

# STATE OF MAINE DEPARTMENT OF TRANSPORTATION



## DIXFIELD MAINTENANCE SALT BUILDING

### SPECIFICATIONS

Design:  
-International Building Code 2009  
-ACI 318-14

### DESIGN LOADING

Live Load ..... Impact of 30,000lb Vehicle  
Ground Snow Load ..... 100psf  
Wind Velocity ..... 100mph  
General ..... Exposure Category 'C', Risk Category I

### MATERIALS

Reinforcing Steel ..... ASTM A615, Grade 60, Epoxy Coated  
Structural Steel:  
All Material (U.N.O.) ..... ASTM A36, Grade 36, Galvanized

### BASIC DESIGN STRESSES

Concrete .....  $f'c = 4,000$  psi  
Reinforcing Steel .....  $f_y = 60,000$  psi

### LIST OF DRAWINGS

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WIN027459.00

<u>PROJECT LOCATION:</u>	547 Main Street Dixfield, Maine 04947
<u>PROGRAM AREA:</u>	Highway Maintenance Program
<u>OUTLINE OF WORK:</u>	Construction of Salt Storage Building

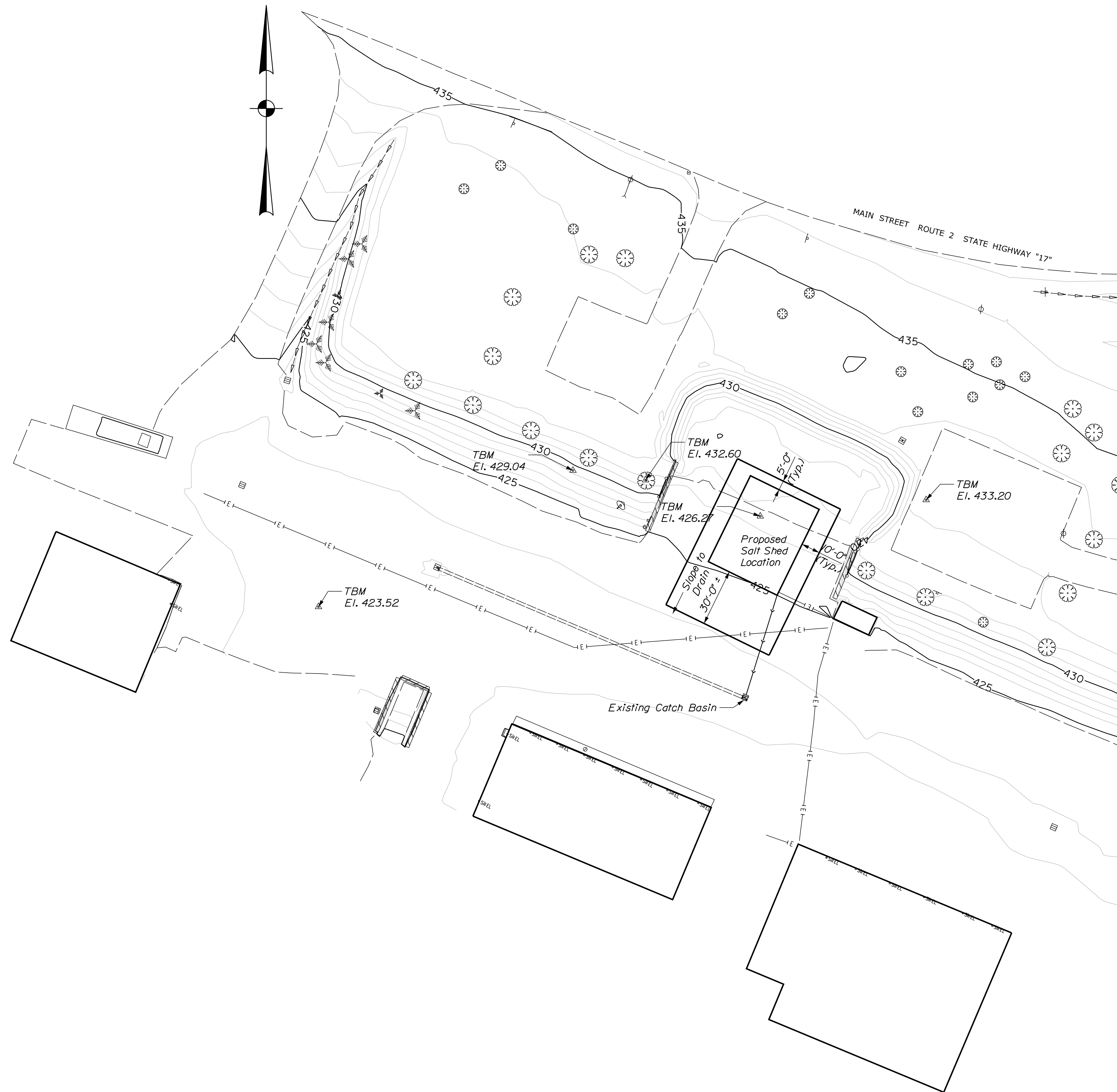
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COMMISSIONER: <i>[Signature]</i>	<i>[Signature]</i>	5-24-23
CHIEF ENGINEER: <i>[Signature]</i>		5-24-2023

SIGNATURE: *[Signature]*  
P.E. NUMBER: 14077  
DATE: DEC 2021

PROJECT INFORMATION	
PROGRAM	
PROJECT MANAGER	P. COBLEY
DESIGNER	CALDERWOOD ENGINEERING
CONSULTANT	
PROJECT RESIDENT	
CONTRACTOR	
PROJECT COMPLETION DATE	

DIXFIELD MAINTENANCE  
SALT BUILDING  
TITLE SHEET

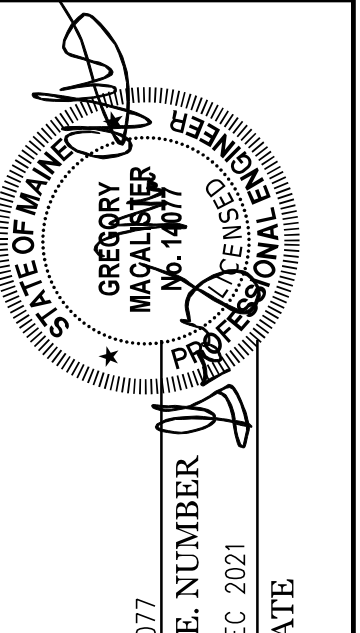
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OF 13



**NOTES:**

- 1.) Pavement Damaged Due To Excavation And Construction Is To Be Replaced By Contractor At No Additional Cost To Maine Dot.
- 2.) Underdrain Termination Will Be Located Approximately 60' from The Southeast Corner Of The Proposed Salt Shed. Underdrain Termination To Be In existing Catch Basin As Shown.
- 3.) Contractor Will Be Required To Excavate, Supply, Install, Backfill And Compact Per National Electrical Code (Nec) Up To 300 Ft. Of Schedule 80, 2"  $\phi$  Conduit. The Actual Location, Orientation, And Placement Of The Conduit Shall Be Determined By The Resident Engineer. The Contractor Will Be Required To Provide And Pull 3 Runs Of 1/0 Aluminum Cable And 1 Run Of #6 Aluminum Ground Cable From The Load Center Of The New Building. Payment For Electrical Supply, Conduit Installation And Related Work Shall Be Considered Incidental To The Salt Shed Building.
- 4.) Payment For Excavation And Backfill, Including Gravel, Shall Be Considered Incidental To Salt Shed Building.
- 5.) During Construction, If It Is Determined That There Is Excavation Material Suitable For Reuse, The Contractor May Use The Excavated Material For Backfill As Approved By The Resident. All Excavated Material Unsuited For Reuse Shall Be Stock Piled On Site For Future Use. Exact Location Of Stock Pile Shall Be Determined In The Field By The Resident.
- 6.) Building Location And Elevations Shown Are Approximate. Exact Location Of Building And Elevations To Be Determined In Field By Resident
- 7.) All Steel Shown In Plans Shall Be Galvanized Unless Noted Otherwise.

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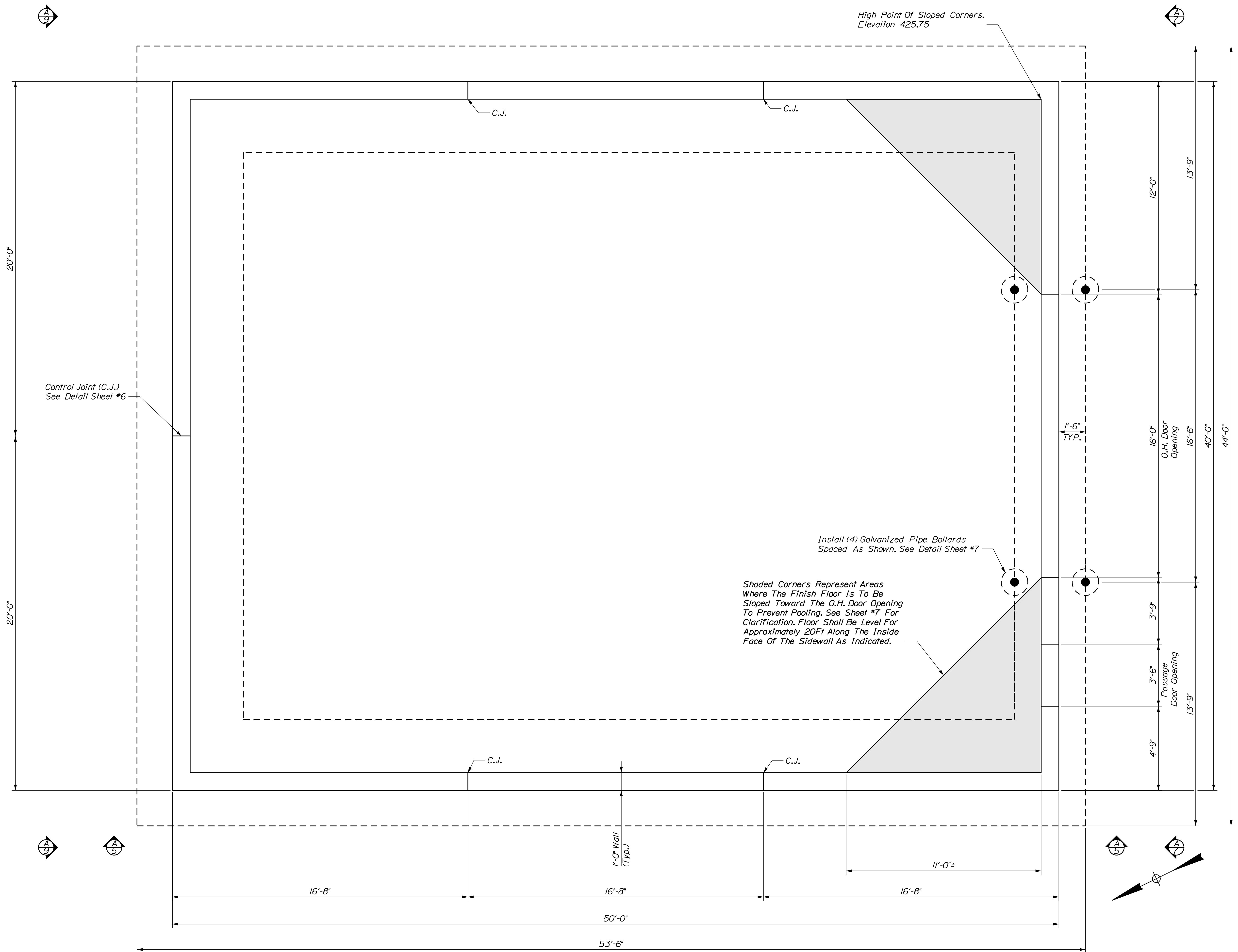


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NOV. 2021	JUH	CHECKED-REVIEWED
	PAC	DESIGN-DETAILED
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		REVISIONS 1
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		REVISIONS 3
		REVISIONS 4
		FIELD CHANGES

**DIXFIELD MAINTENANCE SALT BUILDING**  
**GENERAL PLAN**

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High Point Of Sloped Corners.  
Elevation 425.75

Control Joint (C.J.)  
See Detail Sheet #6

Shaded Corners Represent Areas  
Where The Finish Floor Is To Be  
Sloped Toward The O.H. Door Opening  
To Prevent Pooling. See Sheet #7 For  
Clarification. Floor Shall Be Level For  
Approximately 20Ft Along The Inside  
Face Of The Sidewall As Indicated.

Install (4) Galvanized Pipe Bollards  
Spaced As Shown. See Detail Sheet #7

FOUNDATION PLAN  
3/8" = 1'-0"

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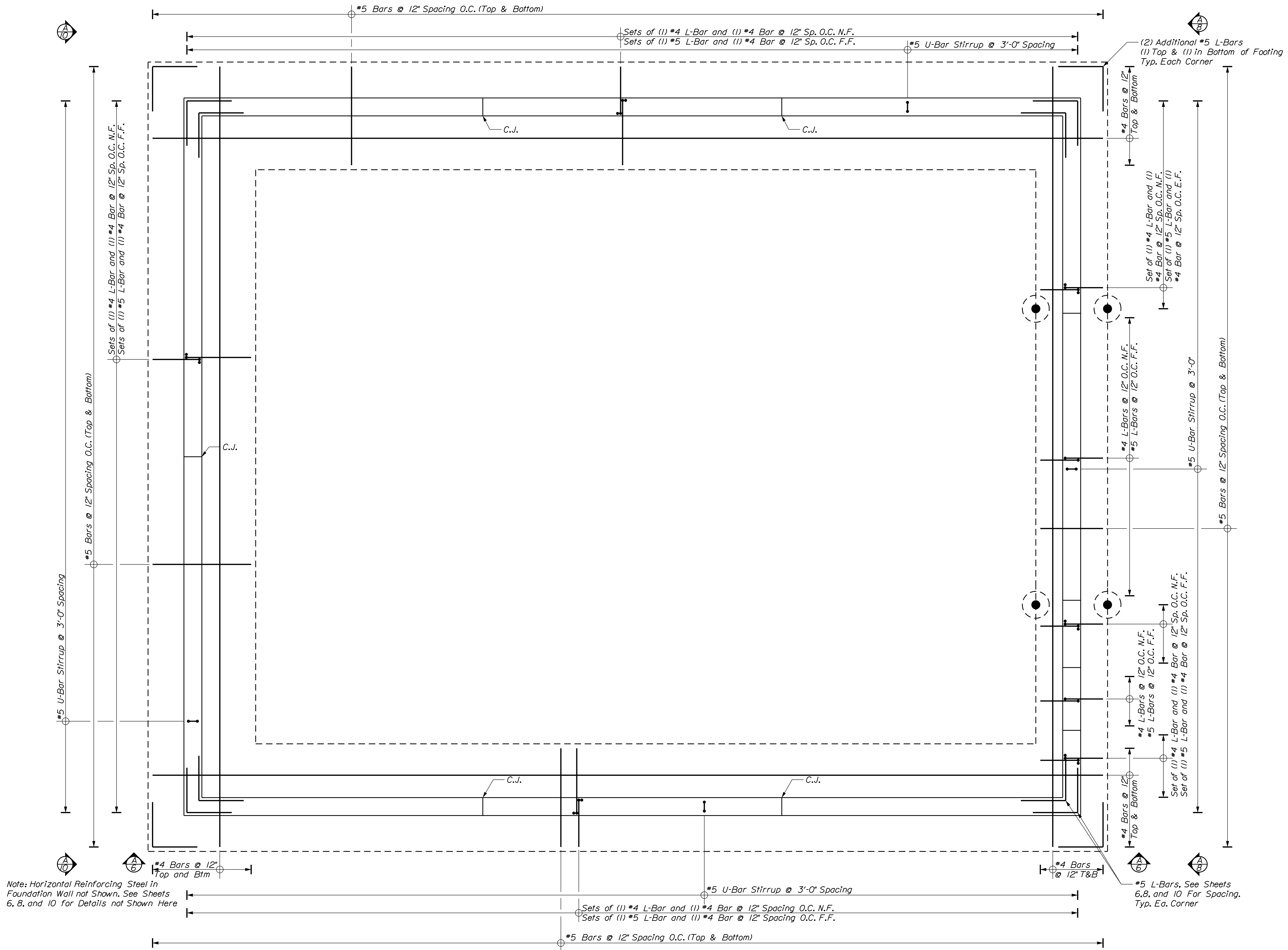
Professional Engineer Seal for Gregory Macomber, License No. 14077, State of Maine. Includes fields for P.E. NUMBER (14077) and DATE (DEC 2021).

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CHECKED-REVIEWED	NOV. 2021	BAC
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DIXFIELD MAINTENANCE  
SALT BUILDING  
FOUNDATION PLAN

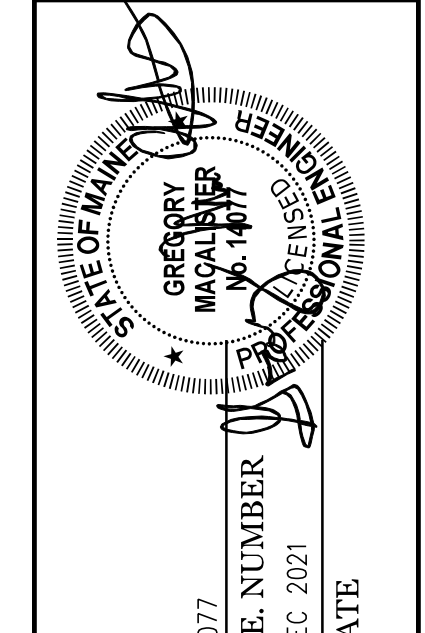
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FOUNDATION PLAN  
 3/8" = 1'-0"

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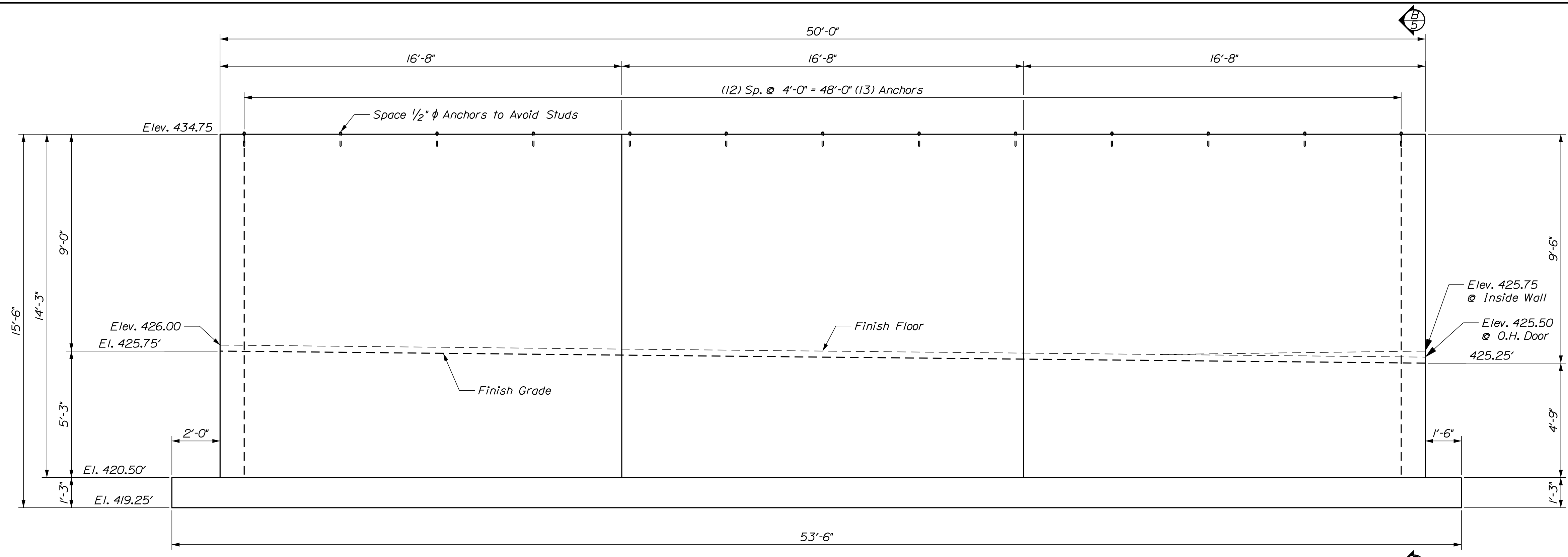
  

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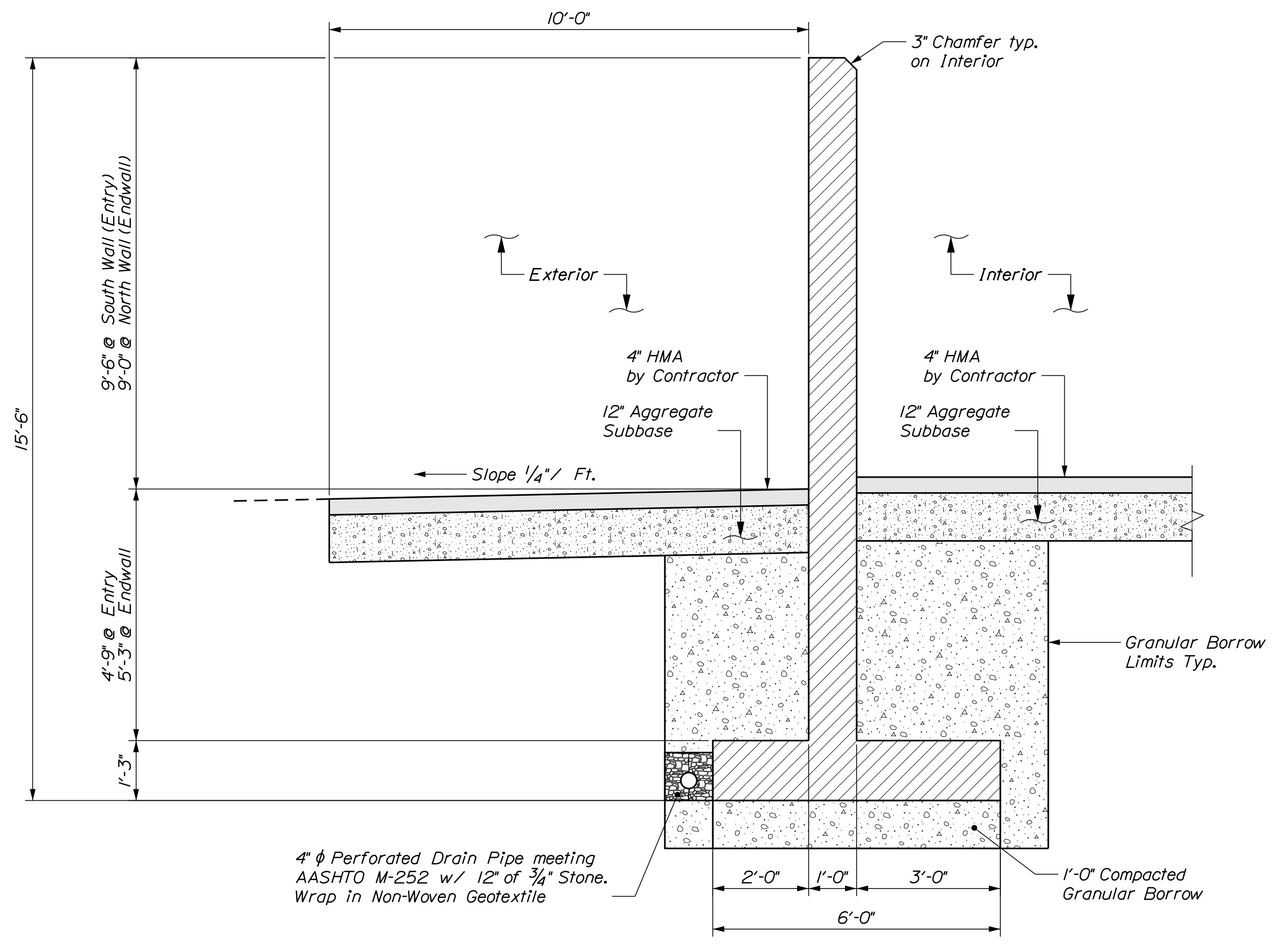
DIXFIELD MAINTENANCE  
 SALT BUILDING  
 FOUNDATION REINFORCING PLAN

SHEET NUMBER  
 4  
 OF 13



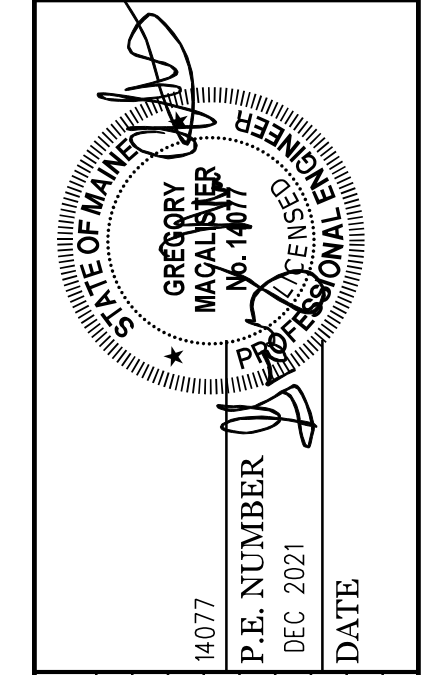


**(A) SIDEWALL ELEVATION**  
5  
3/8" = 1'-0"



**(B) SIDEWALL SECTION**  
5  
1/2" = 1'-0"

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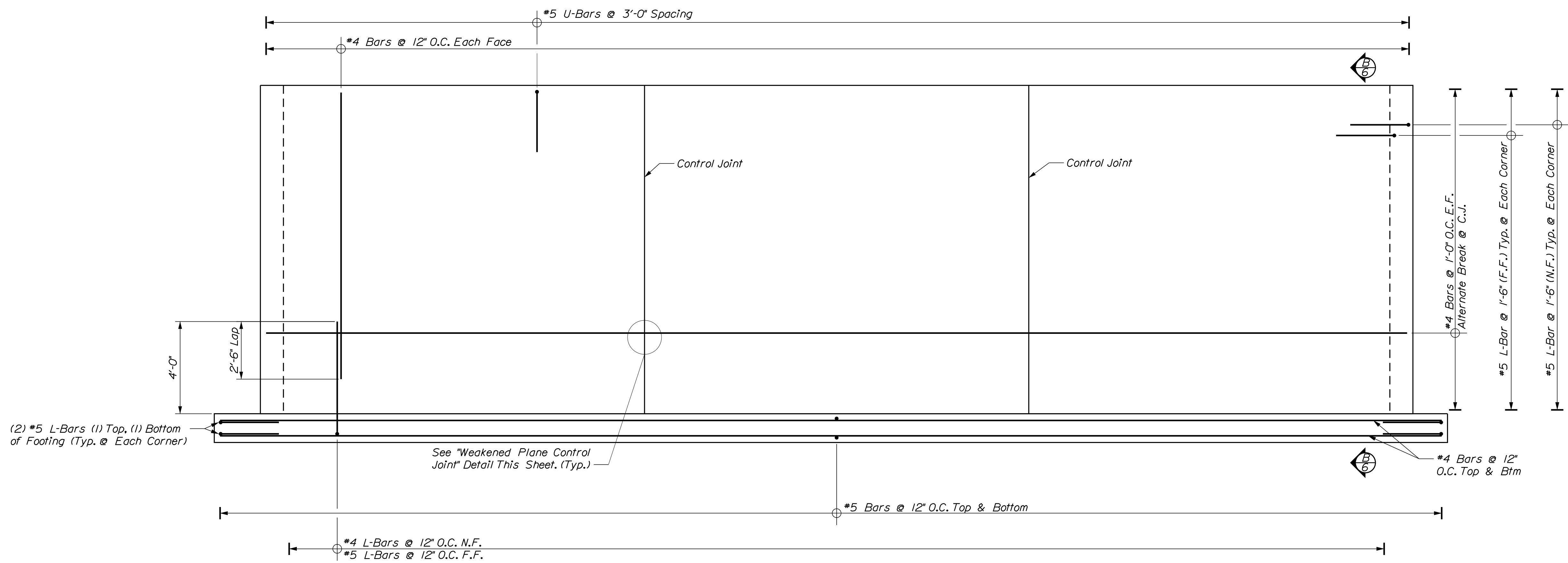
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DIXFIELD MAINTENANCE  
SALT BUILDING

SIDEWALL DETAILS

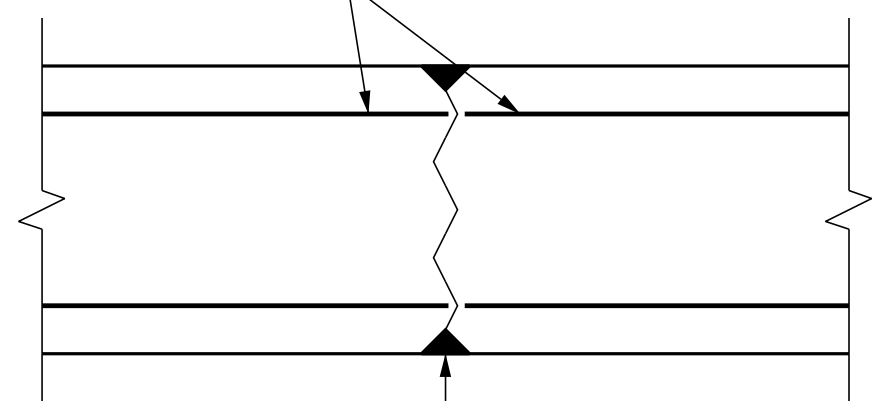
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OF 13





**(A) SIDEWALL REINFORCING ELEVATION**  
 $\frac{3}{8}'' = 1'-0''$

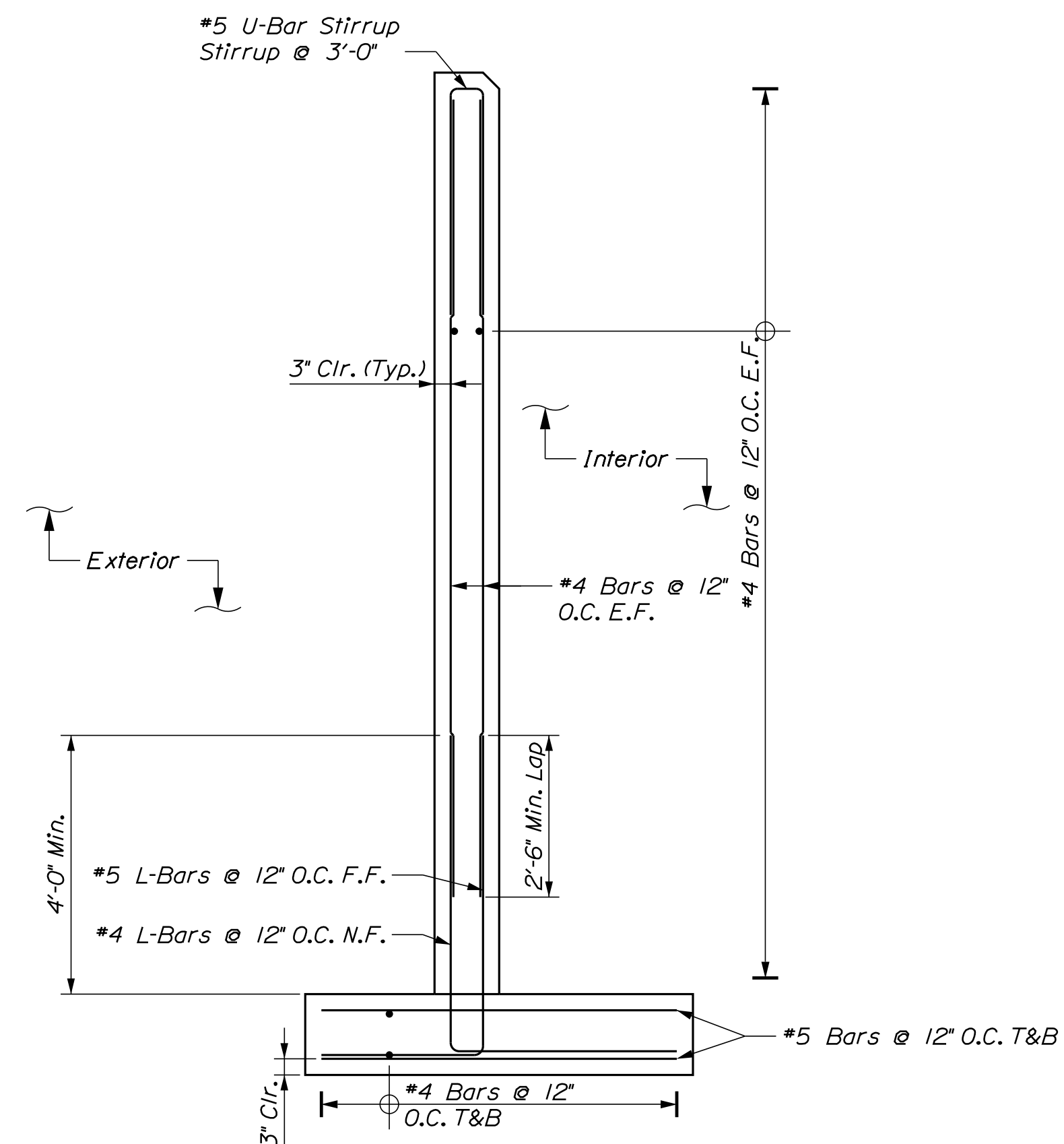
Cut or Butt Every Other Piece of Horizontal Reinforcing Steel @ Control Joint Locations



Install 1" Chamfer on Each Side of Wall Form for Full Height @ Control Joint Locations

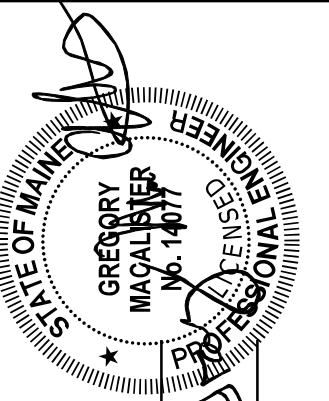
Clean Out Chamfer and Fill Joint Flush W/ Face of Wall Using Sikaflex 1A or Equivalent on the Inside Face of Wall and on the Outside Face From 6" Below Finish Grade to Top of Wall

**WEAKENED PLANE CONTROL JOINT**  
 $\frac{1}{2}'' = 1'-0''$



**(B) SIDEWALL SECTION**  
 $\frac{1}{2}'' = 1'-0''$

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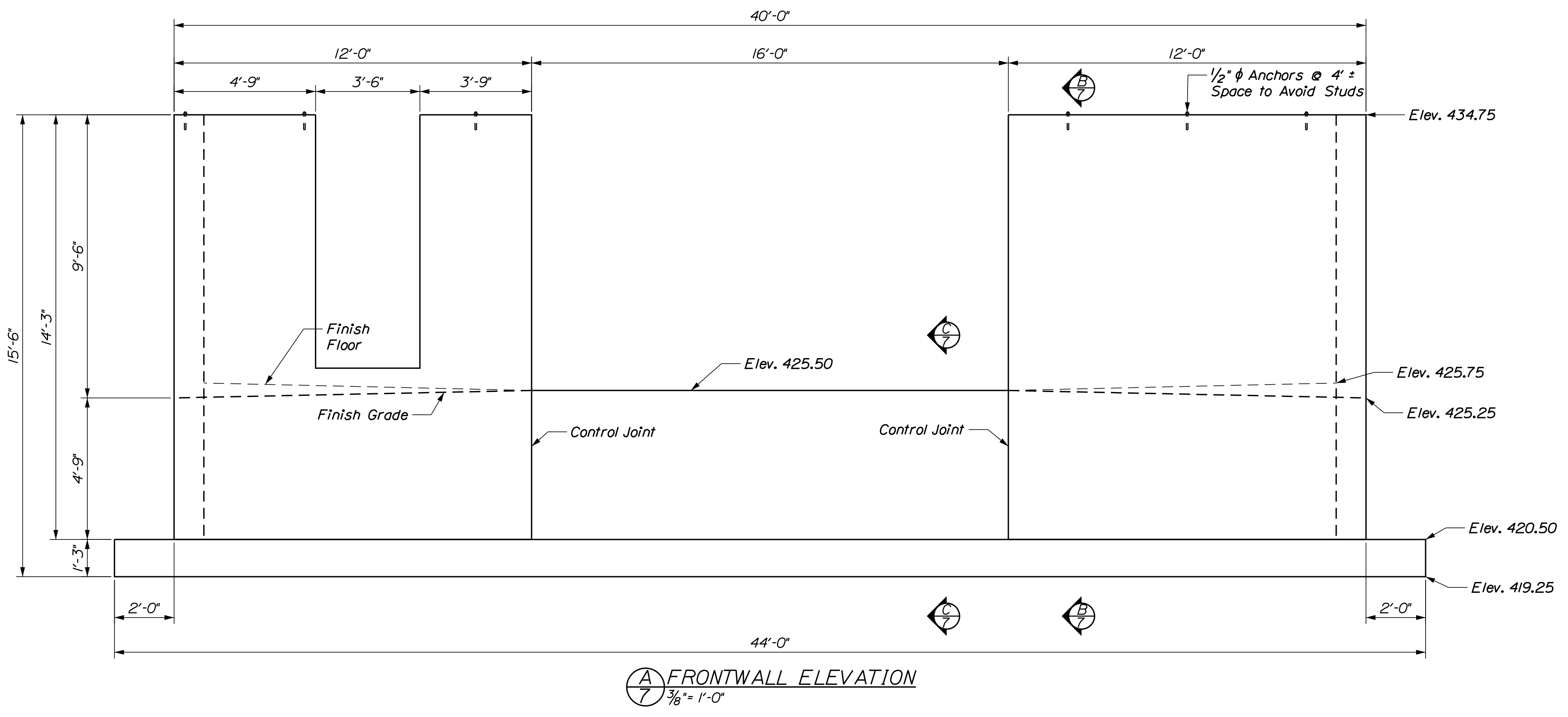
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**SIDEWALL REINFORCING DETAILS**

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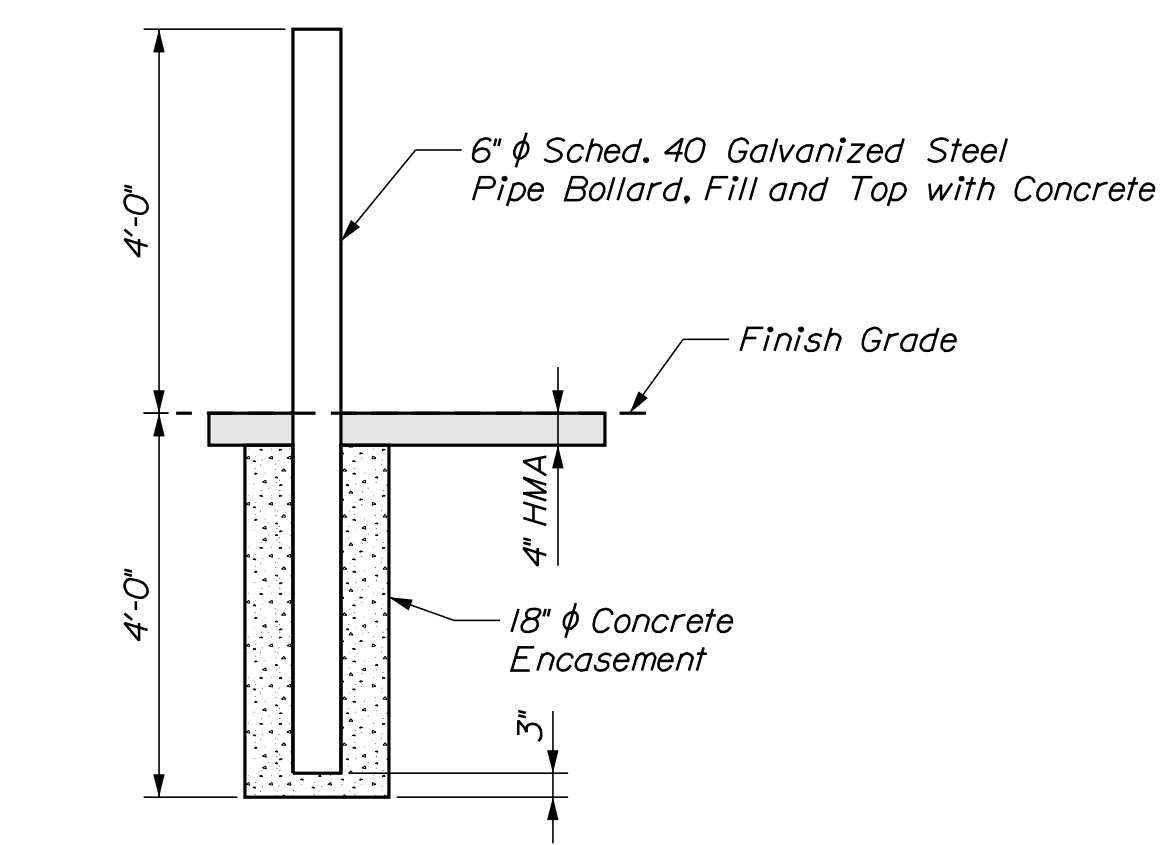
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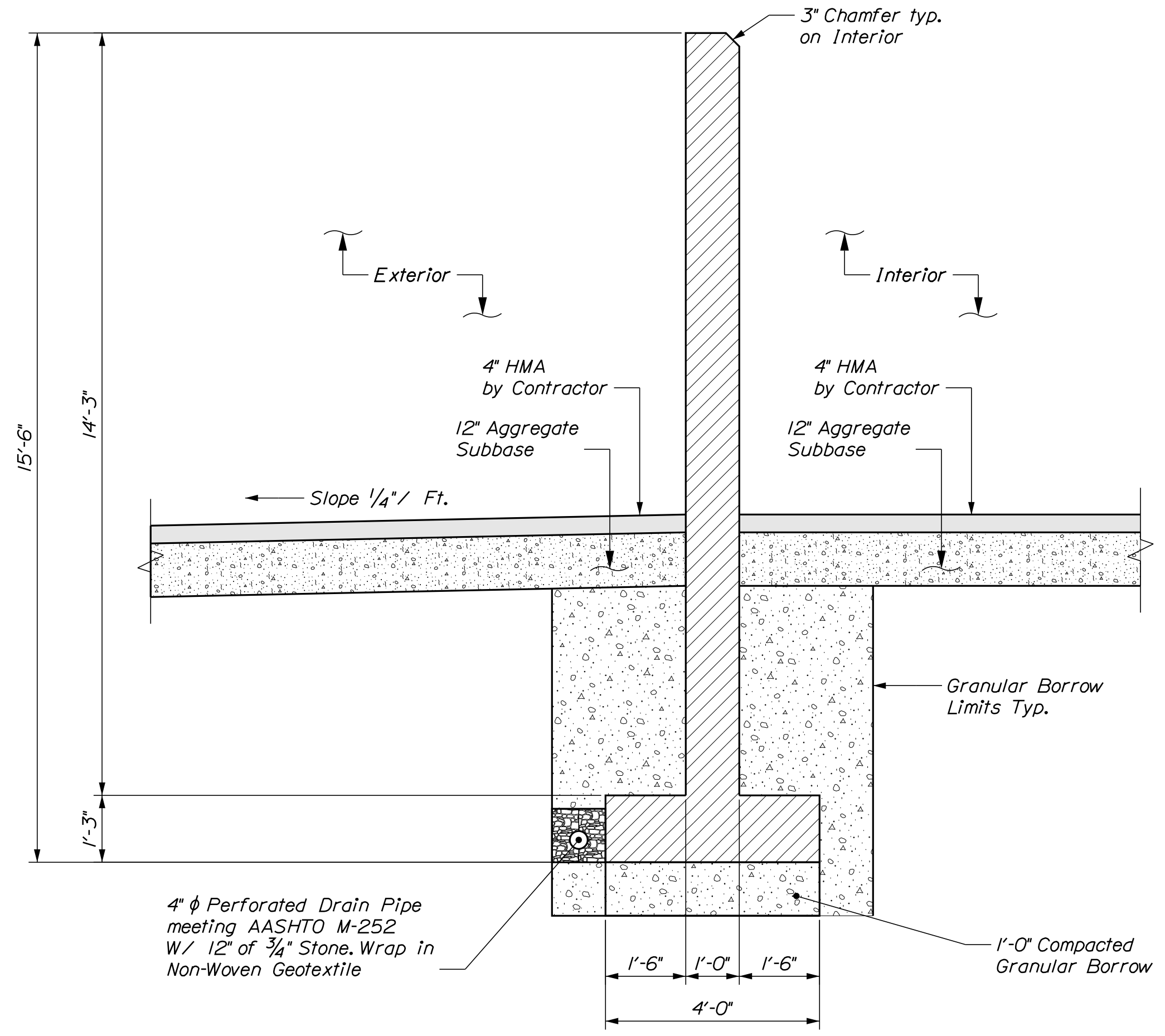




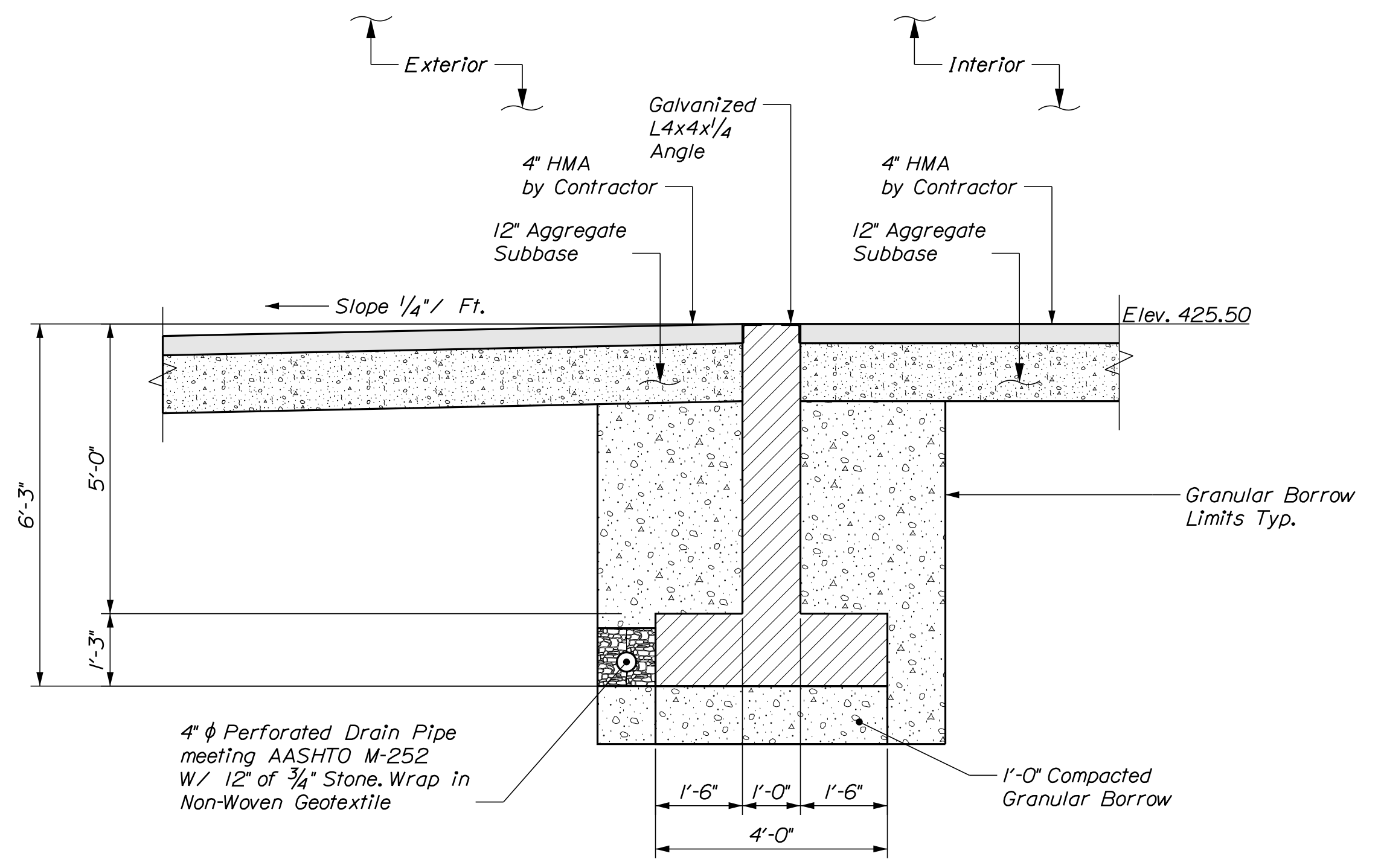
**A FRONTWALL ELEVATION**  
 3/8" = 1'-0"



**PIPE BOLLARD DETAIL**  
 1/2" = 1'-0"



**B FRONTWALL SECTION**  
 1/2" = 1'-0"



**C SECTION @ OVERHEAD DOOR**  
 1/2" = 1'-0"

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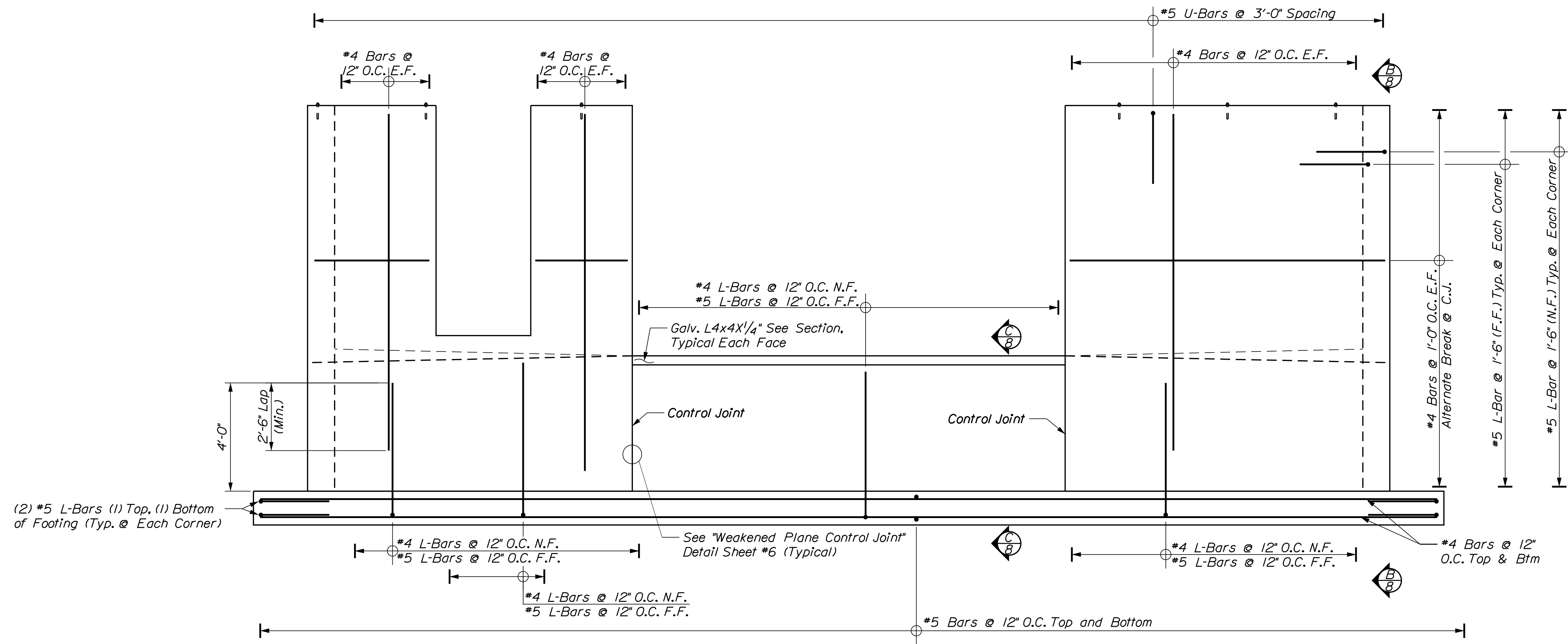
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**FRONTWALL DETAILS**

SHEET NUMBER

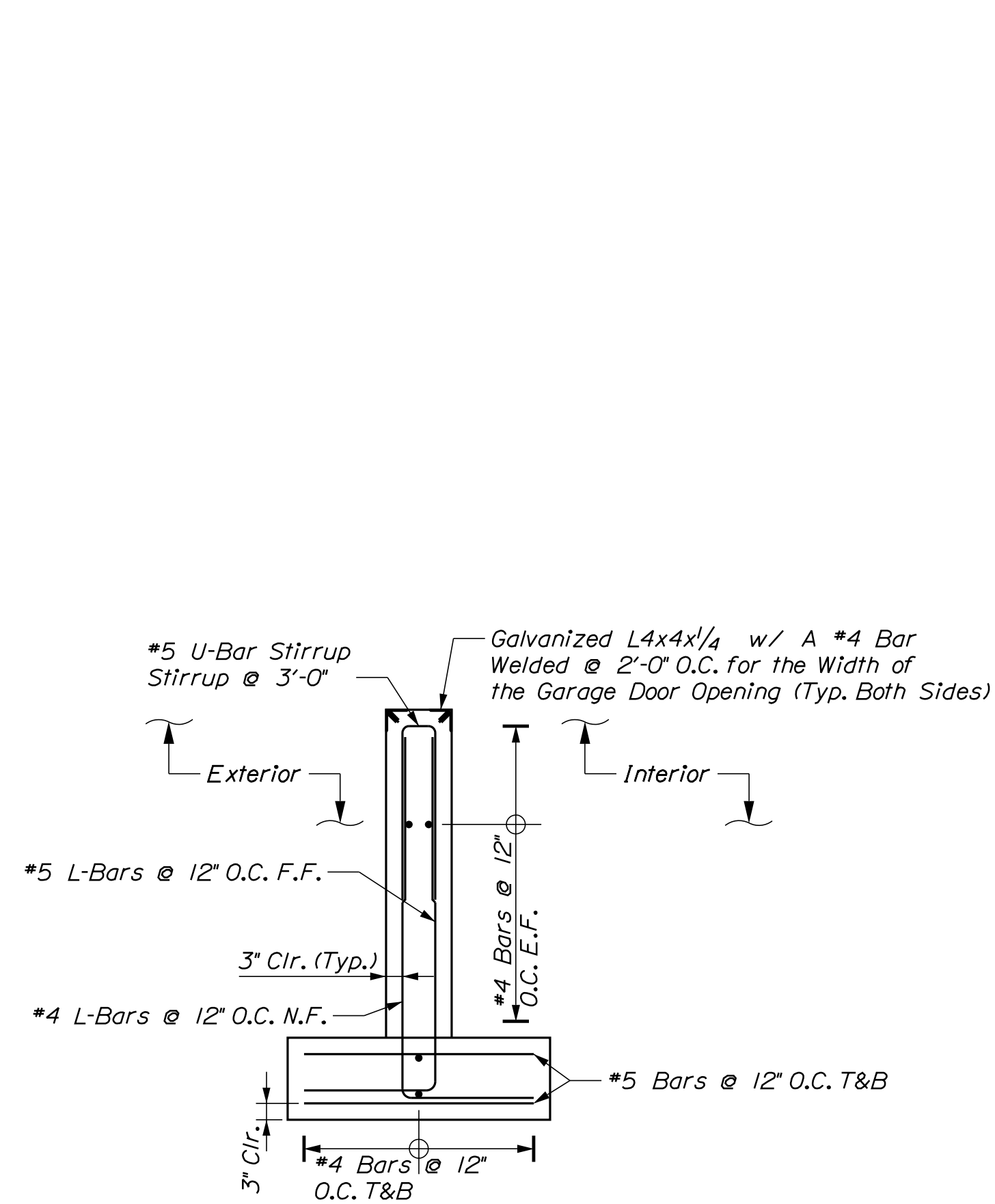
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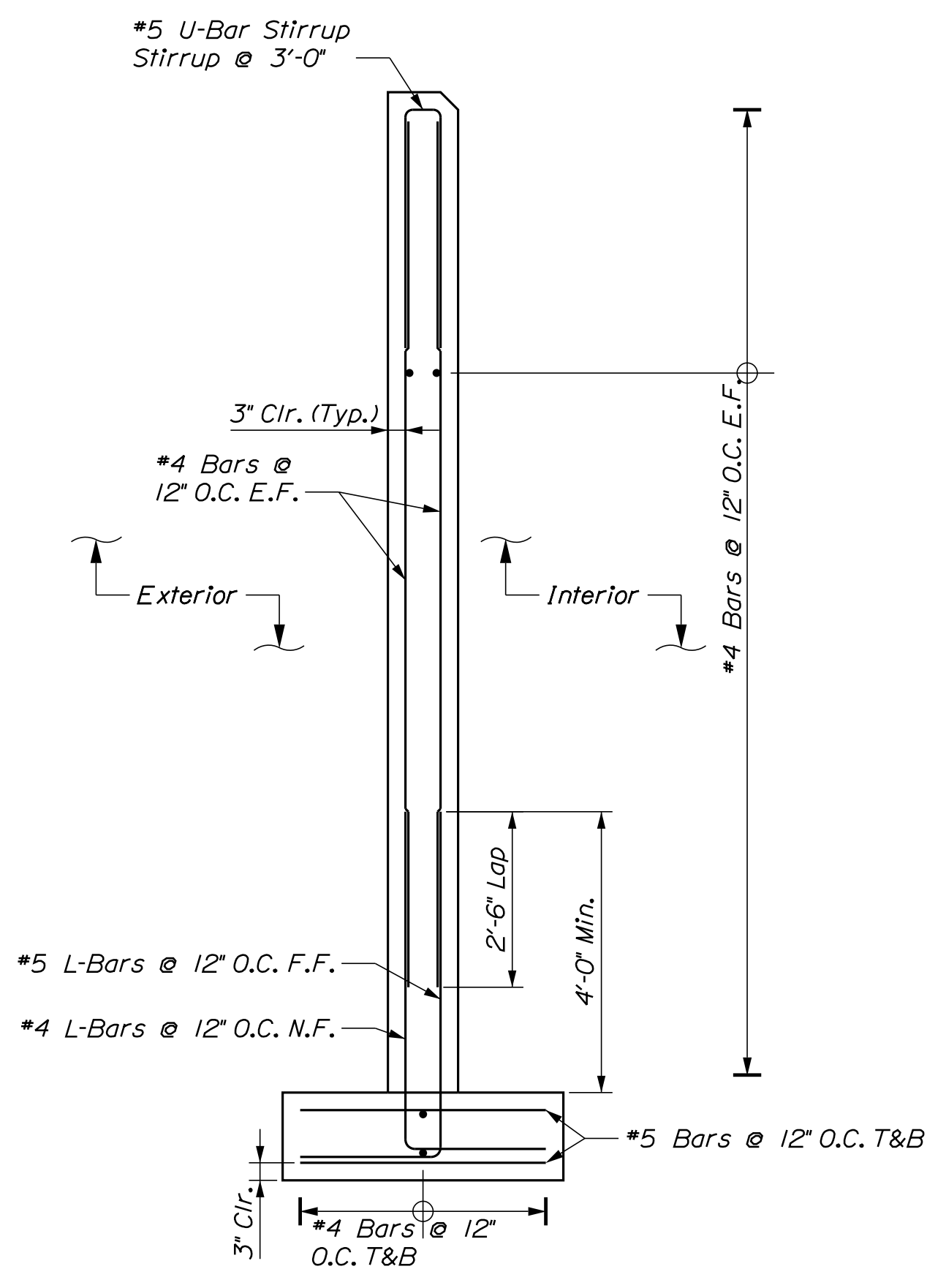




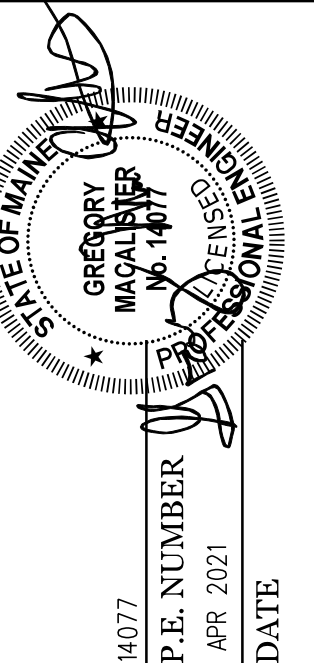
(A) FRONTWALL ELEVATION  
 3/8" = 1'-0"



(C) OVERHEAD DOOR SECTION  
 1/2" = 1'-0"



(B) FRONTWALL SECTION  
 1/2" = 1'-0"



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NOV. 2021	BAC	NOV. 2021	REVISIONS 1
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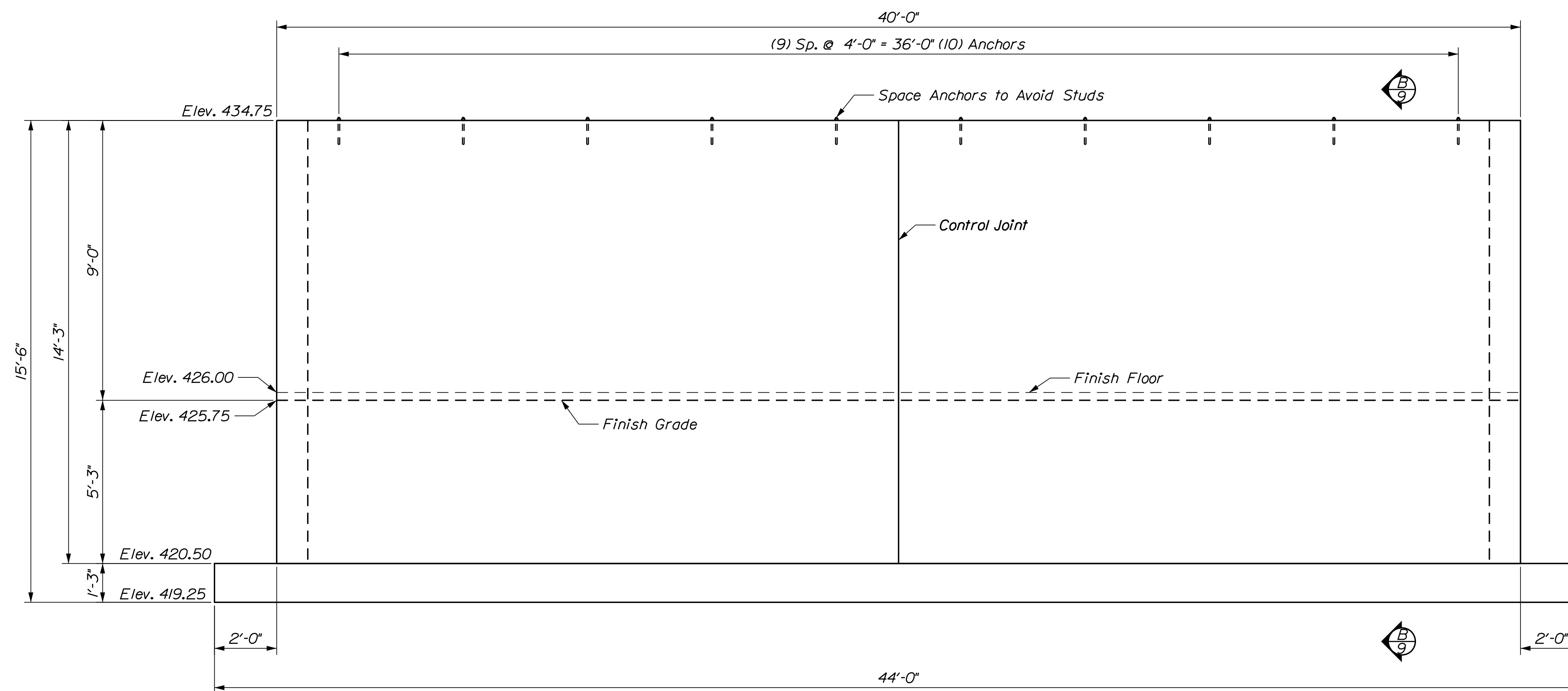
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 SALT BUILDING  
 FRONTWALL REINFORCING

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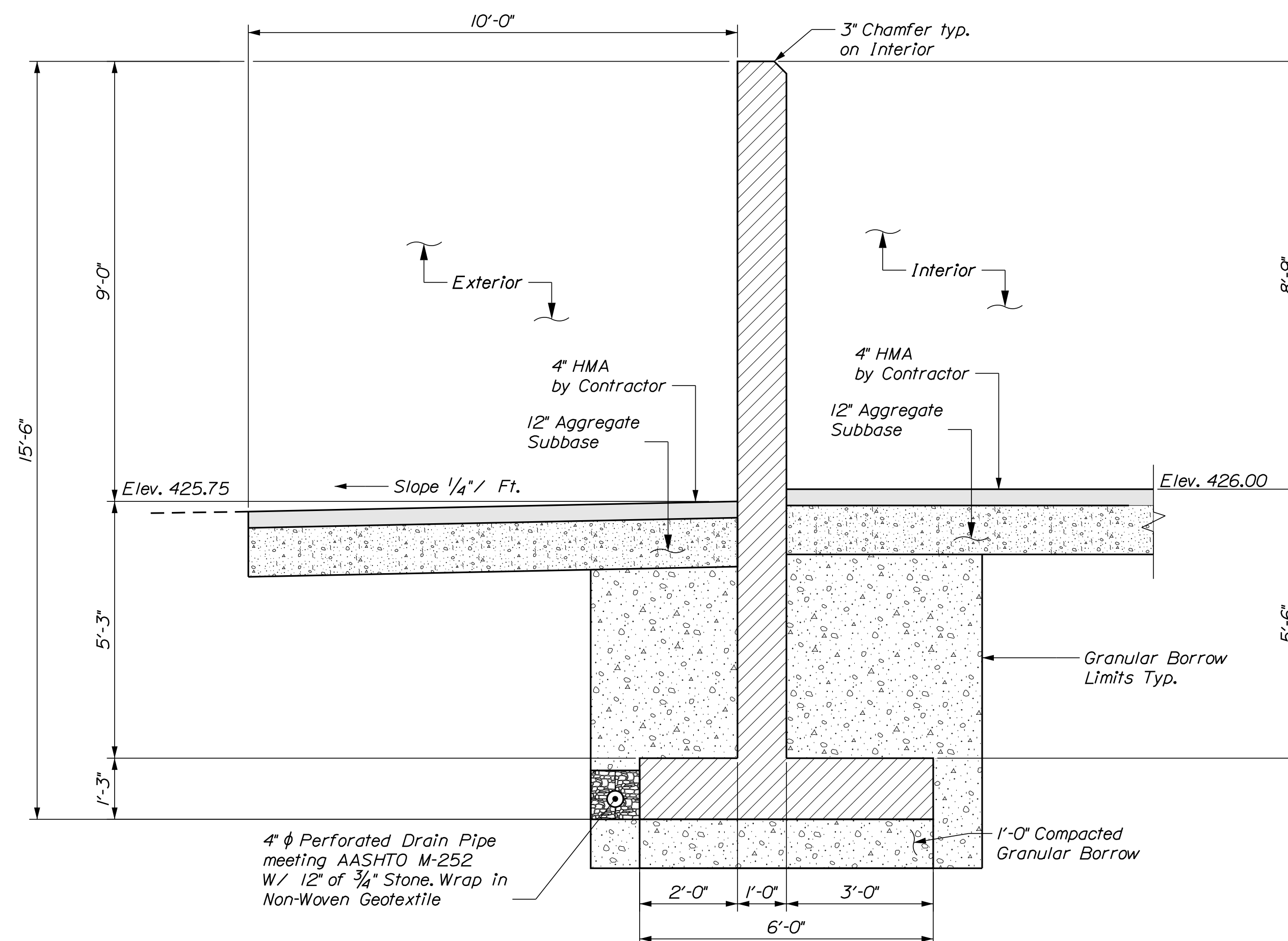
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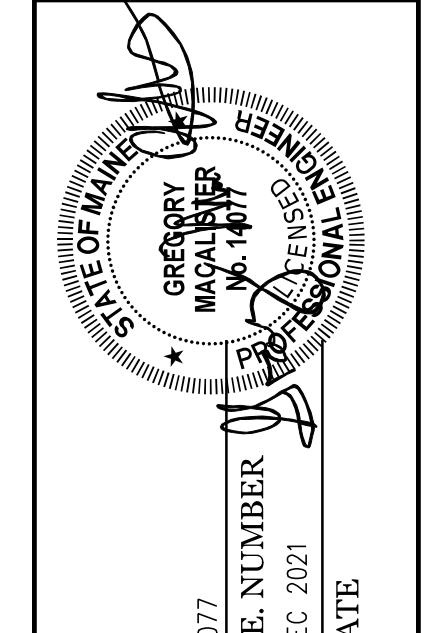


**(A) BACKWALL ELEVATION**  
 $\frac{3}{8}'' = 1'-0''$



**(B) BACKWALL SECTION**  
 $\frac{1}{2}'' = 1'-0''$

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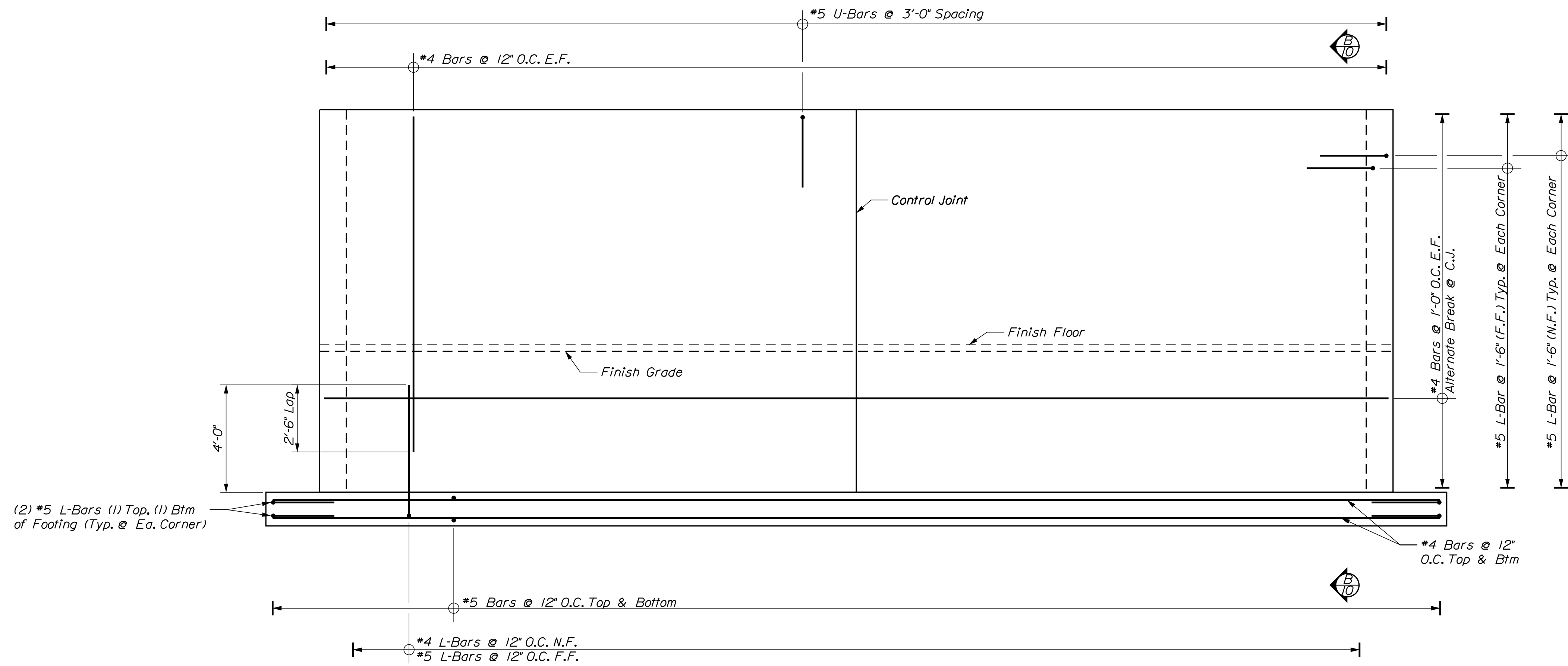


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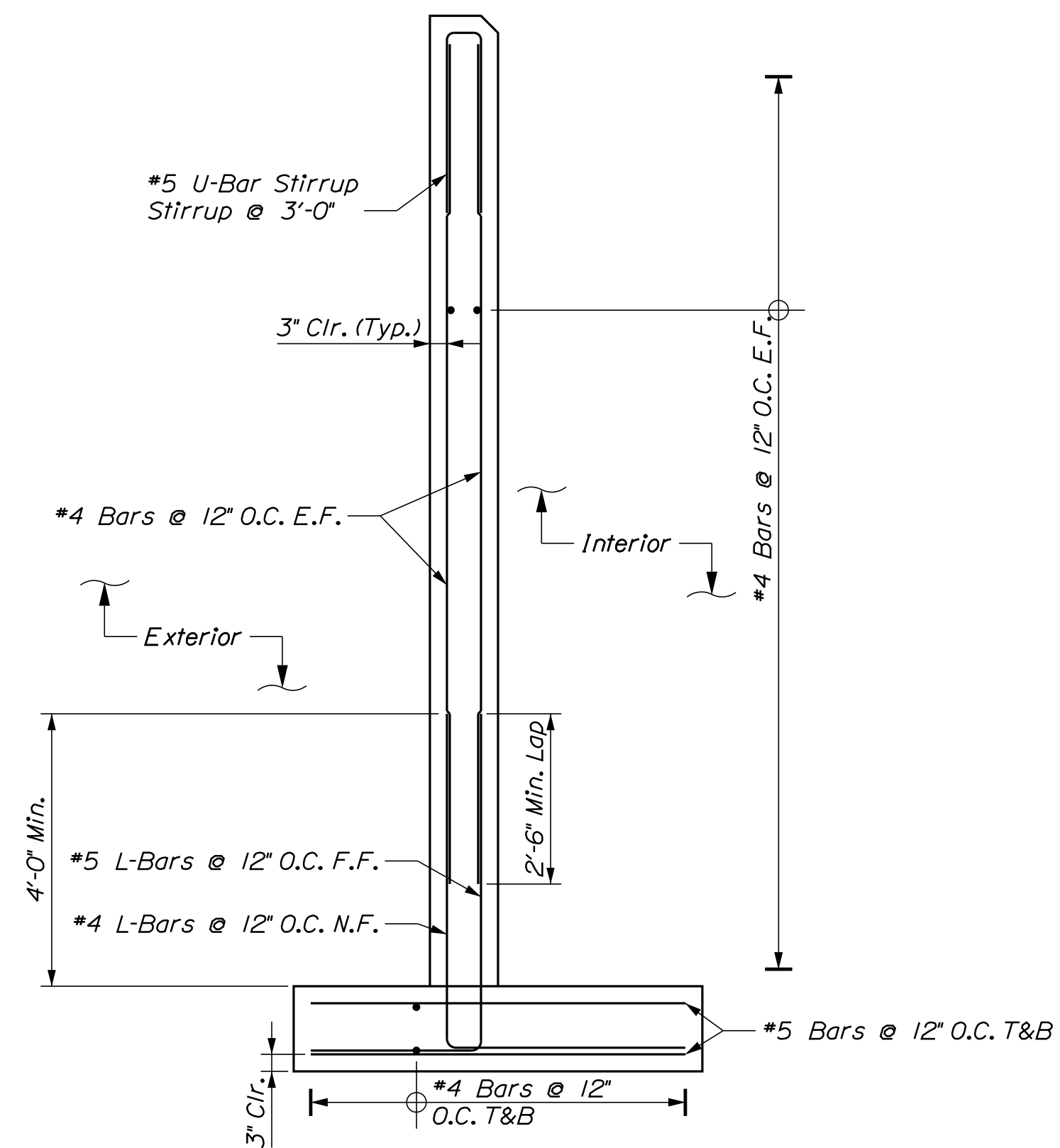
DIXFIELD MAINTENANCE  
 SALT BUILDING  
 BACKWALL DETAILS

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 OF 13



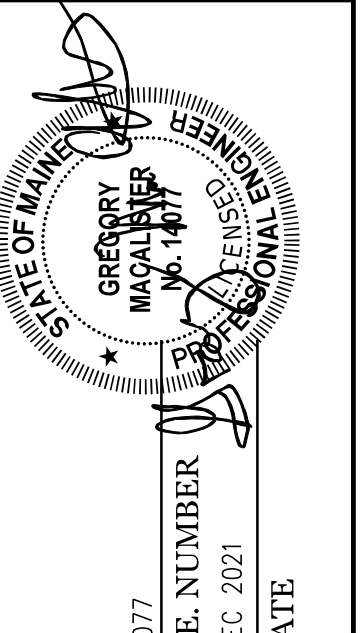


**(A) BACKWALL REINFORCING ELEVATION**  
 1/8" = 1'-0"



**(B) BACKWALL SECTION**  
 1/2" = 1'-0"

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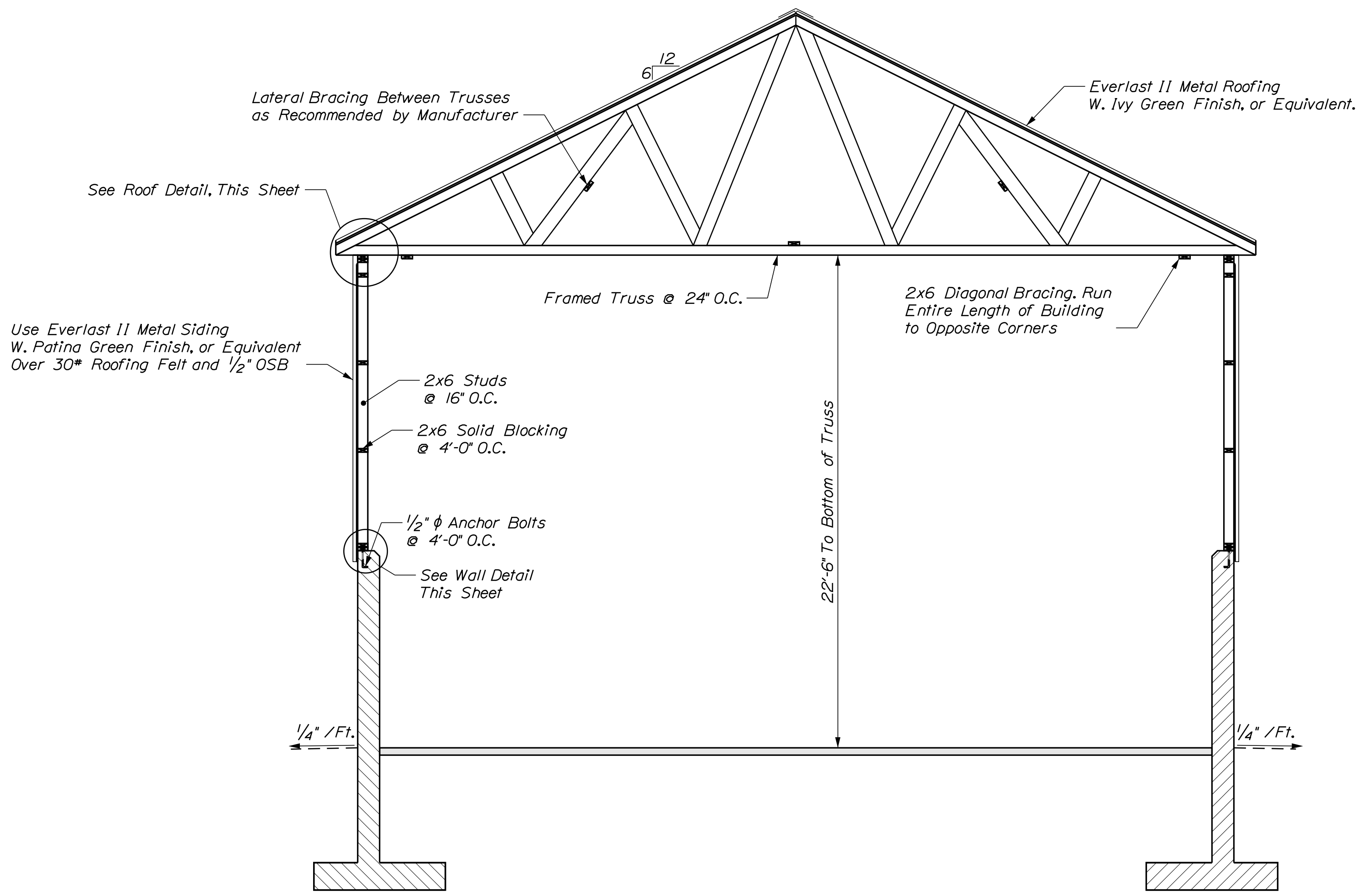


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	FIELD CHANGES		FIELD CHANGES

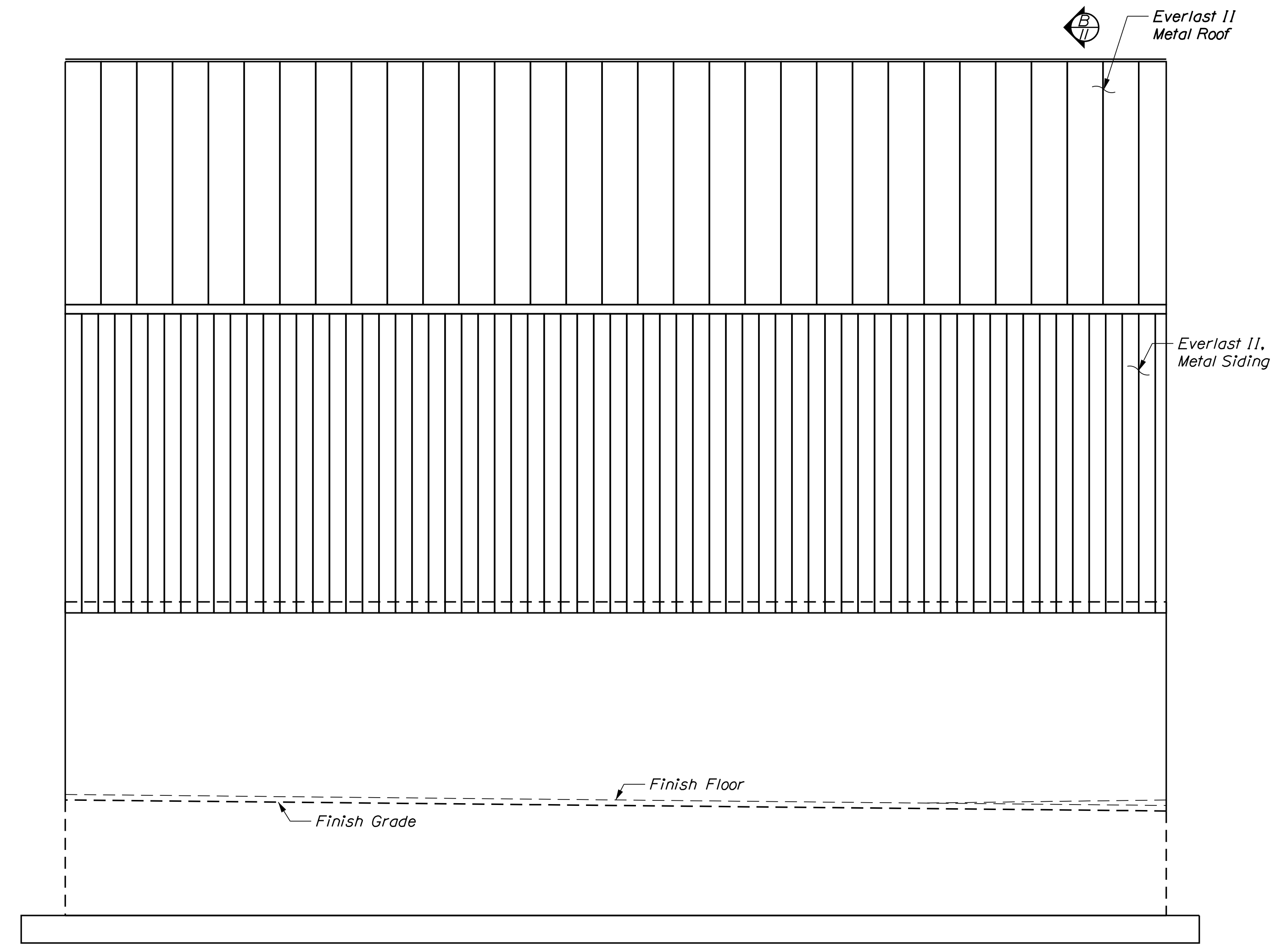
DIXFIELD MAINTENANCE  
 SALT BUILDING  
 BACKWALL REINFORCING

SHEET NUMBER  
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 OF 13

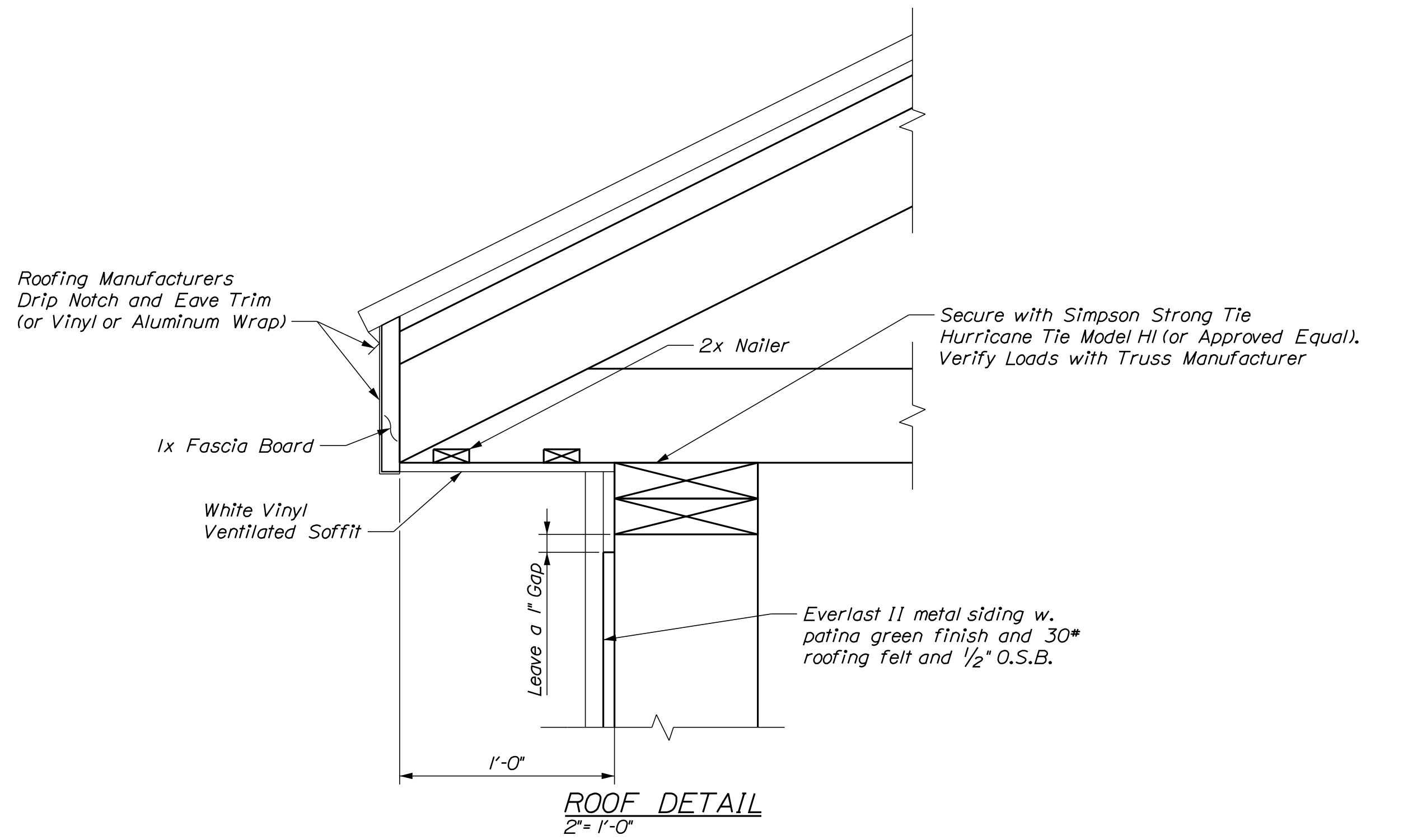




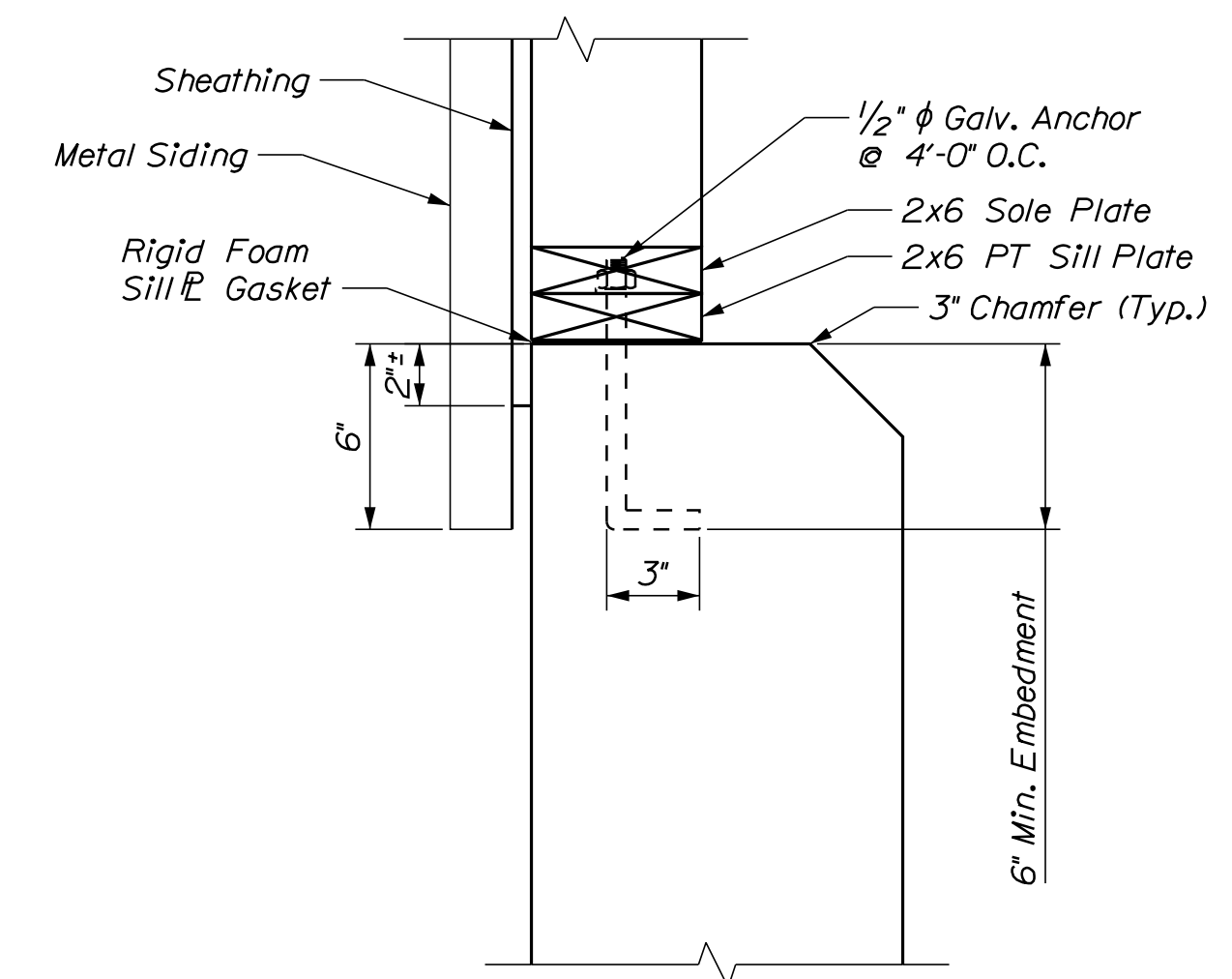
**(B) TYPICAL SECTION**  
1/4" = 1'-0"



**(A) SIDEWALL ELEVATION**  
1/4" = 1'-0" • East Elevation Shown



**ROOF DETAIL**  
2" = 1'-0"



**WALL DETAIL**  
2" = 1'-0"

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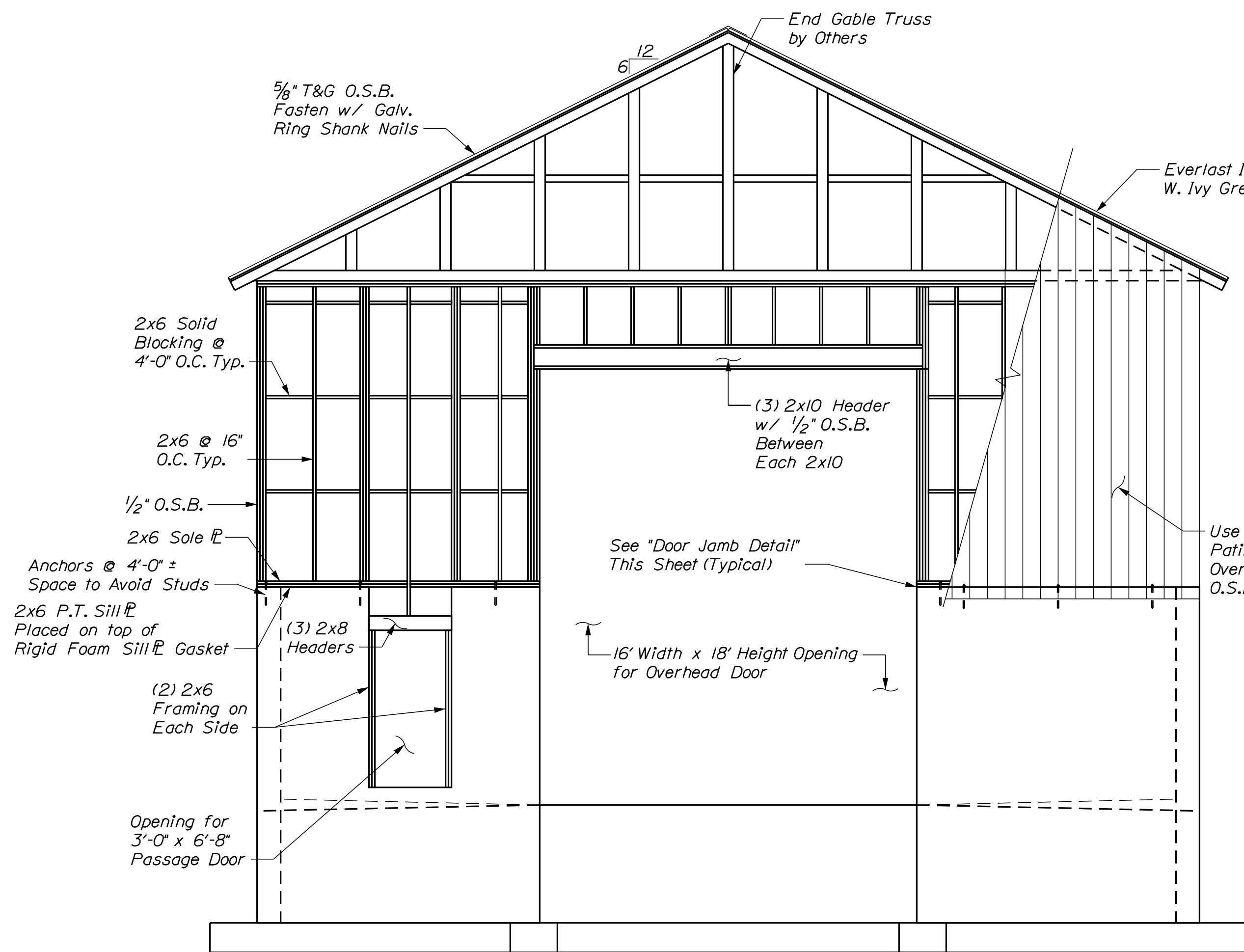
**DIXFIELD MAINTENANCE SALT BUILDING**  
**TYPICAL FRAMING DETAILS**

SHEET NUMBER

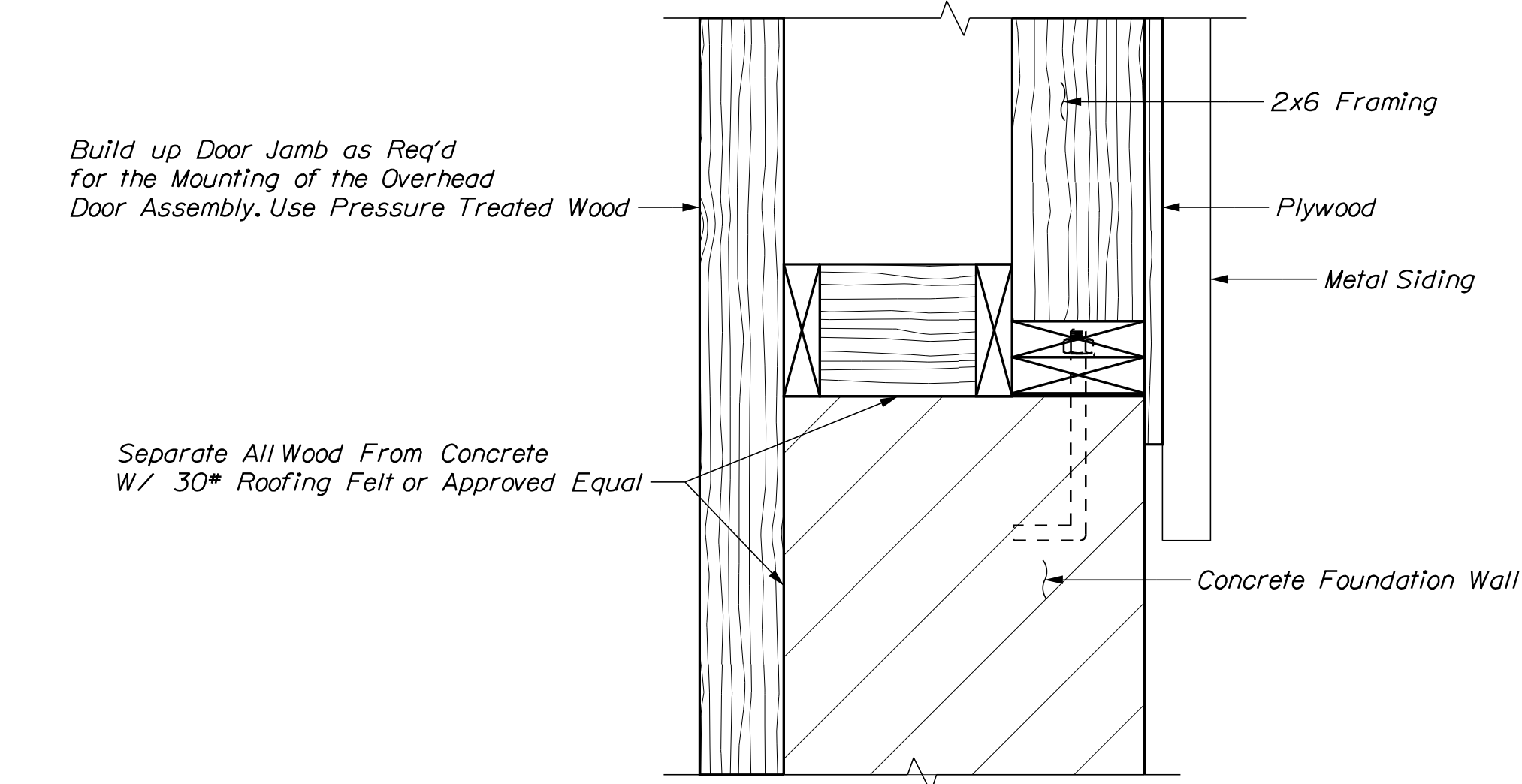
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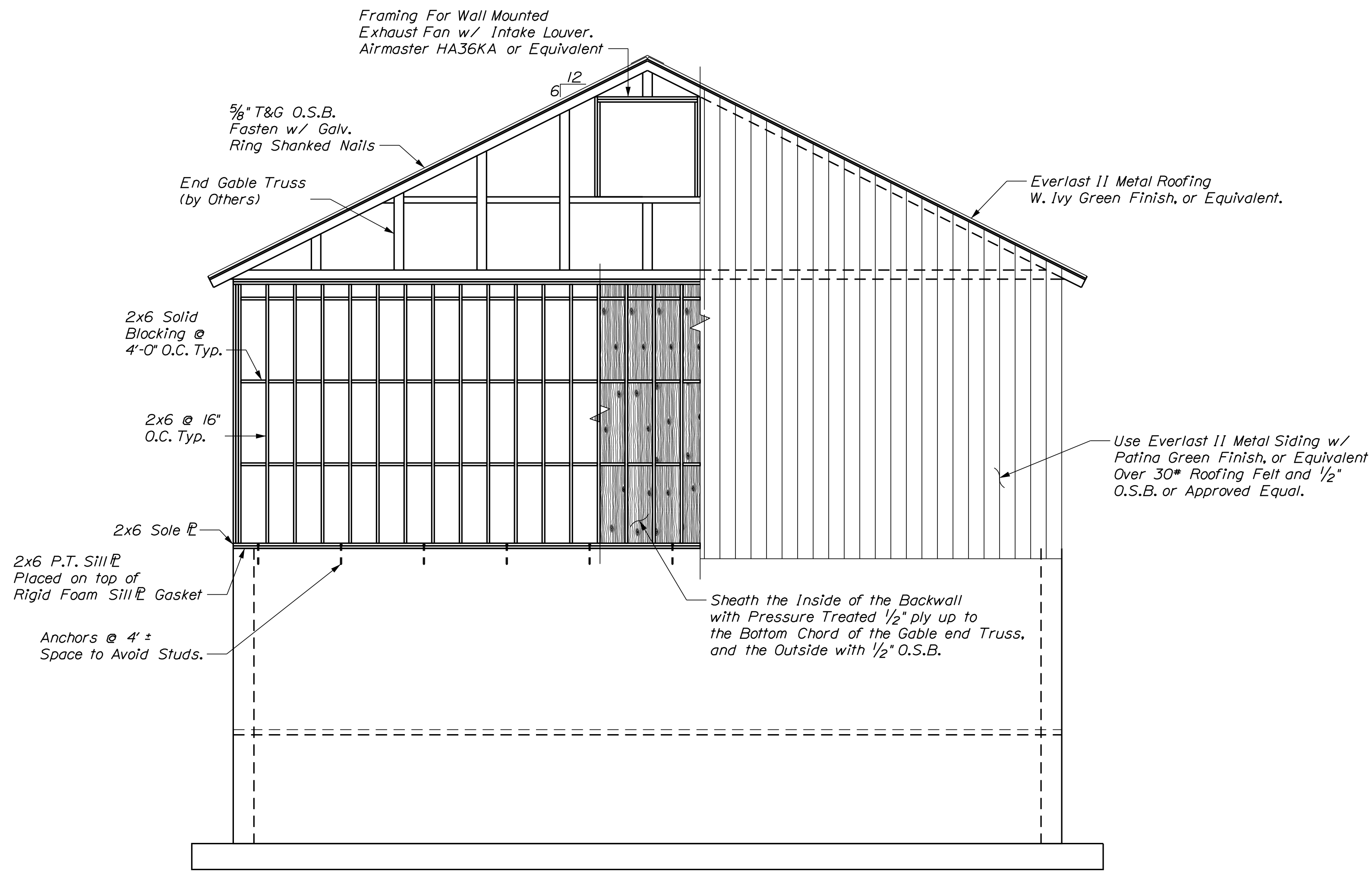




**FRONT (SOUTH) WALL FRAMING**  
1/4" = 1'-0"

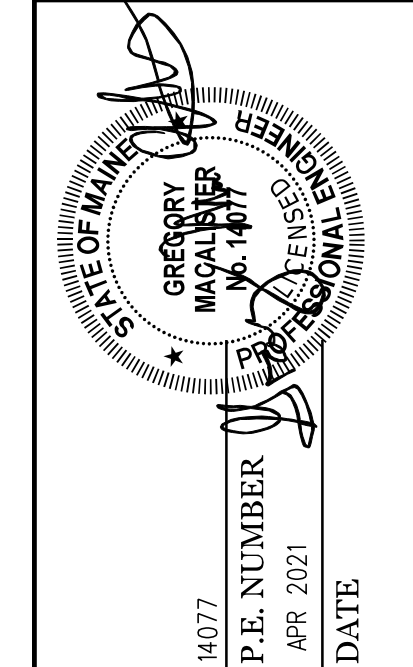


**DOOR JAMB DETAIL**  
2" = 1'-0"



**END (NORTH) WALL FRAMING**  
1/4" = 1'-0"

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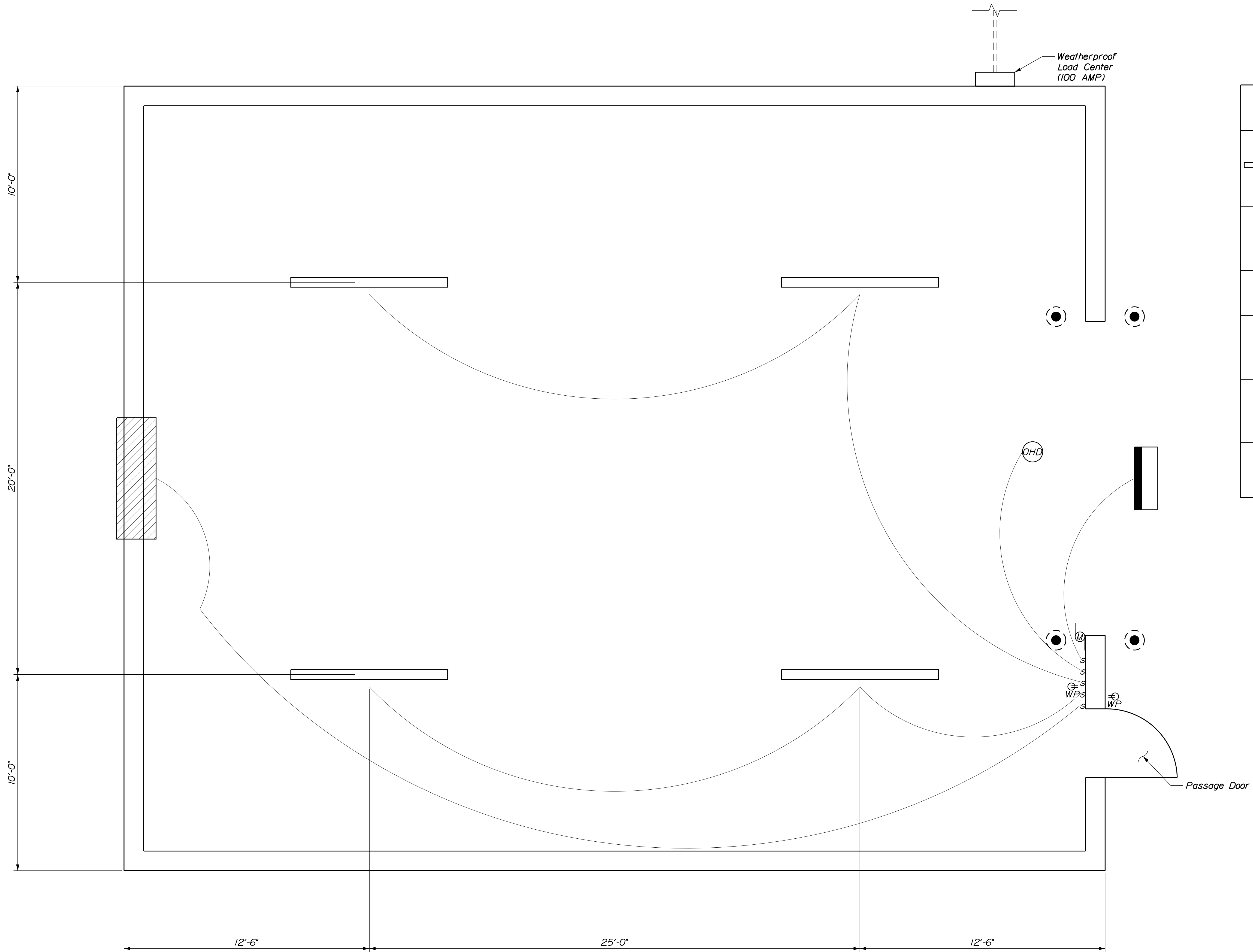


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NOV. 2021	BAC							
NOV. 2021	JHM							
	PAC							
	PAB							

**DIXFIELD MAINTENANCE SALT BUILDING**  
**TYPICAL FRAMING DETAILS**

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**ELECTRICAL FLOOR PLAN**  
 $\frac{3}{8}'' = 1'-0''$

ELECTRICAL LEGEND	
	H.E. Williams, Fully Enclosed & Gasketed Industrial LED Light Fixture. Model #96-8-L80/830-HIAFR-SSCMB/SS LATCH-DRV-120 W/ Occupancy Sensor *OCCWS HB35OW-L4W-120
	Led Flood Light Equiv. To Lithonia D-Series Size 3 W/ Photocell And Switch
	Weatherproof Switch
	GFCI RECEPTACLE W/ WEATHERPROOF COVER
	Overhead Door Operator
	Exhaust Fan

Power to be Installed Underground if Possible, Contractor Shall Price as Such.

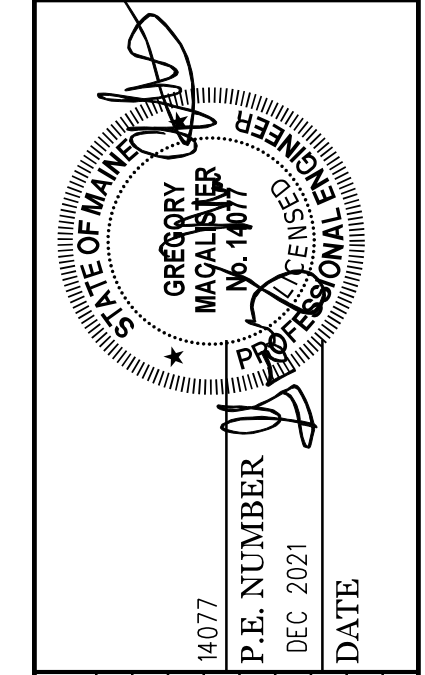
Contractor will be Req'd to Excavate, Supply, Install, Backfill, and Compact per National Electrical Code (NEC) on Underground Conduit. See Sheet 2 for Details.

Conduit Shall be Installed Below Grade. Each end of the Conduit Shall be Capped and protrude Above Finish Grade by 2 Ft.

Fan on Backwall, OHD Opener and Lights Shall be Wired and Hooked up for Power as Indicated

Suspend all Interior Lights a Min. of 1'-0" Below the Bottom Chord of the Framed Truss

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NOV. 2021	B/C	NOV. 2021	1
NOV. 2021	J/H	NOV. 2021	2
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			4
			FIELD CHANGES

**DIXFIELD MAINTENANCE SALT BUILDING**  
**TYPICAL FRAMING DETAILS**

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