

GENERAL PROJECT NOTES

1. THE WORK SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND NATIONAL CODES.
2. FIELD VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING ANY DEMOLITION, FABRICATION, OR CONSTRUCTION WORK.
3. ALL DIMENSIONS AND ELEVATIONS NOTED AS "(REF)" ARE FOR REFERENCE ONLY AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO USING THEM FOR ANY DEMOLITION OR CONSTRUCTION ACTIVITIES.
4. CONTRACTOR SHALL REVIEW AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. ANY CONDITIONS NOT DOCUMENTED ON THESE DRAWINGS OR OBSERVED TO BE DIFFERENT THAN THOSE SHOWN ON THESE DRAWINGS ARE TO BE REPORTED TO THE ARCHITECT/ENGINEER AND OWNER PRIOR TO COMMENCING THE WORK.
5. CONTRACTOR SHALL SUBMIT ALL NOT ALREADY SUBMITTED PERMIT DOCUMENTS, QUALIFICATIONS, ETC. AND BE RESPONSIBLE FOR ALL FEES ASSOCIATED WITH PERMITS, UTILITY EXTENSIONS, TAP-INSPECTIONS, ETC. THE ARCHITECT/ENGINEER SHALL SUBMIT CONSTRUCTION DOCUMENTS FOR OWNER'S REVIEW AND PERMIT PLAN REVIEW; HOWEVER, THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING THE PERMITS, AND ALL ASSOCIATED PERMIT AND INSPECTION COSTS/FEES.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS RESULTING FROM DEMOLITION AND CONSTRUCTION WORK ON THIS PROJECT.
7. EACH SUB-CONTRACTOR IS RESPONSIBLE TO COORDINATE AND SCHEDULE THEIR WORK WITH THE GENERAL CONTRACTOR, AND ALL OTHER CONTRACTORS WHOSE WORK WILL BE AFFECTED BY THEIR WORK.

Code Compliance Data

Applicable Codes:

2017 Ohio Building Code (OBC), with August 2018 Updates
2017 Ohio Fire Code (OFC)
2017 Ohio Plumbing Code (OPC), with August 2018 Updates
2017 Ohio Mechanical Code (OMC), with August 2018 Updates
2017 National Electrical Code (NEC)
Accessible and Usable Buildings and Facilities: ICC/ANSI A117.1-2009

OBC Chapter 34 - Existing Buildings and Structures

It is the intent of this project to comply with the requirements of the code for new construction to the extent of the renovations and alterations to this existing storage building (OBC 3404.1).

OBC Chapter 3 - Use and Occupancy Classification

Existing Use Description: Moderate-Hazard Storage, Group S-1
Proposed Use Description: This building will be used by the City of Oberlin to store vehicles, electrical wiring and spare equipment
Proposed Use Classification: Moderate-Hazard Storage, Group S-1 (NO CHANGE) (OBC 311.2)

OBC Chapter 5 - General Building Heights and Areas

Allowable Building Heights and Number of Stories (OBC Section 504)

Allowable Height = 55 feet (OBC Table 504.3)
Actual Height = 20 feet

Allowable Stories = 2 Stories (OBC Table 504.4)
Actual Stories = 1 Story

Allowable Building Area (OBC Section 506)

Allowable Area = 26,000 SF (OBC Table 506.2)
Actual Gross Building Area = 4,056 SF

OBC Chapter 6 - Types of Construction

Existing Construction Classification: IIB (OBC 602.2) - Unchanged for this building renovation project

Fire Resistance Rating Requirements for Building Elements (OBC Table 601)

Primary Structural Frame	0 Hours
Exterior Bearing Walls	0 Hours
Interior Bearing Walls	0 Hours
Exterior Non-Bearing Walls and Partitions (OBC Table 602)	
x<5	2 Hour
5≤x<10'	1 Hour
10'≤x<30'	0 Hours
x≥30'	0 Hours
Interior Non-Bearing Walls and Partitions	0 Hours
Floor Construction and Secondary Membranes	0 Hours
Roof Construction and Secondary Membranes	0 Hours

OBC Chapter 9 - Fire Protection Systems

Automatic Sprinkler Systems (OBC Section 903)

The existing building space is NOT equipped with an automatic sprinkler system.

Portable Fire Extinguishers (OBC Section 906)

Size and Distribution of Portable Fire Extinguishers (OBC 906.3)
Assume Class A / Ordinary (Moderate) Hazard (verify with Owner)

Minimum Rated Single Extinguisher	2-A
Maximum Floor Area Per Unit of "A"	3,000 SF
Maximum Travel Distance	75 Feet

See floor plan for proposed extinguisher location. Final locations shall be per City of Oberlin Fire Department recommendations.

OBC Chapter 10 - Means of Egress

Occupant Load - OBC Section 1004

Maximum Floor Area Allowances Per Occupant (OBC Table 1004.1.1)
Accessory storage areas = 1 Occupant Per 300 Gross SF

Total (Calculated) Occupant Load = 14 Occupants

Number of Exits and Exit Access Doorways (OBC Section 1006)

Number of Exits Required: 2 (OBC 1006.3.1)
Number of Exits Provided: 2 (See Plan)

Exit Access Travel Distance - OBC Section 1017

Maximum Allowable (OBC Table 1017.2): 200 Feet
Maximum Actual: < 75 Feet

OBC Chapter 29 - Plumbing Systems

This storage building is generally unoccupied.
Employee toilet room facilities are provided elsewhere on site with 500 feet walking distance.

RENOVATION

OF

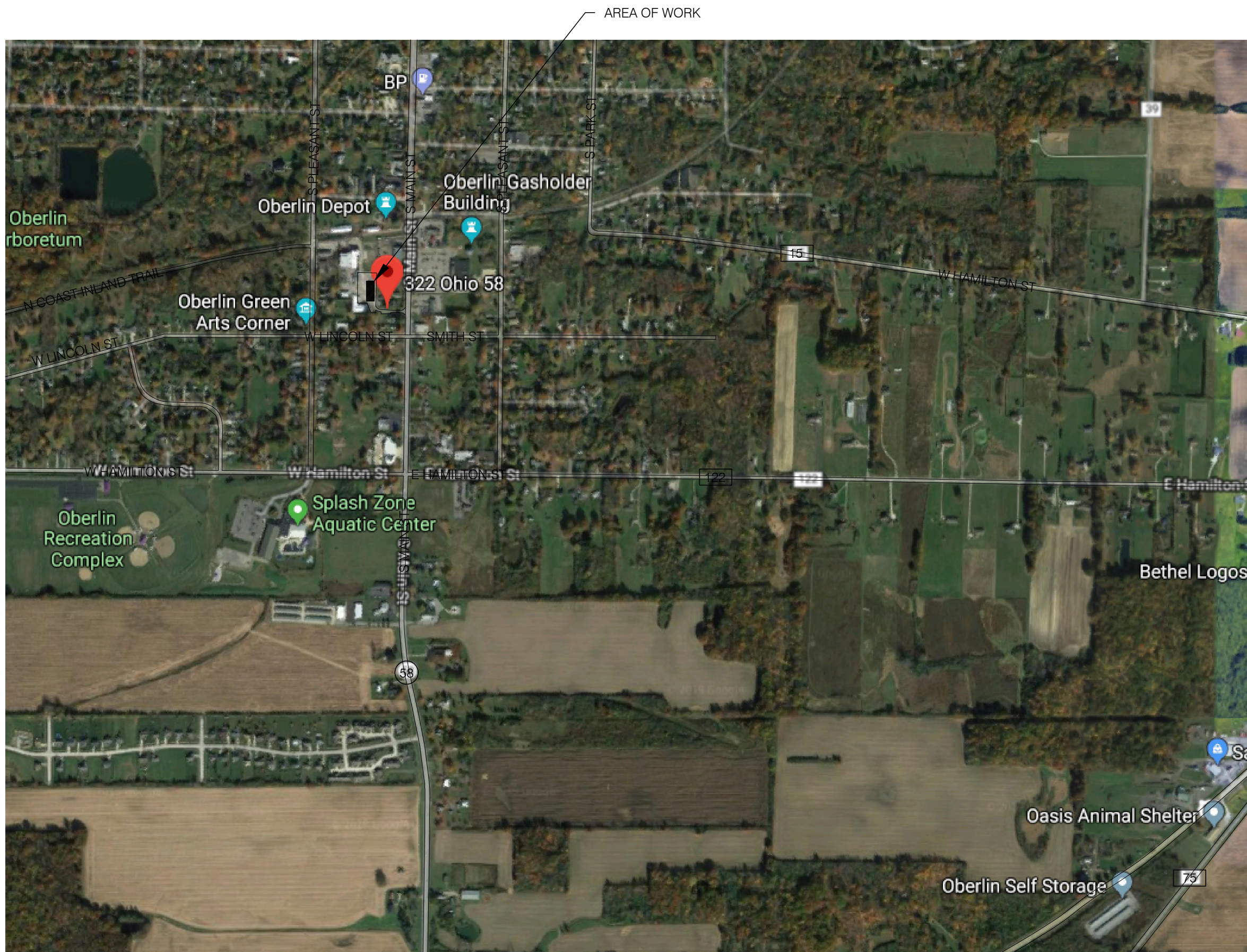
STORAGE BUILDING
REHABILITATION

Oberlin Municipal Light and Power System

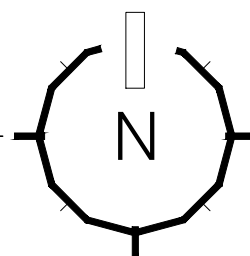
AT

322 S. MAIN ST OBERLIN, OH. 44074

BID ISSUE



SITE PLAN
SCALE: NTS

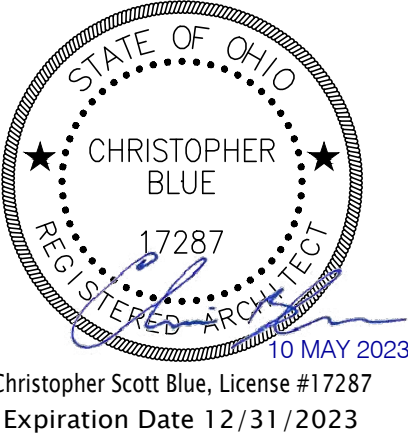


DRAWING INDEX

Drawing No.	Rev.	Issue Date	Drawing Title
T1.0		05.10.2023	Cover / Title Sheet
D1.0		05.10.2023	Demolition Floor Plan
A1.0		05.10.2023	Floor Plan
A2.0		05.10.2023	Exterior Elevations and Door Details
A3.0		05.10.2023	Building Cross-Sections and Wall Sections
A4.0		05.10.2023	Structural Notes and Details
E1.0		05.10.2023	Electrical Power and Lighting Floor Plan

CONSTRUCTION DOCUMENTS FOR THIS PROJECT INCLUDE THE FOLLOWING TECHNICAL SPECIFICATION SECTIONS:

011000 - SUMMARY
012500 - SUBSTITUTION PROCEDURES
013000 - ADMINISTRATIVE REQUIREMENTS
013216 - CONSTRUCTION PROGRESS SCHEDULE
014000 - QUALITY REQUIREMENTS
014216 - DEFINITIONS
015000 - TEMPORARY FACILITIES AND CONTROLS
015813 - TEMPORARY PROJECT SIGNAGE
016000 - PRODUCT REQUIREMENTS
016116 - VOLATILE ORGANIC COMPOUND (VOC) CONTENT RESTRICTIONS
017000 - EXECUTION AND CLOSEOUT REQUIREMENTS
017800 - CLOSEOUT SUBMITTALS
074113 - METAL ROOF PANELS
074213 - METAL WALL PANELS
081113 - HOLLOW METAL DOORS AND FRAMES
083613 - SECTIONAL DOORS
087100 - DOOR HARDWARE
099600 - HIGH-PERFORMANCE COATINGS



Oberlin Municipal
Light and Power
System

322 S. MAIN ST. OBERLIN, OH 44074

Storage Building
Rehabilitation

322 S. MAIN ST. OBERLIN, OH 44074

Cover/Title Sheet

Issue/Revision:

0 01.27.2023 PERMIT ISSUE
- 05.10.2023 BID ISSUE

Project Number: 50530118
Design by: CSB/SCR
Drawn by: DEM/SCR
Checked by: PET

UNDERGROUND UTILITIES

Contact Two Working Days
Before You Dig

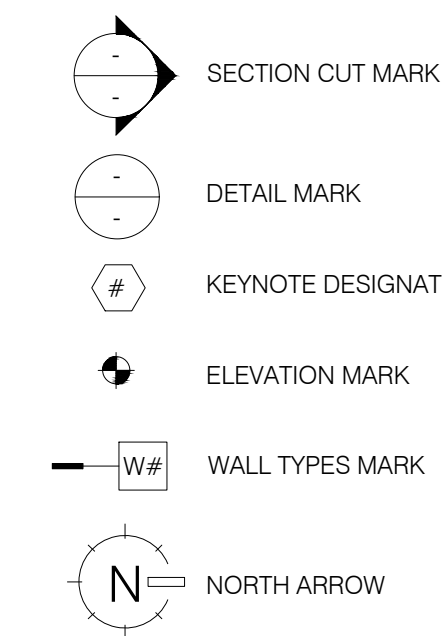


OH10811, 8-1-1, or 1-800-362-2764
(N n-members must be called directly)

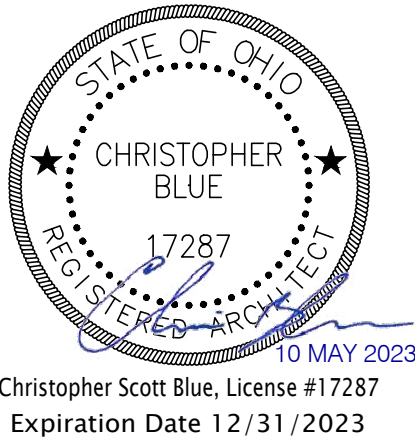
ABBREVIATIONS

@ Ø	AT DIAMETER
AFF ALUM	ABOVE FINISHED FLOOR ALUMINUM
BLDG	BUILDING
CL CONC	CENTERLINE CONCRETE
DEMO DO	DEMOLITION DOOR OPENING
EA EQ EXST	EACH EQUAL EXISTING
FTG	FOOTING
H HLS HM	HEIGHT HOLES HOLLOW METAL
MFR MAX	MANUFACTURER MAXIMUM
OBC OC	OHIO BUILDING CODE ON CENTER
REF RO	REFERENCE ROUGH OPENING
SF SPEC	SQUARE FOOT / FEET SPECIFICATIONS
TYP	TYPICAL
W/ WP W	WITH WORKPOINT WIDTH

SYMBOLS LEGEND



T1.0



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Demolition Floor Plan

Issue/Revision:
0 01.27.2023 PERMIT ISSUE
- 05.10.2023 BID ISSUE

Project Number: 50530118
Design by: CSB/SCR
Drawn by: DEM/SCR
Checked by: PET

D1.0

DEMOLITION KEYNOTES:

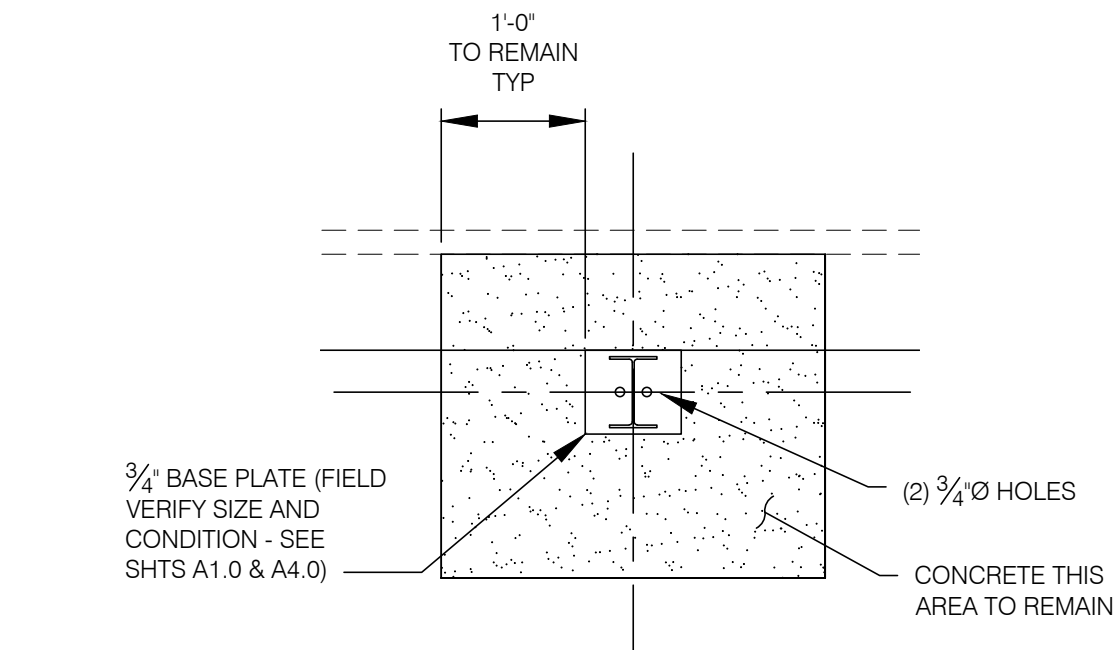
1. REMOVE ALL METAL SIDING AND ROOFING PANELS ALONG WITH GUTTERS AND DOWNSPOUTS
2. REMOVE PERSONNEL DOOR AND FRAME OR OVERHEAD DOOR, TRACK AND OPERATING HARDWARE
3. REMOVE GIRT WALL FRAMING AS NECESSARY TO ACCOMMODATE NEW OVERHEAD DOOR OPENING; SEE ARCHITECTURAL FLOOR PLAN AND STRUCTURAL DRAWINGS
4. REMOVE 6" CONCRETE FLOOR AS SHOWN - SEE DETAIL THIS SHEET FOR SLAB MATERIAL TO REMAIN
5. REMOVE EXISTING EXTERIOR CONCRETE PAD
6. REMOVE ELECTRICAL PANEL AND DISCONNECT SWITCH
7. REMOVE WINDOW UNIT INCLUDING GLAZING AND FRAMING MATERIALS
8. REMOVE CRANE BEAM, VERIFY LOCATION WITH OWNER

NOTES:

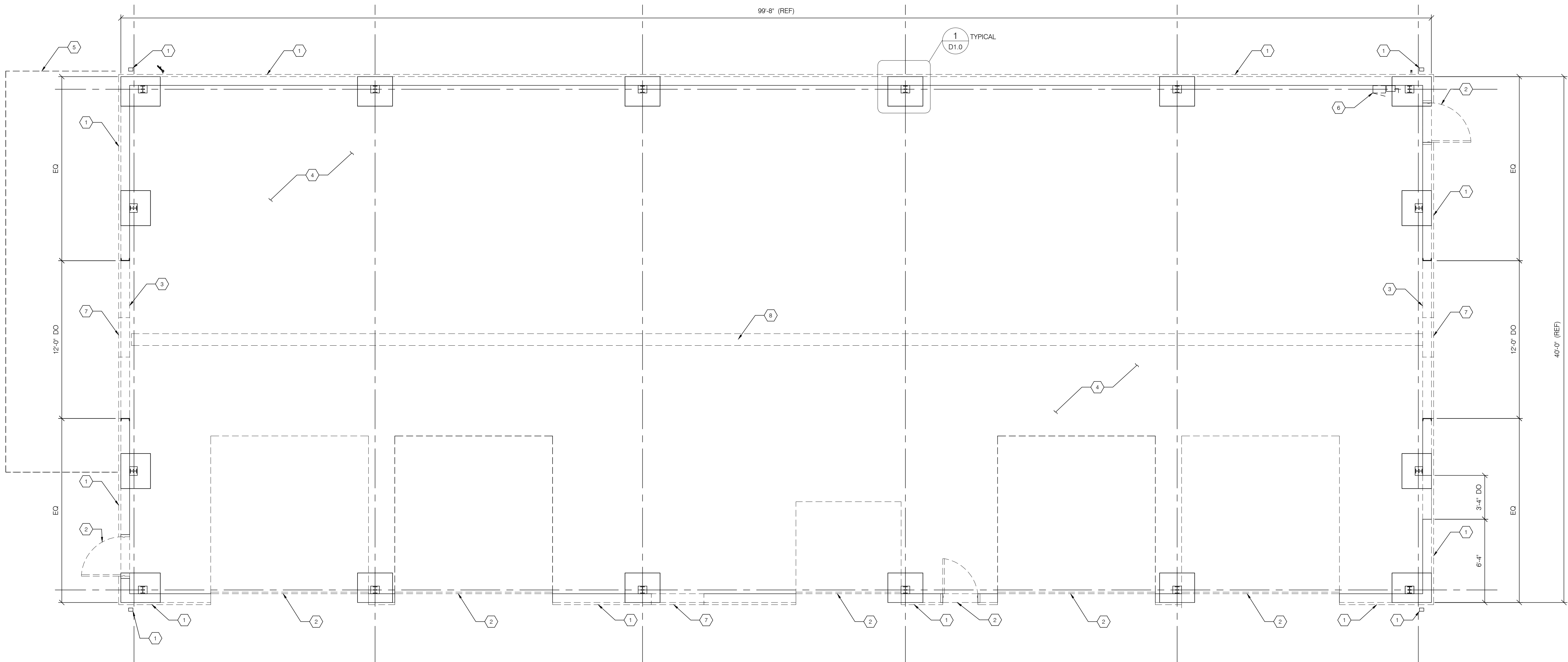
1. SEE SHEET T1.0 FOR DRAWING INDEX.
2. SEE SHEET T1.0 FOR ABBREVIATIONS AND SYMBOLS LEGEND.

GENERAL DEMOLITION NOTES:

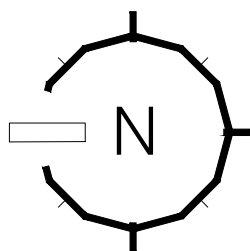
1. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO DEMOLITION ACTIVITIES.
2. CONTRACTOR IS ADVISED THAT CARE IS TO BE EXERCISED DURING UNDERGROUND EXCAVATION. IN THE EVENT THAT UNCHARTED UTILITIES ARE PRESENT AND ENCOUNTER, IMMEDIATELY INFORM THE OWNER AND ENGINEER. PRIOR TO RECEIVING FURTHER INSTRUCTIONS PERFORM ANY NECESSARY MODIFICATIONS TO MAKE THE EXISTING SITUATION SAFE.
3. CONTRACTOR TO CONTACT LANDLORD TO VERIFY ALL EXISTING ITEMS TO REMAIN UNDISTURBED PRIOR TO THE START OF DEMOLITION.
4. ANY EXISTING UTILITY INFORMATION DEPICTED ARE APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL EXISTING UTILITIES A MINIMUM OF TWO (2) WORKING DAYS BEFORE ANY EXCAVATION OCCURS ON SITE AND PRIOR TO THE INSTALLATION OF NEW UTILITIES BY COORDINATING LAYOUT AND INSTALLATION WITH OUPS (OHIO UTILITIES PROTECTION SERVICE) AT 1-800-362-2764 AND OHIO OIL AND GAS PRODUCERS UNDERGROUND PROTECTION SERVICE AT 1-800-925-0988.
5. IF DURING THE CONSTRUCTION INTERFERENCES ARISE WITH EXISTING UTILITIES, THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY INVOLVED. THE CONTRACTOR SHALL NOTIFY, AT LEAST SEVEN (7) DAYS BEFORE BREAKING GROUND, ALL PUBLIC SERVICE ENTITIES HAVING WIRE, POLES, PIPES, CONDUITS, MANHOLES, OR OTHER STRUCTURES THAT MAY BE AFFECTED BY THIS OPERATION, INCLUDING ALL STRUCTURES WHICH ARE AFFECTED AND NOT SHOWN ON THESE DRAWINGS.
6. ALL AREAS DISTURBED OR DAMAGED OUTSIDE THE LIMITS OF CONSTRUCTION SHALL BE REPAIRED AT NO COST TO THE OWNER, AND TO THE SATISFACTION OF THE OWNER.



1 EXIST FLOOR SLAB DEMO LIMITS @ COLUMN
D1.0 SCALE: 3/4" = 1'-0"



DEMOLITION FLOOR PLAN
SCALE: 1/4" = 1'-0"





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Light and Power
System

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Storage Building Rehabilitation

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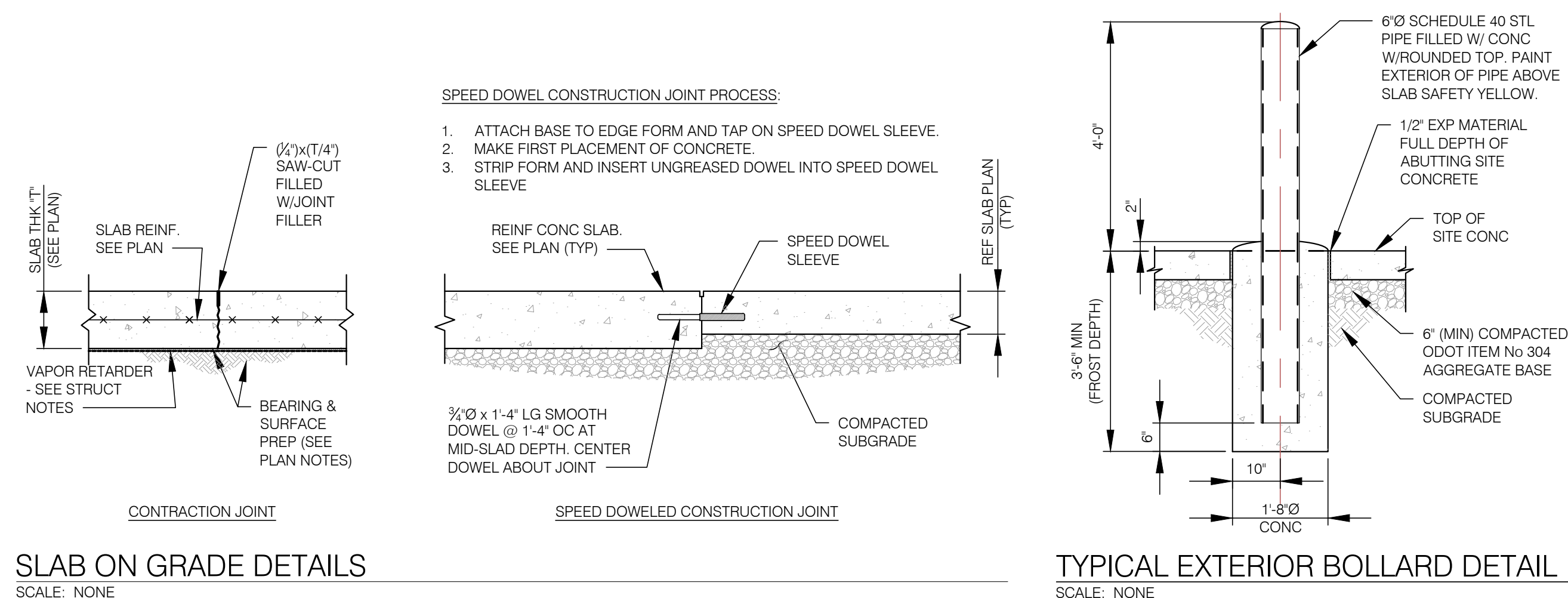
Floor Plan

Issue/Revision:

0	01.27.2023	PERMIT ISSUE
-	05.10.2023	BID ISSUE

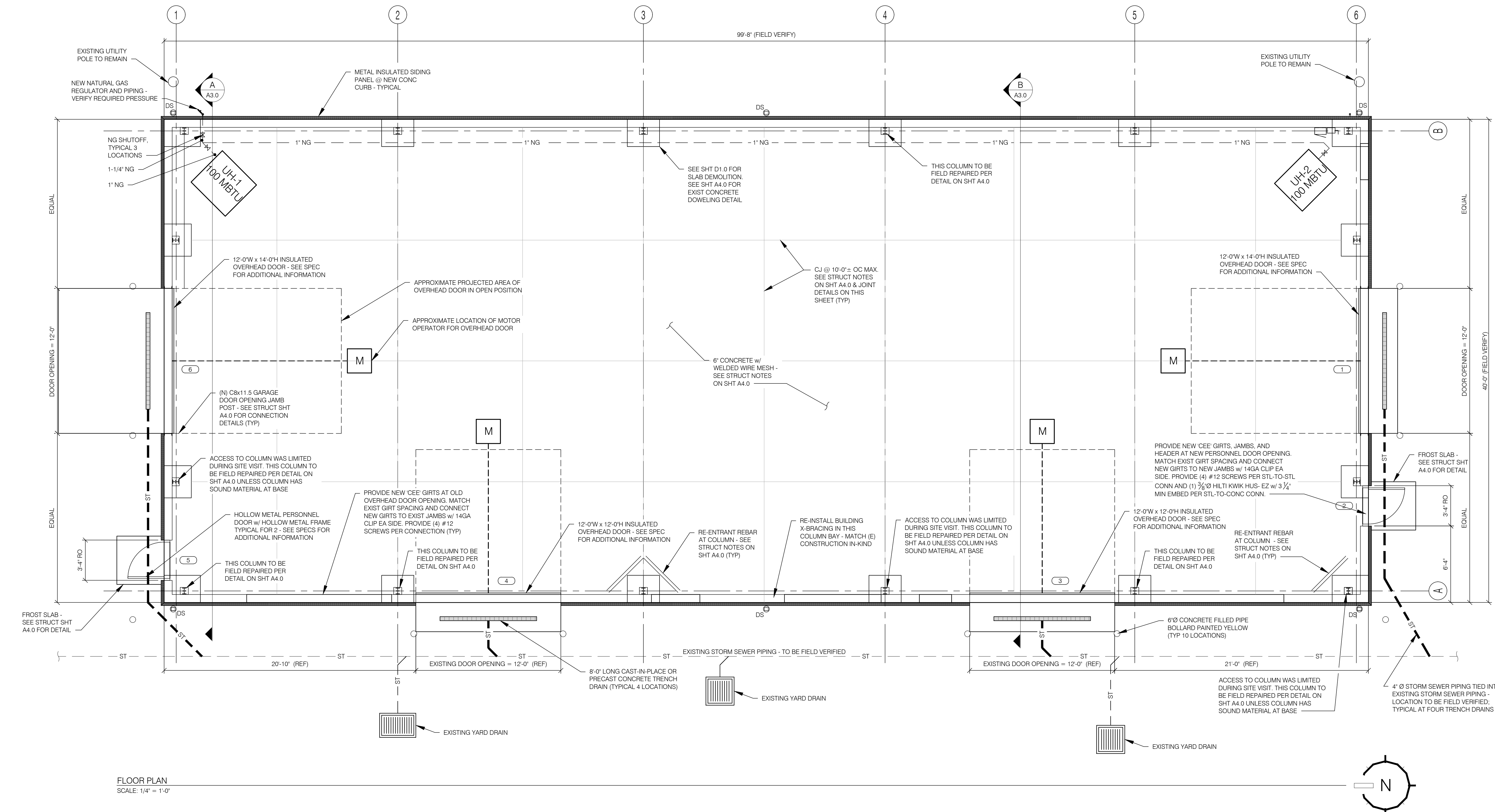
Project Number: 50530118
Design by: CSB/SCR
Drawn by: DEM/SCR
Checked by: PET

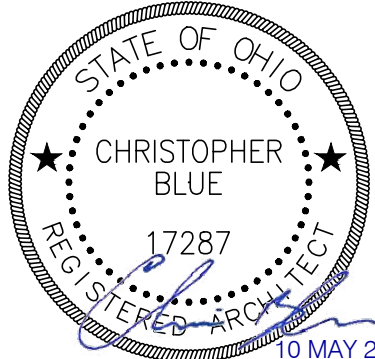
A1.0



DOOR & HARDWARE SCHEDULE																			
OPENING		DOOR						FRAME			HARDWARE							NOTES	
# No	FIRE RATING LBL-HRS	TYPE	SIZE W x H x TH	MAT	TYPE	MAT	DETAILS			1 1/2 PR BUTTS	LOCKSET	CLOSER (ACTIVE LEAF)	THRESHOLD	WEATHER STRIPPING	KICK PLATE	CARD READER	EXIT DEVICE	SILENCERS	
							HEAD	JAMB	SILL										
1	-	S	12'-0" x 14'-0"	STL	CHAN	STL	3/A3.0	4/A3.0	5/A3.0	●				●					1
2	-	F	3'-0" x 7'-0" x 1 3/4"	HM	STD	HM	1/A2.0	2/A2.0	3/A2.0	●	●	●	●	●					1, 2
3	-	S	12'-0" x 12'-0"	STL	CHAN	STL	3/A3.0	4/A3.0	5/A3.0	●				●					1
4	-	S	12'-0" x 12'-0"	STL	CHAN	STL	3/A3.0	4/A3.0	5/A3.0	●				●					1
5	-	F	3'-0" x 7'-0" x 1 3/4"	HM	STD	HM	1/A2.0	2/A2.0	3/A2.0	●	●	●	●	●					1, 2
6	-	S	12'-0" x 14'-0"	STL	CHAN	STL	3/A3.0	4/A3.0	5/1/2000	●				●					1

DOOR & HARDWARE SCHEDULE NOTES:
1. ALL EXTERIOR DOORS TO BE INSULATED; SEE TECHNICAL SPECIFICATIONS.
2. ALL HOLLOW METAL DOORS AND FRAMES TO COME FACTORY PRIMED THEN FIELD PAINTED





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Exterior Elevations and
Door Details

Issue/Revision:
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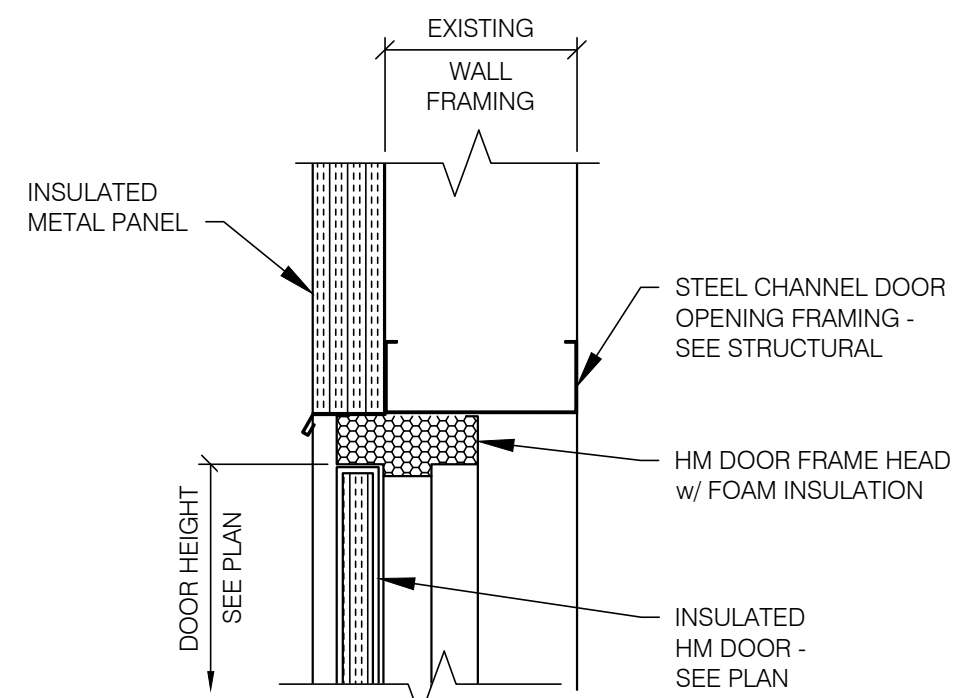
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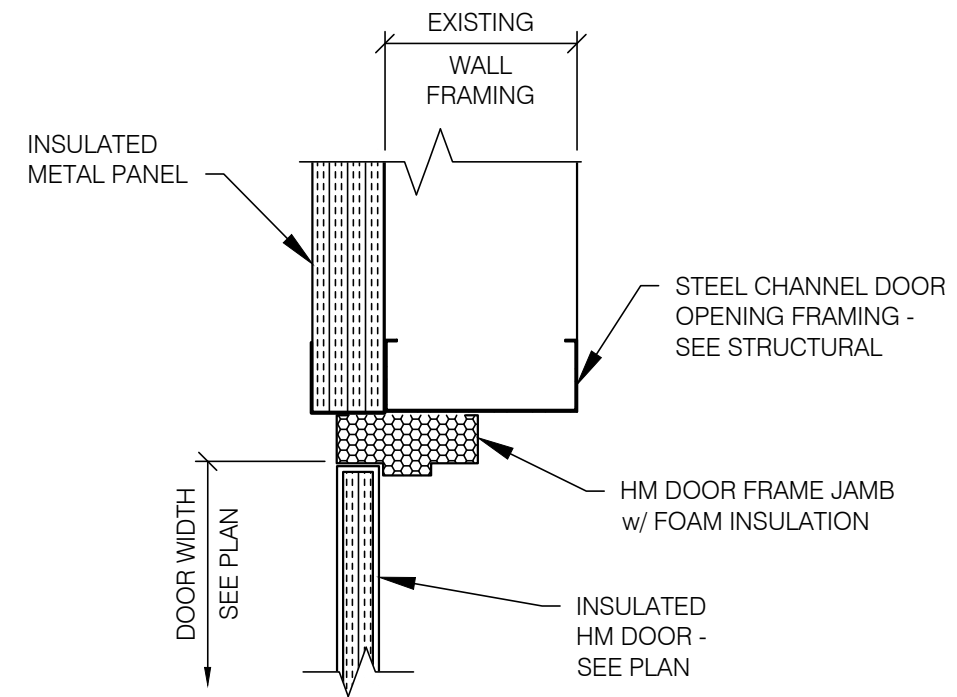
- SEE SHEET T1.0 FOR DRAWING INDEX.
- SEE SHEET T1.0 FOR ABBREVIATIONS AND SYMBOLS LEGEND.
- SEE SHEET A4.0 FOR STRUCTURAL NOTES AND TYPICAL DETAILS.

ELEVATION KEYNOTES:

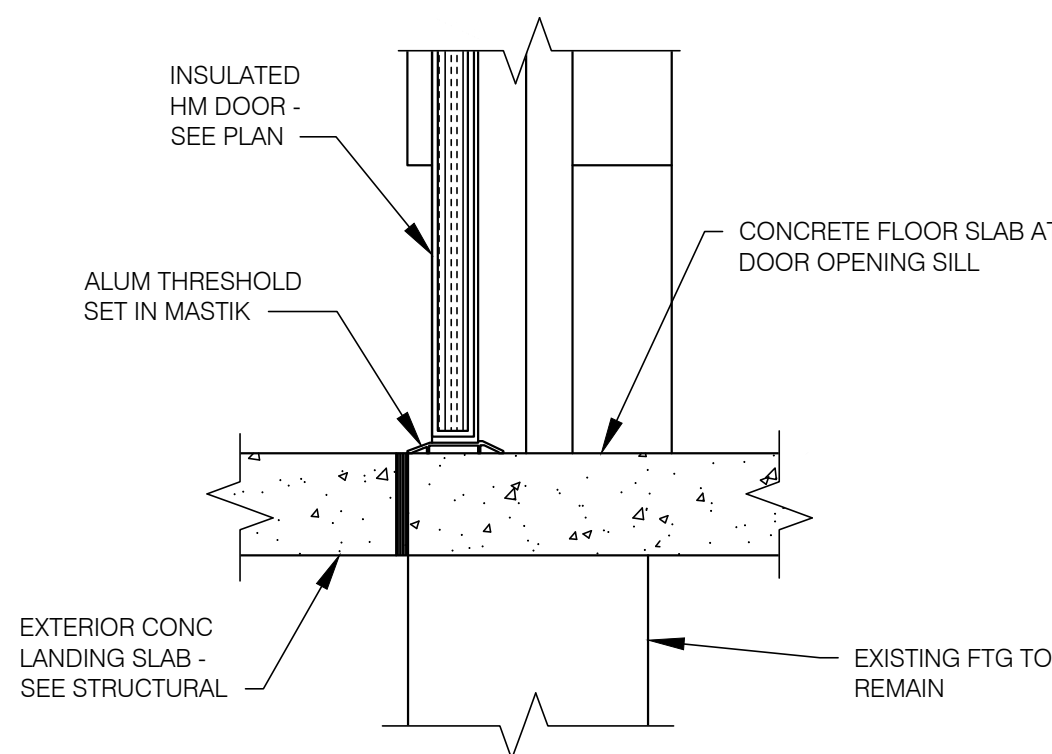
- PREFINISHED INSULATED METAL ROOF PANEL ATTACHED TO EXISTING ROOF FRAMING JOISTS. SEE SPEC #074113, METAL ROOF PANELS, COLOR: WHITE, OWNER APPROVED
- PREFINISHED INSULATED METAL WALL PANEL ATTACHED TO EXISTING WALL FRAMING GIRTS. SEE SPEC #074213, METAL WALL PANELS, COLOR: MATCH EXISTING BLUE, OWNER APPROVED
- INSULATED HOLLOW METAL PERSONNEL DOOR AND FRAME. SEE SPEC #081113, HOLLOW METAL DOORS AND FRAMES, COLOR WHITE, OWNER APPROVED
- INSULATED METAL OVERHEAD DOOR WITH TRACK ATTACHED TO EXISTING (OR NEW) CHANNEL DOOR OPENING FRAMING, AND WITH TRACK BRACKETS AND MOTOR OPERATOR ATTACHED TO EXISTING ROOF FRAMING MEMBERS. SEE SPEC #083613, SECTIONAL DOORS, COLOR WHITE, OWNER APPROVED
- PREFINISHED SHEET METAL GUTTER AND DOWNSPOUTS. GUTTER SYSTEM COMPATIBLE WITH WALL AND ROOF PANEL SYSTEM AS RECOMMENDED BY PANEL MANUFACTURER, COLOR WHITE, OWNER APPROVED
- PREFINISHED SHEET METAL TRIM PER SIDING/ROOFING PANEL MANUFACTURER, COLOR AS NOTED
- UNIT HEATER FLUE STACK THRU ROOF; FURNISH AND INSTALL PER MANUFACTURER'S INSTRUCTIONS.
- COMBINATION EXHAUST FAN LOUVER/DAMPER. SEE SPEC #089100
- AIR-INTAKE LOUVER/DAMPER. SEE SPEC #089100



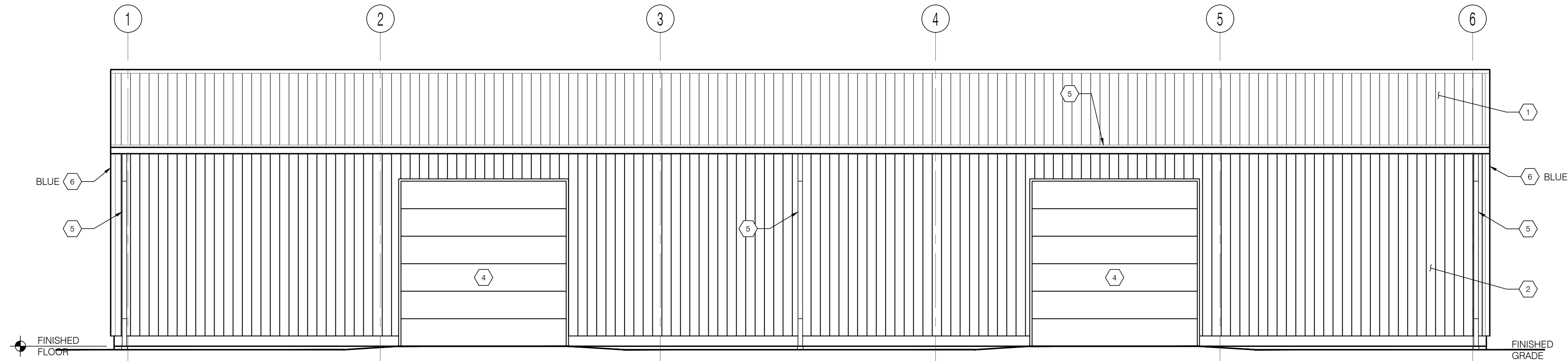
1 DOOR HEAD DETAIL @ INSULATED METAL PANEL
A2.0 SCALE: 1 1/2" = 1'-0"



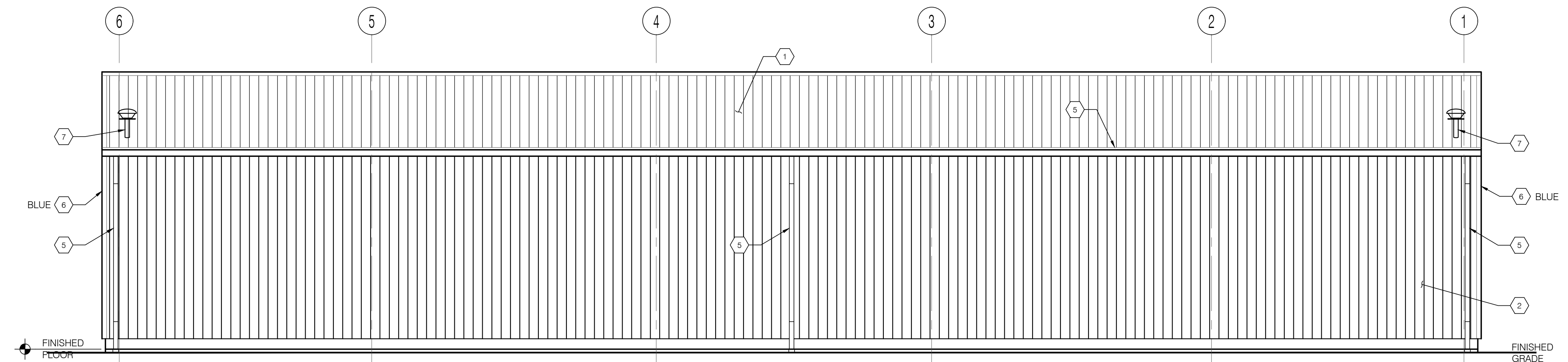
2 DOOR JAMB DETAIL @ INSULATED METAL PANEL
A2.0 SCALE: 1 1/2" = 1'-0"



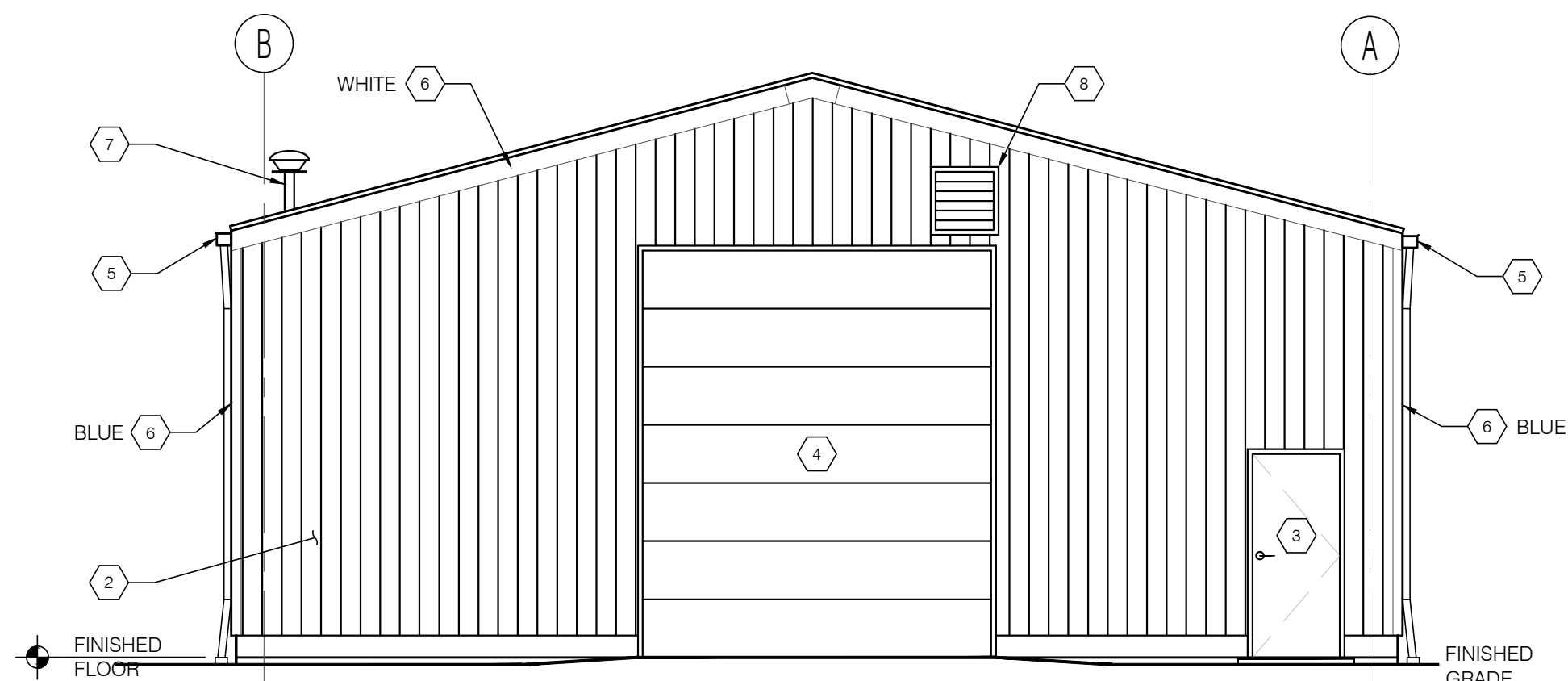
3 DOOR SILL DETAIL @ INSULATED METAL PANEL
A2.0 SCALE: 1 1/2" = 1'-0"



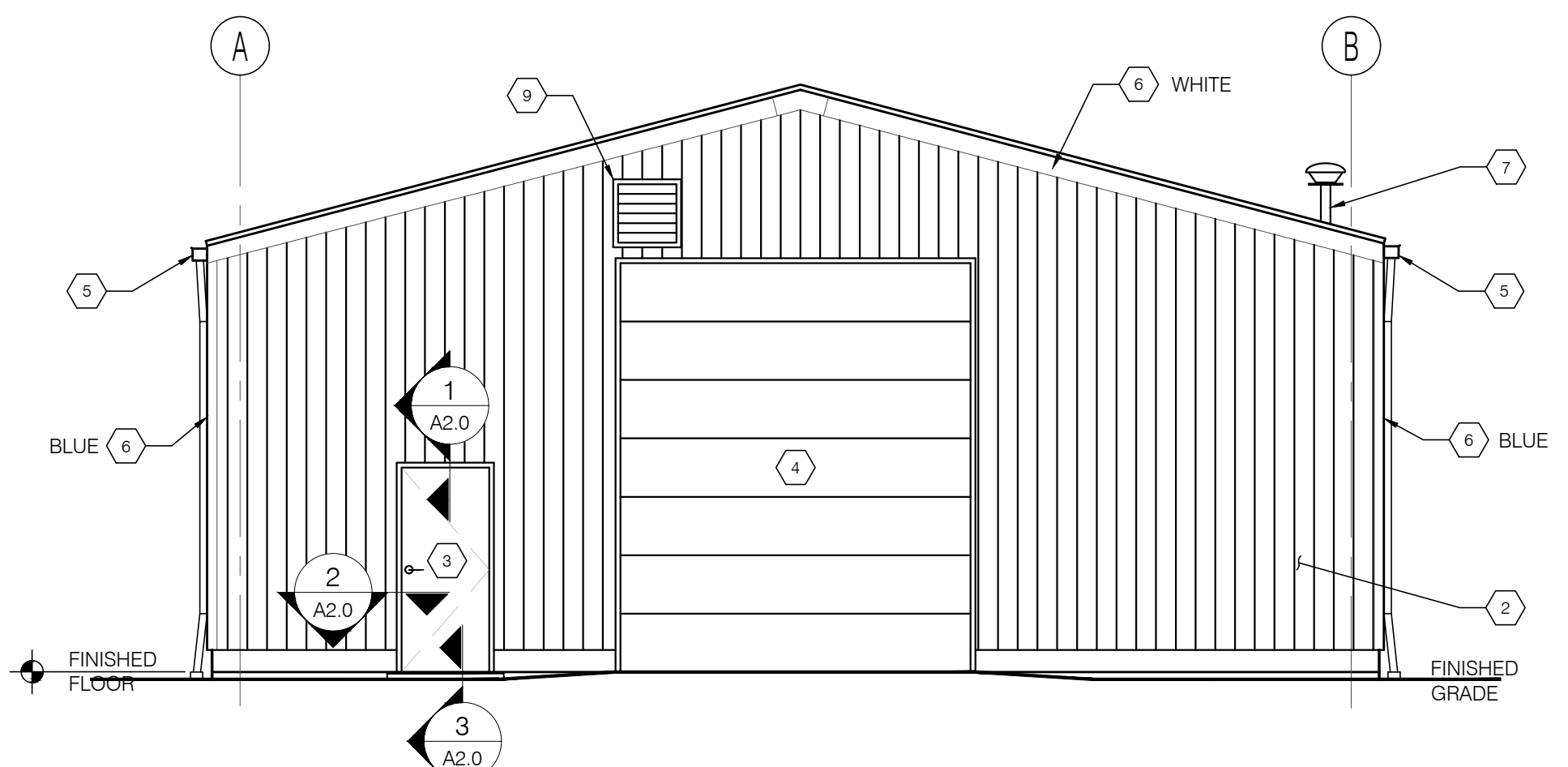
WEST ELEVATION
SCALE: 3/16" = 1'-0"



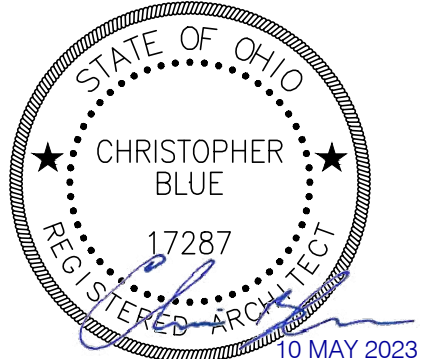
EAST ELEVATION
SCALE: 3/16" = 1'-0"



NORTH ELEVATION
SCALE: 3/16" = 1'-0"



SOUTH ELEVATION
SCALE: 3/16" = 1'-0"



Christopher Scott Blue, License #17287
Expiration Date 12/31/2023

Oberlin Municipal
Light and Power
System

322 S. MAIN ST. OBERLIN, OH 44074

Storage Building
Rehabilitation

322 S. MAIN ST. OBERLIN, OH 44074

Building Cross-Sections
and Wall Sections

Issue/Revision:
0 01.27.2023 PERMIT ISSUE
- 05.10.2023 BID ISSUE

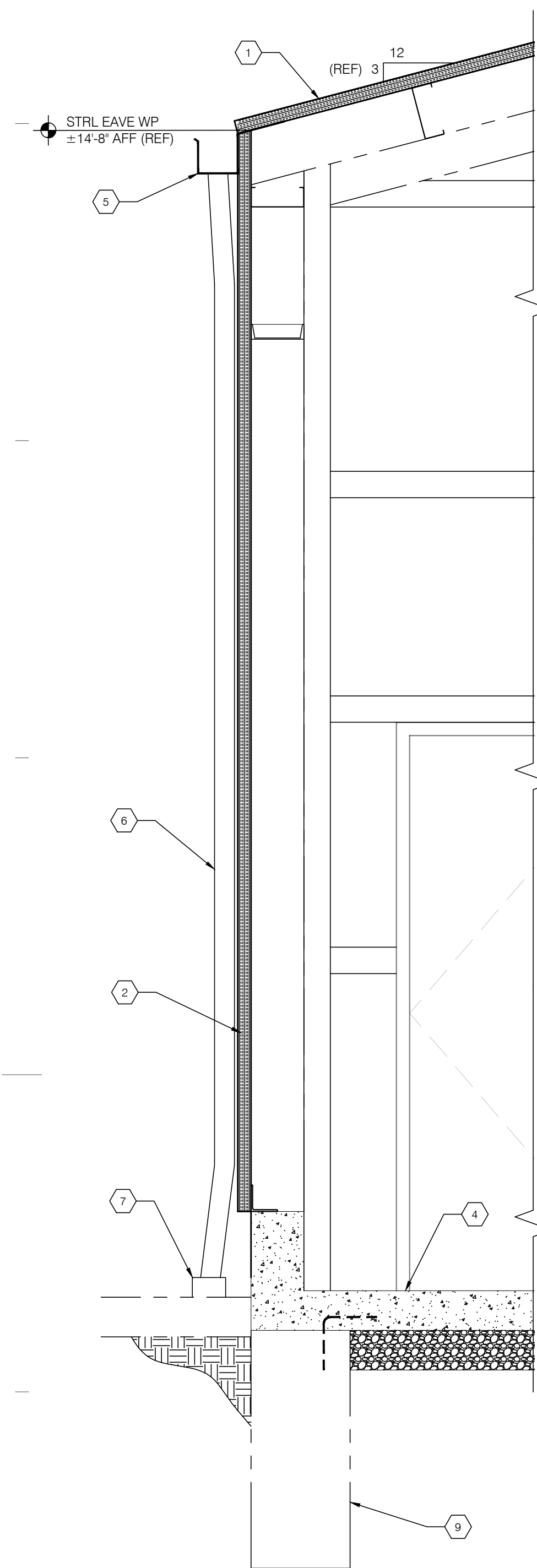
Project Number: 50530118
Design by: CSB/SCR
Drawn by: DEM/SCR
Checked by: PET

SECTION KEYNOTES:

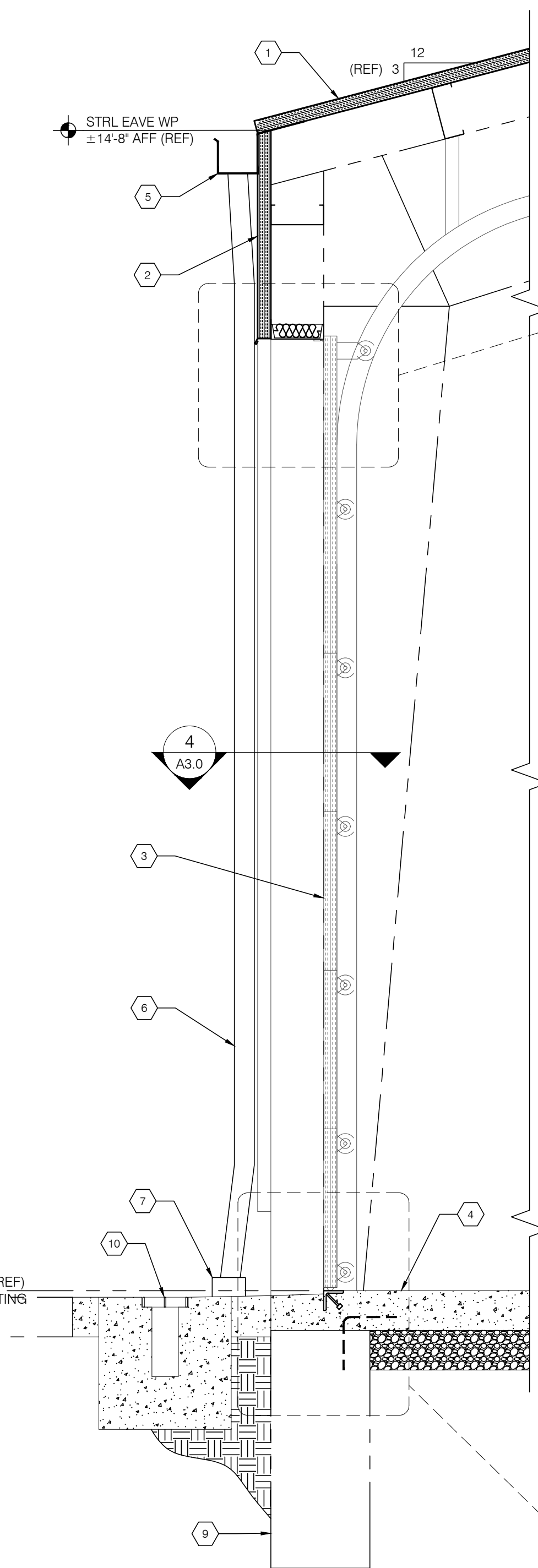
1. PREFINISHED INSULATED METAL ROOF PANEL ATTACHED TO EXISTING ROOF FRAMING JOISTS. SEE SPEC #074113, METAL ROOF PANELS
2. PREFINISHED INSULATED METAL WALL PANEL ATTACHED TO EXISTING WALL FRAMING GIRTS: SEE SPEC #074213, METAL WALL PANELS
3. INSULATED METAL OVERHEAD DOOR WITH TRACK ATTACHED TO EXISTING (OR NEW) CHANNEL DOOR OPENING FRAMING, AND WITH TRACK BRACKETS AND MOTOR OPERATOR ATTACHED TO EXISTING ROOF FRAMING MEMBERS. SEE SPEC #083613, SECTIONAL DOORS
4. 6" CONCRETE FLOOR SLAB (AND 12" HIGH x 8" WIDE CURB ALL AROUND - OMIT CURBS AT DOOR OPENINGS) OVER VAPOR BARRIER MEMBRANE ON COMPACTED GRAVEL BASE - SEE SHT A4.0 FOR ADDITIONAL INFO
5. PREFINISHED SHEET METAL GUTTER SYSTEM COMPATIBLE WITH WALL AND ROOF PANEL SYSTEM AS RECOMMENDED BY PANEL MANUFACTURER
6. PREFINISHED SHEET METAL DOWNSPOUTS, CONNECTED TO EXISTING STORM LINE
7. STORM SEWER BOOT SIZED TO RECEIVE DOWNSPOUT
8. EXISTING METAL BUILDING SYSTEM STRUCTURAL FRAMING MEMBER TO BE REFINISHED - SEE SHT A4.0 FOR ADDITIONAL INFO
9. EXISTING WALL FOOTING TO REMAIN. VERIFY THAT FOOTING WAS NOT DAMAGED DURING FLOOR DEMOLITION ACTIVITIES; IF FOUND TO BE IN SOUND CONDITION, INSTALL L-SHAPED REBAR DOWELS INTO EXISTING FOOTING (WITH EPOXY ADHESIVE) THAT WILL PROJECT INTO THE NEW CONCRETE FLOOR SLAB - SEE SHT A4.0 FOR ADDITIONAL INFO
10. TRENCH DRAIN STRUCTURE (OUTSIDE EACH OVERHEAD DOOR TYPICAL)

NOTES:

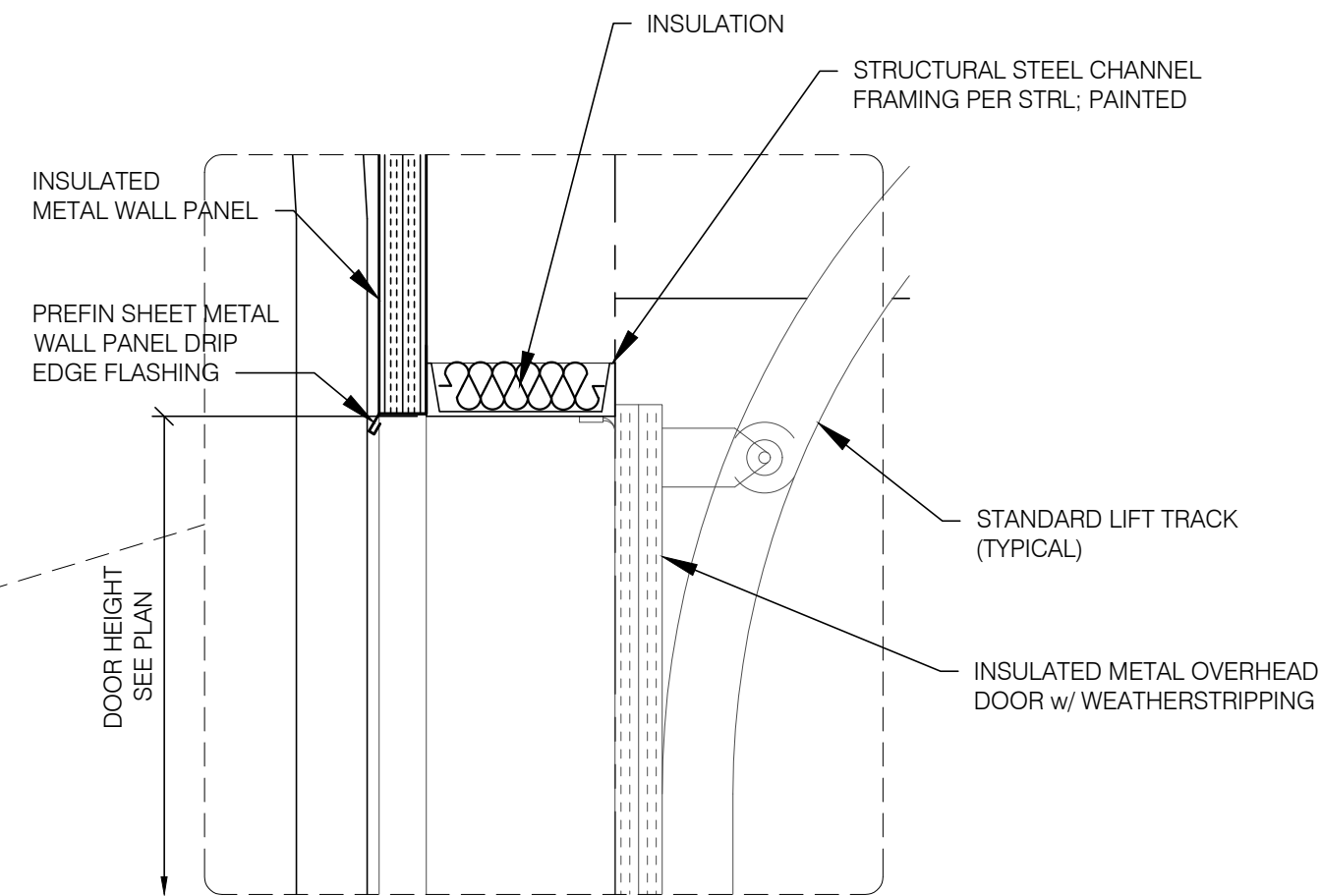
1. SEE SHEET T1.0 FOR DRAWING INDEX.
2. SEE SHEET T1.0 FOR ABBREVIATIONS AND SYMBOLS LEGEND.
3. SEE SHEET A4.0 FOR STRUCTURAL NOTES AND TYPICAL DETAILS.



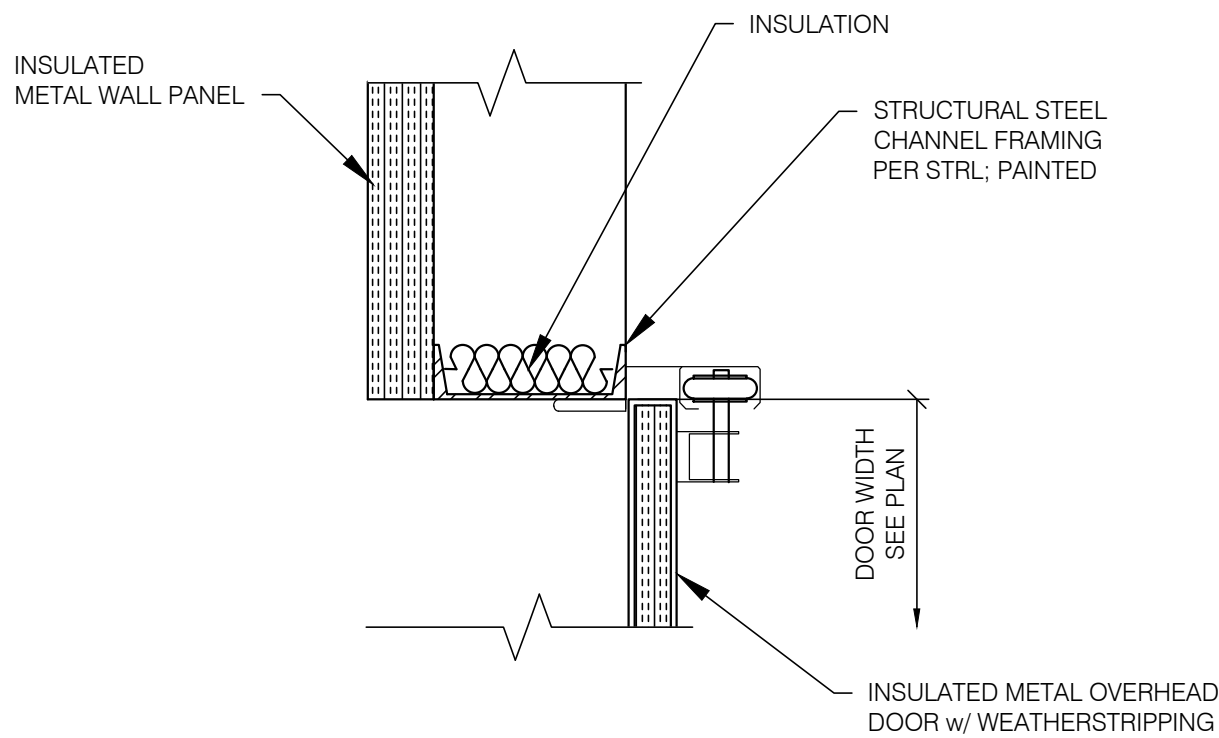
1 TYPICAL WALL SECTION
A3.0 SCALE: 3/4" = 1'-0"



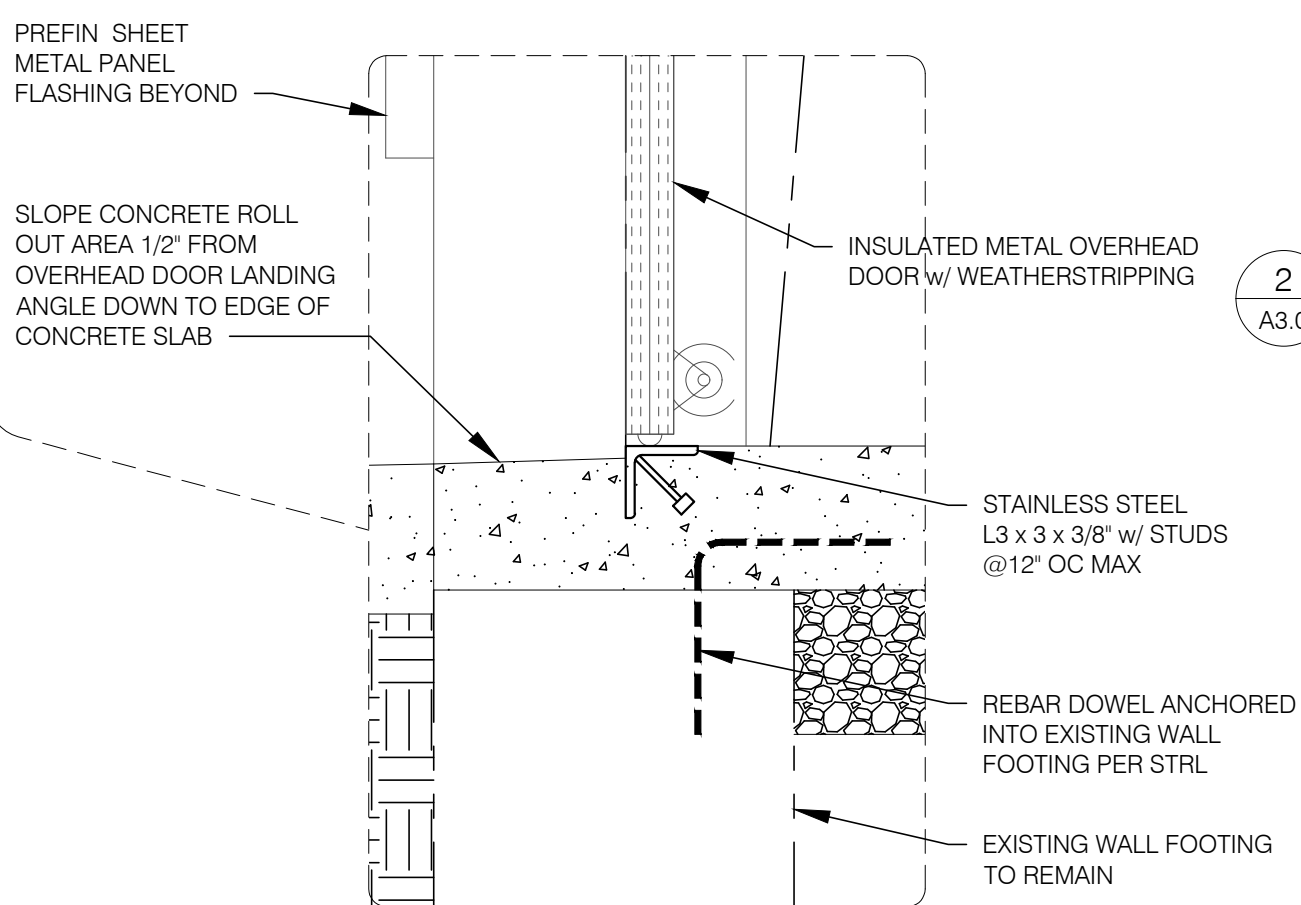
2 WALL SECTION @ OVERHEAD DOOR
A3.0 SCALE: 3/4" = 1'-0"



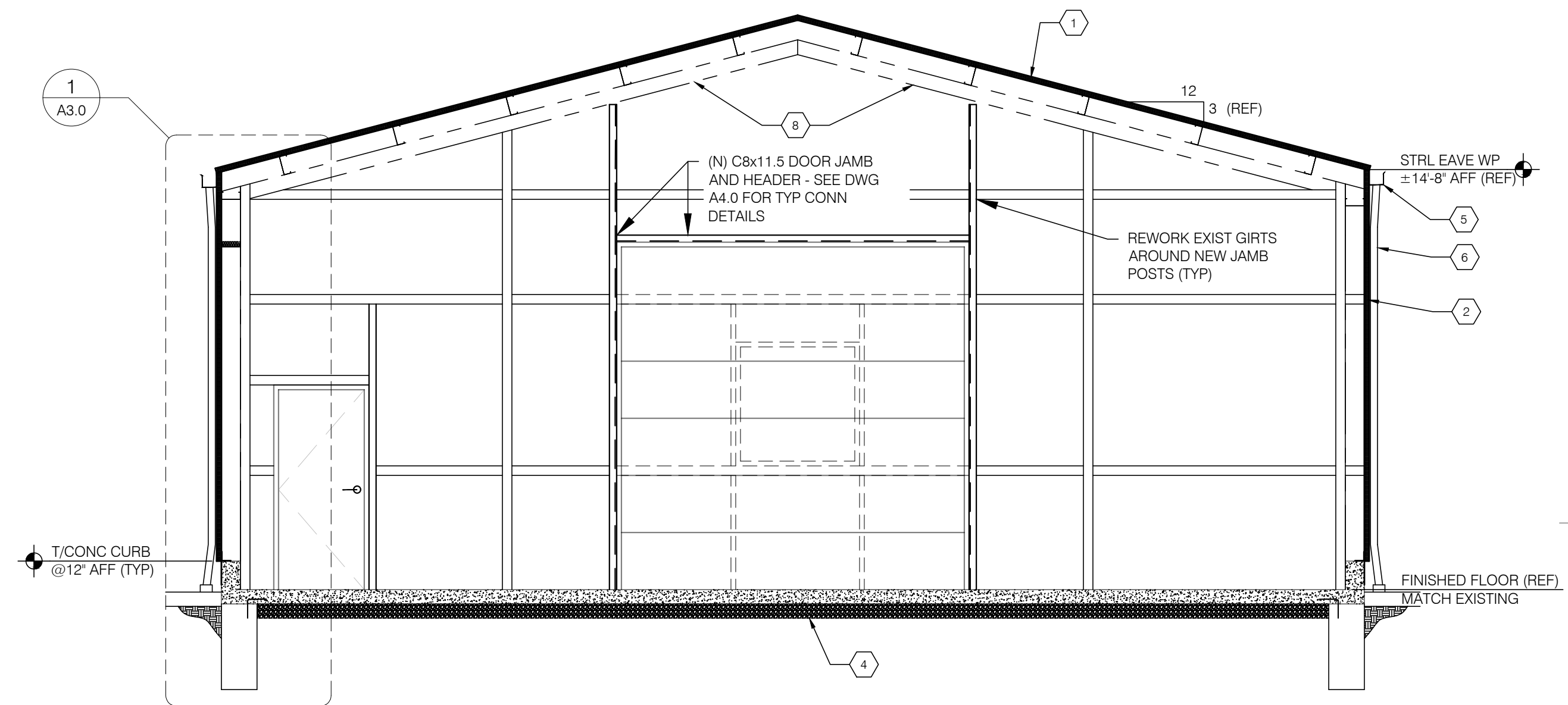
3 OVERHEAD DOOR HEAD DETAIL @ INSULATED METAL PANEL
A3.0 SCALE: 1 1/2" = 1'-0"



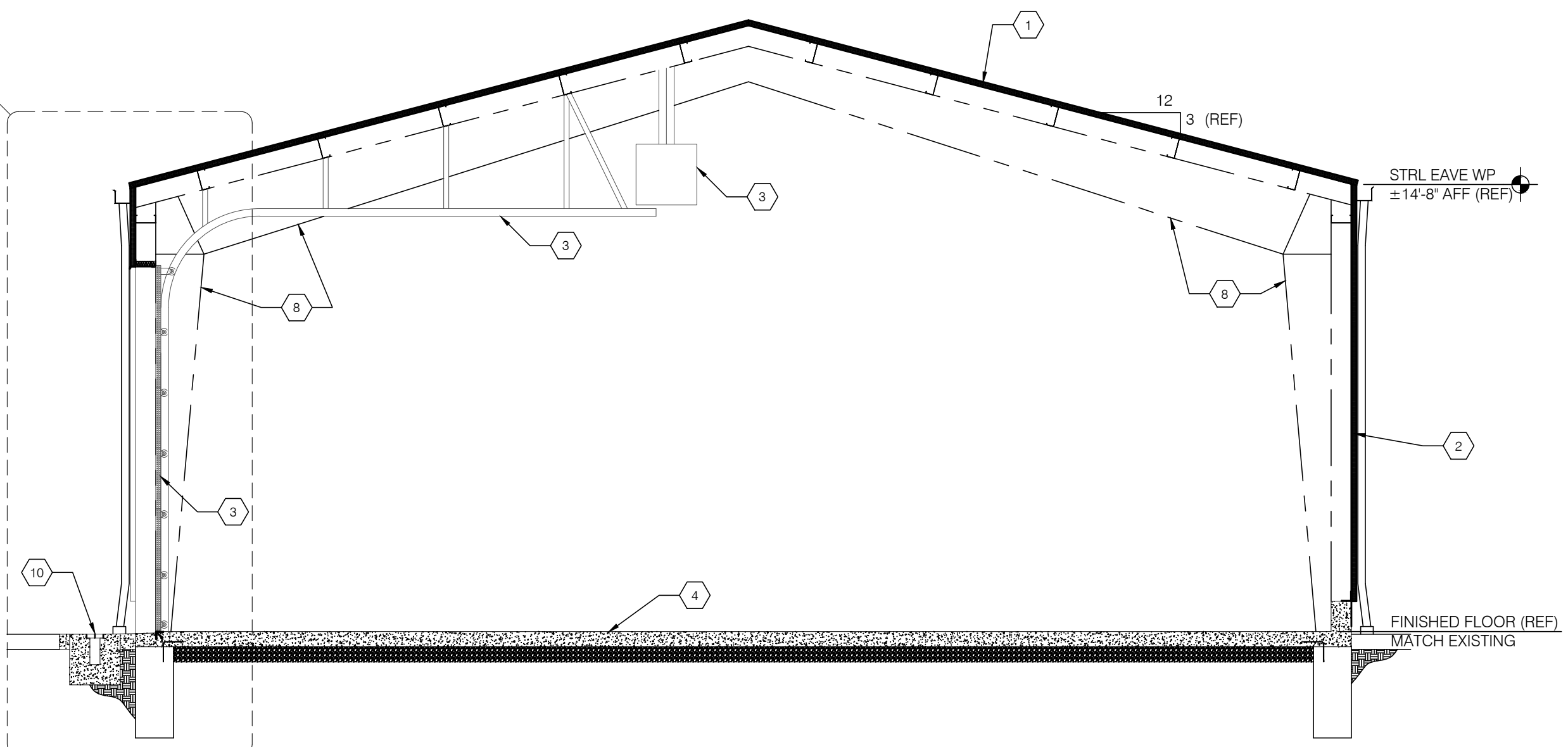
4 OVERHEAD DOOR JAMB DETAIL @ INSULATED METAL PANEL
A3.0 SCALE: 1 1/2" = 1'-0"



5 OVERHEAD DOOR SILL DETAIL @ INSULATED METAL PANEL
A3.0 SCALE: 1 1/2" = 1'-0"



A BUILDING CROSS-SECTION / INTERIOR ELEVATION
A1.0 SCALE: 1/4" = 1'-0"



B BUILDING CROSS-SECTION
A1.0 SCALE: 1/4" = 1'-0"

A. STRUCTURAL DESIGN

CODE | 2017 OHIO BUILDING CODE (OBC)

LIVE LOADS:

ROOF: 20 PSF (REDUCIBLE)

FLOOR: LIGHT STORAGE - 125 PSF

ROOF SNOW LOADS:

DESIGN UNIFORM ROOF SNOW LOAD	11.2 PSF
FLAT ROOF SNOW LOAD (P _f)	11.2 PSF
GROUND SNOW LOAD (P _g)	20.0 PSF
IMPORTANCE FACTOR (I)	0.8
SNOW EXPOSURE FACTOR (C _e)	1.0
THERMAL FACTOR(C _t)	1.0

STRUCTURAL ROOF MEMBERS DESIGNED FOR UNBALANCED LOAD CONDITIONS AS DETERMINED PER ASCE 7

WIND DESIGN DATA:

ULTIMATE DESIGN WIND SPEED	105 MPH
IMPORTANCE FACTOR	1.0
RISK CATEGORY	I
MEAN ROOF HT (H)	17.3 FT
EXPOSURE CATEGORY	B
ENCLOSURE CLASSIF:	ENCLOSED BUILDING
INTERNAL PRESSURE COEF.	+/-0.18
DIRECTIONALITY (K _d)	0.85

ULTIMATE COMPONENT AND CLADDING WIND PRESSURES:

Roof	Area	10 sf	Surface Pressure (psf)	50sf	100 sf
Negative Zone 1	-18.2	-17.0	-16.5		
Negative Zone 2	-31.6	-25.7	-23.2		
Negative Zone 3	-46.7	-39.7	-36.6		
All Positive Zones	16.0	16.0	16.0		
Overhang Zone 2	-37.0	-37.0	-37.0		
Overhang Zone 3	-62.2	-48.1	-42.0		

Wall	Area	10 sf	100 sf	500 sf
Negative Zone 4	-21.5	-18.5	-16.5	
Negative Zone 5	-26.6	-20.6	-16.5	
Positive Zones 4 & 5	19.8	16.9	16.0	

EARTHQUAKE DESIGN DATA:

RISK CATEGORY:	I
IMPORTANCE FACTOR (I):	1.00
MAPPED SPECTRAL RESPONSE ACCELERATION	
S _s :	0.129g
S ₁ :	0.054g
D (ASSUMED PER CODE)	
SITE CLASS	
SPECTRAL RESPONSE COEFFICIENT	
S _{ps} :	0.138
S _{pt} :	0.086
SEISMIC DESIGN CATEGORY:	B
BASIC STRUCTURAL SYSTEM:	MOMENT-RESISTING FRAME
SEISMIC RESISTING SYSTEM:	STEEL ORDINARY MOMENT FRAMES
RESPONSE MODIFICATION FACTOR, (R):	3.5
ANALYSIS PROCEDURE:	EQUIV LATERAL-FORCE
SEISMIC RESPONSE COEF. (CS):	0.039
DESIGN BASE SHEAR (V):	0.039W

THE ADDITIONS AND ALTERATIONS TO THE EXISTING STRUCTURE DOES NOT INCREASE THE SEISMIC FORCE IN ANY STRUCTURAL ELEMENT OF THE EXISTING STRUCTURE BY MORE THAN 10 PERCENT NOR DO THE ADDITIONS DECREASE THE SEISMIC RESISTANCE OF ANY STRUCTURAL ELEMENTS OF THE EXISTING STRUCTURE, THEREFORE THE EXISTING STRUCTURE IS NOT REQUIRED TO COMPLY WITH THE SEISMIC REQUIREMENTS FOR A NEW STRUCTURE.

B. GENERAL

- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING DIMENSIONS AND EXISTING CONSTRUCTION PRIOR TO DEMOLITION, FABRICATION, AND CONSTRUCTION.
- THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER IT IS FULLY COMPLETED. IT IS THE CONTRACTORS' SOLE RESPONSIBILITY TO DETERMINE ERECTION PROCEDURES AND SEQUENCES AND ENSURE THE SAFETY OF THE CONSTRUCTION PERSONNEL, BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, TEMPORARY BRACING, ETC. (BEYOND THAT DEPICTED HEREIN) THAT MAY BE NECESSARY.
- THE CONTRACTOR SHALL PERFORM ALL CONSTRUCTION ACTIVITIES FOR THE PROJECT IN A MANNER AND SEQUENCE THAT IS BASED ON ACCEPTED INDUSTRY STANDARDS THAT RECOGNIZE THE INTERACTION OF THE COMPONENTS THAT COMPRISE THE STRUCTURE WITHOUT CAUSING DISTRESS, UNANTICIPATED MOVEMENTS OR IRREGULAR LOAD PATHS AS A RESULT OF THE CONSTRUCTION MEANS AND METHODS EMPLOYED.
- THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY OF ANY INCONSISTENCIES BETWEEN THE DRAWINGS AND THE FIELD CONDITIONS THAT COULD AFFECT THE CONSTRUCTION.
- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE WORK AREA AND SURROUNDING PREMISES FREE OF WASTE, SURPLUS MATERIALS, RUBBISH, AND DEBRIS RESULTING FROM THE WORK.
- MATERIALS AND EQUIPMENT NECESSARY TO COMPLETE THE WORK SHALL BE STORED AT OWNER DESIGNATED LOCATION(S).
- MATERIAL REMOVED AS PART OF ANY DEMOLITION WORK SHALL BE REMOVED AND DISPOSED OF LEGALLY OFF-SITE, UNLESS OTHERWISE DIRECTED BY THE OWNER.
- WHERE CONFLICTS ARISE BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS; THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE STRUCTURAL ENGINEER ISSUES A CLARIFICATION.

C. STRUCTURAL STEEL

- STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE PROVISIONS OF THE AISC "SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS" LATEST EDITION.

STEEL SHAPES AND ACCESSORIES SHALL MEET THE LATEST EDITION OF THE FOLLOWING REQUIREMENTS:

PLATE, ANGLE, CHANNEL ASTM A36 (UNO)

- CONNECTIONS FOR STEEL MEMBERS SHALL BE SHOP WELDED AND FIELD BOLTED, UNLESS NOTED OTHERWISE.
- PERMANENT BOLTED CONNECTIONS FOR MAIN STRUCTURAL MEMBERS AND BRACING SHALL BE WITH HIGH STRENGTH BOLTS (ASTM F3125, GRADE A325, MIN 3/4" DIAMETER) PROVIDING BEARING TYPE CONNECTIONS, TO BE INSTALLED SNUG-TIGHT, UNLESS NOTED OTHERWISE. STANDARD HOLES SHALL BE USED IN ALL BOLTED CONNECTIONS, UNLESS NOTED OTHERWISE.
- WELDING SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE ANS/AWS CODE, LATEST EDITION. WELD RODS TO BE E70XX UNLESS NOTED OTHERWISE.
- ALL "FIELD-DRILLED" HOLES SHALL BE DRILLED WITH PROPER SIZE BIT. NO OVERSIZED OR BURNED HOLES WILL BE PERMITTED.
- STRUCTURAL AND MISCELLANEOUS STEEL SHALL BE PAINTED PER ARCHITECTURAL DIRECTION, UNLESS NOTED OTHERWISE. SEE TECHNICAL SPEC SECTION #099600.
- SHOP PAINT ALL PORTIONS OF STRUCTURAL STEEL WORK USING ZINC-RICH PRIMER.
- DO NOT PAINT OR GALVANIZE WITHIN 3' OF BOLTED OR FIELD WELDED CONNECTIONS UNTIL AFTER CONNECTIONS ARE MADE. FIELD TOUCH UP PAINT AROUND CONNECTIONS AS REQUIRED.
- REMOVE ALL SHARP EDGES AND BURRS FROM FABRICATED STEEL.
- DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER "FOR REVIEW" (NOT APPROVAL) PRIOR TO FABRICATION. DO NOT REPRODUCE THE STRUCTURAL DRAWINGS FOR USE OF SHOP DRAWINGS.

D. CONCRETE

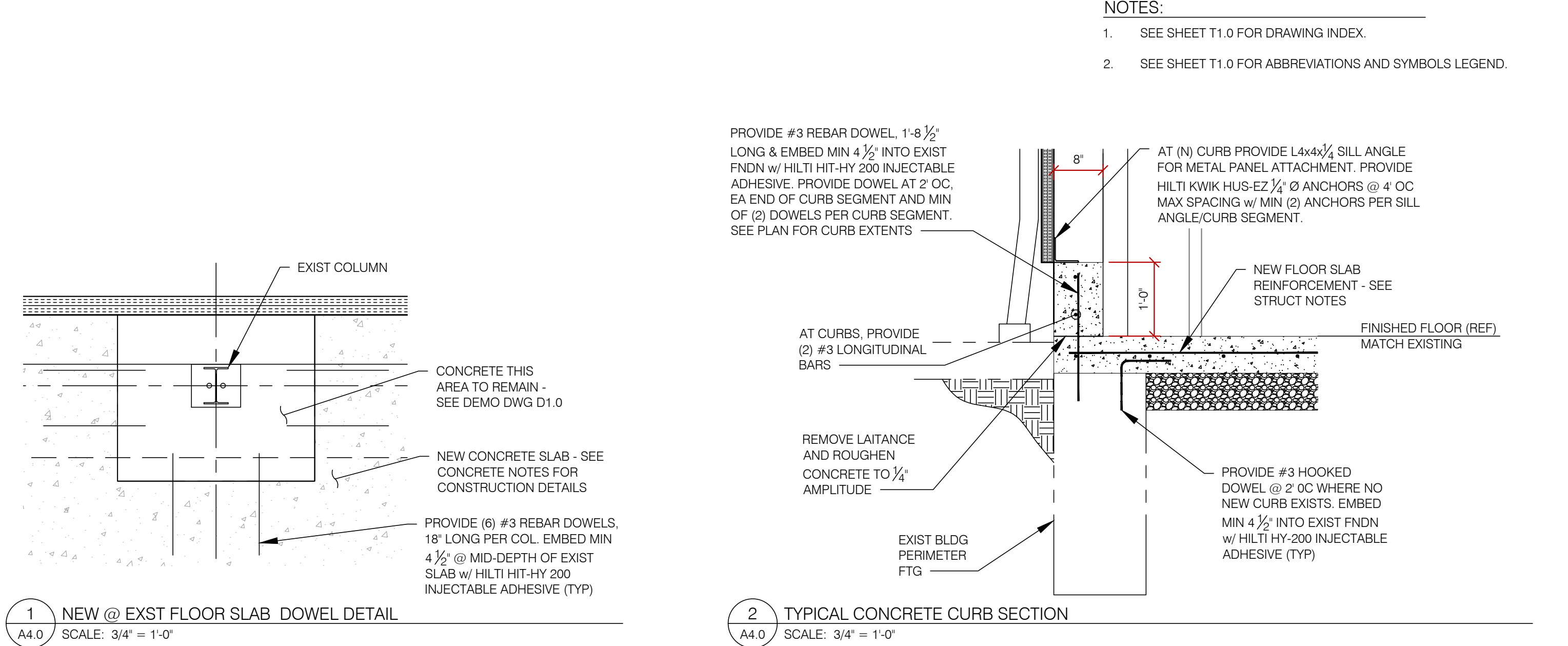
- CONCRETE WORK SHALL CONFORM WITH THE BUILDING CODE REFERENCED EDITION OF THE FOLLOWING ACI CODES:

ACI 301	SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI 305R	HOT WEATHER CONCRETING
ACI 306	COLD WEATHER CONCRETING
ACI 318	BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
ACI 117	STANDARD SPECIFICATION TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS
- CONCRETE SHALL USE TYPE II CEMENT AND DEVELOP f_c = 4000psi MINIMUM COMPRESSIVE STRENGTH IN A 28 DAY PERIOD.
- SLAB ON GRADE CONSTRUCTION SHALL CONSIST OF 6" THICK CONCRETE WITH 6X6-W6XW6 WWF PLACED AT MID-DEPTH PLACED ON 4" PLASTIC CHAIRS ATOP NEW 6 MIL POLYETHYLENE VAPOR BARRIER PLACED ON EXISTING COMPACTED SUB-GRADE.
- CONTRACTION JOINTS SHALL BE SAWN WITHIN 6 HOURS OF POUR. PROVIDE JOINT SEALER POST SAWCUT.
- CONSTRUCTION JOINTS SHALL BE PROVIDED AT THE END OF ANY SINGLE POUR. A CONSTRUCTION JOINT MAY REPLACE A CONTRACTION JOINT.
- FLOORS TO BE FINISHED TO A UNIFORM SMOOTH, HARD, BURNED STEEL TROWELED FINISH FREE OF PINHOLES, CAT FACES, FOOTPRINTS, TROWEL CHATTER/MARKS, AND OTHER BLEMISHES RELATED TO POOR FINISHING.
- PROVIDE (2) #4 X 4'-0" LG. @ 0'-6" OC PLACED 2' DOWN FROM T/S LAB AND 3" FROM FACE OF ALL RE-ENTRANT CORNERS (UNO).
- PROVIDE 6% AIR ENTRAINMENT (+/- 1.5%) IN ALL CONCRETE EXPOSED TO WEATHER OR VULNERABLE DEICERS.
- GROUT UNDER BASE PLATES SHALL BE 1" THICK NON-SHRINK NON-METALLIC UNLESS NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ANCHOR BOLTS, CLIPS, INSERTS, CONNECTION PLATES, SLEEVES, SLOTS AND OTHER REQUIRED ITEMS IN ACCORDANCE WITH THE CONTRACT DRAWINGS AND IN COOPERATION WITH THE OTHER TRADES PRIOR TO PLACING THE CONCRETE.
- REINFORCING BARS SHALL MEET THE REQUIREMENTS OF ASTM A615, GRADE 60 (60,000 PSI).
- WELDED WIRE FABRIC (WWF) SHALL MEET THE REQUIREMENTS OF ASTM A185. (SHEETS ONLY)
- BARS SHALL BE CLEANED, TAGGED, FABRICATED AND PLACED IN ACCORDANCE WITH ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED.
- BAR SPLICES SHALL BE STAGGERED, LAP TYPE CONFORMING TO THE REQUIREMENTS OF ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED, UNLESS NOTED OTHERWISE.
- DETAILED SHOP DRAWINGS SHALL BE SUBMITTED TO THE OWNER "FOR REVIEW" (NOT APPROVAL) PRIOR TO FABRICATION.
- EMBEDMENT DEPTH OF DOWEL SHALL BE THE TENSION DEVELOPMENT LENGTH (L_d) IN ACCORDANCE WITH WITH ACI 318 FOR THE YEAR REFERENCED BY THE BUILDING CODE NOTED.
- NO TACK WELDING OF REINFORCING IN THE FIELD WILL BE PERMITTED (UNO).

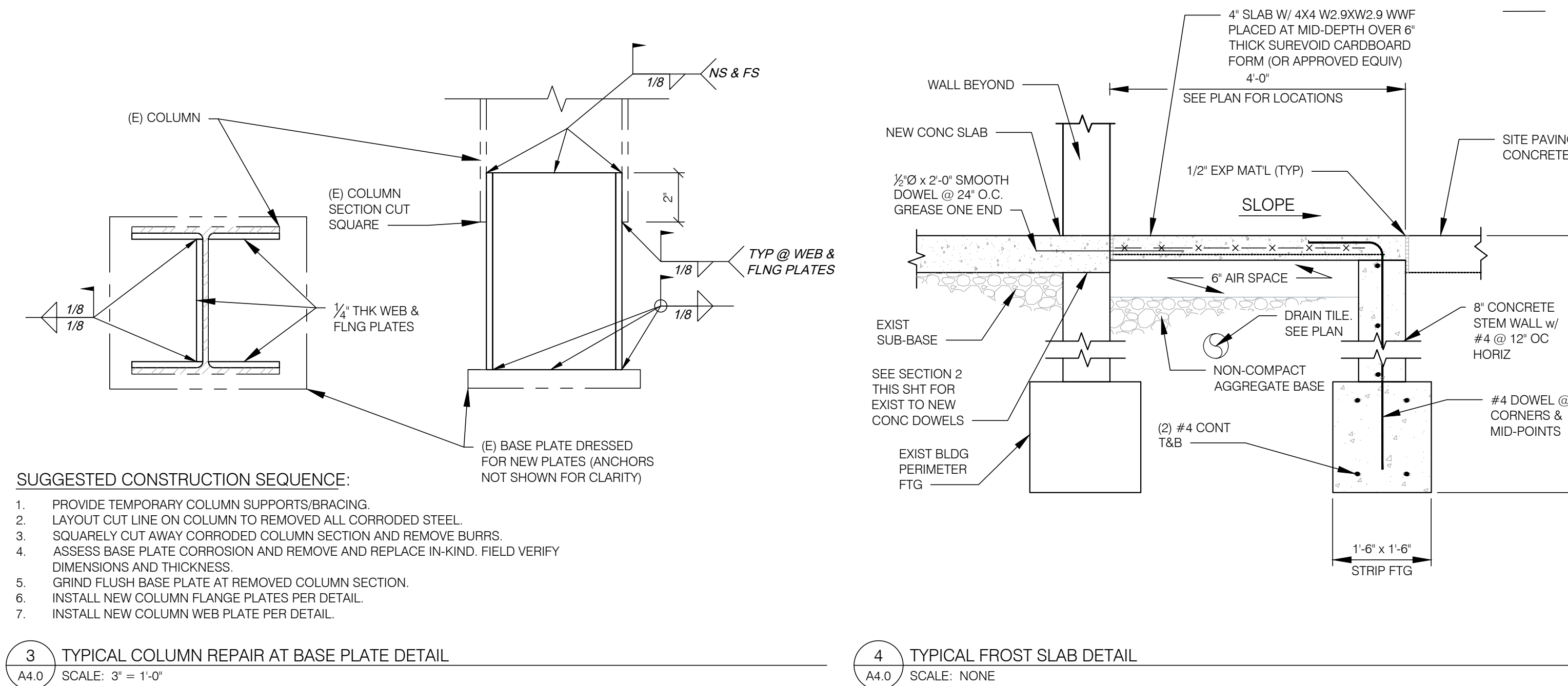
E. COLD-FORM STEEL NOTES

- ALL LIGHT GAGE FRAMING SHALL BE DESIGNED IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION.
- FRAMING MEMBERS SHALL BE FORMED FROM STEEL WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MILS (18 GA) AND THINNER AND A MINIMUM YIELD STRENGTH OF 50 KSI FOR 54 MILS (16 GA) AND THICKER, UNLESS NOTED OTHERWISE.
- NEW WALL GIRTS TO CONSIST OF AN 8" WEB, 3 1/2" FLANGE, AND 14GA THICKNESS.
- ALL STEEL STUDS ARE IDENTIFIED BY THE STEEL STUD ASSOCIATION NOMENCLATURE AS FOLLOWS:

DEPTH	600	S	162	-54	METAL THICKNESS
MEMBER TYPE					FLANGE WIDTH
- ALL FRAMING SHALL BE G90 GALVANIZED (HOT DIPPED).
- ALL WELDS SHALL BE TOUCHED UP WITH A ZINC-RICH PAINT.
- ALL MEMBERS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR SLOPE CUT AS REQUIRED FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
- FIELD CUTTING OF STUDS SHALL BE DONE BY SAWING OR SHEARING. TORCH CUTTING IS NOT PERMITTED.
- DO NOT CUT OR SPLICE FRAMING MEMBERS UNLESS INDICATED BY THESE DRAWINGS.



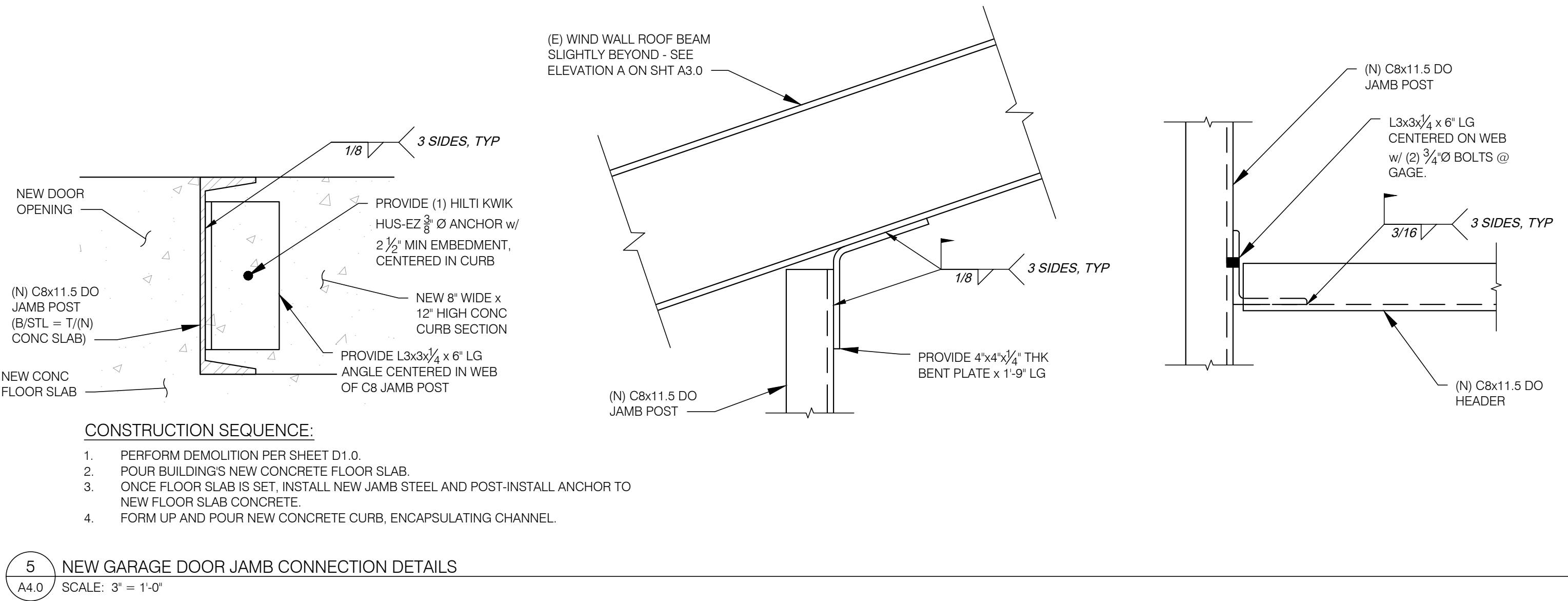
1 NEW @ EXST FLOOR SLAB DOWEL DETAIL
SCALE: 3/4" = 1'-0"



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

3 TYPICAL COLUMN REPAIR AT BASE PLATE DETAIL
SCALE: 3" = 1'-0"

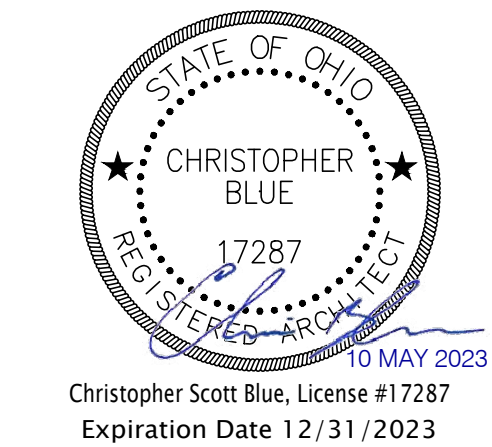
4 TYPICAL FROST SLAB DETAIL
SCALE: NONE



5 NEW GARAGE DOOR JAMB CONNECTION DETAILS
SCALE: 3" = 1'-0"

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Oberlin Municipal
Light and Power
System

322 S. MAIN ST. OBERLIN, OH 44074

Storage Building
Rehabilitation

322 S. MAIN ST. OBERLIN, OH 44074

Structural Notes and
Details

Issue/Revision:
0 01.27.2023 PERMIT ISSUE
- 05.10.2023 BID ISSUE

Project Number: 50530118
Design by: MRO
Drawn by: MRO
Checked by: PET/SCR