

State of Maine Department of Transportation



Truck Storage Garage Sherman, Maine

Aroostook County

WIN # 025240.00

Specifications:

Design: International Building Code 2015
ACI 318-08

Design Loading:

Live Load Slab-on-grade 400 psf
 uniform load
Ground Snow Load 100 PSF
Wind Load 115 MPH

Materials:

Reinforcing Steel ASTM A 615, grade 60,
 plan and epoxy coated

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STATE OF MAINE
DEPARTMENT OF TRANSPORTATION
APPROVED: *[Signature]* DATE: 1-10-22
COMMISSIONER: *[Signature]*
CHIEF ENGINEER: *[Signature]* 1-13-2022

TRILLIUM
ENGINEERING GROUP
389 MAIN STREET SUITE 200
YARMOUTH, ME 04096

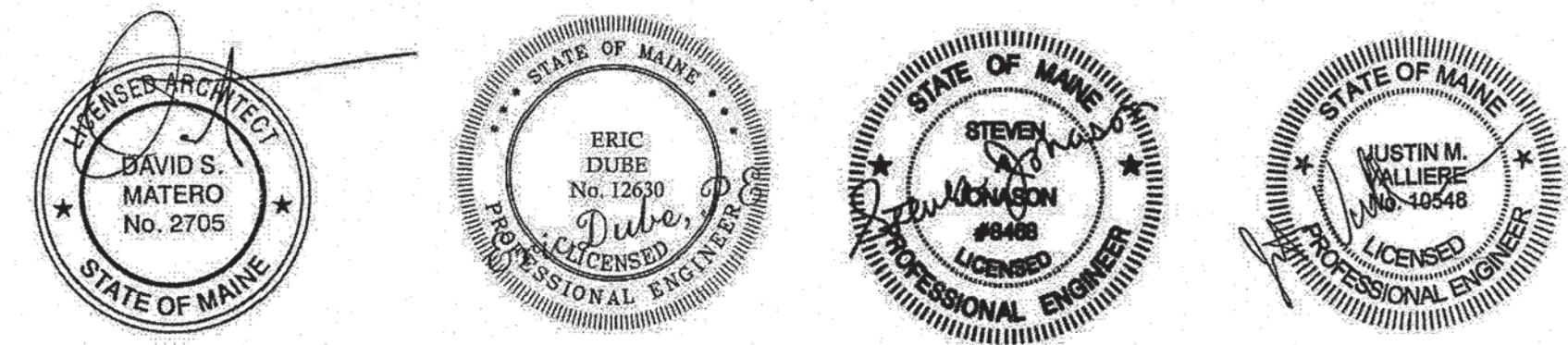
David Matero
Architecture
49 Centre Street
Bath, Maine 04530
207.289.4278
info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
607.955.9475

DATE: 11/18/21
BY: DSM
DESIGN-DETAILED
CHECKED-REVIEWED
REVISION 1
REVISION 2
REVISION 3
FIELD CHANGES
ME: PE NUMBER 2020.01.03 DATE



12 Qualey Drive, Sherman, Maine
Locus Map - not to scale



Project Location	12 Qualey Road, Sherman off exit 264 on Rt 95
Program Area	Maintenance and Operations
Scope of Work	9,000 sf Truck storage garage and site work

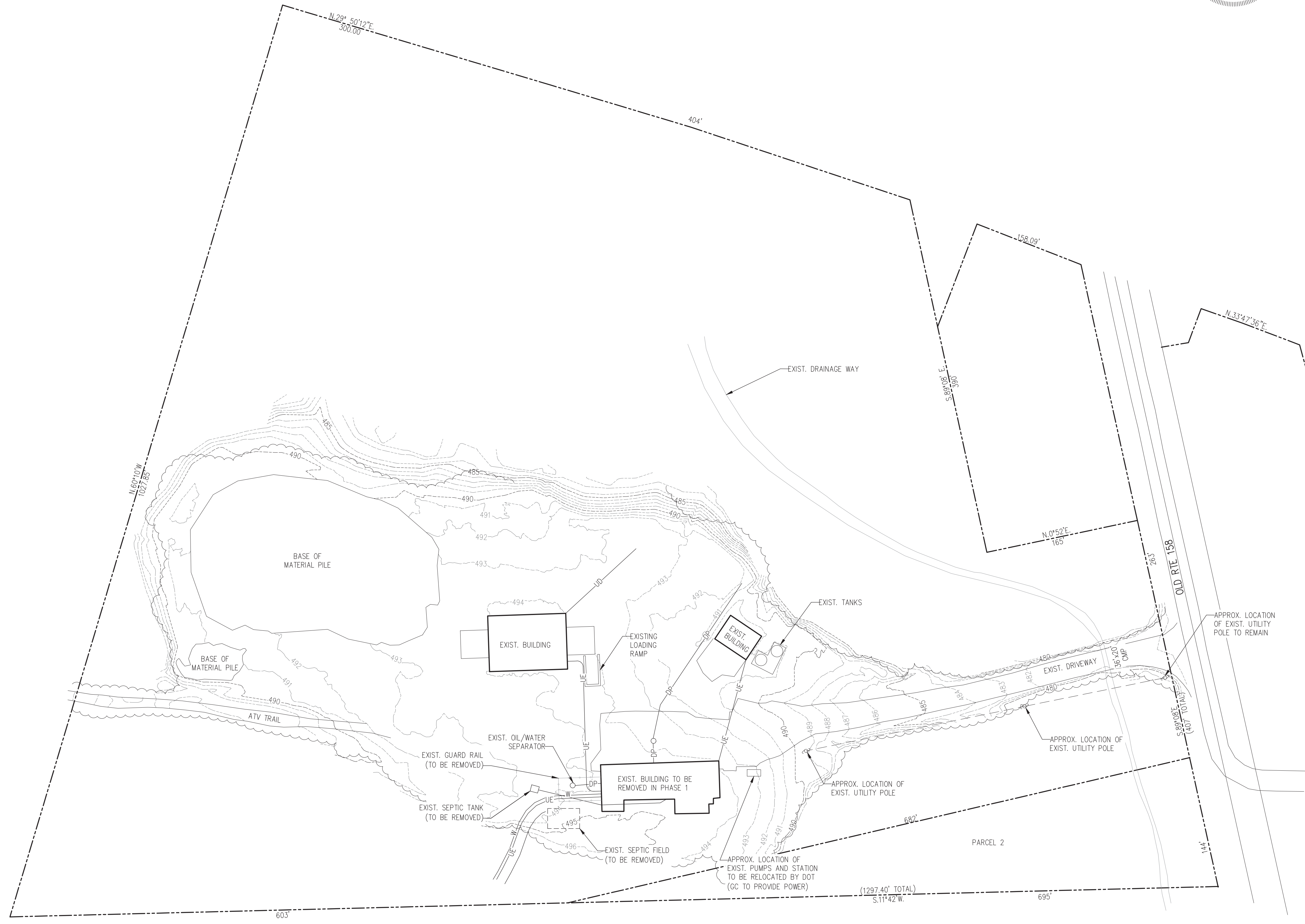
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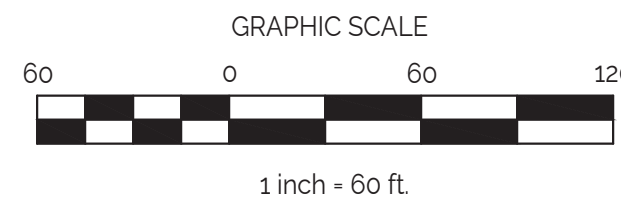


GENERAL NOTES

- BOUNDARY AND TOPOGRAPHY INFO. TAKEN FROM THE MAINE STATE HIGHWAY COMMISSION.
- THE CONTRACT WORK TO BE PERFORMED ON THIS PROJECT CONSISTS OF FURNISHING ALL REQUIRED LABOR, MATERIALS, EQUIPMENT, IMPLEMENTS, PARTS AND SUPPLIES NECESSARY FOR OR APPURTENANT TO, THE INSTALLATION OF CONSTRUCTION IMPROVEMENTS IN ACCORDANCE WITH THESE DRAWINGS AND AS FURTHER ELABORATED IN ANY ACCOMPANYING SPECIFICATIONS.
- THE WORK SHALL BE PERFORMED IN A THOROUGH WORKMANLIKE MANNER. ALL CONTRACTORS TO CONFORM TO ALL APPLICABLE OSHA STANDARDS. ANY REFERENCE TO A SPECIFICATION OR DESIGNATION OF THE AMERICAN SOCIETY FOR TESTING MATERIALS, FEDERAL SPECIFICATIONS, OR OTHER STANDARDS, CODES OR ORDERS, REFERS TO THE MOST RECENT OR LATEST SPECIFICATION OR DESIGNATION.
- ALL CONSTRUCTION WITHIN THE TOWN RIGHT OF WAY SHALL COMPLY WITH TOWN PUBLIC WORKS STANDARDS. ALL CONSTRUCTION WITHIN A STATE RIGHT OF WAY SHALL COMPLY WITH MAINE D.O.T. STANDARDS. ALL UTILITY CONSTRUCTION SHALL CONFORM TO RESPECTIVE UTILITY STANDARDS.
- THE OWNER IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS REQUIRED BY THE TOWN PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS FROM THE TOWN REQUIRED TO PERFORM ALL THE WORK (STREET OPENING, BUILDING PERMIT, ETC.). THE CONTRACTOR SHALL POST ALL BONDS AS REQUIRED, PAY ALL FEES, PROVIDE PROOF OF INSURANCE AND PROVIDE TRAFFIC CONTROL NECESSARY FOR THIS WORK.
- PRIOR TO CONSTRUCTION, THE SITE CONTRACTOR IS TO INFORM ALL AREA UTILITY COMPANIES AND GOVERNMENTAL AGENCIES OF PLANNED CONSTRUCTION. THE SITE CONTRACTOR IS REQUIRED TO CONTACT DIG-SAFE (1-800-225-4977) AT LEAST 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION TO VERIFY ALL UNDERGROUND AND OVERHEAD UTILITY LOCATIONS.
- THE PROJECT DRAWINGS ARE GENERALLY SCHEMATIC AND INDICATE THE POSSIBLE LOCATION OF EXISTING UNDERGROUND UTILITIES. INFORMATION ON EXISTING UTILITIES HAS BEEN COMPILED FROM AVAILABLE INFORMATION INCLUDING UTILITY COMPANY MAPS, MUNICIPAL RECORD MAPS, AND FIELD SURVEY. IT IS NOT GUARANTEED TO BE CORRECT OR COMPLETE. UTILITIES ARE SHOWN TO ALERT THE CONTRACTOR TO THEIR PRESENCE. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR DETERMINING ACTUAL LOCATIONS AND ELEVATIONS OF ALL UTILITIES, INCLUDING SERVICES, WHEN THOSE SERVICES ARE TO BE LEFT IN PLACE. THE CONTRACTOR IS TO PROVIDE ADEQUATE MEANS OF SUPPORT AND PROTECTION DURING THE EXCAVATING AND TIDYING OPERATIONS. SHOULD ANY UNCHARTED OR INCORRECTLY CHARTED UTILITIES BE FOUND, THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER IMMEDIATELY FOR DIRECTIONS BEFORE PROCEEDING FURTHER WITH THE WORK IN THIS AREA.
- OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN TEN FEET (10') OF ANY ELECTRIC LINE. IF THE CONTRACTOR MUST OPERATE CLOSER THAN 10', THE CONTRACTOR MUST CONTACT THE POWER COMPANY TO MAKE ARRANGEMENTS FOR PROPER SAFEGUARDS BEFORE ENVOACHING ON THIS REQUIREMENT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLANS, APPROVALS, AND DETAILS FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL VERIFY ALL THE SITE CONDITIONS IN THE FIELD AND CONTACT THE DESIGN ENGINEER IF THERE ARE ANY DISCREPANCIES REGARDING THE CONSTRUCTION DOCUMENTS AND/OR FIELD CONDITIONS SO THAT AN APPROPRIATE REVISION CAN BE MADE PRIOR TO BIDDING.
- THE CONTRACTOR SHALL REFERENCE ARCHITECTURAL PLANS FOR EXACT DIMENSIONS AND CONSTRUCTION DETAILS OF THE BUILDING AREA. BUILDING AND DRIVEWAYS SHOWN ARE CONCEPTUAL. ALL SITE DIMENSIONS ARE REFERENCED TO PROPERTY LINES, THE FACE OF CURBS, OUTSIDE FACE OF WALLS, OR EDGE OF PAVING UNLESS OTHERWISE NOTED.
- ALTERNATIVE METHODS AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED IF REVIEWED AND APPROVED IN WRITING BY THE OWNER, DESIGN ENGINEER, AND APPROPRIATE GOVERNMENTAL AGENCY PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL RESTORE ALL UTILITY STRUCTURES, PIPE, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, AND LANDSCAPED AREAS DISTURBED BY CONSTRUCTION TO AS GOOD AS BEFORE BEING DISTURBED AS DETERMINED BY CITY CODE ENFORCEMENT OFFICIALS. ANY DAMAGES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- ALL EXCAVATION SHALL BE BACKFILLED TO EXISTING GRADE BEFORE THE END OF THE DAY OR ADEQUATELY PROTECTED FROM DANGER TO HUMANS AND ANIMALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE OWNER WILL PROVIDE A BENCH MARK AT THE CONSTRUCTION SITE FROM WHICH TO BEGIN LAYOUT.
- THE CONTRACTOR SHALL GUARANTEE THE FAITHFUL REMEDY OF ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP AND GUARANTEES PAYMENT FOR ANY RESULTING DAMAGE WHICH SHALL APPEAR WITHIN A PERIOD OF ONE (1) YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT.
- THE CONTRACTOR SHALL PROVIDE AS-BUILT RECORDS OF ALL CONSTRUCTION (INCLUDING UNDERGROUND UTILITIES) TO THE OWNER AT THE END OF CONSTRUCTION.
- A PRE-CONSTRUCTION CONFERENCE WITH THE OWNER, DESIGNERS, TOWN OFFICIALS AND CONTRACTOR SHALL BE REQUIRED BEFORE ANY CONSTRUCTION OCCURS ON THE PROJECT. DURING CONSTRUCTION THERE SHALL BE WEEKLY PROGRESS MEETINGS WITH THE OWNER (ON SITE OR TELECONFERENCE) UNTIL PROJECT COMPLETION.
- PROPER IMPLEMENTATION AND MAINTENANCE OF EROSION CONTROL MEASURES ARE OF PARAMOUNT IMPORTANCE FOR THIS PROJECT. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL EROSION CONTROL MEASURES SHOWN ON THE PLANS. ADDITIONAL EROSION CONTROL MEASURES SHALL BE INSTALLED IF DEEMED NECESSARY BY ONSITE INSPECTIONS OF THE OWNER, THEIR REPRESENTATIVES, OR STATE/LOCAL/ FEDERAL INSPECTORS AT NO ADDITIONAL COST TO THE OWNER.



LEGEND		
EXISTING	DESCRIPTION	PROPOSED
□	GRANITE MONUMENT - 3' OFFSET	■
○	IRON PIN FOUND/SET	○
○	IRON ROD FOUND	○
○	CAPED IRON ROD FOUND	○
○	DRILL HOLE FOUND	○
○	GRANITE MONUMENT FOUND	○
---	STREET LINE	---
---	LOT SETBACKS	---
---	PROPERTY LINE	---
---	ABUTTOR LINE	---
---	"NO OUT" BUFFER	---
---	WETLANDS	---
---	EDGE OF ROAD/TRAVELLED WAY	---
○	SOIL TEST PIT	○
---	CONTOUR	---
327.60 x 327.6	SPOT GRADE	327.60 x 327.6
○	GAS SHUT-OFF	○
○	UTILITY POLE	○
---	OVERHEAD ELECTRICAL	---
---	UNDERGROUND ELECTRICAL	---
□	ELECTRICAL TRANSFORMER	□
○	FIRE HYDRANT	○
---	WATER LINE	---
---	WATER GATE	---
---	SEWER LINE	---
○	SEWER MANHOLE	○
○	DRAINAGE MANHOLE	○
○	CATCH BASIN	○
---	UNDERDRAIN/STORMDRAIN	---
---	UNDERDRAIN	---
---	SILT FENCE	---
---	TEMP. STONE CHECK DAM	---
---	GRADING AND FLOW DIRECTION	---
---	HAY BALES	---
---	EROSION CONTROL BLANKET	---



STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 025240.00



David Matero
 Architecture
 49 Centre Street
 Bath, Maine 04530
 207.389.4278
 info@davidmatero.com



BY	DATE	REVISION	DESCRIPTION
DL	03-06-20	ME-	PE NUMBER
ED	03-06-20		2021.117
			DATE

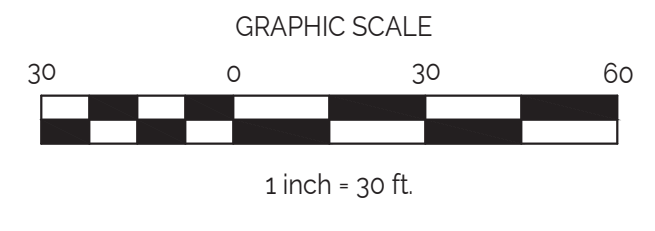
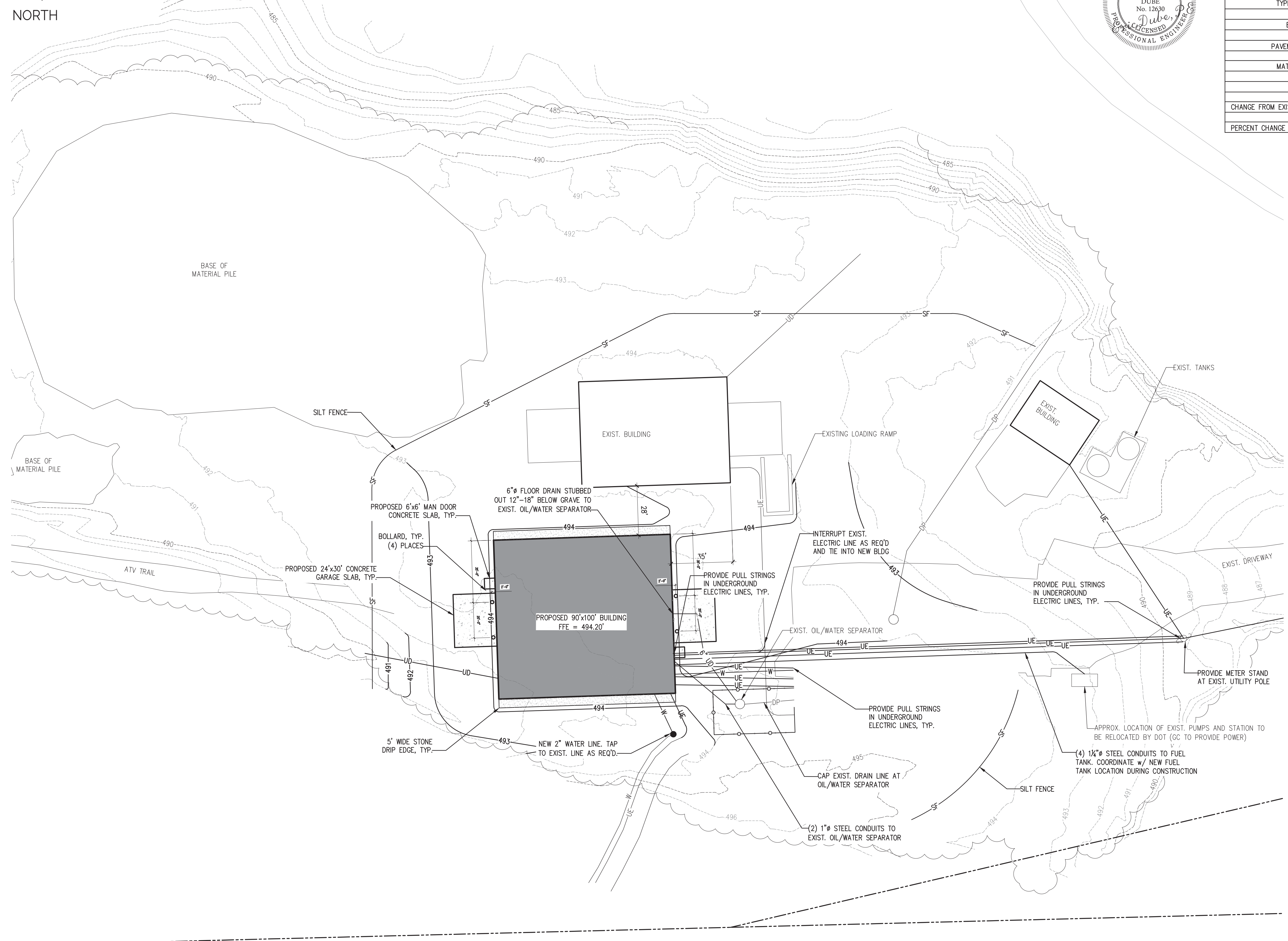
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MDOT SHERMAN
 EXISTING SITE PLAN

SHEET NUMBER
C100



IMPERVIOUS AREA TABLE		
TYPE OF COVER	EXISTING IMP. AREA (SF)	PROPOSED IMP. AREA (SF)
BUILDING	13,963	23,592
PAVEMENT/GRAVEL	27,895	27,266
MATERIAL PILES	41,592	41,592
TOTAL	83,450	92,450
CHANGE FROM EXISTING (+/-)		9,000
PERCENT CHANGE (+/-)		1.12%



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David Matero
 Architecture
 49 Condit Street
 Bath, Maine 04530
 207.389.4278
 info@davidmatero.com

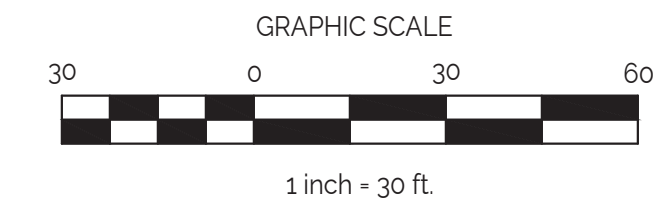
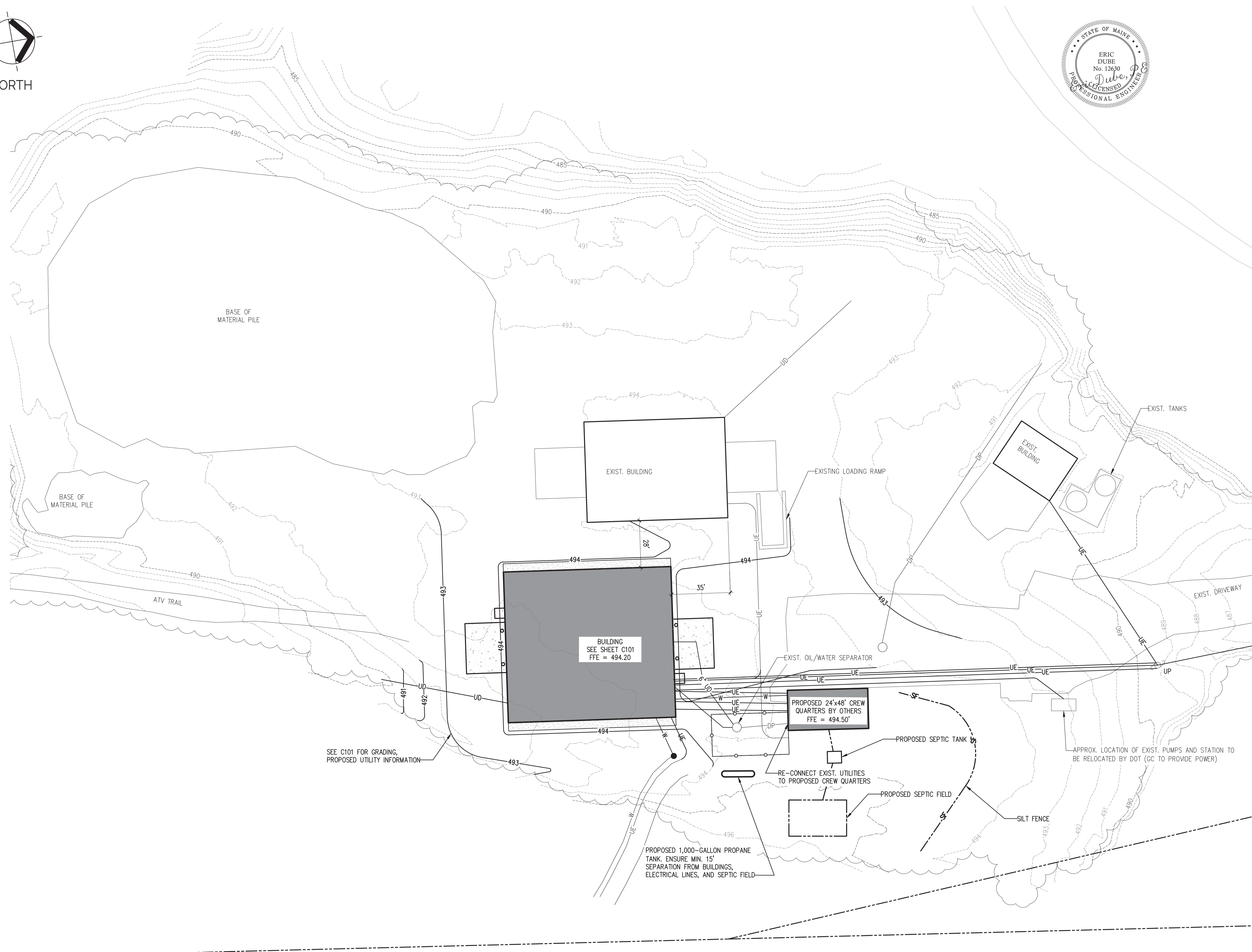
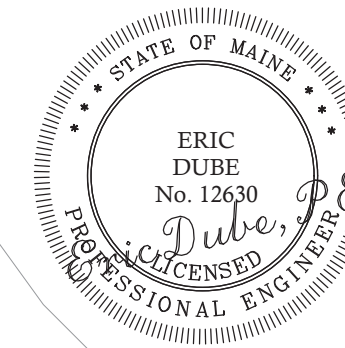
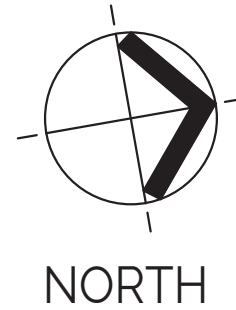


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DL	ED				

BY	DATE	ME-PE NUMBER	DATE
	03-06-20		
	03-06-20		

MDOT SHERMAN
 PROPOSED GRADING AND DRAINAGE PLAN - PHASE 1

SHEET NUMBER
C101



PREPARED FOR:
STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 025240.00

TRILLIUM
 ENGINEERING GROUP
 189 MAIN STREET SUITE 200
 YARMOUTH, ME 04096

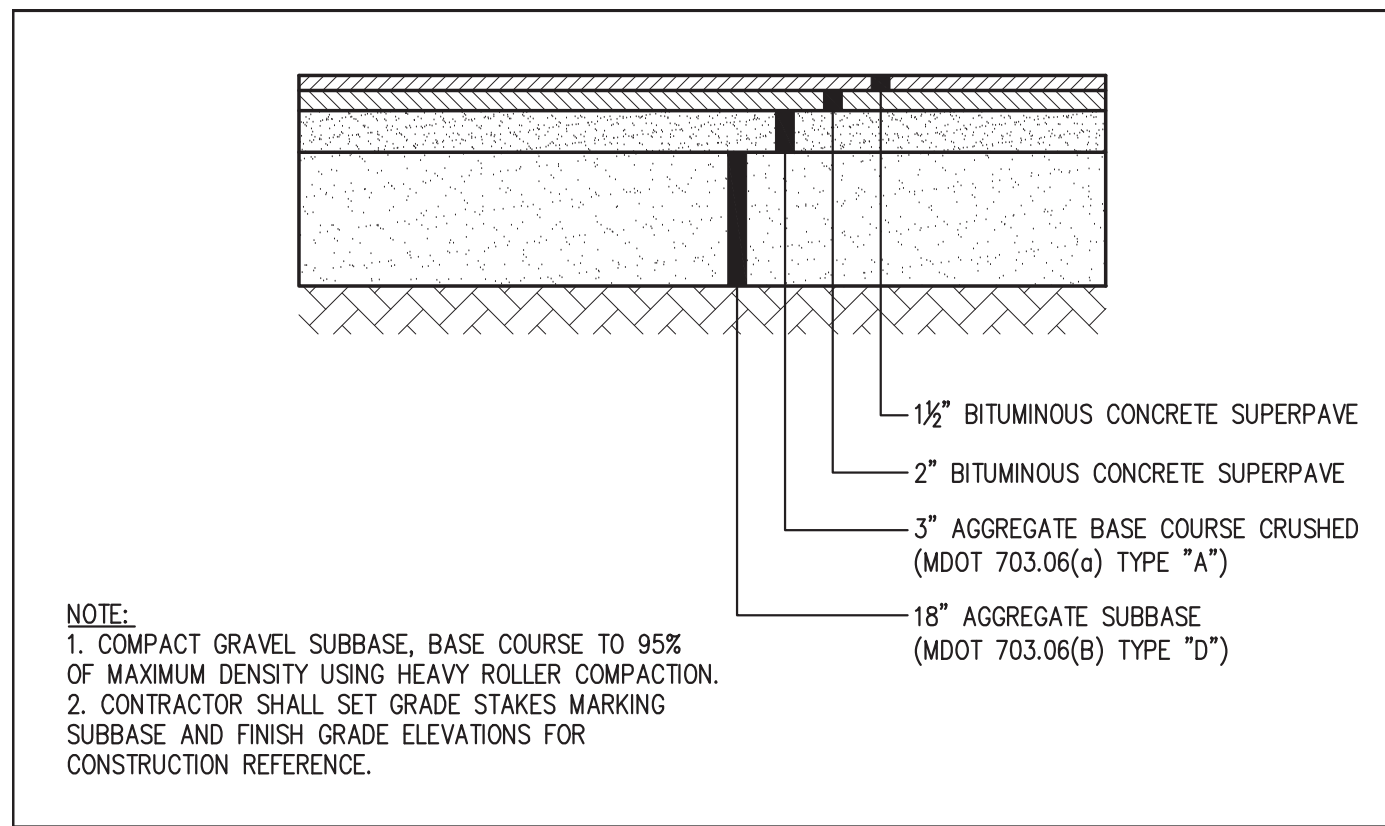
David Matero
 Architecture
 49 Condit Street
 Bath, Maine 04530
 207.389.4778
 info@davidmatero.com

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 MECHANICAL • ELECTRICAL
 (207) 865-2425

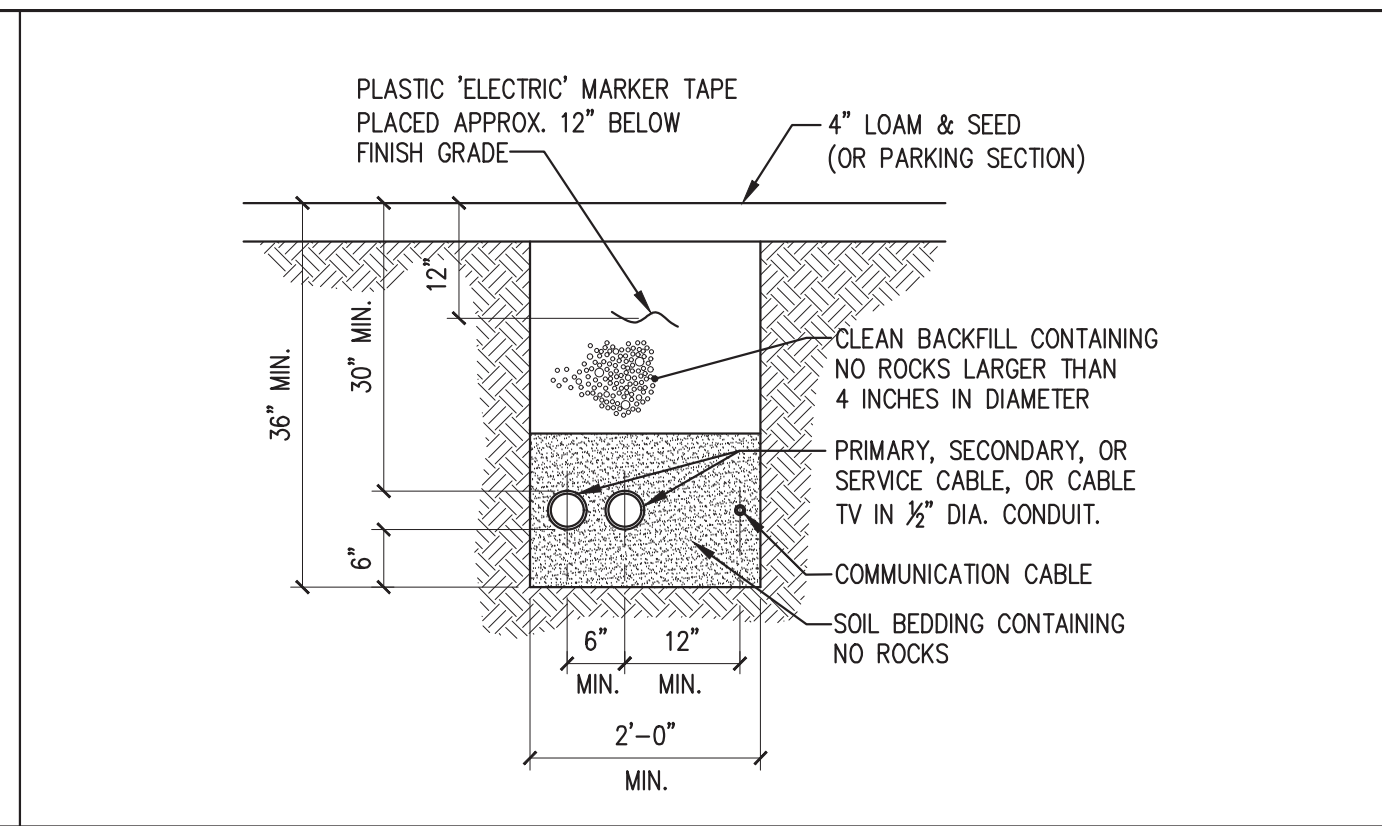
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REVISION 3			
FIELD CHANGES			

MDOT SHERMAN
 PROPOSED GRADING AND
 DRAINAGE PLAN - PHASE 2

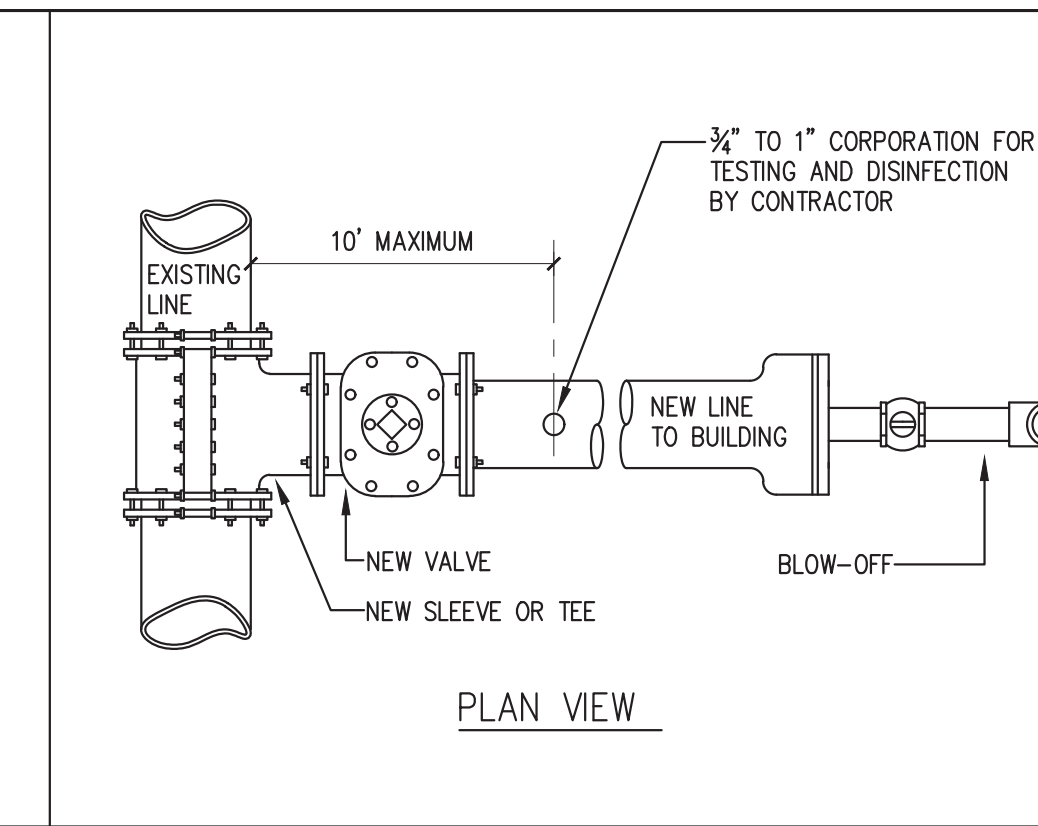
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TYPICAL PARKING LOT SECTION NTS

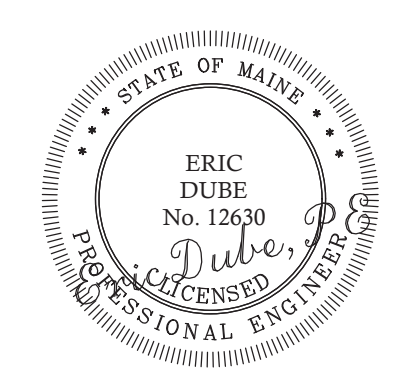


TYPICAL WIRE TRENCH DETAIL NTS

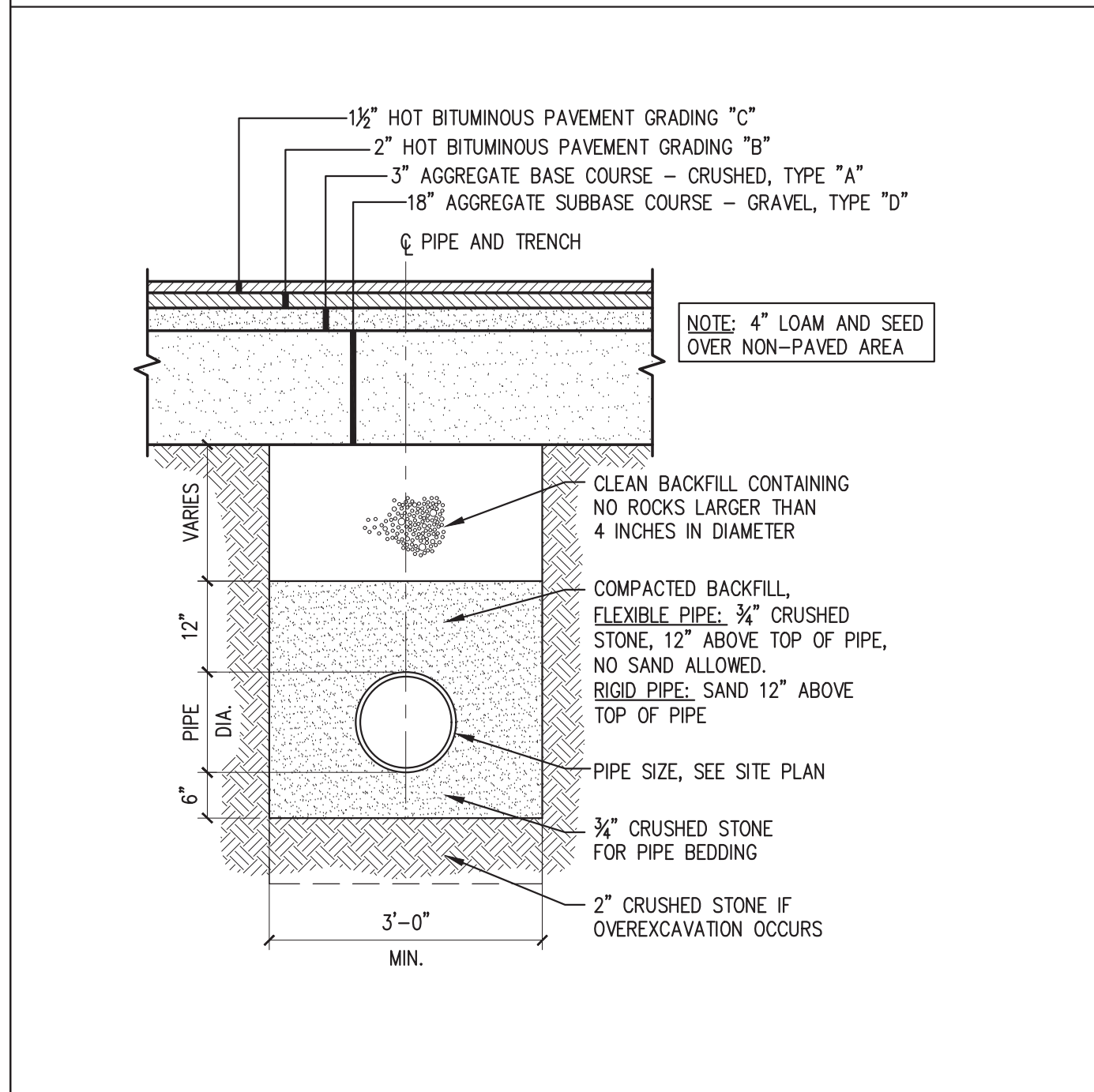


TYPICAL WATER LINE CONNECTION DETAIL NTS

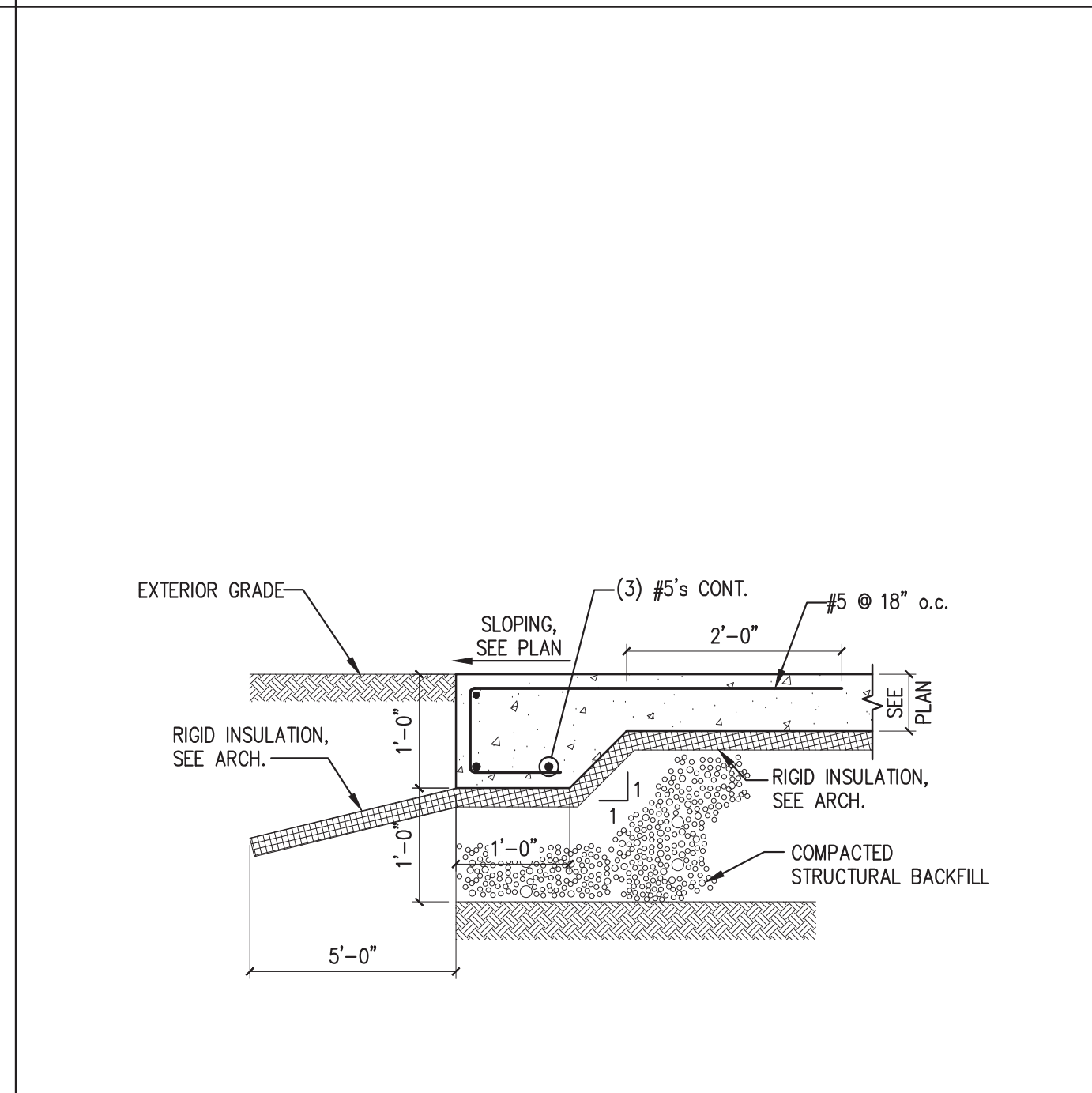
PROCEDURES:
 1. NEW VALVE TO REMAIN SHUT AND ONLY OPERATED BY DISTRICT FOR FLUSHING, TESTING, DISINFECTING, ETC.
 2. THE TESTING CORPORATION LOCATION MUST BE ACCESSIBLE BY:
 A. LEAVING THE EXCAVATION OPEN DURING TESTING - DISINFECTING PERIOD, OR BY:
 B. INSTALLING A "JUMPER LINE" TO THE GROUND SURFACE WITH THE CORPORATION BEING AN ANGLE VALVE IN A VALVE BOX, OR BY USING A SERVICE BOX AND ROD. AFTER COMPLETION OF THE HYDROSTATIC TEST AND THE DISINFECTING PROCEDURE:
 (1) THE ANGLE VALVE IS SHUT,
 (2) THE "JUMPER LINE" IS CUT OFF BELOW THE GROUND, AND
 (3) THE BOX IS PULLED.



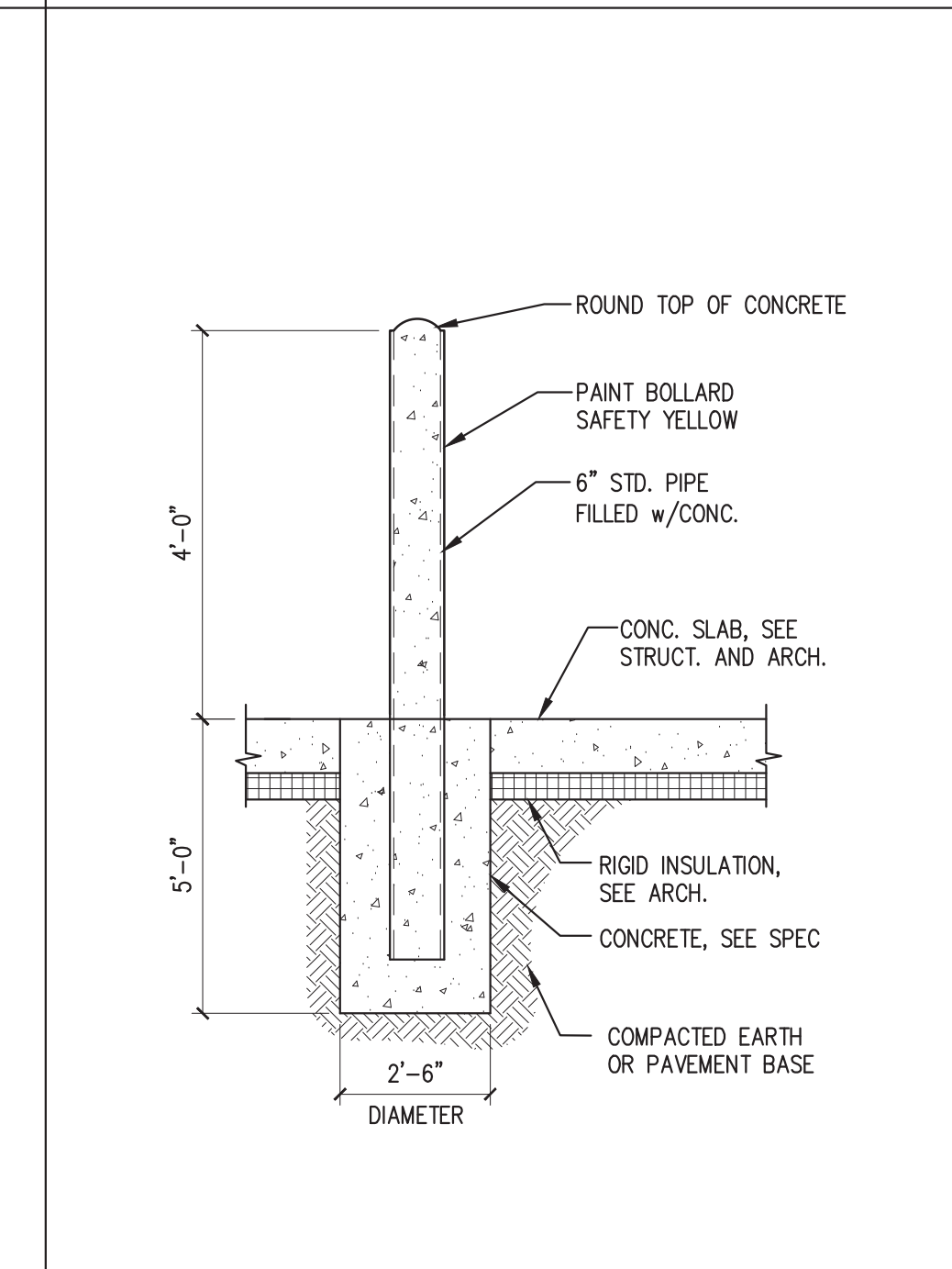
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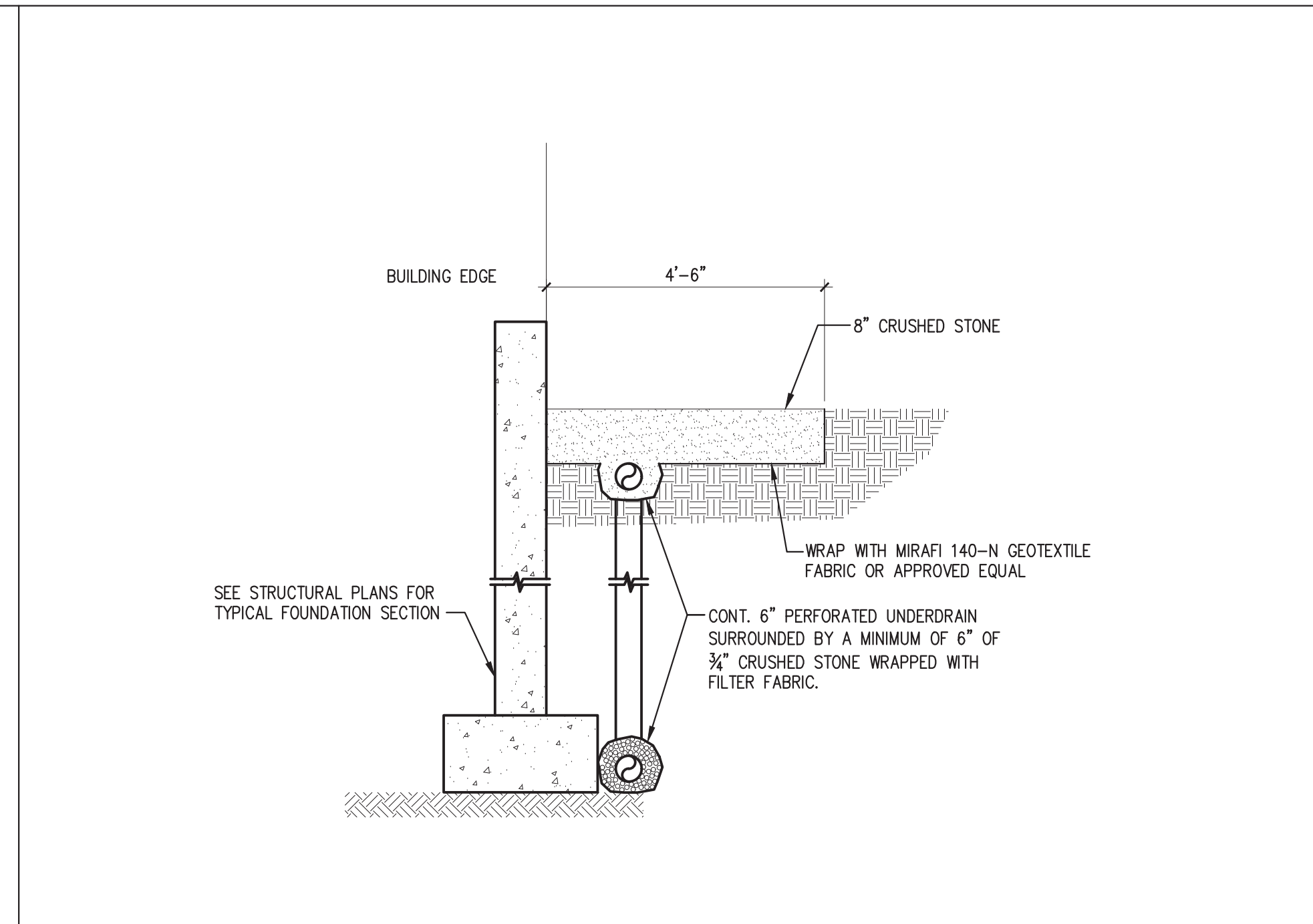
TYPICAL UTILITY TRENCH DETAIL NTS



TYPICAL CONCRETE PAD DETAIL NTS



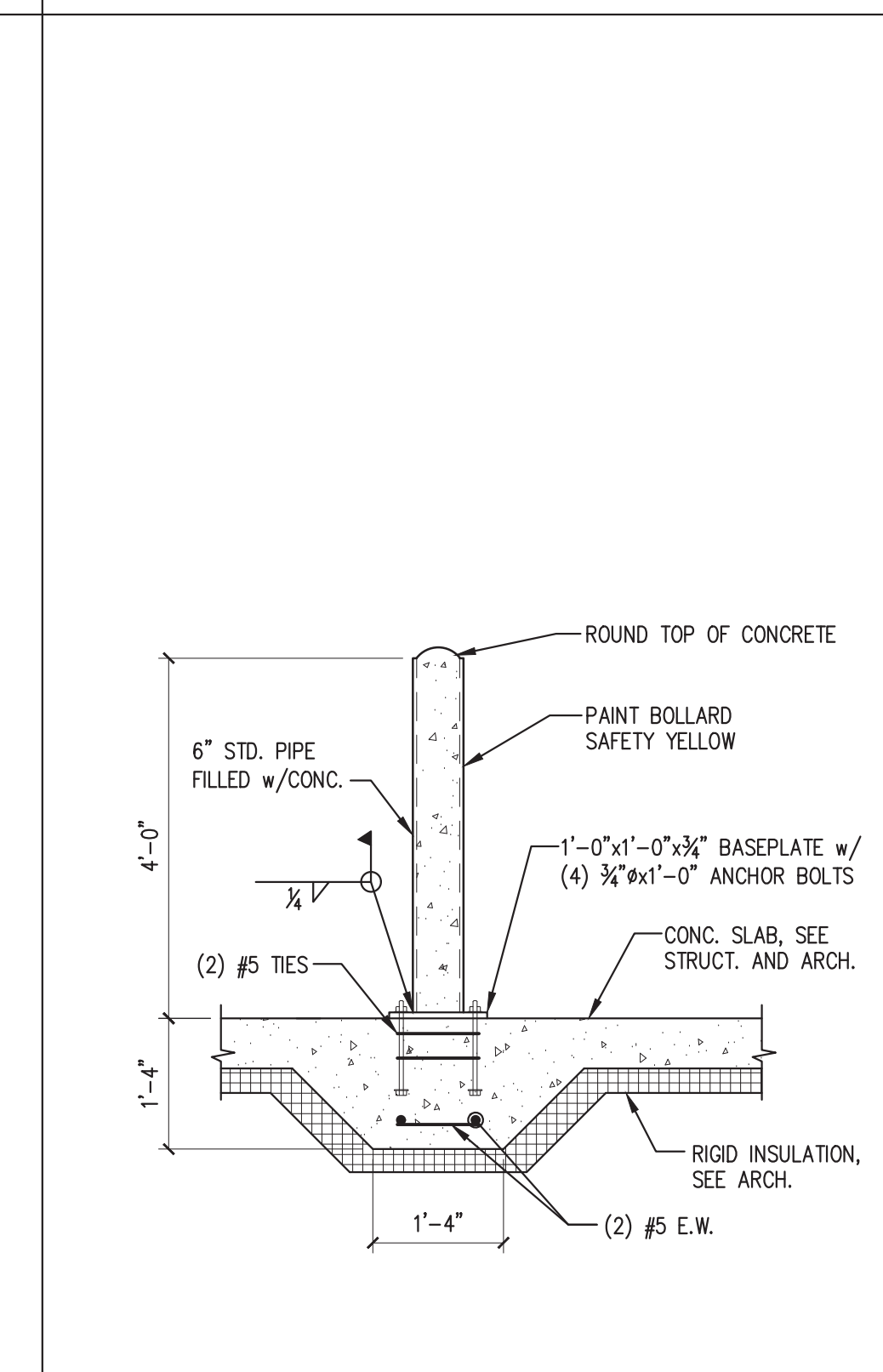
TYPICAL EXTERIOR BOLLARD DETAIL NTS



STONE DRIP EDGE SECTION



BOLLARD LOCATION PLAN NTS



TYPICAL INTERIOR BOLLARD DETAIL NTS

TRILLIUM ENGINEERING GROUP
 189 MAIN STREET SUITE 200
 YARMOUTH, ME 04096

David Matero
 Architecture
 49 Corbin Street
 Bath, Maine 04530
 207.349.4779
 info@davidmatero.com

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 (207) 865-9425

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		REVISION 2
		REVISION 3
		FIELD CHANGES

MDOT SHERMAN
 SITE DETAILS

SHEET NUMBER
C200

Code Analysis - MDOT Sherman Maintenance Building
12 Ordway Drive, Sherman, ME

New Metal Fabricated one story stand alone building totaling 9,000 sf to be used as a Fleet truck maintenance facility for the Maine Department of Transportation. The building will have overhead doors and personnel entry door on opposite sides for vehicles to drive through and for employees to enter and exit the facility. The building will not be sprinklered per the provided Code Review.

International Building Code 2015 - IBC Review

Chapter 3 Use and Occupancy Classification

Table 301.1 (1) Maximum allowable quantity per control area of hazardous materials posing a physical hazard	Footnote (p) The following shall not be included in determining the maximum allowable quantities: 1. Liquid or gaseous fuel in fuel tanks on vehicles
Section 311.2	S-1 Moderate Hazard Storage Motor vehicle repair garages complying with the maximum allowable quantities of hazardous materials listed in Table 307.1(1) (see Section 406.8)

Chapter 5 General Building Heights and Areas

Construction Type IIB / Unprotected, Not Sprinklered (NS)

Table 504.3 Height limitations	S-1 (NS) 55' New single story at peak 28'-4" - OK
Table 504.4 Number of Stories	S-1 2 Stories (NS) Single story only - OK
Table 506.2 Allowable Area Factor	S-1 17,500 sf (NS) Single Story total 9,000 sf - OK

Chapter 6 Types of Construction

Table 601 Ratings of Structure Elements

Primary structural frame	0 Hour / Existing to remain, 0 hr - OK
Exterior bearing walls	0 Hour / Existing to remain, 0 hr - OK
Interior bearing walls	0 Hour / Existing to remain, 0 hr - OK
Exterior nonbearing walls and partitions	0 Hour / Existing to remain, 0 hr - OK
Interior nonbearing walls and partitions	0 Hour / Existing to remain, 0 hr - OK
Floor construction	0 Hour / Existing to remain, 0 hr - OK
Roof construction	0 Hour / Existing to remain, 0 hr - OK

Table 602 Fire Resistance Rating Requirements for Exterior Walls

Less than 10'	1 Hour
More than 10'	0 Hour

Chapter 7 Fire and Smoke Protection Features

Table 705.8 Max Area of Exterior Wall Openings Based on Fire Separation Distance

0 to 3' (Unprotected, Not Sprinklered)	Not permitted
3' to 5' (UP) (NS)	Not permitted
5' to 10'	10%
10' to 15'	15%
15' to 20'	25%
20' to 25'	45%
25' to 30'	70%
More than 30'	No Limit

Section 711 Horizontal Assemblies

Section 7.11.2.3 Supporting Construction Supporting construction shall be of the same fire-resistive rating as the horizontal separation

Table 716.5 Open Fire Protection Assemblies, Ratings and Markings

Fire walls, 2 hour	1 1/2 Hour rating
Shaft, 1 hour	1 Hour
Exit enclosures, 1 hour	1 Hour
Corridor walls, 1 hour	20 Minute

Table 716.6 Limiting Size of Wired Glass Panels

1 and 1 1/2 hours	100 sq in, 33" max ht, 10" max width
3/4 hour	1,296 sq in, 54" max ht, 54" max width
20 minute	Not limited

Section 720.2 Concealed Insulating installation

Where concealed	Flame spread not more than 25 Smoke-developed index not more than 450
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Section 719.3 Exposed insulating installation

Where exposed	Flame spread not more than 25 Smoke-developed index not more than 450
Exception	Cellulose loose-fill (not spray) shall only meet smoke-developed not more than 450

Chapter 8 Interior Finishes

Section 803.1.1 Interior wall and ceiling finish material

Class A	Flame spread index 0-25; smoke-developed index 0-450
Class B	Flame spread index 26-75; smoke-developed index 0-450
Class C	Flame spread index 76-200; smoke-developed index 0-450

Table 803.11 Interior wall and ceiling finish requirements by occupancy

S-1 Moderate Hazard Storage	
-----------------------------	--

Exit enclosures and passageways Class B / Class C

Corridors Class B / Class C

Rooms and enclosed spaces Class C / Class C

Section 804.4 Interior floor finish requirements

Interior floor finish when nonsprinklered Not less than Class II and comply with DOCFF-1 "pill test"

Section 806 Decorative Materials and Trim

Fabric partitions suspended from the ceiling and not supported from floor Shall meet flame propagation performance criteria of NFPA 701 and Sec 806.2

Chapter 9 Fire Protective Systems - Existing System to remain and not modified

Section 903.2 S-1 Automatic Sprinkler System not required - proposed building is less than 12,000 sf and only a single story - OK

Chapter 10 Means of Egress

Section 1003.2 Ceiling height Not less than 7'-6"

Section 1003.3.1 Headroom

Protruding objects permitted to 80" if not more than 50% of the ceiling area is reduced

Exception Door closers and stops shall not reduce to less than 78"

When vertical clearance less than 80" Provide a barrier with a leading edge located 27" max above the floor

Section 1003.3.3 Horizontal projections

Horizontal projections Shall not project more than 4" when located between 27" and 80" above the walking surface

Exception Handrails allowed to project 4 1/2"

Table 1004.1.2 Occupant Load

First Floor Refer to support drawings

Storage Area (300 gross) = 30 Occupants

Total Occupants 30 Occupants

Section 1007.1.1 Two exits or exit access doorways

Where two exits, exit access doorways, exit access stairways or ramps, or any combination thereof, are required from any portion of the exit access, they shall be placed at a distance apart equal to not less than one-half of the length of the maximum overall diagonal dimension of the building or area to be served measured in a straight line between them. Interlocking or scissor stairways shall be counted as one exit stairway

Section 1009.1 Accessible Means of Egress

*Accessible spaces must be provided with an accessible means of egress. Exception, accessible means of egress not required in alterations to existing buildings

Section 1017 Exit Travel Distance

Table 1017.2 Exit Access Travel Distance * Note: refer to NFPA 101 2009 Table A7.6

S-1 = 250' - OK * Note: refer to new/existing Storage occupancy Table 42.2.5

Table 1020.1 Corridor Fire Resistance

S-1 with an occupant load less than 30 without a sprinkler system does not require a fire resistance rating - (24) OK

Table 1020.2 Minimum Corridor Width

Minimum width	3'-8"
With occupant load of less than 50	3'-0"

Section 1020.4 Dead Ends

Occupancy S-1

Where more than one exit or exit access doorway is required, the exit access shall be arranged such that there are no dead ends in corridors more than 20' in length

Chapter 11 Accessibility

Section 1104.5 Location

Accessible routes shall coincide with or be located in the same area as a general circulation path. Where the circulation path is interior, the accessible route shall also be interior. Where only one accessible route is provided, the accessible route shall not pass through kitchens, storage rooms, restrooms, closets or similar spaces

Section 1105.1 Public entrances

Min 60% entrances

Accessible entrance not required to areas not required to be accessible

Table 1106.1 Accessible Parking Spaces

Total parking spaces 1 to 25	Required min accessible spaces, 1
26 to 50	2
51 to 75	3
76 to 100	4
101 to 150	5

Section 1106.5 Van Spaces

For every 6 accessible spaces At least 1 shall be van-accessible

NFPA 101 2015 - Life Safety Code Review

Chapter 3 Definitions

Section 3.3.190.15 Storage Occupancy An occupancy primarily used for the storage or sheltering of goods, products, merchandise or vehicles

Chapter 4 General - Life Safety Code

Section 4.5.3.1 Number of Means of Egress

Two means of egress, as a minimum, shall be provided in every building or structure, section, and area, where size, occupancy, and arrangement endanger occupants attempting to use a single means of egress that is blocked by fire or smoke. The two means of egress shall be arranged to minimize the possibility that both might be rendered impassable by the same emergency condition.

Chapter 5 Performance-Based Option - Life Safety Code

Section 5.4.5.4 Number of Occupants

The design shall be based on the maximum number of people that every occupied room or area is expected to contain. Where the success or failure of the design is contingent on the number of occupants not exceeding a specified maximum, operational controls shall be used to ensure that the maximum number of occupants is not exceeded.

Chapter 6 Classification of Occupancy and Hazard Contents

Section 6.1.13.1 Storage Occupancy

An occupancy used primarily for the storage or sheltering of goods, merchandise, products or vehicles

For requirements, see Chapter 42

Section 6.2.1.1 Hazard of Contents

For the purpose of this Code, the hazard of contents shall be the relative danger of the start and spread of fire, the danger of smoke or gases generated, and the danger of explosion or other occurrence potentially endangering the lives and safety of the occupants of the building

Section 6.2.2.3 Classification of Hazard of Contents (Ordinary Hazard)

Ordinary hazard contents shall be classified as those that are likely to burn with moderate rapidity or to give off a considerable volume of smoke

Chapter 7 Means of Egress

Section 7.1.5.1 Means of egress headroom

Not less than 7'-6" with projections not less than 6'-8"

Table 7.3.1.2 Occupant Load Factor

First Floor - single story only Refer to support drawings

Storage occupancy (500 gross) = 18 Occupants

Section 7.5.1.4 Means of Egress

Where common paths of travel are permitted for an occupancy in Chapters 11 through 43, such common paths of travel shall be permitted but shall not exceed the limit specified

Section 7.5.1.5

Exit access shall be arranged so that there are no dead ends in corridors, unless permitted by, and limited to the lengths specified in, Chapters 11 through 43

Chapter 8 Features of Fire Protection

Section 8.3.3.3.1 Fire Doors

Fire door assemblies shall be installed, inspected, tested and maintained in accordance with NFPA 80

Section 8.3.3.3.5

Unless otherwise specified, fire doors shall be self-closing or automatic-closing

Chapter 9 Building Service and Fire Protection Equipment

Section 9.6.2.3

A manual fire alarm box shall be provided as follows, unless modified by another section of this code: (1) For new alarm system installations, the manual fire alarm box shall be located within 60 inches of exit doorways (2) For existing alarm system installations, the manual fire alarm box either shall be provided in the natural exit access path near each required exit or within 60 inches of exit doorways

Chapter 42 - New/existing Storage Occupancies

Section 42.1.1.1

The requirements of this chapter shall apply to both existing and new storage occupancies

Section 42.1.1.4

Storage occupancies shall include all buildings or structures used primarily for the storage or sheltering of goods, merchandise, products, or vehicles

Section 42.1.2.1

Storage occupancies shall include all buildings and structures or parts thereof with occupancy as defined in 6.1.13

Section 42.1.5.1 Classification of Hazard of Contents

Contents of storage occupancies shall be classified as low hazard, ordinary hazard, or high hazard in accordance with Section 6.2, depending on the quantity and character of the materials stored, their packaging, and other factors

Section 42.2.1.1 Means of Egress Requirements

Each required means of egress shall be in accordance with applicable portions of Chapter 7

Section 42.2.5 Dead end corridors

50 ft - Ordinary Hazard (Non-sprinklered)

Table 42.2.6 Maximum Travel Distance to Exits

200 ft - Ordinary Hazard (Non-sprinklered)

Section 42.3.3.2 Interior wall and ceiling finish

Interior wall and ceiling finish Class A or B

Section 42.3.3.3.1 Interior floor finish

Interior floor finish shall not be less than Class II

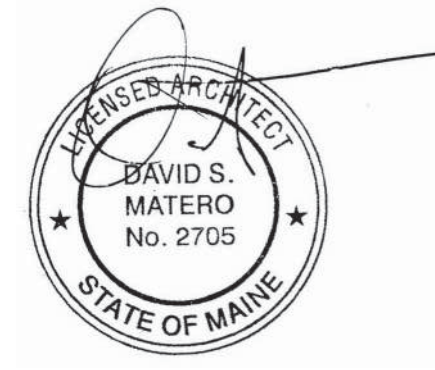
Table 42.7.5.2 Travel Distance to Exits

200 ft - Ordinary Hazard (Non-sprinklered)

INTERNATIONAL ENERGY CONSERVATION CODE - 2015 Edition

Commercial Energy Efficiency - Note: ci = continuous insulation / LS = Liner System

BUILDING ENVELOPE REQUIREMENTS	R- RATED VALUES	U-Factor Method	CODE REFERENCE
Climate Zone 7 - Opaque Assemblies	*All Other - Roofs		IECC Chapter 4
Insulation Entirely Above Roof Deck	R-35 ci	U-0.028	IECC Table C402.1.3
Metal Bldgs with R-5 Thermal Blocks	R-30 + R-11 LS - Provided	U-0.029	and Table C402.1.4
Attic and Other	R-49	U-0.021	
	*All Other, Walls Above Grade		
Mass	R-15.2 ci	U-0.071	
Metal Building	R-13 + R-13 ci - Provided	U-0.052	
Metal Framed	R-13 + R-7.5 ci	U-0.064	
Wood Framed and Other	R-13 + R-7.5 ci	U-0.051	
	or R-20 + R-3.8 ci		
	*All Other, Walls Below Grade		
Below Grade Wall [with no heated slabs]	R-10 ci	C-0.092	
	*All Other - Floors		
Mass	R-15 ci	U-0.055	
Joist/Framing (steel/wood)	R-30	U-0.033	
	*All Other, Slab-on-Grade Floors		
Unheated Slabs	R-15 for 24" below	F-0.40	
Heated Slabs	R-20 for 24" below	F-0.55	
	*All Other, Opaque Doors		
Nonswinging	R-4.75		
Swinging		U-0.37	



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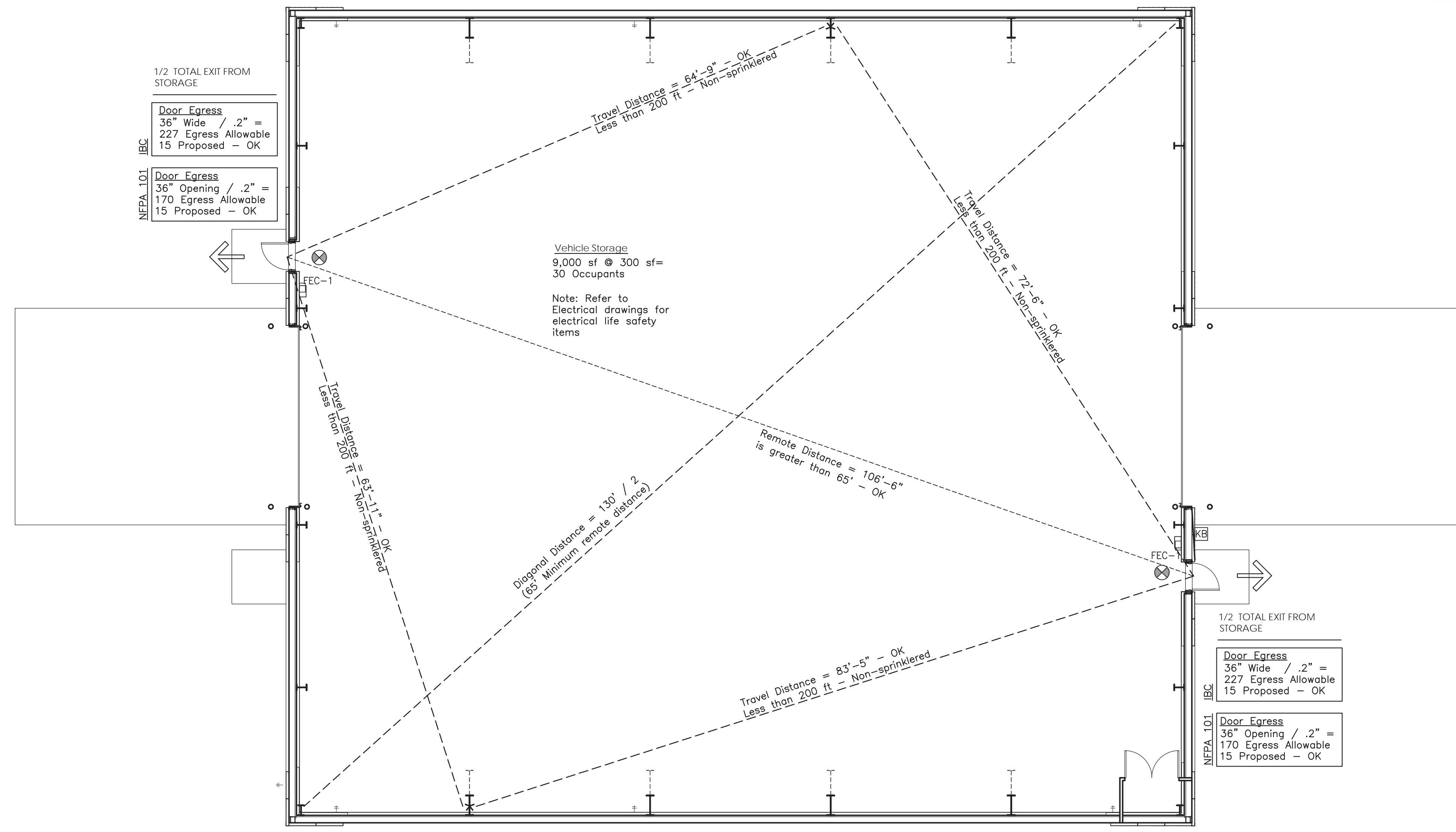
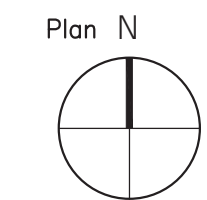
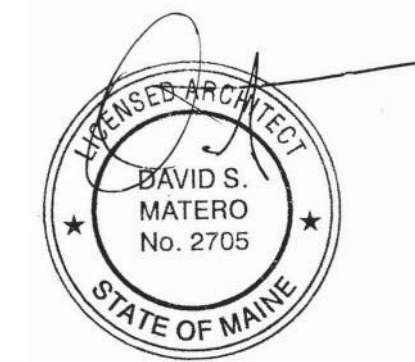


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Code Analysis
Issued for Bid
No Scale

SHEET NUMBER

R.1



1 Proposed First Floor Plan

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

NOTES

- Life safety equipment and locations shall conform to all applicable codes.
- Fully test and inspect sprinkler system.
- Provide smoke detectors on both sides of doors with magnetic hold opens if specified.
- Provide pull station at each assembly door egress.
- Provide duct smoke detectors at each 2,000 CFM supply duct.
- Provide duct smoke detectors at each 15,000 CFM supply and exhaust duct.
- Obtain water supply flow test if available within last three years, if not available test must be conducted.
- All sprinkler heads must be quick response type.
- Electrical outlets shall be provided for all plug-in equipment. All other outlets shall be located per all applicable codes.
- Provide laminated floor plan at each public room indicating direction to building exit.

Fire Extinguisher Cabinet
FEC-1 Wall mounted Fire Extinguisher by Larsen or approved equivalent

- Portable Fire Extinguishers:**
- Location of fire extinguishers and cabinets shall conform to NFPA 10 Standards for Fire Extinguisher Cabinets.
 - Portable fire extinguisher rating shall be 2-A, spacing shall not exceed a maximum of 75' and 3,000 sf.
 - Portable fire extinguisher rating in combustible cooking media exist shall be rated Class K, spacing shall not exceed a maximum travel distance of 30'

SYMBOL LEGEND (REFER TO ELECTRICAL DRAWINGS)

- LED Exit Light (unswitched)
- Two Head Emergency Lighting per Electrical Drawings
- Fire Alarm Audio/Visual, mount 6'-8" AFF, dB Level in Field
- CO / NO2 Detection System per Electrical Drawings
- Fire Alarm pull station, mount 48" AFF
- Fire Alarm Control Panel Station
- Knox Box (location and type to be approved by Sherman Fire Department)
- Fire extinguisher cabinet and type

Vehicle Storage Building

Egress - IBC (Table 1004.1.1)		
First Floor		
Vehicle Storage	9,000 sf @ 300 gross =	30 Occupants
Total All Spaces		30 Occupants

Egress - Life Safety (Table 7.3.1.2 Occupant Load Factor)		
First Floor		
Vehicle Storage	9,000 sf @ 500 sf gross =	18 Occupants
Total All Spaces		18 Occupants

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YARMOUTH, ME 04096
David Matero
Architecture
48 Corbin Street
Bath, Maine 04530
207.289.4278
info@trilliumeng.com

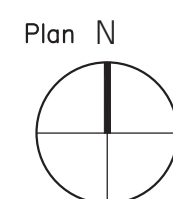
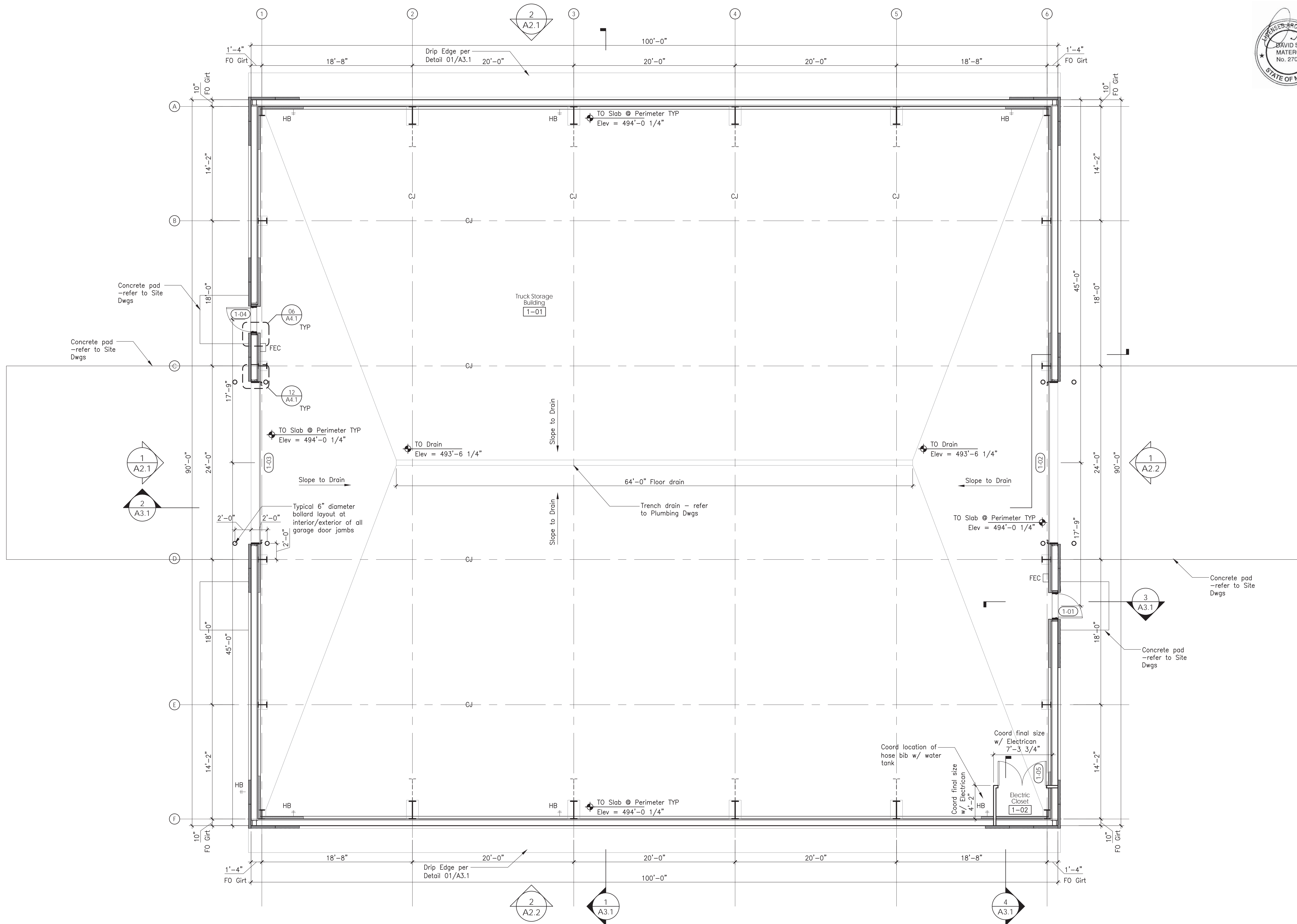
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Code Review Floor Plan
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Scale: -As Noted

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R.2



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David Matero
 ARCHITECTURE
 49 Corbin Street
 Bath, Maine 04530
 207.399.4278
 info@davidmatero.com

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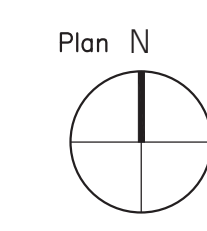
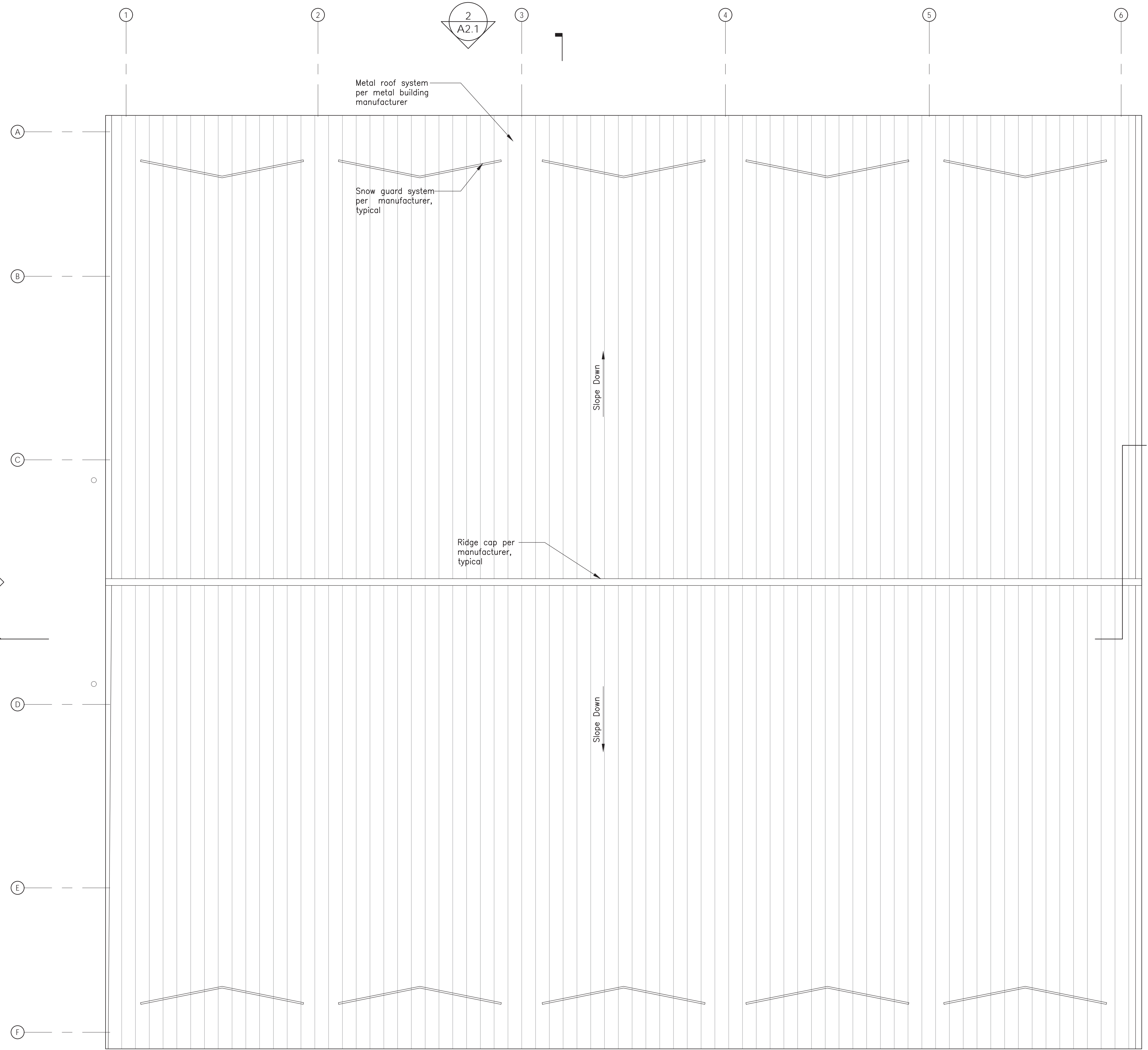
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Proposed First Floor Plan
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 Scale: 3/16" = 1' - 0"

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A1.1

1 Proposed First Floor Plan

Scale: 3/16" = 1' - 0"



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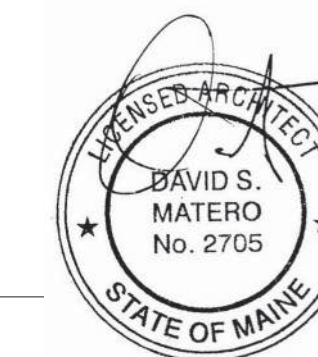
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CHECKED-REVIEWED	DSM	03/06/20	ME
REVISION 1	DSM	11/18/21	2020.01.28
REVISION 2			DATE
REVISION 3			DATE
FIELD CHANGES			

Proposed Roof Plan
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 Scale: 3/16" = 1' - 0"

SHEET NUMBER
A1.2

2 Proposed Roof Plan

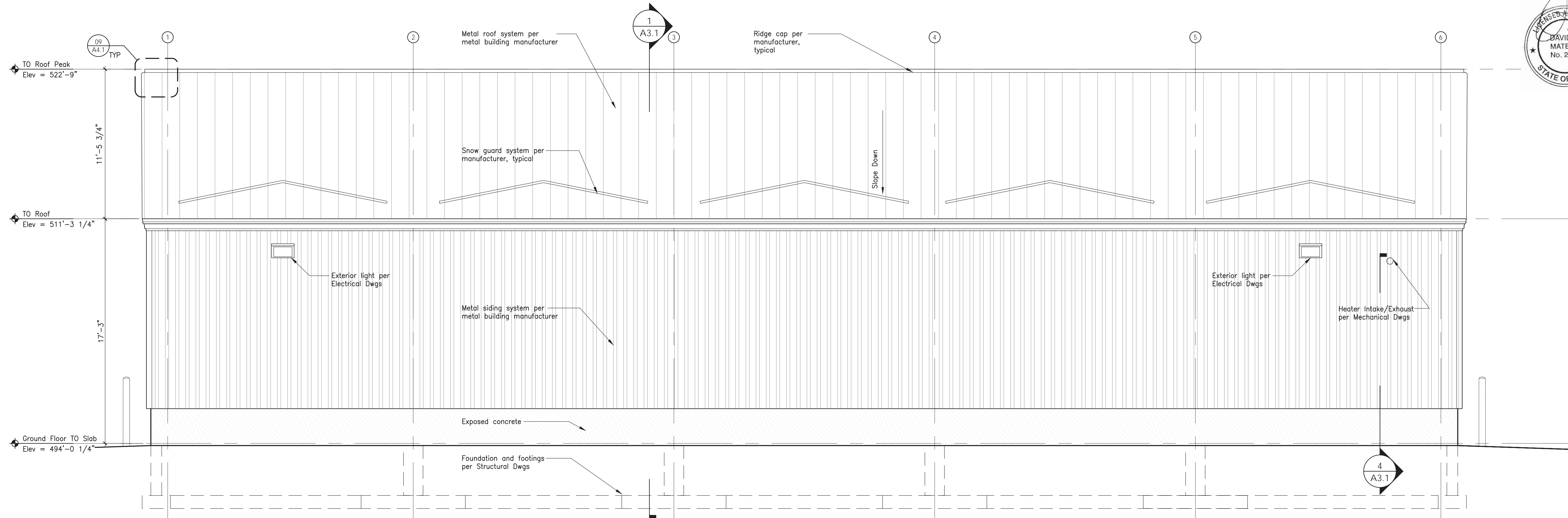
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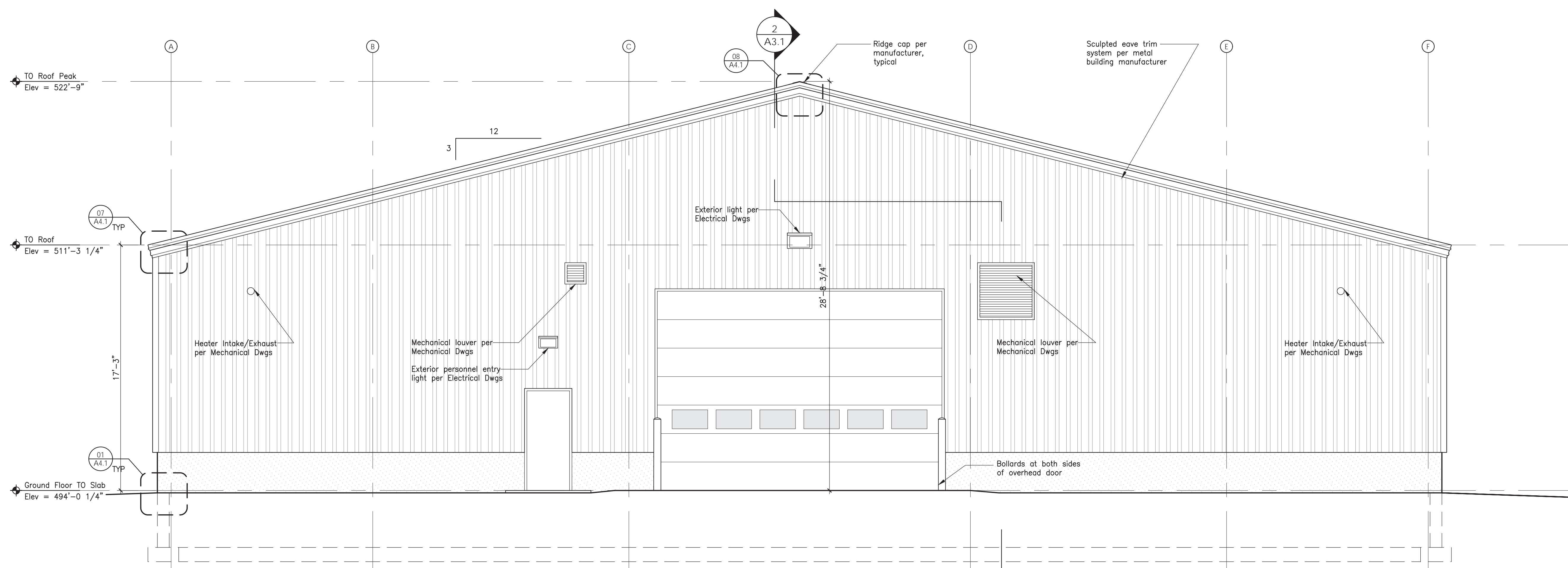
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2 Proposed East Exterior Elevation

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



1 Proposed South Exterior Elevation

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

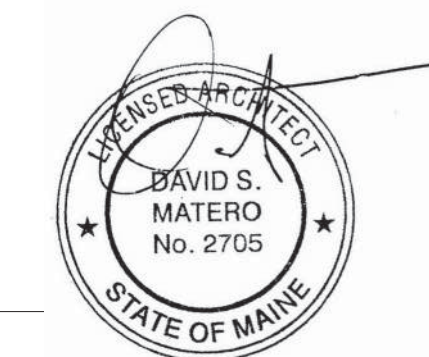
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Proposed South and West Elevations
 Issued for Bid
 Scale: 1/4" = 1'-0"

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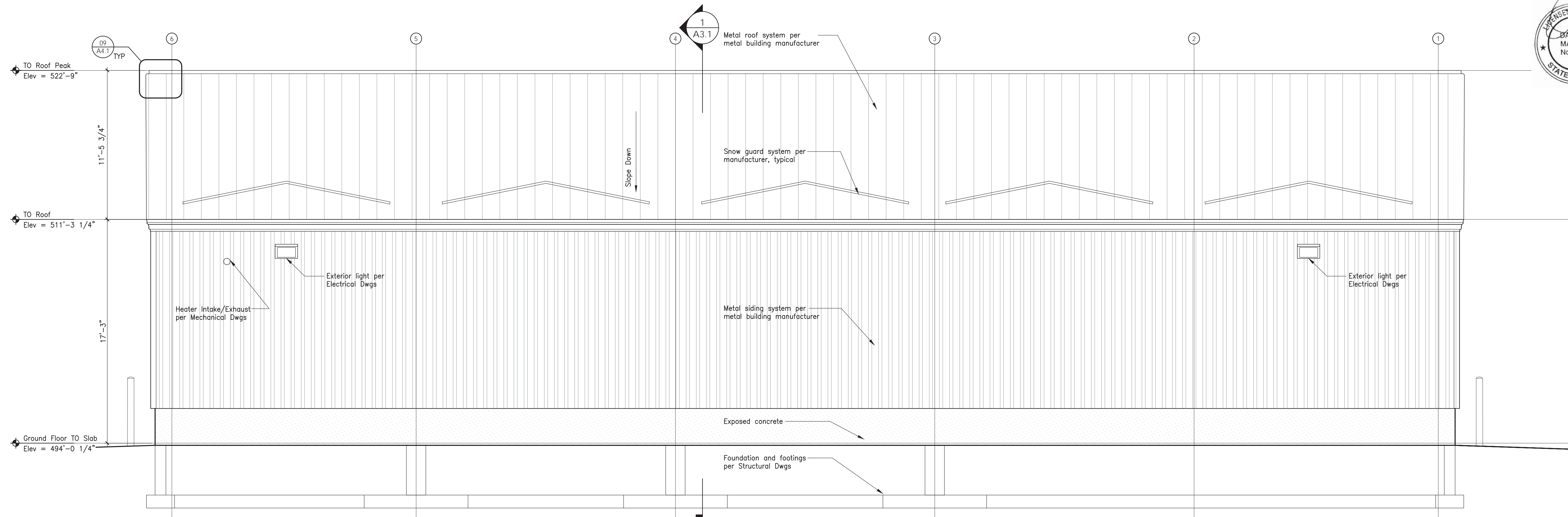
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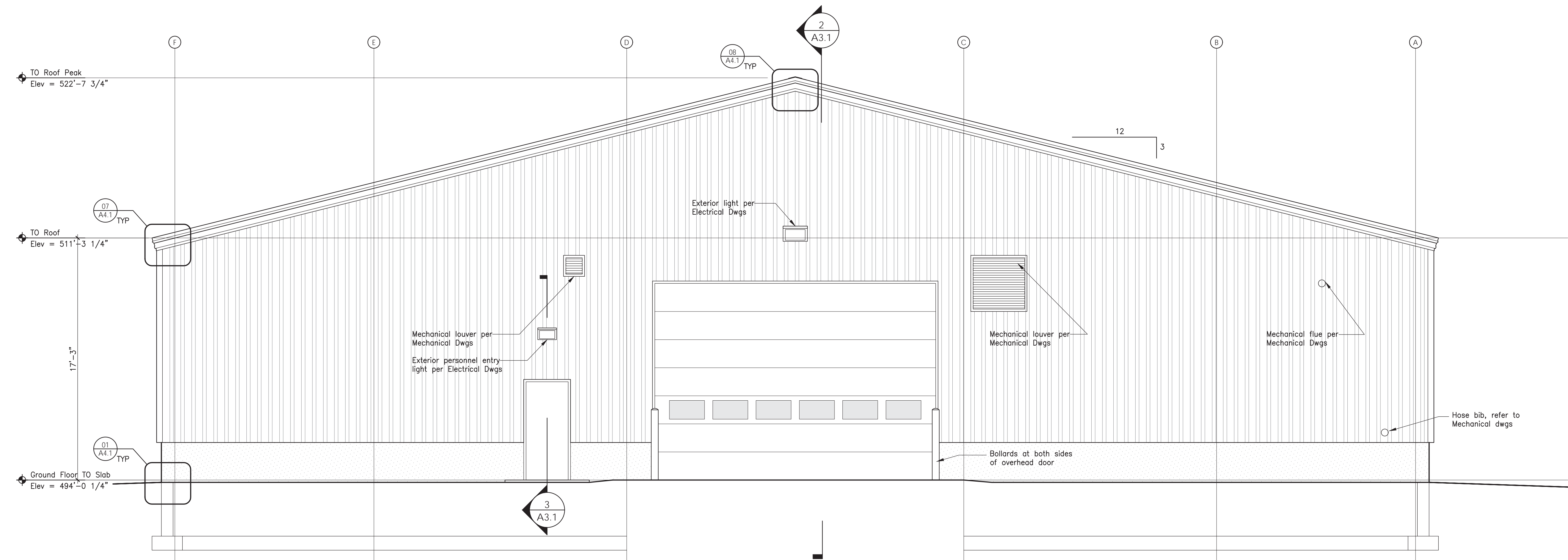
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2 Proposed West Exterior Elevation

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



1 Proposed North Exterior Elevation

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

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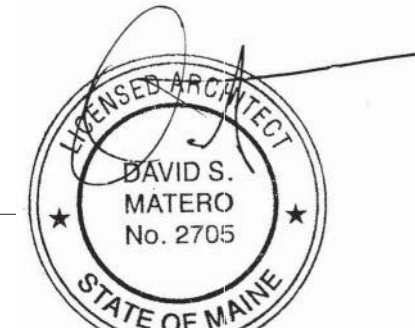
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		2020.01.28

Proposed North and South Elevations

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

SHEET NUMBER

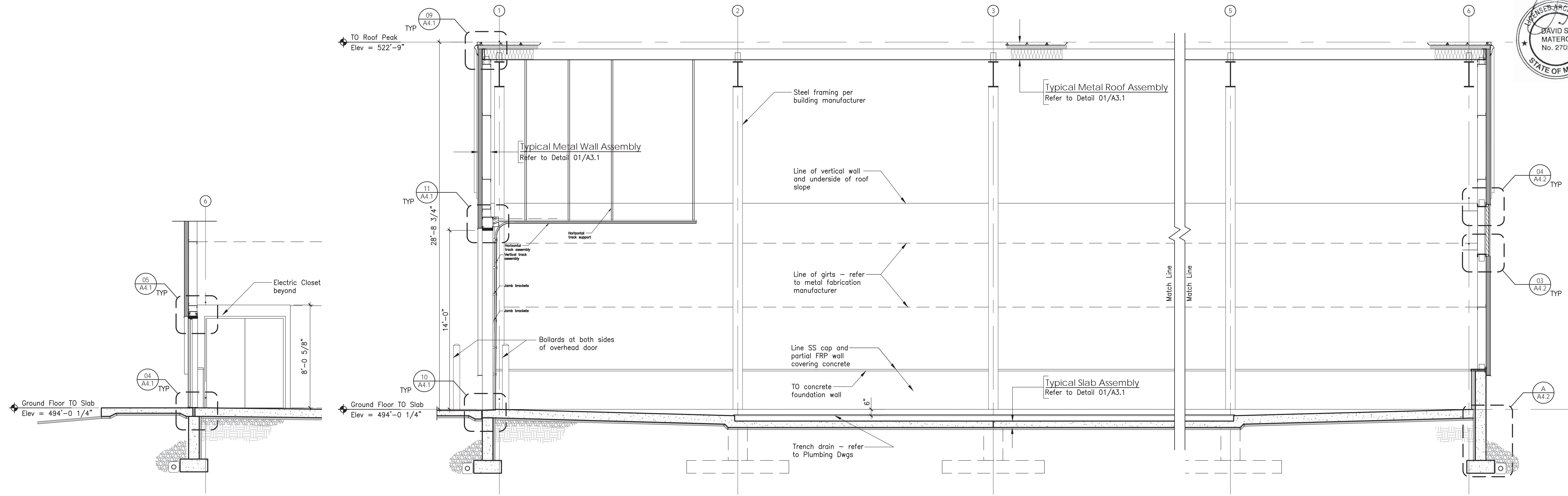
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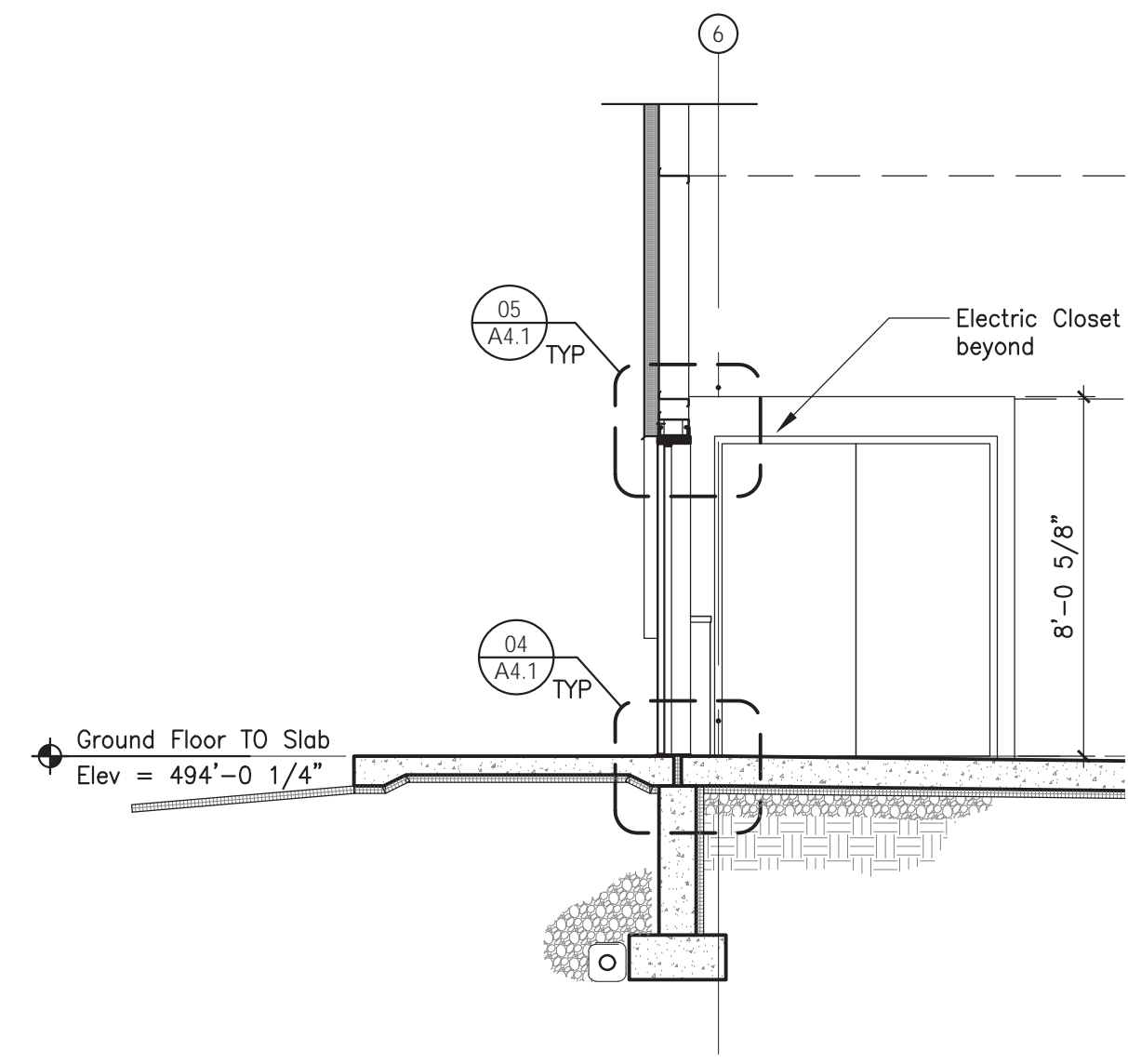


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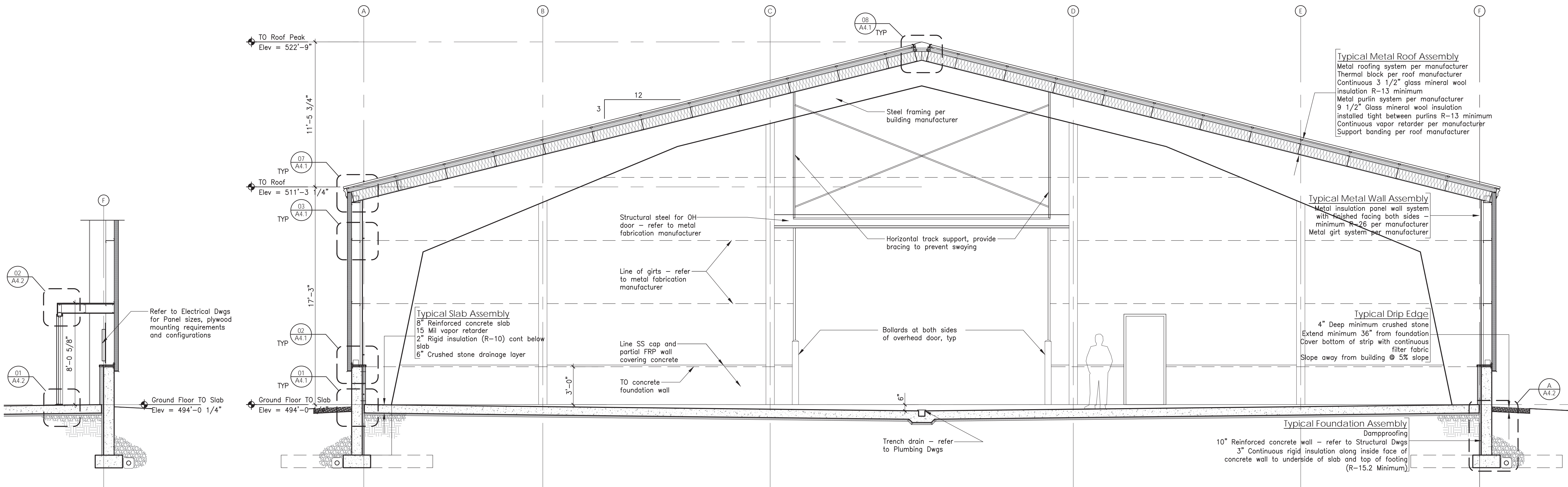
2 Building Cross Section

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



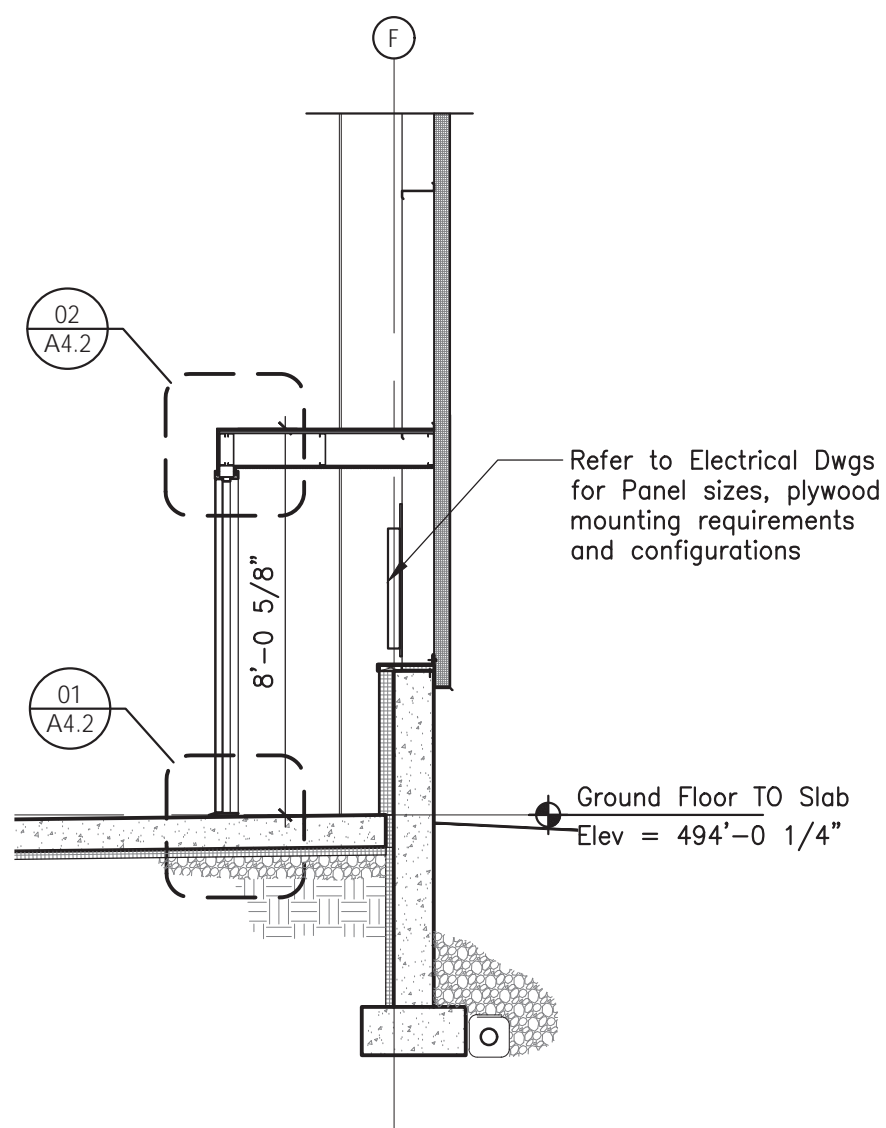
3 Partial Section @ Exit Door, Typical

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



1 Building Section

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



4 Partial Section @ Elect Closet

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

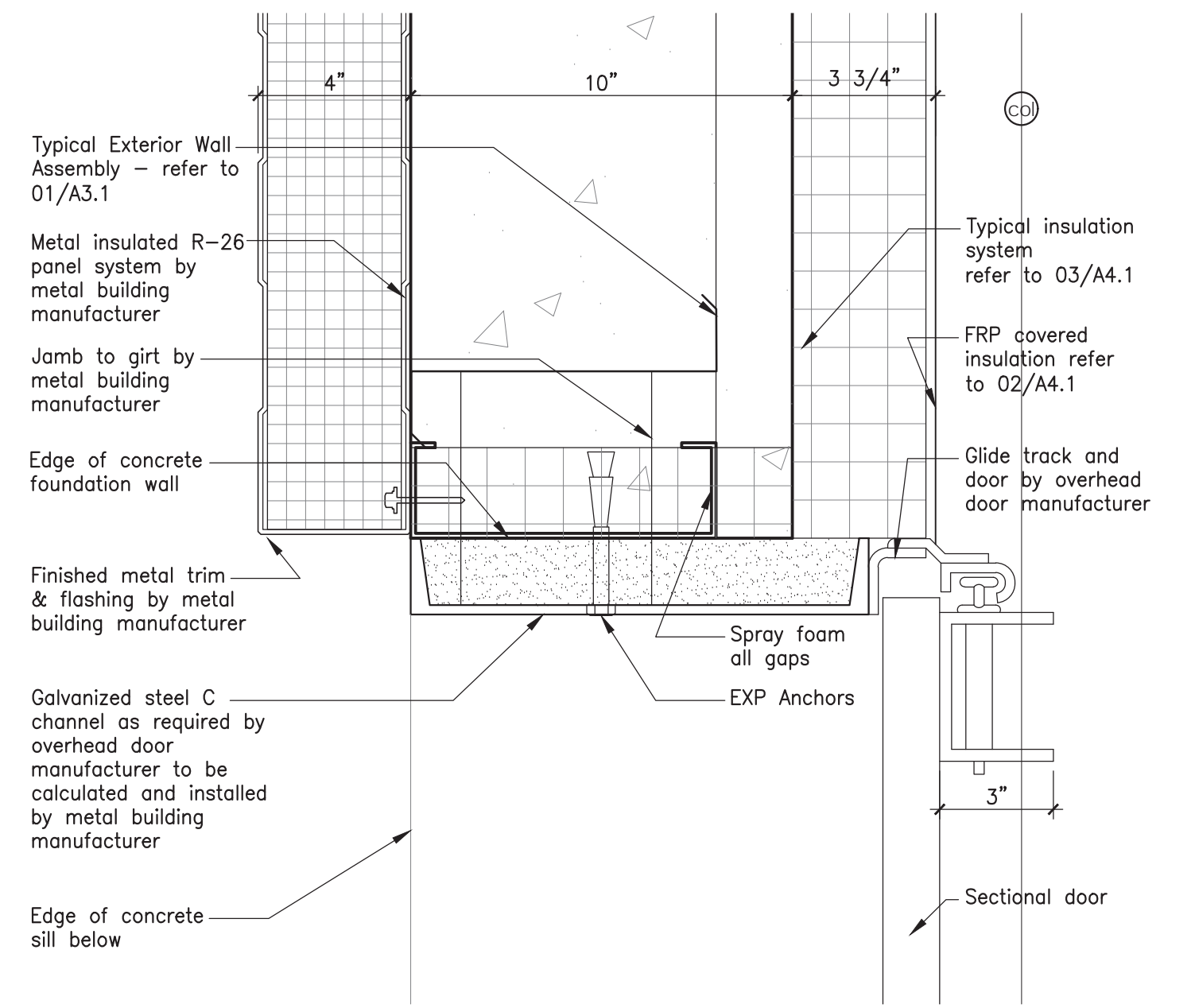
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Building Sections

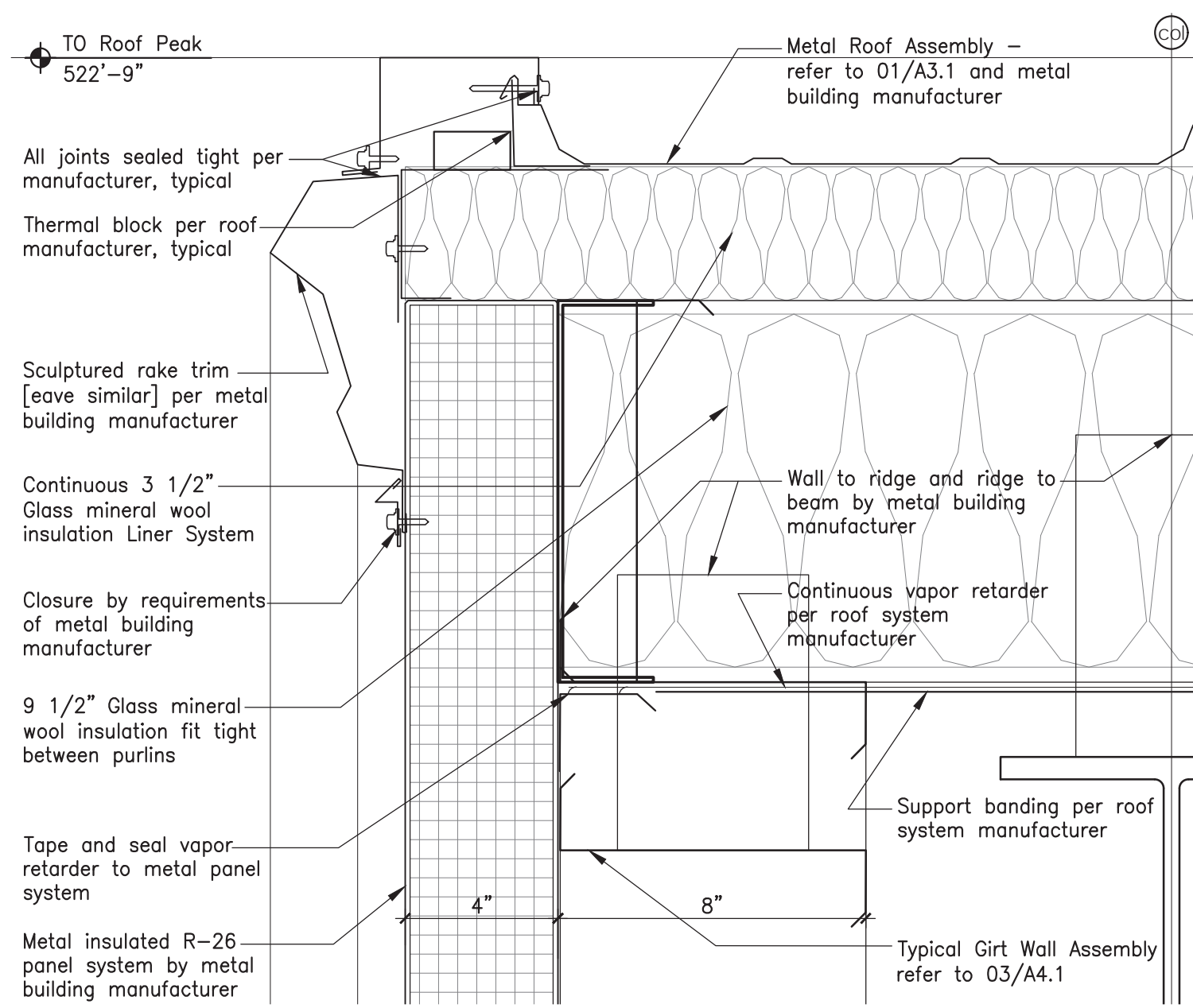
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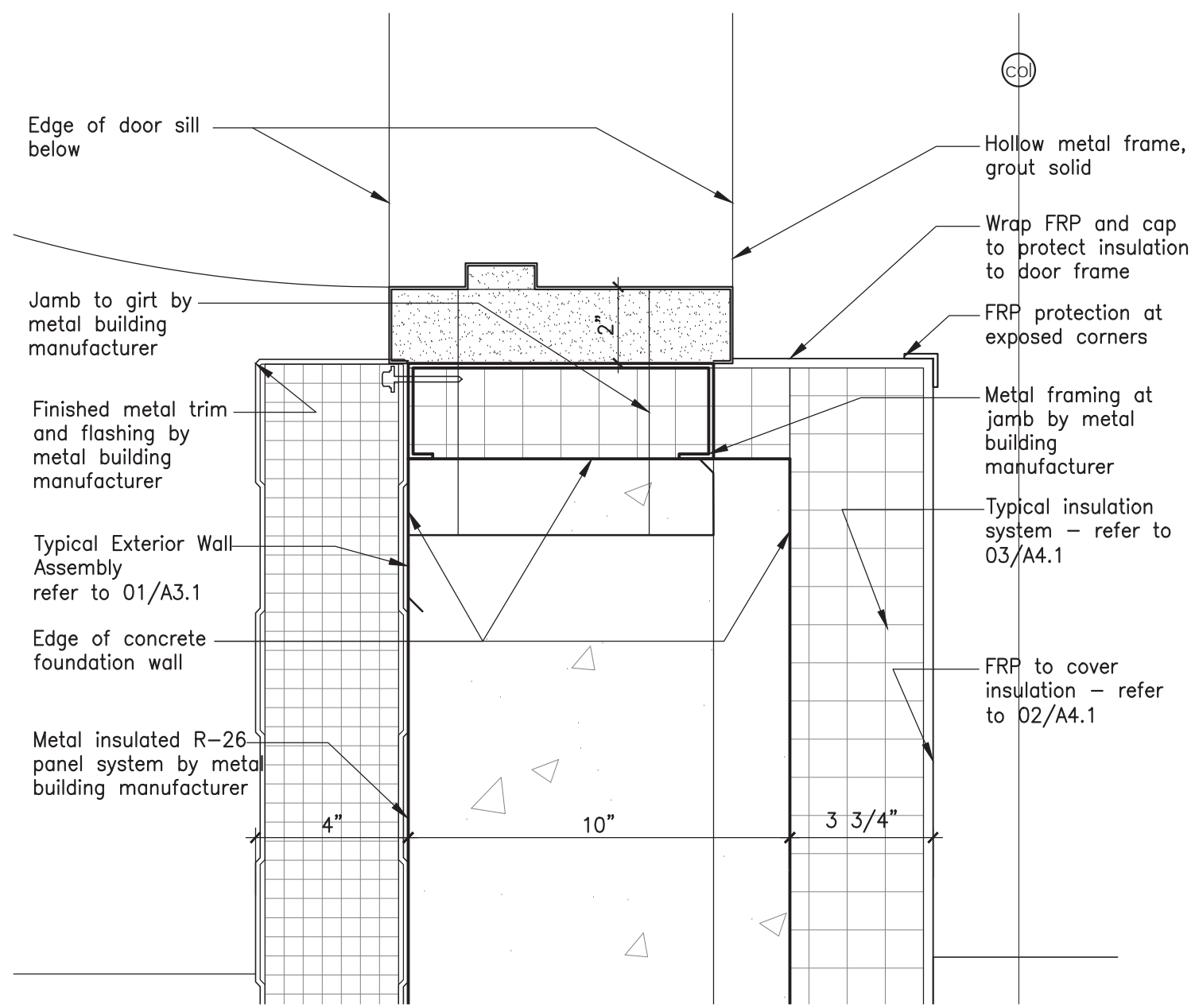
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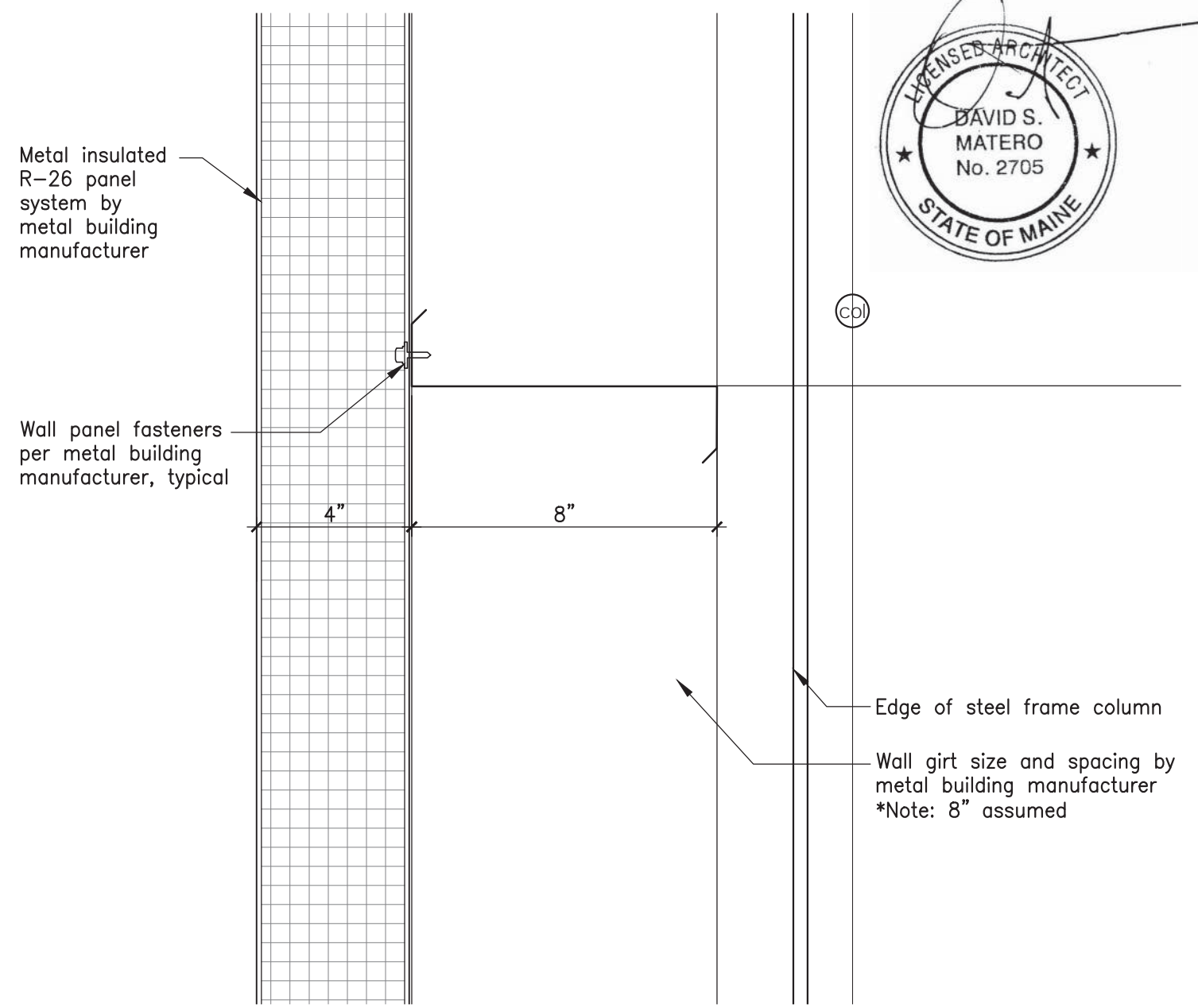
12 Plan Detail @ Overhead Door Jamb Scale: 3" = 1'-0"



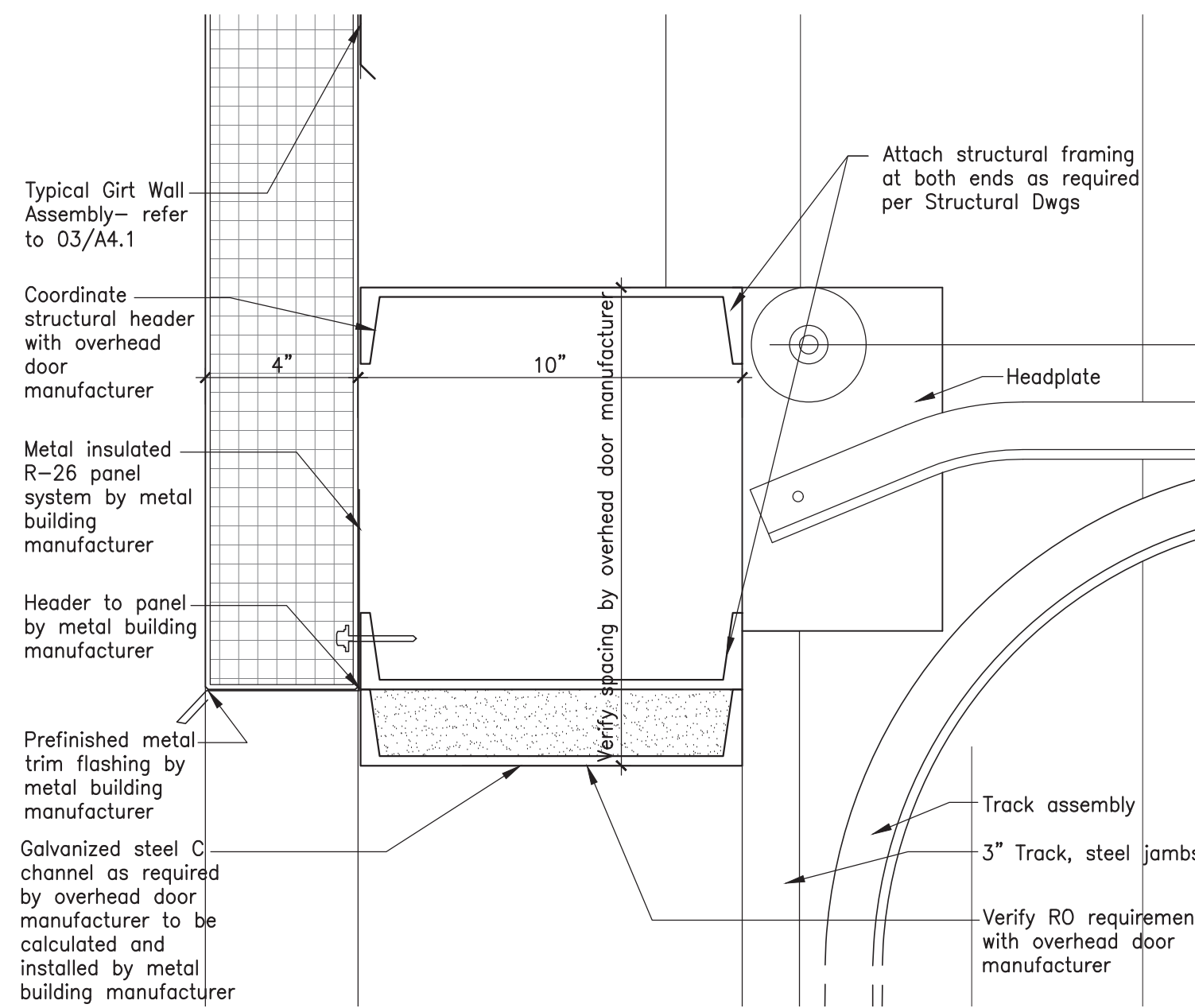
09 Section Detail @ Rake Scale: 3" = 1'-0"



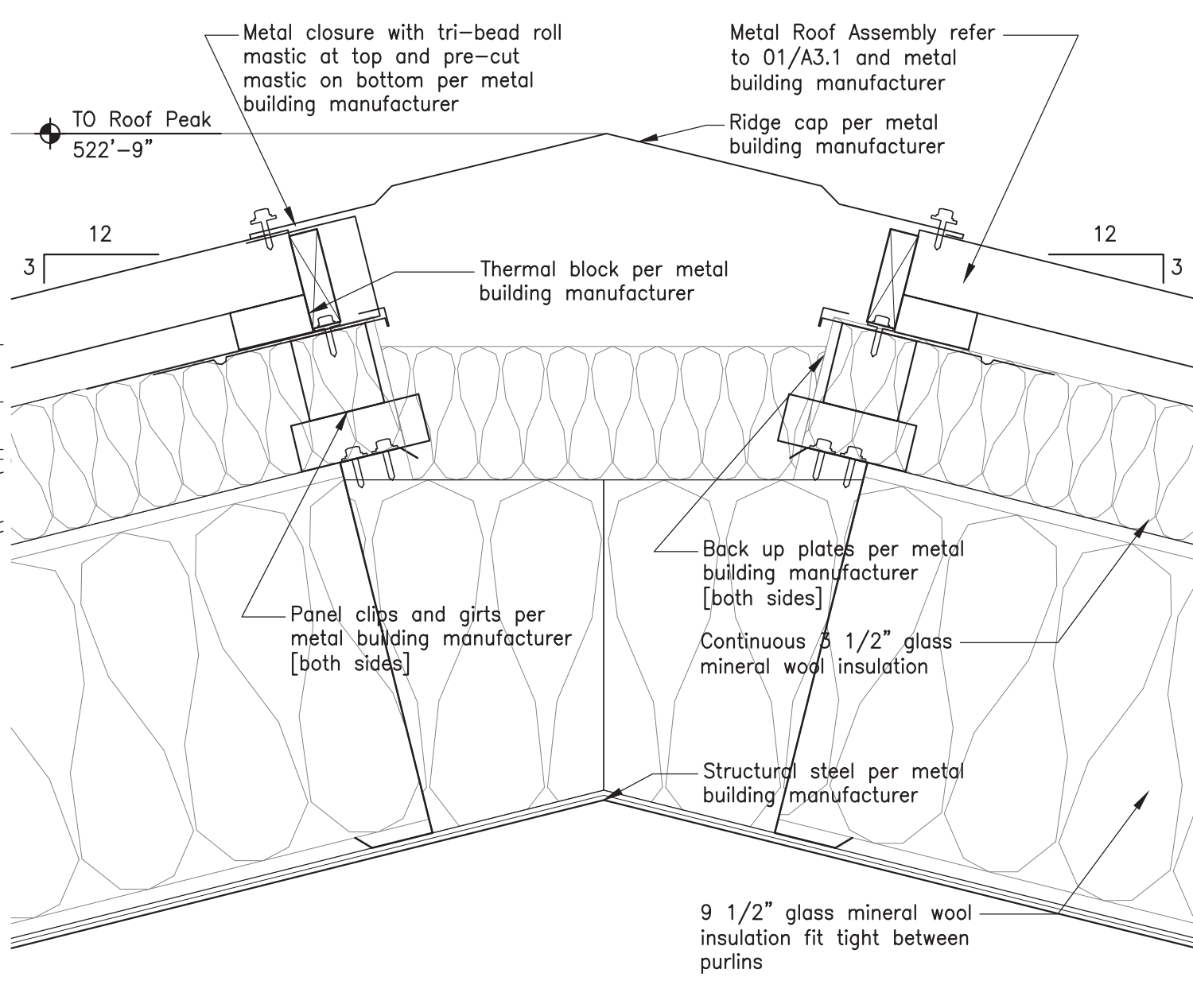
06 Plan Detail @ Exterior Door Jamb Scale: 3" = 1'-0"



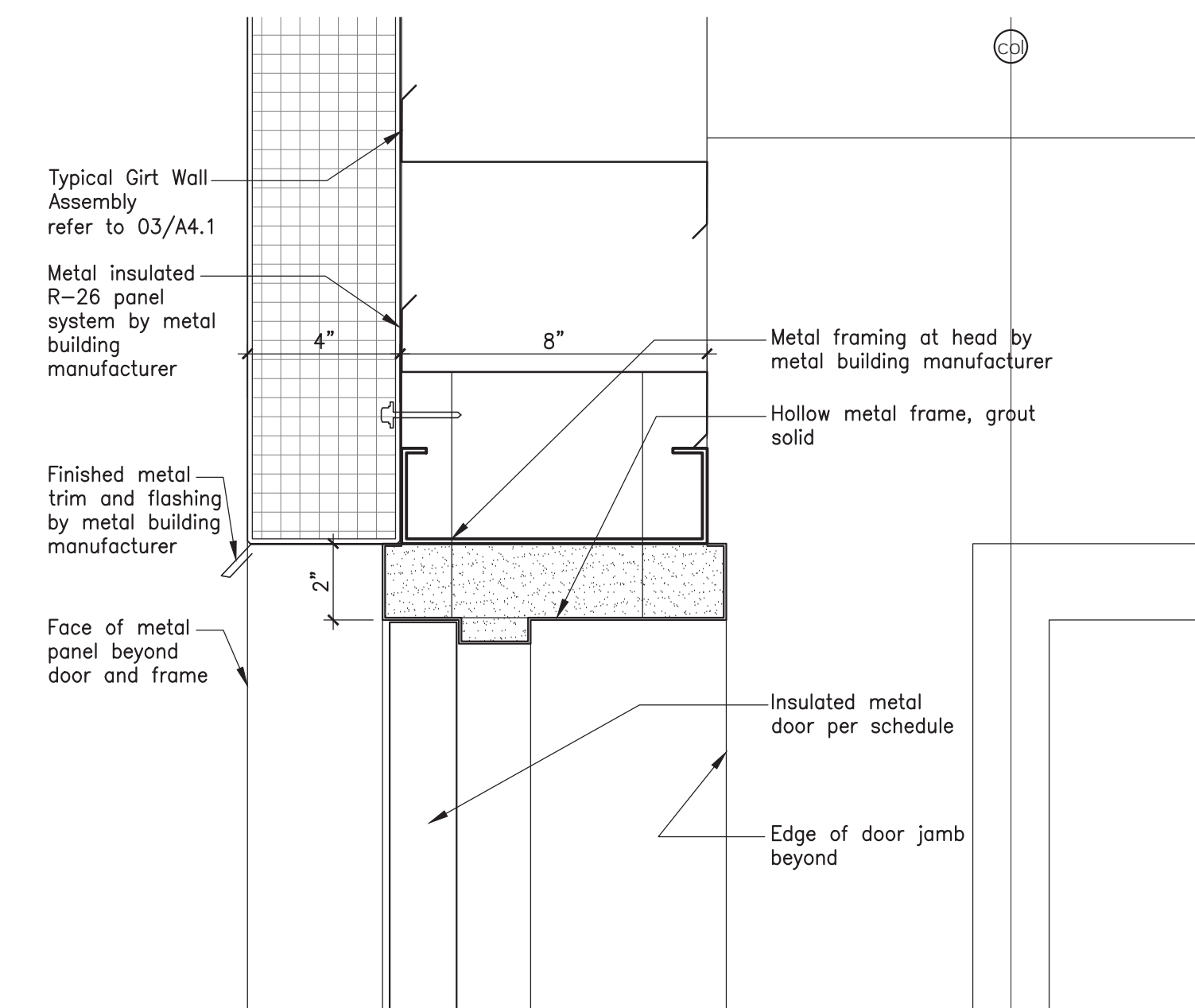
03 Section Detail @ Typical Steel Girt Wall Assembly Scale: 3" = 1'-0"



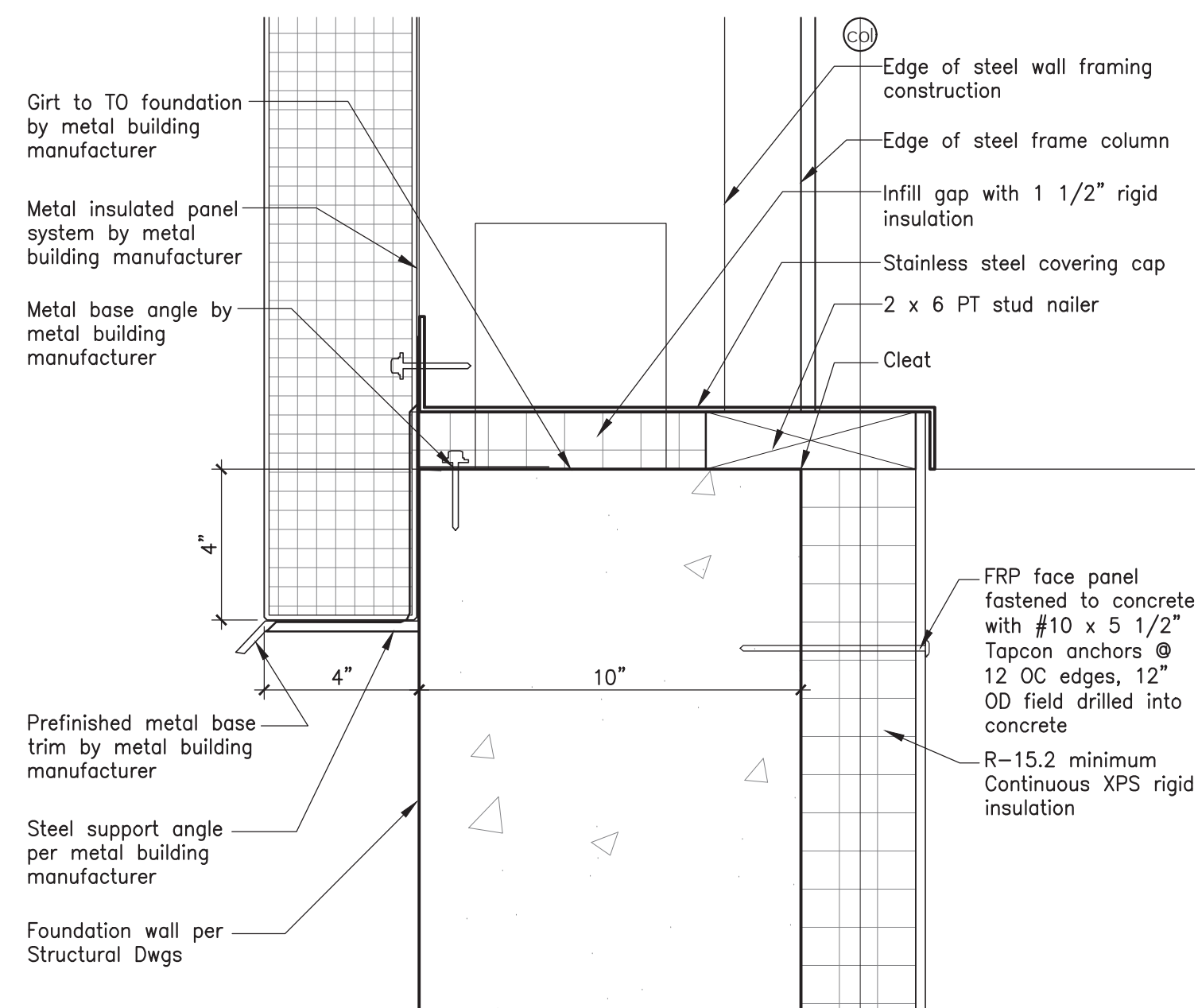
11 Section Detail @ Section Door Head Scale: 3" = 1'-0"



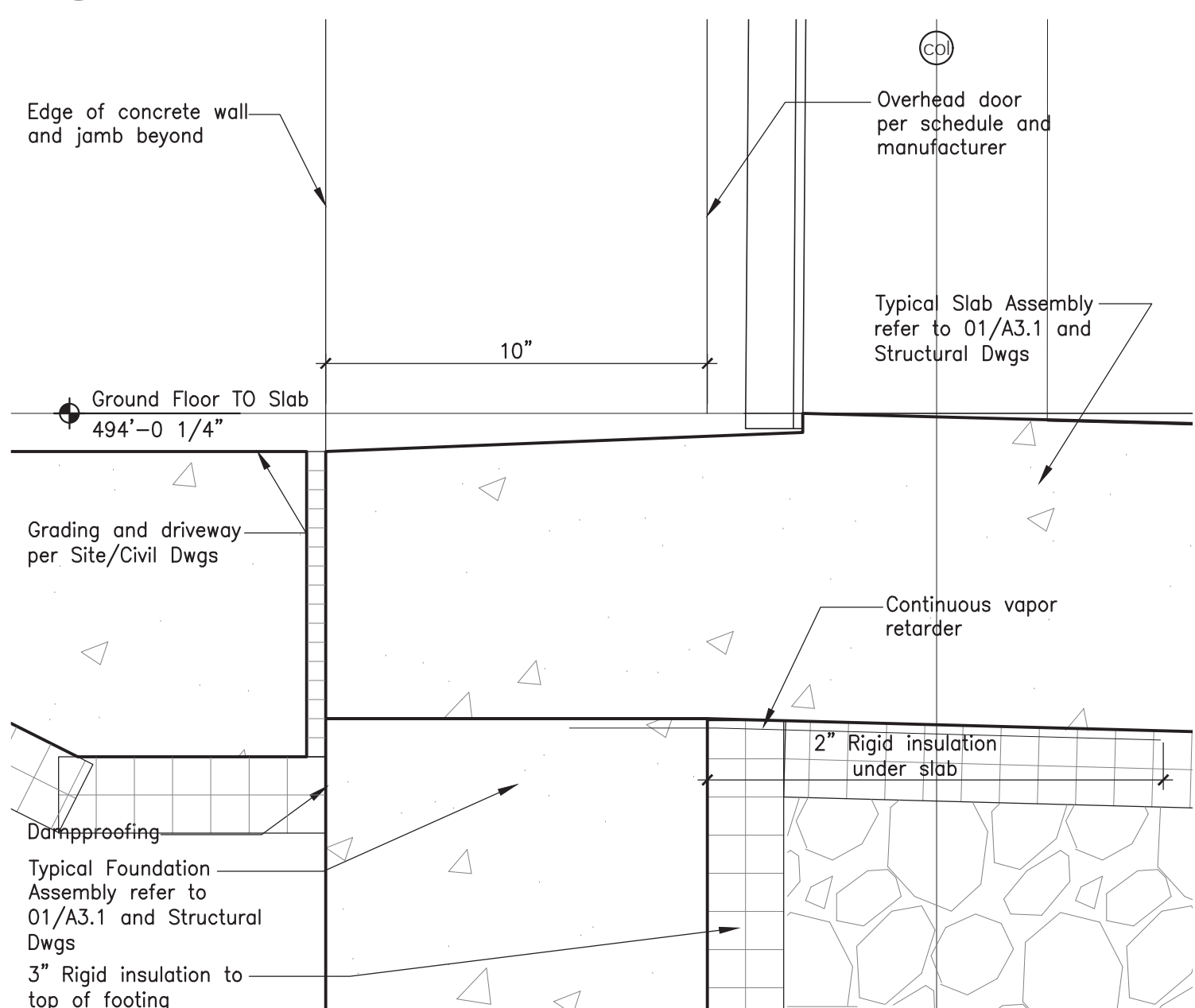
08 Section Detail @ Ridge Scale: 3" = 1'-0"



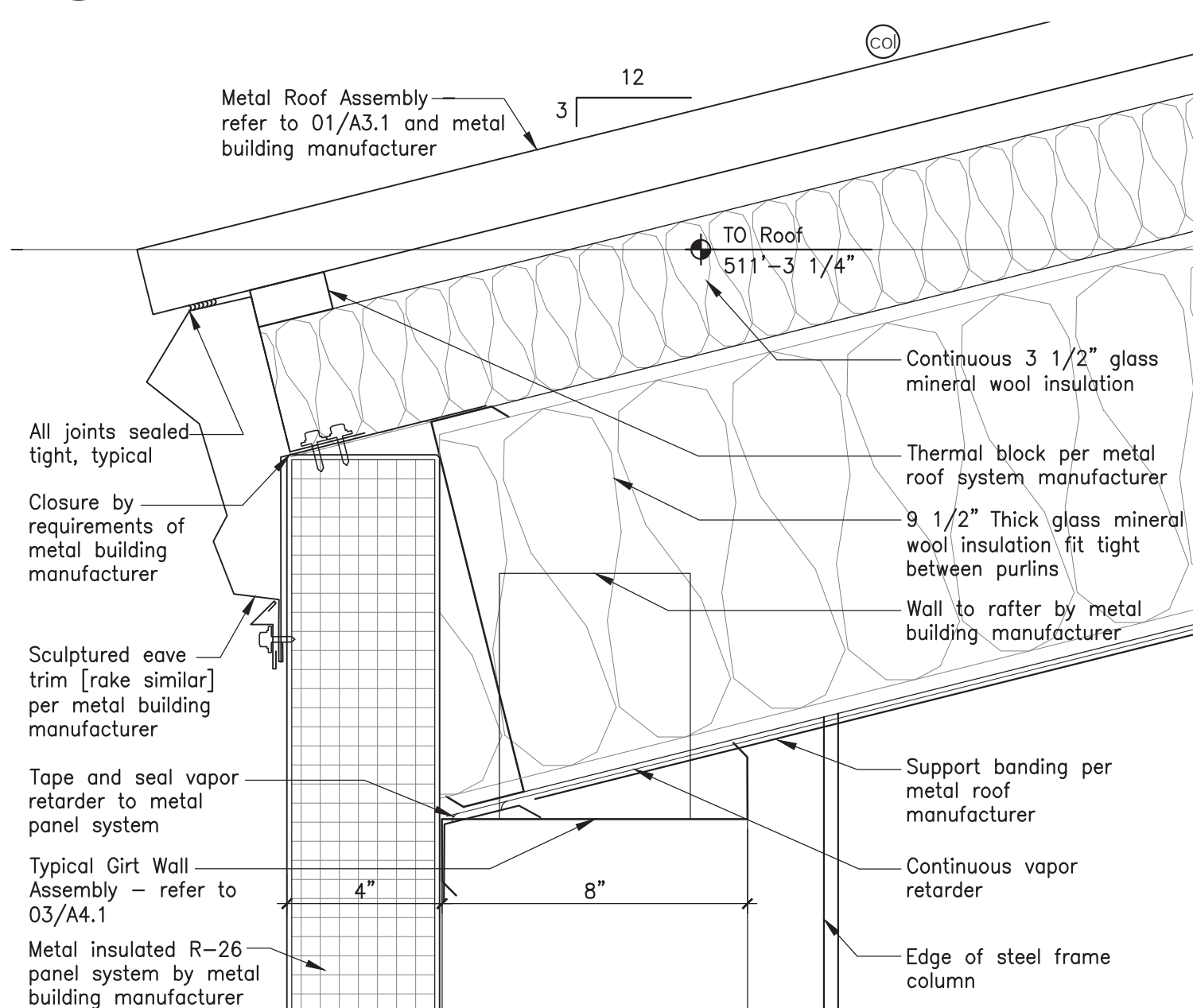
05 Section Detail @ Exterior Door Head Scale: 3" = 1'-0"



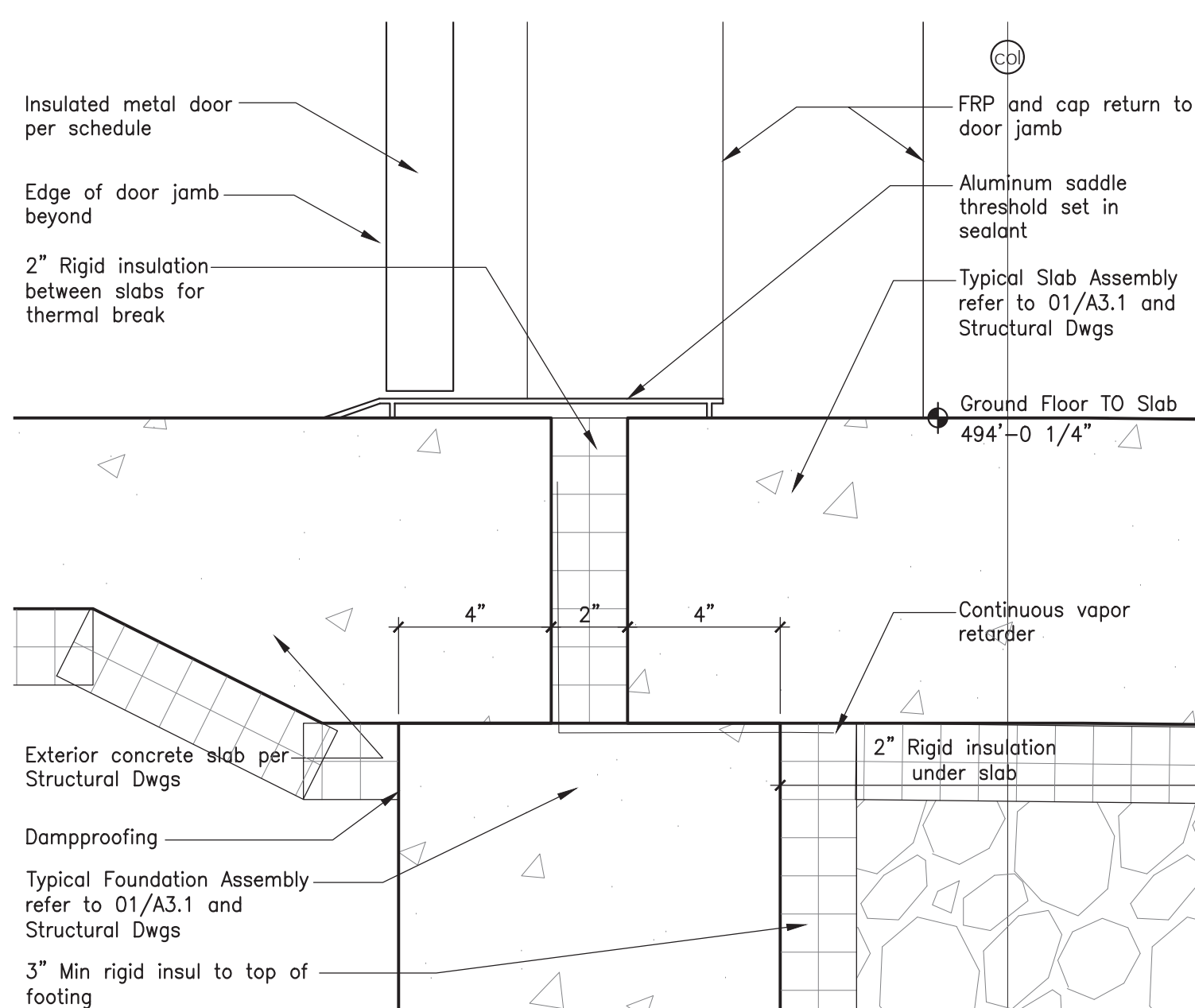
02 Section Detail @ TO Foundation - Base of Metal Wall Scale: 3" = 1'-0"



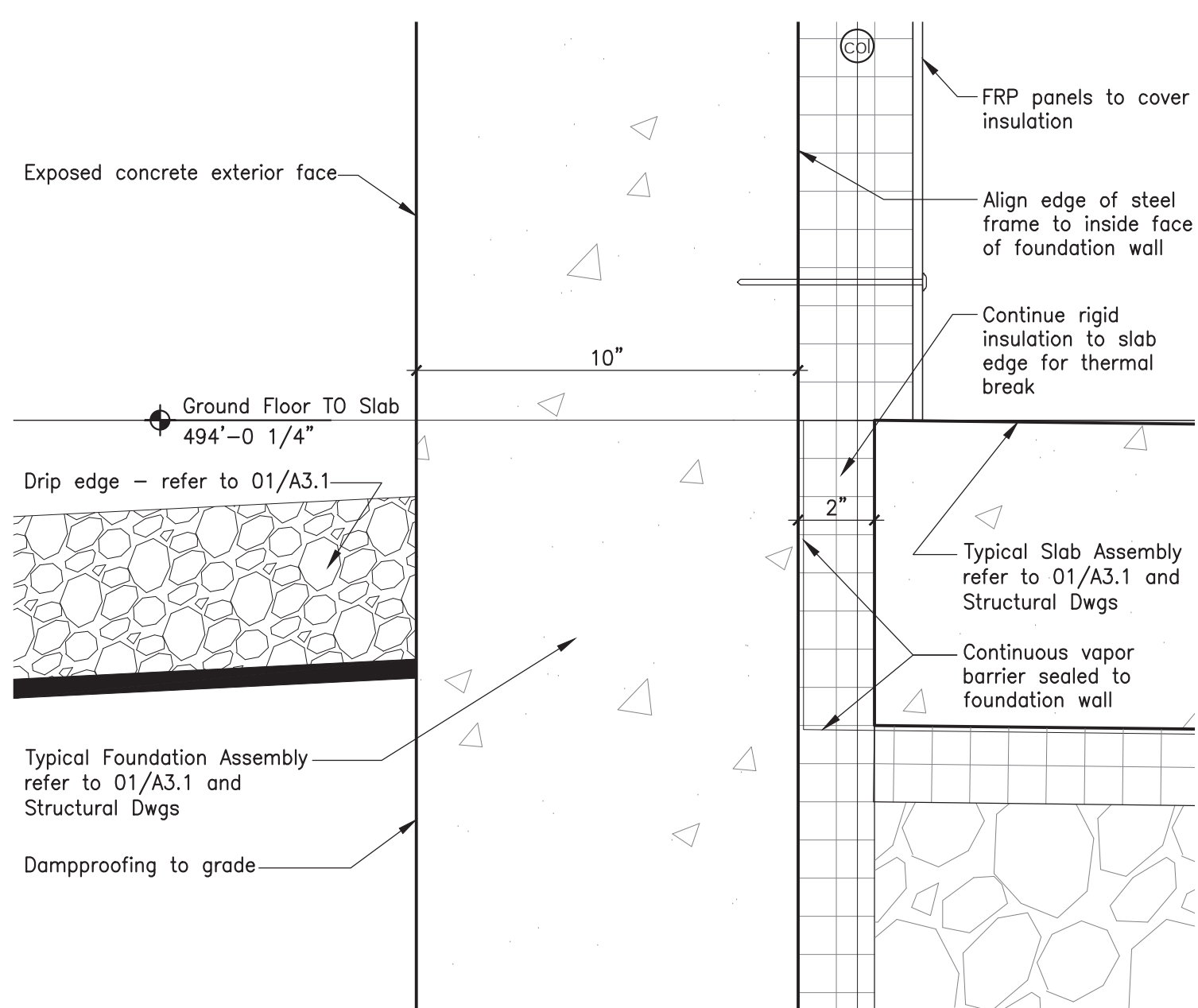
10 Section Detail @ Sectional Door Sill Scale: 3" = 1'-0"



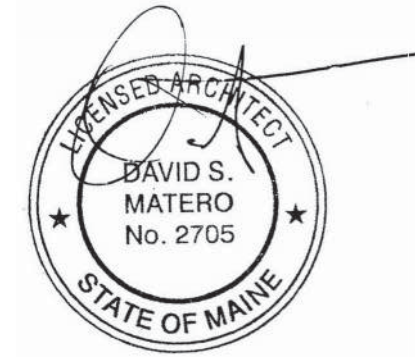
07 Section Detail @ Eave Scale: 3" = 1'-0"



04 Section Detail @ Door Sill Scale: 3" = 1'-0"



01 Section Detail @ Slab and Foundation Wall Scale: 3" = 1'-0"



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 ARCHITECTURE
 48 Corlies Street
 Bath, Maine 04530
 207.399.4278
 info@davidmatero.com

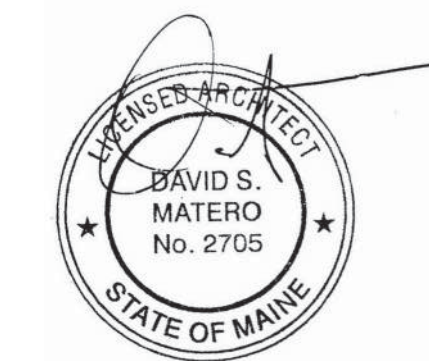


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				PE	NUMBER
			2020.01.28		DATE

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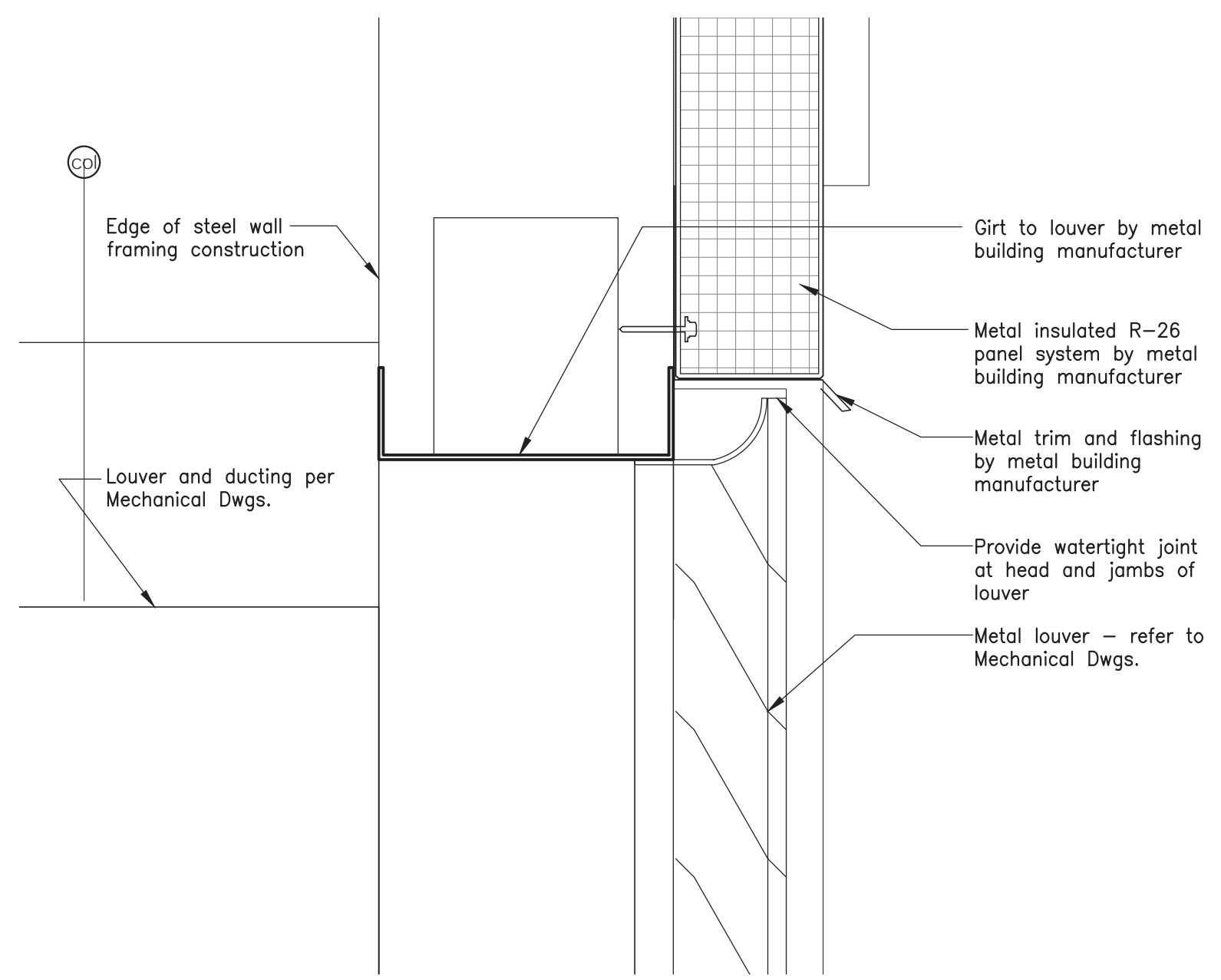


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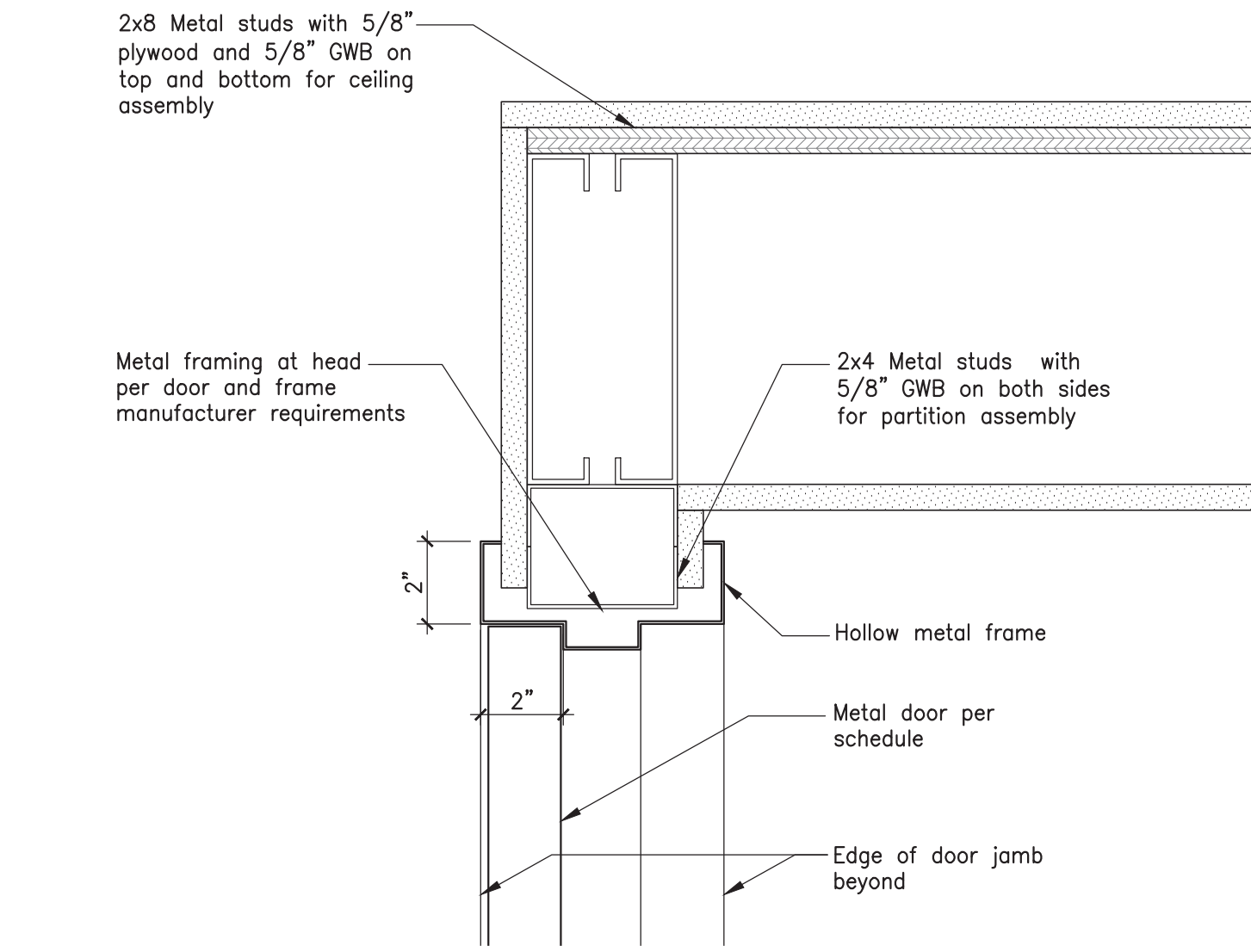
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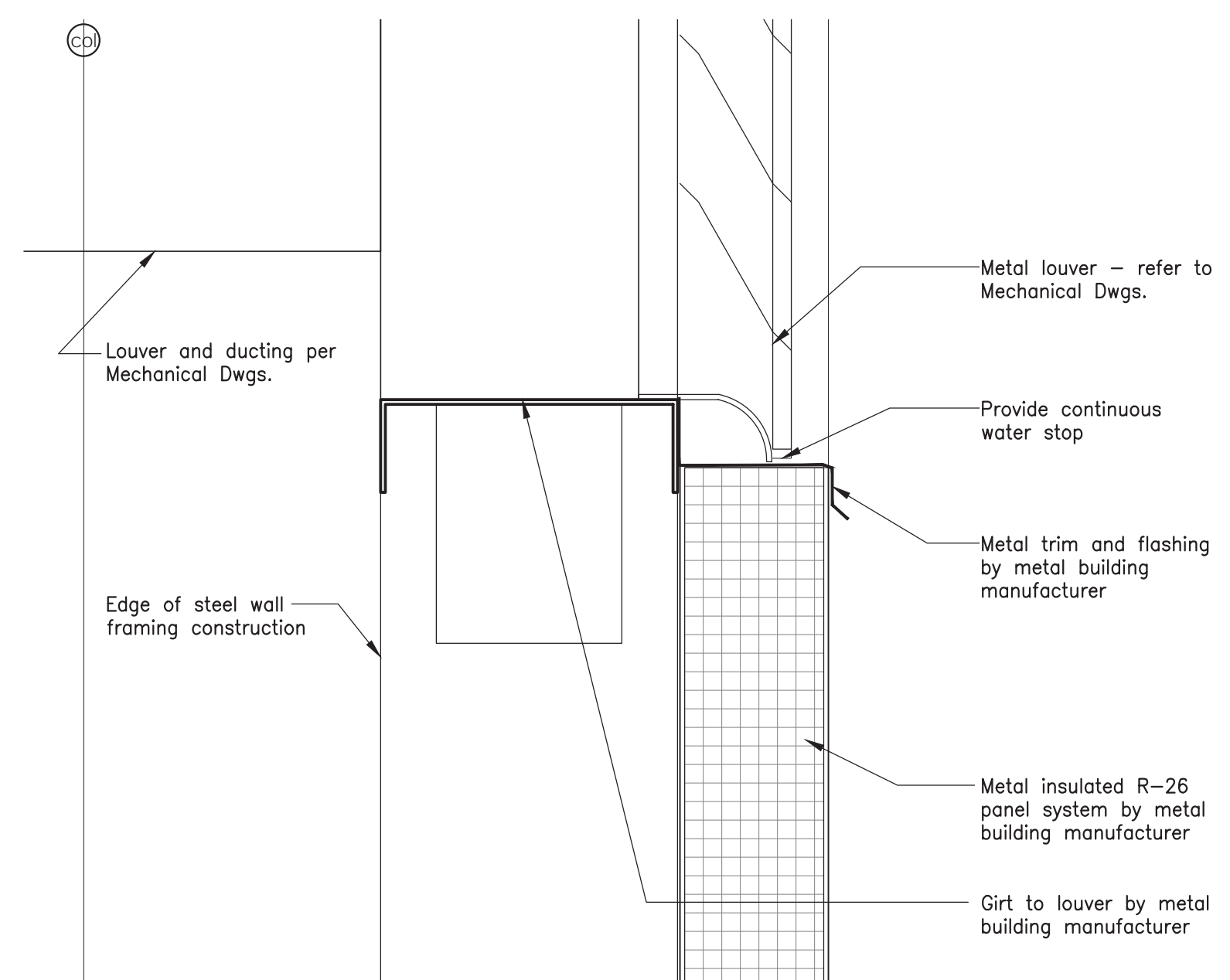
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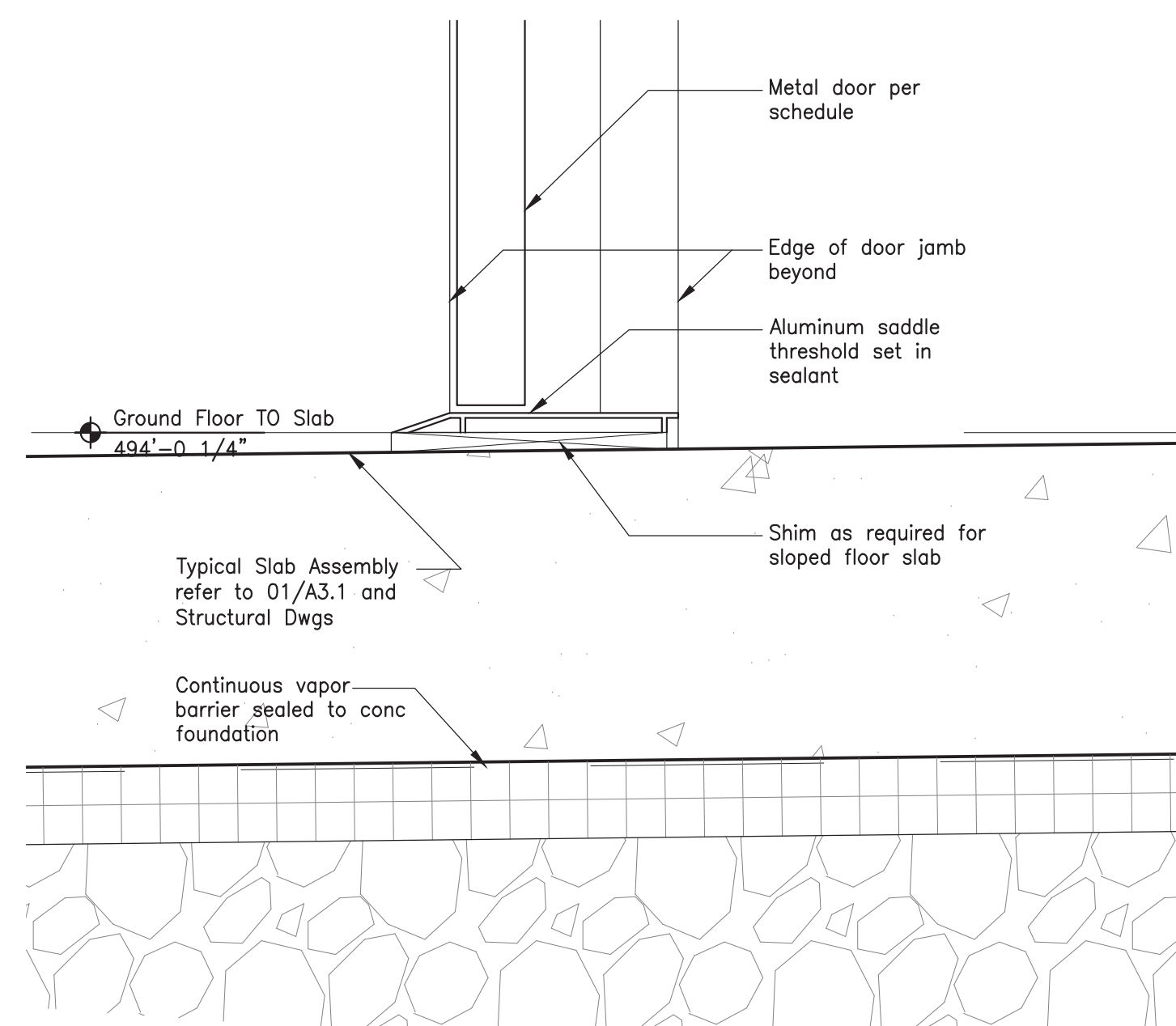
04 Section Detail @ Louver Head [Jamb Similar], Typical
 Scale: 3" = 1'-0"



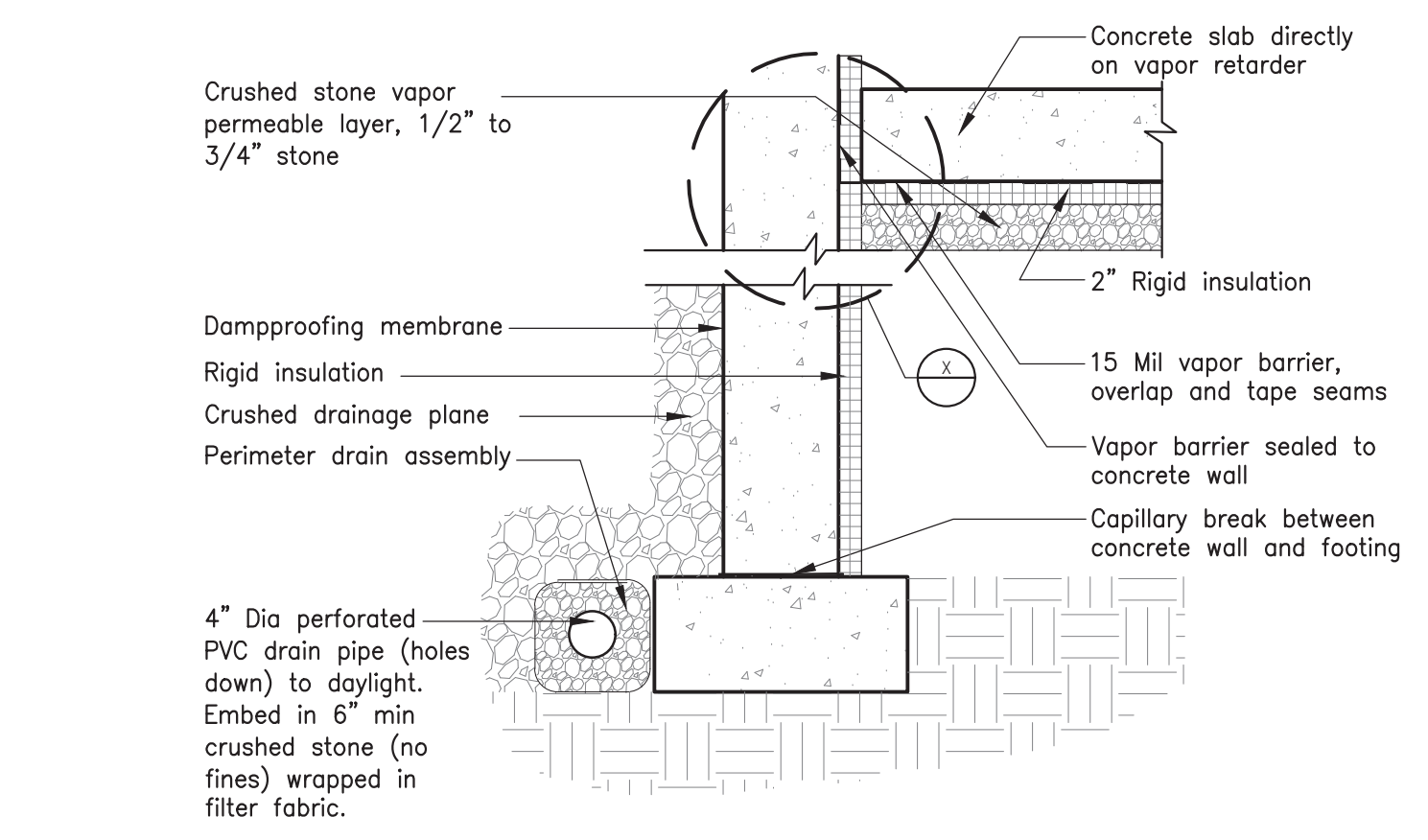
02 Section Detail @ Interior Door Head
 Scale: 3" = 1'-0"



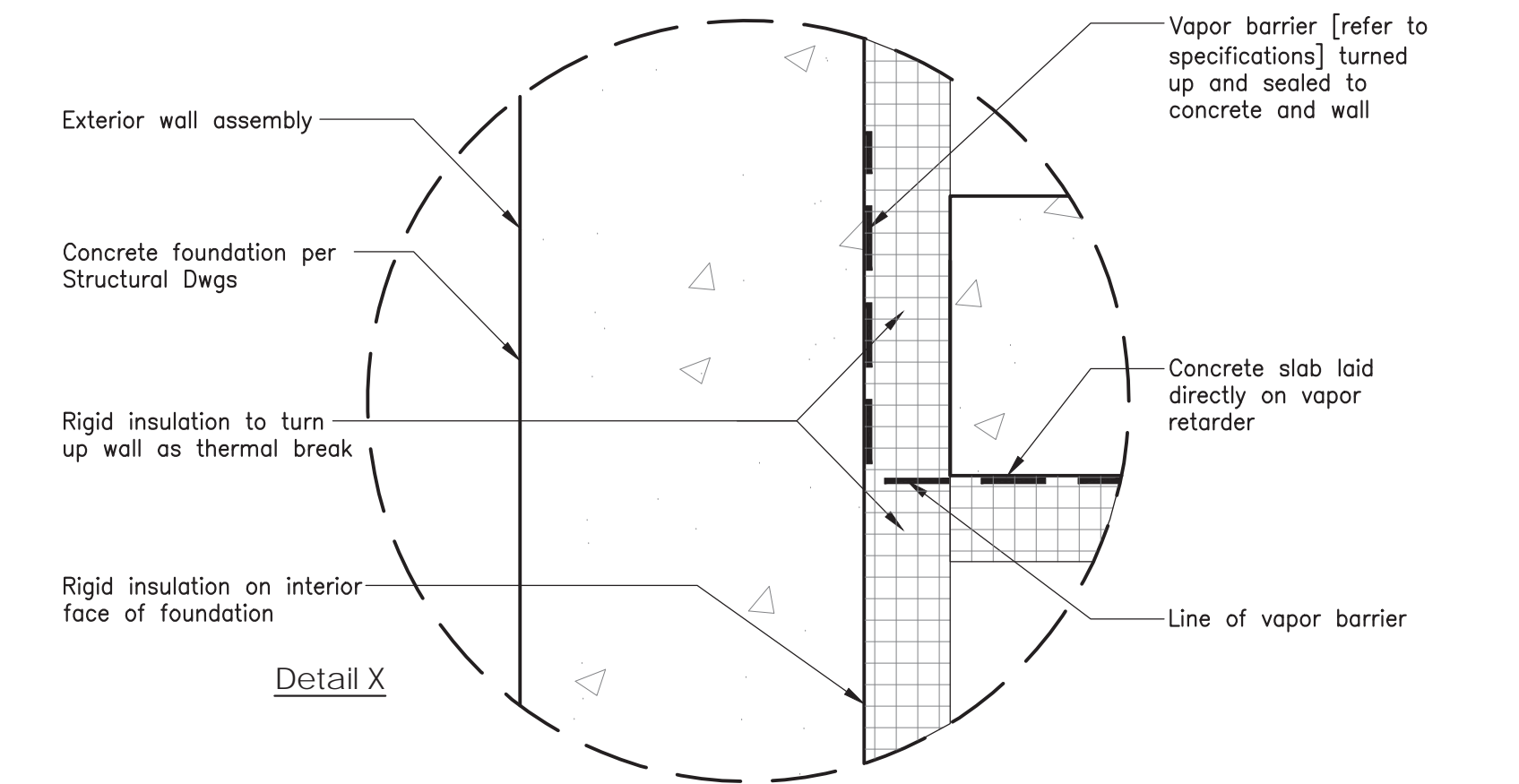
03 Section Detail @ Louver Sill, Typical
 Scale: 3" = 1'-0"



01 Section Detail @ Interior Door Sill
 Scale: 3" = 1'-0"



- General Notes**
1. Provide minimum 15 mil Vapor barrier. Overlap and tape seams per manufacturer's instructions.
 2. Concrete slab shall be poured directly on vapor retarder/barrier. Do not puncture vapor barrier.
 3. Vapor retarder/barrier shall be turned up concrete wall and taped/sealed to wall
 4. Refer to structural drawings for concrete and reinforcing bar information and specifications.



A Section Detail @ Vapor Barrier / Retarder of Slab & Foundation
 Scale: NTS

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Details
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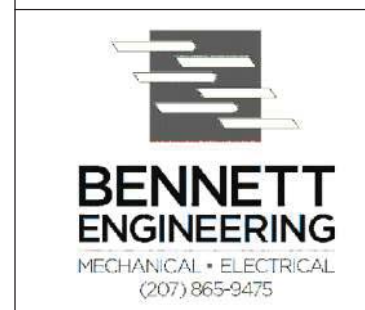
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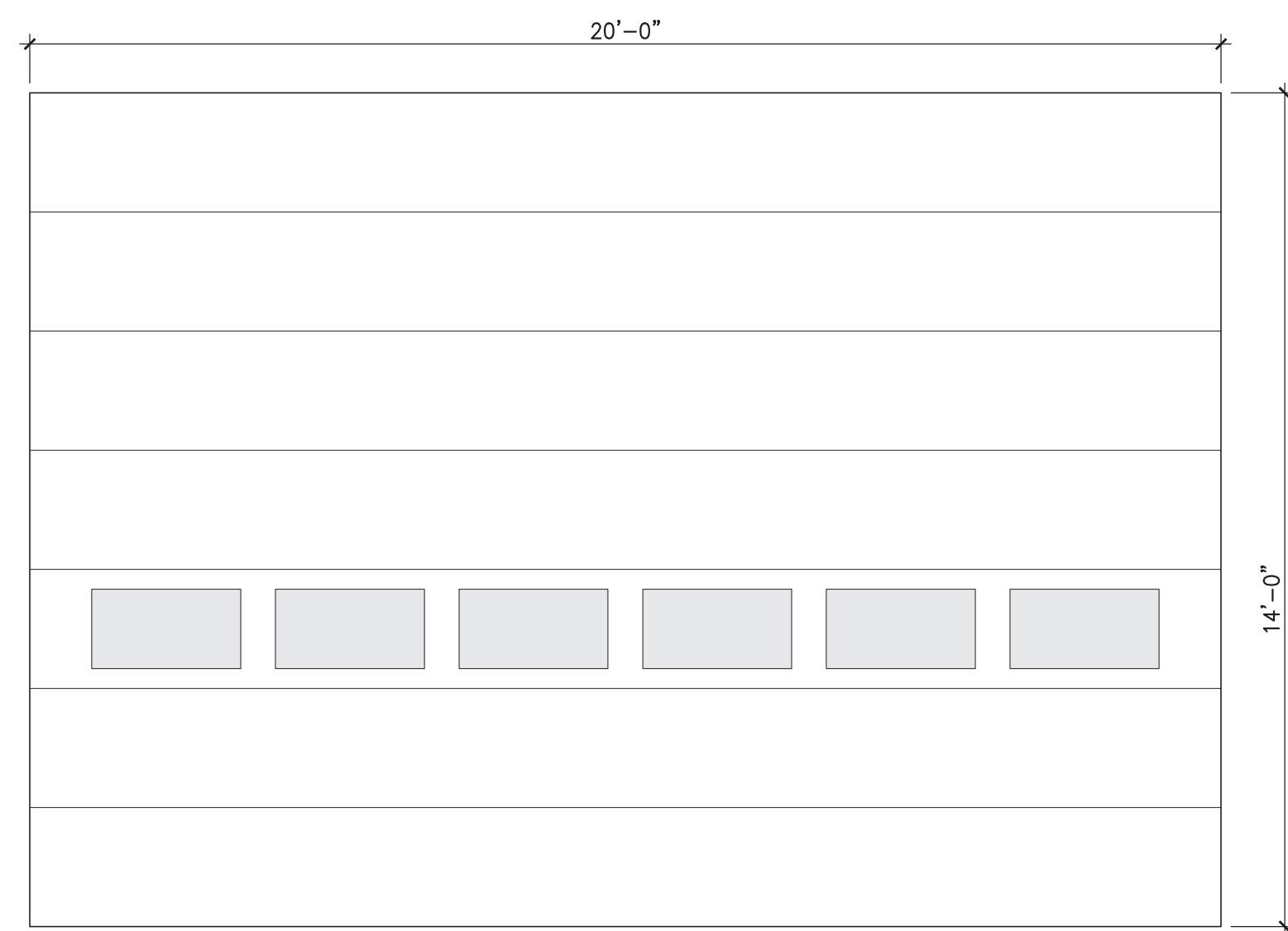
BY DATE
 DSM 03/06/20
 DSM 11/18/21

DESIGN-DETAILED CHECKED-REVIEWED
 REVISION 1 REVISION 2 REVISION 3
 FIELD CHANGES

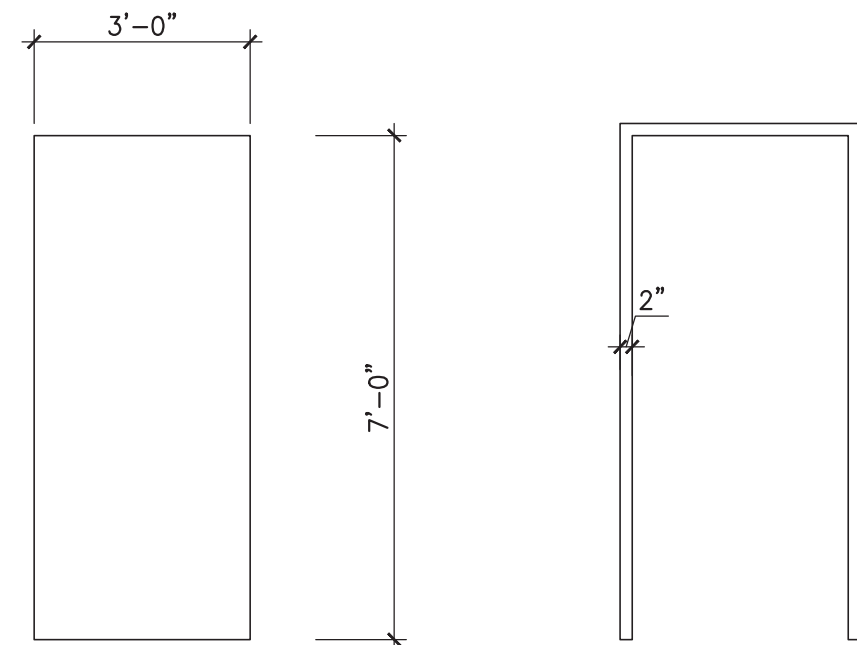
Door Schedule, Notes & Types
 Issued for Bid
 Scale: 3/8" = 1'-0"

Door Schedule, Notes & Types
 Issued for Bid
 Scale: 3/8" = 1'-0"

SHEET NUMBER
A9.1



(B)



(A)

(1)

02 Door Elevations

01 Door Frame Elev

DOOR AND FRAME NOTES

- All doors shall be located 4" off adjacent wall except where noted or dimensioned.
- All door thicknesses to be 1 3/4" unless noted otherwise.
- Provide minimum of 20 ga. double studs at all door jams.
- All floor material transitions shall occur under door in closed position.
- All door hardware shall meet ADA. Handles, pulls and latches shall be lever style. When sliding doors are fully opened (if specified), operating hardware shall be exposed and usable from both sides.
- Provide wall-mounted door stops at all door openings opening against adjacent wall or door. Provide solid wood blocking at all locations of wall mounted door stops.
- Provide floor mounted door stops at all doors where wall stops are not appropriate.

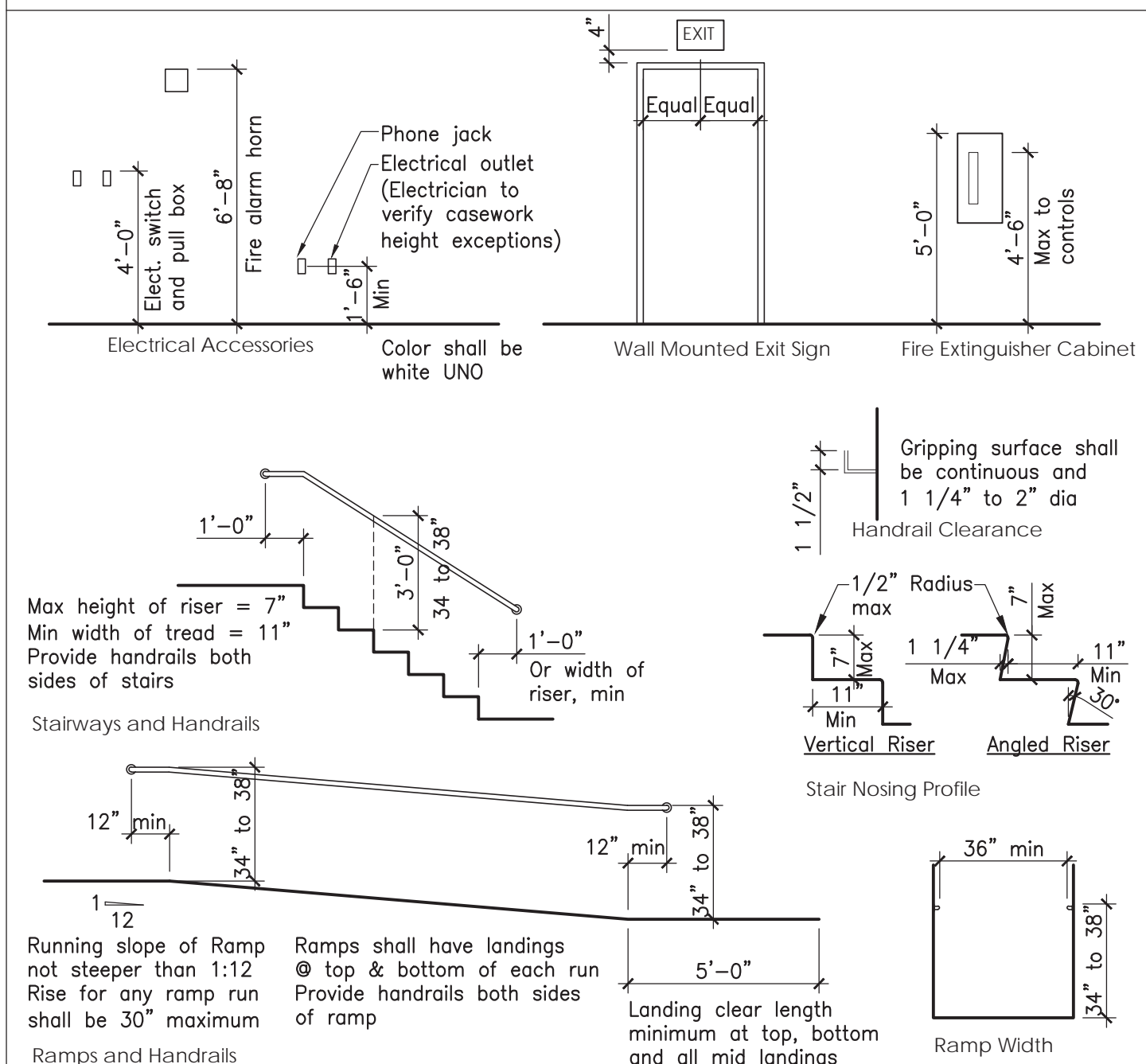
HARDWARE ABBREVIATIONS

BC	Ball Catch
DB	Dead Bolt
DP	Door Pull
EL	Entry Lock
MP	Multi-point French Door Lock
PD	Pocket Door HW
PL	Privacy Lock
PS	Passage Set
RC	Remote Control Opener
SC	Screen Door HW

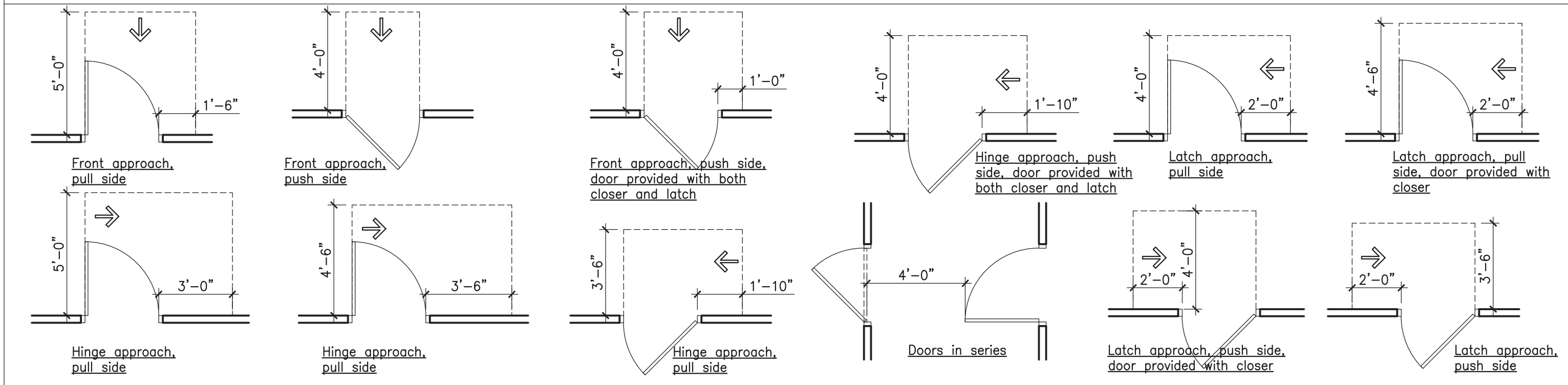
ABBREVIATIONS

AL	Aluminum
Clsr	Closer
Ex	Existing
HM	Hollow Metal
Hardware	Hardware
Insul	Insulated
Ob	Obscure Glass, Tempered
Pnt	Paint
Pre	Prefinished
Smoke	Smoke Seal Frame
Thick	Thickness
Wstrp	Weatherstripping
Wd	Wood
GL	Glazing
Mfr	Manufacturer

STANDARD HEIGHTS AND CLEARANCES / TYPICAL BARRIER FREE REQUIREMENTS



MANEUVERING CLEARANCES AT MANUAL SWINGING DOORS AND GATES



DOOR SCHEDULE

Door No.	Door							Frame			Hardware										Remarks				
	Width	Height	Thickness	Material	Type	Finish	Insulation	Material	Type	Head	Jamb	Sill	No. Set	Rating	Glazing	Closer	Exit Device	Key Pad	MHO	Wstrip		ADA Access	Tactile Warning	Sound Seal	
1-01	3'-0"	7'-0"	1 3/4"	Steel	A	Pre	Yes	HM	1	05/A4.1	06/A4.1	04/A4.1				Yes		Yes		Yes					
1-02	20'-0"	14'-0"	Per Mfr	Steel	B	Pre	Yes	Per Mfr	-	11/A4.1	12/A4.1	10/A4.1		Yes						Yes					Overhead per Manufacturer
1-03	20'-0"	14'-0"	Per Mfr	Steel	B	Pre	Yes	Per Mfr	-	11/A4.1	12/A4.1	10/A4.1		Yes						Yes					Overhead per Manufacturer
1-04	3'-0"	7'-0"	1 3/4"	Steel	A	Pre	Yes	HM	1	05/A4.1	06/A4.1	04/A4.1				Yes		Yes		Yes					Electrical closet double door
1-05	3'-0" (2)	7'-0"	1 3/4"	Steel	A	Pre		HM	1																

APPLICABLE CODES

International Building Code, 2015
 NFPA 101 Life Safety Code, 2015
 Uniform Plumbing Code 2015
 ASHRAE 90.1 - 2007 Energy Standards for Buildings except Low-Rise Residential
 ASHRAE 62.1 - 2007 Ventilation for Acceptable Indoor Air Quality
 2015 International Energy Conservation Code
 Plumbing, Mechanical and Electrical system are included and shall meet all applicable codes.

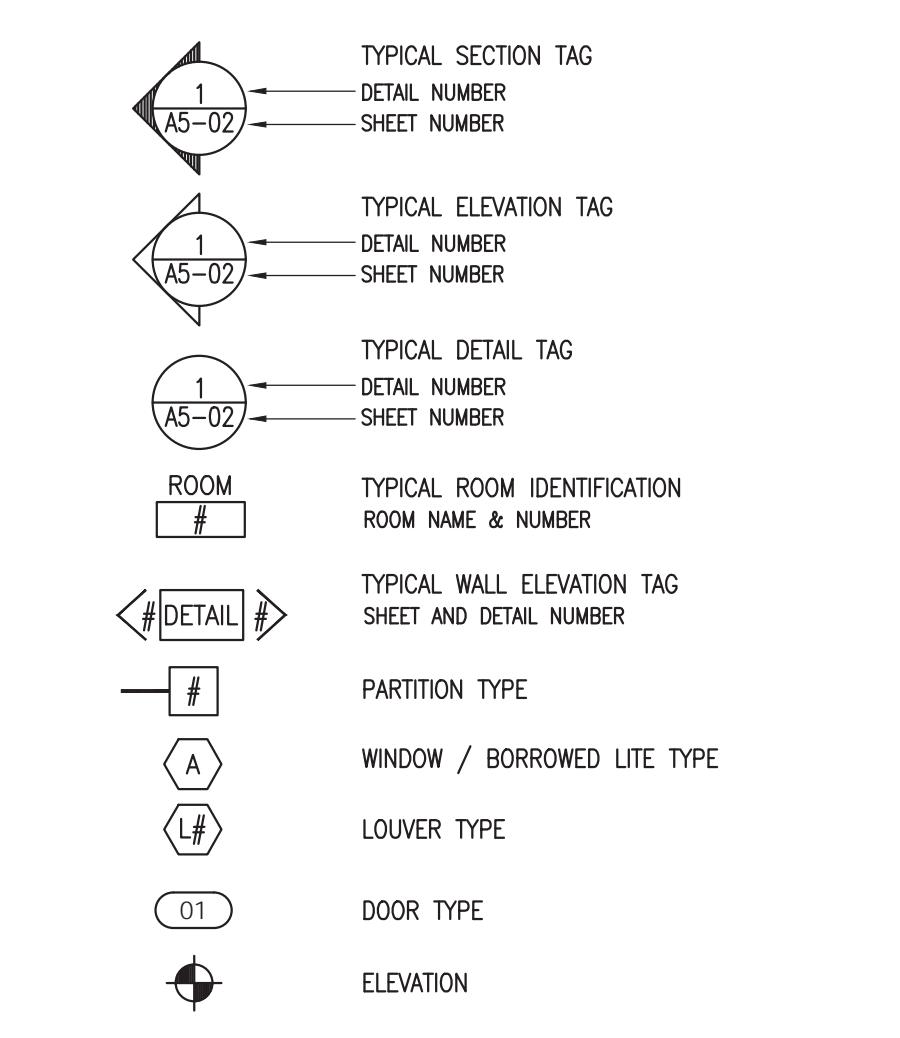
ABBREVIATIONS

Act	Acoustical Tile	Ga	Gauge	Prep	Preparation
AFF	Above Finished Floor	GC	General Contractor	PSF	Pounds per Square Foot
Alt	Alternate	GI	Glass	PSI	Pounds per Square Inch
Alum	Aluminum	GWB	Gypsum Wallboard	PT	Pressure Treated
AP	Access Panel	Gyp	Gypsum	QT	Quarry Tile
Arch	Architect	HD	High Density	R	Radius, Riser
BD	Board	HR	Hour	RD	Roof Drain
Bit	Bituminous	HC	Hollow Core	RD	Recreation
Bldg	Building	H, Hgt	Height	Rec	Rectangular
Blkg	Blocking	HM	Hollow Metal	Rect	Reference
BO	Bottom Of	Hor	Horizontal	Ref	Required
Btw	Between	Htg	Heating	Req	Revised, Revision
		HVAC	Heating/Ventilation/Air Conditioning	Rein	Reinforcing
CB	Cabinet	HW	Hot Water	Rev	Revised, Revision
CB	Catch Basin	Hyd	Hydrant	Rm	Room
CF	Cubic Feet			RO	Rough Opening
CJ	Control Joint			RWB	Rubber Wall Base
Clo	Closet	Incl	Include, Including	S	South
Clg	Ceiling	ID	Inside Diameter	San	Sanitary
CMU	Concrete Masonry Unit	In (")	Inch	SC	Solid Core
Co	Cleanout	Insul	Insulate, Insulating	SD	Storm Drain
Col	Column	Int	Interior	SF	Square Foot
Conc	Concrete	Inv	Invert	Sht	Sheet
Const	Construction	JC	Janitor's Closet	Sim	Similar
Cont	Continue, Continuous	Jt	Joint	Spec	Specification
Coord	Coordinate			STC	Sound Transmission Coefficient
CT	Ceramic Tile			Std	Standard
CUH	Cabinet Unit Heater	Lam	Laminated	Stl	Steel
CW	Cold Water	Lav	Lavatory	Sto	Storage
CY	Cubic Yard	LCC	Lead Coated Copper	Susp	Suspended
DAP	Dens Armor Plus Double	LF	Lead Foot		
Dbl	Double	Lin	Linear	Tr	Tread
DF	Drinking Fountain	Max	Maximum	Tel	Telephone
Dia	Diameter	Mech	Mechanical	Temp	Temperature, Tempered
Diag	Diagonal	Mfr	Manufacturer	T&G	Tongue and Groove
Dim	Dimension	MH	Manhole	Th	Thickness
Dn	Down	Misc	Miscellaneous	TO	Top Of
Dwg	Drawing	MO	Masonry Opening	TV	Television
		MR	Moisture Resistant	Typ	Typical
E	East	Mtd	Mounted	UL	Underwriters Laboratories
Ea	Each	Mtg	Mounting	UNO	Unless Noted Otherwise
EF	Exhaust Fan	Mtl	Metal	Util	Utility
EJ	Expansion Joint	N	North	VCT	Vinyl Composite Tile
Elev	Elevation	Net	Natural	Vent	Ventilation
Elec	Electrical	NIC	Not in Contract	Vert	Vertical
Eq	Equal	No	Number	Vest	Vestibule
Exam	Examination	NTS	Not to Scale	VWB	Vinyl Wall Base
Ex, Exist	Existing			W	West, Width
Exp	Expansion	OC	On Center	W/D	Washer / Dryer
Ext	Exterior	OD	Outside Diameter	WC	Water Closet
FAP	Fire Alarm Pull Station	Opp	Opposite Hand	Wd	Wood
FBO	Furnished by Owner	PI	Plate	W/O	Without
FCD	Floor Cleanout	PLAM	Plastic Laminate	W/M	Welded Wire Mesh
FD	Floor drain	Plywd	Plywood	XPS	Extruded Polystyrene
FDN	Foundation	Pnt	Paint		
FEC	Fire Extinguisher Cabinet	Poly	Polyethylene		
Fin	Finish	Pre	Pre-finished		
Flr	Floor				
Fl (")	Foot				
Ftg	Footing				

GENERAL NOTES

- All work included in these drawings and specifications shall conform to all state, national, and other codes and ordinances.
- The General Contractor shall be responsible for obtaining building permits and for payment of all fees and hook-ups.
- General contractor shall verify all dimensions and report any discrepancies to the architect before proceeding with work. Do not scale drawings, work from dimensions only.
- The General Contractor shall obtain approval from the owner for staging areas and hours of allowable work times.
- Provide appropriate reinforcing within partitions for support of all grab bars, shelving brackets, cabinets, door frames, water coolers, cubbies, fire extinguishers, lighting, and other wall mounted equipment or appliances indicated in documents.
- General Contractor shall maintain a safe egress way throughout construction that is clearly identified.
- All doors shall be located a minimum of 4" (wall to frame) off adjoining stud walls, except where noted or dimensioned otherwise.
- All exposed pipes and conduits shall be painted, color to be chosen by Architect.
- All exposed structure shall be painted, color to be chosen by Architect.
- All gypsum wall board within 3'-0" of plumbing fixtures shall be moisture resistant.
- Before penetrating or otherwise modifying joists, beams, or other structural members, consult with the Architect on maximum size and location of penetrations.
- Provide double studs at all door frames over 3'-0" wide.
- All materials in this building shall be new and not previously used UNO.
- All penetrations through rated walls and floor/ceiling assemblies shall be firestopped by specific subcontractor requiring penetration.
- All exits shall be kept readily accessible and unobstructed at all times.
- Location of every exit shall be clearly indicated by exit signs placed, if required, at an angle with the exit opening. Install directional signs to serve as guides form all portions of the corridor or floor.
- Dimensions are to the face of framing, studs, structural grid lines and/or foundations UNO.
- General Contractor shall properly dispose of all demolished assemblies shall be firestopped by specific subcontractor to conserve and recycle materials.
- General Contractor shall install blocking in walls for cabinetry, shelving, handrails, mirror and accessories.
- Provide a continuous bead and sealant in all joints in the building envelope and penetrations that may allow for passage of moisture or vapor gas through structure.
- Guarantee: All materials and work shall be guaranteed for a minimum of one year from the date of final payment.

LEGEND SYMBOLS



GENERAL NOTES

THE FOLLOWING BUILDING CODES AND STANDARDS SHALL BE REFERENCED DURING CONSTRUCTION:

IBC 2009	EDITION OF THE IBC INTERNATIONAL BUILDING CODE
ASCE 7	AMERICAN SOCIETY OF CIVIL ENGINEERS, MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
ACI 301	AMERICAN CONCRETE INSTITUTE SPECIFICATION FOR STRUCTURAL CONCRETE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ACI 318	AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS
NDS	NATIONAL DESIGN SPECIFICATIONS FOR WOOD CONSTRUCTION BY NATIONAL FOREST PRODUCTS ASSOCIATION, 2005.

REFERENCE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. REFERENCE ARCHITECTURAL PLANS FOR SIZES AND LOCATIONS OF WALL. IN THE EVENT OF A CONFLICT BETWEEN THE DRAWINGS, SPECIFICATIONS, OR NOTES ON THE DRAWINGS, THE DEPARTMENT SHALL BE NOTIFIED PRIOR TO CONSTRUCTION.

EXISTING DIMENSIONS AND CONDITIONS ARE FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ALL EXISTING CONSTRUCTION AND DIMENSIONS IN THE FIELD PRIOR TO CONSTRUCTION OR FABRICATION. ALL DISCREPANCIES SHALL BE REPORTED TO THE DEPARTMENT PRIOR TO COMMENCING WORK.

THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF DEVIATIONS OR CHANGES ARE REQUIRED TO THE CONTRACT DOCUMENTS OR APPROVED SHOP DRAWINGS DUE TO INTERFERENCES, FABRICATION ERRORS, OR OTHER CAUSES.

THE STRUCTURE IS SELF-SUPPORTING AND STABLE AFTER THE ENTIRE BUILDING IS COMPLETELY CONSTRUCTED. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ERECTION PROCEDURES AND SEQUENCING DURING CONSTRUCTION AND ERECTION TO PROVIDE AND ENSURE LOCAL AND OVERALL STABILITY OF THE BUILDING AND ITS COMPONENTS DURING CONSTRUCTION AND ERECTION. THE CONTRACTOR SHALL RETAIN A LICENSED STRUCTURAL ENGINEER TO DESIGN TEMPORARY BRACING/SHORING AND DETERMINE WHERE THE TEMPORARY BRACING/SHORING IS NEEDED.

FOUNDATION NOTES

SUBGRADE PREPARATION AND DETERMINATION (INCLUDING ALLOWABLE BEARING PRESSURE, STRUCTURAL FILL GRADATION REQUIREMENTS, COMPACTION REQUIREMENTS AND POST-CONSTRUCTION SETTLEMENT ANALYSIS) BENEATH FOOTINGS AND SLABS-ON-GRADE AND BEHIND FOUNDATION WALLS SHALL BE PROVIDED BY THE DEPARTMENT. ALL FILL USED TO SUPPORT FOUNDATIONS AND SLABS-ON-GRADE SHALL CONSIST OF WELL-GRADED 1" CRUSHED GRAVEL. STRUCTURAL SLABS SHALL BE CONSTRUCTED ON A MINIMUM 12" THICK LAYER OF STRUCTURAL FILL SOIL WITH PROPERTIES PER THE DEPARTMENT.

PRESUMED ALLOWABLE SOIL BEARING PRESSURE USED IN DESIGN = 2,000 PSF. BEARING CAPACITIES SHALL BE VERIFIED BY THE DEPARTMENT. MINIMUM FROST DEPTH COVER = 4'-0" FOR EXTERIOR FOOTINGS BELOW FINAL EXTERIOR GRADE. CONTRACTOR SHALL NOTIFY THE DEPARTMENT OF ANY DISCREPANCIES.

FOUNDATIONS SHALL BEAR ON UNDISTURBED NATIVE SOIL, UNLESS NOTED OTHERWISE. BEARING ELEVATIONS SHALL BE LOWERED WHERE SUITABLE SOILS ARE NOT ENCOUNTERED. WHERE OVEREXCAVATION HAS OCCURRED, CONTRACTOR MAY PLACE LEAN CONCRETE ON TOP OF NATIVE SOIL. THE CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF ANY UNSUITABLE SOILS ARE ENCOUNTERED PRIOR TO PLACING FOUNDATIONS.

FOUNDATION WALLS SHALL BE BACKFILLED SIMULTANEOUSLY ON BOTH SIDES OF THE WALL. FOUNDATION WALLS AND SLAB-ON-GRADES SHALL REACH THEIR FULL 28 DAY COMPRESSIVE STRENGTH PRIOR TO BACKFILLING. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING/BRACING FOR WALLS WHEN BACKFILL IS PLACED PRIOR TO CONCRETE ACHIEVING ITS FULL 28 DAY STRENGTH. BACKFILL FOR FOUNDATION WALLS IS BASED ON DRAINED CONDITIONS. SEE ARCHITECTURAL, CIVIL, AND MECHANICAL DRAWINGS FOR FOUNDATION DRAINAGE SYSTEM.

PROTECT FOUNDATIONS FROM FROST AND KEEP BOTTOM OF TRENCH DRY DURING CONSTRUCTION. IF GROUNDWATER IS ENCOUNTERED NEAR OR ABOVE THE BASE OF THE FOOTINGS, EXCAVATIONS SHALL BE DEWATERED DURING CONSTRUCTION. SURFACE WATER SHALL BE DIVERTED AWAY FROM EXCAVATIONS.

CONTRACTOR SHALL BE RESPONSIBLE FOR THE SHORING AND BRACING OF EXISTING STRUCTURES DURING EXCAVATION, BACKFILLING, AND CONSTRUCTION. CONTRACTOR SHALL SLOPE EXCAVATIONS TO ACHIEVE SOIL STABILITY.

CONCRETE REINFORCING NOTES

USE DEFORMED BILLET-STEEL REINFORCING BARS, GRADE 60, IN CONFORMANCE WITH ASTM A615. REINFORCEMENT SHALL BE ACCURATELY PLACED AND SUPPORTED PRIOR TO CONCRETE PLACEMENT, AND SHALL BE SECURED AGAINST DISPLACEMENT.

THE CONTRACTOR SHALL SUBMIT REINFORCING SHOP DRAWINGS TO THE DEPARTMENT FOR REVIEW AND ACCEPTANCE PRIOR TO COMMENCING FABRICATION. REINFORCEMENT SHALL BE DETAILED IN ACCORDANCE WITH ACI "MANUAL OF STANDARD PRACTICE FOR DETAILING OF REINFORCED CONCRETE STRUCTURES". SHOP DRAWINGS SHALL SHOW REINFORCING STEEL PLACEMENT DETAILS AND SECTIONS.

MINIMUM CONCRETE COVER FOR REINFORCEMENT	
CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 INCHES
CONCRETE EXPOSED TO EARTH OR WEATHER	2 INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN SLABS AND WALLS (FOR PRIMARY REINFORCEMENT, TIES, AND STIRRUPS)	1½ INCHES
CONCRETE NOT EXPOSED TO EARTH OR WEATHER IN COLUMNS AND BEAMS	1½ INCHES

CONTINUOUS REINFORCEMENT SHALL BE TENSION LAP SPLICED PER LAP SPLICE LENGTH TABLE, U.N.O.

LAP SPLICE LENGTH TABLE								
BAR SIZE	#3	#4	#5	#6	#7	#8	#9	
MIN LAP SPLICE (INCHES)	18	24	30	36	48	64	81	

REINFORCEMENT HOOKS SHALL CONFORM TO STANDARD HOOKS ACCORDING TO ACI 318. WELDING OF REINFORCEMENT IS NOT PERMITTED, U.N.O.

CONCRETE NOTES

ALL CONCRETE WORK, INCLUDING MATERIAL SELECTION, ADMIXTURES, MIXING, AND PLACEMENT OF CONCRETE SHALL BE IN CONFORMANCE WITH APPLICABLE BUILDING CODES. IN ADDITION, REFERENCE THE FOLLOWING CONCRETE STANDARDS AND SPECIFICATIONS:

ACI 318 AMERICAN CONCRETE INSTITUTE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE
ACI 301 AMERICAN CONCRETE INSTITUTE SPECIFICATIONS FOR STRUCTURAL CONCRETE
ACI 308 STANDARD PRACTICE FOR CURING CONCRETE

REQUIRED CONCRETE PARAMETERS ARE AS FOLLOWS:

LOCATION	MAX W/C RATIO	f _c	AIR-ENTRAINMENT
FOUNDATIONS, FOOTINGS, & FOUNDATION WALLS	.52	4,350 PSI	5% - 7%
INT. SLAB-ON-GRADE	.47	4,350 PSI	1% - 4%
EXT. SLAB-ON-GRADE	.45	4,350 PSI	5% - 7%

WHERE: W/C = WATER TO CEMENT RATIO AND
f_c = COMPRESSIVE STRENGTH OF CONCRETE AT 28 DAYS

MAXIMUM AGGREGATE SIZE SHALL BE ¾", IN CONFORMANCE WITH ASTM C33. USE PORTLAND CEMENT TYPE II, IN CONFORMANCE WITH ASTM 150. AIR ENTRAINING ADMIXTURES SHALL CONFORM TO ASTM C 260. ADMIXTURES SHALL CONFORM TO "SPECIFICATION FOR CHEMICAL ADMIXTURES FOR CONCRETE" ASTM C 494. FLY ASH USED AS ADMIXTURES SHALL CONFORM TO ASTM C 618. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE IS NOT PERMITTED.

MAXIMUM SLUMP BEFORE THE ADDITION OF A WATER-REDUCING ADMIXTURE IS 6 INCHES.

CONCRETE EXPOSED TO FREEZING AND THAWING, INCLUDING FOUNDATIONS, FOOTINGS, FOUNDATION WALLS, AND INTERIOR SLABS SHALL BE AIR ENTRAINED WITH AIR CONTENT BETWEEN 5% AND 6%. CONTRACTOR SHALL NOT PLACE CONCRETE ON FROZEN GROUND OR IN WATER. ADEQUATE EQUIPMENT SHALL BE PROVIDED FOR HEATING CONCRETE MATERIALS AND PROTECTING CONCRETE DURING NEAR-FREEZING OR FREEZING WEATHER. REFERENCE SECTION 502.08 COLD WEATHER CONCRETE OF "STATE OF MAINE, DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS, REVISION OF NOVEMBER 2014", FOR RECOMMENDATIONS FOR COLD WEATHER CONCRETING.

CONTRACTOR SHALL SUBMIT PROPOSED CONCRETE MIX DESIGN AND LABORATORY TESTS OF FABRICATED CYLINDERS VERIFYING CONCRETE STRENGTH OR PERFORMANCE HISTORY OF MIX TO THE DEPARTMENT FOR ACCEPTANCE PRIOR TO PLACEMENT OF CONCRETE. CONCRETE USED ON SITE SHALL BE FIELD TESTED BY THE DEPARTMENT. FIELD TESTING INFORMATION SHALL INDICATE SLUMP, AIR CONTENT, AND TEMPERATURE. COMPRESSION TEST 1 CYLINDER AT 7 DAYS AND 2 AT 28 DAYS. HOLD AN ADDITIONAL CYLINDER FOR A 56 DAY BREAK, IF NECESSARY. PROVIDE A SET OF 4 CYLINDERS FOR EACH PLACEMENT AND PER 50 CUBIC YARDS OF CONCRETE PLACED. THE DEPARTMENT SHALL PROVIDE ALL CONCRETE TESTING.

CONSTRUCTION JOINTS IN WALLS ARE NOT PERMITTED.

ANCHOR BOLTS SHALL CONFORM TO ASTM F1554. ANCHOR BOLTS SHALL HAVE HEAVY HEX NUTS AND LOCK WASHERS.

ABBREVIATIONS

AB	ANCHOR BOLT	L	ANGLE
ADDL	ADDITIONAL	LL	DOUBLE ANGLE
ARCH	ARCHITECT	LB	POUND
&	AND	LF	LINEAR FOOT
B/FTG, BOF	BOTTOM OF FOOTING	LLH	LONG LEG HORIZONTAL
BLOG	BUILDING	LLV	LONG LEG VERTICAL
BM	BEAM	MAX	MAXIMUM
BOT	BOTTOM	MECH	MECHANICAL
BRG	BEARING	MFR	MANUFACTURER
BTWN	BETWEEN	MIN	MINIMUM
		MISC	MISCELLANEOUS
C	STRUCTURAL STEEL CHANNEL	NF	NEAR FACE
CANT	CANTILEVER	NO	NUMBER
CP	CAST-IN-PLACE CONCRETE	NS	NEAR SIDE
CJ	CONTROL JOINT	NTS	NOT TO SCALE
CLR	CLEAR		
CL	CENTERLINE	OC	ON CENTER
CMU	CONCRETE MASONRY UNIT	OF	OUTSIDE FACE
CNJ	CONSTRUCTION JOINT	OPNG	OPENING
COL	COLUMN	OPP	OPPOSITE
CONC	CONCRETE		
CONN	CONNECTION	P	PIER DESIGNATION
CONT	CONTINUOUS	PL	PLATE
CONTR	CONTRACTOR	PP	PARTIAL PENETRATION WELD
CP	COMPLETE PENETRATION WELD	PREFAB	PREFABRICATED
CY	CUBIC YARD	PSF	POUNDS PER SQUARE FOOT
		PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	REINF	REINFORCING STEEL
DM	DIMENSION	REQ, REQD	REQUIRED
DISCONT	DISCONTINUOUS	RD	ROOF DRAIN
DWG	DRAWING		
(E), EX, EXIST	EXISTING	SC	SLIP CRITICAL
EA	EACH	SECT	SECTION
EF	EACH FACE	SHEATH	SHEATHING
EL, ELEV	ELEVATION	SIM	SIMILAR
EQ	EQUAL	SOG	SLAB-ON-GRADE
EQUIP	EQUIPMENT	SPAC	SPACING
ES	EACH SIDE	SPECS	SPECIFICATIONS
EXP	EACH WAY	SS	STAINLESS STEEL
EXT	EXPANSION	STD	STANDARD
	EXTERIOR	STIFF	STIFFENER
		STL	STEEL
F	FOOTING DESIGNATION	STR	STRAIGHT
FDN	FOUNDATION	STRUCT	STRUCTURAL
FF	FINISH FLOOR		
FLG	FLANGE	T	TOP
FLR	FLOOR	T&B	TOP AND BOTTOM
FT	FOOT	TOC, T/CONC	TOP OF CONCRETE
FTG	FOOTING	T/FTG, TOP	TOP OF FOOTING
FV	FIELD VERIFY	TEMP	TEMPERATURE
		T/SHELF	TOP OF SHELF
G	GAGE	T/SLAB	TOP OF SLAB
GALV	GALVANIZED	T/STL	TOP OF STEEL
		T/WALL	TOP OF WALL
HOR, HORIZ	HORIZONTAL	TS	STRUCTURAL TUBING
HSS	HOLLOW STRUCTURAL SHAPE	TYP	TYPICAL
HT	HEIGHT		
		UNO	UNLESS NOTED OTHERWISE
IF	INSIDE FACE	VER, VERT	VERTICAL
IN	INCH	VF	VERIFY IN FIELD
INFO	INFORMATION		
JOINT	JOINT	W	STRUCTURAL STEEL WIDE FLANGE
		w/	WITH
K	KIP (1 KIP = 1,000 LBS)	w/O	WITHOUT
KSI	KIPS PER SQUARE INCH	WP	WORK POINT
		WT	WEIGHT
		WWF	WELDED WIRE FABRIC

LEGEND

SLOPE DESIGNATION		UNDISTURBED EARTH	
ELEVATION MARK		LEDGE	
ROOF PITCH		COMPACTED STRUCTURAL FILL	
SPAN DIRECTION		CONCRETE	
SECTION MARK		GROUT	
		BRICK	
		CMU	

STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Ordway Drive, Sherman, Maine
WIN 02524000



David Matero
Architecture
4 Centre Street
Bath, Maine 04530
207.349.4278
info@davidmatero.com

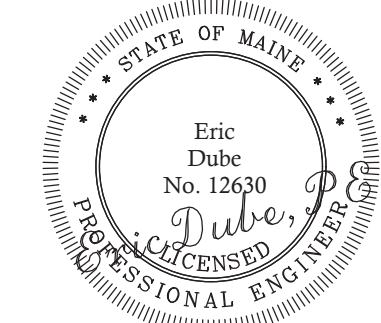


DATE	BY	ME-	PE NUMBER	DATE

DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

MDOT SHERMAN
STRUCTURAL NOTES

SHEET NUMBER
S1.0





STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Ordway Drive, Sherman, Maine
 WIN 025240.00



David Matero
 Architecture
 49 Centre Street
 Bath, Maine 04530
 207.349.4718
 info@davidmatero.com



DATE	ME.	PE NUMBER	DATE

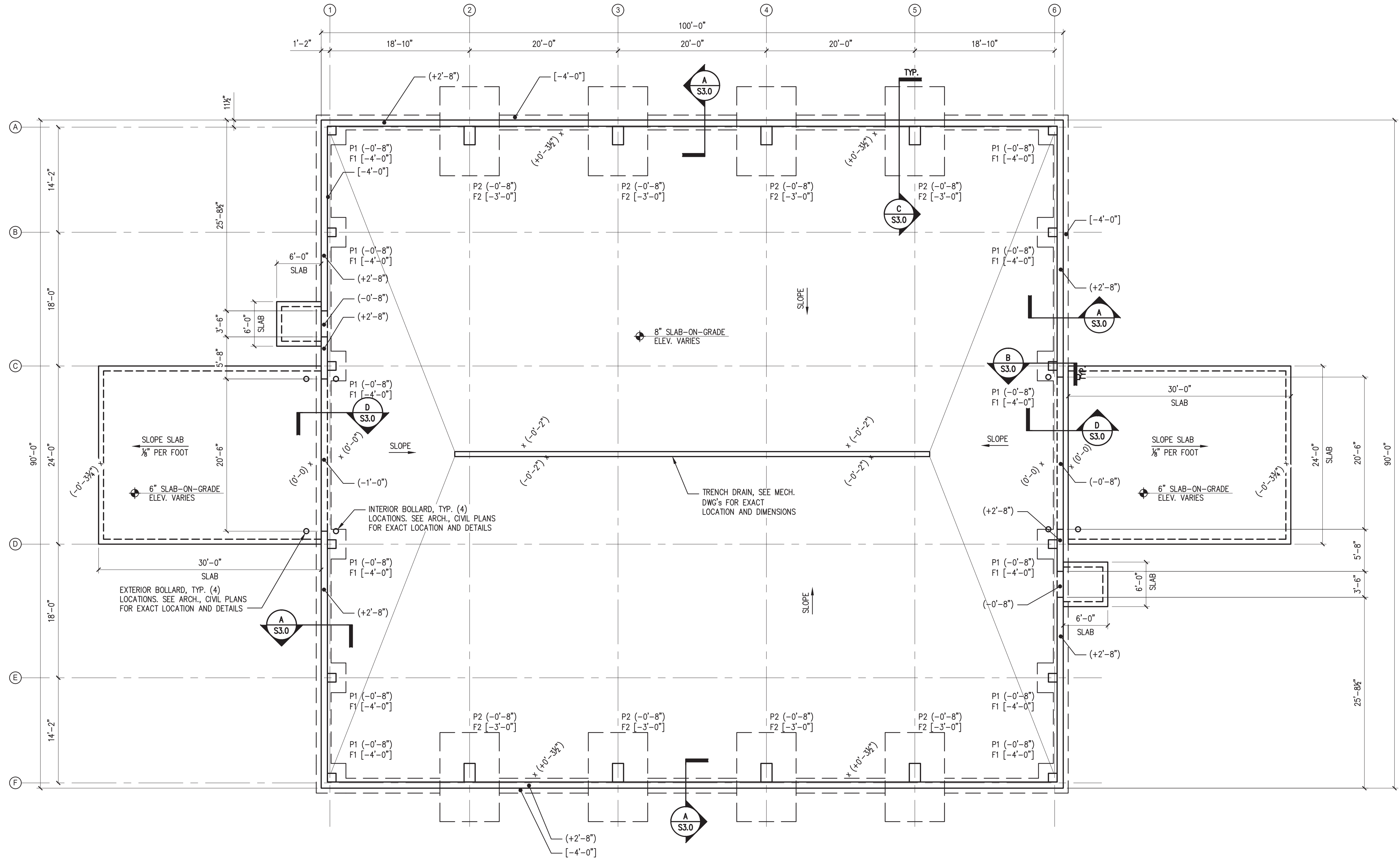
BY	DATE

DESIGN/DETAILED	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

MDOT SHERMAN
 FOUNDATION PLAN

SHEET NUMBER

S2.0



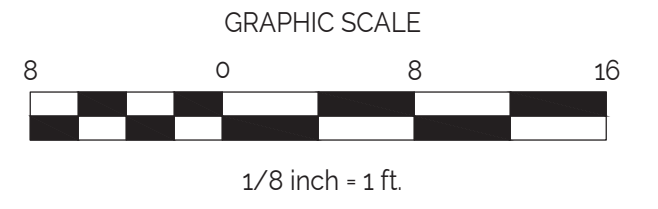
NOTE: FINAL PIER LAYOUT, DIMENSIONS, AND FOOTINGS TO BE COORDINATED AND ADJUSTED WITH FINAL PRE-ENGINEERED METAL BUILDING LOADS AND DIMENSIONS

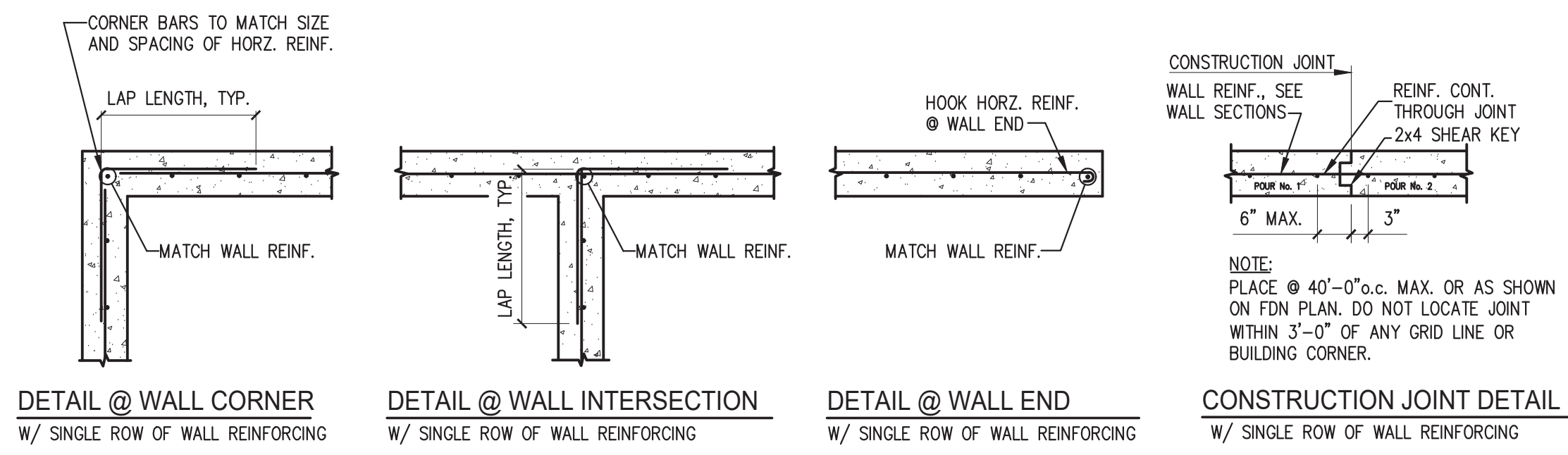
TYPE	LENGTH	WIDTH	DEPTH	REINFORCING
F1	4'-0"	4'-0"	1'-0"	(5)-#6's BOTT, EW
F2	12'-0"	8'-0"	2'-0"	#6 @ 10" o.c. E.W., TOP #6 @ 12" o.c. E.W., BOTT.

FOUNDATION PLAN

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

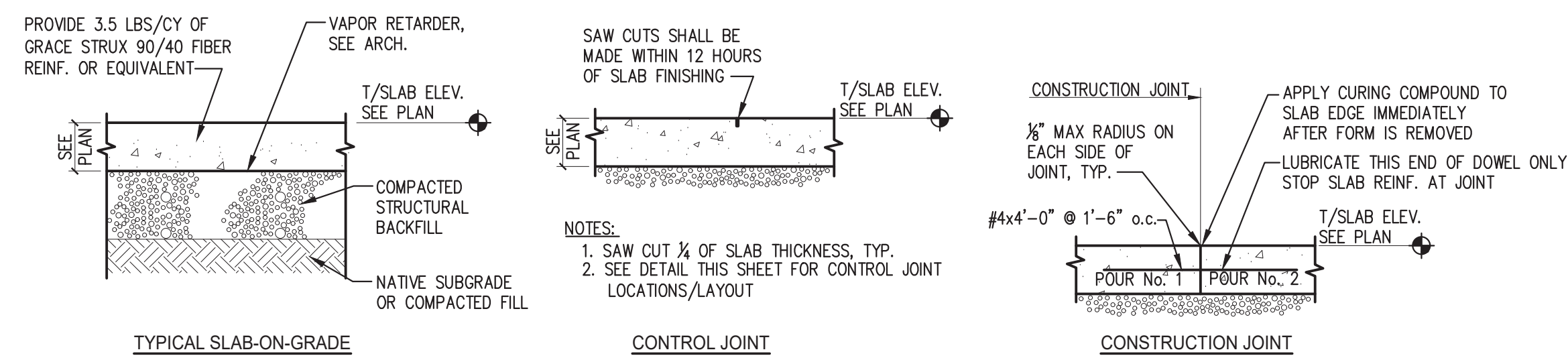
- NOTES:
 1. SEE SHEET S3.0 FOR TYPICAL SLAB-ON-GRADE DETAIL
 2. REFERENCE T/SLAB ELEVATION = 494'-2 1/2"





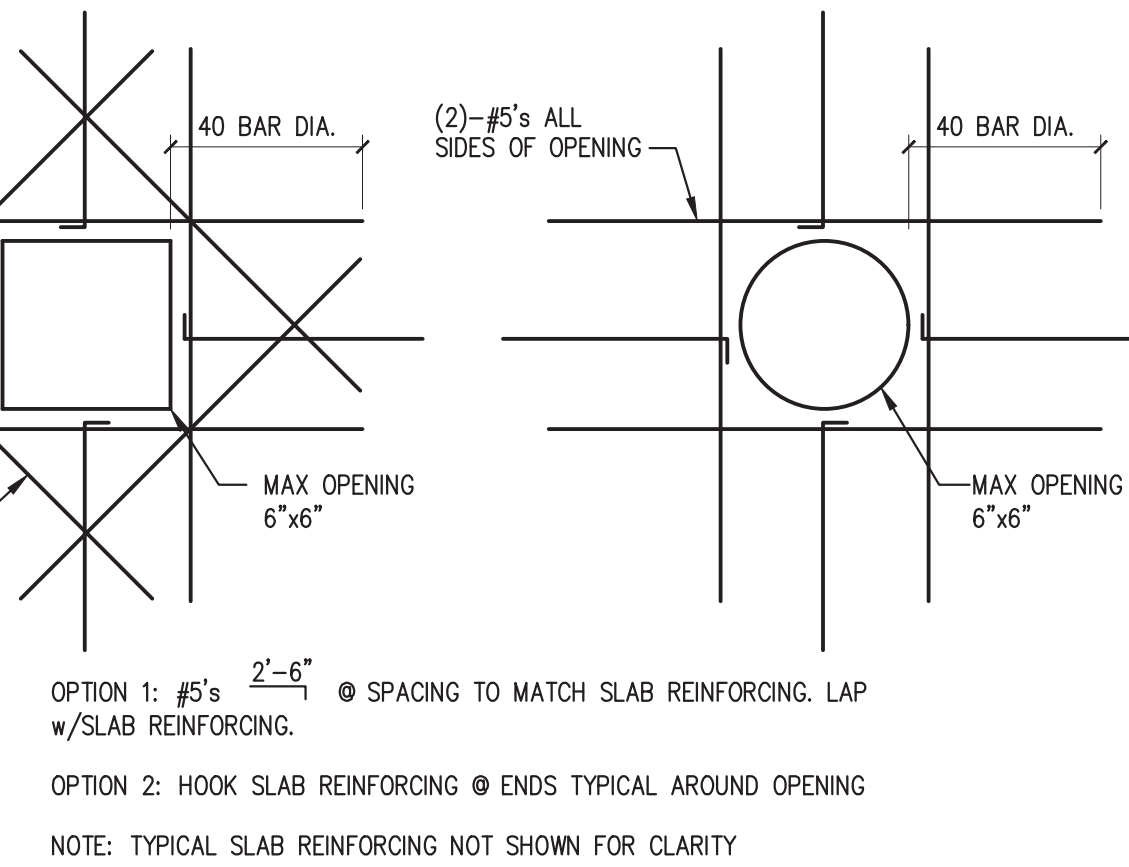
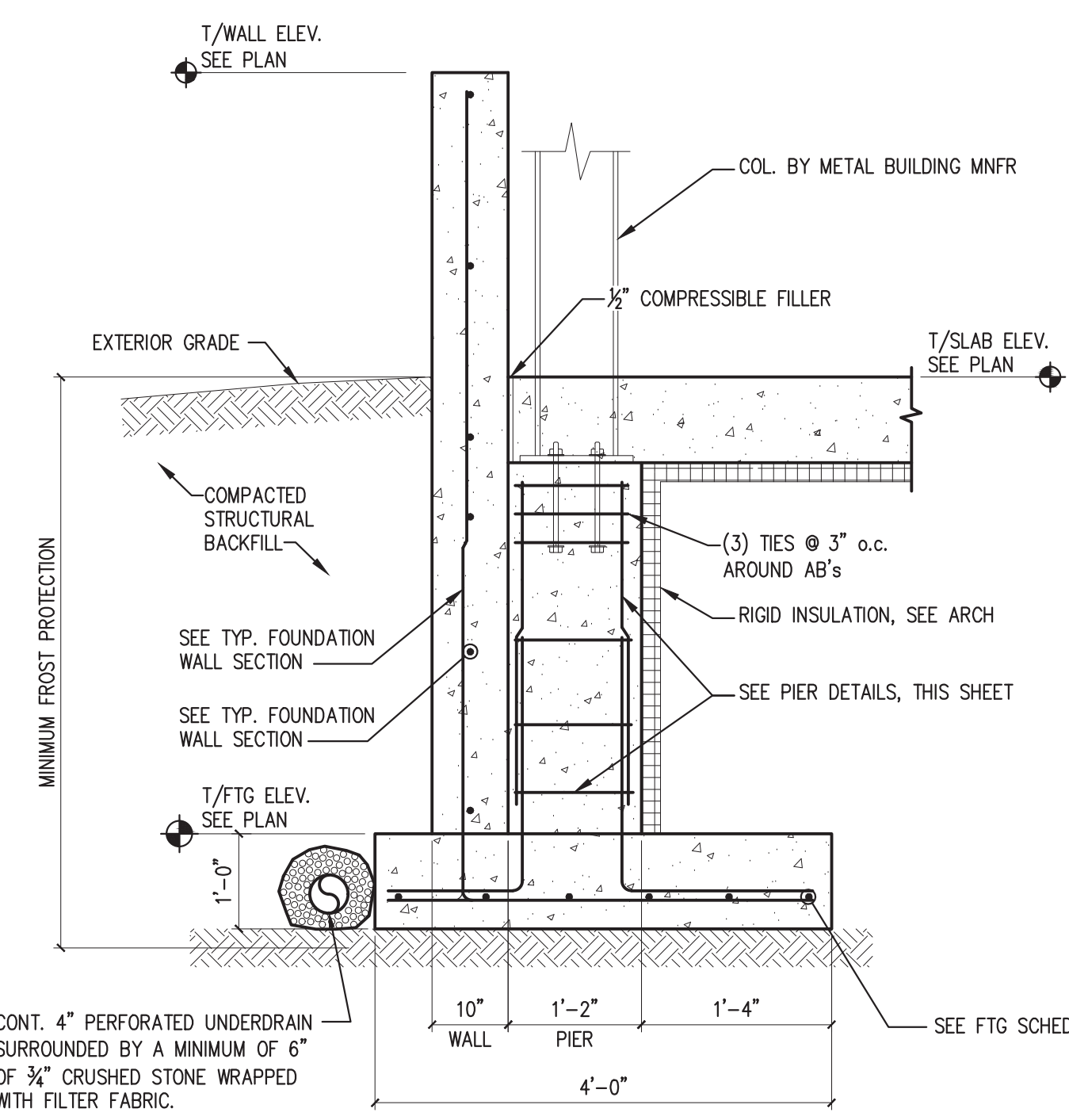
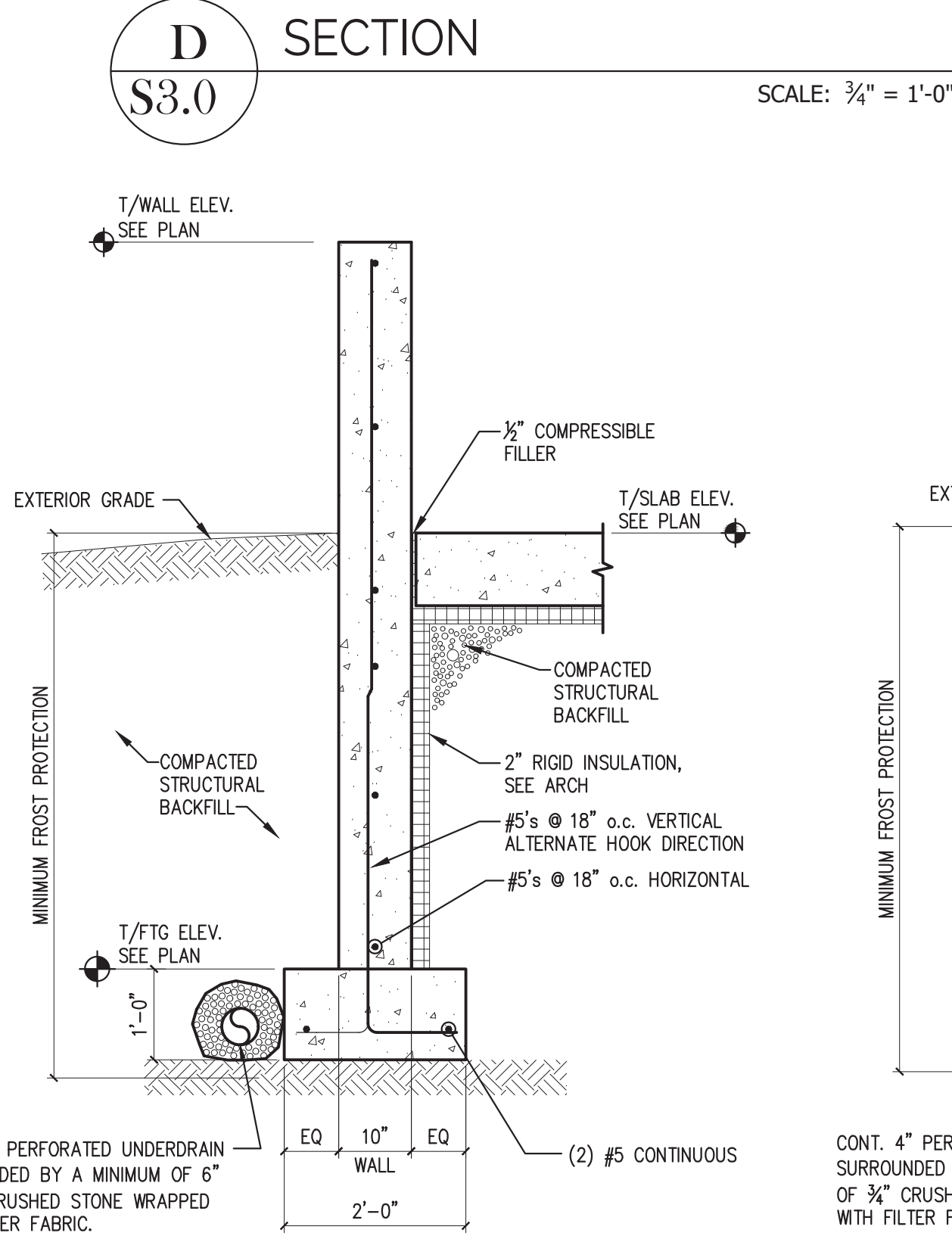
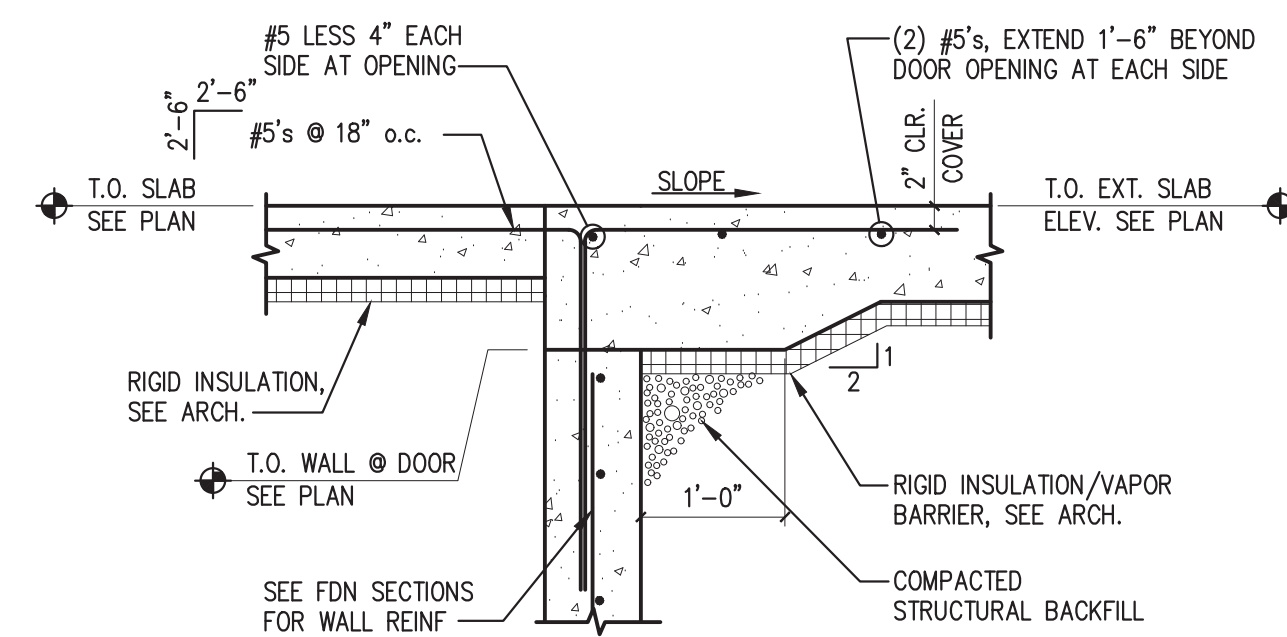
TYP. FOUNDATION WALL DETAILS

SCALE: NTS



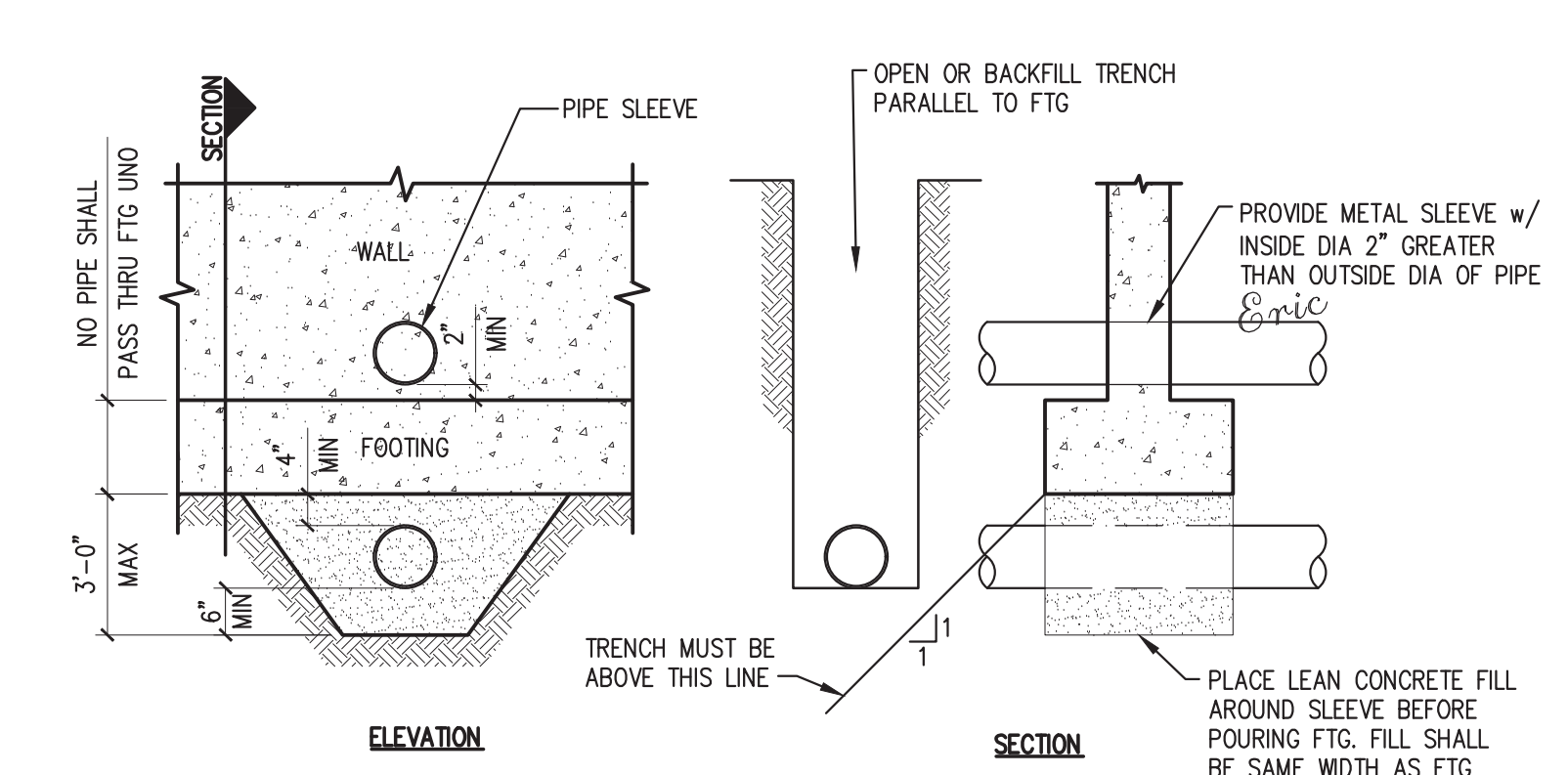
TYP. SLAB-ON-GRADE DETAIL

SCALE: NTS



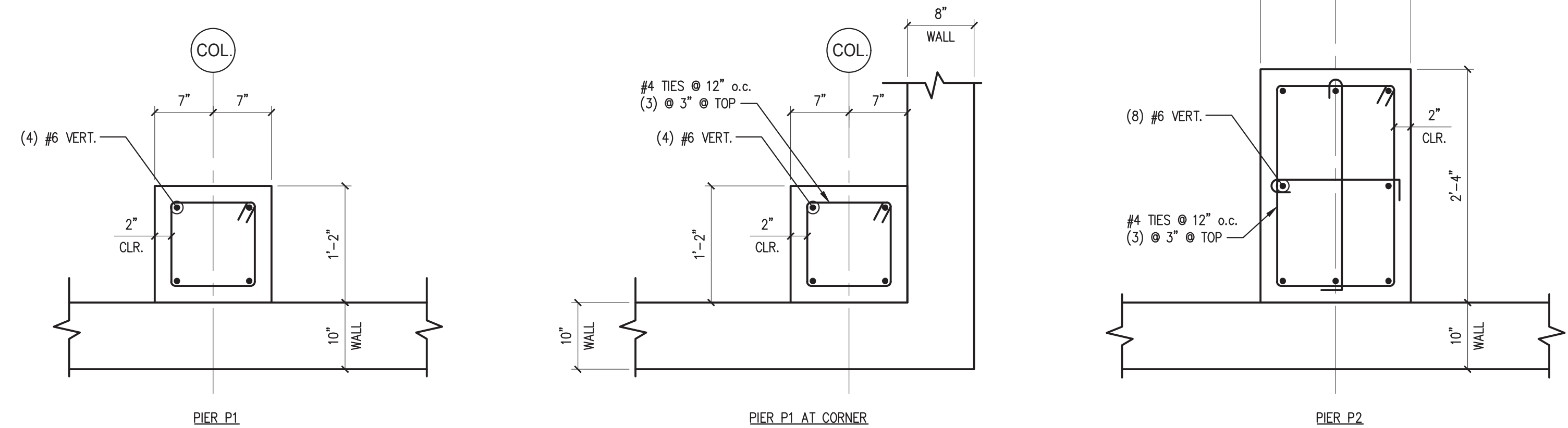
TYPICAL OPENING IN WALL OR SLAB DETAIL

SCALE: NTS



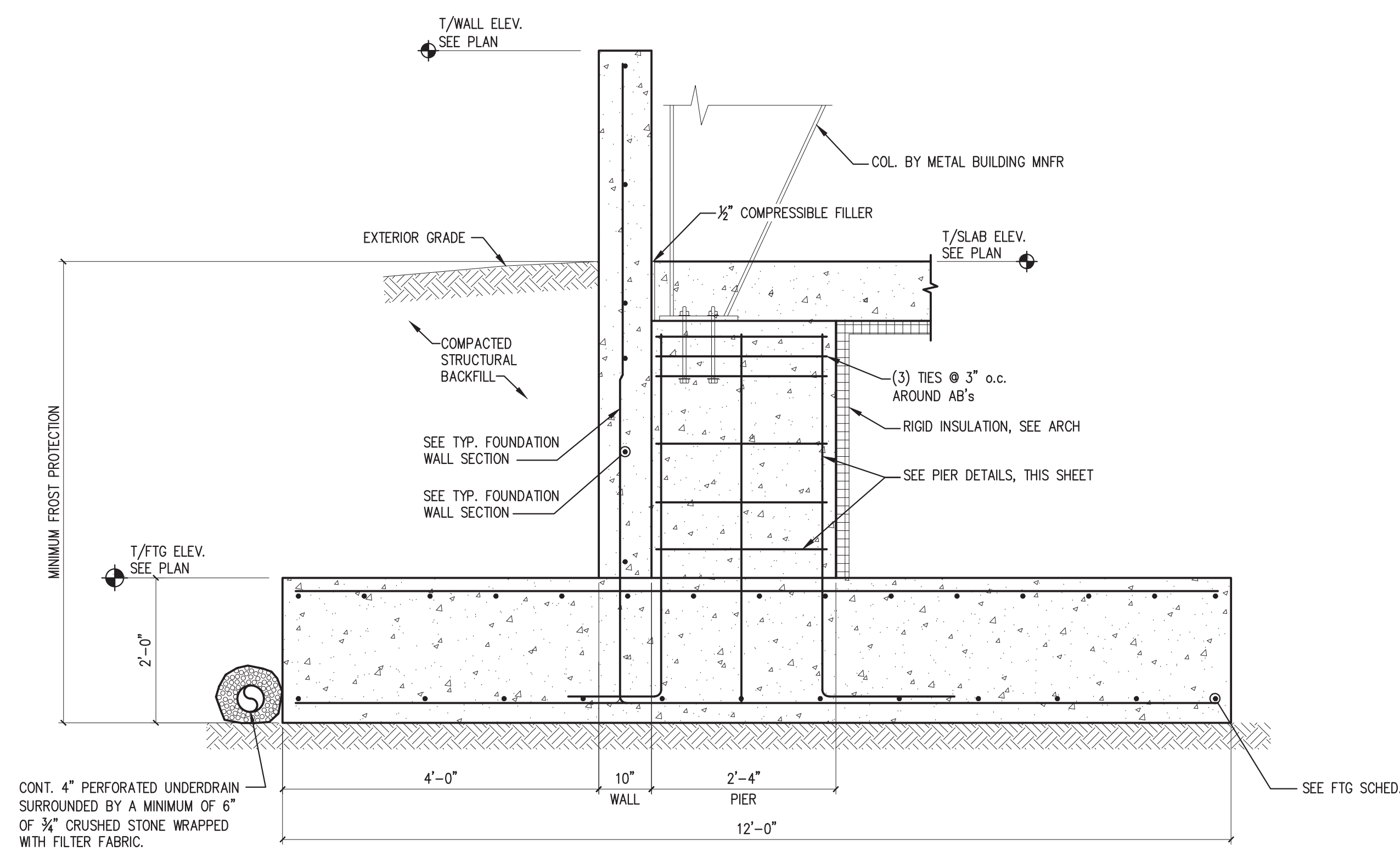
TYP. THROUGH WALL WALL PENETRATION DETAIL

SCALE: NTS



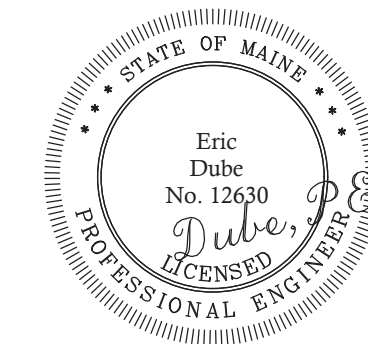
PIER DETAILS

SCALE: 1" = 1'-0"



SECTION C

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



STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Ordway Drive, Sherman, Maine
WIN 025240.00

TRILLIUM
ENGINEERING GROUP
189 MAIN STREET SUITE 200
YARMOUTH, ME 04096

David Matero
Architecture
49 Cortha Street
Bath, Maine 04530
207.389.4278
info@davidmatero.com

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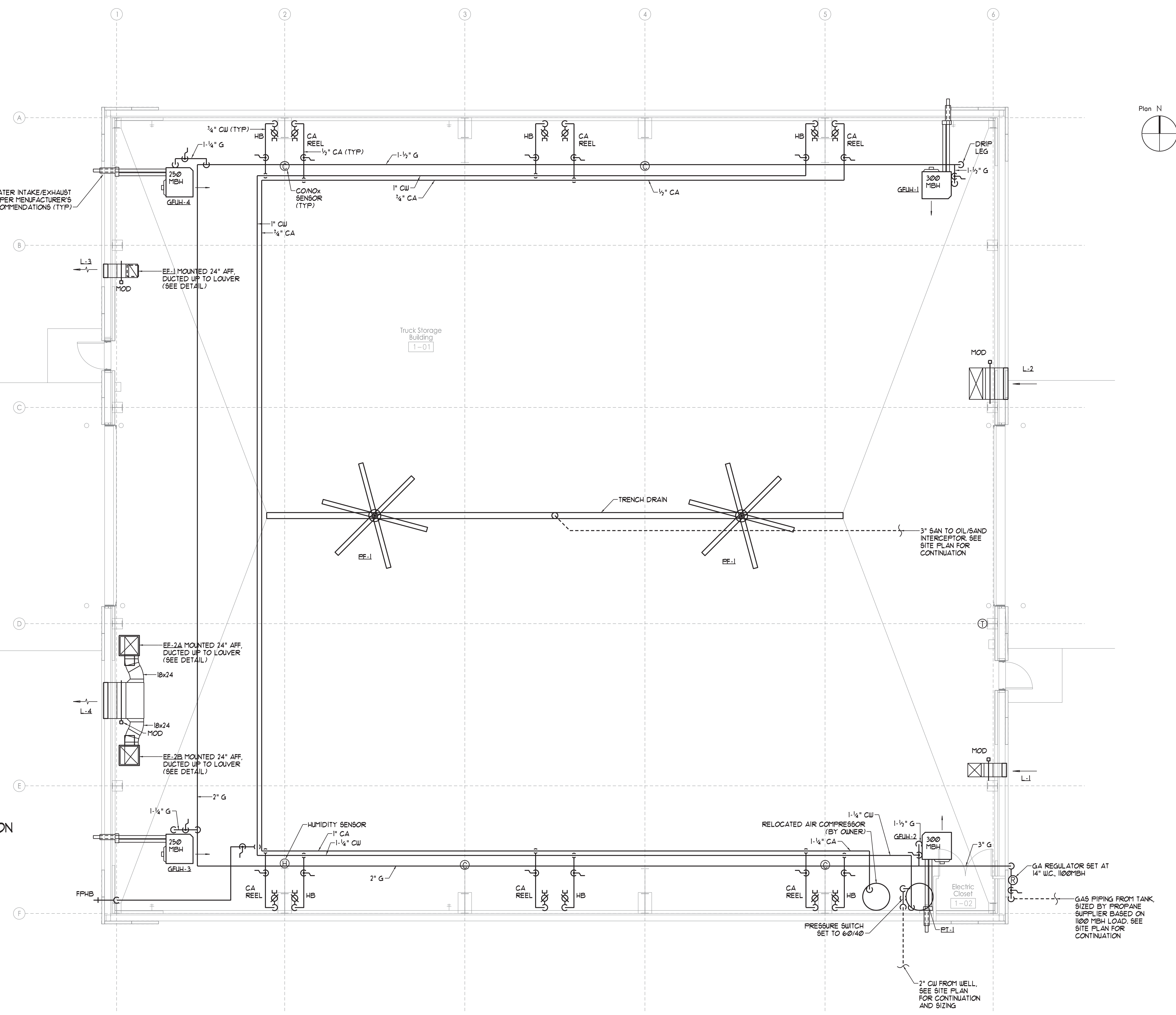
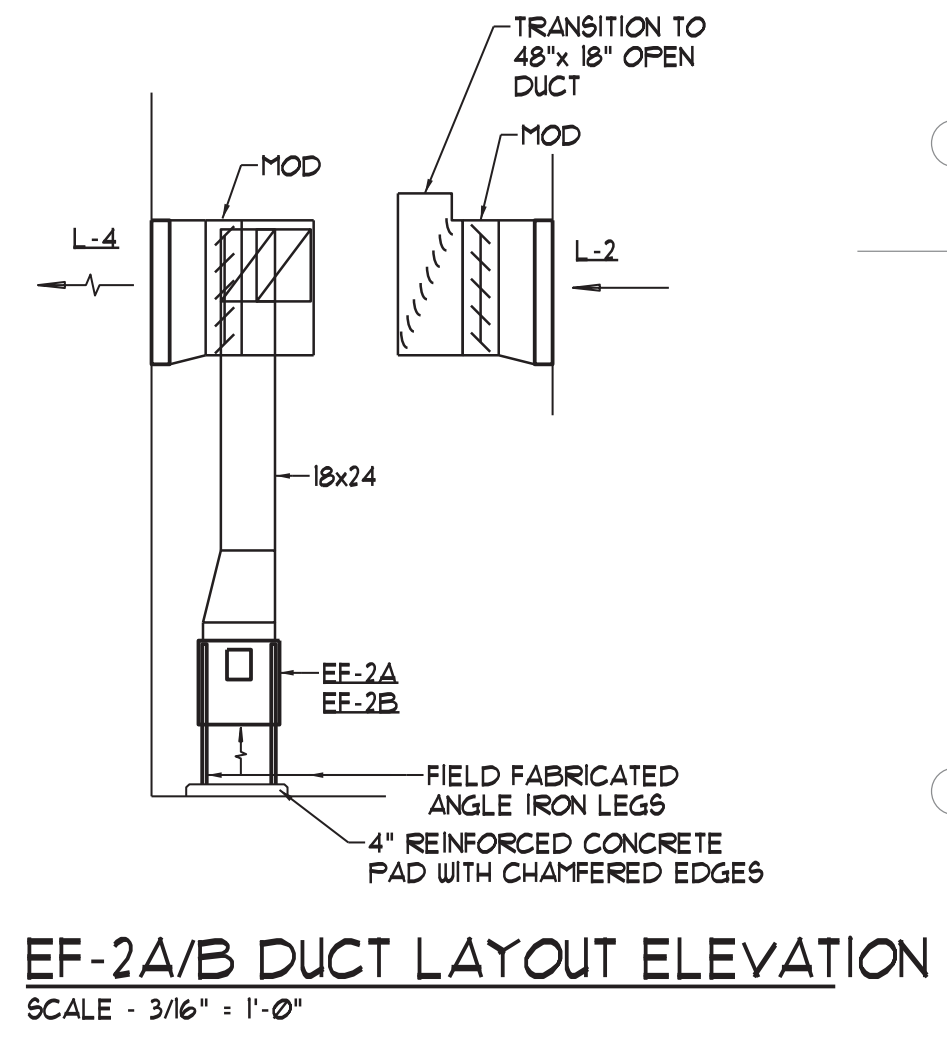
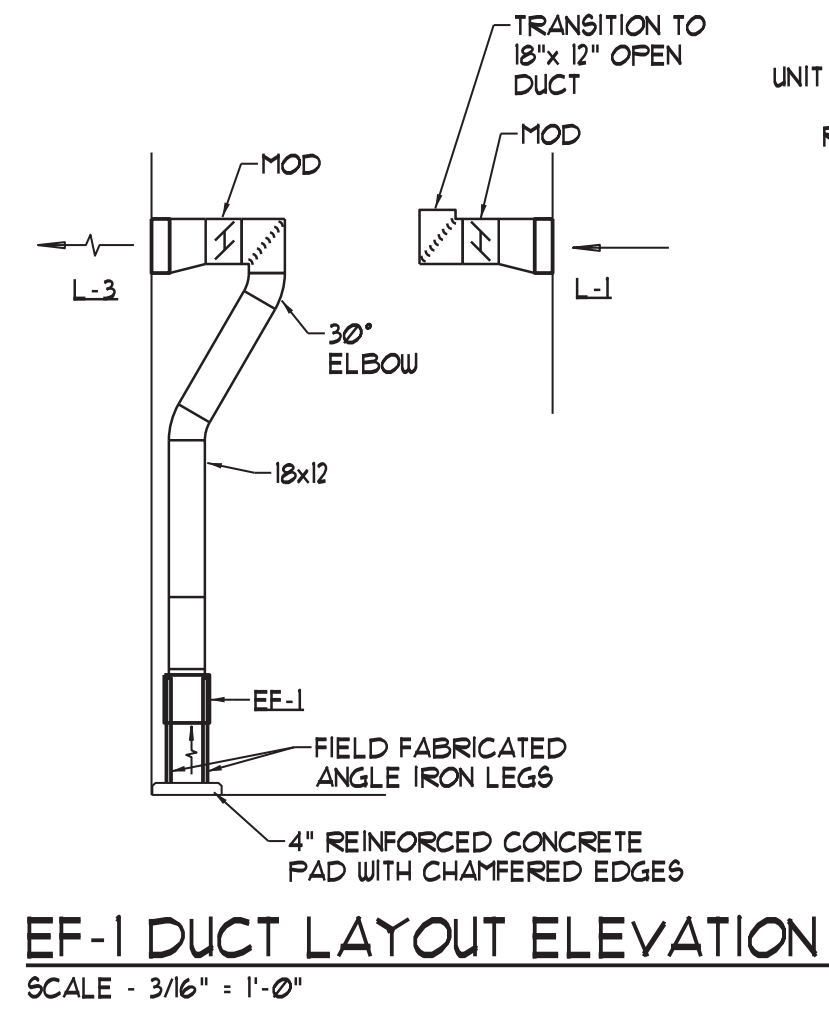
DATE	ME	PE NUMBER	DATE
			20211117

BY	DATE	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES

MDOT SHERMAN
FOUNDATION DETAILS
AND SECTIONS

SHEET NUMBER

S3.0



MECHANICAL / PLUMBING PLAN
SCALE: 3/16" = 1'-0"

PREPARED FOR: STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Qualey Drive, Sherman, Maine
WIN 02524.00

TRILLIUM
ENGINEERING GROUP
189 MAIN STREET SUITE 200
YARMOUTH, ME 04095

David Matero
Architecture
49 Centre Street
Bath, Maine 04530
207.339.4078
info@davidmatero.com

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(207) 865-9475

JUSTIN VALLIERE
ME 10548
PE NUMBER
2021.11.18
DATE

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	JMV						

Mechanical Plan

SHEET NUMBER
M1.1

GAS-FIRED UNIT HEATER PERFORMANCE SCHEDULE													
TAG	INPUT (MBH)	OUTPUT (MBH)	THERMAL EFF. %	AIRFLOW (CFM)	VELOCITY (FFM)	MTGHT. (FEET)	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN REZNR		
							HP	FLA	MOCF	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
GFUH-1	300	249	83	3043	802	14	1/2	11.0	20	120/1/60	GARAGE	HORIZONTAL	UDAS-300
GFUH-2	250	207	83	3202	911	14	1/2	11.0	20	120/1/60	GARAGE	HORIZONTAL	UDAS-300
GFUH-3	250	207	83	3202	911	14	1/4	7.5	15	120/1/60	GARAGE	HORIZONTAL	UDAS-250
GFUH-4	250	207	83	3202	911	14	1/4	7.5	15	120/1/60	GARAGE	HORIZONTAL	UDAS-250

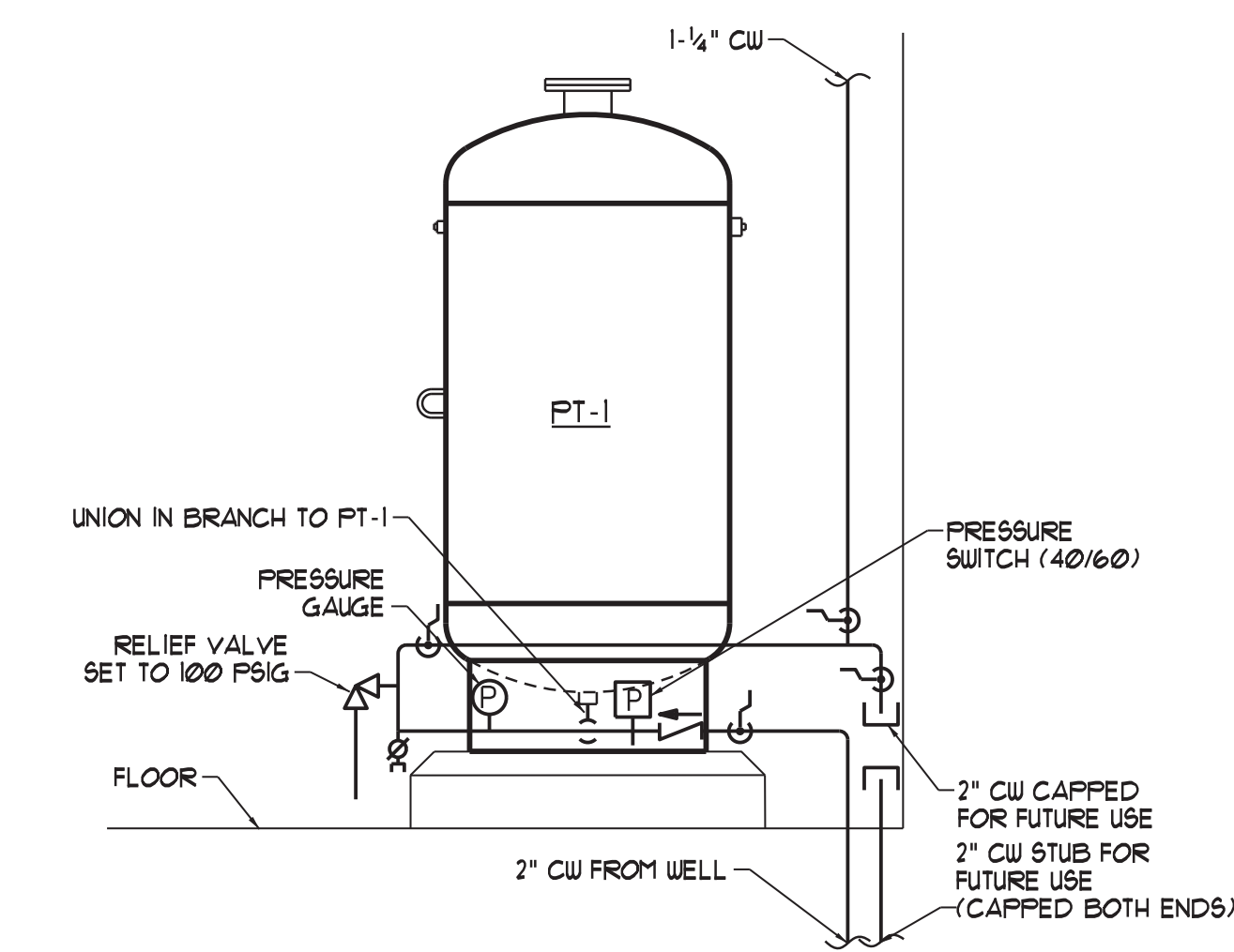
FAN PERFORMANCE SCHEDULE													
TAG	AIRFLOW (CFM)	T.S.P. (INWG)	NOISE (SONES)	RPM	DRIVE	ELECTRICAL REQUIREMENTS				BASIS OF DESIGN - GREENHECK			
						HP	BHP	ECM	AMPS	V/PH/Hz	SERVICE	ARRANGEMENT	MODEL
EF-1	360	0.5	1.6	1579	DIRECT	1/10	0.071	Y	-	120/1/60	CONTINUOUS EXHAUST	INLINE	SQ-90-VG
EF-2A	350	0.5	1.23	941	BELT	3/4	0.64	-	-	230/1/60	INTERMITTENT EXHAUST	INLINE	BSQ-180-1
EF-2B	350	0.5	1.23	941	BELT	3/4	0.64	-	-	230/1/60	INTERMITTENT EXHAUST	INLINE	BSQ-180-1

PROVIDE FANS WITH INLET GUARDS AND BELT GUARDS

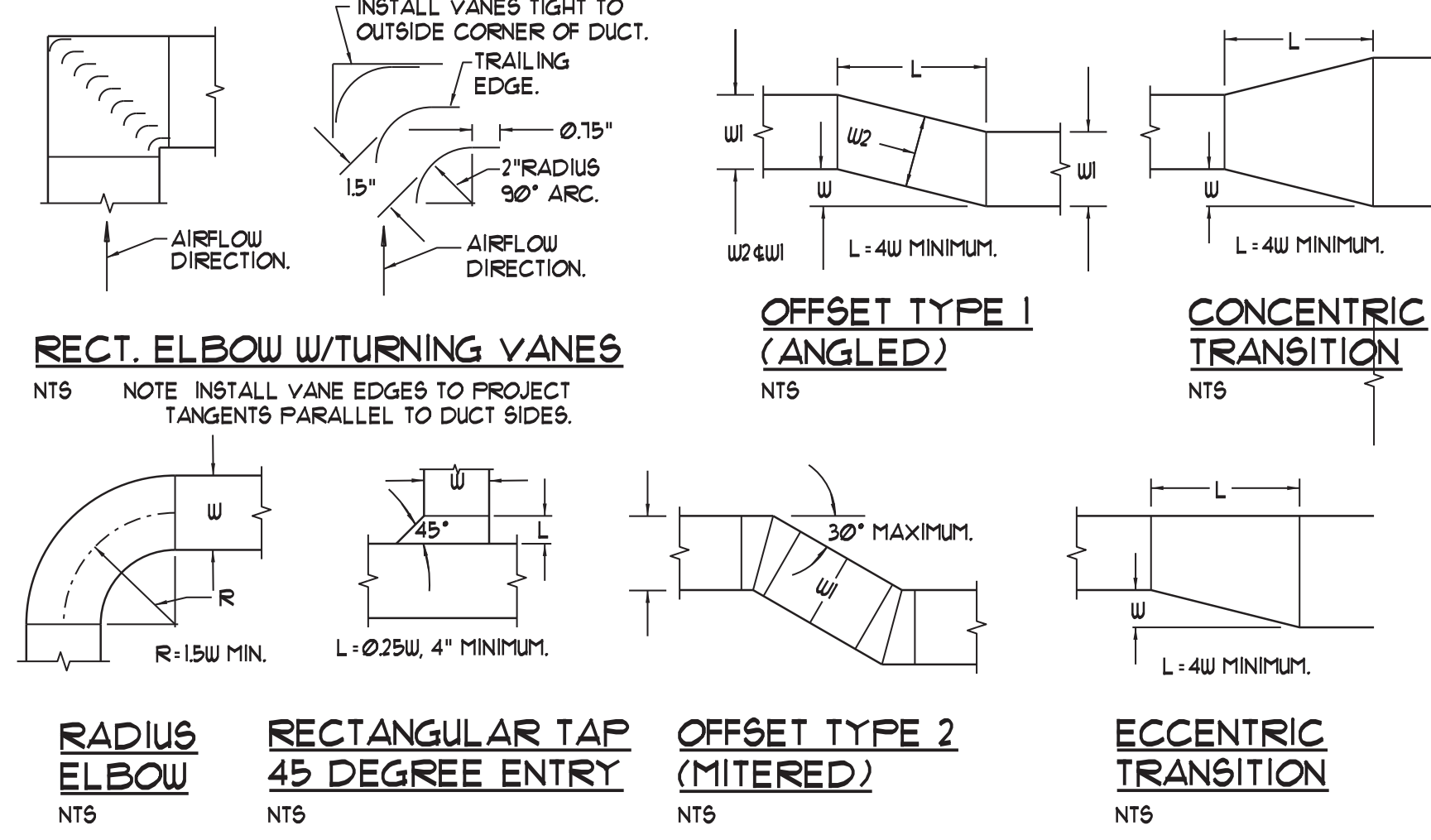
PRESSURE TANK PERFORMANCE SCHEDULE									
TAG	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	MINIMUM DRAWDOWN (GAL @ 60/40)	MAX. WORK'G. TEMPERATURE (DEG F)	MAX. WORK'G. PRESSURE (PSI)	WEIGHT (LBS)	BASIS OF DESIGN - AMTROL		
							MOUNTING	SERVICE	MODEL
PT-1	158	158	36	240	150	587	FLOOR	DOM WATER	WX-45C

PADDLE FAN PERFORMANCE SCHEDULE									
TAG	AIRFLOW (CFM)	RPM	QTY BLADES 4 DIA(IN)	ELECTRICAL REQUIREMENTS			BASIS OF DESIGN - BIG ASS FANS		
				HP	AMPS	V/PH/Hz	SERVICE	WEIGHT	MODEL
PF-1	-	135	6, 12 FT	15	25	240/1/60	GARAGE	185	BASIC 6

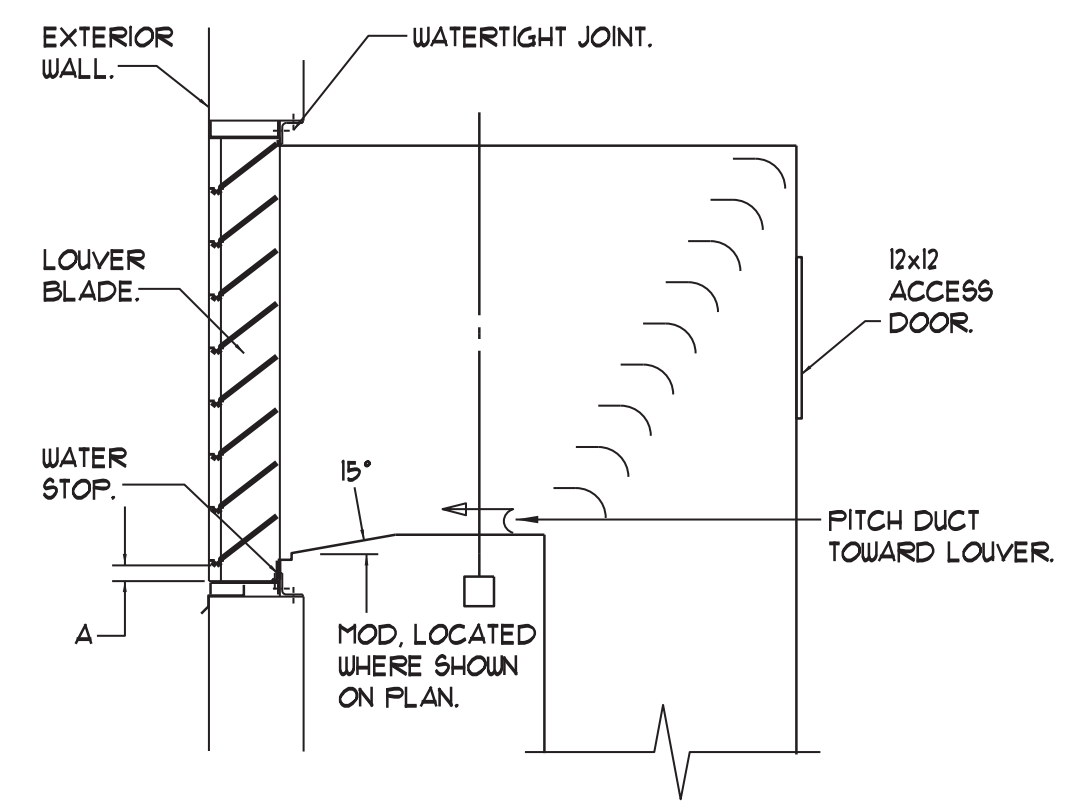
LOUVER PERFORMANCE SCHEDULE									
TAG	AIR FLOW (CFM)	SP LOSS (INWG)	AIR VEL. (FFM)	SIZE (INCHES) (W x H)	FREE AREA (SQFT)	DRAINABLE (Y) OR (N)	BLADE ANGLE 4 FRAME DEPTH	BASIS OF DESIGN - RUSKIN	
								SERVICE	MODEL
L-1	450	0.03	448	18x18	1.00	Y	37-1/2°, 6"	EF-1 MAKEUP	ELF6315DX
L-2	6300	0.08	634	48x48	9.08	Y	37-1/2°, 6"	EF-2 MAKEUP	ELF6315DX
L-3	450	0.03	448	18x18	1.00	Y	37-1/2°, 6"	EF-1 EXHAUST	ELF6315DX
L-4	6300	0.08	634	48x48	9.08	Y	37-1/2°, 6"	EF-2 EXHAUST	ELF6315DX



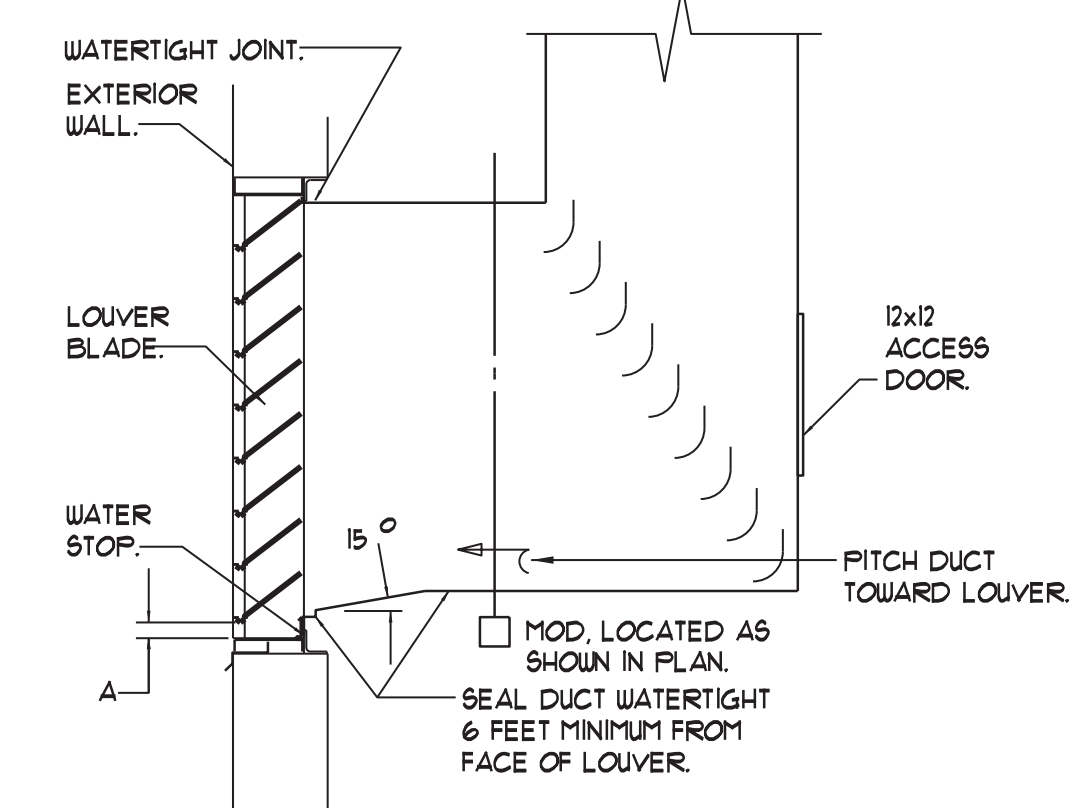
WATER ENTRANCE DETAIL



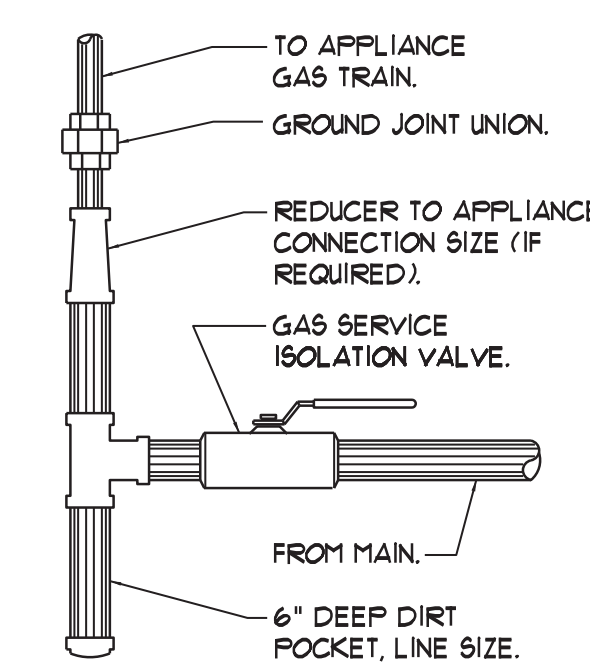
LOW PRESSURE DUCT CONSTRUCTION DETAILS - TYPICAL



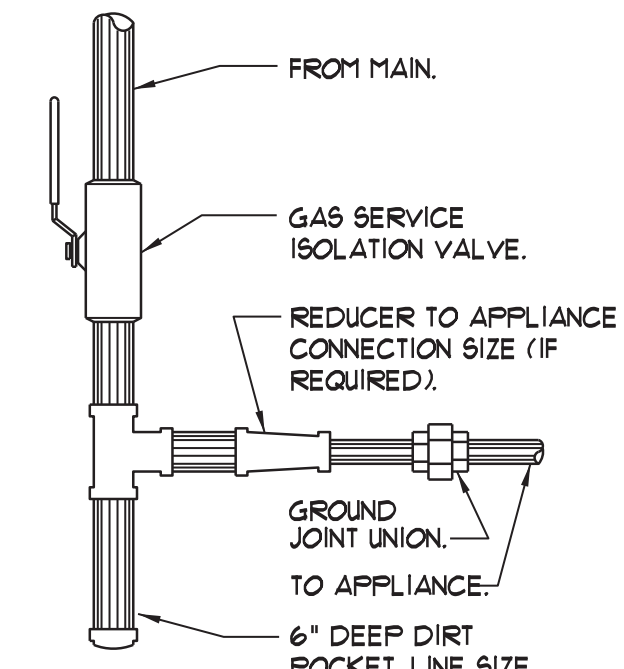
LOUVER DETAIL WITH DUCT FROM BELOW



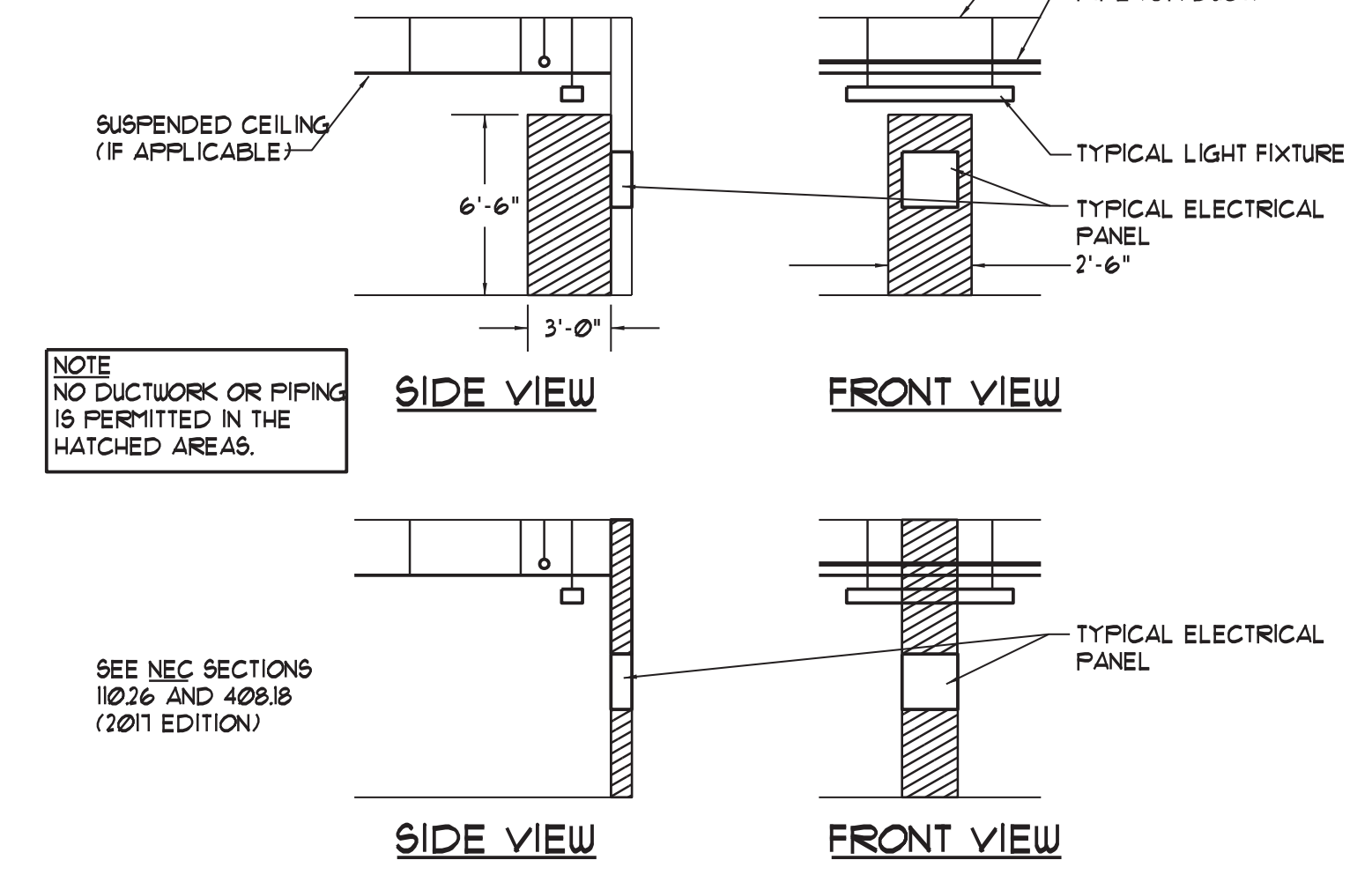
LOUVER DETAIL WITH DUCT FROM ABOVE



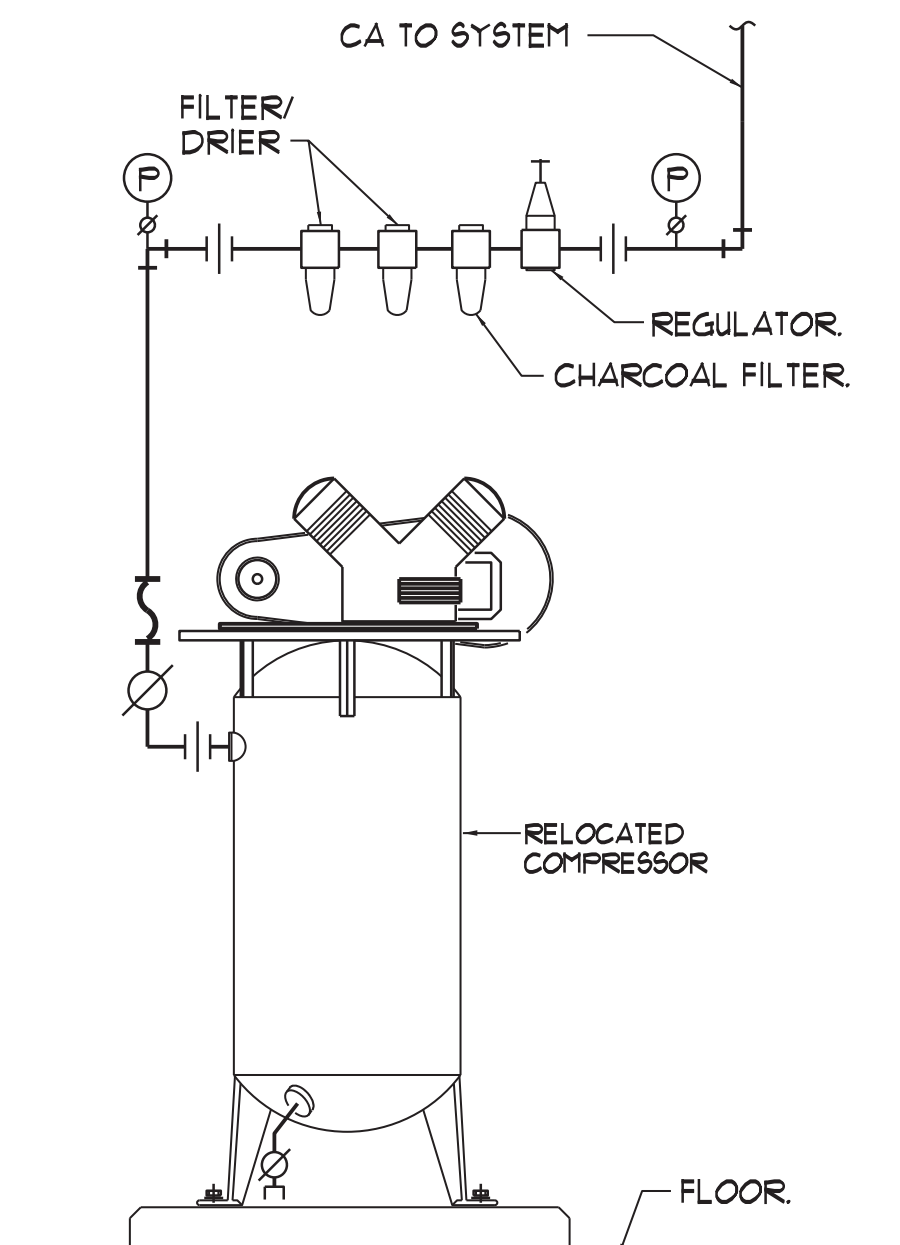
UPFEED GAS PIPING CONNECTION DETAIL



DOWNFEED GAS PIPING CONNECTION DETAIL



CLEARANCES AT ELECTRICAL PANELS



COMPRESSOR PIPING DETAIL

MECHANICAL AND PLUMBING SYMBOLS AND ABBREVIATIONS LEGEND

NOTE - USE SYMBOLS AND ABBREVIATIONS AS APPLICABLE FOR THIS MECHANICAL DRAWING SET. SOME SYMBOLS AND ABBREVIATIONS IN THIS LEGEND MAY NOT APPLY.

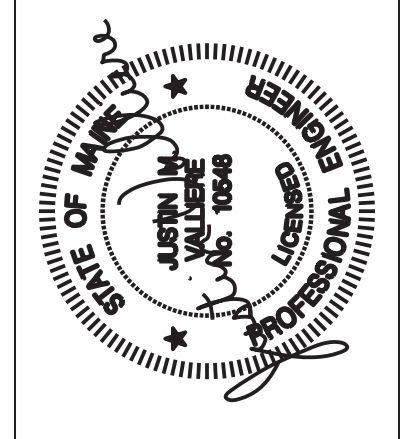
SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION	ABBREVIATION	DESCRIPTION
CA	COMPRESSED AIR PIPING (CA)	BV	BALL VALVE	TSTAT	TSTAT OR SENSOR W/ TAMPERPROOF GUARD	B*	BOILER TAG	EUB	ENTERING WET BULB	LB	POUNDS	RPZ	REDUCED PRESSURE ZONE
C	CONDENSATE DRAIN PIPING (C)	BV	BALL VALVE	MANUAL	MANUAL AIR VENT	BD*	BYPASS DAMPER TAG	EUH*	ELECTRIC WATER HEATER TAG	LD*	LINEAR DIFFUSER TAG	RR*	RETURN REGISTER TAG
CUR	CHILLED WATER RETURN PIPING (CUR)	BV	3/4" BALL VALVE WITH 3/4" HOSE END	NOTE TAG (NUMBER)	NOTE TAG (NUMBER)	BFP*	BACKFLOW PREVENTER TAG	EUT	ENTERING WATER TEMPERATURE	LTHUS/R	LOW TEMPERATURE HOT WATER	RTU	ROOM TEMPERATURE SENSOR
CUS	CHILLED WATER SUPPLY PIPING (CUS)	GV	GATE VALVE	AIR DEVICE TAG (LETTER) WITH CFM	AIR DEVICE TAG (LETTER) WITH CFM	BHP	BRAKE HORSEPOWER	EXG	EXISTING	LRA	LOCKED ROTOR AMPS	RV	RELIEF VALVE
FOR	FUEL OIL RETURN PIPING (FOR)	RV	PRESSURE REDUCING VALVE	ROOM NUMBER	ROOM NUMBER	BTUH	BRITISH THERMAL UNITS PER HOUR	EXH	EXHAUST	LUCCO	LOW WATER CUTOFF	RUL	RAINWATER LEADER
FOS	FUEL OIL SUPPLY PIPING (FOS)	FV	FUSIBLE VALVE	TURNING VANES	TURNING VANES	CBD	COUNTER BALANCED DAMPER	FC	FLEXIBLE CONNECTION	LUT	LEAVING WATER TEMPERATURE	SA	SUPPLY AIR
G	GAS PIPING (G)	WBV	STRAINER W/ BLOWDOWN BALL VALVE	DUCT W/ MANUAL DAMPER	DUCT W/ MANUAL DAMPER	CC*	COOLING COIL TAG	FCO	FLOOR CLEANOUT	MAX	MAXIMUM	SAN	SANITARY (DRAIN 4 WASTE)
HUR	HOT WATER RETURN PIPING (HUR)	2-WAY	2-WAY CONTROL VALVE	DUCT W/ FLEXIBLE CONNECTION (FC)	DUCT W/ FLEXIBLE CONNECTION (FC)	CFM	CUBIC FEET PER MINUTE	FD	FIRE DAMPER	MBH	THOUSANDS OF BTU PER HOUR	SD	SNOKE DAMPER
HUS	HOT WATER SUPPLY PIPING (HUS)	3-WAY	3-WAY CONTROL VALVE	LAGGED DUCT	LAGGED DUCT	CO	COOLING TOWER TAG	FD*	FLOOR DRAIN TAG	MCA	MINIMUM CIRCUIT AMPACITY	SEER	SEASONAL ENERGY EFFICIENCY RATIO
RL	REFRIGERANT LIQUID PIPING (RL)	3-WAY	3-WAY CONTROL VALVE	DUCT W/ ACOUSTIC LINING	DUCT W/ ACOUSTIC LINING	CUH*	CLEANOUT	FLA	FULL LOAD AMPS	MIN	MINIMUM	SF	SUPPLY FAN
RG	REFRIGERANT GAS PIPING (RG)	TOP VIEW	3-WAY CONTROL VALVE (TOP VIEW)	DUCT W/ SQUARE-TO-ROUND TRANSITION	DUCT W/ SQUARE-TO-ROUND TRANSITION	CP*	CIRCULATING PUMP TAG	FOR	FUEL OIL RETURN	NC	NOT IN CONTRACT	SP	STATIC PRESSURE
SAN	SANITARY PIPING BELOW FLOOR (SAN)	2 BUTTERFLY	2 BUTTERFLY VALVES W/ SINGLE ACTUATOR	FLEXIBLE DUCT	FLEXIBLE DUCT	POS	FUEL OIL SUPPLY	FFHB	FROST PROOF HOSE BIBB	NTS	NOT TO SCALE	SR*	SUPPLY REGISTER TAG
SAN	SANITARY PIPING ABOVE FLOOR (SAN)	W/ACTUATOR	BUTTERFLY VALVE W/ACTUATOR	DUCT W/ SQUARE-TO-ROUND TRANSITION	DUCT W/ SQUARE-TO-ROUND TRANSITION	FFM	FEET PER MINUTE	FFM	FLOOR SINK TAG	OA	OUTSIDE AIR	SQFT	SQUARE FEET
SV	SANITARY VENT PIPING	TRIPLE-DUTY	BUTTERFLY VALVE W/ACTUATOR TRIPLE-DUTY VALVE	MOTOR OPERATED DAMPER	MOTOR OPERATED DAMPER	FS*	FLOOR SINK TAG	FT	FEET	OBD	OPPOSED BLADE DAMPER	ΔT	TEMPERATURE DIFFERENTIAL
RUL	RAINWATER LEADER ABOVE SLAB (RUL)	UNION	UNION	AIRFLOW OUT	AIRFLOW OUT	FT*	FINTUBE RADIATION TAG	GA	GAGE	OED	OUTSIDE DIAMETER	TEMP.	TEMPERATURE
CW	COLD WATER PIPING (CW)	PIPE FLANGE	PIPE FLANGE	AIRFLOW IN	AIRFLOW IN	GA	GALLONS	GAL	GALLONS	OD	OPEN ENDED DUCT	TEMP.	TEMPERATURE
HW	HOT WATER PIPING (HW)	PUMP WITH FLANGES	PUMP WITH FLANGES	DIAMETER OR FLAT OVAL	DIAMETER OR FLAT OVAL	GA	GALLONS	GAL	GALLONS	OPD	OVERFLOW ROOF DRAIN	TCP	TEMPERATURE CONTROL PANEL
RHW	RE-CIRCULATED HOT WATER PIPING (RHW)	BASE MOUNTED PUMP	BASE MOUNTED PUMP	ROUND OR FLAT OVAL DUCT DOWN	ROUND OR FLAT OVAL DUCT DOWN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	TMV*	THERMOSTATIC MIXING VALVE TAG
PIPE CAP	PIPE CAP	CARTRIDGE TYPE INLINE PUMP	CARTRIDGE TYPE INLINE PUMP	ROUND OR FLAT OVAL DUCT UP	ROUND OR FLAT OVAL DUCT UP	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	TSP	TOTAL STATIC PRESSURE
DIRECTION OF FLUID FLOW	DIRECTION OF FLUID FLOW	VERTICAL INLINE PUMP	VERTICAL INLINE PUMP	SUPPLY DIFFUSER	SUPPLY DIFFUSER	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	TYP	TYPICAL
ELBOW UP	ELBOW UP	FLEXIBLE PIPE CONNECTION (FC)	FLEXIBLE PIPE CONNECTION (FC)	RETURN GRILLE	RETURN GRILLE	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	UH*	UNIT HEATER TAG
ELBOW DOWN	ELBOW DOWN	PETCOCK	PETCOCK	STEAM TRAP	STEAM TRAP	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	UNO.	UNLESS NOTED OTHERWISE
PIPE TEE UP	PIPE TEE UP	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR	WATER HAMMER ARRESTOR	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	VAV*	VARIABLE AIR VOLUME BOX TAG
PIPE TEE DOWN	PIPE TEE DOWN	AUTOMATIC AIR VENT	AUTOMATIC AIR VENT	WATER FLOW SWITCH	WATER FLOW SWITCH	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	VB	VACUUM BREAKER
PIPE REDUCER	PIPE REDUCER	ACCESS DOOR	ACCESS DOOR	AIR PRESSURE DROP	AIR PRESSURE DROP	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	VFD	VARIABLE FREQUENCY INVERTER DRIVE
PIPE WITH GUIDE	PIPE WITH GUIDE	ABOVE FINISHED FLOOR	ABOVE FINISHED FLOOR	IMMERSION TEMPERATURE SENSOR	IMMERSION TEMPERATURE SENSOR	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	VTR	VENT THRU ROOF
PIPE WITH ANCHOR	PIPE WITH ANCHOR	AIR HANDLING UNIT TAG	AIR HANDLING UNIT TAG	DUCT MOUNTED SMOKE DETECTOR	DUCT MOUNTED SMOKE DETECTOR	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	V/PH/Hz	VOLTS/PHASES/HERTZ
BUTTERFLY VALVE	BUTTERFLY VALVE	AIRFLOW MONITORING STATION	AIRFLOW MONITORING STATION	ROOM TEMPERATURE SENSOR	ROOM TEMPERATURE SENSOR	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	WA	WATER GAGE
OS 4 Y GATE VALVE	OS 4 Y GATE VALVE	ACCESS PANEL	ACCESS PANEL	THERMOSTAT OR SENSOR ON WALL	THERMOSTAT OR SENSOR ON WALL	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	WD	WATER PRESSURE DROP
BACKFLOW PREVENTER (BFP)	BACKFLOW PREVENTER (BFP)	AIR PRESSURE DROP	AIR PRESSURE DROP			OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	WSA	WIRE SIZING AMPS
CHECK VALVE	CHECK VALVE	AIR SEPARATOR TAG	AIR SEPARATOR TAG			OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	WTD	WATER TEMPERATURE DROP
BALANCING VALVE (ADJUSTABLE)	BALANCING VALVE (ADJUSTABLE)	AUTOMATIC TEMPERATURE CONTROL	AUTOMATIC TEMPERATURE CONTROL			OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	W	WITH
AUTOMATIC FLOW CONTROL VALVE	AUTOMATIC FLOW CONTROL VALVE					OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	ZD*	ZONE DAMPER TAG
RELIEF VALVE (RV)	RELIEF VALVE (RV)					OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN	OPD	OVERFLOW ROOF DRAIN		

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David Matero
 Architecture
 49 Centre Street
 Bath, Maine 04530
 207.339.4078
 info@davidmatero.com

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 (207) 865-9475



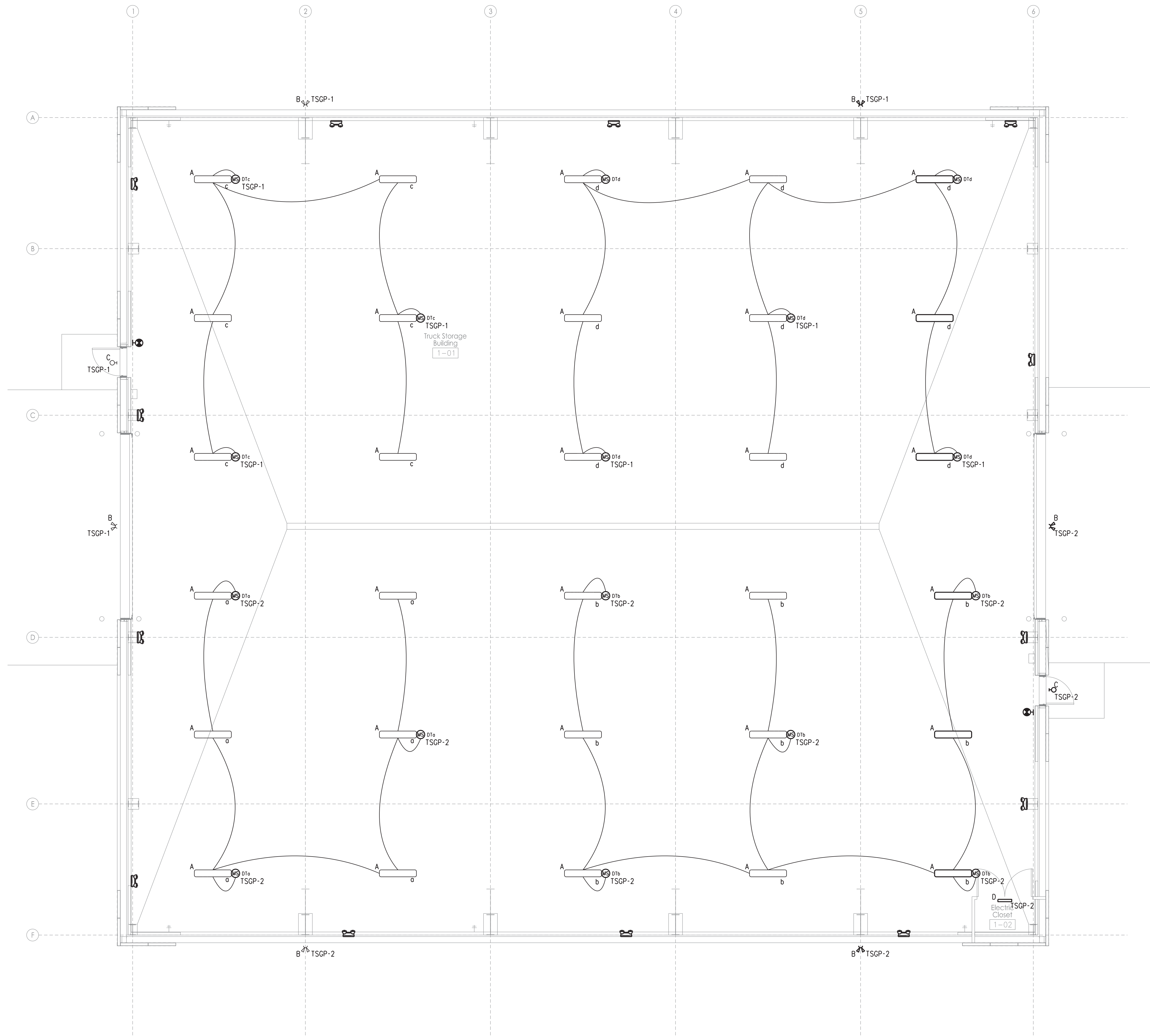
JUSTIN VALLIERE
 ME 10548
 PE NUMBER
 2021.11.18
 DATE

DATE	BY	DESIGN/DETAILED	CHECKED/REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	JMV						

Mechanical Schedules,
 Details and Legend

SHEET NUMBER

M2.1

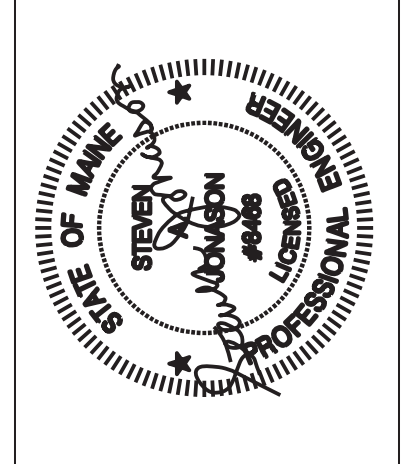
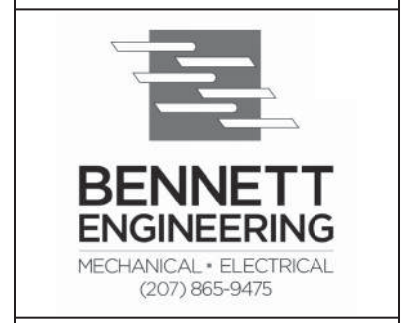


LIGHTING PLAN
SCALE: 3/16" = 1'-0"

PREPARED FOR: STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Qualey Drive, Sherman, Maine
WIN 02524.00



David Matero
Architecture
49 Centre Street
Bath, Maine 04530
207.339.4278
info@davidmatero.com



DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	SAJ						

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	SAJ						

Lighting Plan

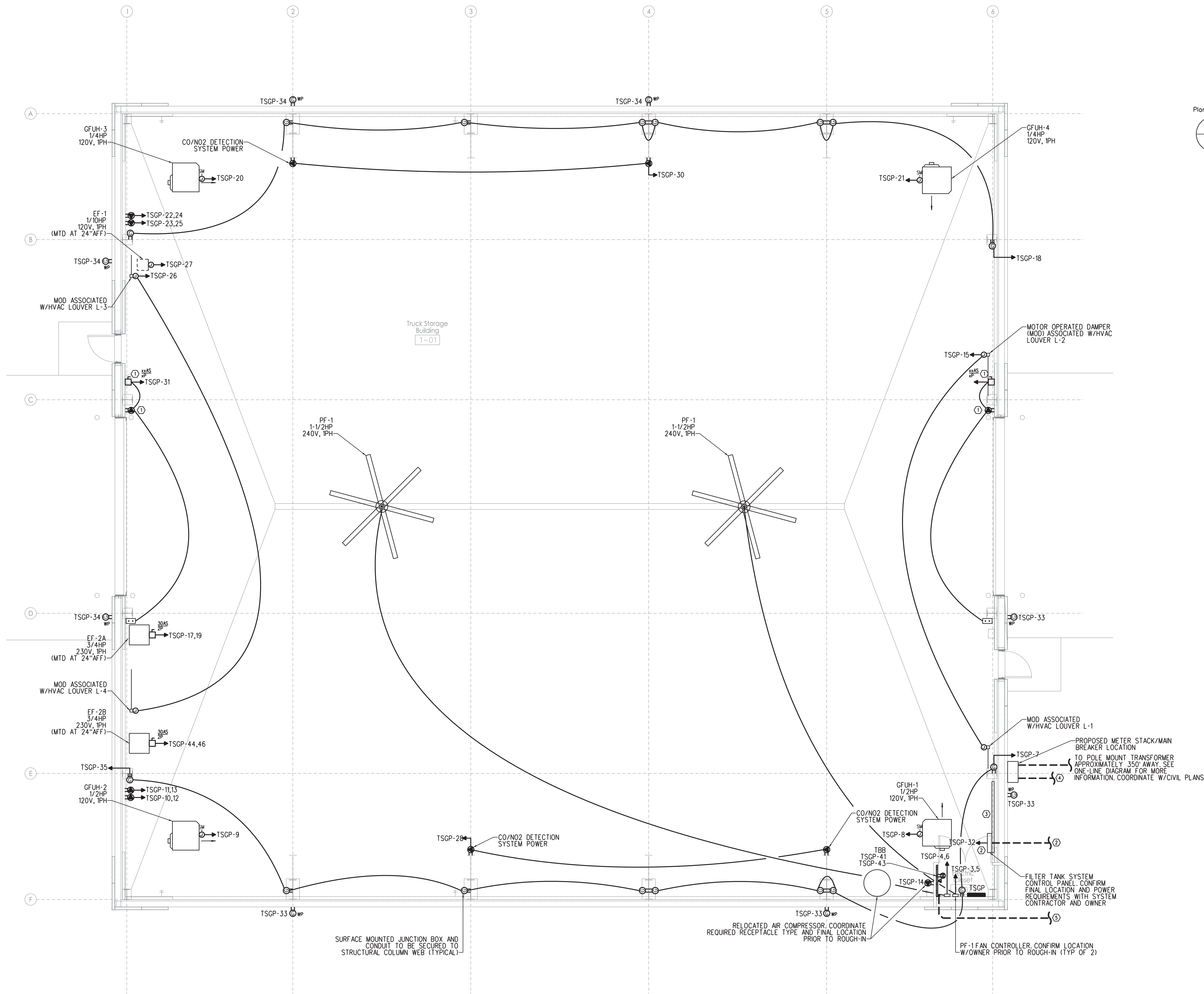
SHEET NUMBER
E1.1

POWER GENERAL NOTES

1. ALL HORIZONTAL CONDUIT RUNS SHALL BE ATTACHED TO GURT OF METAL BUILDING.

POWER WORK NOTES

- ① CONTRACTOR SHALL COORDINATE EXACT MOUNTING LOCATION WITH OVERHEAD DOOR MANUFACTURER.
- ② NEW FUEL TANKS WILL BE IN THE SAME AREA AS THE EXISTING TANKS. PROVIDE STEEL CONDUITS STUBBED AT TANK ALARM PANEL OUT THROUGH THE FOUNDATION AND BEYOND THE 30' PAVED APRON (4) 1-1/4" STEEL CONDUITS FOR THE NEW DIESEL TANK, (2) 1" STEEL CONDUITS FOR THE FLOOR DRAIN TANK. ALL CONDUCTORS SHALL BE PROVIDED BY TANK MANUFACTURER. COORDINATE EXACT LOCATION WITH TANK SYSTEM VENDOR AND CIVIL PRIOR TO ROUGH-IN.
- ③ CONTRACTOR SHALL PROVIDE 4'X8' PLYWOOD BOARD, PAINTED BLACK, FOR MOUNTING FUEL TANK SYSTEM CONTROLS AND ALARM EQUIPMENT.
- ④ CONTRACTOR SHALL PROVIDE 3" C WITH PULL STRINGS ONLY STUBBED UP AND CAPPED FOR FUTURE CREW QUARTERS BUILDING. COORDINATE WITH CIVIL PRIOR TO ROUGH-IN.
- ⑤ CONTRACTOR SHALL PROVIDE 2" C WITH PULL STRINGS ONLY TO 8-1/2"X6-1/2"X6" HANDHOLE LOCATED AT FUTURE CREW QUARTERS BUILDING SITE FOR FUTURE TEL/DATA LINES. COORDINATE WITH CIVIL PRIOR TO COMMENCEMENT OF WORK.

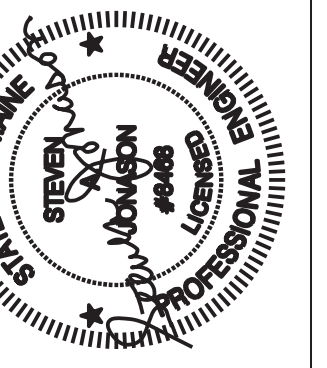


POWER PLAN
SCALE: 3/16" = 1'-0"

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David Matero
Architecture



STEVEN JONASON
ME 8468
PE NUMBER
2021.11.18
DATE

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	SAJ						

Power Plan

SHEET NUMBER
E2.1

GENERAL NOTES

- NOT ALL SYMBOLS INDICATED IN THE LEGEND APPEAR ON THE DRAWINGS. COORDINATE WORK ACCORDINGLY. COMPLY WITH SPECIFICATIONS AND NOTES BELOW AS APPLICABLE.
- ALL RECEPTACLES SHALL BE INSTALLED 18" AFF TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.
- MOUNT PANELS IN RESIDENTIAL SPACES SO NO CIRCUIT BREAKER HANDLE IS HIGHER THAN 44" AFF.
- ALL WIRING SHALL BE COPPER UNLESS DESIGNATED AS "AL." UNLESS OTHERWISE NOTED - ALL WIRING SHALL BE 2*12 AWG AND #12 EQUIPMENT GROUNDING CONDUCTOR HOMERUNS FED FROM A 20A-1P, 120V CIRCUIT IN EXCESS OF 70' SHALL BE #10 AWG.
- CONNECT BATTERY BACKED EMERGENCY AND EXIT LIGHTING TO NEAREST LIGHTING CIRCUIT AHEAD OF ANY SWITCHING. CONNECT REMOTE HEADS WITH #10 AWG COPPER CONDUCTORS. AC EXIT FIXTURES SHALL BE CONNECTED TO NEAREST EMERGENCY CIRCUIT OR AS INDICATED.
- TEST ALL EMERGENCY LIGHTING UNITS FOR PROPER OPERATION OF LAMPS AND BATTERIES.
- SEE MECHANICAL PLAN FOR HVAC UNITS, PUMPS AND FANS CONTROLLED BY THERMOSTATS (PROVIDED BY ATC CONTRACTOR).
- FUSES AND OVERLOAD UNITS FOR MOTORS SHALL BE SIZED BASED ON ACTUAL MOTOR NAMEPLATE DATA AND IN ACCORDANCE WITH NEC. CIRCUIT BREAKERS FOR MOTORS ARE SUPPLIED AT MAX VALUE PER NEC (2.5 x FLA). SIZE IN THE FIELD IN ACCORDANCE WITH MFR RECOMMENDATION.
- ALL WORK SHALL COMPLY WITH NFPA70, NFPA72, NFPA101 & ALL FEDERAL, STATE & LOCAL REGULATIONS.
- ALL PENETRATIONS THROUGH FLOORS, RATED WALLS AND PARTITIONS SHALL BE SEALED WITH UL APPROVED FIRE SEALANT MATERIAL TO MAINTAIN FIRE RATING FOR THE SEPARATION.
- ALL ENCLOSURES, CONDUIT BODIES AND THEIR COVERS CONTAINING FIRE ALARM SYSTEM CONDUCTORS SHALL BE PAINTED RED.
- AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED WITH ALL FEEDERS AND BRANCH CIRCUITS. SIZE IN ACCORDANCE WITH NFPA 70 ARTICLE 250.
- PROVIDE TWO BALLASTS FOR EACH FIXTURE INDICATED AS REQUIRING DUAL LEVEL SWITCHING. ONE BALLAST TO CONTROL OUTER LAMPS AND THE SECOND BALLAST TO CONTROL INNER LAMPS).
- COORDINATE INSTALLATION OF VOICE/DATA OUTLETS WITH OWNER, MIS OR COMMUNICATIONS CONTRACTOR.
- LOCATE DISCONNECTS AT EQUIPMENT AS REQUIRED BY MANUFACTURER. LOCATIONS ON DRAWINGS ARE APPROXIMATE.
- OPERATE ALL FLUORESCENT AND METAL HALIDE LAMPS FROM INITIAL INSTALLATION FOR 100 HOURS AT FULL OUTPUT (NO DIMMING) TO SEASON LAMPS AND STABILIZE LAMP COLOR.
- PROVIDE RISER OR PLENUM RATED CABLES ABOVE SUSPENDED CEILING.
- THE CONTRACTOR SHALL SET ALL ELECTRONIC BREAKERS TO SPECIFIED TRIP SETTINGS BEFORE ENERGIZING EQUIPMENT.
- PROVIDE EXPANSION FITTINGS FOR ALL UNDERGROUND RACEWAYS ENTERING ENCLOSURES ATTACHED TO FIXED STRUCTURES.
- OUTDOOR RECEPTACLE COVERS SHALL COMPLY WITH NFPA 70 - ARTICLE 406.9.
- ALL CONDUCTOR INSULATION FOR BUILDING WIRE SHALL BE THWN/THHN UNLESS NOTED OTHERWISE.
- PROVIDE LABEL ON SERVICE EQUIPMENT INDICATING AVAILABLE SHORT CIRCUIT CURRENT OBTAIN VALUES FROM ENGINEER.
- PROVIDE ARC FAULT LABELS PER NFPA 70-ARTICLE 110.24
- IF BUILDING REQUIRES TWO SERVICE ENTRANCES, PROVIDE SIGNS PER NFPA 70-230.
- OUTLETS INSTALLED IN FIRE RATED WALLS BACK TO BACK SHALL BE SEPARATED BY 24" MINIMUM OR BE PROTECTED WITH "PUTTY PADS" PER 2009 INTERNATIONAL BUILDING CODE SECTION 713.3.2
- PROVIDE AIR VAPOR BARRIER BOXES FOR WIRING DEVICES IN EXTERIOR WALLS AND INTERIOR SOUND CONTROL WALLS BETWEEN RESIDENT ROOMS. INSTALL PER MANUFACTURER'S INSTRUCTIONS. PROVIDE LESSCO MODEL NUMBER: VAPORBOX
- MINIMUM WIRE SIZE ON ALL BRANCH CIRCUITS SHALL BE #12.
- PROVIDE SIGN AT SERVICE ENTRANCE EQUIPMENT INDICATING TYPE AND LOCATION OF EMERGENCY GENERATOR PER NEC 700.7.
- PROVIDE ELECTRICAL SUPPLY FOR FUTURE RADON FANS IN AREA OF ALL FUTURE RADON FAN LOCATIONS.

ABBREVIATIONS

- | | | | |
|------|---|--------|---|
| A | AMP | LTG | LIGHTING |
| AC | ALTERNATING CURRENT, ABOVE COUNTER | LSIG | LONG TIME SHORT TIME INSTANTANEOUS GROUND FAULT CIRCUIT BREAKER TRIP FUNCTIONS AS INDICATED |
| ADA | AMERICANS WITH DISABILITIES ACT | MCC | MOTOR CONTROL CENTER |
| AF | AMP FRAME | MCCB | MOLDED CASE CIRCUIT BREAKER |
| AFCI | ARC FAULT CIRCUIT INTERRUPTER | MCB | MAIN CIRCUIT BREAKER |
| AFB | ABOVE FINISHED FLOOR | MDP | MAIN DISTRIBUTION PANEL |
| AFG | ABOVE FINISHED GRADE | MH | MANHOLE |
| AIC | AMPERES INTERRUPTING CAPACITY | MIS | MANAGEMENT INFORMATION SYSTEM |
| AL | ALUMINUM | MLO | MAIN LUGS ONLY |
| AT | AMP TRIP | MTS | MANUAL TRANSFER SWITCH |
| ATC | AUTOMATIC TEMPERATURE CONTROL | NC | NORMALLY CLOSED OF NURSE CALL |
| ATS | AUTOMATIC TRANSFER SWITCH | NEC | NATIONAL ELECTRICAL CODE |
| AWG | AMERICAN WIRE GAUGE | NFPA | NATIONAL FIRE PROTECTION ASSOCIATION |
| BLDG | BUILDING | NL | NIGHT LIGHT |
| C | CONDUIT | NO | NORMALLY OPEN |
| CB | CIRCUIT BREAKER | NO. | NUMBER |
| CI | CAST IRON | OL | OVERLOAD |
| CKT | CIRCUIT | P | POLE |
| CL | CENTERLINE | PA | PUBLIC ADDRESS |
| CMP | CENTRAL MAINE POWER (ELECTRIC UTILITY) | PB | PUSH BUTTON |
| CMU | CONCRETE MASONRY UNIT | PF | POWER FACTOR |
| CT | CURRENT TRANSFORMER | PH | PHASE |
| CONC | CONCRETE | PNL | PANEL |
| CS | CARBON STEEL | TP1-2 | TELE-POWER POLE - POLE AND CIRCUIT NUMBER AS INDICATED |
| CU | COPPER | PSNH | PUBLIC SERVICE OF NEW HAMPSHIRE (ELECTRIC UTILITY) |
| CUH | CABINET UNIT HEATER | PT | POTENTIAL TRANSFORMER |
| DL | DAMP LOCATION | PVC | POLYVINYL CHLORIDE |
| EC | ELECTRICAL CONTRACTOR | RL | ELECTRICAL EQUIPMENT TO BE RELOCATED |
| EF | EXHAUST FAN | RM | ELECTRICAL EQUIPMENT TO REMAIN |
| ERL | EXISTING RELOCATE | RSC | RIGID STEEL CONDUIT |
| ERV | EXISTING REMOVE | RTU | ROOF TOP UNIT |
| ETR | EXISTING TO REMAIN | RV | ELECTRICAL EQUIPMENT TO REMOVE |
| EUH | ELECTRIC UNIT HEATER | RVNR | REDUCED VOLTAGE, NON-REVESING |
| EWC | ELECTRICAL WATER COOLER | SB | SMART BOARD |
| FACP | FIRE ALARM CONTROL PANEL | SF | SUPPLY FAN |
| FAPS | FIRE ALARM PULL STATION | SLD | SINGLE LINE DIAGRAM |
| FRP | FIBER REINFORCED PLASTIC | SM | MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE, MOUNTED AT UNIT |
| FVNR | FULL VOLTAGE, NON-REVERSING FURNISHED WITH UNIT | SS | SOLID STATE |
| FWU | FURNISHED WITH UNIT | SWBD-1 | SWITCHBOARD NUMBER AS DESIGNATED |
| DC | DIRECT CURRENT | TC | TIME CLOCK |
| GFI | GROUND FAULT INTERRUPTER | TS | TRANSFER SWITCH |
| GND | GROUND | T&B | TOP AND BOTTOM |
| HID | HIGH INTENSITY DISCHARGE | TYP | TYPICAL |
| HOA | HAND-OFF-AUTOMATIC | UG | UNDERGROUND |
| HP | HORSEPOWER | V | VOLT |
| HPS | HIGH PRESSURE SODIUM | VA | VOLT-AMPERE |
| HZ | HERTZ | VFD | VARIABLE FREQUENCY DRIVE |
| ICB | INSULATED CASE CIRCUIT BREAKER | W | WATT |
| JB | JUNCTION BOX | W/ | WITH |
| KAIC | THOUSAND AMP INTERRUPTING CAPACITY | WP | WEATHERPROOF |
| KCML | THOUSAND CIRCULAR MIL | XFMR | TRANSFORMER |
| KV | THOUSAND VOLTS | XP | EXPLOSION PROOF |
| KVA | THOUSAND VOLT-AMPS | 3PH | THREE PHASE |
| KW | THOUSAND WATTS (KILOWATT) | 4W | FOUR WIRE |
| L | LIGHTING CONTACTORS | 3W | THREE WIRE |
| LCP | LIGHTING CONTROL PANEL | | |
| LED | LIGHT EMITTING DIODE | | |
| LP | LIGHTING PANELBOARD | | |

SYMBOL LEGEND

- SURFACE MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- RECESSED MOUNTED POWER PANEL, SEE PANEL SCHEDULES FOR RATING
- Ⓜ ELECTRIC MOTOR DRIVEN EQUIPMENT, HP SHOWN
- H, DS, DW Ⓜ JUNCTION BOX, "H" DENOTES RANGE HOOD, "DS" DENOTES DISPOSAL UNIT, "DW" DENOTES DISHWASHER
- SM MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD DEVICE MOUNTED AT UNIT
- DISCONNECT SWITCH, SIZE AND NUMBER OF POLES AS INDICATED ON DRAWING. PROVIDED BY EC UNLESS NOTED OTHERWISE. PROVIDE FUSES WHERE RECOMMENDED BY MANUFACTURER.
- ☒ COMBINATION MOTOR STARTER/ DISCONNECT SWITCH WITH AUXILIARY CONTACTS AND HAND-OFF-AUTO SWITCH AND RED RUN LIGHT. PROVIDED AND INSTALLED BY EC UNLESS NOTED OTHERWISE.
- VFD VARIABLE FREQUENCY DRIVE, PROVIDED BY MC, INSTALLED AND WIRED BY EC
- Ⓜ DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- Ⓜ QUAD RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- Ⓜ SPECIAL PURPOSE RECEPTACLE FOR EQUIPMENT CONNECTION - COORDINATE LOCATION AND TYPE OF CONNECTION WITH EQUIPMENT BEING SERVED
- Ⓜ GROUND FAULT DUPLEX RECEPTACLE 20A, 125V, TAMPER PROOF WITH MATCHING PLATE FURNISHED W/ OUTLET. FLUSH MOUNTED 45" AFF UNLESS OTHERWISE NOTED.
- REFRIGERATOR DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF AND MATCHING PLATE. MOUNT RECEPTACLE AT 48" AFF.
- Ⓜ DUPLEX RECEPTACLE, 20A, 125V SPEC GRADE GROUNDING TYPE, TAMPER PROOF WITH (2) USB CHARGING PORTS, COLOR BY ARCH. MOUNT 18" AFF UNLESS NOTED OTHERWISE.
- Ⓜ FLUSH FLOOR MOUNTED DUPLEX RECEPTACLE - 20A, 125V SPEC GRADE GROUNDING TYPE. "CL" DENOTES CEILING MOUNTED
- Ⓜ RANGE OUTLET 50 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- Ⓜ DRYER OUTLET 30 AMP, 250 VOLT, GROUNDING TYPE FLUSH MOUNTED 18" AFF
- RACEWAY & WIRING OR MC CABLE RUN CONCEALED IN WALLS/CEILING
- - - - RACEWAY & WIRING RUN EXPOSED
- RACEWAY & WIRING RUN CONCEALED UNDER FLOOR OR BURIED 30" BELOW FINISH GRADE
- HOME RUN TO PANEL, WITH PANEL AND CIRCUIT NUMBER
- Ⓜ CABLE TV JUNCTION BOX "CTV", SIZE AS REQUIRED BY CABLE UTILITY
- TV TV OUTLET LOCATION, CABLE AND JACKS BY EC
- TEMPERATURE CONTROL PANEL, PROVIDED BY MC WIRED BY EC
- PUSHBUTTON FOR ELECTRICALLY OPERATED DOOR, FURN W/ DOOR OPERATOR, WIRED BY EC
- Ⓜ DOOR PUSHBUTTON-DOORBELL
- Ⓜ DOOR ELECTRIC STRIKE
- Ⓜ DOOR CHIME WITH STROBE-ADA COMMUNICATIONS REQUIREMENT
- Ⓜ LIGHTING FIXTURES, CAPITAL LETTERS DENOTE TYPE PER LIGHTING FIXTURE SCHEDULE. LOWER CASE LETTERS INDICATE SWITCH CONTROL. "ob" INDICATES INBOARD LAMPS CONTROLLED BY OUTBOARD SWITCHED "a" AND "b". DIAGONAL OR "NL" INDICATES NIGHT LIGHT (UNSWITCHED)
- Ⓜ SELF CONTAINED EMERGENCY LIGHT W/2 HEADS DUAL-LITE (LED) MODEL LZ25N-03L, 25 WATTS FOR 90 MINUTES, COLOR BY ARCHITECT
- BATT EMERGENCY LIGHTING BATTERY PACK DUAL-LITE No LM130-12V1-0 SELF-DIAGNOSTIC
- Ⓜ INTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No CPRD 1203L, COLOR BY ARCHITECT
- Ⓜ EXTERIOR REMOTE HEAD DUAL-LITE (LED) MODEL No OCRD 1203L COLOR BY ARCHITECT
- Ⓜ EXIT LIGHT FIXTURE, UNSWITCHED, DUAL-LITE LX-U-R-W-E OR APPROVED EQUAL
- Ⓜ EXIT/ EMERGENCY LIGHT COMBO, DUAL-LITE No EVCU-R-D4-1OR APPROVED EQUAL COLOR BY ARCHITECT
- Ⓜ SECURITY CAMERA LOCATION, COORDINATE AND PROVIDE DUPLEX RECEPTACLE, DATA AND CONDUIT PER MANUFACTURERS RECOMMENDATIONS
- DT PIR CEILING MOUNTED MOTION SENSOR: SENSORS AND RELAYS TO CONTROL CIRCUITS IN SPACES INDICATED. DEVICES SHALL PROVIDE FULL COVERAGE IN AREAS INSTALLED. DT INDICATES DUAL TECHNOLOGY PIR INDICATED PASSIVE INFRARED TECHNOLOGY
- SMS WALL MOUNTED SWITCH MOTION SENSOR. MOUNT AT 48" AFF UNLESS OTHER WISE NOTED
- S SINGLE POLE SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- S PL SWITCH WITH PILOT LIGHT, SWITCH SHALL BE PROVIDED W/ ENGRAVED NAMEPLATE IDENTIFYING USE
- S RF REMOTE RANGE HOOD FAN SWITCH, CONNECT TO HOOD FAN THRU HOOD JUNCTION BOX.
- S RL REMOTE RANGE HOOD LIGHT SWITCH, CONNECT TO HOOD LIGHT THRU JUNCTION BOX.
- S B BURNER SAFETY SWITCH, PROVIDE WITH RED PLATE, MOUNTED 72" AFF
- D SINGLE POLE DIMMER SWITCH, 120V, 20A, SPEC GRADE, GROUNDING TYPE, MOUNT 48" AFF, 3-3-WAY, 4-4-WAY, LOWER CASE LETTER INDICATES FIXTURE OR CONTROLLED LOAD.
- PC PHOTOCELL
- LC LIGHTING CONTACTOR
- TC TIMECLOCK
- ▼ TELEPHONE/DATA DUAL JACK, MOUNT 18" AFF. RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFORMATION
- ▼ DATA JACK, RUN TWO CABLES BACK TO TBB. SEE SPECIFICATIONS FOR FURTHER INFO
- CL FLUSH FLOOR MOUNTED TELEPHONE/DATA DUAL JACK, RUN TWO CABLES BACK TO TBB. "CL" DENOTES CEILING MOUNTED
- ▼ TELEPHONE JACK, MOUNT 18" AFF UNLESS NOTED OTHERWISE, RUN ONE CABLE BACK TO TBB.
- TELEPHONE BACK BOARD
- W WIFIROUTER, RUN CABLE BACK TO TBB OR IT ROOM. MOUNT ABOVE CEILING, "W" DENOTES WALL MOUNTED AT 72" AFF
- Ⓜ INTERCOM PANEL IN UNIT
- Ⓜ INTERCOM PANEL AT RECEPTION OR MAIN ENTRY
- Ⓜ MEDIA PANEL OR WIRING BOX FOR LOW VOLTAGE CONNECTIONS WITHIN TENANT UNIT. RUN CAT 6 CABLE FROM EACH UNIT MEDIA PANEL LOCATION BACK TO TBB
- Ⓜ CARD READER LOCATION: PROVIDE BOX AND 3/4" CONDUIT TO NEAREST LOCATION ABOVE SUSPENDED CEILING. PROVIDE 120V DOOR STRIKE POWER FROM NEAREST RECEPTACLE CIRCUIT.
- Ⓜ FIRE ALARM CONTROL PANEL WITH DEDICATED TELEPHONE JACK
- Ⓜ FIRE ALARM ANNUNCIATOR PANEL
- Ⓜ FIRE EXTINGUISHER ELECTRONIC MONITOR SHALL BE ACCOMPLISHED THROUGH USE OF AN ADDRESSABLE INTERFACE DEVICE AND SHALL PROVIDE INPUT TO THE FACP
- Ⓜ FIRE ALARM AUDIO/VISUAL, MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATING. "MH" DENOTES MINIORN, "CL" DENOTES CEILING MOUNTED. NO DESIGNATION EQUALS 15cd
- Ⓜ FIRE ALARM PULL STATION, MOUNT 48" AFF
- Ⓜ FIRE ALARM VISUAL STROBE ONLY, FLUSH MOUNT 6'-8" AFF, NUMBER DENOTES CANDELA RATINGS. "CL" DENOTES CEILING MOUNTED
- Ⓜ SYSTEM CONNECTED SMOKE / CARBON MONOXIDE DETECTOR, PHOTOELECTRIC TYPE
- 155 Ⓜ SYSTEM CONNECTED FIXED TEMPERATURE HEAT DETECTOR
- Ⓜ SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED.
- ER Ⓜ SMOKE DETECTOR, PHOTOELECTRIC TYPE, SYSTEM CONNECTED. "ER" DENOTES ELEVATOR RECALL
- SB Ⓜ SYSTEM CONNECTED SMOKE DETECTOR, PHOTOELECTRIC TYPE, WITH SOUNDER BASE
- Ⓜ CARBON MONOXIDE DETECTOR
- Ⓜ DUCT SMOKE DETECTOR & TEST STATION
- Ⓜ FIRE/SMOKE DAMPER, SUPPLIED AND INSTALLED BY MECHANICAL CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING CONNECTIONS AND FIRE ALARM DUCT SMOKE DETECTORS, ADDRESSABLE MODULES AND PROGRAMMING.
- Ⓜ SPRINKLER SYSTEM FLOW SWITCH } SUPPLIED BY SPRINKLER CONTRACTOR
- Ⓜ SPRINKLER SYSTEM TAMPER SWITCH } WIRED BY EC, VERIFY LOCATIONS WITH SPRINKLER CONTRACTOR.
- M MAGNETIC DOOR HOLD
- N NURSE CALL BASE STATION
- RS NURSE CALL PULL STATION
- Ⓜ NURSE CALL ANNUNCIATOR LIGHT
- WP WP DENOTES WEATHERPROOF CONSTRUCTION
- RP RP DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REPLACED
- RM RM OR ETR DENOTES EXISTING ELECTRICAL EQUIPMENT TO REMAIN
- RL RL DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE RELOCATED
- RV RV DENOTES EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED

LIGHT FIXTURE SCHEDULE

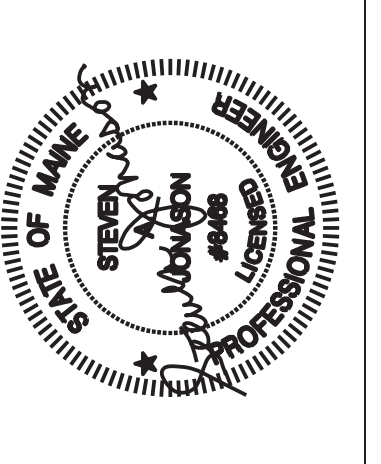
TYPE	MANUFACTURER AND MODEL NUMBER	LAMP INFO	REMARKS
A	COLUMBIA LIGHTING CAT No LXEW4-35H-FA-EU	178W/3500K LED	4' SUSPENDED LINEAR HIGH BAY w/FROSTED ACRYLIC IMPACT RESISTANT LENS
B	LITHONIA LIGHTING CAT No DSXW2 LED 30C 1000 40K TFTM 120 PE DD***(finish color)	109W/4000K LED	EXTERIOR BUILDING MOUNTED WALLPACK w/INTEGRAL PHOTOCELL LOCATED AT OVERHEAD DOORS AND SIDES OF BLDG
C	LITHONIA LIGHTING CAT No DSXW1 LED 10C 530 40K TFTM 120 DD***(finish color)	20W/4000K LED	EXTERIOR BUILDING MOUNTED WALLPACK w/INTEGRAL PHOTOCELL LOCATED AT MAN DOORS
D	LITHONIA LIGHTING FMMCL18 840 S1	14W/4000K LED	18" WALL MOUNTED FIXTURE W/PULLCHAIN. CENTERED ABOVE ELEC CLOSET DOOR

STATE OF MAINE DOT
 Sherman Truck Storage Garage
 12 Qualey Drive, Sherman, Maine
 WIN 02524.00

TRILLIUM
 ENGINEERING GROUP
 189 MAIN STREET SUITE 200
 YARMOUTH, ME 04096

David Matero
 Architecture
 47 Centre Street
 Bath, Maine 04530
 207.339.4078
 info@davidmatero.com

BENNETT
 ENGINEERING
 MECHANICAL • ELECTRICAL
 (207) 865-9475



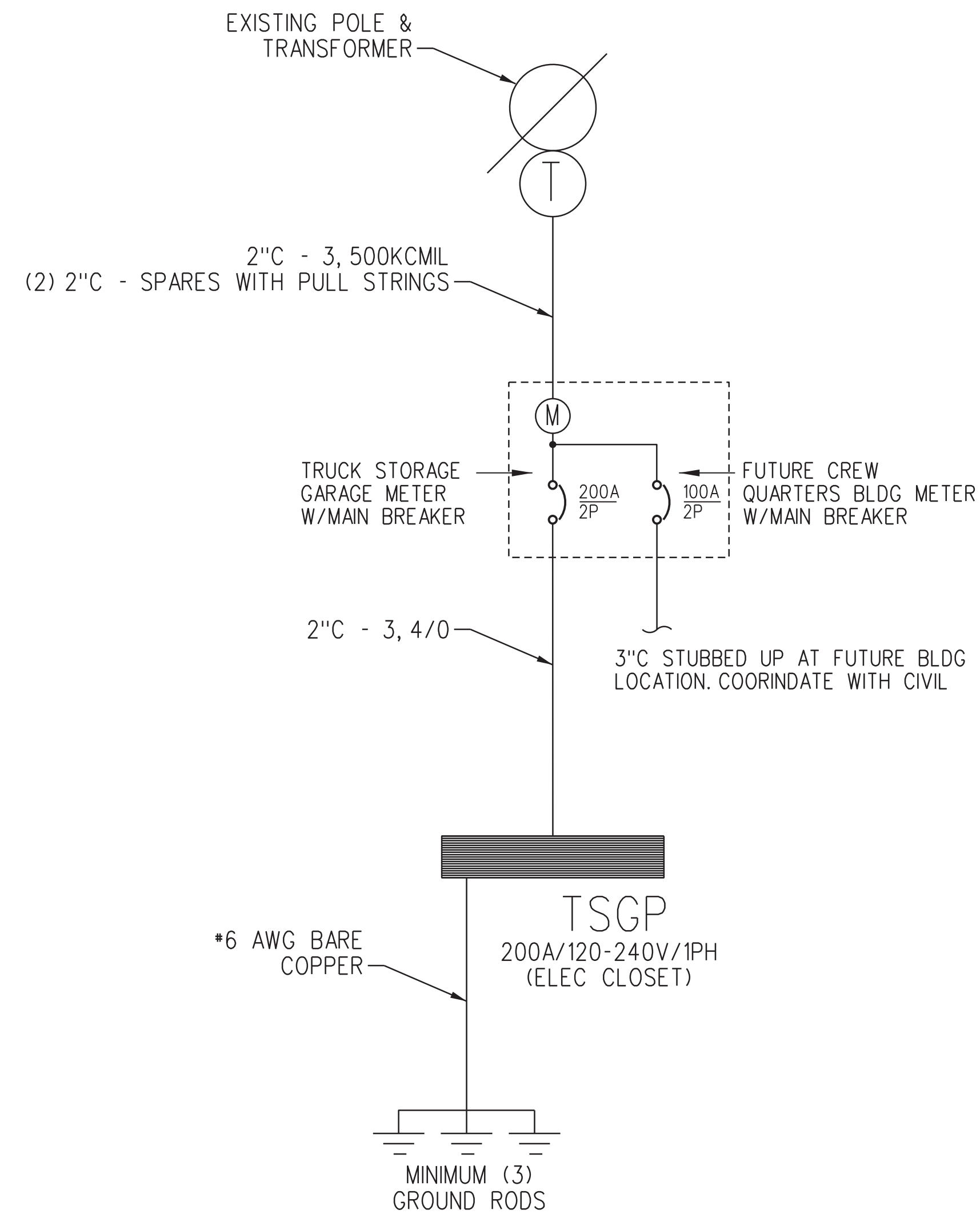
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Electrical Notes,
 Legend & Details

SHEET NUMBER

E3.1



ONE LINE DIAGRAM

SCALE: NONE

PANEL TSGP (GARAGE ELEC CLOSET) 120/240 1PH 4W 200 AMP MLO 42K AIC NEMA TYPE 1 (SURFACE)

CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA	CKT #	LOAD DESCRIPTION	AT	P	CA	DF	DA	VA
1	LIGHTS: SOUTHWEST END OF BUILDING	30	1	22	0.80	18	2131	2	LIGHTS: NORTHEAST END OF BUILDING	30	1	22	0.80	18	2131
3								4							
5	PF-1 CONTROLLER #1	20	2	10	1.00	10	1200	6	PF-1 CONTROLLER #2	20	2	10	1.00	10	1200
7	RECEPTS: NORTHEAST	20	1	8	0.50	4	450	8	GFUH-1: NORTHEAST (NEAR ELEC CLOSET)	20	1	11	1.00	11	1320
9	GFUH-2: SOUTHEAST	15	1	11	1.00	11	1320	10	FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.)	20	2		0.50	0	0
11	FUTURE EQUIPMENT: SOUTHEAST (CONFIRM POWER REQ.)	20	2		0.50	0	0	12	FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)	20	2		0.50	0	0
13								14	EXISTING RELOCATED COMPRESSOR (CONFIRM POWER REQ.)	20	1		0.50	0	0
15	MOTOR OPERATED DAMPERS (MODs) AT L-1 & L-2	20	1		0.50	0	0	16	SPARE	20	1			0	0
17								18	RECEPTS: SOUTHWEST	20	1	12	0.50	6	720
19	EF-2	15	2	7	1.00	7	828	20	GFUH-3: SOUTHWEST	15	1	8	1.00	8	900
21	GFUH-4: NORTHWEST	15	1	8	1.00	8	900	22	FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)	20	2		0.50	0	0
23	FUTURE EQUIPMENT: SOUTHWEST (CONFIRM POWER REQ.)	20	2		0.50	0	0	24							
25								26	MOTOR OPERATED DAMPERS (MODs) AT L-3 & L-4	20	1		0.50	0	0
27	EF-1	20	1		1.00	0	0	28	CO2/NO2 DETECTION SYSTEM: NORTHEAST	20	1		0.50	0	0
29	OVERHEAD DOOR OPERATOR: NORTH	25	1		0.20	0	0	30	CO2/NO2 DETECTION SYSTEM: SOUTHWEST	20	1		0.50	0	0
31	OVERHEAD DOOR OPERATOR: SOUTH	25	1		0.20	0	0	32	FILTER TANK CONTROL PANEL	20	1		1.00	0	0
33	EXTERIOR RECEPTS: NORTH/ EAST SIDE OF BLDG	20	1	5	0.50	2	270	34	EXTERIOR RECEPTS: SOUTHWEST SIDE OF BLDG	20	1	6	0.50	3	360
35	RECEPTS: NORTHEAST	20	1	6	0.50	3	360	36							
37	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0	38	FUEL TANK EQUIPMENT (COORD. W/SUPPLIER)	20	2		1.00	0	0
39	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0	40	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0
41	TBB: LEFT RECEPTS	20	1	3	0.50	2	180	42	FUEL TANK EQUIP (COORD. W/SUPPLIER)	20	1		1.00	0	0
43	TBB: RIGHT RECEPTS	20	1	3	0.50	2	180	44							
45	SPARE	20	1			0	0	46	EF-2B	20	1		1.00	0	0
47	SPARE	20	1			0	0	48	SPARE	20	1			0	0
49	SPARE	20	1			0	0	50	SPARE	20	1			0	0
51						0	0	52	SPARE	20	1			0	0
53						0	0	54						0	0
55						0	0	56						0	0
57						0	0	58						0	0
59						0	0	60						0	0
61						0	0	62						0	0
63						0	0	64						0	0
65						0	0	66						0	0
67						0	0	68						0	0
69						0	0	70						0	0
71						0	0	72						0	0

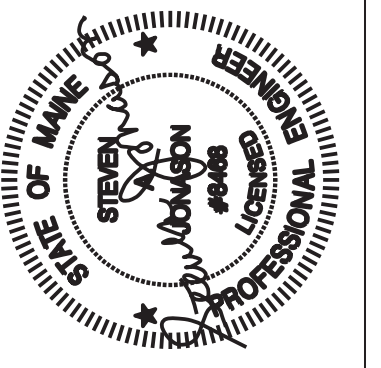
AT - Amp Trip
P - Poles
A - Amps
CA - Connected Amperes
DF - Demand Factor (1 - .1)
DA - Demand Amperes
MLO - Main Lug Only
MCB - Main Circuit Breaker

Pin N

PREPARED FOR:
STATE OF MAINE DOT
Sherman Truck Storage Garage
12 Qualey Drive, Sherman, Maine
WIN 02524.00

TRILLIUM
ENGINEERING GROUP
189 MAIN STREET SUITE 200
YARMOUTH, ME 04295
David Matero
Architecture
47 Centre Street
Bath, Maine 04530
207.339.4278
Info@davidmatero.com

BENNETT
ENGINEERING
MECHANICAL • ELECTRICAL
(207) 865-9475



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2021.11.18
DATE

DATE	BY	DESIGN-DETAILED	CHECKED-REVIEWED	REVISION 1	REVISION 2	REVISION 3	FIELD CHANGES
	CAT						
	SAJ						

One-Line Diagram
& Panel Schedule

SHEET NUMBER

E3.2