



Board of Zoning Appeals
Board Meeting

Agenda

June 2, 2021
5:30 PM

CALL TO ORDER

MINUTES APPROVAL

- Board of Zoning Appeals - Board Meeting - Apr 7, 2021 5:30 PM

BZA FILES

- 2021-BZA-08 : 810 N Sandusky ST - Variance for Accessory Structure Larger Than 35% of the Primary Structure

ADJOURN AT THE CALL OF THE CHAIRMAN



Board of Zoning Appeals Meeting: 06/02/21 5:30 PM
City of Mount Vernon Dept: **Board of Zoning Appeals**
Mount Vernon, OH 43050

DRAFT

Category: N/A
 Prepared By: Lacie Blankenhorn
 Initiator: Lacie Blankenhorn

BZA FILE (ID # 2337)

DOC ID: 2337

**2021-BZA-08 : 810 N SANDUSKY ST - VARIANCE FOR ACCESSORY STRUCTURE
 LARGER THAN 35% OF THE PRIMARY STRUCTURE**

Item Number	2021-BZA-08
Site Address	810 N Sandusky ST
Parcel Number	66-00627.000
Zoning District	GB – General Business
Presented By	Brad Beaver, Mount Vernon Overhead Door

Quick Guide to Codified Ordinance Sections (may not be inclusive): 1167 GB General Business District 1173 Supplementary District Regulations (1173.04 – 1173.06; 1173.10; 1173.11)
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Request: Mount Vernon Overhead Door requests to build a 60' x 100' storage building.

The primary structure is 50' x 132' (6,600 sf).



City of Mount Vernon, Ohio
Board of Zoning Appeals

Request for Hearing

Applicant's Information			
Owner's Name, Address and Phone <i>Brad Beaver 810 North Sandusky ST 740-397-2536</i>			
Agent's Name, Address and Phone <i>_____</i>			
Site Information			
Site Address <i>810 North Sandusky ST.</i>		Legal Description <i>13.61 NPT of 13.156 AC</i>	
Parcel Number <i>66-00627.000</i>	Deed Volume and Page Number <i>1518/663</i> <i>1808/504</i>	Zoning District <i>GB</i>	
Existing use of property <i>MT. Vernon Overhead Doors</i>		Proposed use of property <i>MUOD Storage</i>	
Hearing Request			
Type of Hearing Requested			
☒ Variance ☐ Conditional Use ☐ Appeal of Decision ☐ Map Interpretation ☐ Substantially Similar Use			
In the following section, please list a brief description of the request. Narrative statements and any additional documents or information required by the Zoning Code and Chapter 1155 should be attached to this application as separate sheets.			
Request:			
I hereby certify that the information submitted on this application and on any sketches, drawings or other documents submitted with this application is true and exact. Date: <i>5-7-2021</i> By: <i>Brad Beaver</i>			
Status of Application			
Filing Date <i>5/7/21</i>		Case Number <i>2021-BZA-08</i>	
		Hearing Date <i>June 2, 2021</i>	
Fee deposit <i>\$75.00</i>		Date Paid <i>5/7/21</i>	Receipt Number <i>003331</i>
Status of Board's Action			
☐ Approved ☐ Denied			

Attachment: 2021-BZA- 08 Application (2337 : 2021-Bza-08)

Mount Vernon Overhead Door

Sales • Service • Commercial • Residential

810 North Sandusky Street, Mount Vernon, OH 43050

Phone: 740.397.2536 Fax: 740.397.4942

5-10-2021

Application and Standards for Variances:

- 1.) The variance will be in accord with the general purpose and intent of the regulations imposed by this zoning ordinance at the district in which it is located, and shall not be injurious to the area of otherwise detrimental to the public welfare.
- 2.) By granting us this variance, we will not use it for something that is not permitted in the district.
- 3.) We are adding a building for storage for Mount Vernon Overhead door and potential growth to the business. A lot split was considered. Maintaining 1 parcel is preferred because the proposed additional storage structure will directly support the existing business. A lot split would also require shared use easements of the stormwater facility, water and wastewater access as well as the access entrance of SR 13.
- 4.) Mount Vernon Overhead has grown over the past year. We have had to order doors and supplies ahead of time due to the delays with Covid 19 so the additional space will help us to store that. We also would like to have growth in the company. Water retention and site prep was prepared already for the possibility of building.
- 5.) By getting the variance we will use it for reasonable use of the building.
- 6.) We will have adequate supply of light and air to adjacent property, it will not increase the congestions on public streets, or increase the danger of fire, public safety and will not diminish or impair property values of the adjacent area.
- 7.) I understand that the granting of the variance requested will not confer on the applicant any special privileges that is denied by this regulation to other lands, structures, or buildings in the same district.

Sincerely,

Brad Beaver



City of Mount Vernon, Ohio
Application for Zoning Permit

Permit No. _____

2021267

Application			
Owner's Name, Address and Phone and e-mail <i>Brad Beaver 810 N. Sandusky ST. 740-627-0899 brad@muohd.com</i>			
Contractor's Name, Address and Phone and e-mail <i>SAM SIAGAUGH 4488 HANDSCOMB RD 740-501-5635</i>			
Applicant's Name, Address and Phone and e-mail <i>Brad Beaver</i>			
Site Information			
Site Address <i>810 North Sandusky ST.</i>		Side Street (if corner lot)	
Legal Description <i>13.61 NPT OF 13.156 AC</i>	Parcel Number <i>66-00627.000</i>	Deed Volume and Page Number	
Zoning District (circle one) <i>RR R-1 R-2 R-3 PND NC CB (GB) O/I M-1 M-1A P-1 R-MH</i>		Flood Zone ☐ Floodway ☐ AE Zone ☐ A Zone ☐ X Zone	
Historic District ☐ Yes ☒ No	Status of Historic Review Commission's Action ☐ Approved ☐ Denied Case Number:		
Project Information			
Description of Proposed Work <i>STORAGE FOR MUOH D BOX 100</i>			
Existing use of property <i>MT. Vernon Overhead Water</i>		Proposed use of property <i>STORAGE FOR MUOH D</i>	
Parking spaces/loading berths	Structure height	Dwelling units	
State Approval: _____ Date _____	Approval Number _____		☐ Full approval ☐ Partial approval ☐ Not required
I hereby certify that the information submitted on this application and on any sketches, drawings or other documents submitted with this application is true and exact. This permit shall expire and may be revoked if work has not begun within <u>six months</u> or substantially completed within <u>one year</u> . Date: <i>4-29-2021</i> By: <i>[Signature]</i>			

Status of Application		
☐ Application rejected	Date _____ By _____	Reason(s) _____
☐ Referred to Board of Appeals: Status of Board's Action: ☐ Approved ☐ Denied Case Number: _____		
Code Review _____ Date: _____	Site Review _____ Date: _____	
☐ Application approved Comments _____		
By: _____		Date: _____

Fee Calculation		
Estimated Cost <i>220,000 -</i>	Base Fee Park Development Fee Total Fee	Date Paid/Permit Issued: Cash ☐ Check ☐

Updated 4-30-2019

Attachment: APP - ZNG - Sandusky ST, 810 N (2337 : 2021-Bza-08)

City of Mount Vernon Zoning Permit Sketch

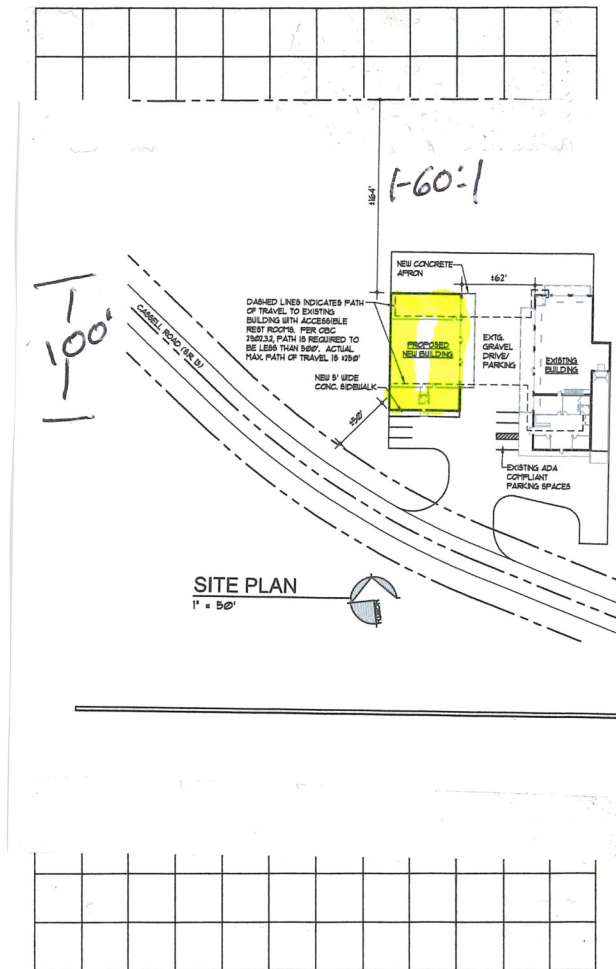
Site Address

810 North Sandusky ST

Instructions to Applicant

Supply all the information requested and complete the diagram below by showing the following:

1. Existing structures with solid lines
2. Proposed structures with dashed lines
3. Setback distances from all property lines.
4. Dimensions of all structures
5. Dimensions of the lot
6. Street name(s)



Street Name

810 North Sandusky ST.

I hereby certify that the information submitted on this sketch and/or other attached drawings and documents is true and correct.

By
Date

Zoning Enforcement Officer Action

☐ Approved ☐ Disapproved

By
Date

Attachment: APP - ZNG - Sandusky ST, 810 N (2337 : 2021-Bza-08)

PROJECT DESCRIPTION

THE PROPOSED PROJECT IS A NEW BUILDING FOR MOUNT VERNON OVERHEAD DOOR COMPANY. THE BUILDING WILL BE USED AS STORAGE/WAREHOUSE FOR MISCELLANEOUS STORAGE THAT WILL ALSO BE USED FOR PARKING NON-COMMERCIAL MOTOR VEHICLES OVERNIGHT. THE BUILDING WILL ALSO CONTAIN AN AREA THAT WILL BE BUILT-OUT AS AN OFFICE SPACE UNDER A FUTURE CONTRACT AND SEPARATE PERMIT.

NO REPAIR WORK WILL BE PERFORMED IN THE BUILDING. NO MOTOR VEHICLES WILL BE OPERATED WITHIN THE BUILDING PER MECHANICAL CODE SECTION 502.4. EXCEPTION 3. MECHANICAL VENTILATION IS NOT REQUIRED IN MOTOR VEHICLE SERVICE AREAS WHERE ENGINES ARE OPERATED INSIDE THE BUILDING ONLY FOR THE DURATION NECESSARY TO MOVE THE MOTOR VEHICLES IN AND OUT OF THE BUILDING.

THE INSIDE STORAGE, DISPENSING AND USE OF MATERIAL IN EXCESS OF THOSE PERMITTED THE THE OHIO BUILDING CODE, TABLES 301.1(1) AND 301.1(2) SHALL BE PROHIBITED IN THIS BUILDING.

THERE SHALL BE NO HIGH-FILED OR RACK STORAGE IN THIS BUILDING EXCEEDING 12 FT. IN HEIGHT TO THE TOP OF THE HIGHEST STORED COMMODITY. STORAGE SHALL MEET THE DEFINITION OF NFPA 33.18 LOW-FILED STORAGE. SOLID-FILED, PALLETIZED, RACK STORAGE, BIN BOX, AND SHELF STORAGE UP TO 12 FT. IN HEIGHT.

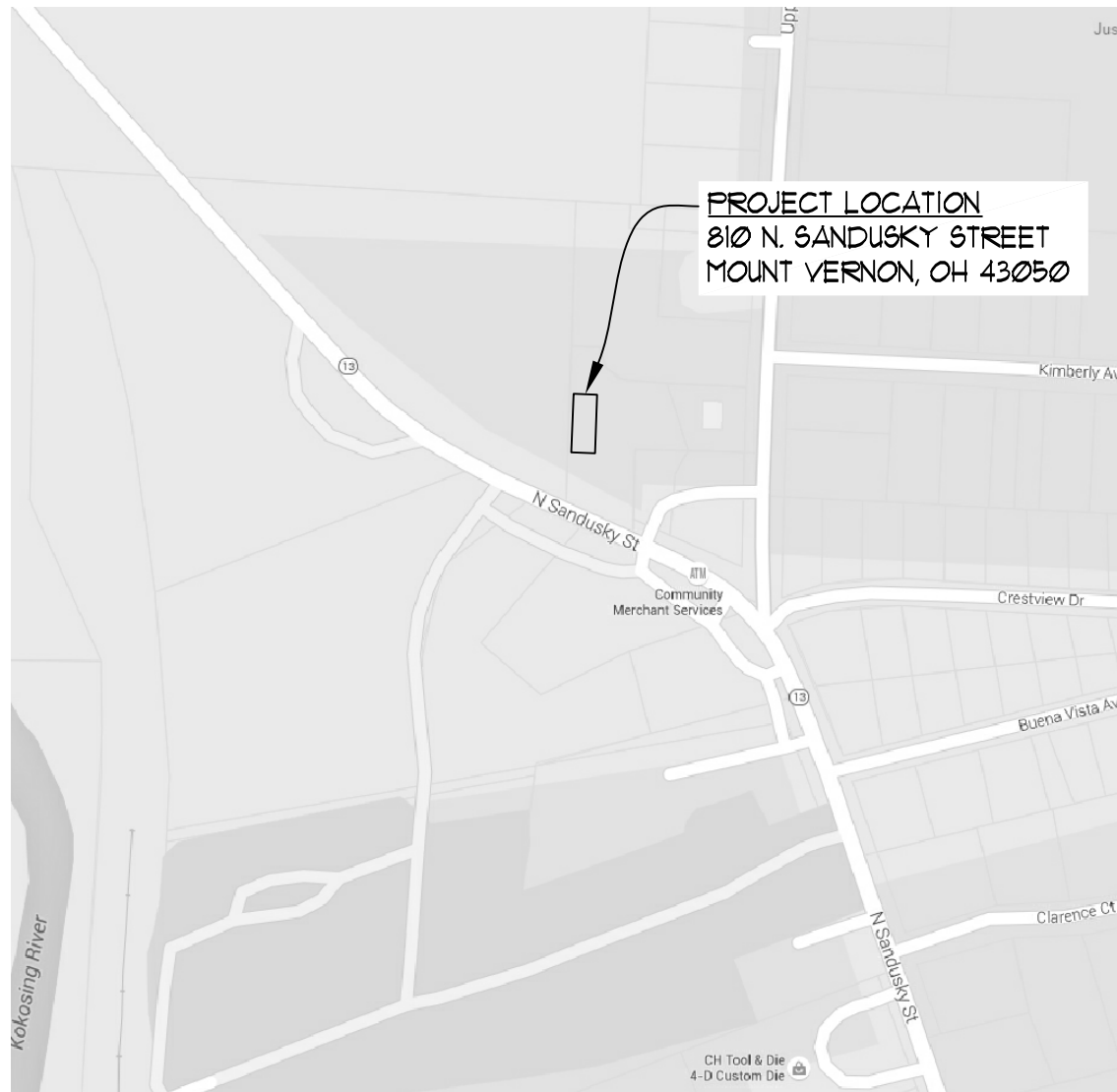
OHIO BUILDING CODE INFORMATION

SECTION REF. DESCRIPTION

SECTIONS 304 & 311 STORAGE & BUSINESS	CHAPTER 3: USE AND OCCUPANCY CLASSIFICATION A. USE GROUP CLASSIFICATION MIXED S-1 & B
TABLES 504.3, 504.4 & 506.2 ALLOWABLE NO. OF STORIES, HEIGHT & AREA 508.3.2 NONSEPARATED OCCUPANCIES	CHAPTER 5: GENERAL BUILDING HEIGHTS AND AREAS A. ALLOWABLE AREA & HEIGHT BASED ON MOST RESTRICTIVE USE (TABLE 503) (STORAGE (S-1)) 9,000 SF, 1 STORY, 40' B. ACTUAL GROSS AREA FIRST FLOOR FUTURE OFFICE AREA 122 SF. STORAGE/WAREHOUSE & UTILITY 4,818 SF. TOTAL FIRST FLOOR 6,000 SF. C. THE STORAGE/WAREHOUSE (S-1) AND FUTURE OFFICE (B) AREAS SHALL BE CONSIDERED NON-SEPARATED MIXED USES PER SECTION 508.3.2. THE MOST RESTRICTIVE OCCUPANCY (S-1) ALLOWABLE HEIGHT AND AREA SHALL APPLY TO THE ENTIRE BUILDING.
TABLE 601 FIRE RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS	CHAPTER 6: TYPES OF CONSTRUCTION A. CONSTRUCTION TYPE 5B STRUCTURAL FRAME 0 HOUR BEARING WALLS 0 HOUR EXTERIOR INTERIOR 0 HOUR NONBEARING WALLS 0 HOUR EXTERIOR ROOF CONSTRUCTION 0 HOUR
9032.9 SPRINKLER SYSTEMS IN GROUP (S-1) 9032.9.1 REPAIR GARAGES 9012.2 FIRE ALARM SYSTEMS IN GROUP (B)	CHAPTER 9: FIRE PROTECTION SYSTEMS A. THIS BUILDING WILL NOT MEET ANY OF THE CRITERIA THAT WOULD REQUIRE THE INSTALLATION OF AN AUTOMATIC SPRINKLER SYSTEM. B. NO COMMERCIAL VEHICLES WILL BE STORED IN THIS BUILDING. C. NO REPAIR WORK WILL BE PERFORMED IN THE BUILDING. D. THIS BUILDING WILL NOT MEET ANY OF THE CRITERIA THAT WOULD REQUIRE THE INSTALLATION OF A FIRE ALARM SYSTEM
TABLE 1004.12 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT	CHAPTER 10: MEANS OF EGRESS A. NUMBER OF OCCUPANTS FUTURE OFFICE AREA: 122 SF. @ 100 SF. GROSS/OCC. = (12) OCC. STORAGE/WAREHOUSE & UTILITY AREA: 4,818 SF. @ 500 SF. GROSS/OCC. = (10) OCCUPANTS TOTAL OCCUPANT LOAD = (22) OCCUPANTS
TABLE 2902.1 MIN NUMBER OF PLUMBING FIXTURES	CHAPTER 29: PLUMBING SYSTEMS A. WATER CLOSETS: PROPOSED BUILDING (B) MEN'S - 6 OCC. @ 1:50 = 0.12 (S-1) MEN'S - 5 OCC. @ 1:100 = 0.05 EXISTING BUILDING (B) MEN'S - 5 OCC. @ 1:50 = 0.10 (S-1) MEN'S - 8 OCC. @ 1:100 = 0.08 TOTAL MEN'S WATER CLOSETS = 1 (0.35) PROPOSED BUILDING (B) WOMEN'S - 6 OCC. @ 1:50 = 0.12 (S-1) WOMEN'S - 5 OCC. @ 1:100 = 0.05 EXISTING BUILDING (B) WOMEN'S - 5 OCC. @ 1:50 = 0.10 (S-1) WOMEN'S - 8 OCC. @ 1:100 = 0.08 TOTAL WOMEN'S REQUIRED = 1 (0.35) B. LAVATORIES: PROPOSED BUILDING (B) MEN'S - 6 OCC. @ 1:80 = 0.08 (S-1) MEN'S - 5 OCC. @ 1:100 = 0.05 EXISTING BUILDING (B) MEN'S - 5 OCC. @ 1:80 = 0.07 (S-1) MEN'S - 8 OCC. @ 1:100 = 0.08 TOTAL MEN'S REQUIRED = 1 (0.28) PROPOSED BUILDING (B) WOMEN'S - 6 OCC. @ 1:80 = 0.08 (S-1) WOMEN'S - 5 OCC. @ 1:100 = 0.05 EXISTING BUILDING (B) WOMEN'S - 5 OCC. @ 1:80 = 0.07 (S-1) WOMEN'S - 8 OCC. @ 1:100 = 0.08 TOTAL WOMEN'S REQUIRED = 1 (0.28) C. EXISTING REST ROOMS ARE LOCATED WITHIN 500' OF THE STORAGE BUILDING IN THE EXISTING OFFICE BUILDING ON THE SAME SITE AND UNDER THE SAME OWNERSHIP. D. EXISTING BUILDING FIXTURE CALCULATIONS SHOWN ABOVE TO SHOW THAT ADDITIONAL OCCUPANTS OF THE PROPOSED BUILDING WILL NOT INCREASE THE NUMBER OF REQUIRED FIXTURES. E. PER OGC 4401 BOTTLED WATER WILL BE PROVIDED IN STEAD OF THE DRINKING FOUNTAIN PER OGC TABLE 2902.1. REFER TO ATTACHED LETTER FROM OWNER.
	CHAPTER 16: STRUCTURAL DESIGN A. REFER TO SHEET S-1 FOR STRUCTURAL DESIGN LOADS.

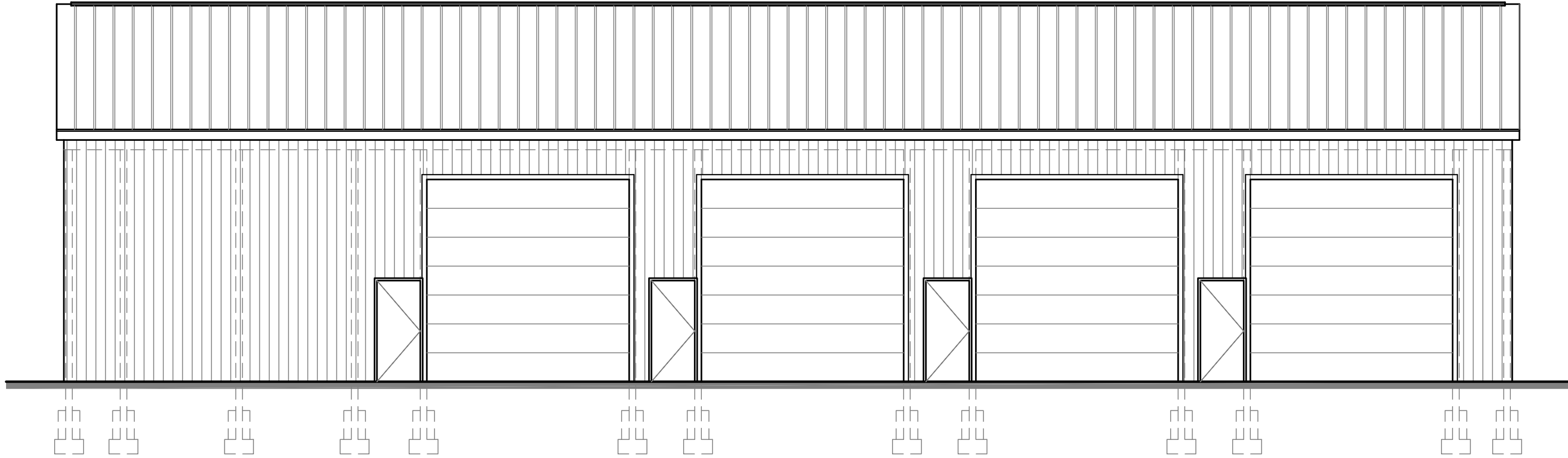
A NEW COMMERCIAL BUILDING: MOUNT VERNON OVERHEAD DOOR

810 N. SANDUSKY STREET MOUNT VERNON, OH 43050



COVER	BUILDING CODE NOTES, SHEET INDEX, LOCATION MAP
A1	SITE PLAN, FLOOR PLAN, NOTES AND SCHEDULES
A2	EXTERIOR ELEVATIONS
A3	1/4" BUILDING SECTIONS AND 3/4" WALL SECTIONS
S1	FOUNDATION AND FRAMING PLANS
SD-1	GENERAL STRUCTURAL NOTES
SD-2	STRUCTURAL FOUNDATION DETAILS
SD-3	STRUCTURAL FRAMING DETAILS
SD-4	STRUCTURAL FRAMING DETAILS
MPI	MECHANICAL AND PLUMBING PLANS, NOTES AND DETAILS
E1	ELECTRICAL PLANS AND NOTES

index



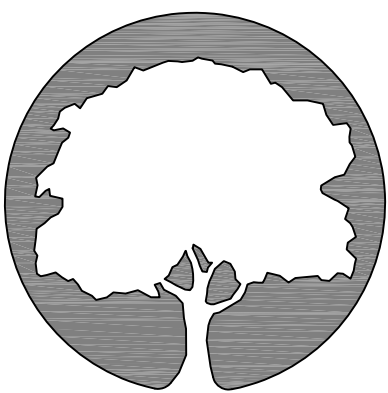
PROJECT DIRECTORY

OWNER
Mount Vernon
Overhead Door, LLC
810 N. Sandusky St.
Mount Vernon, OH 43050
(740) 397-2536

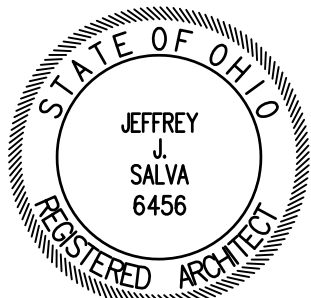
ARCHITECT
Green Valley Design, LLC
9301 Green Valley Road
Mount Vernon, OH 43050
(740) 397-2282
(740) 397-8718 (Fax)

M.E.P. ENGINEER
Hill Engineering
3 W. Central Ave.
Delaware, OH 43015
(740) 363-0400

STRUCTURAL ENGINEER
Jack D. Walters and Associates, Inc.
5166 Blazer Parkway
Dublin, OH 43017
(614) 889-2516



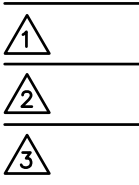
GREEN VALLEY DESIGN, LLC
9301 Green Valley Road
Mt. Vernon, Ohio 43050
740-397-2282
info@greenvalleydesign.net



Jeffrey J. Salva, License # 7906456
Expiration Date 12/31/2021

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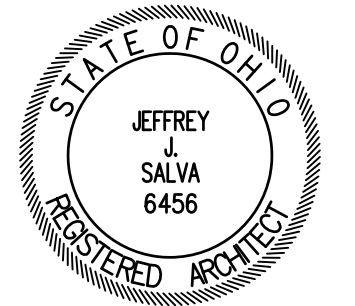


APRIL 27, 2021

zoning submission	☐
design development	☐
construction document	☒
bidding	☐
building permit submission	☒
not for construction	☐
record / archive	☐
owner review	☐

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Mount Vernon, Ohio 43050

740-397-2282

A NEW COMMERCIAL BUILDING FOR:
**MOUNT VERNON
OVERHEAD DOOR**

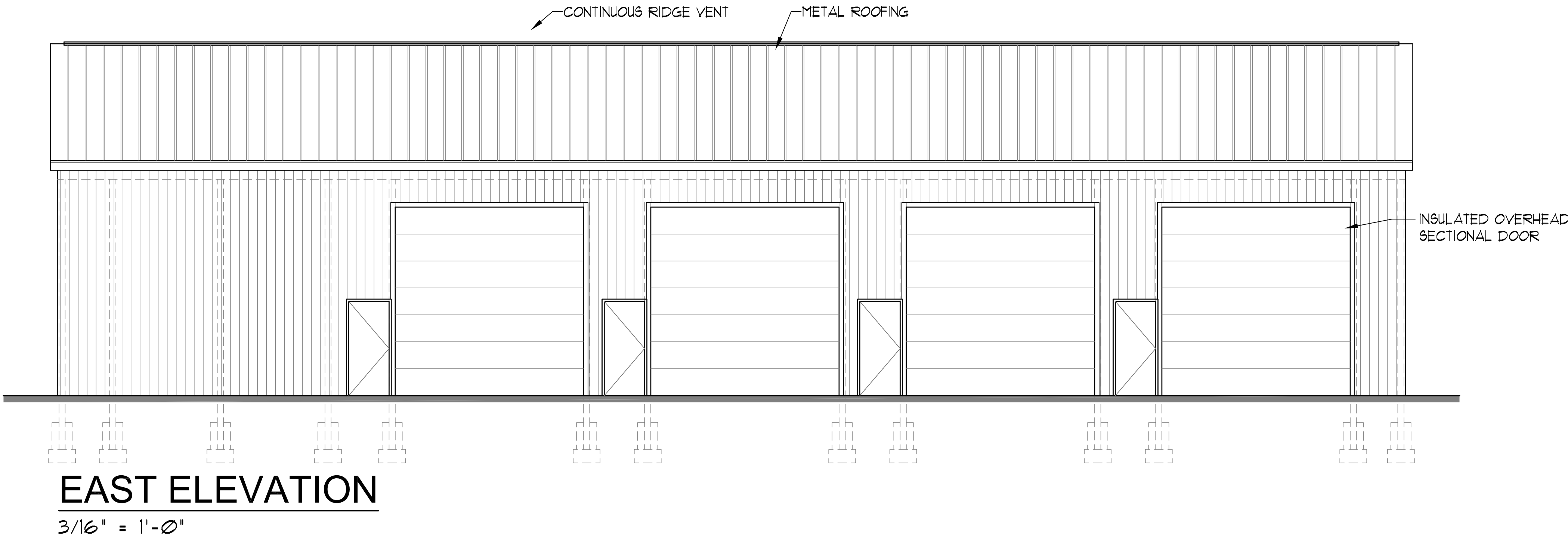
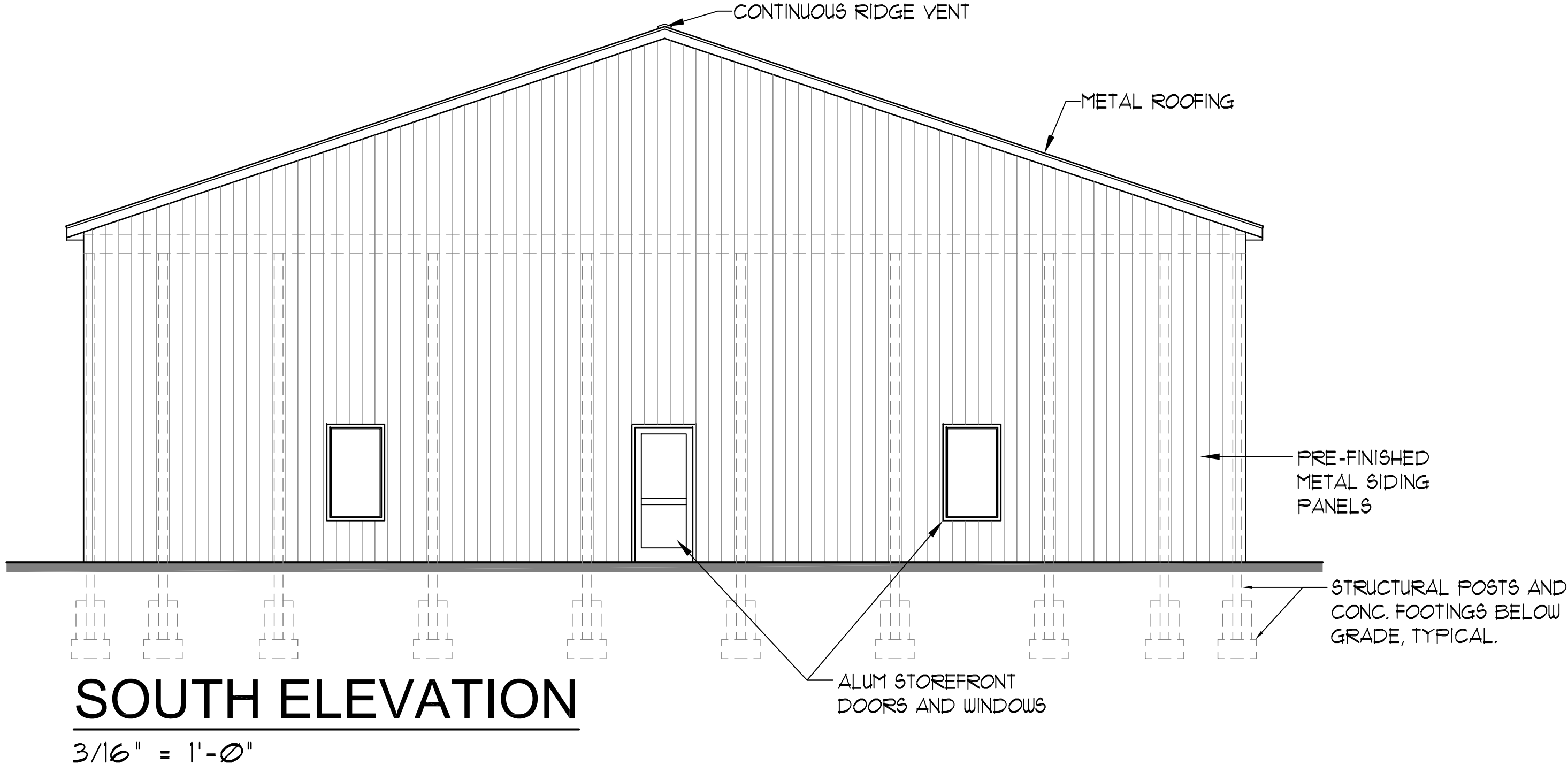
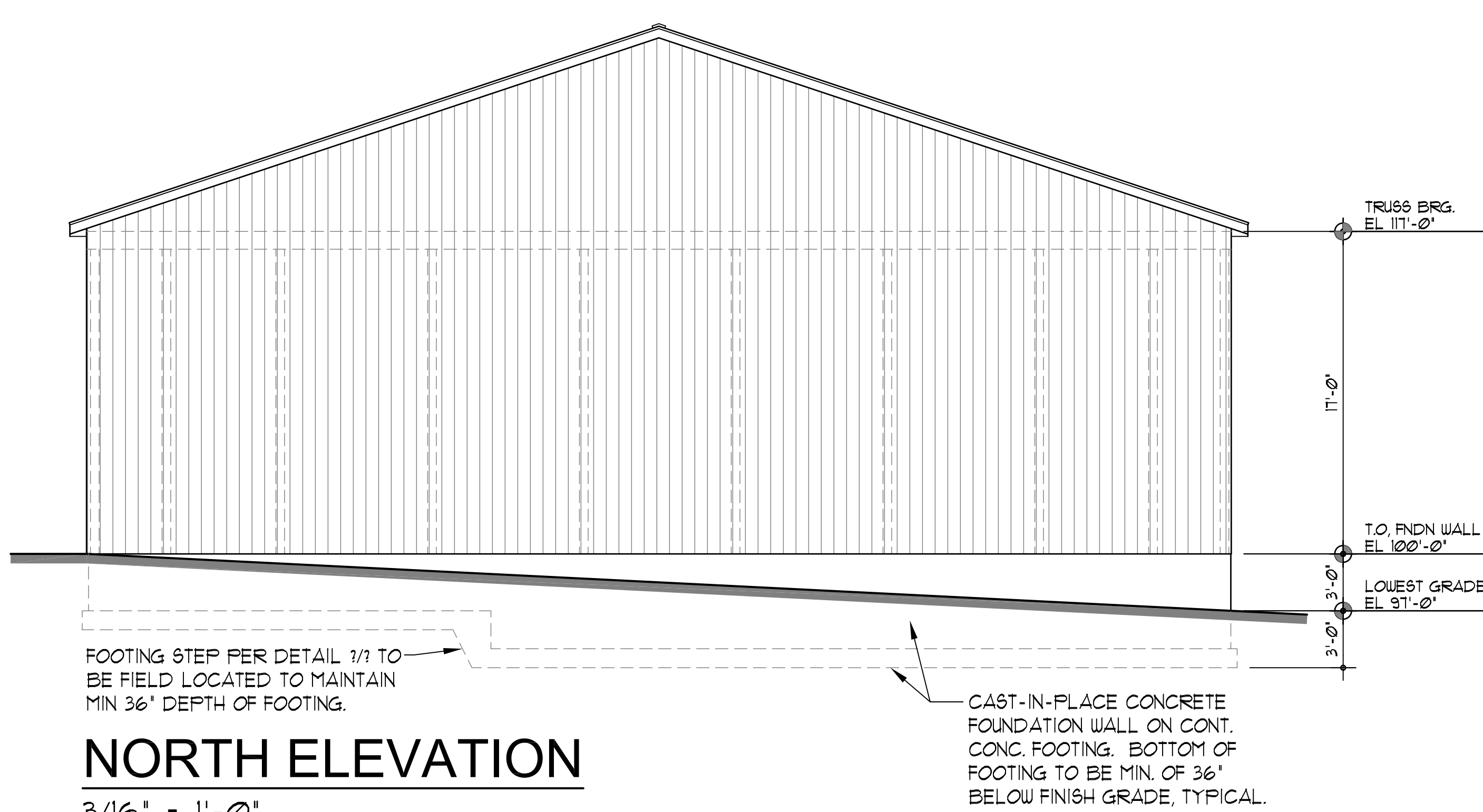
810 N. SANDUSKY ST.
MOUNT VERNON, OH 43050
Attachment: 2021-04-27_21m01_MVOHDoor_PermitDWGs (2337 : 2021-B2a-08)

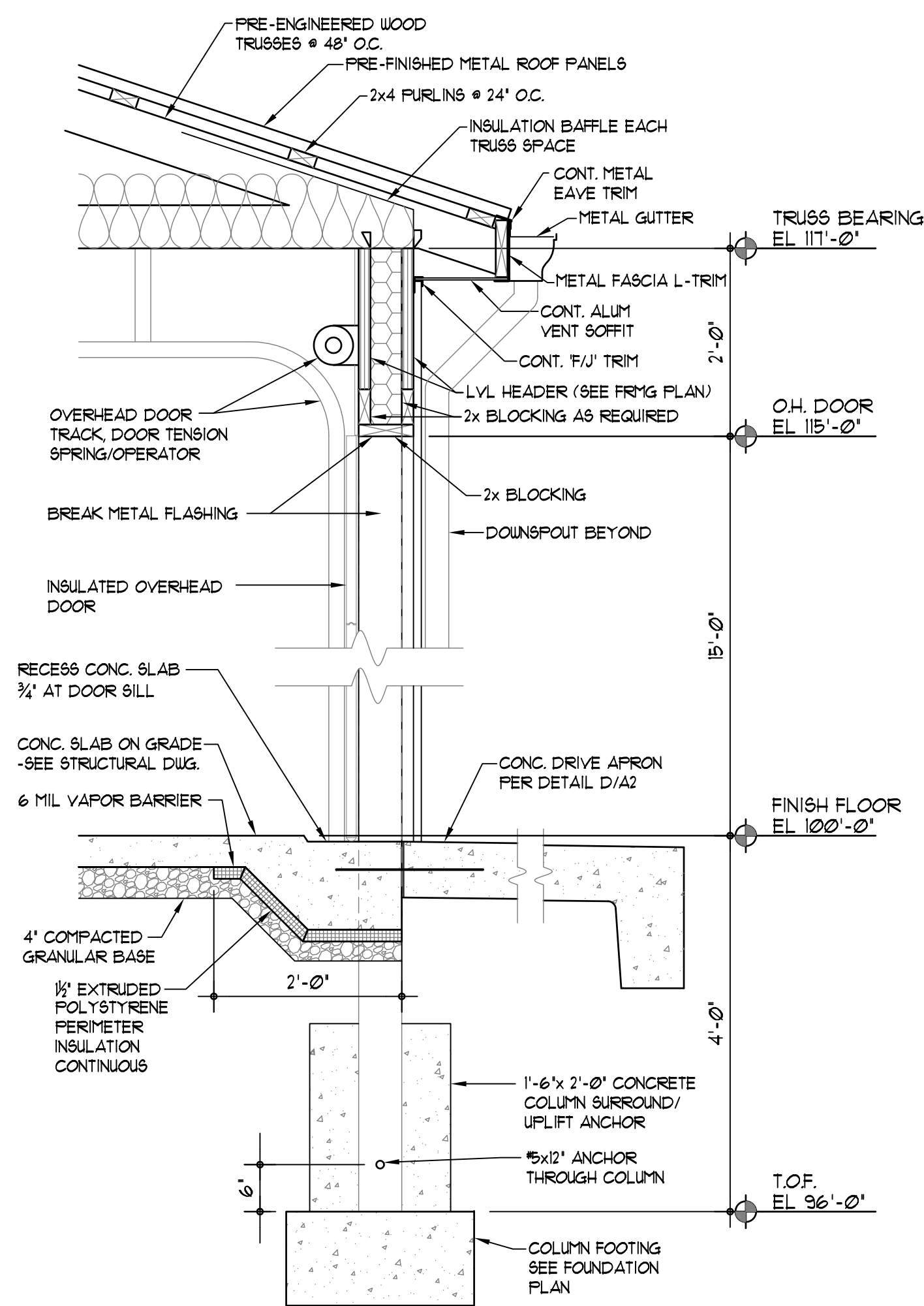
APRIL 27, 2021

zoning submission	☐
design development	☐
construction document	☒
bidding	☐
building permit submission	☒
not for construction	☐
record / archive	☐
other	☐

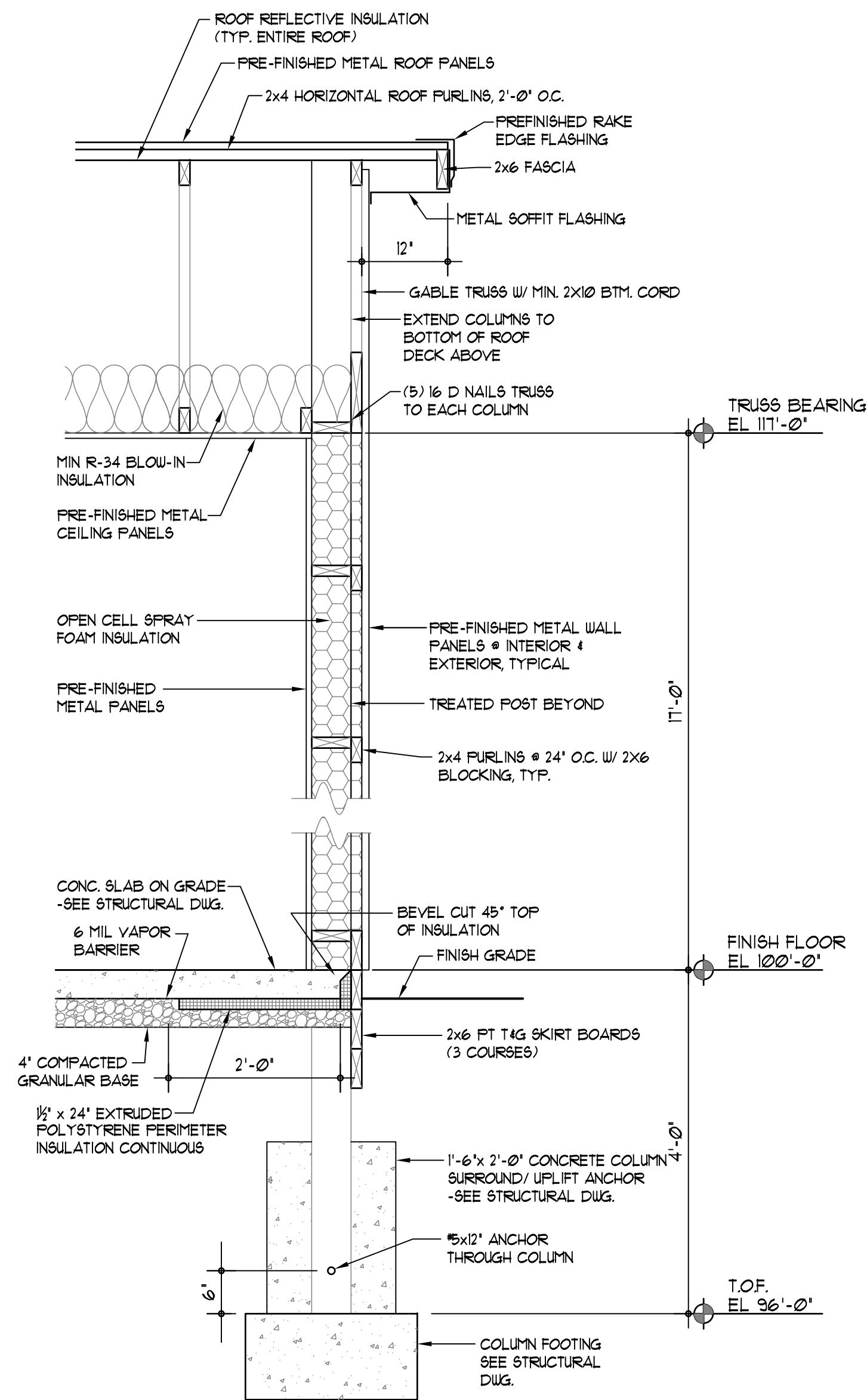
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21m01
drawn
JCS

sheet
A2

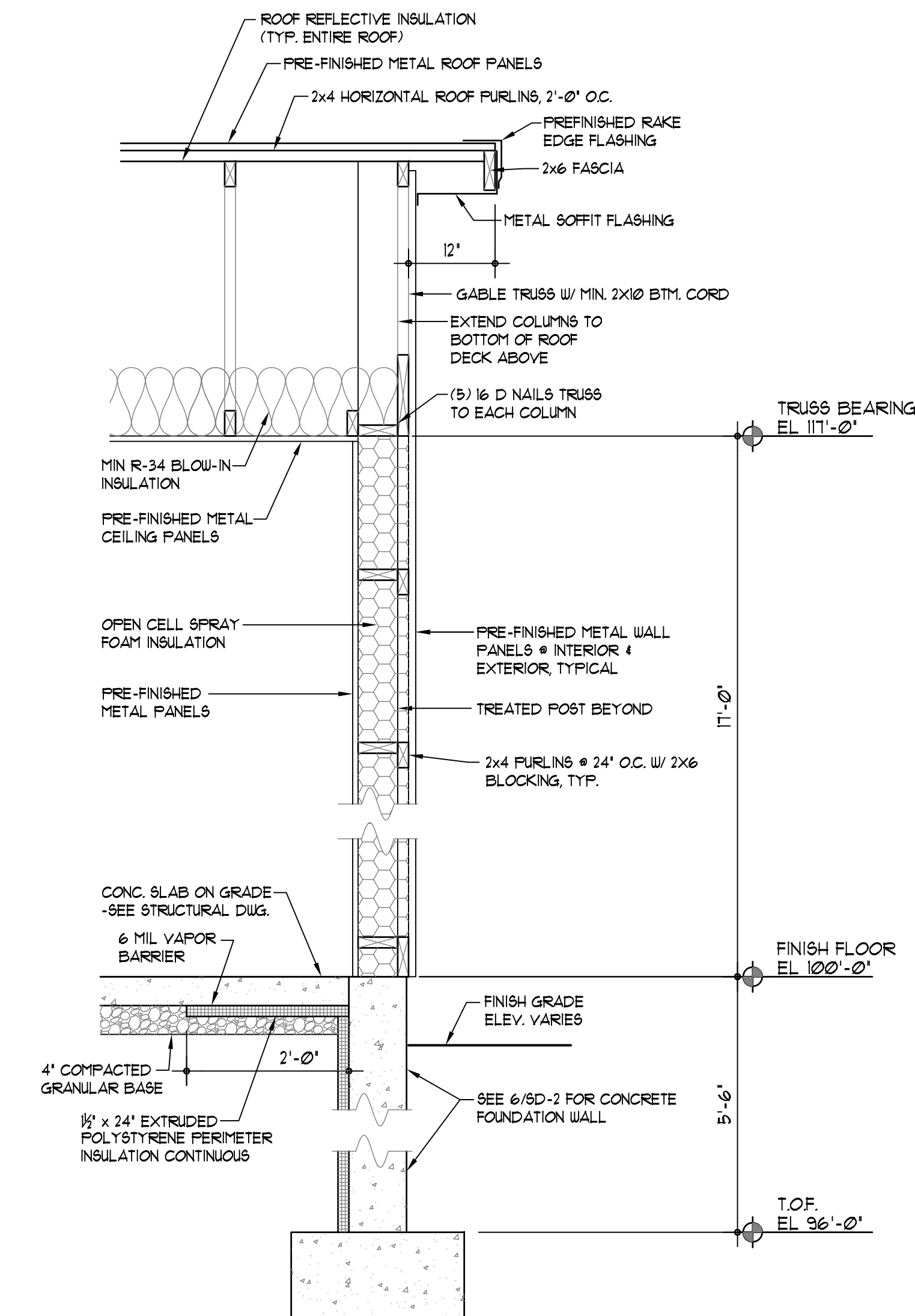




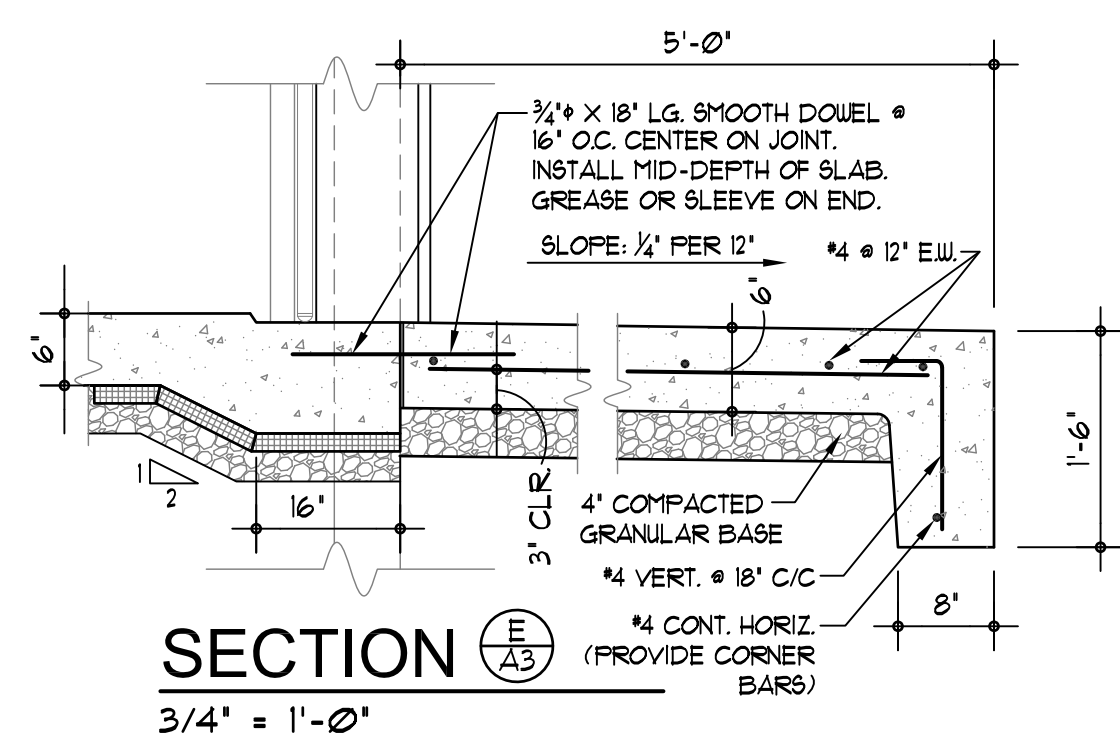
SECTION B/A3
3/4" = 1'-0"



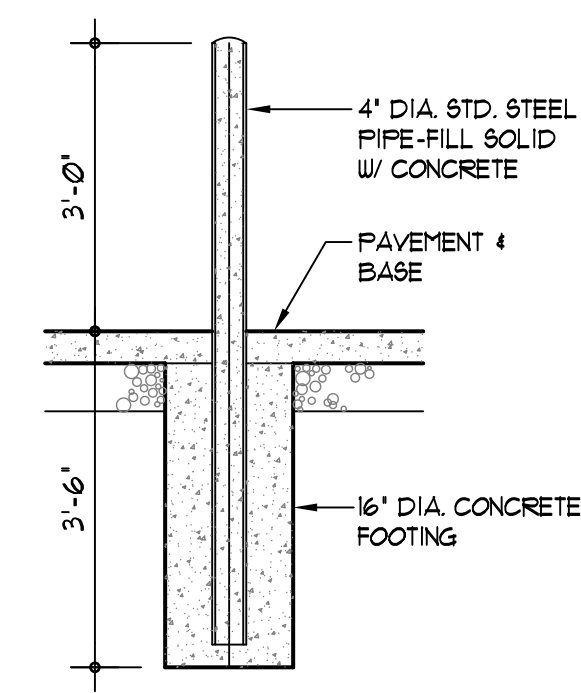
SECTION C/A3
3/4" = 1'-0"



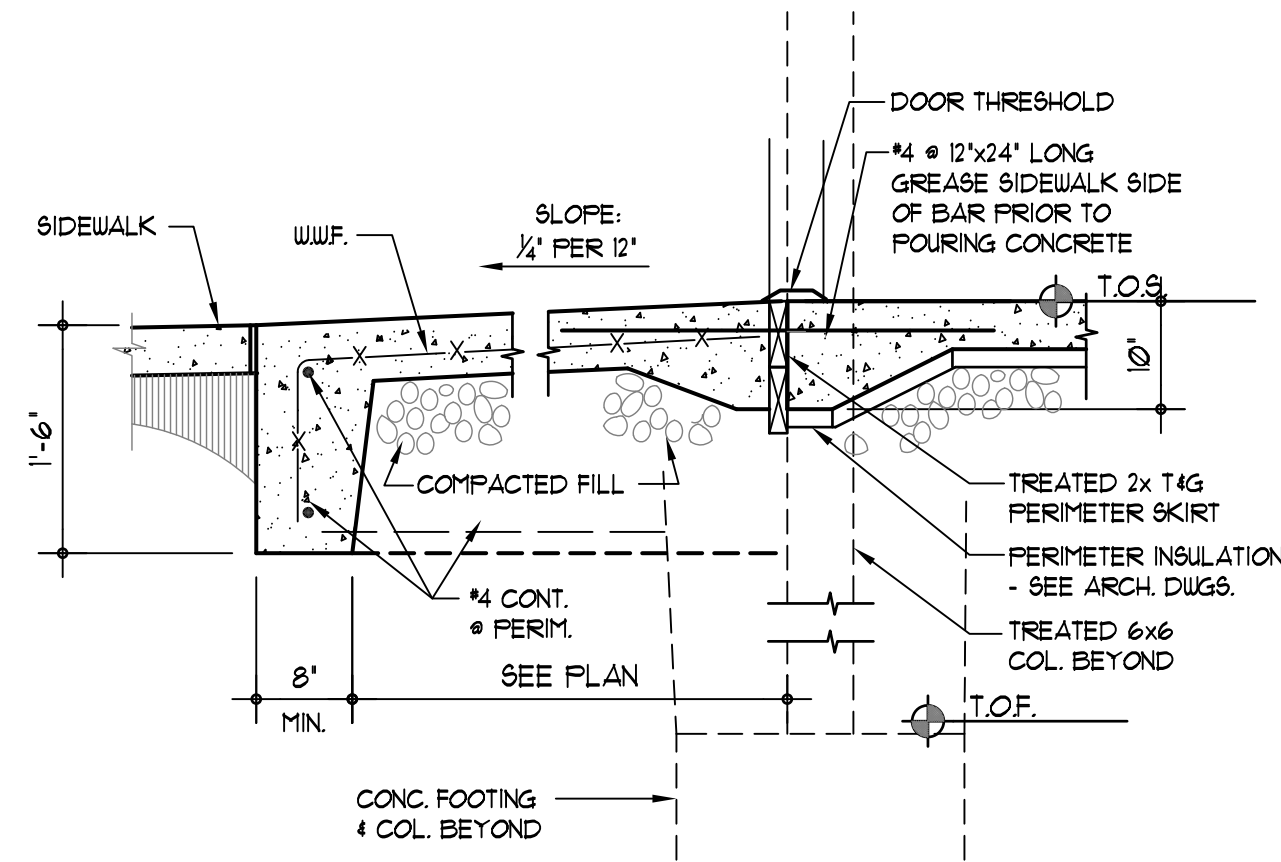
SECTION D/A3
3/4" = 1'-0"



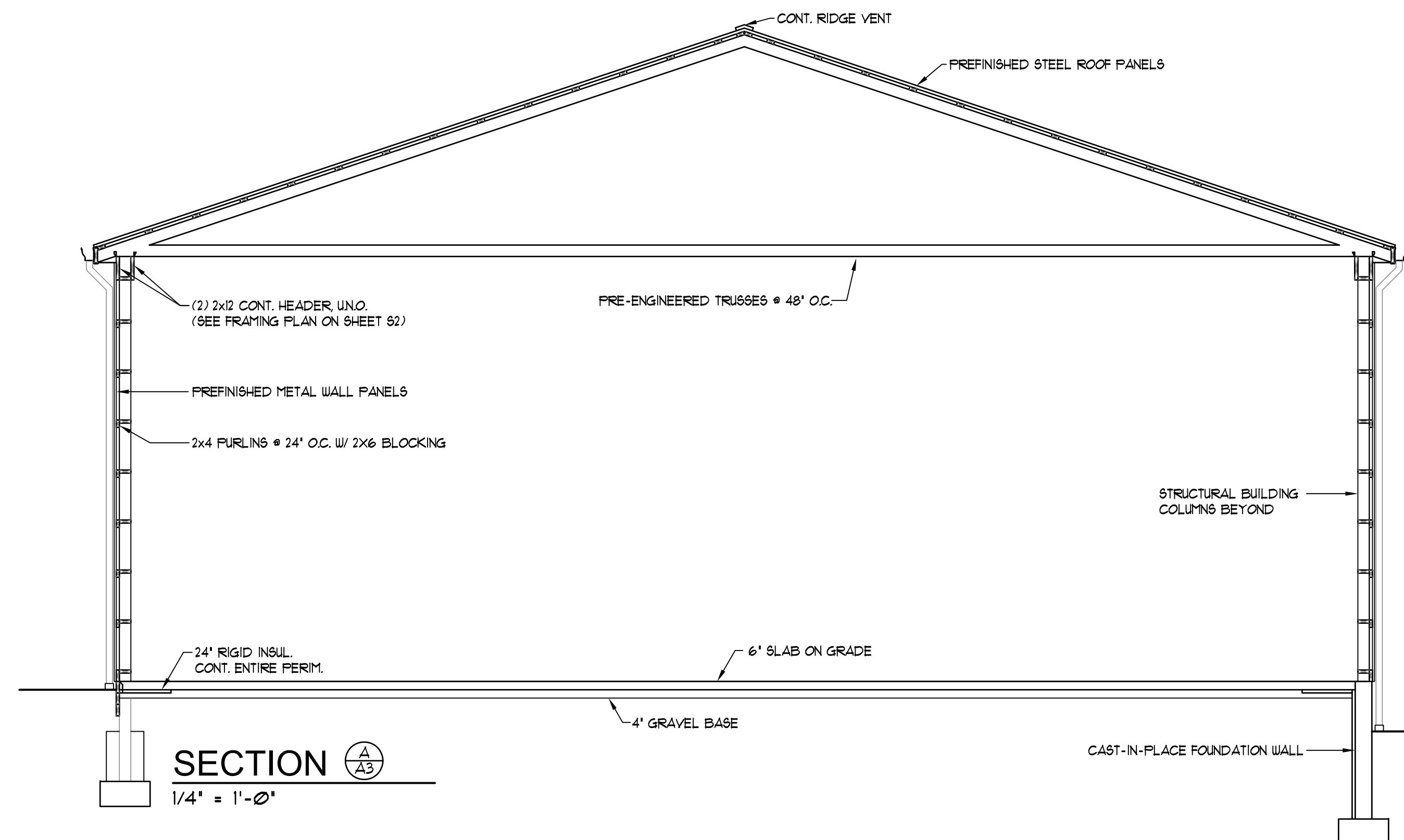
SECTION E/A3
3/4" = 1'-0"



DETAIL F/A3
1/2" = 1'-0"



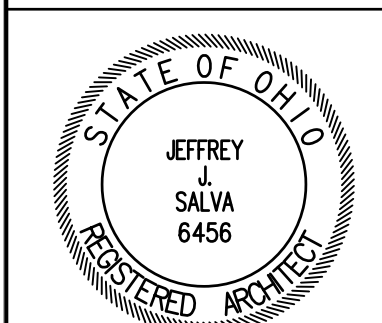
DETAIL G/A3
3/4" = 1'-0"



SECTION A/A3
1/4" = 1'-0"

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APRIL 27, 2021
zoning submission ☐
design development ☐
construction document ☐
bidding ☐
building permit submission ☐
not for construction ☐
record / archive ☐
other ☐
cadfile ☐
21m01-a3
job no.
21m01
drawn
JCS

sheet
A3

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112 Harcourt Rd., Suite 5
Mount Vernon, Ohio 43050

740-397-2282

NEW COMMERCIAL BUILDING FOR:

MOUNT VERNON
OVERHEAD DOOR

810 N. SANDUSKY ST.
MOUNT VERNON, OH 43050

Attachment: 2021-04-27_21m01_INV0HDoor_PermitDWGs (2337 : 2021-B2a-09)

APRIL 27, 2021

zoning submission ☐

design development ☐

construction document ☐

bidding ☐

building permit submission ☐

not for construction ☐

record / archive ☐

other ☐

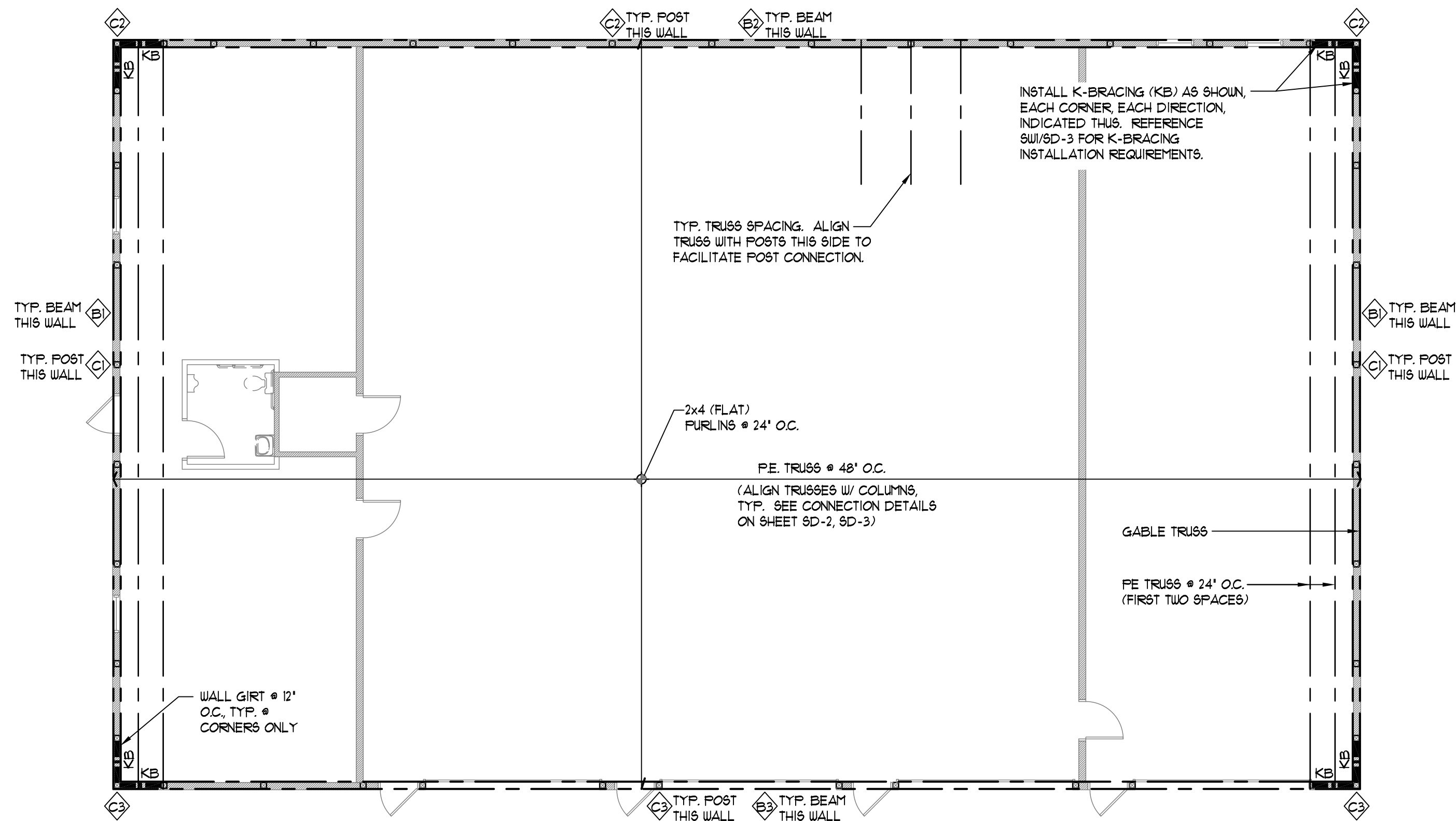
cadfile ☐

21m01-s1
job no.

21m01
drawn

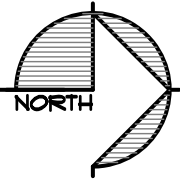
JCS

sheet
S1



ROOF FRAMING PLAN

1/8" = 1'-0"



FOUNDATION LEGEND

INDICATES LOCATION OF WALL FOOTING OR GRADE BEAM. CENTER FOOTING UNDER SUPPORTED WALL, COLUMN, PIER; TYP. U.N.O.

INDICATES LOCATION OF POST PIER FOUNDATION. CENTER FOOTING UNDER POST; TYP. U.N.O.

F? INDICATES FOOTING MARK
P? INDICATES PIER MARK
EL. XX'-X" INDICATES TOP OF FOOTING ELEVATION
SEE SCHEDULES FOR REQUIRED SIZES AND REINFORCING

EL. 0'-0" INDICATES TOP OF CONCRETE SLAB ELEVATION

SL INDICATES SLOPED CONCRETE SLAB. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.

INDICATES LOCATION OF FLOOR SLAB DEPRESSION AND/OR AREA OF SLAB BLOCK OUT. SEE ARCHITECTURAL DRAWINGS FOR SPECIFIC LOCATION AND SIZE; TYP.

STRUCTURAL KEY NOTE MARK. SEE SCHEDULE.

FOUNDATION NOTES

- REFERENCE ELEVATION: TOP OF CONCRETE SLAB ON GRADE = 100'-0".
- VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO PLACING CONCRETE.
- FOUNDATION DESIGN CRITERIA: CONVENTIONAL SPREAD FOOTINGS, PIER FOOTINGS. ALLOWABLE SOIL BEARING PRESSURE = 1.5 KSF
- PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF SOILS CONDITIONS BY GEOTECHNICAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL DE-WATERING SERVICES, AS REQUIRED, TO KEEP WATER OUT OF FOUNDATION EXCAVATIONS.
- CONCRETE SLABS SHALL BE PLACED ON VAPOR BARRIER ON A FREE-DRAINING AGGREGATE BASE. VAPOR BARRIER IS REQUIRED UNDER ENCLOSED OFFICE LOCATIONS ONLY. THE DRAINAGE COURSE SHALL BE A MINIMUM 4" THICK AND BE COMPACTED PER PROJECT SPECIFICATIONS. DO NOT PLACE CONCRETE BEFORE INSPECTION AND APPROVAL OF DRAINAGE COURSE BY SOILS ENGINEER, U.N.O.
- THE CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES WITH SITE CIVIL, ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO THE PLACEMENT OF FOUNDATION CONCRETE. THIS INCLUDES BUT IS NOT LIMITED TO: DOOR OPENINGS IN FOUNDATION WALLS, DRAINS, SLAB SLOPES, SLAB DEPRESSIONS, SLAB BLOCK-OUTS, UNDERGROUND PLUMBING, ELECTRIC, AND HVAC, FOUNDATION SLEEVE REQUIREMENTS, SPRINKLER LINES.
- THE CONSTRUCTION MANAGER IS RESPONSIBLE TO FIELD VERIFY SITE UTILITY LOCATIONS AND ELEVATIONS AND COORDINATE THE FOUNDATION INSTALLATION WITH THE UTILITY INSTALLATIONS. REFER TO TYPICAL DETAILS FOR MINIMUM PROXIMITY REQUIREMENTS.
- REFER TO THE GENERAL STRUCTURAL NOTE SHEET AND TYPICAL DETAIL SHEET FOR ADDITIONAL REQUIREMENTS THAT MAY NOT BE DEPICTED AND NOTED ON THE PLAN AND DETAIL SHEETS.

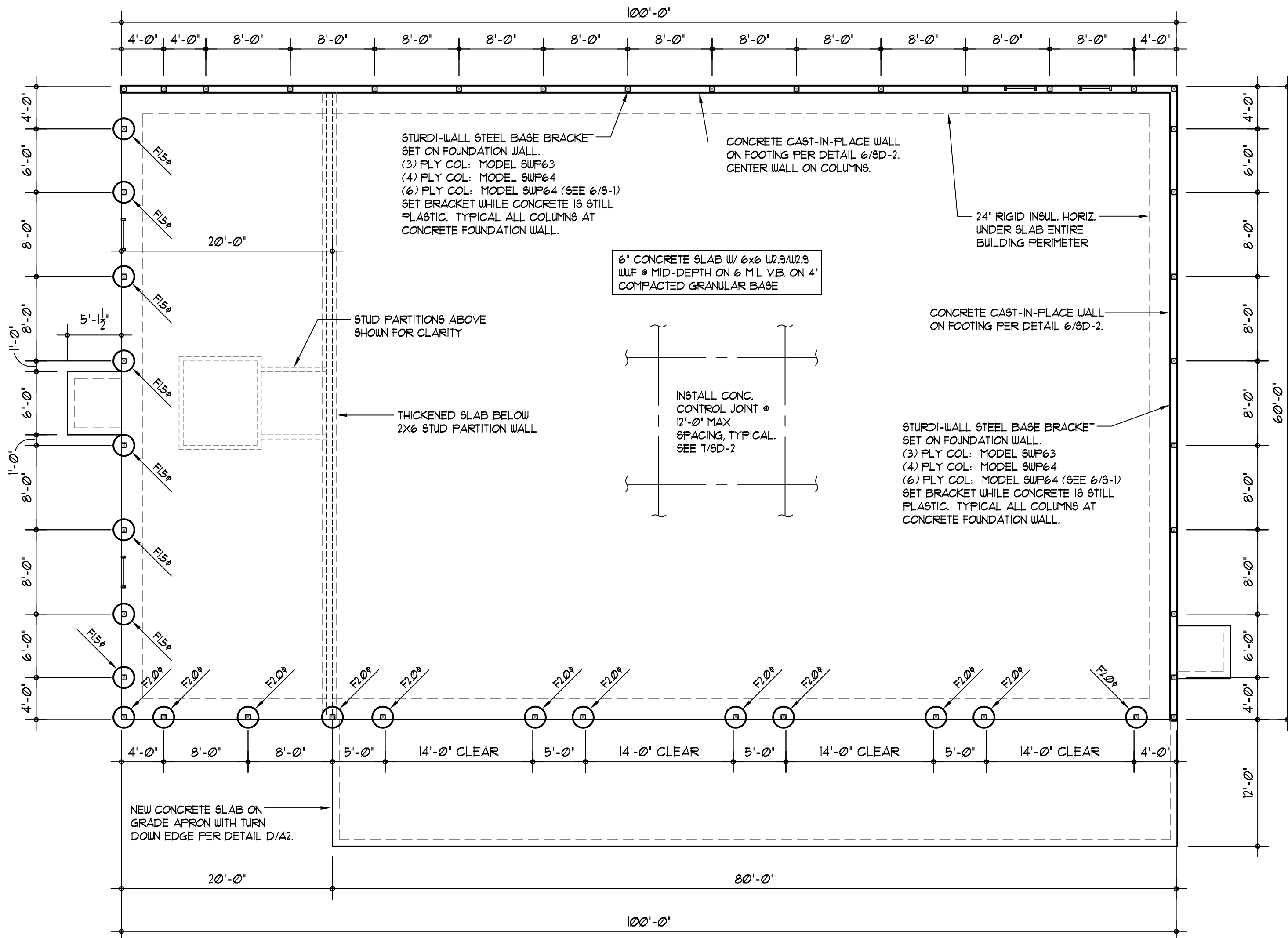
FOOTING SCHEDULE

MARK	SIZE	REINFORCING	NOTES
F15#	1'-6" x 10" DP.	SEE 1/SD-3	T.O.F. = 96'-0"
F20#	2'-0" x 12" DP.	SEE 1/SD-3	T.O.F. = 96'-0"
		--	

NOTES: FTS-? = THICKENED SLAB FOOTING
FM-? = CONT. WALL FOOTING
F? = COLUMN PAD FOOTING
FM-? = MAT FOOTING
T.O.F. = TOP OF FOOTING

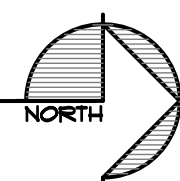
E.W. = EACH WAY
S.W. = SHORT WAY (SHORT DIRECTION)
L.W. = LONG WAY (LONG DIRECTION)
DP. = DEEP (DEPTH OF FOOTING)

WD. = WIDE (WALL FTG.)
SQ. = SQUARE (PAD)
CONT. = CONTINUOUS
BOT. = BOTTOM



FOUNDATION PLAN

1/8" = 1'-0"



STRUCTURAL REVIEW

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ARCHITECTS • ENGINEERS
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KARL L. WALTERS, P.E.
PROJECT: REVERSE ROOFING
DATE: 4/8/2021
JOB NO.: 21-061

STATE OF OHIO
Karl L. Walters
E-60652
PROFESSIONAL ENGINEER
CIVIL

GENERAL STRUCTURAL NOTES

DEFINITION OF RESPONSIBILITIES

- "ARCHITECT/ENGINEER":
THE ARCHITECT OF RECORD AND THE STRUCTURAL ENGINEER OF RECORD.
- "STRUCTURAL ENGINEER OF RECORD" (SER):
THE STRUCTURAL ENGINEER WHO IS LICENSED TO STAMP & SIGN THE STRUCTURAL DOCUMENTS FOR THE PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM, THE STRENGTH AND STABILITY OF THE PRIMARY STRUCTURE IN ITS COMPLETED FORM.
- "SPECIALTY STRUCTURAL ENGINEER" (SSE):
A PROFESSIONAL ENGINEER (PE OR SE), LICENSED IN THE STATE WHERE THE PROJECT IS LOCATED, (TYPICALLY NOT THE SER), WHO PERFORMS SPECIALTY SERVICES FOR SELECTED PORTIONS OF THE PROJECT. THESE PLANS SHALL BE DESIGNED BY THE SSE, WHO SHALL BE RESPONSIBLE FOR THE DESIGN OF THE SPECIALTY STRUCTURAL SYSTEM, THE STRENGTH AND STABILITY OF THE SPECIALTY STRUCTURE IN ITS COMPLETED FORM.
- "GENERAL CONTRACTOR", "GC", "CONTRACTOR", "CONSTRUCTION MANAGER", "CM":
THE BUSINESS ENTITY MANAGING THE CONSTRUCTION OF THE PROJECT AND WHO IS DIRECT CONTRACT WITH THE OWNER OR OWNER'S REPRESENTATIVE. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL RELATED SAFETY STANDARDS.
- "BIDDER-DESIGNED":
COMPONENTS OF THE STRUCTURE THAT REQUIRE THE GENERAL CONTRACTOR, SUBCONTRACTOR, OR SUPPLIER WHO IS RESPONSIBLE FOR DESIGN, FABRICATION AND INSTALLATION OF SPECIALTY-ENGINEERED ELEMENTS IDENTIFIED IN THE CONTRACT DOCUMENTS TO RETAIN THE SERVICES OF AN SSE. SUBMITTALS OF "BIDDER-DESIGNED" ELEMENTS SHALL BE STAMPED AND SIGNED BY THE SSE.
- "IR-C":
INTERNATIONAL RESIDENTIAL CODE.

BIDDER-DESIGNED ELEMENTS

- SUBMIT "BIDDER-DESIGNED" DEFERRED SUBMITTALS TO THE ARCHITECT AND SER FOR REVIEW PRIOR TO SUBMISSION TO THE CITY FOR APPROVAL.
- DESIGN OF PREFABRICATED, "BIDDER DESIGNED", MANUFACTURED, PRE-ENGINEERED, OR OTHER FABRICATED PROJECT SHALL BE COMPLY WITH THE FOLLOWING REQUIREMENTS:
 - DESIGN CONSIDERS THE LOAD PATHS AND FOUNDATION LOCATIONS DEFINED ON THE CONTRACT DRAWINGS BY THE SER. DESIGN CONSIDERS THERMAL DEAD, LIVE, WIND AND SEISMIC LOADS IN COMBINATIONS REQUIRED BY GOVERNING CODE. DESIGN WITHIN THE DEFLECTION LIMITS NOTED HEREIN AS SPECIFIED AND REFERENCED IN THE GOVERNING CODE.
 - DESIGN SHALL CONFORM TO THE SPECIFICATIONS AND REFERENCE STANDARDS OF THE GOVERNING CODE. SUBMITTAL SHALL INCLUDE:
 - CALCULATIONS PREPARED, STAMPED AND SIGNED BY THE SSE DEMONSTRATING CODE CONFORMANCE.
 - ENGINEERED COMPONENT DESIGN DRAWINGS ARE PREPARED, STAMPED AND SIGNED BY THE SSE.
 - PROVIDE TECHNICAL INFORMATION AND MANUFACTURER'S WRITTEN REQUIREMENTS ADAPTS APPROVALS AS APPLICABLE.
 - SEE SER HAVING TO THE ARCHITECT/ENGINEER, A REQUEST TO UTILIZE RELEVANT ALTERNATE DESIGN CRITERIA OF SIMILAR NATURE AND GENERALLY EQUIVALENT TO THAT WHICH IS USED BY THE CODE AND ACCEPTABLE TO THE CITY AUTHORITY JURISDICTION. SUBMIT ADEQUATE DOCUMENTATION OF DESIGN.

VERTICAL/LIMIT (L IS SPAN LENGTH, INCHES)
 ROOF MEMBERS, DEAD-LIVE OR SNOW OR WIND, TOTAL LOAD (TL) DEFLECTION
 ROOF, LIVE OR SNOW OR WIND LOAD (RL)
 FLOOR MEMBERS, TOTAL LOAD (TL) DEFLECTION
 FLOOR, LIVE OR SNOW OR WIND LOAD (FL)
 OPERABLE PARTITION SUPPORT MEMBERS
 L/240
 L/360
 L/480
 L/480
 L/600 OR 1/4" MAXIMUM

HORIZONTAL/LIMIT AND FOOTNOTE
 MEMBERS SUPPORTING BRITTLE FINISHES
 MEMBERS SUPPORTING FLEXIBLE FINISHES
 MEMBERS SUPPORTING MASONRY
 L/240 (1)
 L/600 (1)
 L/600 OR 1/4" MAXIMUM

- WIND LOAD IS REDUCIBLE TO 0.7 TIMES THE COMPONENT AND CLADDING LOADS PER TABLE 1604.3 FOOTNOTE F.
- GENERAL CONTRACTOR'S PRIORITY REVIEW:
THE GC IS RESPONSIBLE TO THOROUGHLY REVIEW THE BIDDER-DESIGNED SUBMITTAL (SHOP DRAWINGS) PRIOR TO SUBMITTING TO THE ARCHITECT AND ENGINEER OF RECORD. THE CONTRACTOR IS RESPONSIBLE TO STAMP THE SUBMITTAL INDICATING COMPLETION OF REVIEW AND ACTION OF REVIEW.

GENERAL NOTES

- GENERAL CONDITIONS:
 - THE GENERAL STRUCTURAL NOTES ARE INTENDED TO AUGMENT THE PROJECT DRAWINGS AND SPECIFICATIONS, AND MAY SPECIFY STRUCTURAL CONSTRUCTION REQUIREMENTS NOT SHOWN ON THE PROJECT DRAWINGS OR SPECIFICATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO READ AND UNDERSTAND THE GENERAL STRUCTURAL NOTES PRIOR TO START OF CONSTRUCTION.
 - THE STRUCTURAL DRAWINGS ARE INTENDED TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, AND CIVIL (SIT) DRAWINGS. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE ALL INFORMATION RELATED TO STRUCTURAL WORK AND SHOP DRAWINGS. THIS INCLUDES, BUT IS NOT LIMITED TO: DIMENSIONS, COLUMN LOCATIONS, OPENING LOCATIONS AND ELEVATIONS, MECHANICAL COMPONENTS LOCATIONS IN CONCRETE, AND THE LOCATION OF THE MECHANICAL EQUIPMENT. WHERE A DETAIL OR NOTE IS SHOWN FOR ONE CONDITION ON THE DRAWINGS, IT SHALL APPLY FOR ALL LIKE OR SIMILAR CONDITIONS EVEN THOUGH NOT SPECIFICALLY MARKED ON THE DRAWINGS.
 - THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF THE WORK. FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, FOR SELECTING FABRICATION PROCESSES, FOR TECHNIQUES OF ASSEMBLY, AND FOR PERFORMING WORK IN A SAFE AND SECURE MANNER.
 - IN CASE OF DISCREPANCIES BETWEEN THE GENERAL STRUCTURAL NOTES, SPECIFICATIONS, DRAWINGS, OR REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT, THE CONTRACTOR WILL BE REQUIRED TO HAVE THE DISCREPANCY CORRECTED AT THE CONTRACTOR'S EXPENSE. WHERE THE CONTRACTOR HAS NO KNOWLEDGE OF THE DISCREPANCY, THE CONTRACTOR REQUESTS A DECISION FROM THE ARCHITECT/ENGINEER AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT OR DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADDITIONAL COST ADJUSTMENT TO THE CONTRACT PRICE.
 - THE CONTRACTOR SHALL NOT STORE CONSTRUCTION MATERIALS OR PERFORM CONSTRUCTION OPERATIONS IN A MANNER OR METHOD THAT WILL EXCEED THE LOADS SPECIFIED IN THE DESIGN CRITERIA AND LOADS SECTION OF THE NOTES. THE CONTRACTOR IS RESPONSIBLE TO BE IN COMPLIANCE WITH ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
 - THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE MEANS AND METHODS, ERECTION PROCEDURE AND SEQUENCE, AS REQUIRED TO INSURE THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF ANY SHORING, SHEETING, TEMPORARY BRACING, GUYS OR TIEDOWNS WHICH MUST BE NECESSARY. SUCH MATERIAL SHALL REMAIN IN PLACE UNTIL THE CONTRACTOR'S TEMPORARY BRACING OR TIEDOWNS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE BRACING AND TIEDOWNS WHICH MUST BE NECESSARY. SUCH MATERIAL SHALL REMAIN IN PLACE UNTIL THE CONTRACTOR'S TEMPORARY BRACING OR TIEDOWNS ARE REMOVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF THE BRACING AND TIEDOWNS WHICH MUST BE NECESSARY. SUCH MATERIAL SHALL REMAIN IN PLACE UNTIL THE CONTRACTOR'S TEMPORARY BRACING OR TIEDOWNS ARE REMOVED.
 - WHEN THE CONTRACTOR FAILS TO COMPLY WITH ANY PORTION OF THE STRUCTURE IN ACCORDANCE WITH THE DRAWINGS AND NOTES, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE REMEDIATION OF THE DEFECT AND ALL RELATED COSTS INCLUDING ENGINEERING SERVICES. WHEN A DEFECT IS FIRST IDENTIFIED, IT SHALL BE BROUGHT TO THE ARCHITECT'S ATTENTION.
 - THE DRAWINGS ARE NOT TO BE SCALED FOR CONSTRUCTION PURPOSES.
 - REFER TO ARCHITECTURAL DRAWINGS FOR WALL LOCATIONS, WALL TYPE, ELEVATIONS, AND BUILDING LAYOUT.
 - THE NOTES ON THE SOLE PROJECT TYPE AND LOCATION FOR ALL BUILDING MATERIALS AND ASSOCIATES, INC. EXPRESSLY RESERVES ITS COPYRIGHT AND OTHER PROPERTY RIGHTS IN THIS PLAN, NOTES, AND DRAWINGS. THESE NOTES, PLANS, AND DRAWINGS ARE NOT TO BE REPRODUCED OR COPIED IN ANY FORM OR MANNER.

SOIL AND FOUNDATION PREPARATION

- ALL EXCAVATIONS, GRADING, CONCRETE, ETC., SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE BUILDING CODE AND REFERENCE STANDARDS.
- DESIGN OF EXTERIOR FOUNDATIONS IS BASED ON A MINIMUM FROST DEPTH OF 36" BELOW FINISH GRADE. ALL EXTERIOR AND PERIMETER FOUNDATIONS SHALL BEAR BELOW THIS MINIMUM PROTECTION DEPTH, U.N.O.
- FOUNDATIONS ARE DESIGNED TO BEAR ON FIRM UNDISTURBED EARTH OF APPROVED CONTROLLED FILL. NO FOOTING SHALL BEAR DIRECTLY ON ROCK (UNLESS SPECIFICALLY DETAILED OR NOTED).
- FOUNDATION CONCRETE SHALL BE PLACED THE SAME DAY THE EXCAVATION IS MADE WHEN FEASIBLE. WHERE FOUNDATION EXCAVATIONS MUST REMAIN OPEN OR EXPOSED FOR A PERIOD OF TIME, CARE SHOULD BE TAKEN TO PROTECT THE EXPOSED SOILS FROM BEING DISTURBED, SATURATED, OR DRIED OUT PRIOR TO THE PLACEMENT OF SELECT FILL OR CONCRETE.
- CONCRETE SLABS SHALL BE PLACED ON A VAPOR BARRIER OR A FINE-DRAINING AGGREGATE BASE. THE DRAINAGE COURSE SHALL BE A MINIMUM 4" THICK (U.N.O.) AND BE COMPACTED TO THE PROPER DENSITY.
- THE CONTRACTOR SHALL LOCATE AND VERIFY THE FOLLOWING WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS PRIOR TO THE PLACEMENT OF CONCRETE. ALL DROD OPENINGS IN FOUNDATION WALLS, DRAINS, SLAB SLOPES, BACKCUTS FOR POLES, SPAS, REFRIGERATORS, AND HVAC. ALL DUCT CHASES.
- CONCRETE CURBS AND LOCATIONS SHALL BE PER ARCHITECTURAL DRAWINGS.
- FOUNDATIONS SHALL NOT BE PLACED OVER UTILITY LINES OR UTILITY TRUNK EXCAVATIONS UNLESS SPECIFICALLY DETAILED OTHERWISE. FOUNDATIONS SHALL BE STEPPED DOWN IN LOCATIONS SO THAT UTILITY LINES PASS ABOVE FOOTING ELEVATION. REFERENCE TYPICAL DETAIL SECTION OF DRAWINGS FOR FOOTING REQUIREMENTS ADJACENT TO UTILITY LINES. "UTILITY" DESIGNATES ANY UNDERGROUND ELECTRIC, GAS, WATER, OR SANITARY LINE.

QUALITY CONTROL - REQUIRED SPECIAL INSPECTIONS AND TESTING

- GENERAL:
 - THE SPECIAL INSPECTOR SHALL USE ONLY BUILDING DIVISION APPROVED DRAWINGS.
 - ONLY THE TESTING AGENCY, SPECIAL INSPECTOR SHOULD TAKE SAMPLES AND TRANSPORT THEM TO THEIR LABORATORY.
 - COPIES OF ALL LABORATORY REPORTS AND INSPECTIONS ARE TO BE SENT DIRECTLY TO THE BUILDING DEPARTMENT / DIVISION ON A WEEKLY BASIS OR AFTER THE INSPECTIONS ARE PERFORMED. COPIES SHALL ALSO BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD.
 - ALL NON-CONFORMING INSTALLATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION.
 - THE SPECIAL INSPECTOR IS RESPONSIBLE TO THE GOVERNING BUILDING OFFICIAL FOR THE NOTIFICATION OF ANY CONCERNS AND/OR PROBLEMS ENCOUNTERED. THE SPECIAL INSPECTOR SHALL FURNISH/COPY ALL REPORTS AND PROJECT CORRESPONDENCE TO THE GOVERNING BUILDING DIVISION, PROJECT CONSTRUCTION MANAGER, PROJECT ARCHITECT, PROJECT ENGINEER.
 - THE CONSTRUCTION MANAGER, ON BEHALF OF THE OWNER, SHALL COORDINATE AND PROVIDE ALL INSPECTIONS AND TESTING, UNLESS STATED OTHERWISE IN THE CONTRACT DOCUMENTS.

SPECIAL INSPECTIONS	APPLICABILITY	FREQUENCY	REFERENCE STANDARD
SOILS (IRC 1704.2)	YES	PERIODIC	BUILDING CODE
VERIFY MATERIALS BELOW FOOTINGS ADEQUATE TO DESIGN BEARING	YES	PERIODIC	BUILDING CODE
VERIFY DEPTH OF EXCAVATIONS, PROPER MATERIALS	YES	PERIODIC	BUILDING CODE
CLASSIFICATION AND TESTING OF CONTROLLED FILL	YES	PERIODIC	BUILDING CODE
VERIFY MATERIALS, DENSITIES, LIFT THICKNESS OF CONTROLLED FILL	YES	PERIODIC	BUILDING CODE
BEFORE CONTROLLED FILL, VERIFY SITE PREP	NO		

DESIGN CRITERIA AND LOADS

GOVERNING BUILDING CODE: 2017 OHIO BUILDING CODE

DESIGN LOADS:
FLOOR LIVE LOADS:

WAREHOUSE - HEAVY STORAGE 250 PSF

DESIGN ROOF LIVE LOADS (MINIMUM): 20 PSF

WIND LOADS: ULTIMATE DESIGN WIND SPEED: 115 MPH

NOMINAL DESIGN WIND SPEED: 89.1 MPH

RISK CATEGORY: C

EXPOSURE CATEGORY: C

ENCLOSURE CLASSIFICATION: ENCLOSED

INTERNAL PRESSURE COEFFICIENT (Cp): 0.18 +/- 0.85

DIRECTIONALITY (Kd): 0.0

ROOF SNOW LOADS: DESIGN UNIFORM ROOF SNOW LOAD: 20 PSF

FLAT-ROOF SNOW LOAD (Ps): 16.8 PSF

BALANCED SNOW LOAD (Ps): 16.8 PSF

GROUND SNOW LOAD (Ps): 20.0 PSF

IMPORTANCE FACTOR (I): 1.0

SNOW EXPOSURE FACTOR (Ce): 1.0

THERMAL FACTOR (Ct): 1.2

SLIPPERY ROOF FACTOR (Cs): 1.0

DRIFT SURCHARGE LOAD (Pd): 31.7 PSF

WIDTH OF SNOW DRIFT (W): 7.64 FT.

SEISMIC DESIGN CRITERIA: RISK CATEGORY: II

IMPORTANCE FACTOR (I): 1.0

MAPPED SPECTRAL RESPONSE (Ss): 11.202g

WAPPED SPECTRAL RESPONSE (S1): 5.702g

SITE SOIL CLASS: D

SPECTRAL RESPONSE COEFF. (Sa): 0.119

SPECTRAL RESPONSE COEFF. (Sd): 0.091

SEISMIC DESIGN CATEGORY: B

LIGHT FRAME SYSTEM

WOOD WITH WOOD SHEAR PANEL

DESIGN BASE SHEAR (V): 0.018W

SEISMIC RESPONSE COEFF. (R): 0.018

RESPONSE MODIFICATION FACTOR (R): 6.5

ANALYSIS PROCEDURE: EQUIV. LATERAL FORCE

OTHER LOADS: INTERIOR PARTITIONS (1607.13) 5 PSF (HORIZ.)

CEILING PARTITIONS (1607.13) 50 PSF (200#)

SOIL BEARING PRESSURE: 1500 PSF

ADDITIONAL LOADS: ADDITIONAL DESIGN LOADS INDICATED ON STRUCTURAL DRAWINGS SHALL BE IDENTIFIED AS FOLLOWS:

DL = DEAD LOAD EL = SEISMIC LOAD

LL = DEAD LOAD SL = ROOF LIVE LOAD

WL = DEAD LOAD S = SNOW LOAD

CAST-IN-PLACE CONCRETE

- REFERENCE STANDARDS: REFER TO PROJECT SPECIFICATIONS. CONFORM TO:
 - ACI 301-10 "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
 - IBC CHAPTER 19-CONCRETE
 - ACI 318-08/318M-11
 - ACI 117-10
- FIELD REFERENCE: THE CONTRACTOR SHALL KEEP A COPY OF ACI 301-10 AND REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301)" WITH SELECTED ACI AND ASTM REFERENCES".
- CONCRETE MIXTURES: CONFORM TO ACI 301 SECTION 4 "CONCRETE MIXTURES" AND IBC SECTION 1904.3.
- MATERIALS: CONFORM TO ACI 301 SECTION 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTITIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.
- SUBMITTALS: PROVIDE ALL SUBMITS REQUIRED BY ACI 301 SECTION 4.2.1. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW. SUBSTANTIATING STRENGTH RESULTS FROM PAST TESTS SHALL NOT BE OLDER THAN 12 MONTHS PER ACI 318 SECTION 5.3. REFER TO PROJECT SPECIFICATION MANUAL FOR ADDITIONAL SUBMITTAL REQUIREMENTS.

TABLE OF MIX DESIGN REQUIREMENTS

CLASS	INTENDED USE OF CONCRETE	F'c (28 DAY)	MINIMUM CEMENTITIOUS CONTENT	W/C RATIO	AIR CONTENT	MAX AGGREGATE SIZE	POLY FIBERS
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I FOOTINGS, INTERIOR PIERS 3000 470#/C.Y. 0.53 2% - 4% 1" ---

II INTERIOR SLABS 3500 517#/C.Y. 0.53 - 3/4" YES SEE SCHED

III EXTERIOR CONCRETE: SLABS ON GRADE, PIERS, WALLS, SITE CONCRETE. ALL CONCRETE EXPOSED TO WEATHER. 4000 564#/C.Y. 0.40 5% - 7% 3/4" YES SEE SCHED

IV BACKFILL BELOW FOOTINGS 1500 376#/C.Y. --- ---

TABLE OF MIX DESIGN REQUIREMENTS NOTES:

- W/C RATIO WATER-CEMENTITIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTITIOUS MATERIALS. MAXIMUM RATIOS ARE CONTROLLED BY STRENGTH NOTED IN THE TABLE OF MIX DESIGN REQUIREMENTS AND DURABILITY REQUIREMENTS GIVEN IN ACI 318 SECTION 4.3.
- CEMENTITIOUS MATERIALS:
 - THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 318 SECTIONS 4.3.1 AND 4.4.2. A MAXIMUM AMOUNT OF FLY ASH SHALL BE 25% OF TOTAL CEMENTITIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY THE SER.
 - CEMENTITIOUS MATERIALS SHALL CONFORM TO THE RELEVANT ASTM STANDARDS LISTED IN ACI 318 SECTION 4.3.1.
- AIR CONTENT: CONFORM TO ACI 318 SECTION 4.4.1. MINIMUM STANDARDS FOR EXPOSURE CLASS ARE NOTED IN THE TABLE. IF FREEZING AND THAWING WITH AIR CONTENT SHALL BE REQUIRED. APPROVAL OF THE SER.
- CONCRETE SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. TOLERANCE IS ±1%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT. AGGREGATES SHALL CONFORM TO ACI 318 SECTION 4.3.1.
- CHLORIDE CONTENT: CONFORM TO ACI 318 SECTION 4.3.1.
- NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE PLACED AT AMBIENT TEMPERATURES BELOW 50°F AT THE CONTRACTOR'S OPTION.
- ACI 318, SECTION 4 EXPOSURE CLASSES SHALL BE ASSIGNED TO BE FO, SO, PO, AND CO UNLESS DIFFERENT EXPOSURE CLASSES ARE LISTED IN THE TABLE OF MIX DESIGN REQUIREMENTS THAT MODIFY THESE BASE REQUIREMENTS.
- SHRINKAGE LIMIT: CONCRETE USED IN ELEVATED SLABS AND BEAMS SHALL HAVE A SHRINKAGE LIMIT OF .035% AT 28 DAYS MEASURED IN ACCORDANCE WITH ASTM C157. SUBMIT LABORATORY TEST RESULTS TO SER FOR APPROVAL PRIOR TO CONSTRUCTION.
- MEASURING, MIXING AND DELIVERY: CONFORM TO ACI 301 SECTION 4.3.
- HANDLING: PLACING, CONSTRUCTING AND CURING: CONFORM TO ACI 301 SECTION 5. IN ADDITION, HOT WEATHER CONCRETE SHALL CONFORM TO ACI 301-10B AND COLD WEATHER CONCRETE SHALL CONFORM TO ACI 308-11.

CONCRETE CURBS AND LOCATIONS SHALL BE PER ARCHITECTURAL DRAWINGS.

FOUNDATIONS SHALL NOT BE PLACED OVER UTILITY LINES OR UTILITY TRUNK EXCAVATIONS UNLESS SPECIFICALLY DETAILED OTHERWISE.

FOUNDATIONS SHALL BE STEPPED DOWN IN LOCATIONS SO THAT UTILITY LINES PASS ABOVE FOOTING ELEVATION.

REFERENCE TYPICAL DETAIL SECTION OF DRAWINGS FOR FOOTING REQUIREMENTS ADJACENT TO UTILITY LINES.

"UTILITY" DESIGNATES ANY UNDERGROUND ELECTRIC, GAS, WATER, OR SANITARY LINE.

QUALITY CONTROL - REQUIRED SPECIAL INSPECTIONS AND TESTING

GENERAL: THE SPECIAL INSPECTOR SHALL USE ONLY BUILDING DIVISION APPROVED DRAWINGS.

ONLY THE TESTING AGENCY, SPECIAL INSPECTOR SHOULD TAKE SAMPLES AND TRANSPORT THEM TO THEIR LABORATORY.

COPIES OF ALL LABORATORY REPORTS AND INSPECTIONS ARE TO BE SENT DIRECTLY TO THE BUILDING DEPARTMENT / DIVISION ON A WEEKLY BASIS OR AFTER THE INSPECTIONS ARE PERFORMED. COPIES SHALL ALSO BE SUBMITTED TO THE ARCHITECT AND ENGINEER OF RECORD.

ALL NON-CONFORMING INSTALLATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION.

THE SPECIAL INSPECTOR IS RESPONSIBLE TO THE GOVERNING BUILDING OFFICIAL FOR THE NOTIFICATION OF ANY CONCERNS AND/OR PROBLEMS ENCOUNTERED. THE SPECIAL INSPECTOR SHALL FURNISH/COPY ALL REPORTS AND PROJECT CORRESPONDENCE TO THE GOVERNING BUILDING DIVISION, PROJECT CONSTRUCTION MANAGER, PROJECT ARCHITECT, PROJECT ENGINEER.

THE CONSTRUCTION MANAGER, ON BEHALF OF THE OWNER, SHALL COORDINATE AND PROVIDE ALL INSPECTIONS AND TESTING, UNLESS STATED OTHERWISE IN THE CONTRACT DOCUMENTS.

SPECIAL INSPECTIONS: APPLICABILITY FREQUENCY REFERENCE STANDARD

SOILS (IRC 1704.2) YES PERIODIC BUILDING CODE

VERIFY MATERIALS BELOW FOOTINGS ADEQUATE TO DESIGN BEARING YES PERIODIC BUILDING CODE

VERIFY DEPTH OF EXCAVATIONS, PROPER MATERIALS YES PERIODIC BUILDING CODE

CLASSIFICATION AND TESTING OF CONTROLLED FILL YES PERIODIC BUILDING CODE

VERIFY MATERIALS, DENSITIES, LIFT THICKNESS OF CONTROLLED FILL YES PERIODIC BUILDING CODE

BEFORE CONTROLLED FILL, VERIFY SITE PREP NO

CONCRETE REINFORCEMENT

- REFERENCE STANDARDS: REFER TO PROJECT SPECIFICATIONS. CONFORM TO:
 - ACI 301-10 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE", SECTION 3 "REINFORCEMENT AND REINFORCEMENT SUPPORTS".
 - ACI SP-66-04 "ACI DETAILING MANUAL" INCLUDING ACI 315-99 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT".
 - CSI MSP-09, 28TH EDITION, "MANUAL OF STANDARD PRACTICE".
 - ANSI/AWS D14 "STRUCTURAL WELDING CODE - REINFORCING STEEL".
 - IBC CHAPTER 19-CONCRETE.
 - ACI 318-11 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE AND COMMENTARY".
 - ACI 111-11 "STANDARD SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS".
- SUBMITTALS: CONFORM TO ACI 301 SECTION 3.1.1 "SUBMITTALS, DATA AND DRAWINGS." SUBMIT PLACING DRAWINGS SHOWING FABRICATION DIMENSIONS AND LOCATIONS FOR PLACEMENT OF REINFORCEMENT AND REINFORCEMENT SUPPORTS.
- MATERIALS:
 - REINFORCING BARS: ASTM A615, GRADE 60, DEFORMED BARS.
 - WELDABLE REINFORCING BARS: ASTM A706, GRADE 60, DEFORMED BARS.
 - SMOOTH WELDED WIRE FABRIC: ASTM A1024, RECOR OR EQUIVALENT.
 - WELDED WIRE FABRIC: ASTM A497
 - BAR SUPPORTS: CSI MSP-09, CHAPTER 3 "BAR SUPPORTS".
 - STUD BARS: 18 GAGE OR HEAVIER, BLACK ANNEALED.
 - HEADED DEFORMED BARS: ASTM A706, GRADE 60, DEFORMED BARS.
 - FABRICATION: CONFORM TO ACI 301, SECTION 3.2.2, "FABRICATION", AND ACI SP-68 "ACI DETAILING MANUAL".
 - WELDING: BARS SHALL NOT BE WELDED UNLESS AUTHORIZED. WHEN AUTHORIZED, CONFORM TO ACI 301, SECTION 3.2.2.2, "WELDING" AND PROVIDE ASTM A706, GRADE 60 REINFORCEMENT.
 - PLACING: CONFORM TO ACI 301, SECTION 3.2.2, "PLACEMENT". PLACING TOLERANCES SHALL CONFORM TO ACI 117.
 - CAST-IN-PLACE CONCRETE COVER: CONFORM TO THE FOLLOWING COVER AND CORROSION PROTECTION REQUIREMENTS APPROVED BY THE SER.
 - UNLESS NOTED OTHERWISE IN THE DRAWINGS:

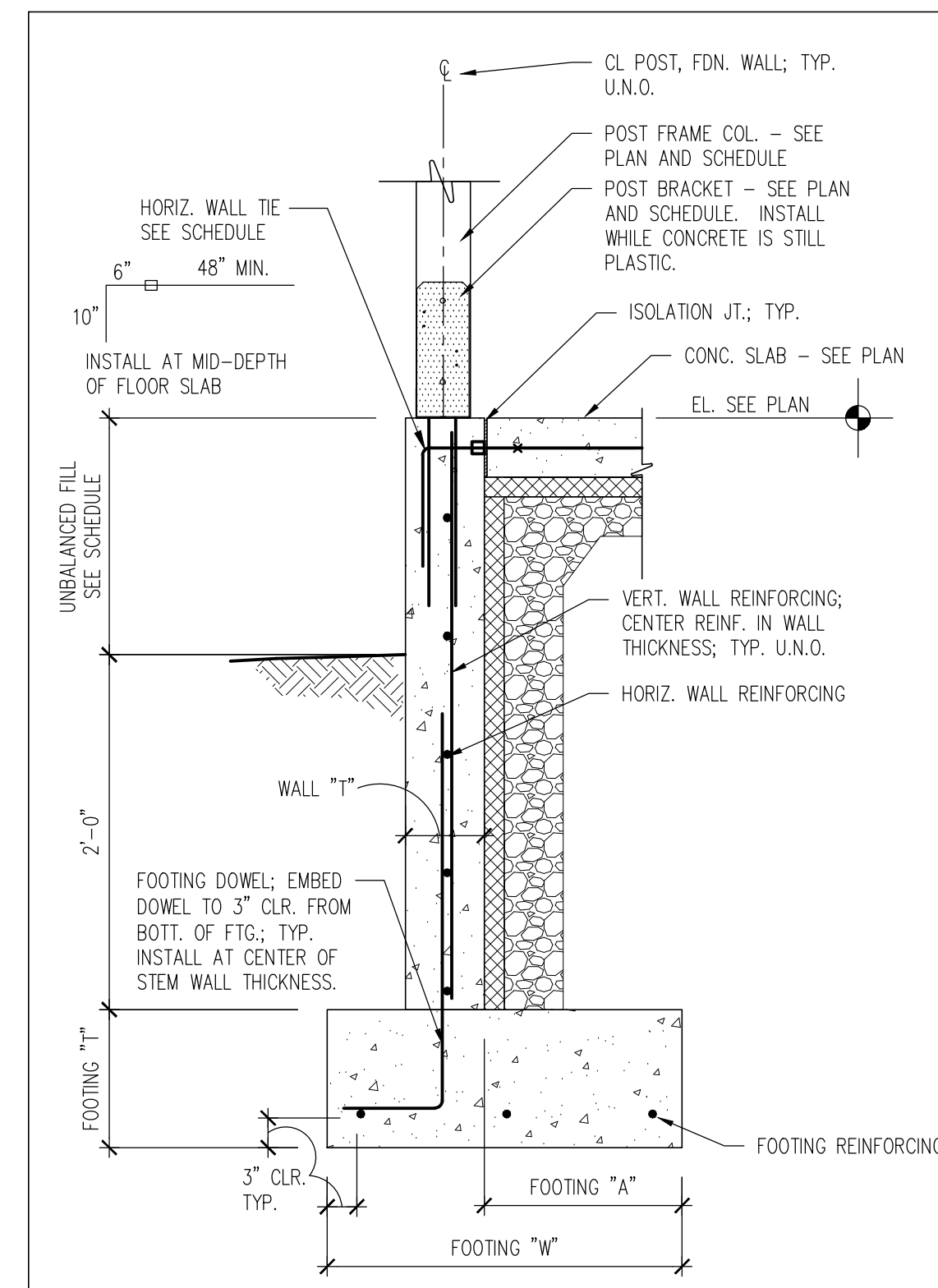
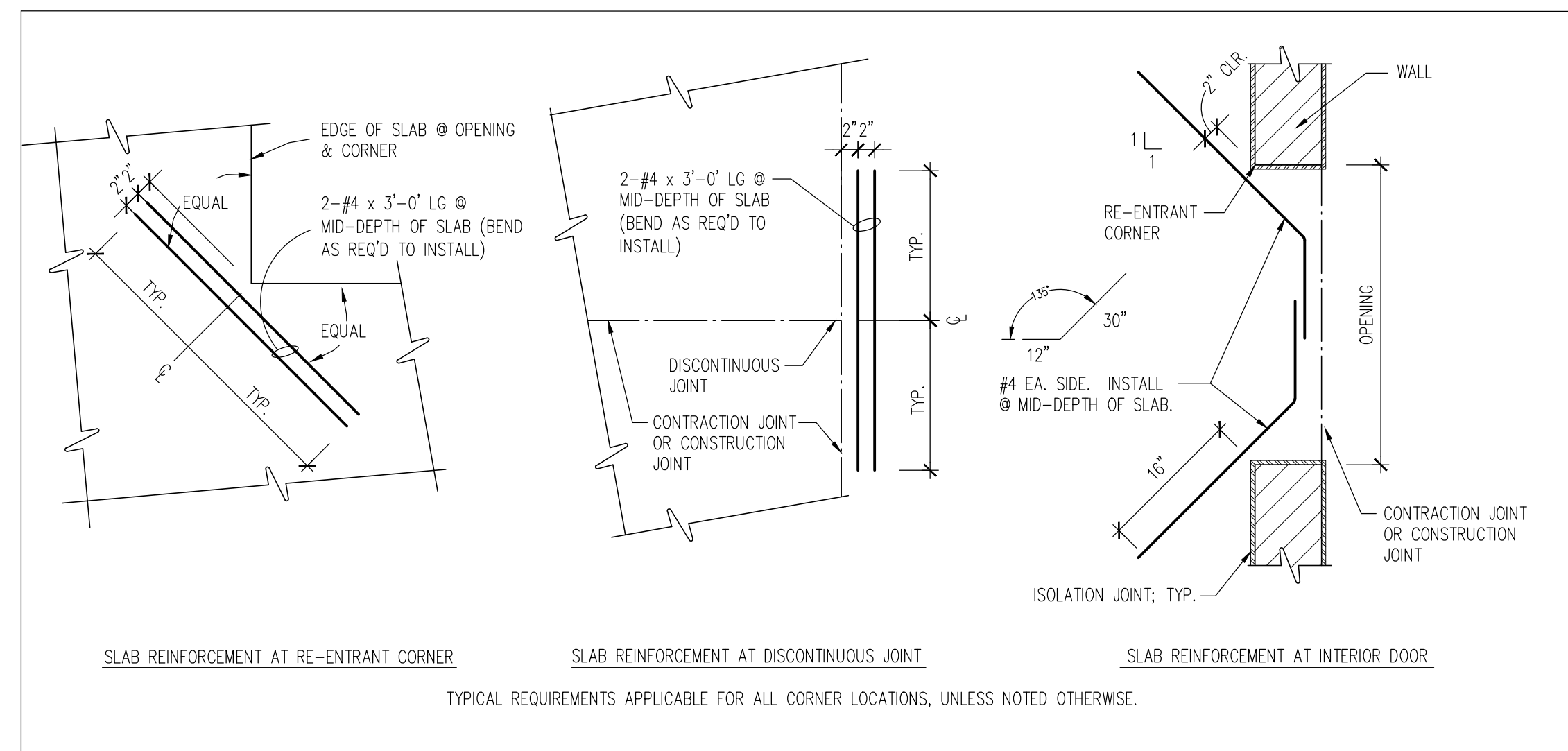
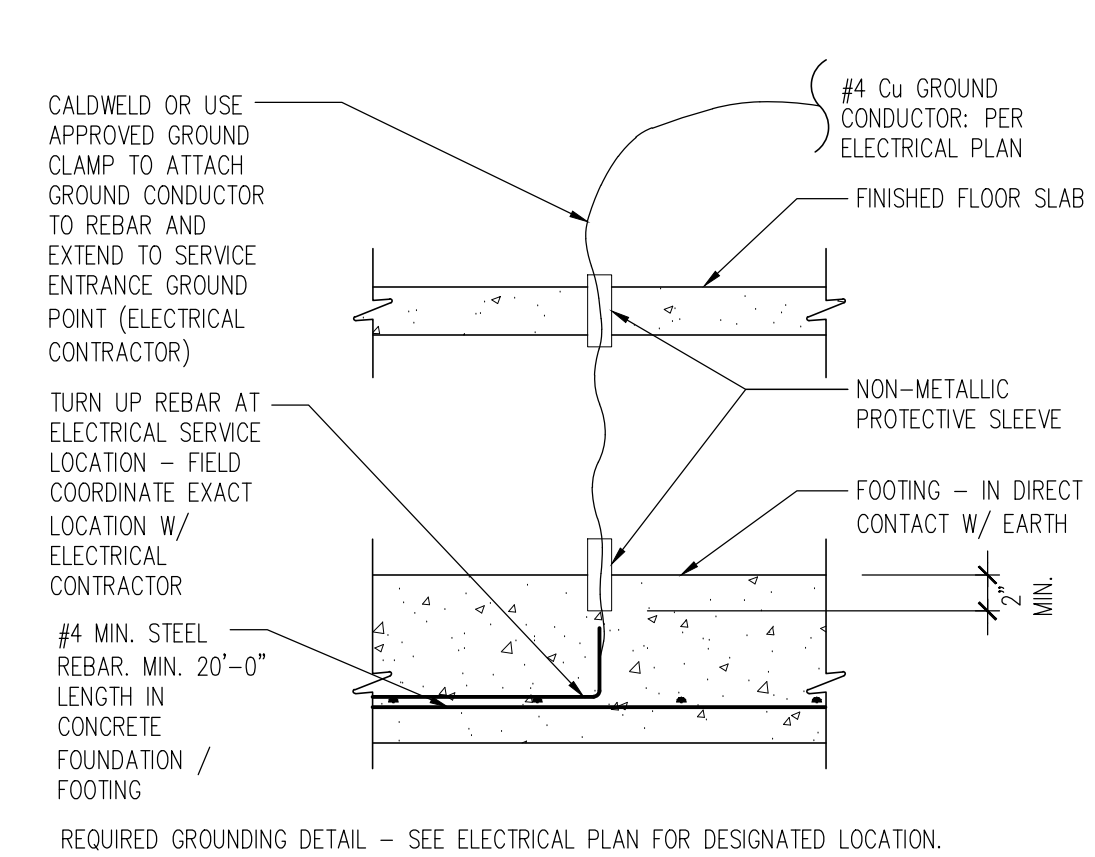
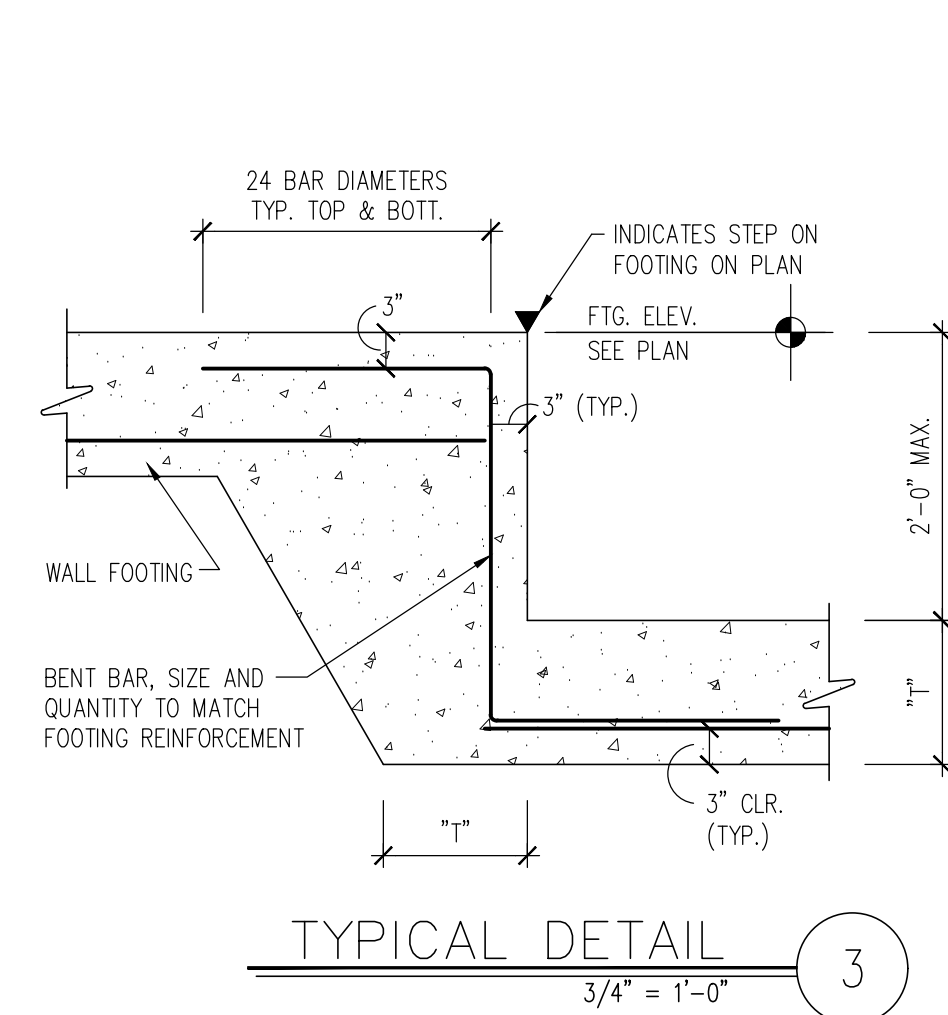
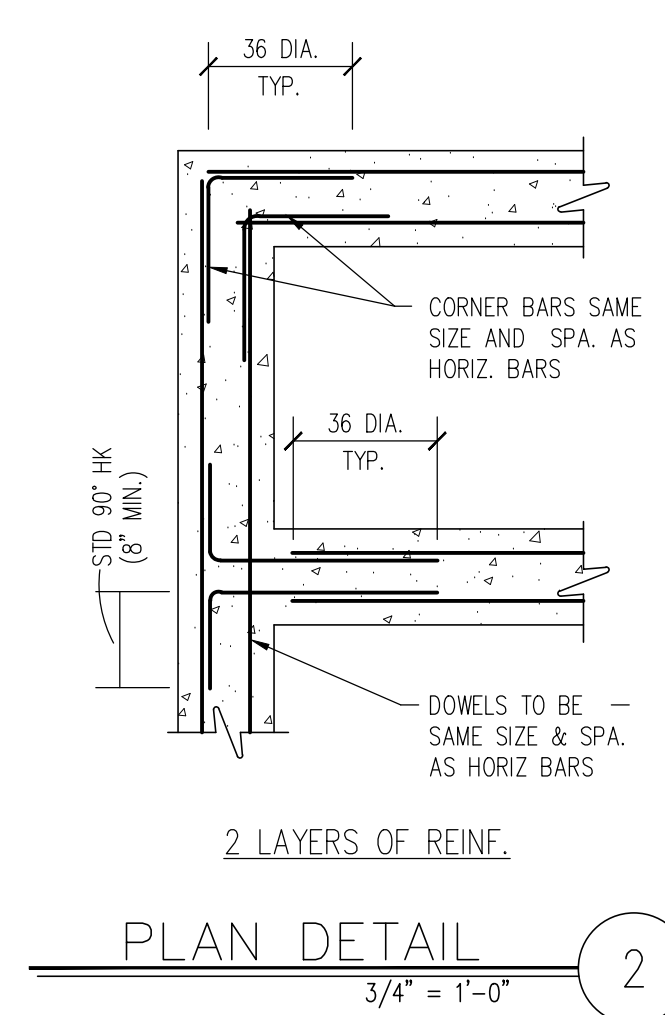
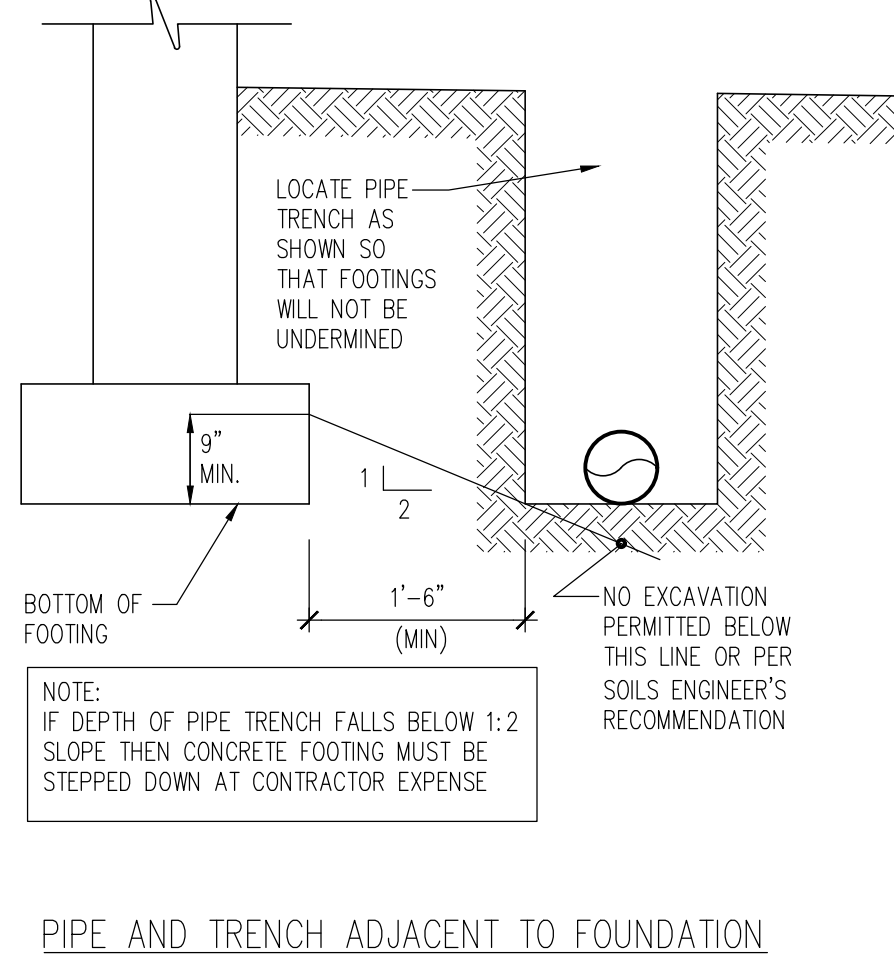
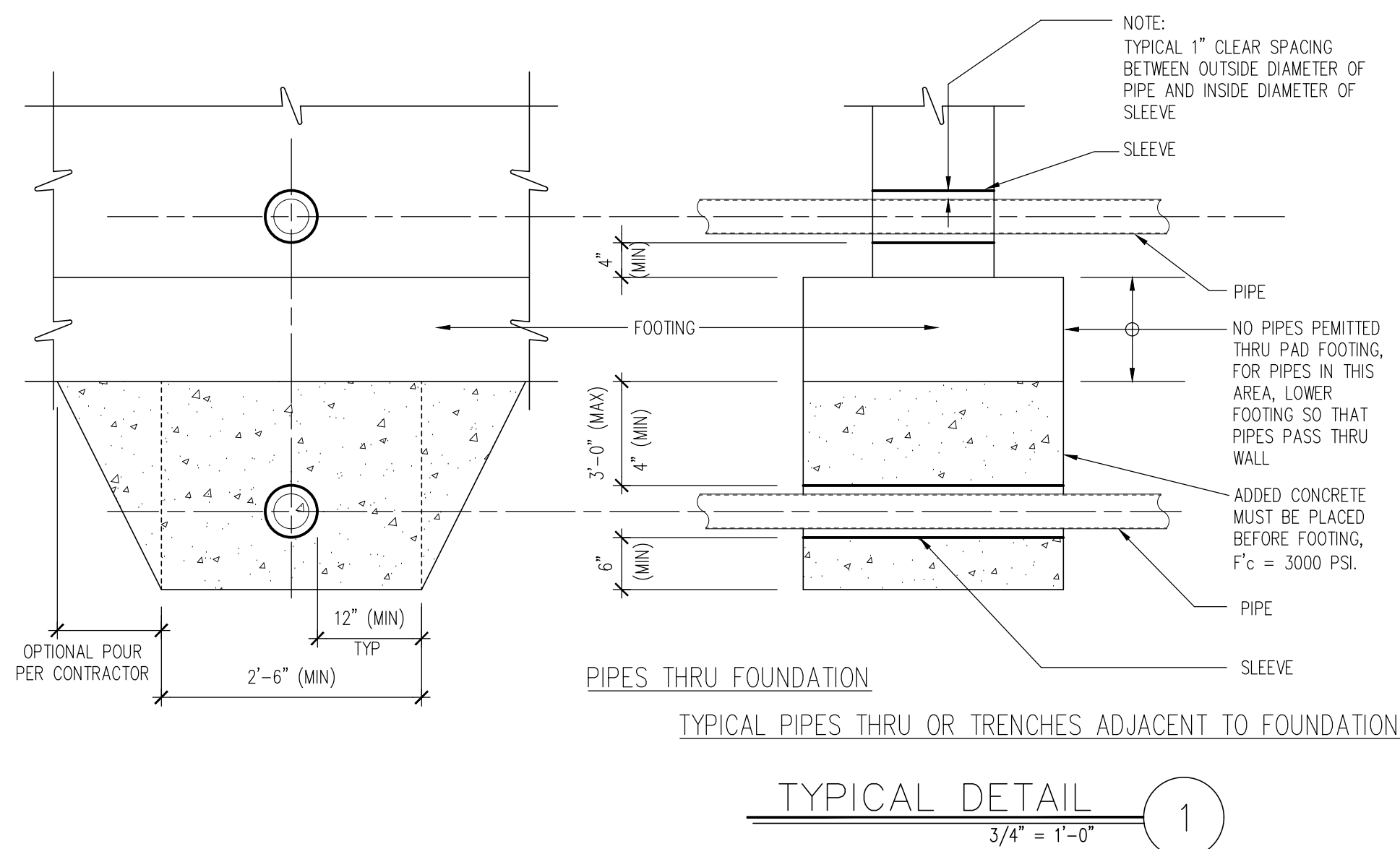
REINFORCEMENT LOCATION	MINIMUM COVER
FOOTING BOTTOM REINFORCING	3"
FOOTING TOP REINFORCING	2"
SLAB-ON-GRADE REINFORCING	2" FROM TOP
WALLS NOT IN CONTACT WITH EARTH	3/4"
WALLS IN CONTACT WITH EARTH	2"
STAIRS TOP REINFORCING	2"
STAIRS BOTTOM REINFORCING	1"
- SPLICING: CONFORM TO ACI 301, SECTION 3.2.2.2, "SPICES", REFER TO "TYPICAL LAP SPICE DEVELOPMENT LENGTH SCHEDULE" FOR TYPICAL REINFORCING SPICES. REFER TO "COLUMN COLUMN VERTICAL REINFORCING SCHEDULE" AND "SHEAR WALL REINFORCING SCHEDULE" FOR THOSE SPECIFIC ELEMENTS. SPICES INDICATED ON INDIVIDUAL SHEETS SHALL TAKE PRECEDENCE OVER THE SCHEDULE. MECHANICAL CONNECTIONS MAY BE USED WHEN APPROVED BY THE SER. FOR REINFORCING WITH THE LATERAL SYSTEM SHEAR WALLS AND REINFORCING CONNECTING THE DIAPHRAGM SLAB TO THE LATERAL SYSTEM, MECHANICAL SPICE STRENGTH IS INCREASED TO DEVELOP 100 PERCENT OF THE SPECIFIED TENSILE STRENGTH OF THE SPICED BAR.
- FIELD BENDING: CONFORM TO ACI 301, SECTION 3.2.2.6, "FIELD BENDING OR STRAIGHTENING". BAR SIZES #3 THROUGH #5 MAY BE FIELD BENT COLD THE FIRST TIME, OTHER BARS REQUIRED PREHEATING. DO NOT TWIST BARS. BARS SHALL NOT BE BENT PAST 45 DEGREES.
- SPLICING AND EMBEDMENT:
 - REINFORCING BAR DETAILING, BENDING, FABRICATION AND PLACEMENT SHALL CONFORM TO THE LATEST EDITION OF THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE BUILDING" (ACI 301) AND ACI DETAILING MANUAL (SP68).
 - PROVIDE WMT IN FLAT SLABS AND LAP A MINIMUM OF 14" AT SPICES. PLACE WMT IN THE CENTER OF THE SLAB OR 2" DOWN FROM THE TOP OF THE SLAB. PROVIDE CHAIRS AND SPACERS AS REQUIRED TO MAINTAIN WMT.
 - PLACEMENT AND SPECIFIED PROTECTIVE COVERING.
 - PROVIDE CLASS B TENSAR LAP SPICES FOR HORIZONTAL AND VERTICAL WALL AND FOOTING REINFORCING, U.N.O.
 - SPICES NOT PERMITTED IN BEAM, JOIST, OR SLAB STEEL UNLESS SPECIFICALLY DETAILED OTHERWISE.
 - FIELD TOLERANCES, WHEN PERMITTED, SHALL BE IN ACCORDANCE WITH ACI CODES AND SCHEDULES ON DRAWINGS.
 - THE TABULATED TENSAR LAP-SPICE LENGTHS ARE CALCULATED PER ACI 318, FOR NON-SEISMIC, UNCOATED BARS, AND NORMAL WEIGHT CONCRETE. LENGTHS MUST BE ADJUSTED FOR NON-COMFORMING APPLICATIONS, CHAIRS, AND 2" WHICH DEPEND ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER, AND CENTER-TO-CENTER SPACING OF THE BARS ARE DEFINED AS (db = diameter of bar):

BEAMS OR COLUMNS:	THIN WALLS:
CASE 1 - COVER AT LEAST 1.0 db AND CENTER-TO-CENTER SPACING AT LEAST 2.0 db	CASE 1 - COVER AT LEAST 1.0 db AND CENTER-TO-CENTER SPACING AT LEAST 2.0 db
CASE 2 - COVER SPACING LESS THAN 1.0db OR CENTER-TO-CENTER SPACING LESS THAN 2.0 db	CASE 2 - COVER SPACING LESS THAN 1.0db OR CENTER-TO-CENTER SPACING LESS THAN 2.0 db
ALL OTHERS:	ALL OTHERS:
CASE 3 - COVER AT LEAST 1.0 db AND CENTER-TO-CENTER SPACING AT LEAST 3.0db	CASE 3 - COVER AT LEAST 1.0 db AND CENTER-TO-CENTER SPACING AT LEAST 3.0db
CASE 4 - COVER LESS THAN 1.0 db AND CENTER-TO-CENTER SPACING LESS THAN 3.0 db	CASE 4 - COVER LESS THAN 1.0 db AND CENTER-TO-CENTER SPACING LESS THAN 3.0 db

REINFORCEMENT TENSION DEVELOPMENT AND LAP SCHEDULE

BAR SIZE, TOP BARS, LOWER BARS, TOP BARS, LOWER BARS, TOP BARS, LOWER BARS, TOP BARS, LOWER BARS

CASE 1 CASE 2 CASE 3 CASE 4 CASE 5 CASE 6 CASE 7 CASE 8 CASE 9 CASE 10 CASE 11 CASE 12 CASE 13 CASE 14 CASE 15 CASE 16 CASE 17 CASE 18 CASE 19 CASE 20 CASE 21 CASE 22 CASE 23 CASE 24 CASE 25 CASE 26 CASE 27 CASE 28 CASE 29 CASE 30 CASE 31 CASE 32 CASE 33 CASE 34 CASE 35 CASE 36 CASE 37 CASE 38 CASE 39 CASE 40 CASE 41 CASE 42 CASE 43 CASE 44 CASE 45 CASE 46 CASE 47 CASE 48 CASE 49 CASE 50 CASE 51 CASE 52 CASE 53 CASE 54 CASE 55 CASE 56 CASE 57 CASE 58 CASE 59 CASE 60 CASE 61 CASE 62 CASE 63 CASE 64 CASE 65 CASE 66 CASE 67 CASE 68 CASE 69 CASE 70 CASE 71 CASE 72 CASE 73 CASE 74 CASE 75 CASE 76 CASE 77 CASE 78 CASE 79 CASE 80 CASE 81 CASE 82 CASE 83 CASE 84 CASE 85 CASE 86 CASE 87 CASE 88 CASE 89 CASE 90 CASE 91 CASE 92 CASE 93 CASE 94 CASE 95 CASE 96 CASE 97 CASE 98 CASE 99 CASE 100 CASE 101 CASE 102 CASE 103 CASE 104 CASE 105 CASE 106 CASE 107 CASE 108 CASE 109 CASE 110 CASE 111 CASE 112 CASE 113 CASE 114 CASE 115 CASE 116 CASE 117 CASE 118 CASE 119 CASE 120 CASE 121 CASE 122 CASE 123 CASE 124 CASE 125 CASE 126 CASE 127 CASE 128 CASE 129 CASE 130 CASE 131 CASE 132 CASE 133 CASE 134 CASE 135 CASE 136 CASE 137 CASE 138 CASE 139 CASE 140 CASE 141 CASE 142 CASE 143 CASE 144 CASE 145 CASE 146 CASE 147 CASE 148 CASE 149 CASE 150 CASE 151 CASE 152 CASE 153 CASE 154 CASE 155 CASE 156 CASE 157 CASE 158 CASE 159 CASE 160 CASE 161 CASE 162 CASE 163 CASE 164 CASE 165 CASE 166 CASE 167 CASE 168 CASE 169 CASE 170 CASE 171 CASE 172 CASE 173 CASE 174 CASE 175 CASE 176 CASE 177 CASE 178 CASE 179 CASE 180 CASE 181 CASE 182 CASE 183 CASE 184 CASE 185 CASE 186 CASE 187 CASE 188 CASE 189 CASE 190 CASE 191 CASE 192 CASE 193 CASE 194 CASE 195 CASE 196 CASE 197 CASE 198 CASE 199 CASE 200 CASE 201 CASE 202 CASE 203 CASE 204 CASE 205 CASE 206 CASE 207 CASE 208 CASE 209 CASE 210 CASE 211 CASE 212 CASE 213 CASE 214 CASE 215 CASE 216 CASE 217 CASE 218 CASE 219 CASE 220 CASE 221 CASE 222 CASE 223 CASE 224 CASE 225 CASE 226 CASE 227 CASE 228 CASE 229 CASE 230 CASE 231 CASE 232 CASE 233 CASE 234 CASE 235 CASE 236 CASE 237 CASE 238 CASE 239 CASE 240 CASE 241 CASE 242 CASE 243 CASE 244 CASE 245 CASE 246 CASE 247 CASE 248 CASE 249 CASE 250 CASE 251 CASE 252 CASE 253 CASE 254 CASE 255 CASE 256 CASE 257 CASE 258 CASE 259 CASE 260 CASE 261 CASE 262 CASE 263 CASE 264 CASE 265 CASE 266 CASE 267 CASE 268 CASE 269 CASE 270 CASE 271 CASE 272 CASE 273 CASE 274 CASE 275 CASE 276 CASE 277 CASE 278 CASE 279 CASE 280 CASE 281 CASE 282 CASE 283 CASE 284 CASE 285 CASE 286 CASE 287 CASE 288 CASE 289 CASE 290 CASE 291 CASE 292 CASE 293 CASE 294 CASE 295 CASE 296 CASE 297 CASE 298 CASE 299 CASE 300 CASE 301 CASE 302 CASE 303 CASE 304 CASE



MARK	UNBALANCED FILL			
	0'-0" TO 1'-0"	1'-1" TO 2'-0"	2'-1" TO 3'-1"	
WALL "1"	8"	8"	8"	
FOOTING "1"	12"	14"	14"	
FOOTING "W"	18"	24"	36"	
FOOTING "A"	5"	12"	20"	
FOOTING DOWEL	#5 @ 32" O.C.	#5 @ 24" O.C.	#5 @ 16" O.C.	
FOOTING REINFORCING	(2) #4 CONT.	(3) #5 CONT.	(3) #5 CONT.	
VERT. WALL REINFORCING	#5 @ 32" O.C.	#5 @ 24" O.C.	#5 @ 16" O.C.	
HORIZ. WALL REINFORCING	(3) #5	(4) #5	(5) #5	
HORIZ. WALL TIE	NOT REQ'D	#5 @ 48" O.C.	#5 @ 24" O.C.	

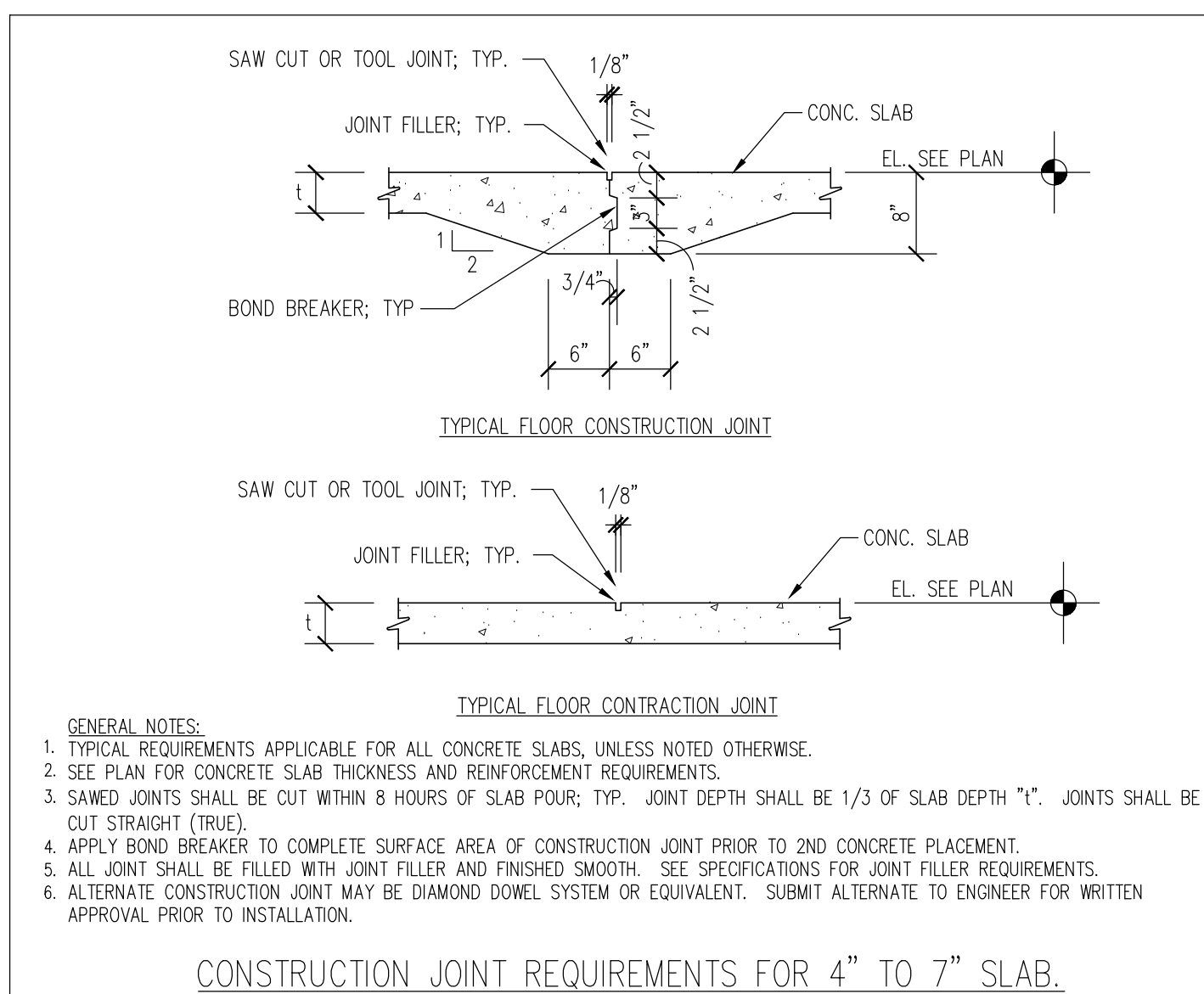
NOTES:

- THE CONSTRUCTION MANAGER IS SOLELY RESPONSIBLE TO COORDINATE FINAL SITE GRADING TO BE IN CONFORMANCE WITH THE SPECIFIED WALL CONSTRUCTION AND LIMITATION ON UNBALANCED FILL.
- ALL FOOTING DIMENSIONS SPECIFIED IN SCHEDULE ARE PERMITTED TO HAVE FIELD TOLERANCE OF 2" MAXIMUM DIFFERENCE.
- ALL GRADE DIMENSIONS SPECIFIED IN SCHEDULE ARE PERMITTED TO HAVE A FIELD TOLERANCE OF 4" MAXIMUM DIFFERENCE.
- BOTT. OF FOOTING SHALL BE BELOW LOCAL FROST DEPTH REQUIREMENTS. EXTEND FOOTING DEPTH AS REQUIRED.

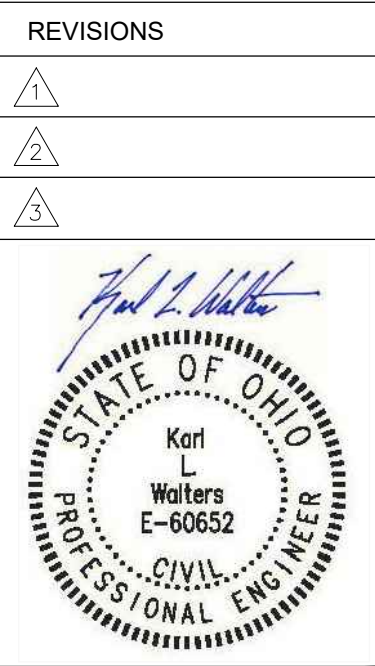
TYPICAL DETAIL

3/4" = 1'-0"

6



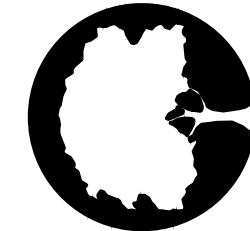
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112 Harcourt Rd, Suite 5
Mount Vernon, Ohio 43050

740-397-2282



A NEW COMMERCIAL BUILDING FOR:

MOUNT VERNON
OVERHEAD DOOR

810 N. SANDUSKY STREET MT. VERNON, OH 43050

4/7/2021

zoning submission ☐
design development ☐
construction document ☒
bidding ☐
building permit submission ☒
not for construction ☐
record / archive ☐
In Progress ☐
cadfile ☐

job no.

drawn

M/JN

SECTIONS / DETAILS

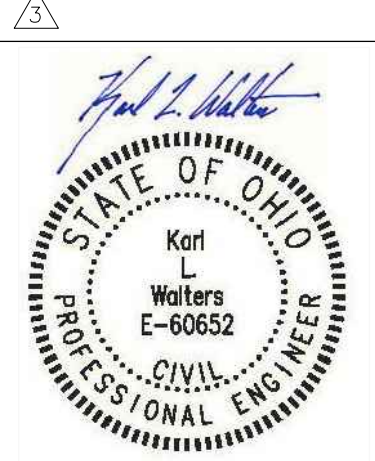
SD-2

JACK D. WALTERS & ASSOCIATES, INC.
PROJECT NO. 21-061
DESIGNED BY KDW
DRAWN BY M/W/JN
PROGRESS DRAWINGS
OWNER REVIEW
PERMIT DRAWINGS
CONSTRUCTION DRAWINGS

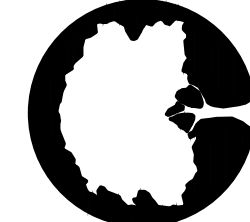
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2	
3	



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112 Harcourt Rd., Suite 5
Mount Vernon, Ohio 43050



A NEW COMMERCIAL BUILDING FOR:

**MOUNT VERNON
OVERHEAD DOOR**

810 N. SANDUSKY STREET MT. VERNON, OH 43050

4/7/2021

zoning submission ☐
design development ☒
construction document ☒
bidding ☐
building permit submission ☒
not for construction ☐
record / archive ☐
In Progress ☐
cadfile ☐

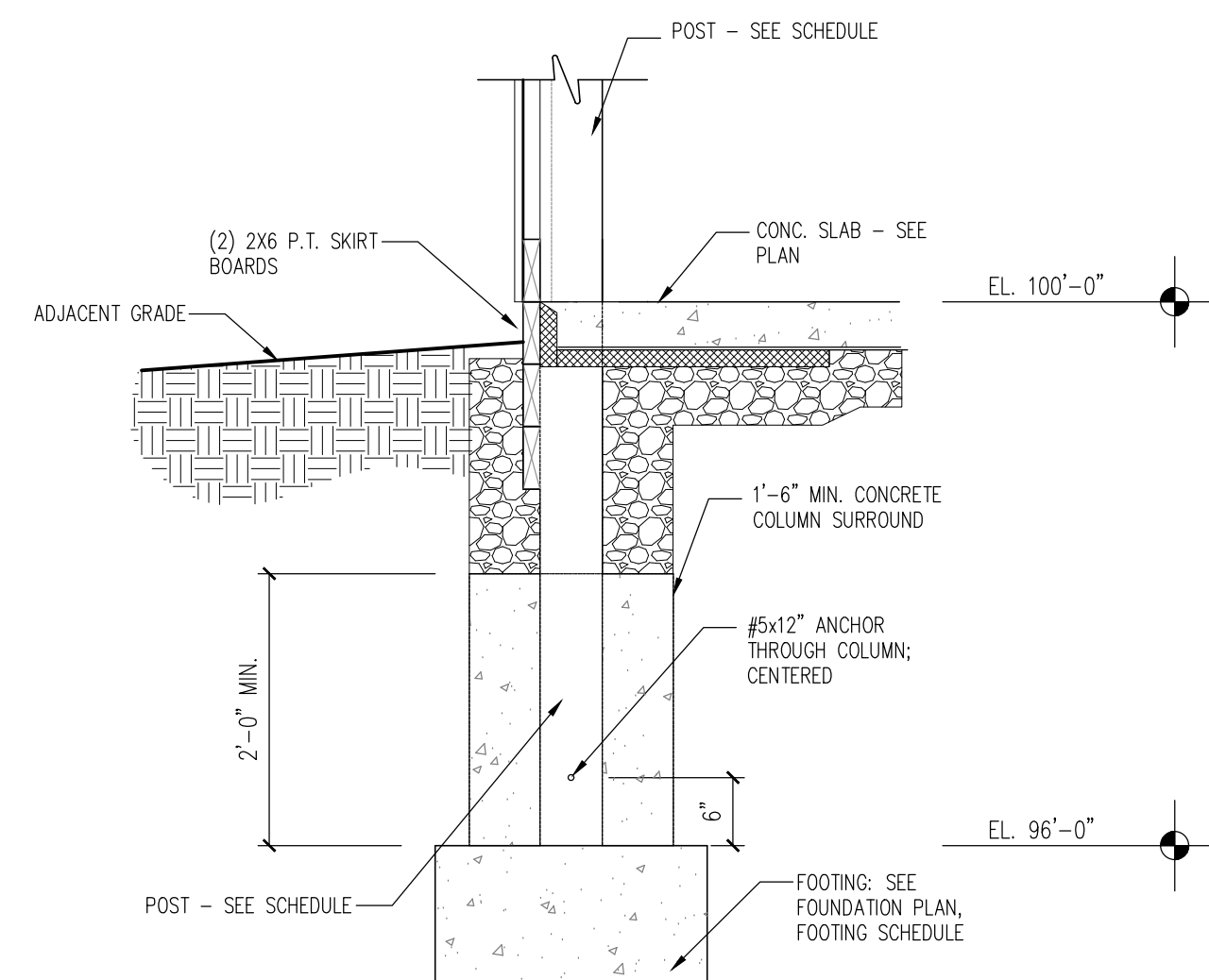
job no.

drawn M.J.N.

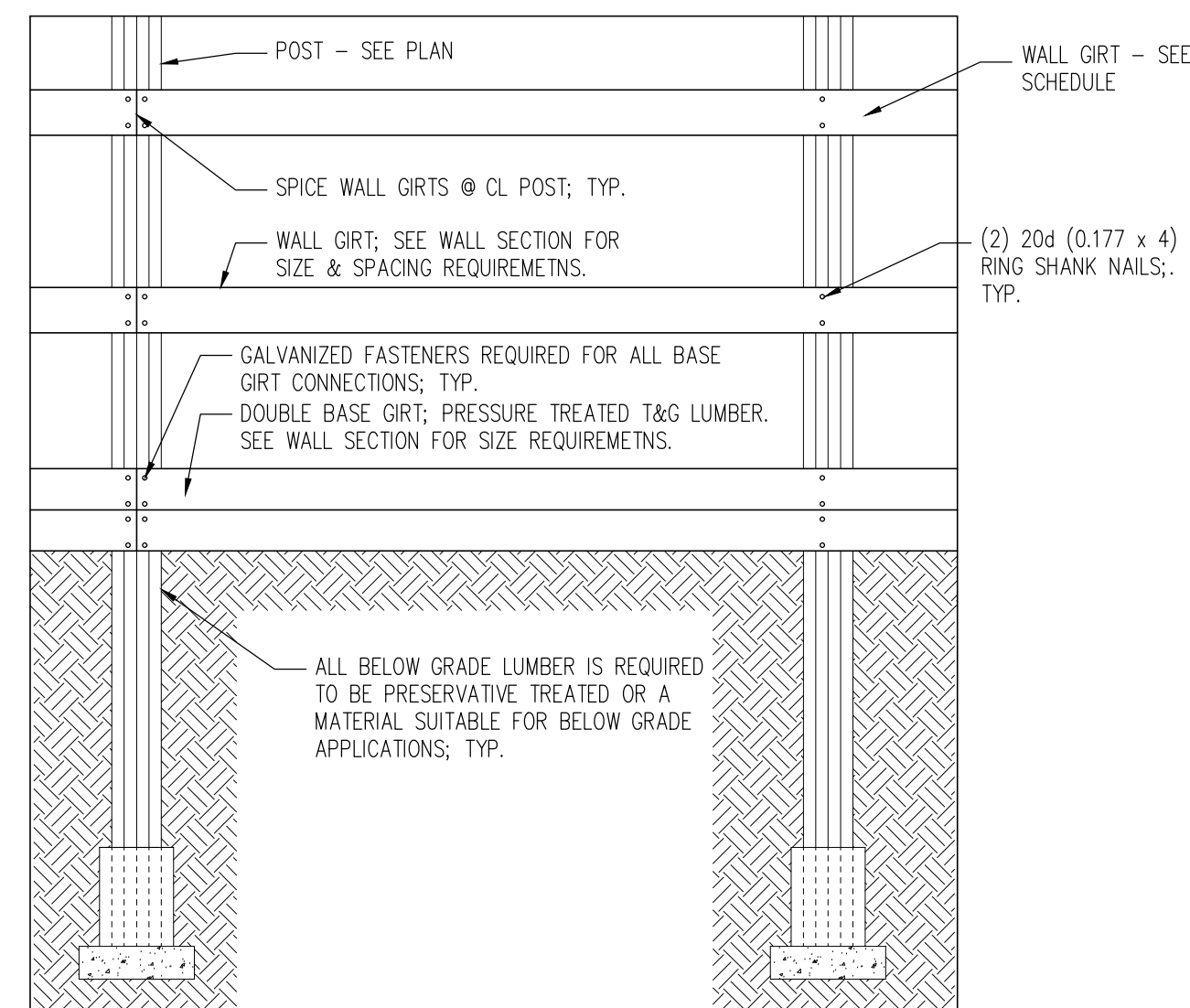
SECTIONS / DETAILS

SD-3

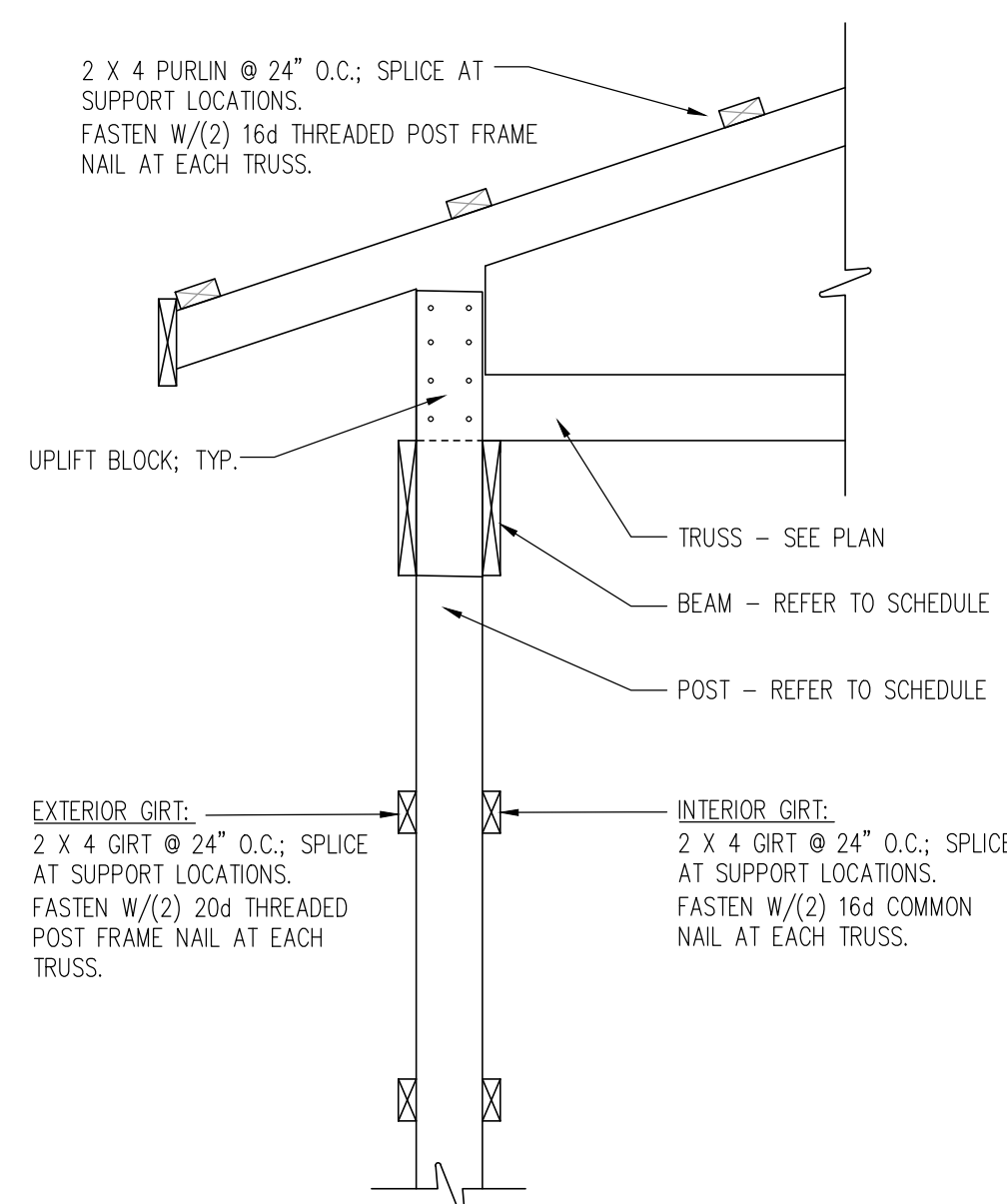
JACK D. WALTERS & ASSOCIATES, INC.
PROJECT NO. 21-061
DESIGNED BY J.C.W.
DRAWN BY M.J.N./J.W.
PROGRESS DRAWINGS
OWNER REVIEW
PERMIT DRAWINGS
CONSTRUCTION DRAWINGS



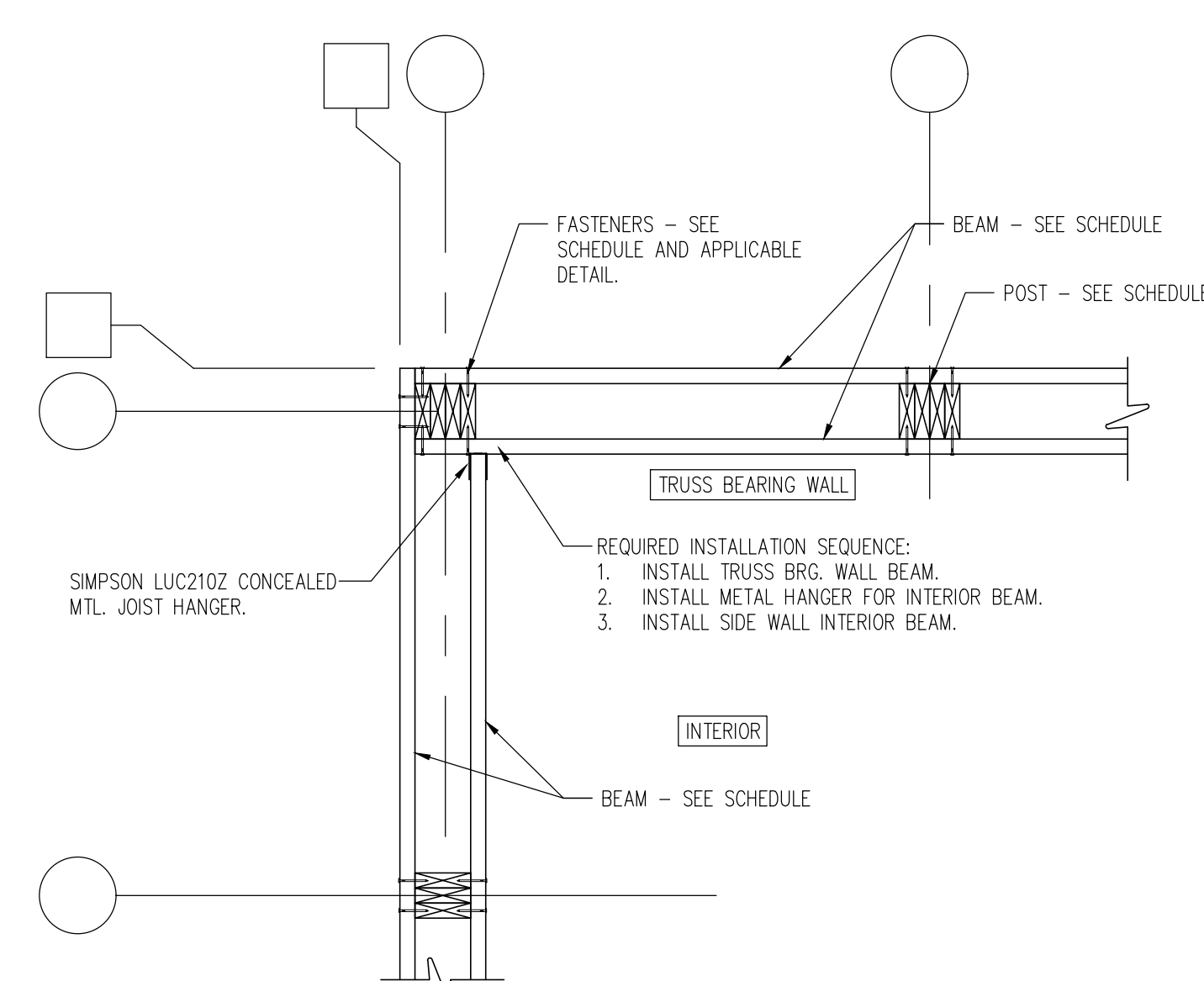
TYPICAL DETAIL 1
FOUNDATION DETAIL 3/4" = 1'-0"



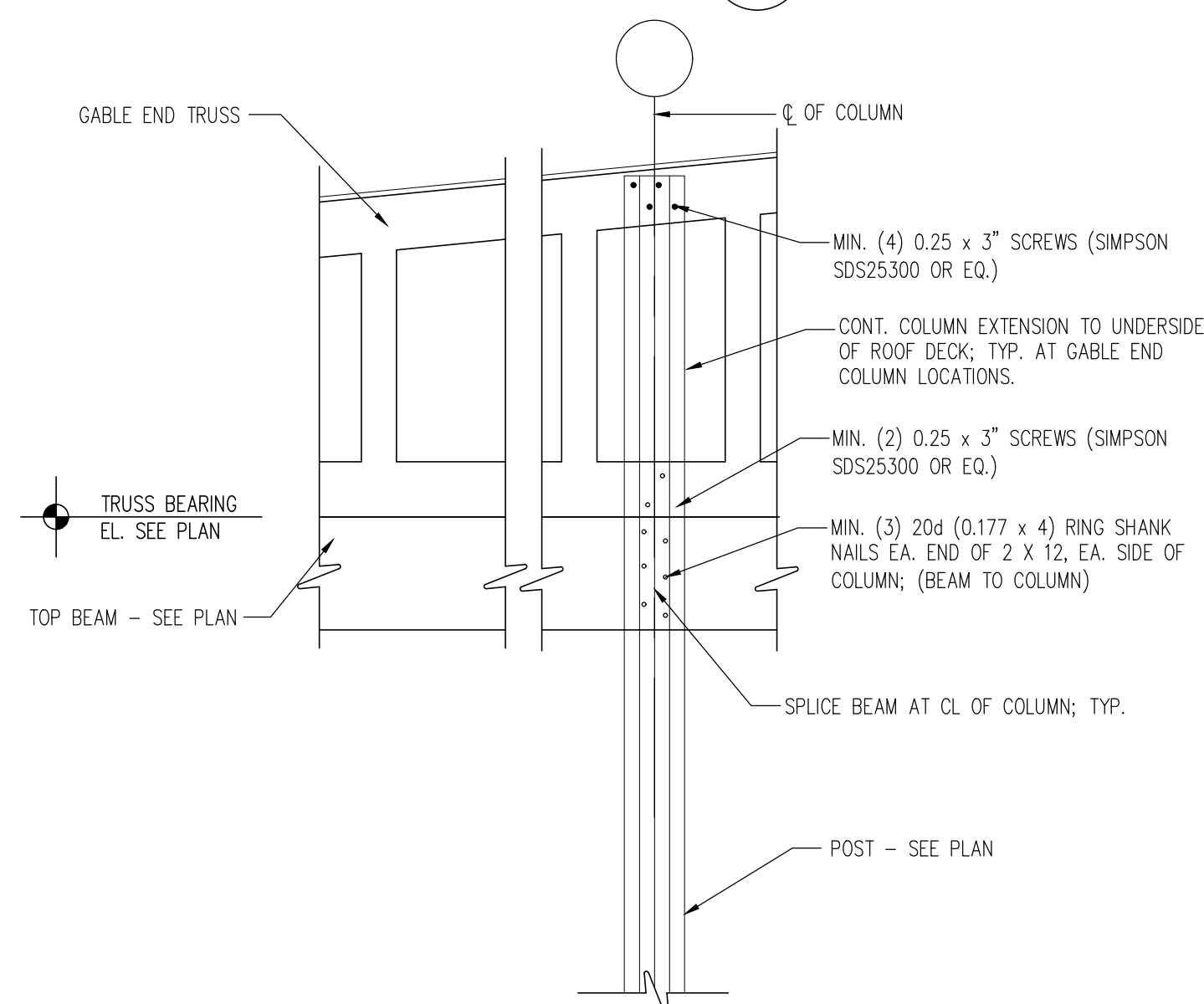
TYPICAL DETAIL 2
WALL ELEVATION 3/4" = 1'-0"



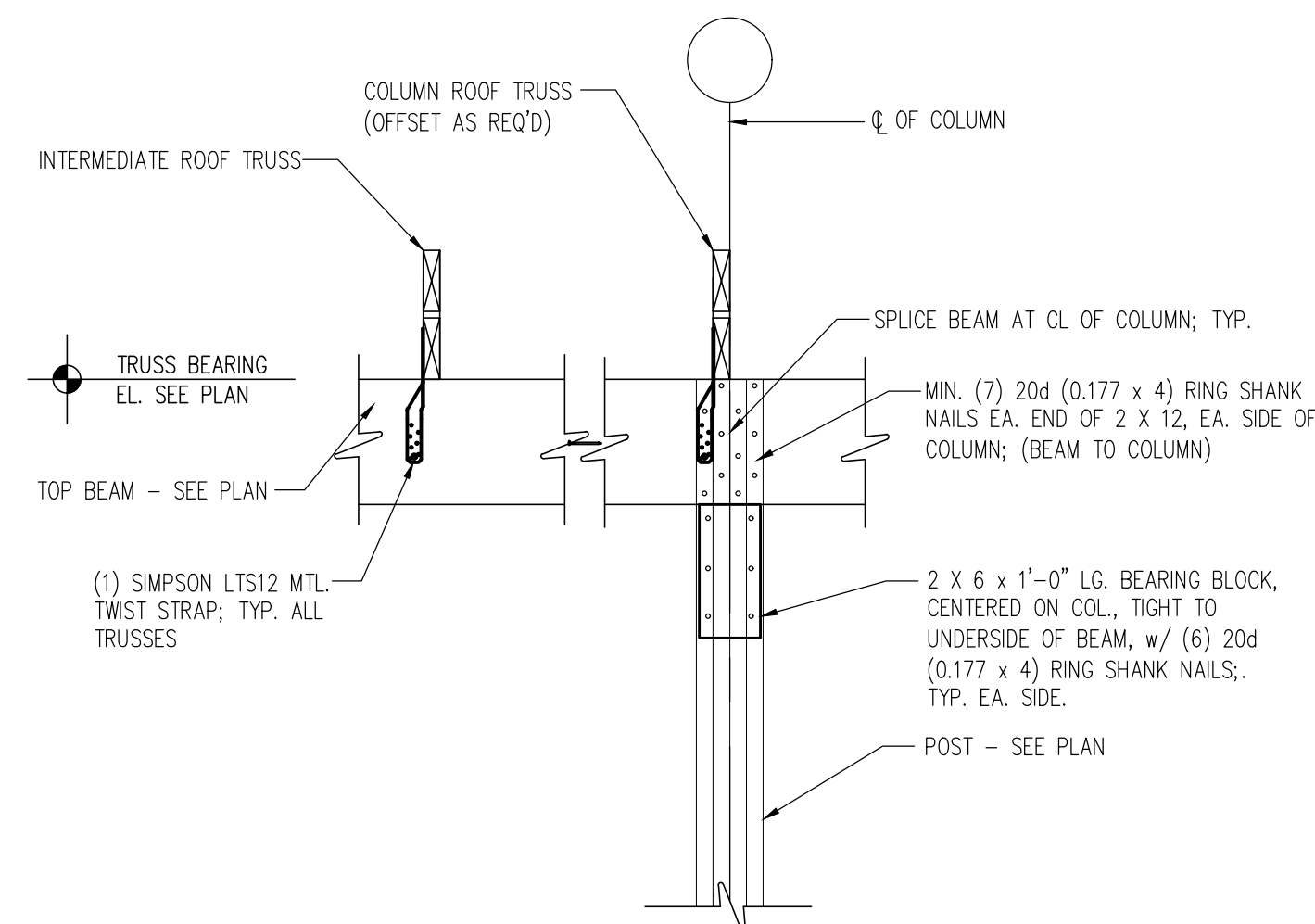
TYPICAL DETAIL 3
PURLIN AND GIRT REQUIREMENTS 3/4" = 1'-0"



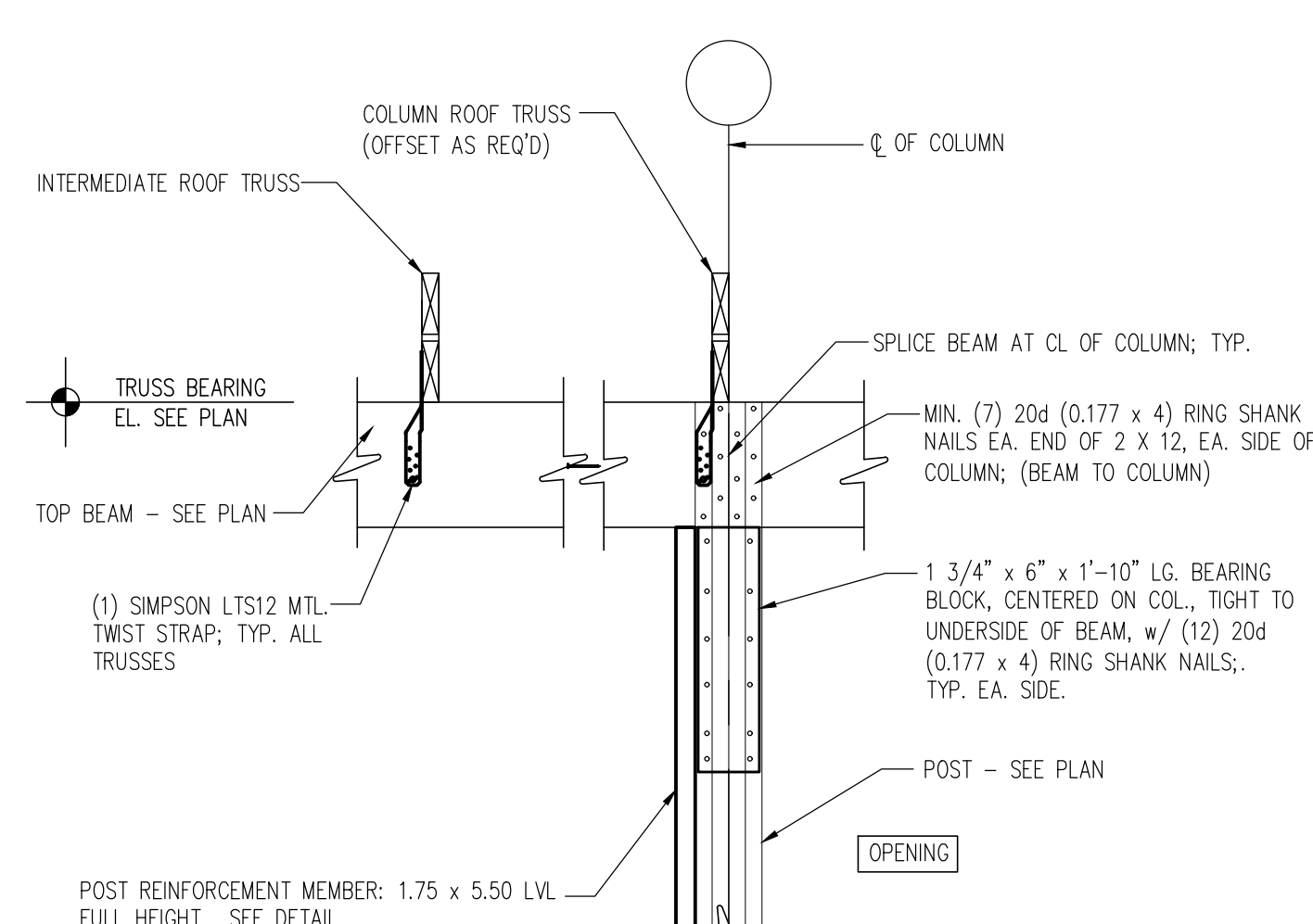
TYPICAL PLAN DETAIL 4
CORNER CONDITIONS 3/4" = 1'-0"



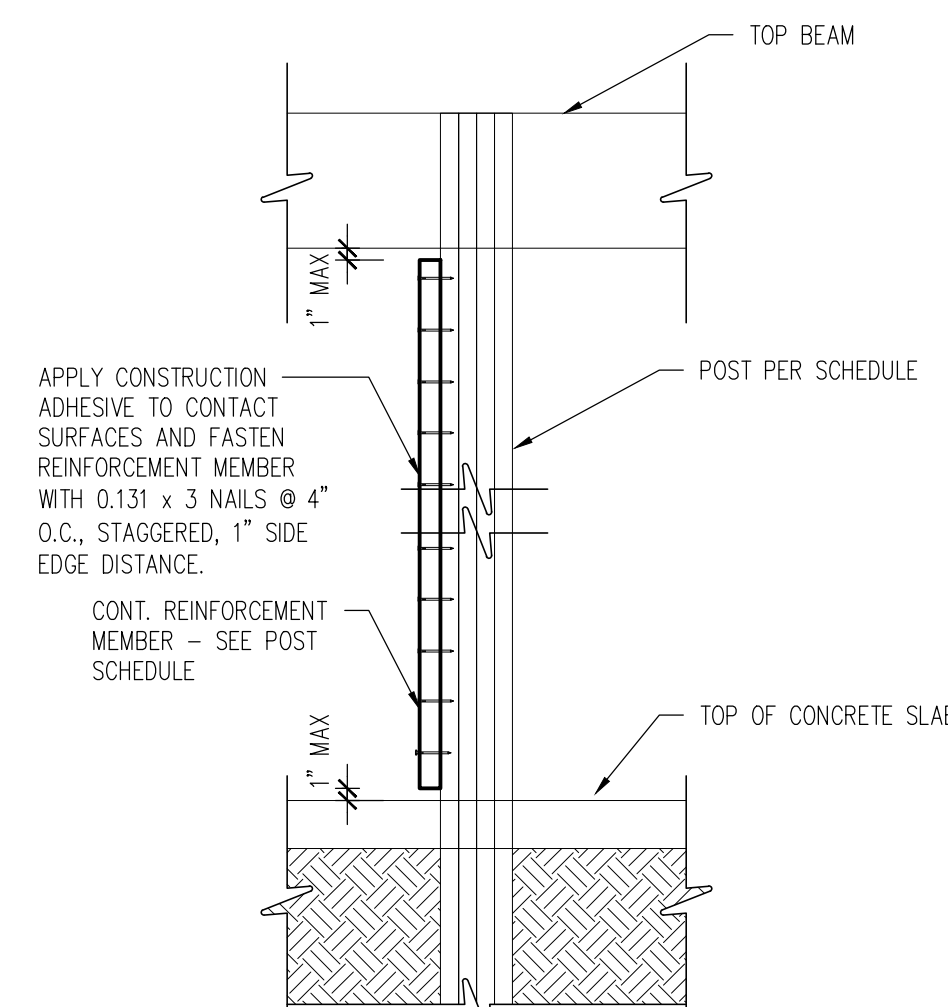
TYPICAL DETAIL 5
3/4" = 1'-0"



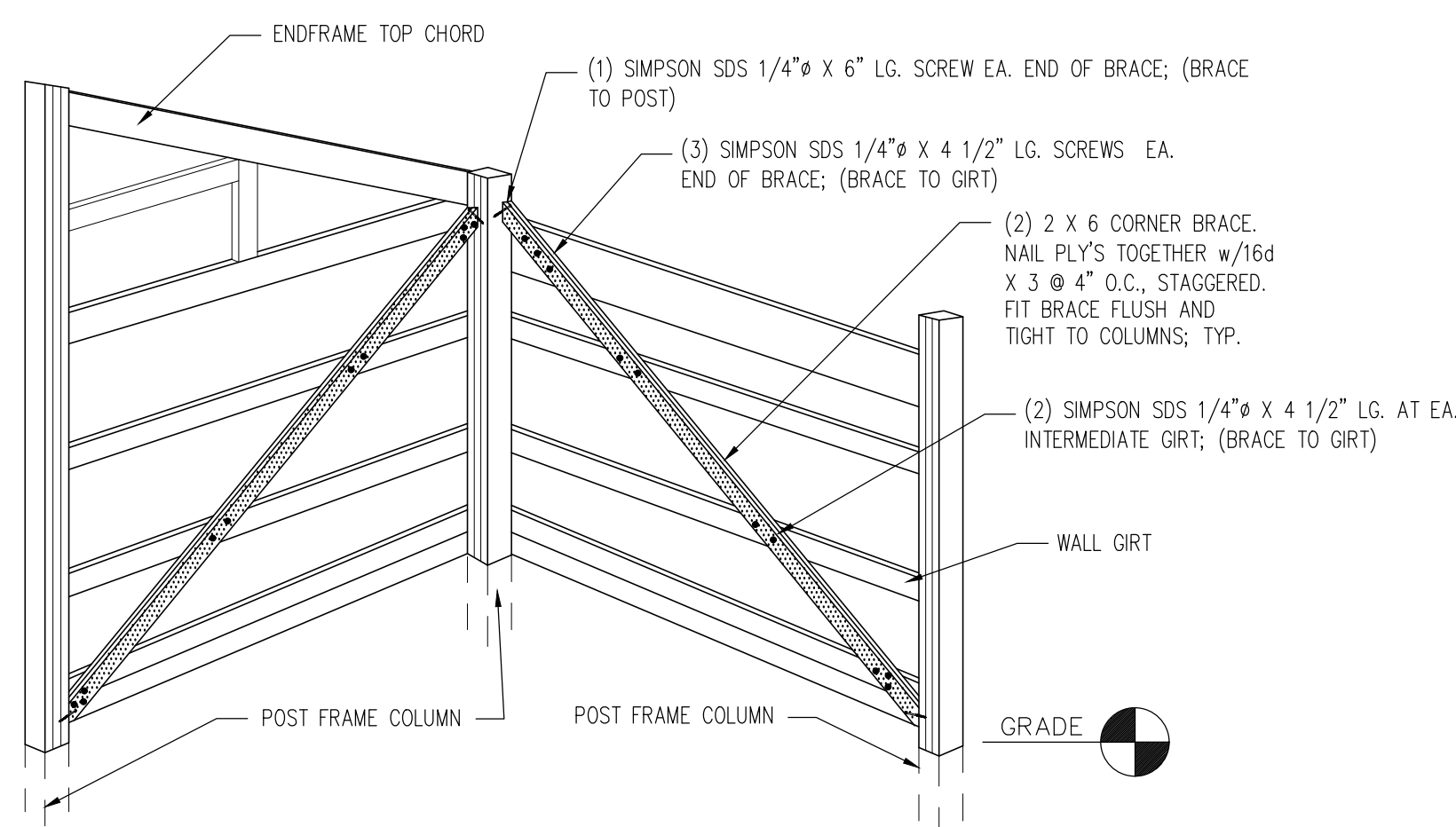
TYPICAL DETAIL 6
(2) 2 x 12 3/4" = 1'-0"



TYPICAL DETAIL 7
(2) LVL BEAM 3/4" = 1'-0"



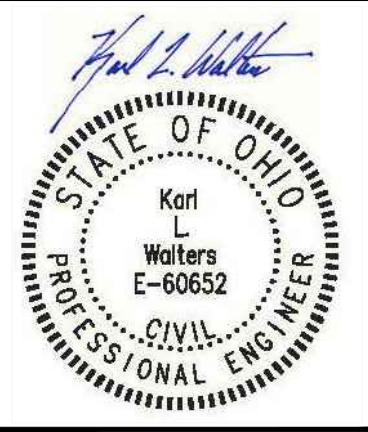
TYPICAL DETAIL 8
3/4" = 1'-0"



LATERAL BRACING ELEVATION SW1
N.T.S.

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740-397-2282

A NEW COMMERCIAL BUILDING FOR:

MOUNT VERNON
OVERHEAD DOOR

810 N. SANDUSKY STREET
MT. VERNON, OH 43050

4/7/2021

zoning submission

design development

construction document

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building permit submission

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record / archive

In Progress

cadfile

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job no.

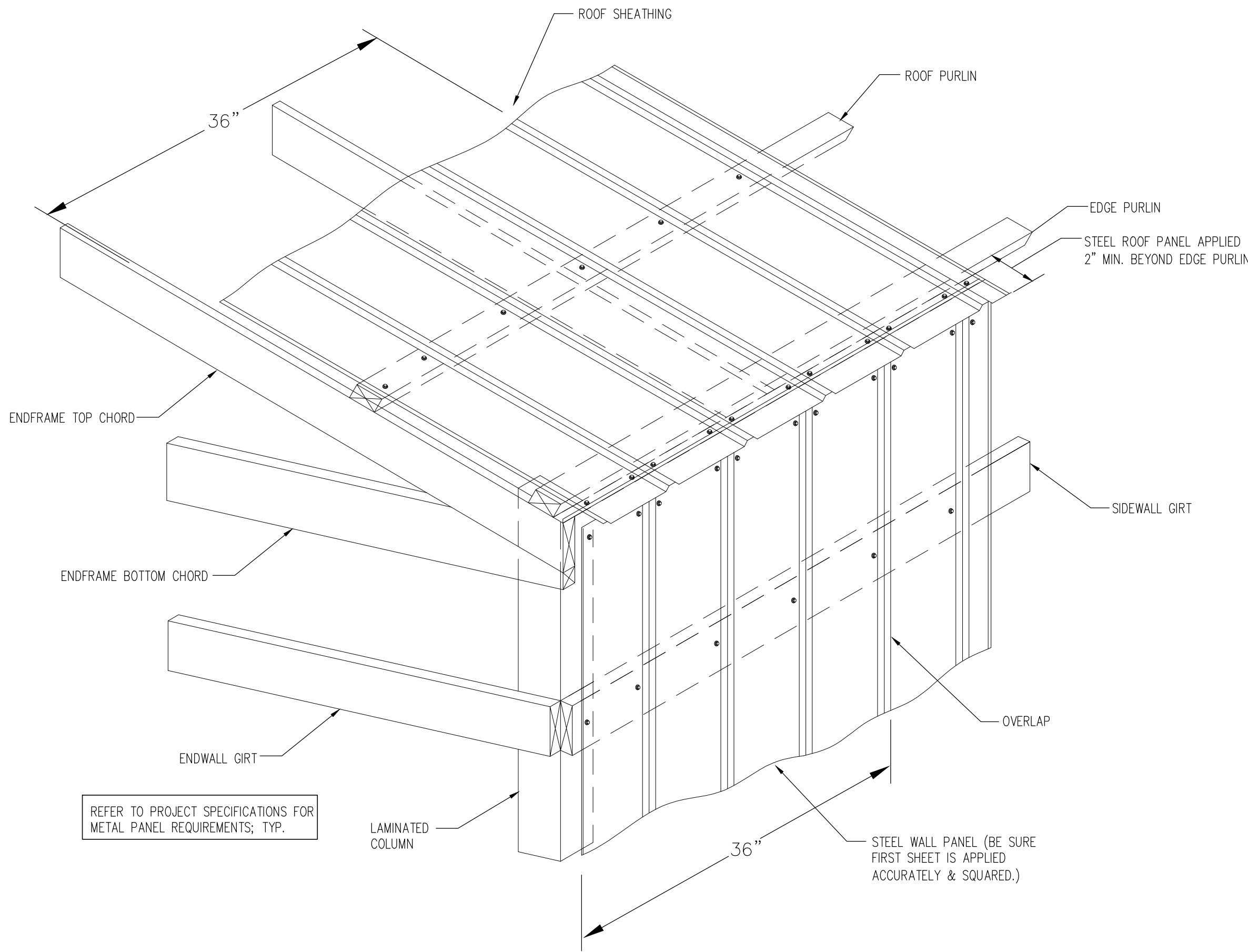
drawn

M,J,N

SECTIONS / DETAILS

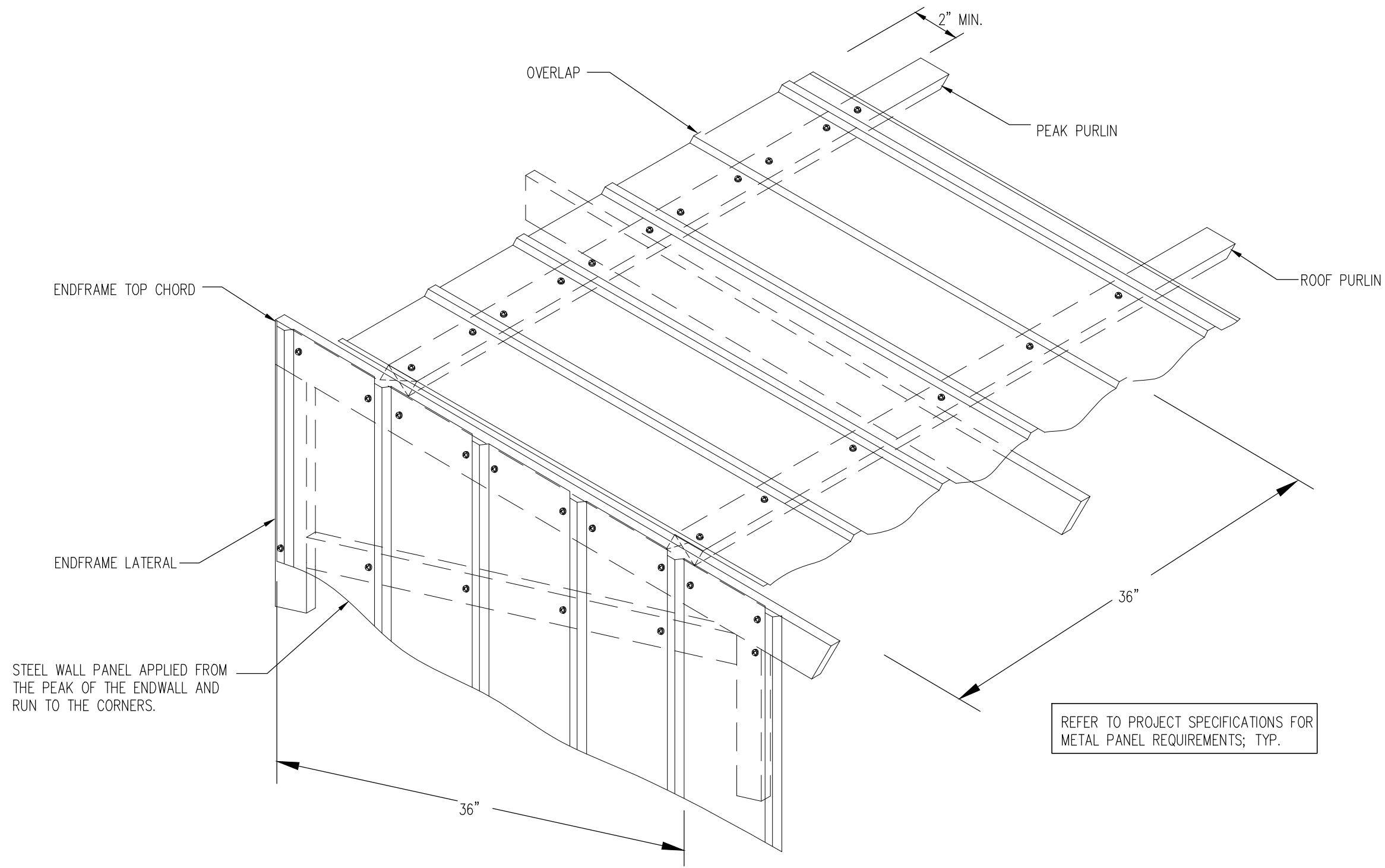
SD-4

	JACK D. WALTERS & ASSOCIATES, INC.
	PROJECT NO. 21-061
	DESIGNED BY KJW
	DRAWN BY M.J.N./KJW
PROGRESS DRAWINGS	
OWNER REVIEW	
PERMIT DRAWINGS	
CONSTRUCTION DRAWINGS	



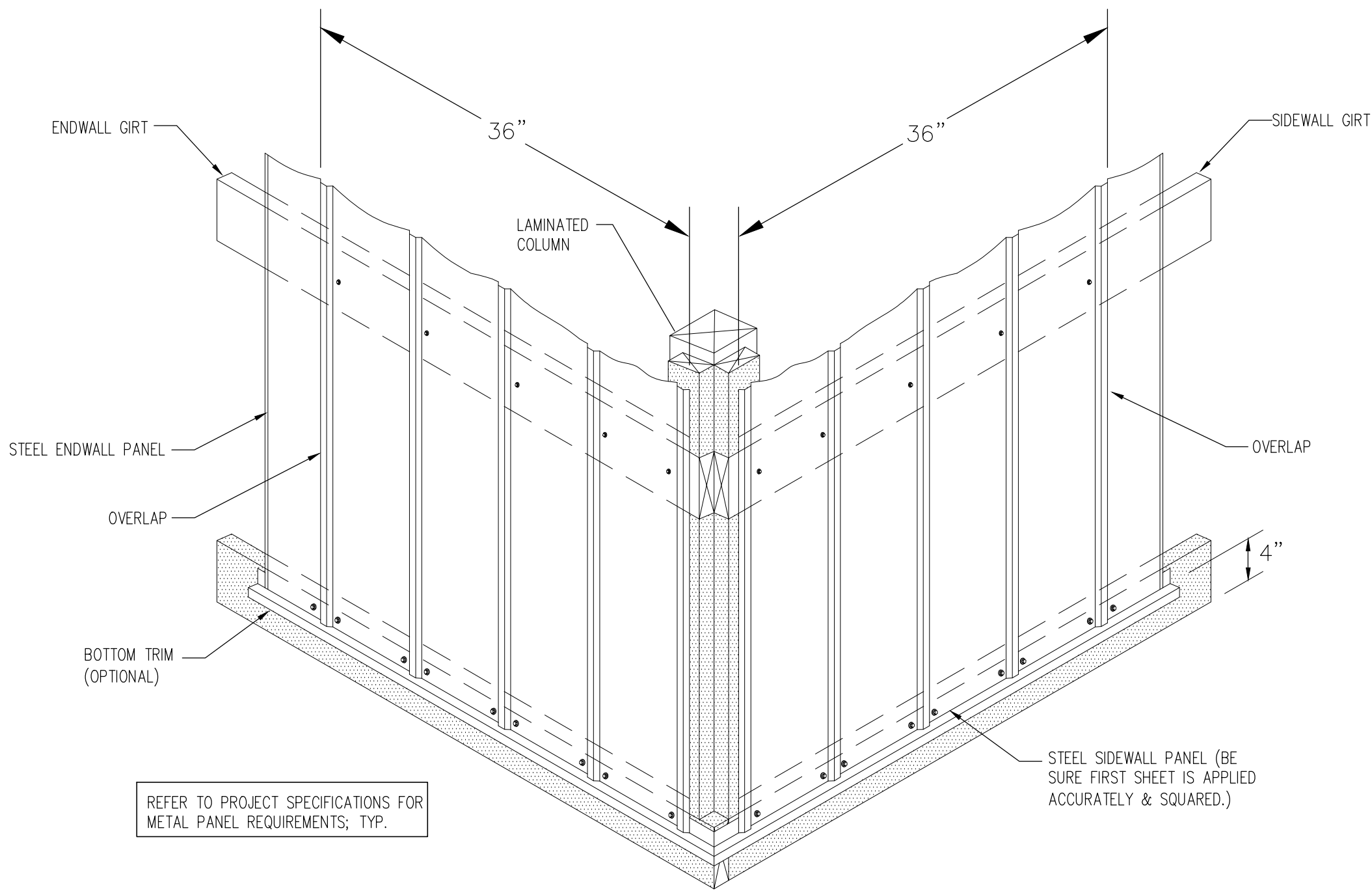
ROOF & SIDEWALL STEEL APPLICATION @ EAVE

TYPICAL DETAIL 2
3/4" = 1'-0"



ROOF & ENDWALL STEEL APPLICATION @ GABLE PEAK & INTERMEDIATE

TYPICAL DETAIL 1
3/4" = 1'-0"



WALL STEEL APPLICATION @ GRADEBOARD

TYPICAL DETAIL 3
3/4" = 1'-0"



1. ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND STANDARDS.
2. PLUMBING CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS REQUIRED FOR THEIR WORK.
3. PLUMBING CONTRACTOR TO PROVIDE ALL TRIM REQUIRED FOR A COMPLETE INSTALLATION INCLUDING STOP VALVES, TRAPS, DRAINS, AND ESCUTCHEON PLATES.
4. SANITARY AND VENT PIPING SHALL BE PER OFC CHAPTER 4 AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. ABOVE GROUND DRAINAGE AND VENT PIPE SHALL BE PER TABLE 102.1 WITH UNDERGROUND BUILDING DRAINAGE AND VENT PIPE PER TABLE 102.2. ALL FITTINGS SHALL BE PER TABLE 102.4.
5. GAS PIPING SHOWN ON THE DRAWINGS SIZED USING IFGC TABLE 402.4 (3). FOR SCH. 40 METALLIC PIPE, LESS THAN 2 PSI, PRESSURE DROP 0.5" WC. PROVIDE PIPING SUPPORTS PER IFGC CHAPTER 4. GAS PIPING INSTALLATIONS, SECTION 415, PIPING SUPPORT INTERVALS, TABLE 415.1 SUPPORT OF PIPING.

1. ALL WORK SHALL COMPLY WITH ALL STATE AND LOCAL CODES AND STANDARDS.
2. MECHANICAL CONTRACTOR SHALL SCHEDULE ALL INSPECTIONS REQUIRED FOR THEIR WORK.
3. DUCT WORK SHALL BE METAL PER THE MOST RECENT SMACNA STANDARDS AND OMC CHAPTER 6, DUCT SYSTEMS, SECTION 603, DUCT CONSTRUCTION AND INSTALLATION. ALL SUPPLY AND RETURN DUCTS SHALL BE SEALED AND INSULATED IN CONFORMANCE WITH SECTION C403.2.1 IECC-12 FOR CLIMATE ZONE 5.
4. PROVIDE ALL HANGERS AND SUPPORTS REQUIRED TO INSTALL DUCT. COORDINATE LOCATION OF DUCT WITH EXISTING STRUCTURAL MEMBERS, LIGHTS, AND ALL OTHER TRADES.
5. REFRIGERANT AND PVC VENT/ COMBUSTION AIR PIPING SHALL BE SIZED FOR LENGTH OF RUN PER MANUFACTURER'S RECOMMENDATIONS.
6. PROVIDE A PROGRAMMABLE THERMOSTAT WITH SET-BACK CONTROLS PER C403.2.4.3 IECC-12.

D-1 12/8 DUCT MOUNTED DOUBLE DEFLECTION SUPPLY AIR REGISTER
R-1 16/16 DUCT MOUNTED RETURN GRILLE

AH-I: PER OMC 502.14, MOTOR VEHICLE OPERATION, EXCEPTION 3, MECHANICAL VENTILATION PER OMC 403 SHALL NOT APPLY TO MOTOR VEHICLE GARAGE WHERE ENGINES ARE OPERATED INSIDE THE BUILDING ONLY FOR THE DURATION NECESSARY TO MOVE THE MOTOR VEHICLES IN AND OUT OF THE BUILDING.

PER CHAPTER 4, VENTILATION, SECTION 402, NATURAL VENTILATION, 402.2 VENTILATION AREA REQUIRED, THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

AREA FOR NATURAL VENTILATION = 1,265 SQ. FT.
 OPENABLE AREA REQUIRED = 1,265 SQ. FT. $\times$ 0.04 = 51 SQ. FT.
 OPENABLE AREA PROVIDED:
 (1 GARAGE DOOR (14'-0" $\times$ 14'-0")) = 196 SQ. FT.
 (1 DOOR (3'-0" $\times$ 6'-8")) = 20 SQ. FT.
 TOTAL OPENABLE AREA PROVIDED = 216 SQ. FT.

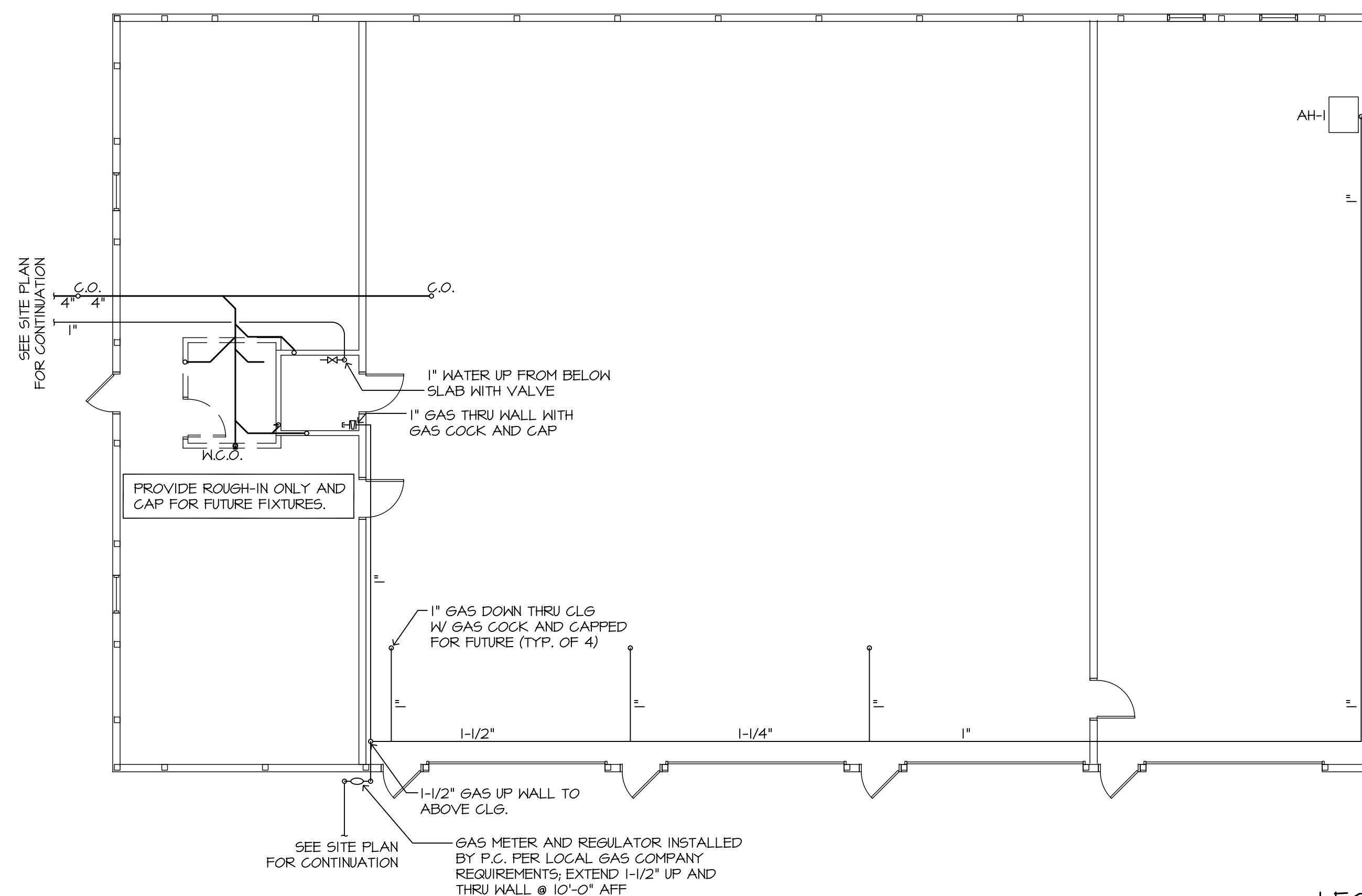
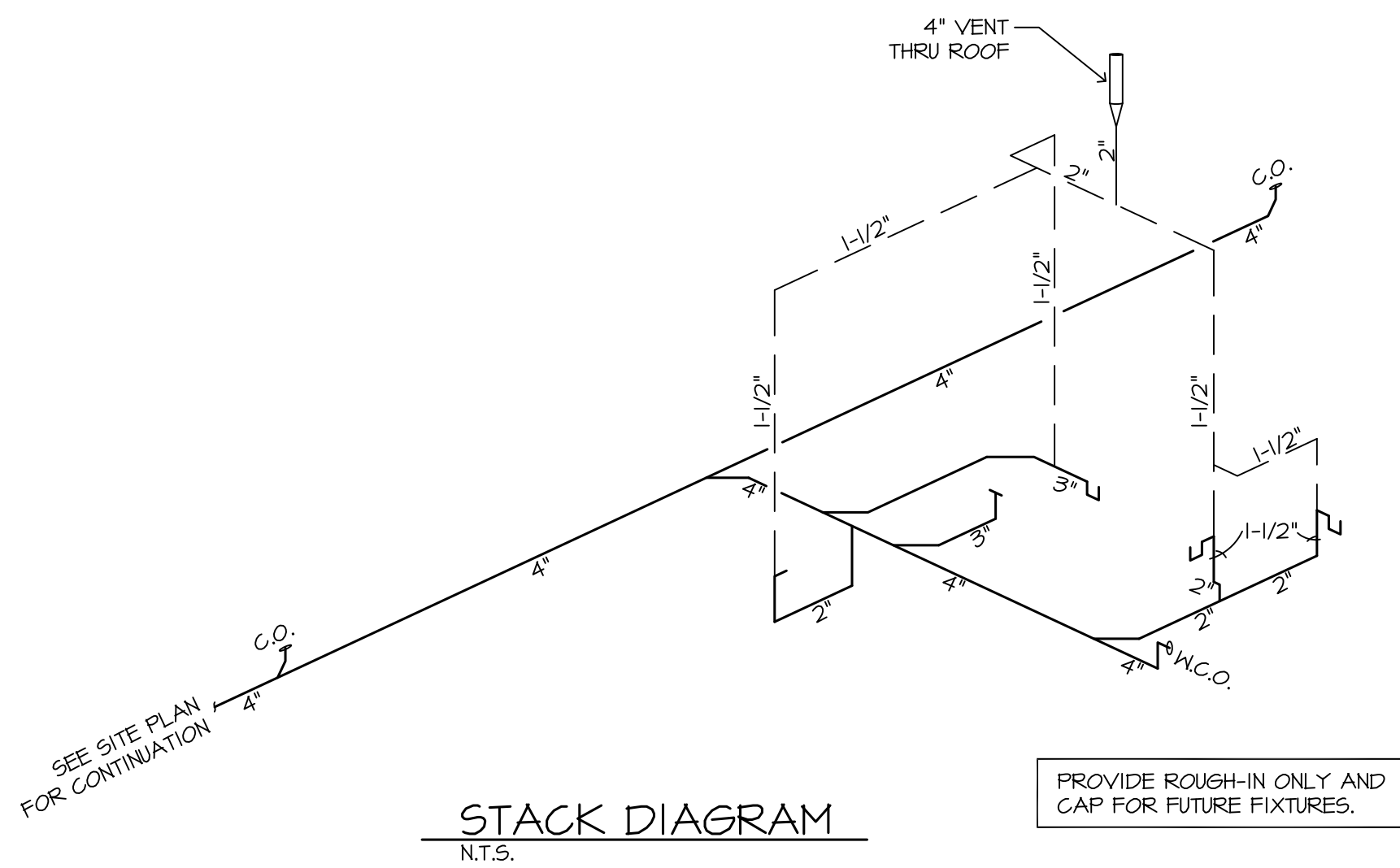
GARAGE AREA: PER OMC 502.14, MOTOR VEHICLE OPERATION, EXCEPTION 3, MECHANICAL VENTILATION PER OMC 403 SHALL NOT APPLY TO MOTOR VEHICLE GARAGE WHERE ENGINES ARE OPERATED INSIDE THE BUILDING ONLY FOR THE DURATION NECESSARY TO MOVE THE MOTOR VEHICLES IN AND OUT OF THE BUILDING.

PER CHAPTER 4, VENTILATION, SECTION 402, NATURAL VENTILATION, 402.2 VENTILATION AREA REQUIRED, THE MINIMUM OPENABLE AREA TO THE OUTDOORS SHALL BE 4 PERCENT OF THE FLOOR AREA BEING VENTILATED.

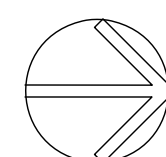
AREA FOR NATURAL VENTILATION = 3,400 SQ. FT.
 OPENABLE AREA REQUIRED = 3,400 SQ. FT. x 0.04 = 136 SQ. FT.
 OPENABLE AREA PROVIDED:
 (3 GARAGE DOORS (14'-0" x 14'-0")) = 588 SQ. FT.
 (3 DOORS (3'-0" x 6'-8")) = 60 SQ. FT.
 TOTAL OPENABLE AREA PROVIDED = 648 SQ. FT.

AH-I MIN. 92% AFUE HORIZONTAL GAS FIRED FURNACE RATED AT 1,000 CFM @ 0.5" SP, 120V, 10, 60 HZ; HEATING = 60 MMBTU INPUT WITH NATURAL GAS; COOLING = 30 MMBTU AT STD AIR CONDITIONS WITH R-410a; EXTEND PVC VENT/ COMBUSTION AIR PIPING THRU WALL WITH CONCENTRIC TERMINATION KIT SIZED PER MANUFACTURER'S RECOMMENDATIONS FOR LENGTH OF RUN; EXTEND CONDENSATE DRAINS DOWN WALL AND TO OUTSIDE AT 18" ABOVE GRADE.

CU-1 AIR COOLED CONDENSING UNIT RATED AT 30 MBH TO MATCH COOLING COIL, 24V, 1ø, 60 hz; REFRIGERANT PIPING SHALL BE SIZED PER MANUFACTURER'S RECOMMENDATIONS FOR LENGTH OF RUN.

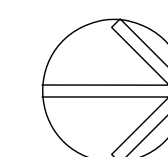
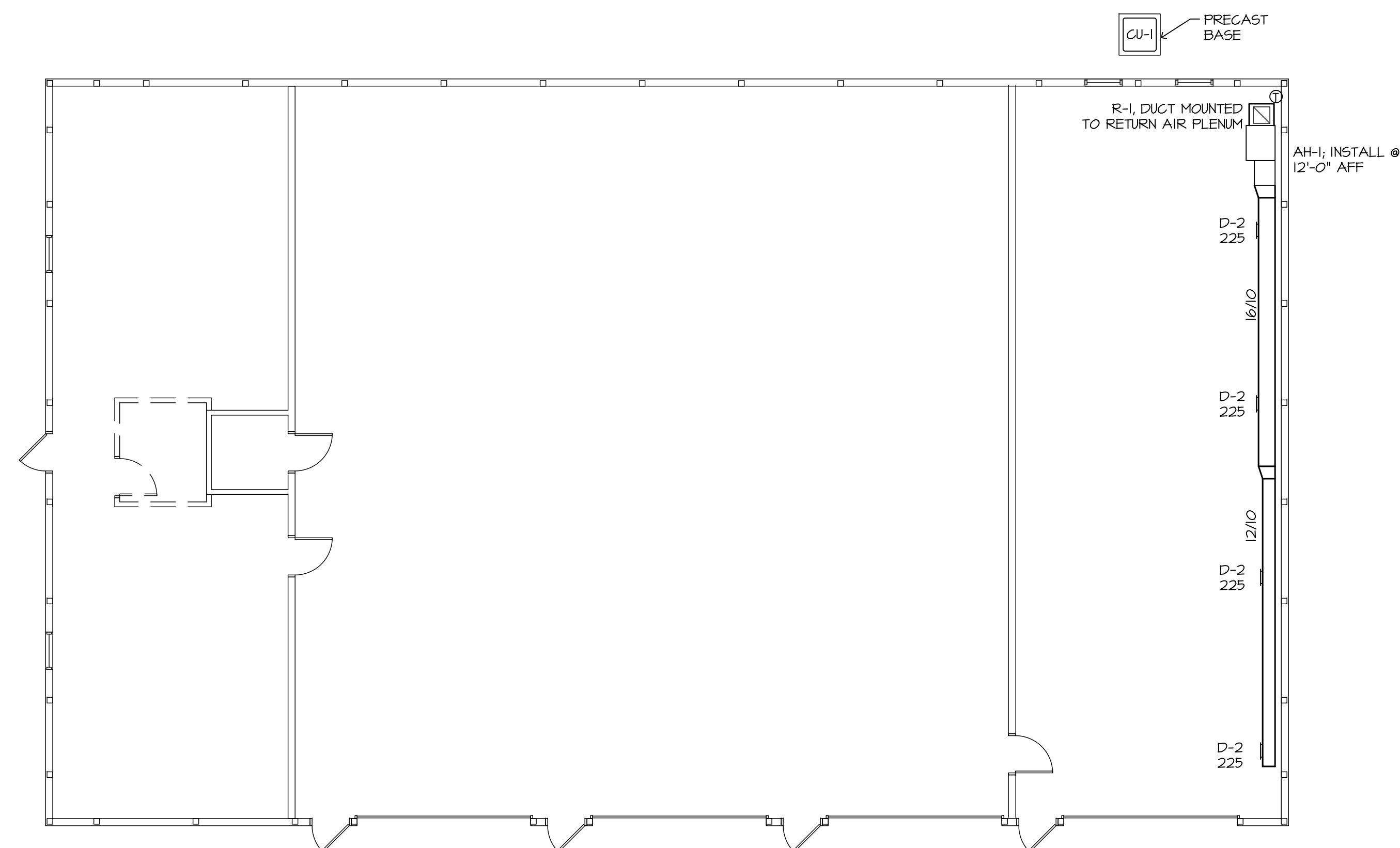


AH-1: 60,000 INPUT x 1 FURNACE = 60,000
 FUTURE UNIT HEATERS: 150,000 INPUT x 4 UNIT HEATERS = 600,000
 TOTAL CONNECTED GAS LOAD = 660,000
 GAS TO BE DELIVERED AT 7" W.C. TO EQUIPMENT.



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

_____	CW
_____	HW
_____	SAN
- - - - -	VENT
_____G_____	GAS



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

A NEW COMMERCIAL BUILDING FOR:

MOUNT VERNON OVERHEAD DOOR

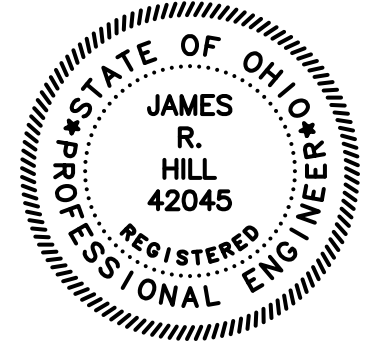
MOUNT VERNON, OH 43050
Attachment: 2021-04-27_21m01_MVO

zoning submission	☐
design development	☐
construction document	☒
bidding	☐
building permit submission	☒
not for construction	☐
record / archive	☐
other	☐

cadfile
2lm01-mp1
job no.
2lm01
drawn
HILL ENGINEERING

sheet

MP 1



prepared by
HILL ENGINEERING
3 W. Central Ave.
Delaware, Ohio 43015
740-363-0400

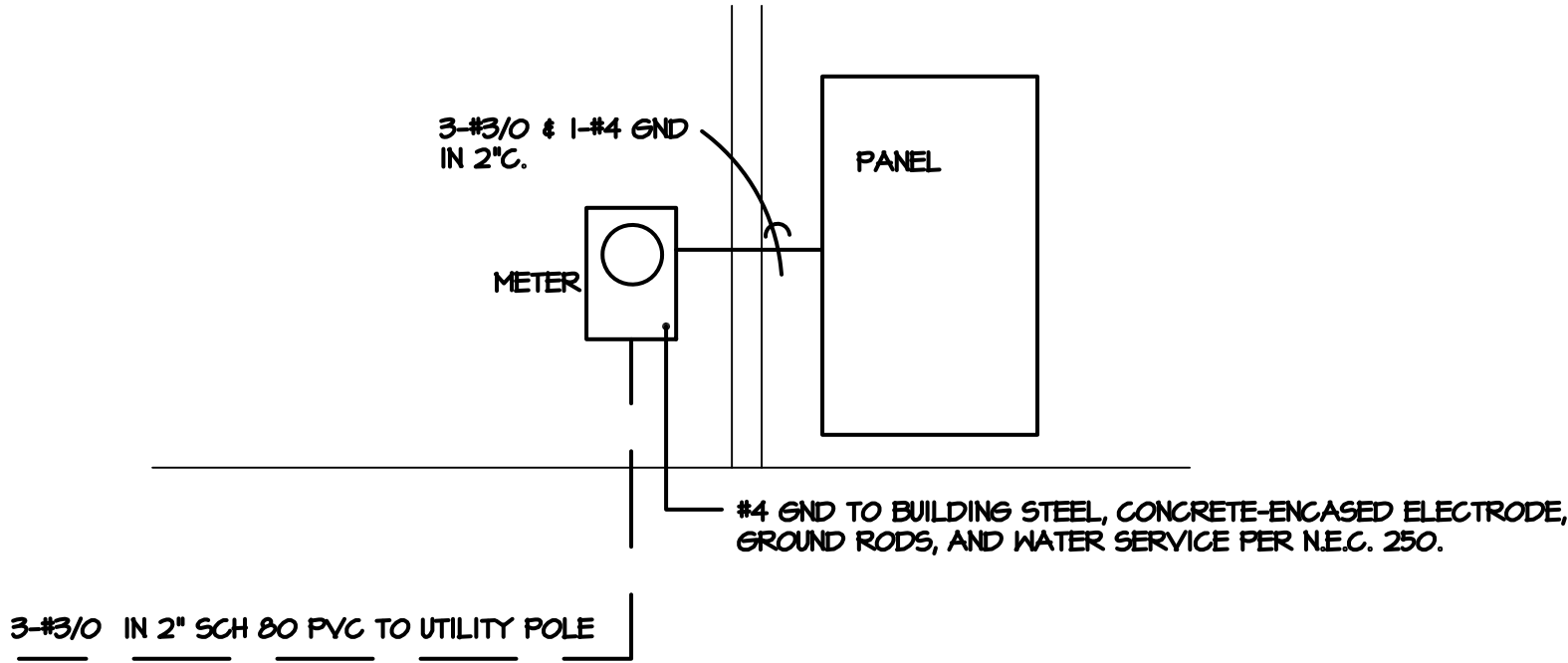
ELECTRICAL LEGEND	
SINGLE POLE SWITCH	\$
RECEPTACLE	Ⓢ
JUNCTION BOX	Ⓢ
30A MP DISCONNECT	Ⓢ
MOTOR RATED SWITCH	Ⓢ
WATER PROOF & GFI	Ⓢ
ABOVE COUNTER	Ⓢ
GROUND FAULT INTERRUPTER	Ⓢ

LIGHT FIXTURE SCHEDULE		
MARK	MANUFACTURER & MODEL	LAMPS
Ⓢ	COOPER HBLED LD5 12SE WA UNV LB40	71W LED
Ⓢ	COOPER 4NLH4040C	38W LED
Ⓢ	COOPER 45NLED LD4 45LSLW UNV LB40I	41W LED
OH	COOPER XTOR 3A W/ PHOTOCELL	26W LED
Ⓢ	COOPER APCHT W/ APRI REMOTE	LED
Ⓢ	COOPER APCL	LED
\$	1-10V LED DIMMER W/ ON-OFF SWITCH	
Ⓢ	PIR WALL MOUNT VACANCY DETECTOR W/ SWITCH COOPER ONW4D-1001-MV	

EXIT/EMERGENCY FIXTURES SHALL HAVE 90 MIN. EMERGENCY BATTERY

ELECTRICAL GENERAL NOTES

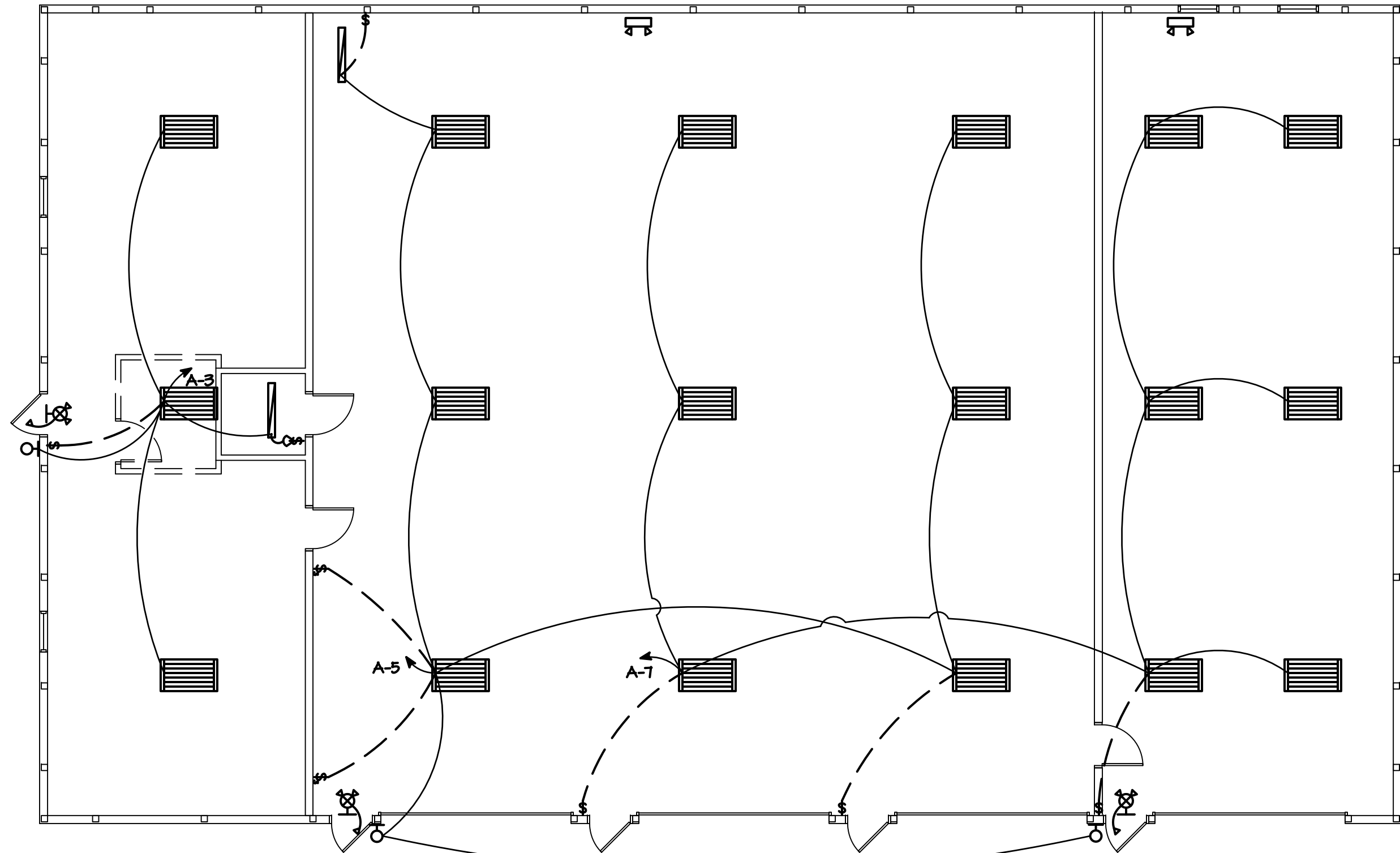
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PROVISIONS OF THE NATIONAL ELECTRICAL CODE.
- CONNECT ALL EMERGENCY AND EXIT LIGHTS TO LOCAL CIRCUITS AHEAD OF SWITCHING.
- ALL WIRING SHALL BE COPPER TYPE THHN OR THWN MINIMUM SIZE #12 AND SHALL BE RUN IN EMT OR RIGID CONDUIT. MC CABLE SHALL BE ACCEPTABLE FOR SWITCH AND RECEPTACLE WIRING IN OFFICE AREAS.
- LABEL INCOMING SERVICE PER N.E.C. 110.16 & N.E.C. 110.24(A).
- RUN EXTERIOR LIGHTING CIRCUITS THROUGH PHOTOCELLS.
- RUN 3-#2 & 1-#6 GND IN 1-1/4" C. TO PANEL B.



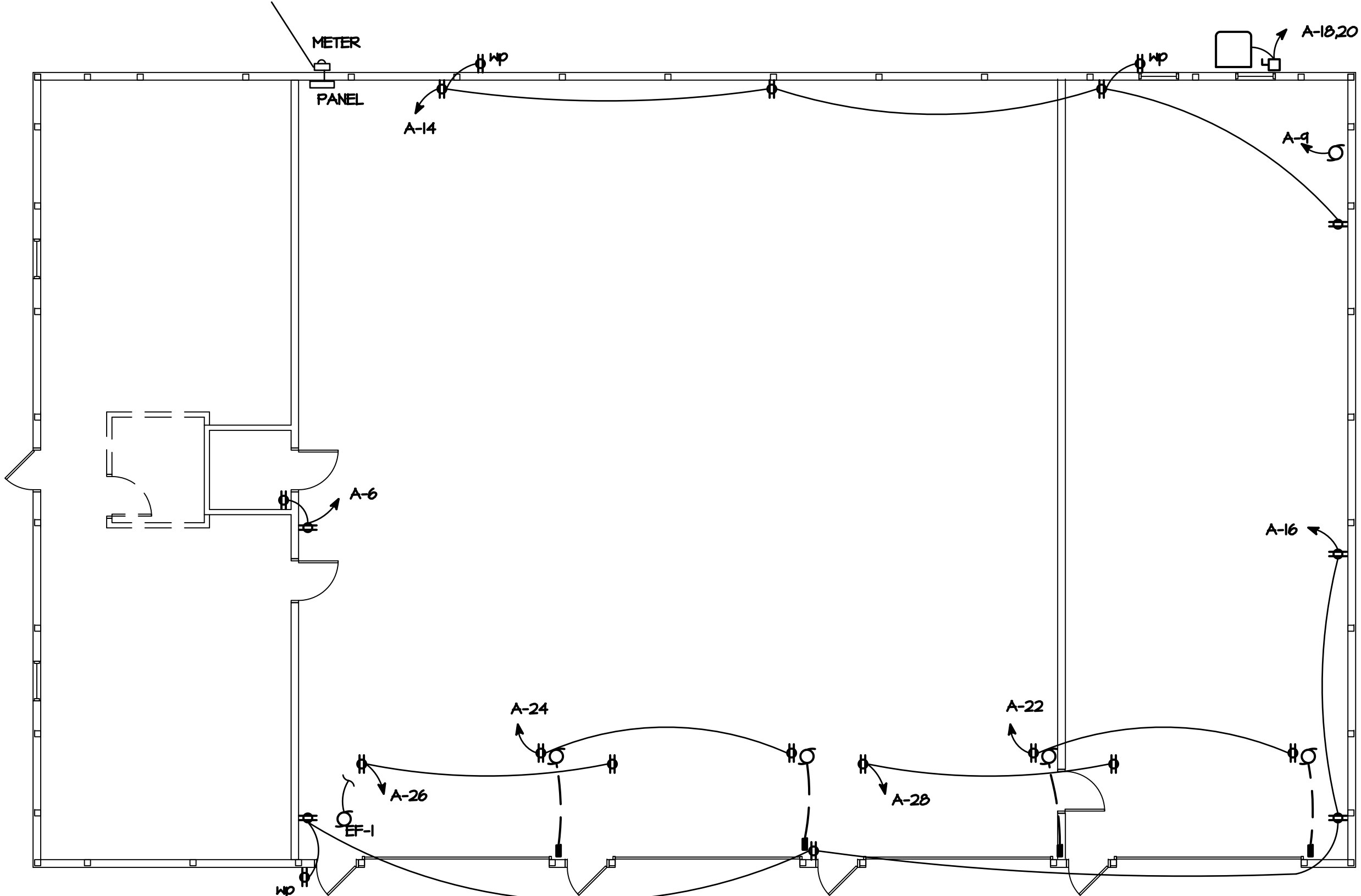
ELECTRIC RISER
NO SCALE

PANEL A									
SURFACE MOUNTED 120/240 VOLT 1Ø 3 WIRE 60 HZ 200 AMP MAIN BREAKER W/ SOLID NEUTRAL & GROUND- 10,000 A.I.C.									
LOAD	CB/P	CKT	WIRE	WIRE	CKT	CB/P	LOAD	CB/P	CKT
SPARE	20/1	1	12	12	2	20/1	SPARE	20/1	1
LIGHTS	20/1	3	12	12	4	20/1	SPARE	20/1	2
LIGHTS	20/1	5	12	12	6	20/1	RECEPT	20/1	3
LIGHTS	20/1	7	12	12	8	20/1	SPARE	20/1	4
FURNACE	20/1	4	12	12	10	20/1	SPARE	20/1	5
SPARE	20/2	11	12	12	12	20/1	RECEPT	20/1	6
		13	12	12	14	20/1	RECEPT	20/1	7
SPARE	20/1	15	12	12	16	20/1	RECEPT	20/1	8
SPARE	20/1	17	10	10	18	25/2	COND UNIT		
SPARE	20/1	14			20				
SPARE	20/1	21	12	12	22	20/1	OH DOOR		
SPARE	20/1	23	12	12	24	20/1	OH DOOR		
SPACE		25	12	12	26	20/1	UNIT HEATER		
		27	12	12	28	20/1	UNIT HEATER		
		29			30		SPACE		
		31			32				
		33			34				
		35			36				
		37			38				
		39			40				
		41			42				

PANEL LOAD = 175 KW = 73 A @ 240V, 1Ø



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



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

GREEN VALLEY DESIGN, LLC
112 Harcourt Rd., Suite 5
Mount Vernon, Ohio 43050
740-397-2282

A NEW COMMERCIAL BUILDING FOR:
**MOUNT VERNON
OVERHEAD DOOR**
810 N. SANDUSKY ST.
MOUNT VERNON, OH 43050
Attachment: 2021-04-27_21m01_INV0HDoor_PermitDWG (2337 : 2021-B2a-08)

APRIL 27, 2021
zoning submission ☐
design development ☐
construction document ☒
bidding ☐
building permit submission ☐
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E1