGTH - L (FT)	THICKNESS (FT)	BOTTOM REINFORCING	TOP REINFORCING	
WF1.0	2'-6"	-	1'-0"	(4)#5 CON'T (LONG.) #5 @ 12"O.C. (TRANS.)	-	
WF2.0	3'-0"	-	1'-0"	(4)#6 CON'T (LONG.) #6 @ 12"O.C. (TRANS.)	-	

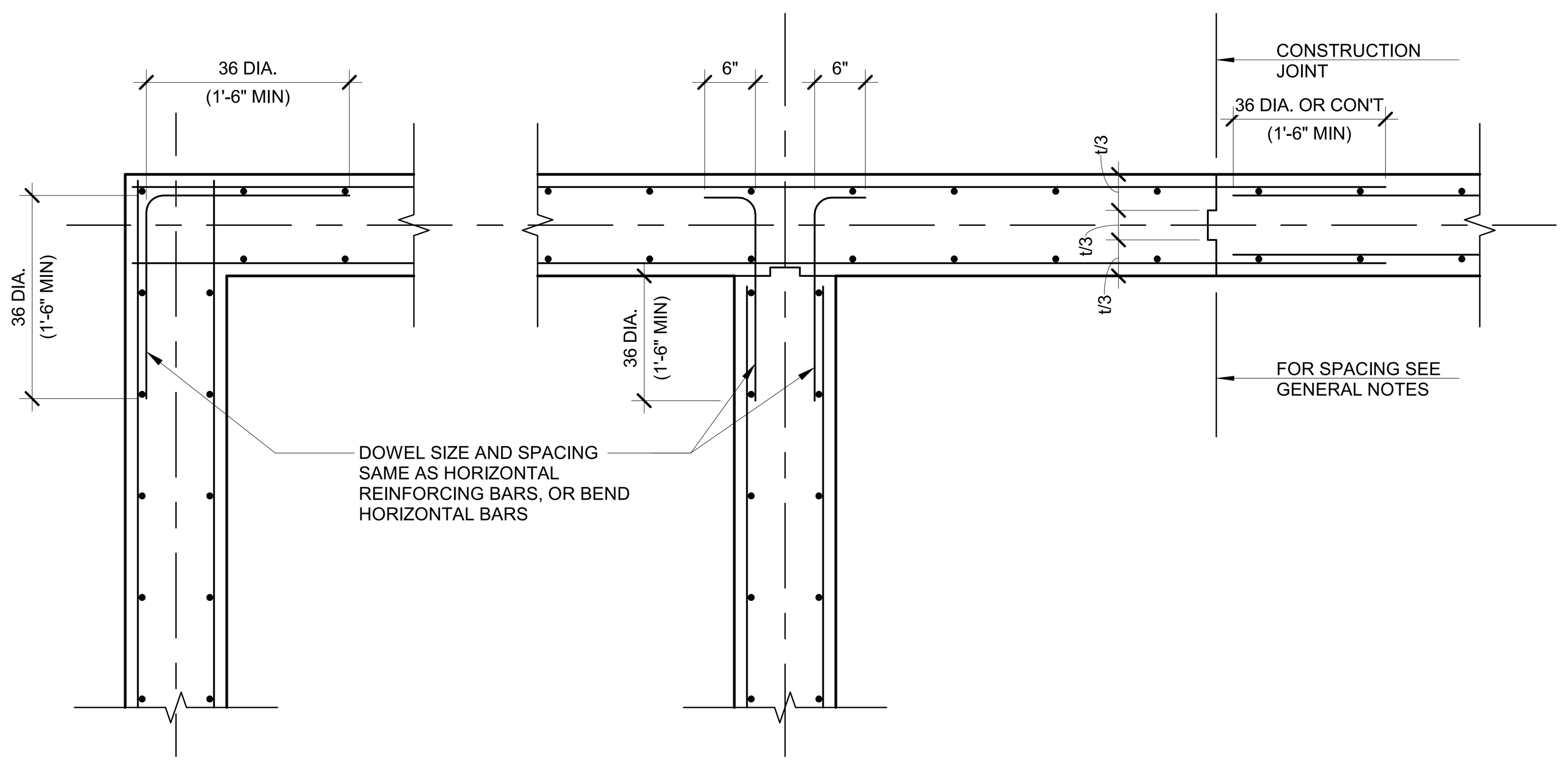
GENERAL FOOTING NOTES:

1. ADD 6" TO WIDTH AND LENGTH OF FOOTING IF BANK POURING FOOTING. SIZE INDICATED ABOVE IS FOR DESIGN PURPOSES.
2. BOTTOM OF FOOTING ELEVATIONS NOTED ABOVE ARE UNLESS OTHERWISE NOTED ON FOUNDATION PLANS OR DETAILS.

4 FOOTING SCHEDULE

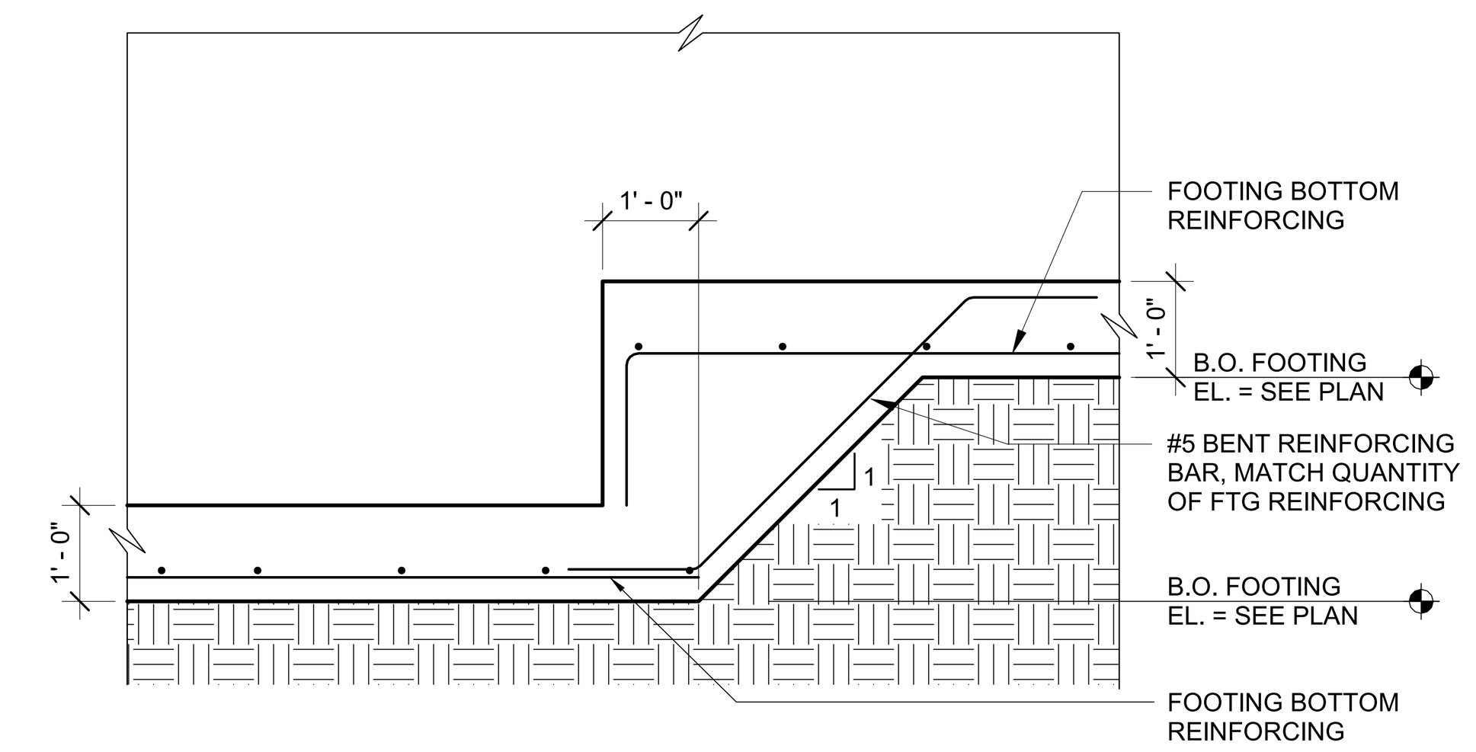
SCALE: 1" = 1'-0"


C
2x6 WALL GIRT, SEE ELEVATION FOR LOCATIONS.
BUILT UP WOOD COLUMN, SEE PLAN AND SCHEDULE.
1/2" EXPANSION JOINT FILLER
PRESSURE TREATED 2x8 SPLASH SILL (TYP. @ EXTERIOR)
CONCRETE SLAB-ON-GRADE
EXTERIOR GRADE
MAIN LEVEL 100' - 0"
#5@16"O.C. E.F. (V)
CONCRETE FOUNDATION WALL
10"
#5@12"O.C. E.F. (H)
CONCRETE FOOTING, SEE PLAN AND SCHEDULE FOR SIZE.
BOTTOM OF EXISTING FOOTING EL. = 97'-2" (V.I.F.)



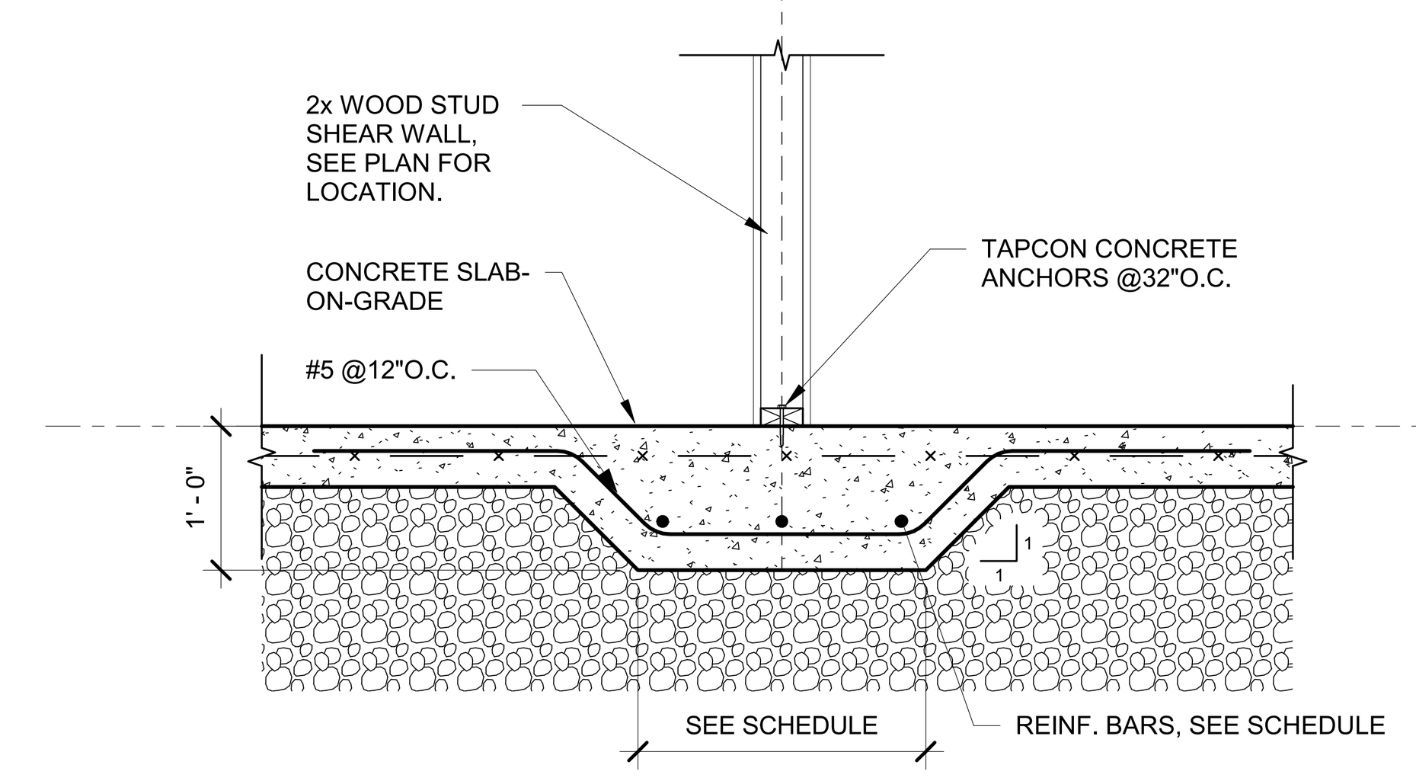
5 TYP. CONC. WALL CORNER, INTERSECTION AND CONSTRUCTION JOINT DETAILS

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



6 STEPPED FOOTING DETAIL

SCALE: 1/2" = 1'-0"



7 INTERIOR THICKENED SLAB DETAIL

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

8 TYPICAL FOUNDATION WALL DETAIL

SCALE: 1" = 1'-0"

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ISSUE DATE: **03/05/21**

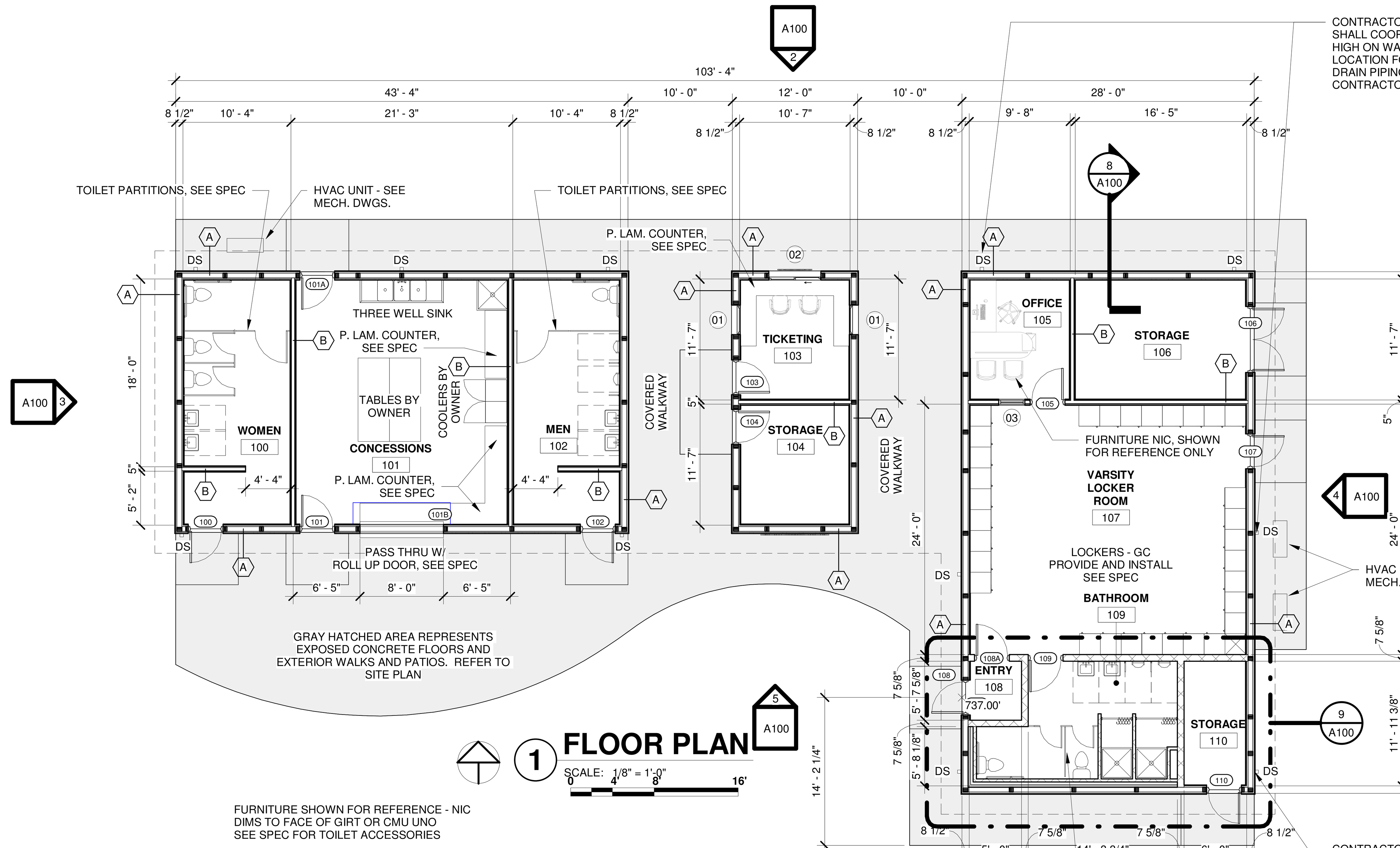
REVISIONS

NO.	Date	Description

PROJECT NUMBER: **6003B**

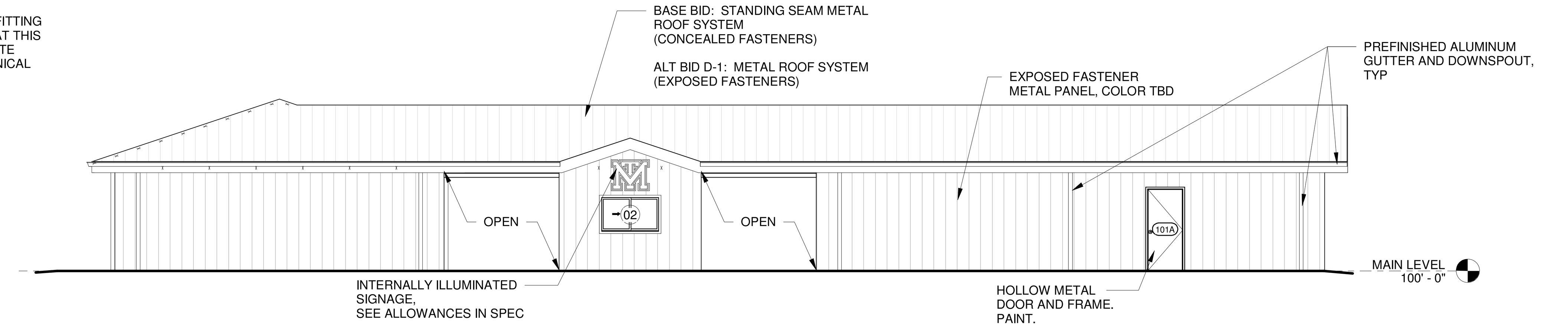
CONCRETE DETAILS

DWG. NO.
S301

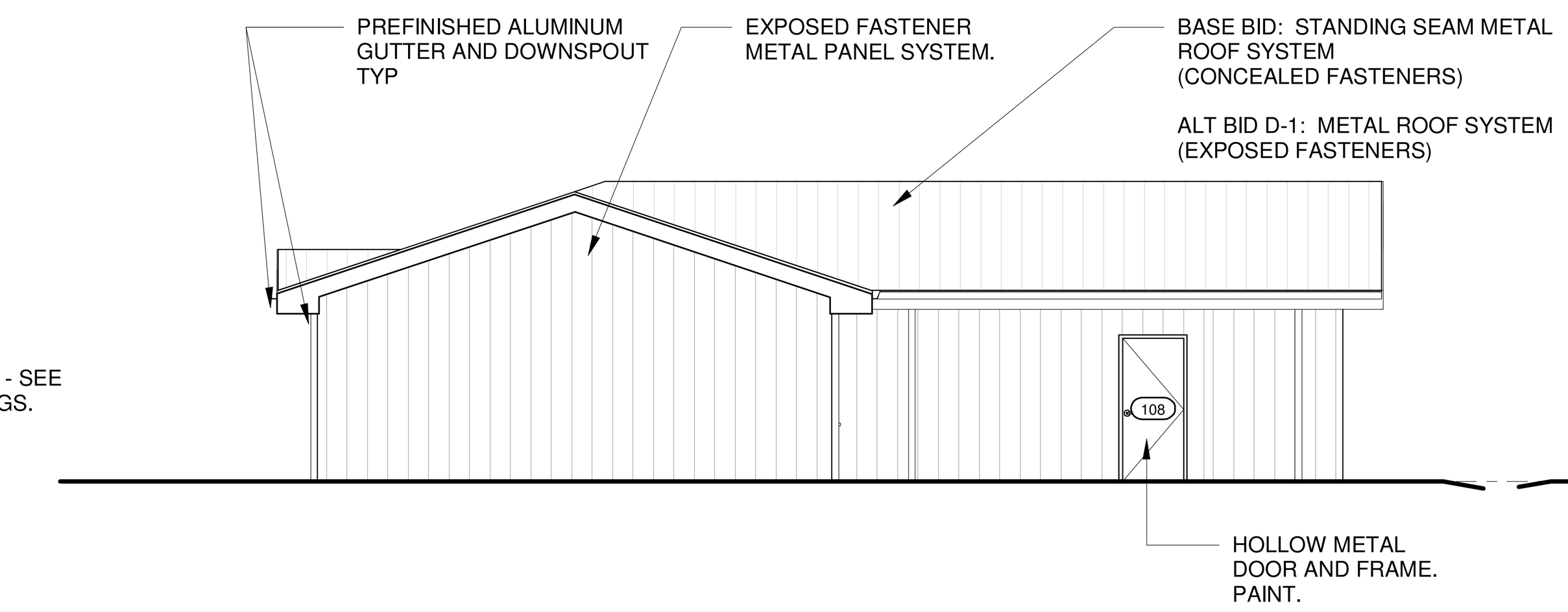


1 FLOOR PLAN
SCALE: 1/8" = 1'-0"

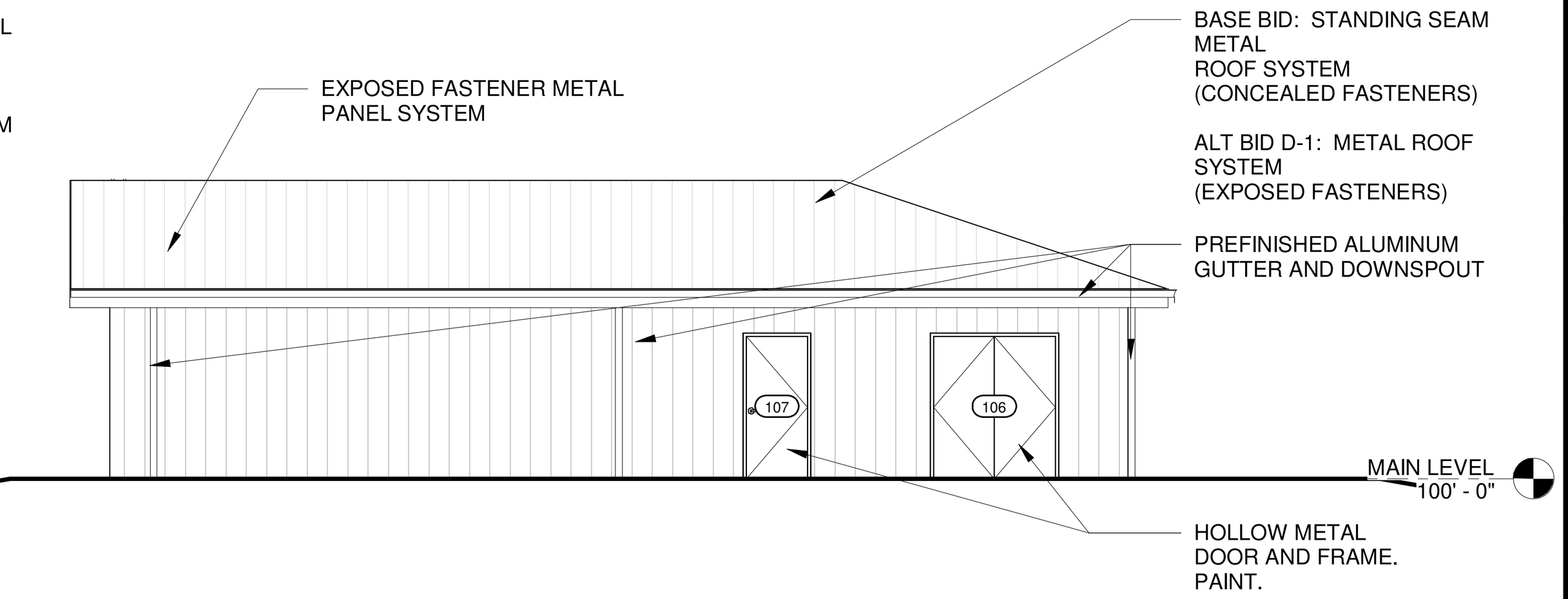
FURNITURE SHOWN FOR REFERENCE - NIC
DIMS TO FACE OF GIRT OR CMU UNO
SEE SPEC FOR TOILET ACCESSORIES



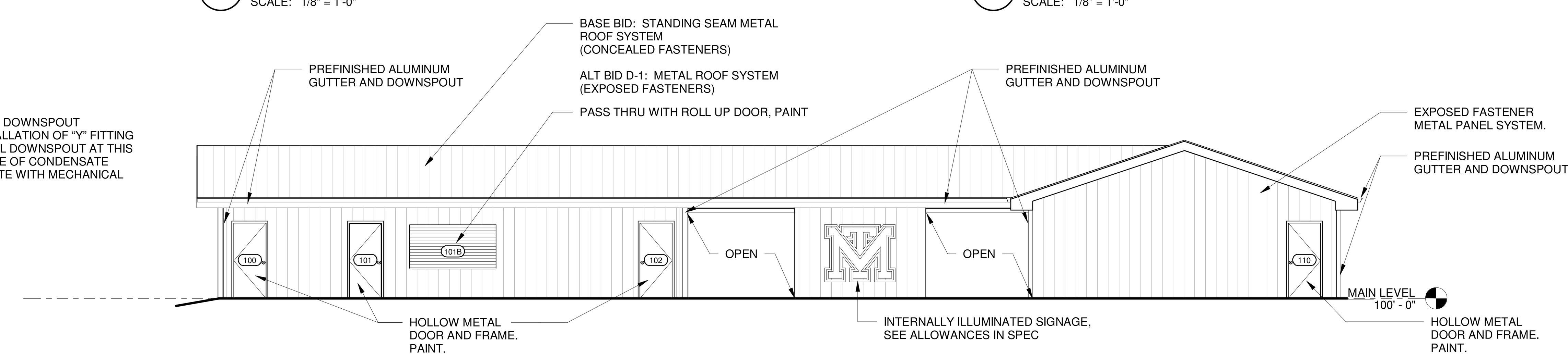
2 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



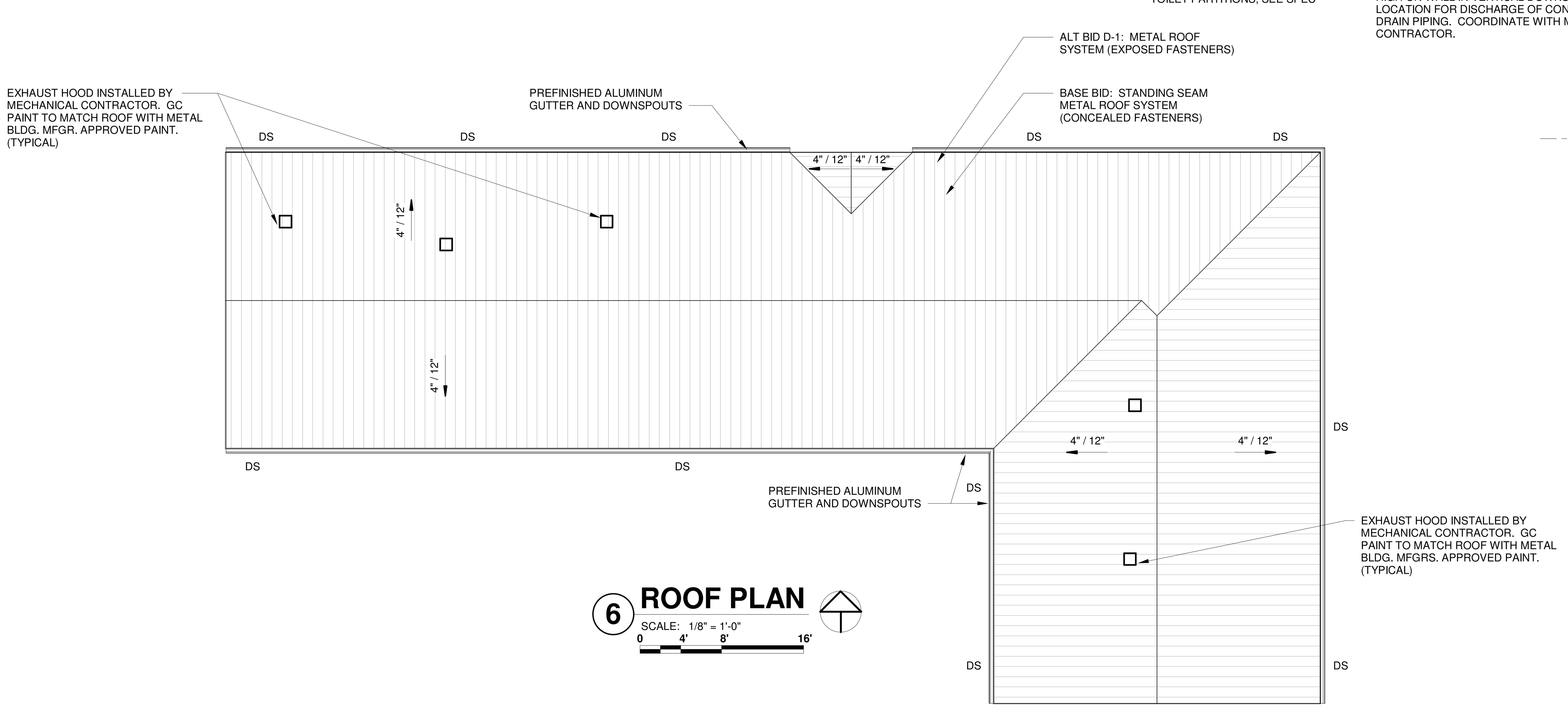
3 WEST ELEVATION
SCALE: 1/8" = 1'-0"



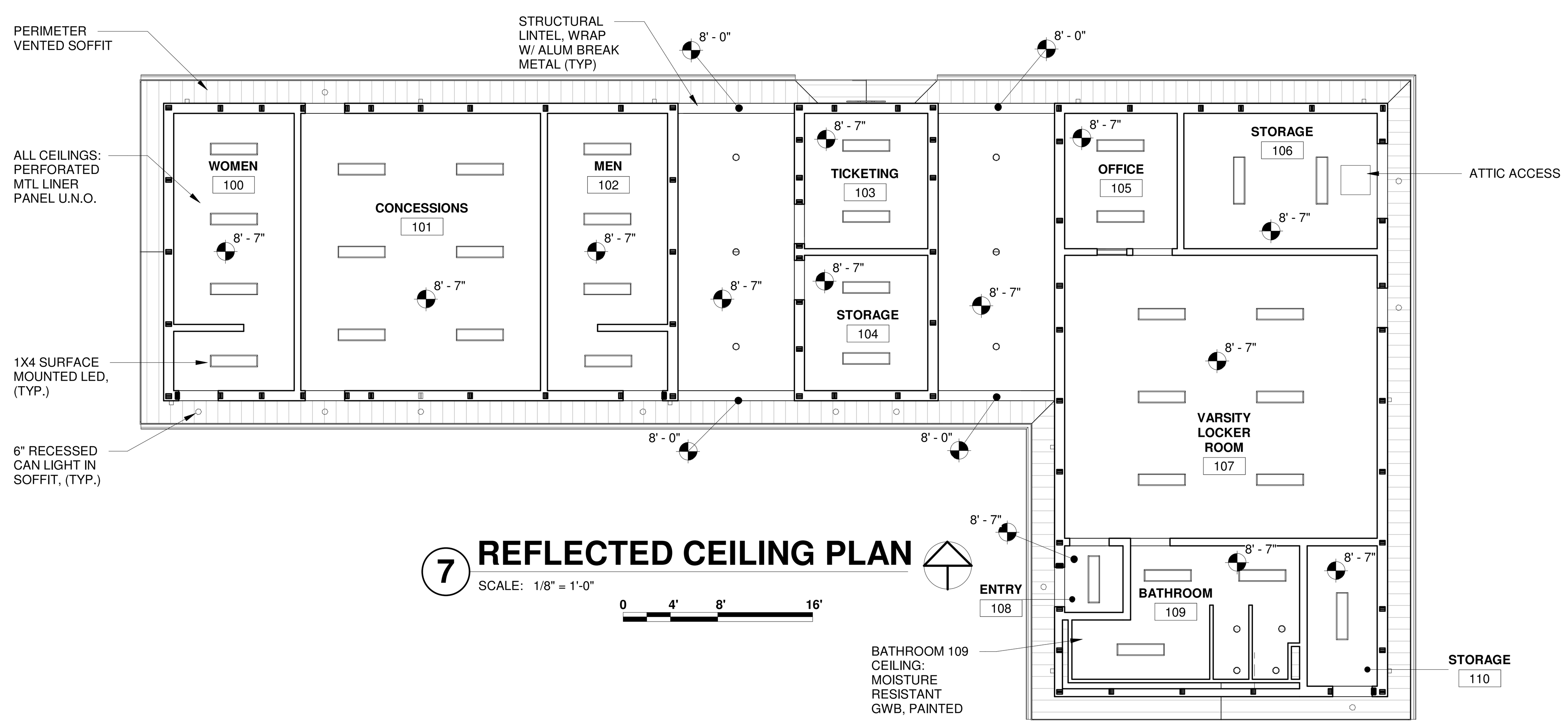
4 EAST ELEVATION
SCALE: 1/8" = 1'-0"



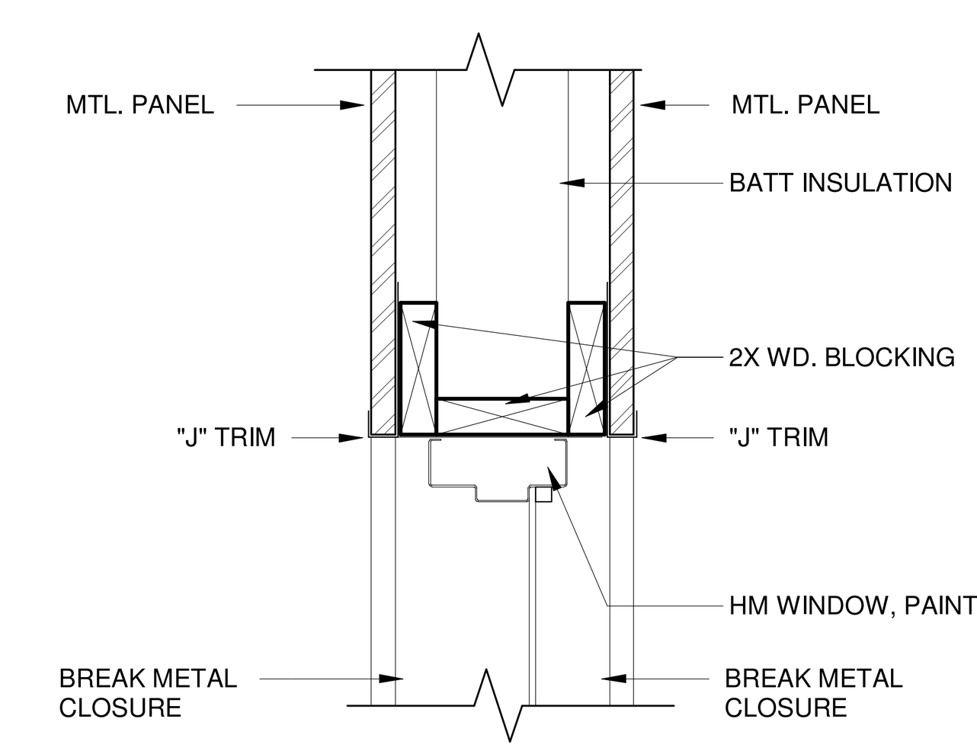
5 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



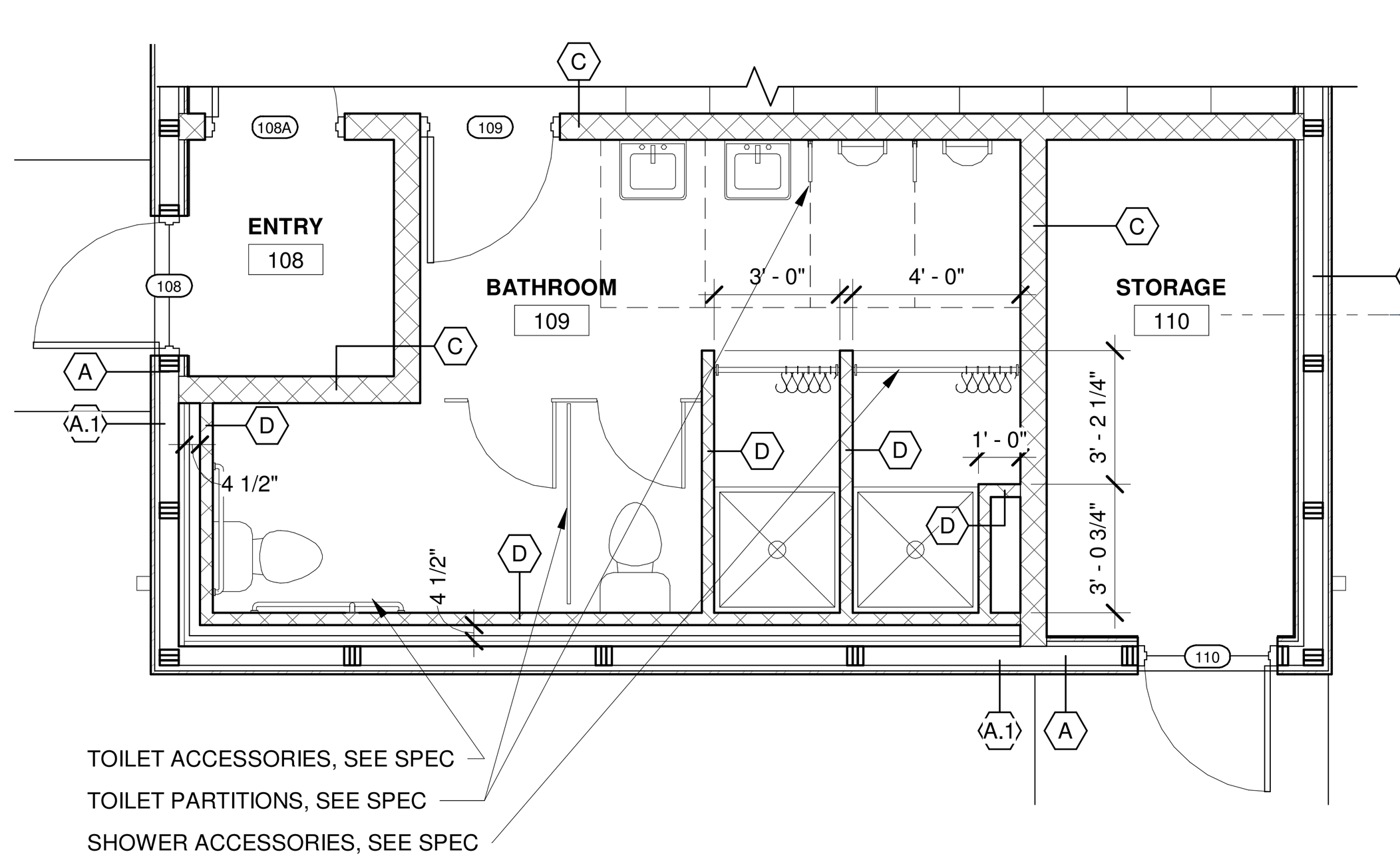
6 ROOF PLAN
SCALE: 1/8" = 1'-0"



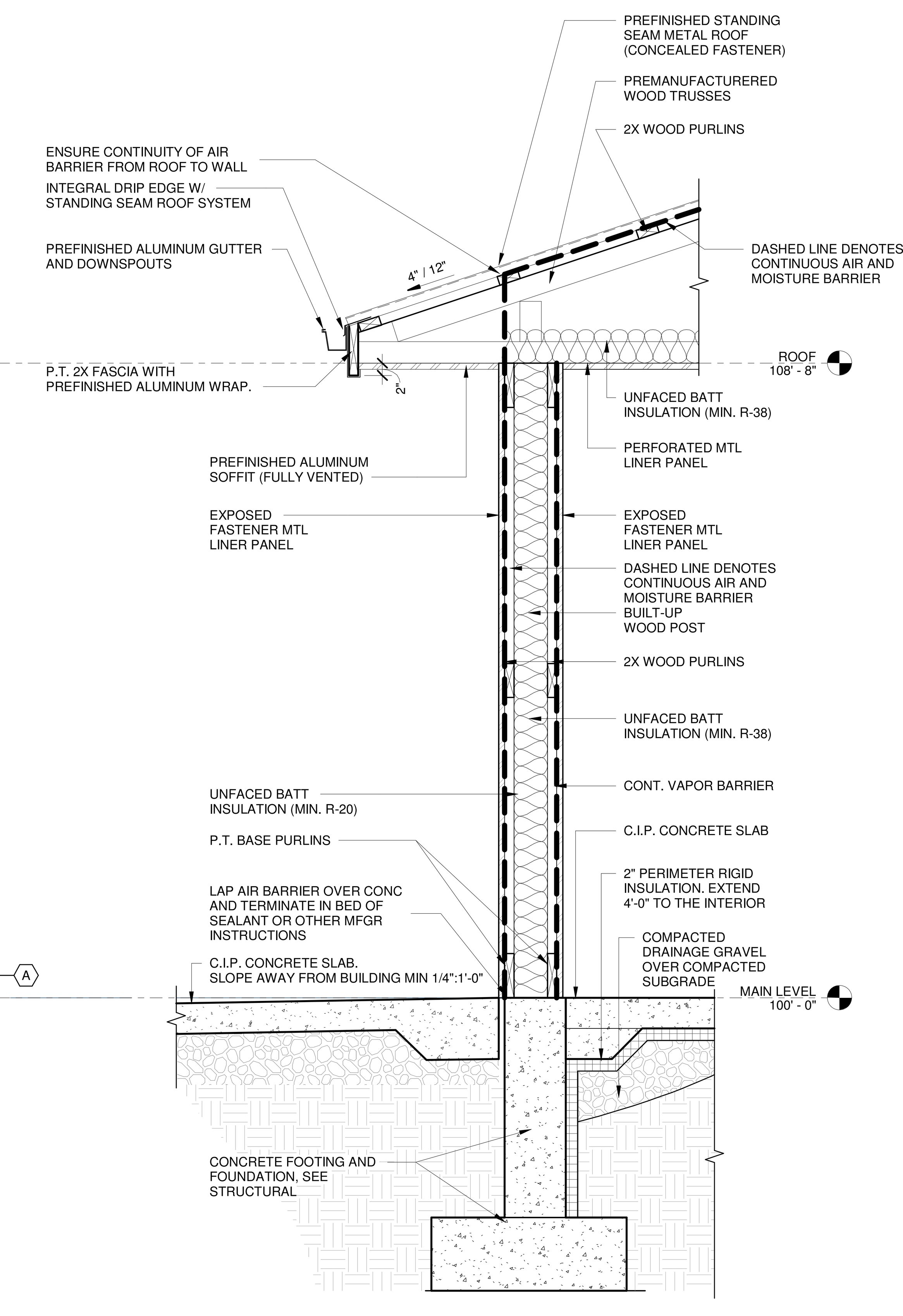
7 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"



10 WINDOW HEAD
SCALE: 1 1/2" = 1'-0"



9 ENLARGED RESTROOM PLAN
SCALE: 1/4" = 1'-0"



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

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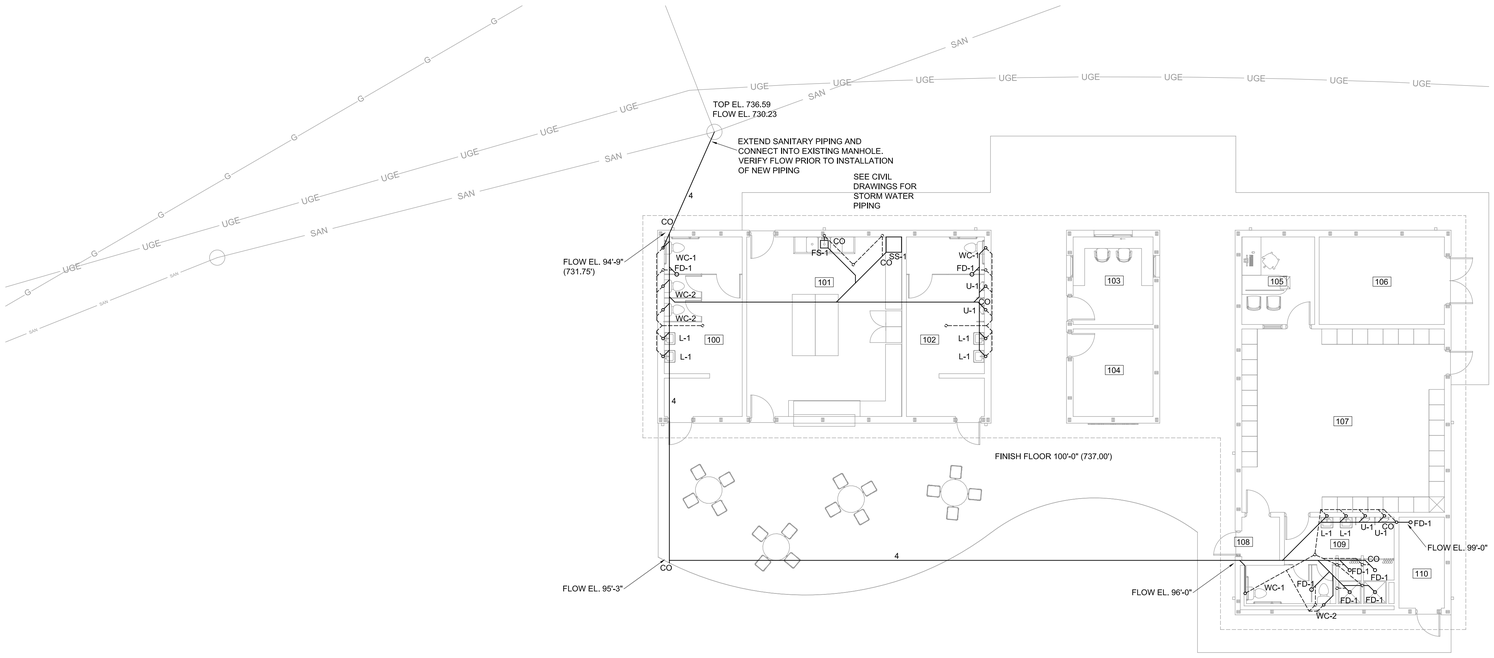
REVISIONS

NO.	Date	Description

PROJECT NUMBER 6003B

PLANS, ELEVATIONS AND DETAILS

DWG. NO.
A100



SANITARY PLUMBING PLAN

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

0 1" 2' 4' 8'

NORTH

PLUMBING SYMBOLS

1% = 1/8"/FT 2% = 1/4"/FT — SANITARY WASTE

SANITARY VENT

CLEANOUT- FCO, WCO, YCO

ST ST — STORM SEWER

DOMESTIC COLD WATER

HOT WATER

HOT WATER RECIRCULATION

HAND VALVE (BALL)

BALANCE VALVE

PLUMBING FIXTURE SCHEDULE

MK	FIXTURE / EQUIPMENT	MFGR	MODEL CAT. NO.	NOTES / ACCESSORIES
WC-1	FLOOR MOUNT TANK TYPE WATER CLOSET HC	KOHLER GERBER TOTO	K-4645 21318 CST744SL	WHITE: FLOOR MOUNT, 1.6 GAL. FLUSH, OPEN FRONT ELONGATED SEAT WITH LID EQUAL TO BEMIS #2150.
WC-2	FLOOR MOUNT TANK TYPE WATER CLOSET	KOHLER GERBER TOTO	K-3505 21-311 CST744S	WHITE: FLOOR MOUNT, 1.6 GAL. FLUSH, OPEN FRONT ELONGATED SEAT WITH LID EQUAL TO BEMIS #2150
U-1	URINAL	KOHLER	K-4991-ET	WITH ZURN OR EQUAL Z6003 3/4" MANUAL FLUSH VALVE
L-1	WALL HUNG LAVATORY HC	KOHLER GERBER TOTO	K-2867 12-654 LT307.4	WHITE; FAUCET: CENTERSET FAUCET WITH POP-UP EQUAL TO DELTA 21C233; CONCEALED WALL CARRIER ZURN #1200 SERIES OR EQUAL; TRUEBRO "LAV SHIELD" ENCLOSURE; McGUIRE "BV" SERIES CHRM. PLTD. WALL SUPPLIES W/ FLEX. RISERS MOUNT TOP OF FIXTURE 34" A.F.F.
S-1	TRIPLE WELL SINK	EAGLE	BPS-1854-3-24-FC	FAUCET: KROWNE 12-1812L; EXTERIOR DRAIN ACTIVATION LEVERS, AERO MFG. CO. AND ADVANCE TABCO APPROVED AS EQUAL SINK MFGRS.
SS-1	SERVICE SINK	EL MUSTEE FIAT PRODUCTS	NO 63 MSB24X24	WITH MOP BRACKET, HOSE AND BRACKET, VINYL BUMPER GUARD AND FAUCET WITH VACUUM BREAKER AND HOSE END, DELTA #28C2383, OR CHICAGO FAUCET #897-CP, INSTALL WITH DEEP SEAL TRAP
SH-1	SHOWER	BRADLEY	WS-1WCA-ADA	WITH THERMOSTATIC MIXING VALVE, SLIDE BAR, 2-WALL GRAB BAR, VERTICAL SHROUD TO 9'-0"
DB-1	DOWNSPOUT BOOT	NEENAH	R-4927 SERIES	WITH BLACK PRIMER FINISH (TYP.) VERIFY METAL DOWNSPOUT SIZE AND UNDERGROUND PIPING SIZE
FD-1	FLOOR DRAIN	832-49DNR	832-23DNR	POLISHED NICKEL BRONZE STRAINER, CAST IRON BODY, PROVIDE WITH DEEP SEAL TRAP & 5" DIA. TYPE B STRAINER
FS-1	FLOOR SINK	SIOUX CHIEF	861-23XF	12"X12"X8" DEEP CAST IRON BODY AND SQUARE, LIGHT-DUTY GRATE WITH ½ GRATE. WHITE ACID RESISTING PORCELAIN ENAMEL INTERIOR AND TOP, WHITE ABS ANTI-SPLASH INTERIOR BOTTOM DOME STRAINER, ALUMINUM MESH BUCKET.
WH-1	WATER HEATER	NAVIEN	NPE240A	199 MBH, SUPPLY WITH RECIRC KIT, CONCENTRIC VENT KIT THROUGH EXTERIOR WALL, ANTI-SCALE SYSTEM, GXXX001322 CONDENSATE NEUTRALIZATION KIT, AND WIFI LINK. EXTEND CONDENSATE TO NEARBY FLOOR DRAIN OR MOP SINK. CONTRACTOR AND SUPPLIER SHALL APPLY FOR AMEREN REBATE FOR DISTRICT.
WH-2	WATER HEATER	NAVIEN	NPE210A	180 MBH, SUPPLY WITH WITH CONCENTRIC VENT KIT THROUGH EXTERIOR WALL, ANTI-SCALE SYSTEM, GXXX001322 CONDENSATE NEUTRALIZATION KIT LINK. EXTEND CONDENSATE TO NEARBY FLOOR DRAIN OR MOP SINK. CONNECT TO WIFI LINK AT WH-1. CONTRACTOR AND SUPPLIER SHALL APPLY FOR AMEREN REBATE FOR DISTRICT.
FPH-1	FROST-PROOF HYDRANT	WOODFORD	MODEL #65	3/4" HOSE NOZZLE OUTLET AND KEY

ALL LAVATORIES AND SINKS SHALL BE FITTED WITH 17GA CHROME PLATED BRASS TRAP AND DRAIN SIZED PER DRAIN OPENING AND CHROME PLATED BRASS ANGLE WALL SUPPLIES WITH CHROME PLATED FLEXIBLE COPPER RISERS EQUAL TO McGUIRE H2160LK SERIES.

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REVISIONS

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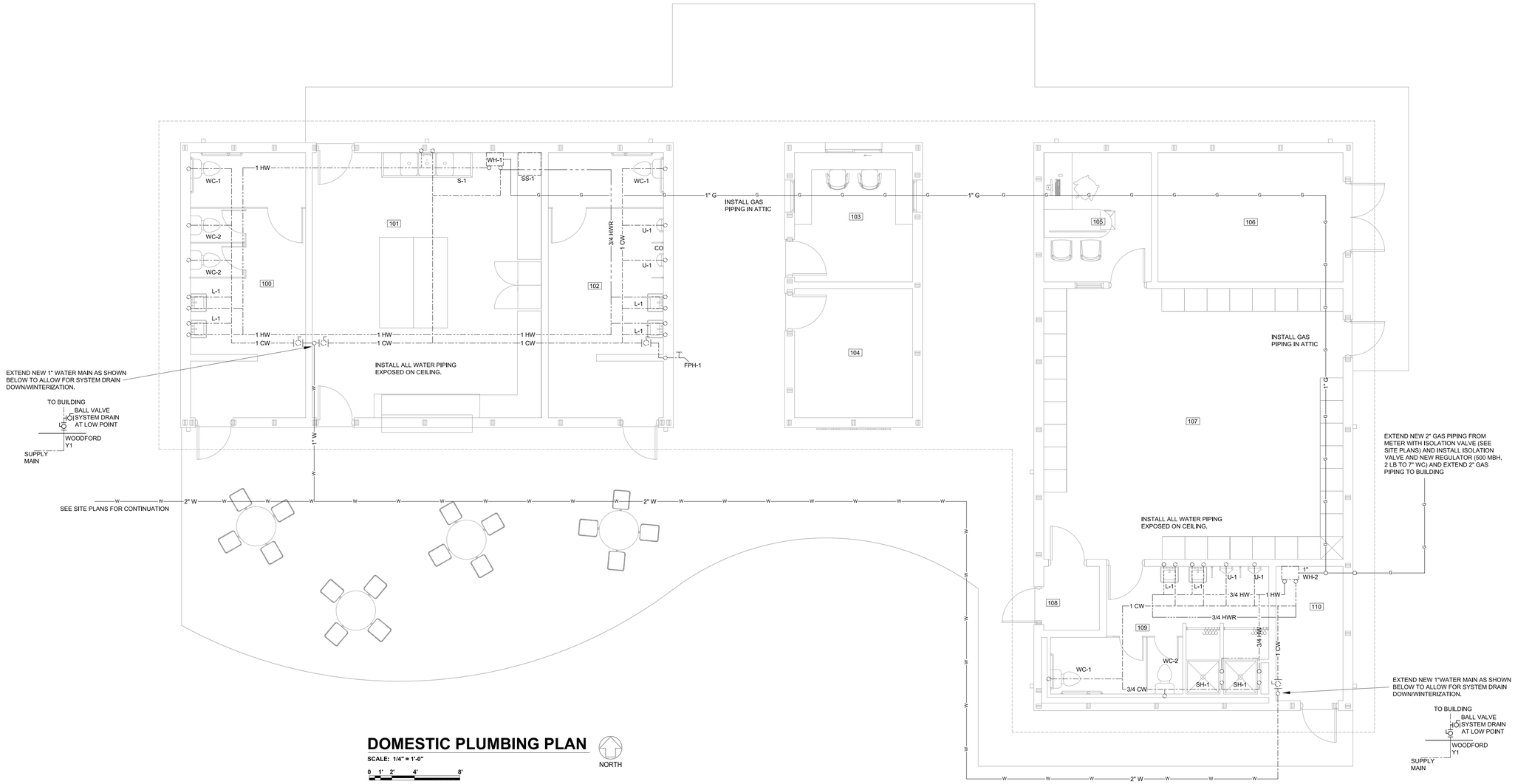
SANITARY PLUMBING PLAN

DWG. NO.

P100



DOMESTIC PLUMBING PLAN

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

0 1' 2' 4' 8'

NORTH

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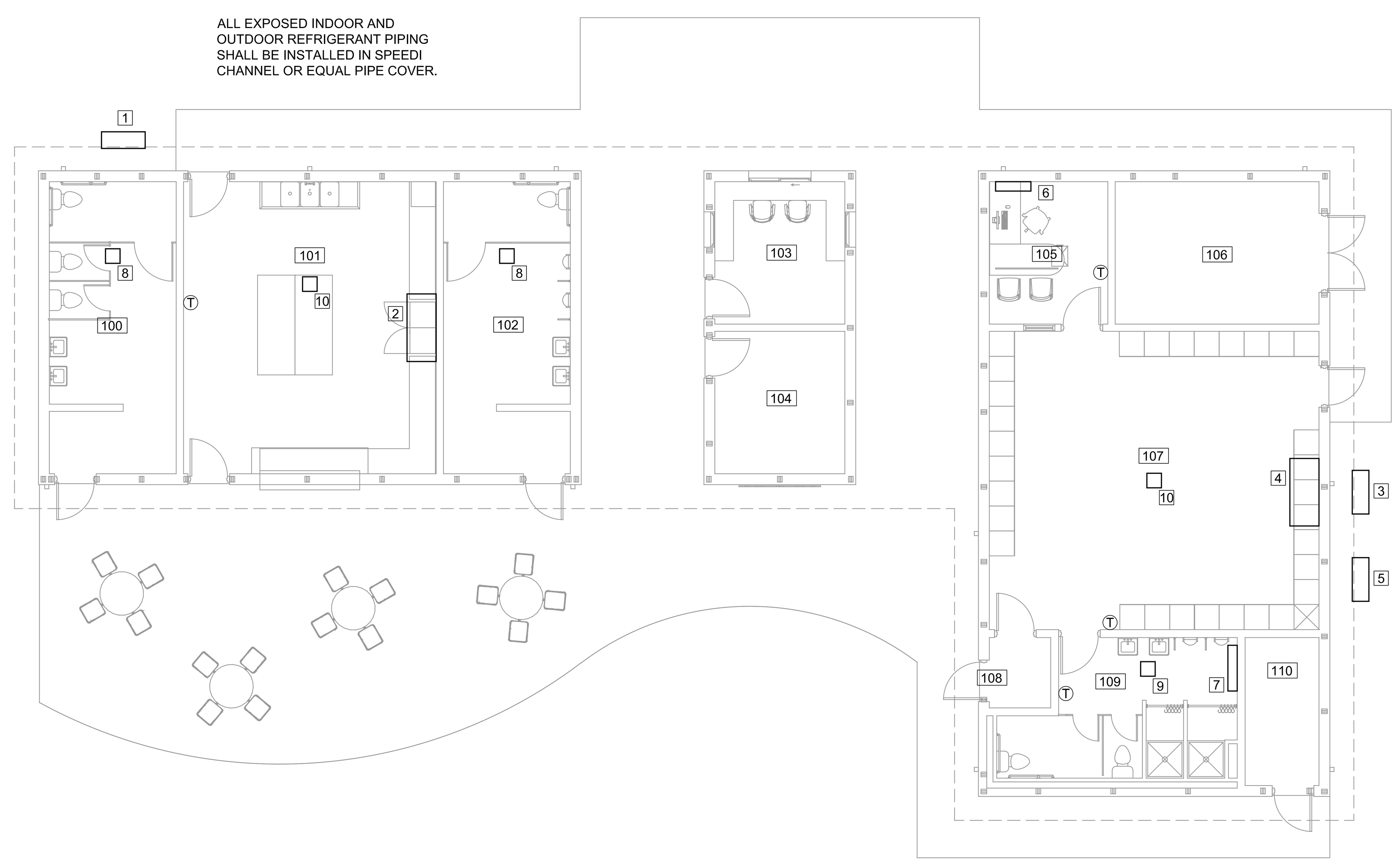
NO.	Date	Description

PROJECT NUMBER: **6003B**

DOMESTIC PLUMBING PLAN

DWG. NO.

P200



MECHANICAL PLAN

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

0 1' 2' 4' 8'

NORTH

MECHANICAL NOTES

1. INSTALL NEW LENNOX OR EQUAL MPB048S4S-1P OUTDOOR HEAT PUMP WITH HAIL GUARDS. MOUNT ON TREATED 4X4 BASE ANCHORED TO SIDEWALK. EXTEND REFRIGERANT PIPING WITH PROTECTIVE UV JACKET AND CONTROL WIRING UP WALL WITH SPEEDI CHANNEL OR EQUAL PIPE COVER THEN OVER IN ATTIC AND DOWN TO SERVE INDOOR UNIT. SEE NOTE 2. UNIT SHALL BE 240V, SINGLE PHASE AND INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

2. INSTALL NEW LENNOX OR EQUAL MCFB048S4-1P INDOOR UNIT EXPOSED ON CEILING AND INTERCONNECT WITH OUTDOOR UNIT (SEE NOTE 1). INCLUDE CONDENSATE PUMP AND EXTEND CONDENSATE PIPING OVER AND INTO SERVICE SINK. COORDINATE LOCATION OF CONDUIT FOR HARD WIRED PROGRAMMABLE THERMOSTAT WITH ELECTRICAL CONTRACTOR.

3. INSTALL NEW LENNOX OR EQUAL MPB048S4S-1P OUTDOOR HEAT PUMP UNIT WITH HAIL GUARDS. MOUNT ON TREATED 4X4 BASE ANCHORED TO SIDEWALK. EXTEND REFRIGERANT PIPING WITH PROTECTIVE UV JACKET AND CONTROL WIRING UP WALL WITH SPEEDI CHANNEL OR EQUAL PIPE COVER THEN OVER IN ATTIC AND DOWN TO SERVE INDOOR UNIT. SEE NOTE 4. UNIT SHALL BE 240V, SINGLE PHASE AND INDOOR UNIT IS POWERED FROM OUTDOOR UNIT.

4. INSTALL NEW LENNOX OR EQUAL MCFB048S4-1P INDOOR UNIT EXPOSED ON CEILING AND INTERCONNECT WITH OUTDOOR UNIT (SEE NOTE 3). INCLUDE CONDENSATE PUMP AND EXTEND CONDENSATE PIPING THRU EXTERIOR WALL AND INTO DOWNSPOUT (COORDINATE WITH DOWNSPOUT INSTALLER). COORDINATE LOCATION OF CONDUIT FOR HARD WIRED PROGRAMMABLE THERMOSTAT WITH ELECTRICAL CONTRACTOR.

5. INSTALL NEW LENNOX OR EQUAL MLA036S4M-1P OUTDOOR HEAT PUMP UNIT WITH HAIL GUARDS. MOUNT ON TREATED 4X4 BASE ANCHORED TO SIDEWALK. EXTEND REFRIGERANT PIPING WITH PROTECTIVE UV JACKET AND CONTROL WIRING UP WALL WITH SPEEDI CHANNEL OR EQUAL PIPE COVER THEN OVER IN ATTIC AND DOWN TO SERVE INDOOR UNITS. SEE NOTES 6, 7. UNIT SHALL BE 240V, SINGLE PHASE AND INDOOR UNITS ARE POWERED FROM OUTDOOR UNIT.

6. INSTALL NEW LENNOX OR EQUAL MWMA009S4-3P INDOOR UNIT EXPOSED HIGH ON WALL AND INTERCONNECT WITH OUTDOOR UNIT (SEE NOTE 5). INCLUDE CONDENSATE PUMP AND EXTEND CONDENSATE PIPING THRU EXTERIOR WALL AND INTO DOWNSPOUT (COORDINATE WITH DOWNSPOUT INSTALLER). COORDINATE LOCATION OF CONDUIT FOR HARD WIRED PROGRAMMABLE THERMOSTAT WITH ELECTRICAL CONTRACTOR.

7. INSTALL NEW LENNOX OR EQUAL MWMA024S4-2P INDOOR UNIT EXPOSED HIGH ON WALL AND INTERCONNECT WITH OUTDOOR UNIT (SEE NOTE 5). INCLUDE CONDENSATE PUMP AND EXTEND CONDENSATE PIPING THRU EXTERIOR WALL AND INTO DOWNSPOUT (COORDINATE WITH DOWNSPOUT INSTALLER). COORDINATE LOCATION OF CONDUIT FOR HARD WIRED PROGRAMMABLE THERMOSTAT WITH ELECTRICAL CONTRACTOR.

8. INSTALL TWIN CITY OR EQUAL T400H CEILING EXHAUST FAN, 120V, 225 CFM, 0.5" ESP WITH BACKDRAFT DAMPER, 80L INTERNAL SPEED CONTROLLER, DISCONNECT AND DUCT ADAPTER AND EXTEND 8" RIGID DUCT UP TO ROOF AND TERMINATE WITH #437 PAINTABLE ROOF CAP WITH DUCT ADAPTER AND BIRD SCREEN. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROL WITH LIGHT SWITCH.

9. INSTALL TWIN CITY OR EQUAL T500H CEILING EXHAUST FAN, 120V, 300 CFM, 0.5" ESP WITH BACKDRAFT DAMPER, 80L INTERNAL SPEED CONTROLLER, DISCONNECT AND DUCT ADAPTER AND EXTEND 8" RIGID DUCT UP TO ROOF AND TERMINATE WITH #437 PAINTABLE ROOF CAP WITH DUCT ADAPTER AND BIRD SCREEN. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROL WITH LIGHT SWITCH.

10. INSTALL TWIN CITY OR EQUAL T500H CEILING EXHAUST FAN, 120V, 400 CFM, 0.5" ESP WITH BACKDRAFT DAMPER , 80L INTERNAL SPEED CONTROLLER, DISCONNECT AND DUCT ADAPTER AND EXTEND 10" RIGID DUCT UP TO ROOF AND TERMINATE WITH #437 PAINTABLE ROOF CAP WITH DUCT ADAPTER AND BIRD SCREEN. COORDINATE WITH ELECTRICAL CONTRACTOR FOR FAN CONTROL WITH LIGHT SWITCH.

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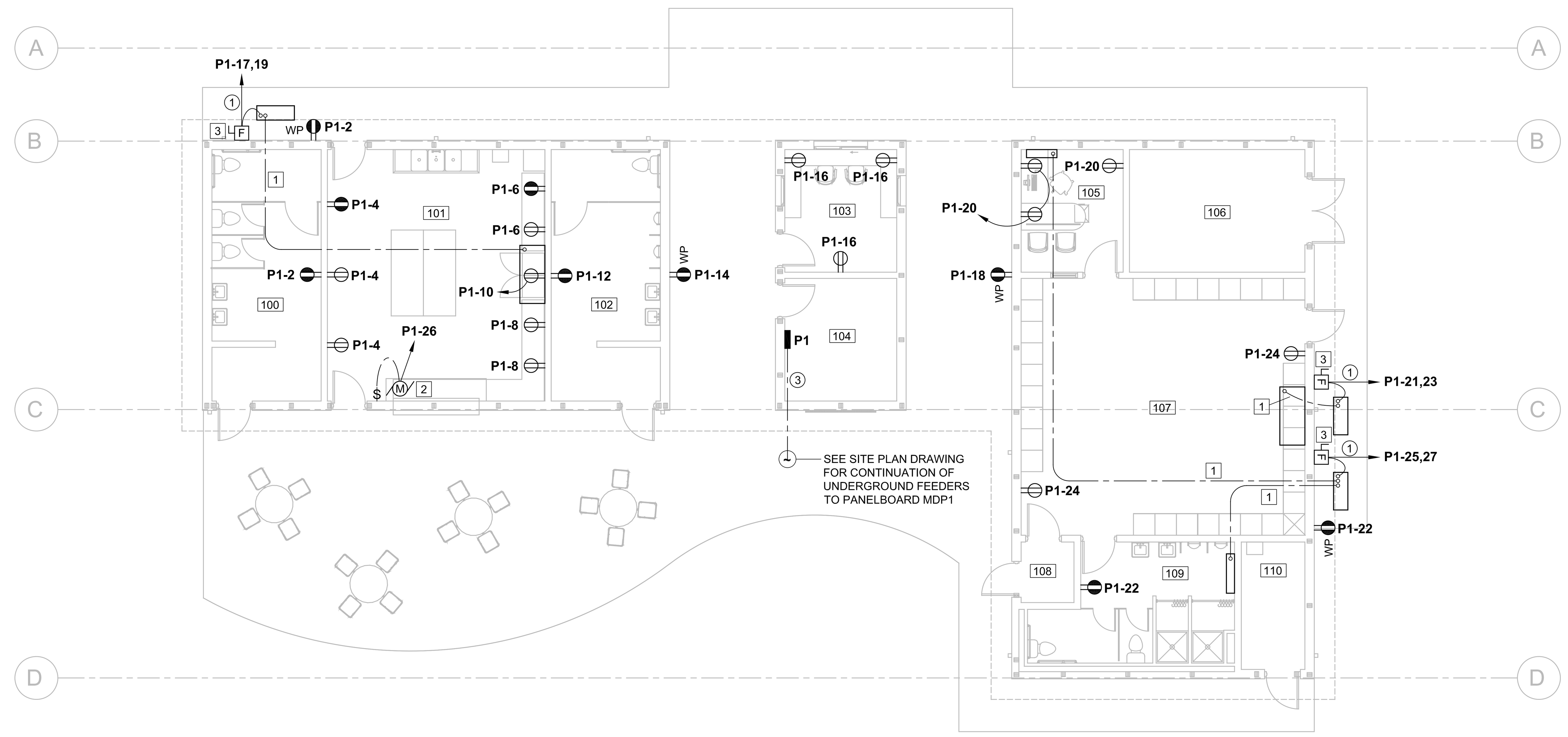
MECHANICAL PLAN

DWG. NO.

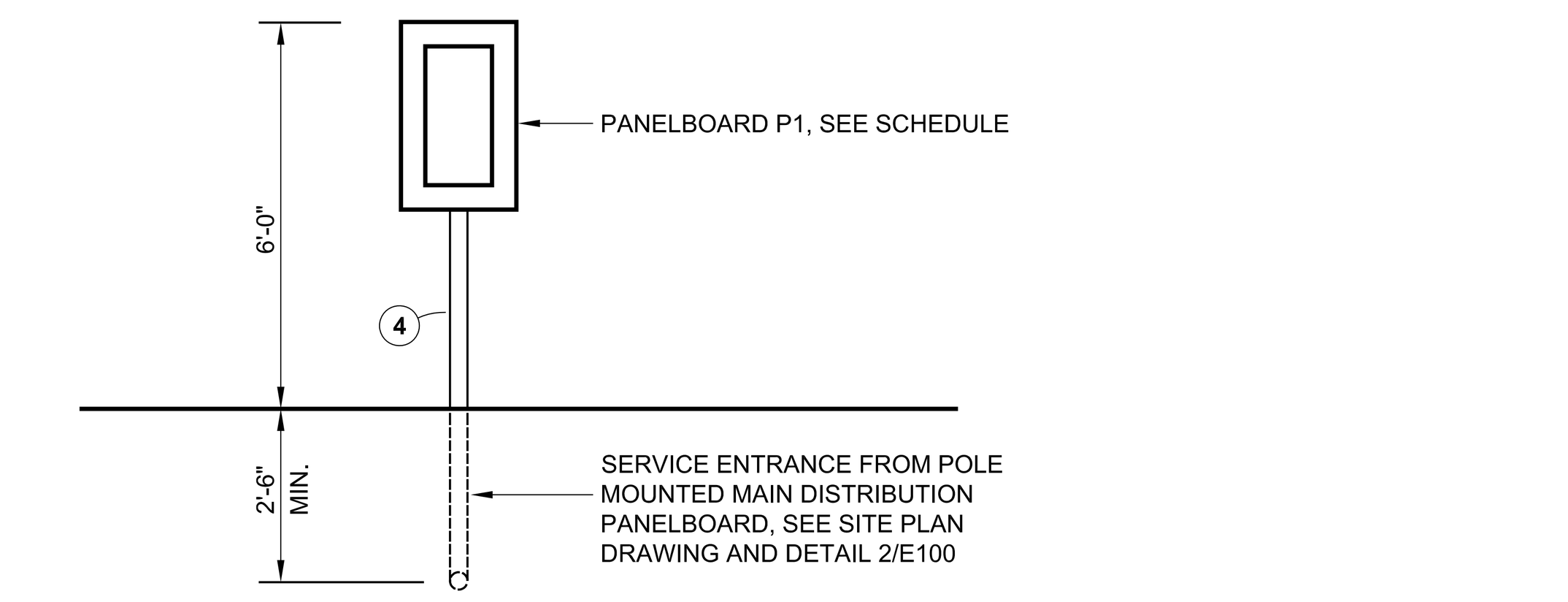
M100



ELECTRICAL PLAN - POWER

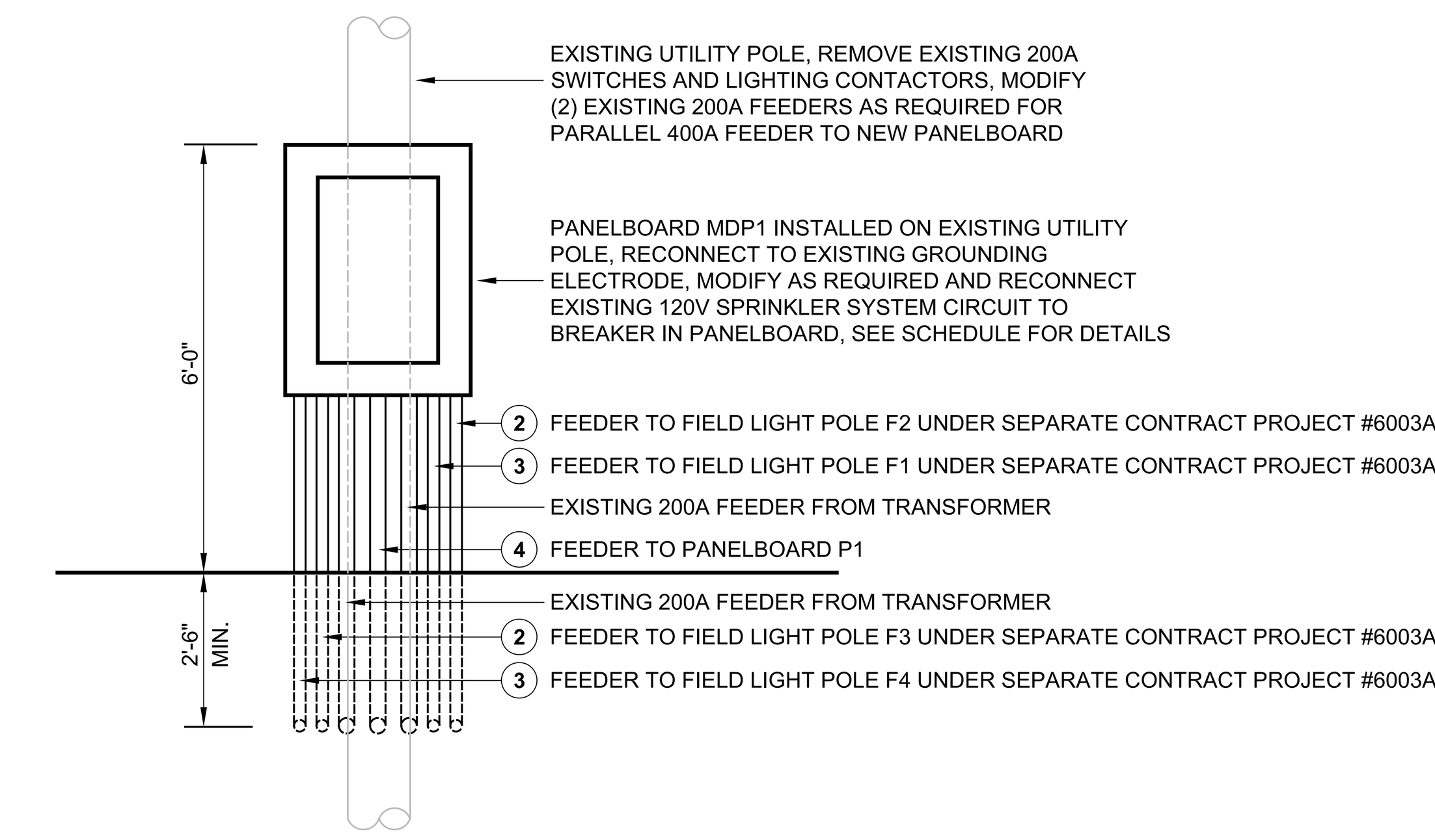
SCALE: 1/8" = 1'-0"

NORTH



1 BRANCH PANELBOARD

NOT TO SCALE



2 MAIN DISTRIBUTION PANELBOARD

NOT TO SCALE

BRANCH PANELBOARD "P1"
(SQUARE-D "NQ" TYPE NQ42L2C)

VOLTAGE RATING: 120/208 | PHASE: 1 | WIRE: 3

MIN. BUSS AMPS: 225 | MAIN DEVICE AMPS: 200 AMP MAIN BREAKER

BREAKER A.I.C.: 10,000 | MOUNTING: SURFACE NEMA-1

LOCATION DESCRIPTION	LOAD KW	DEVICE AMPS/P	CIR	PH	CIR	DEVICE AMPS/P	LOAD KW	LOCATION DESCRIPTION
EXTERIOR LIGHTS	0.325	20/1	1	A	2	20/1	0.360	WOMENS & EXTERIOR RECEPT.
WOMENS TOILET LIGHTS	0.765	20/1	3	B	4	20/1	0.540	CONCESSION RECEPTACLES
CONCESSION ROOM LIGHTS	1.025	20/1	5	A	6	20/1	0.360	CONCESSION RECEPTACLES
MENS TOILET LIGHTS	0.765	20/1	7	B	8	20/1	0.360	CONCESSION RECEPTACLES
TICKET BOOTH AREA LIGHTS	0.250	20/1	9	A	10	20/1	1.200	CONCESSION COOLER
LOCKER ROOM AREA LIGHTS	1.155	20/1	11	B	12	20/1	0.180	MENS TOILET RECEPTACLE
SHOWER ROOM AREA LIGHTS	0.995	20/1	13	A	14	20/1	0.180	EXTERIOR RECEPTACLE
TIME SWITCH	0.100	20/1	15	B	16	20/1	0.540	TICKET BOOTH RECEPTACLES
SPLIT SYSTEM HEAT PUMP	5.430	50/2	17	A	18	20/1	0.180	EXTERIOR RECEPTACLE
			19	B	20	20/1	0.540	OFFICE RECEPTACLES
SPLIT SYSTEM HEAT PUMP	5.430	50/2	21	A	22	20/1	0.360	SHOWER & EXTERIOR RECEPT.
			23	B	24	20/1	0.360	LOCKER ROOM RECEPTACLES
SPLIT SYSTEM HEAT PUMP	5.200	50/2	25	A	26	20/1	0.696	ROLL UP COUNTER DOOR
			27	B	28	20/1	---	SPARE
SPARE	---	20/1	29	A	30	20/1	---	SPARE
SPARE	---	20/1	31	B	32	20/1	---	SPARE
SPARE	---	20/1	33	A	34	20/1	---	SPARE
SPARE	---	20/1	35	B	36	20/1	---	SPARE
SPARE	---	20/1	37	A	38	20/1	---	SPARE
SPARE	---	20/1	39	B	40	20/1	---	SPARE
SPARE	---	20/1	41	A	42	20/1	---	SPARE
TOTAL CONNECTED LOAD (KW):		27.296						
TOTAL CONNECTED AMPS:		131.2						

MAIN DISTRIBUTION PANELBOARD "MDP1"
(SQUARE-D "I-LINE" TYPE HCM14644M)

VOLTAGE RATING: 120/208 | PHASE: 1 | WIRE: 3

MIN. BUSS AMPS: 400 | MAIN DEVICE AMPS: 400 AMP MAIN BREAKER

BREAKER A.I.C.: 22,000 | MOUNTING: SURFACE NEMA-3R

LOCATION DESCRIPTION	LOAD KW	DEVICE AMPS/P	CIR	PH	CIR	DEVICE AMPS/P	LOAD KW	LOCATION DESCRIPTION
FIELD LIGHTS POLE F1	10.530	70/2	1	A	2	60/2	9.730	FIELD LIGHTS POLE F3
			3	C	4			
FIELD LIGHTS POLE F2	10.130	70/2	5	A	6	60/2	9.730	FIELD LIGHTS POLE F4
			7	C	8			
SPARE SPACE			9	A	10	20/1	0.360	SPRINKLER SYSTEM
			11	C	12			SPARE SPACE
FIELD BUILDING PANELBOARD	27.296	200/2	13	A	14			
			15	C	16			
			17	A	18			
TOTAL CONNECTED LOAD (KW):		70.416						
TOTAL CONNECTED AMPS:		338.5						

GENERAL NOTES

1. ALL RECEPTACLES, SWITCHES, ETC. SHALL BE MOUNTED ON FACE OF WALL IN SURFACE BOX. CONDUIT RUNS SHALL BE SURFACE MOUNTED ON FACE OF WALL EXCEPT AS NOTED.
2. SEE SITE PLAN DRAWING FOR NEW FIBER OPTIC CABLING BY ELECTRICAL CONTRACTOR.

KEYED NOTES

[1] EXTEND MANUFACTURER FURNISHED WIRING CABLE IN CHANNEL WITH REFRIGERANT PIPING, SEE MECHANICAL PLAN FOR ROUTING INFORMATION.

[2] VERIFY ROLL UP COUNTER DOOR ELECTRICAL REQUIREMENTS PRIOR TO ROUGH-IN.

[3] 60/2/50, NEMA-3R FUSIBLE DISCONNECT SWITCH.

CIRCUIT SCHEDULE THIS DRAWING

(1) (2) - #8 CONDUCTORS, #10 GROUND, 3/4" CONDUIT (208V, 1-PH)

(2) (2) - #4 CONDUCTORS, #8 GROUND, 1-1/2" CONDUIT (208V, 1-PH)

(3) (2) - #3 CONDUCTORS, #8 GROUND, 1-1/2" CONDUIT (208V, 1-PH)

(4) (3) - #3/0 CONDUCTORS, #6 GROUND, 2-1/2" CONDUIT (120/208V, 1-PH)

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21622 HIGHWAY 19
CENTER, MO 63436

RALLS COUNTY R-II SCHOOL DISTRICT

NEW FIELD BUILDING

21622 HIGHWAY 19
CENTER, MO 63436

BIDDING PHASE

NOT FOR CONSTRUCTION

ISSUE DATE: 03/5/2021

REVISIONS

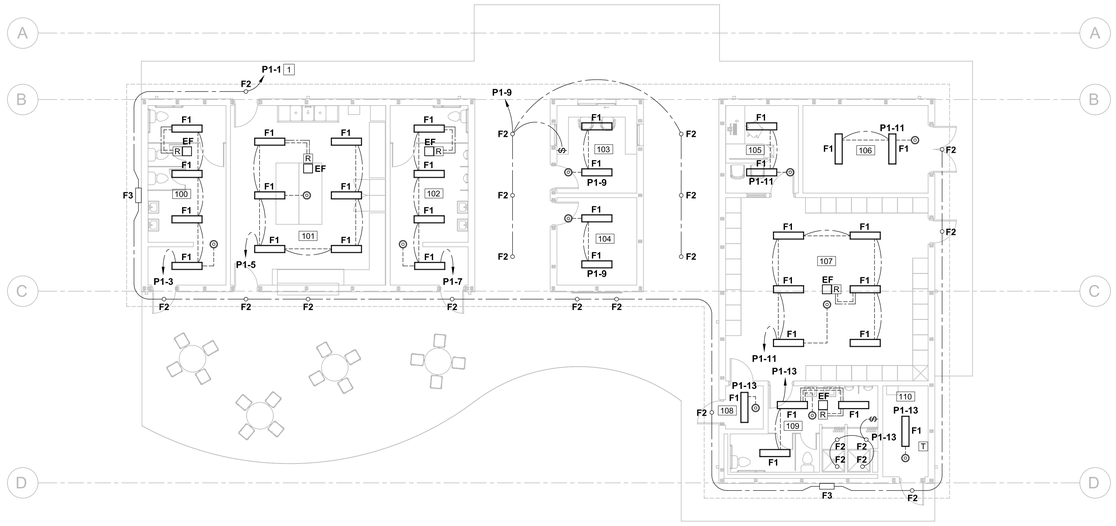
NO.	Date	Description

PROJECT NUMBER: 6003B

ELECTRICAL POWER PLAN

DWG. NO.

E100



ELECTRICAL PLAN - LIGHTING

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

0 1' 2' 4' 8'

NORTH

LIGHTING FIXTURE SCHEDULE

MARK	SYMBOL	DESCRIPTION	MANUFACTURER	CATALOG NO.	LAMP(S)	VOLTAGE	WATTS	FINISH	REMARKS
F1	▭	1 x 4 LED SURFACE MOUNT WRAPAROUND	LITHONIA LIGHTING	LBL4-4000LM-80CRI-40K-MIN1-nLIGHT-MVOLT	LIGHT EMITTING DIODES	120	32,4	STANDARD	WITH INTEGRATED nLIGHT CONTROLS
F2	○	RECESSED LED DOWNLIGHT	GOTHAM	EVO6SH-40/20-DFF-SMO-MVOLT-EZ10	LIGHT EMITTING DIODES	120	19,7	STANDARD	
F3	▭	SURFACE MOUNTED LED WALLPACK	LITHONIA LIGHTING	TWR1-LED-ALO-40K-MVOLT-DDBTXD	LIGHT EMITTING DIODES	120	51,0	STANDARD	WALL MOUNT 144" ABOVE FLOOR
	◎	DUAL TECHNOLOGY OCCUPANCY SENSOR	LITHONIA LIGHTING	nCM PDT 9	---	---	---	STANDARD	ON / OFF PHOTOCELL OPERATION
	R	PLUG LOAD CONTROL POWER PACK	LITHONIA LIGHTING	nPP20 PL	---	---	---	STANDARD	MOUNT THROUGH A 1/2" KNOCKOUT IN ANY JUNCTION BOX OR EXHAUST FAN
	T	ASTRONOMIC TIME SWITCH	INTERMATIC	ET8015C	---	---	---	STANDARD	MOUNT ADJACENT TO PANELBOARD P1

KEYED NOTES

1 CIRCUIT CONTROLLED DUSK TO DAWN VIA TIME SWITCH.

GENERAL NOTES

1. ALL LIGHTING CONTROL DEVICES SHALL BE MOUNTED ON FACE OF WALL OR CEILING IN SURFACE BOX. ALL CONDUIT RUNS SHALL BE SURFACE MOUNTED ON FACE OF WALL OR CEILING EXCEPT AS NOTED.

WIRING LEGEND

CAT-5e CABLE

120V LINE VOLTAGE POWER WIRING

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REVISIONS

NO.	Date	Description

PROJECT NUMBER: 6003B

ELECTRICAL LIGHTING PLAN

DWG. NO.
E200