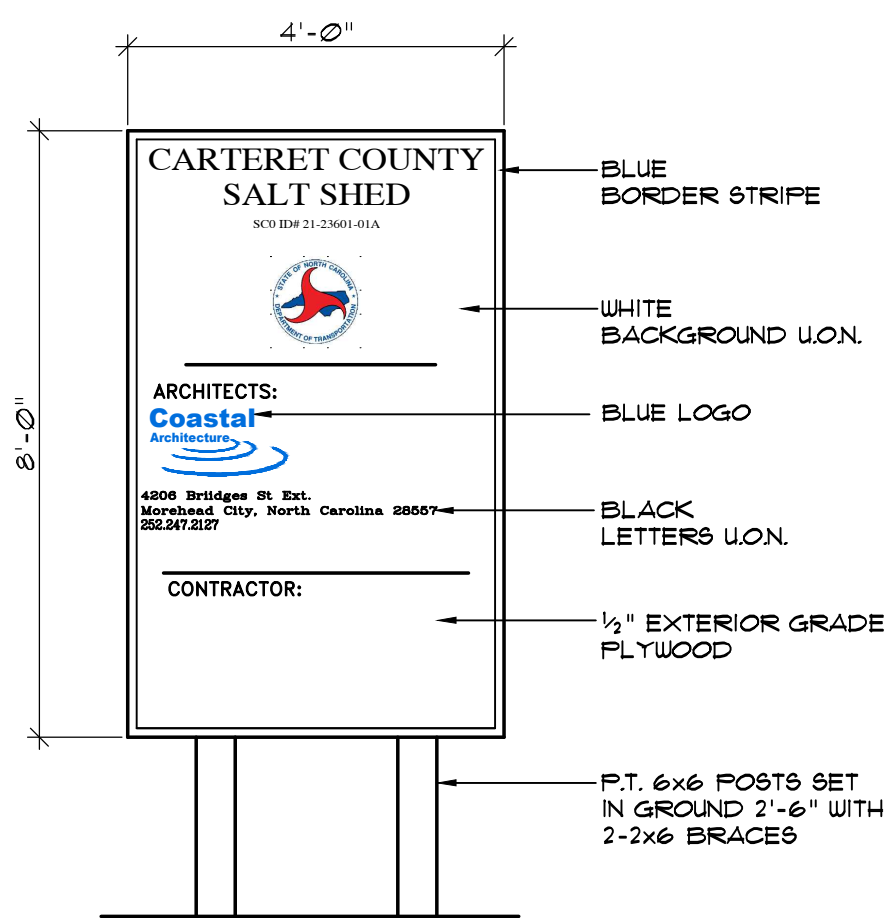


CARTERET COUNTY SALT SHED

131 MASONTOWN RD.

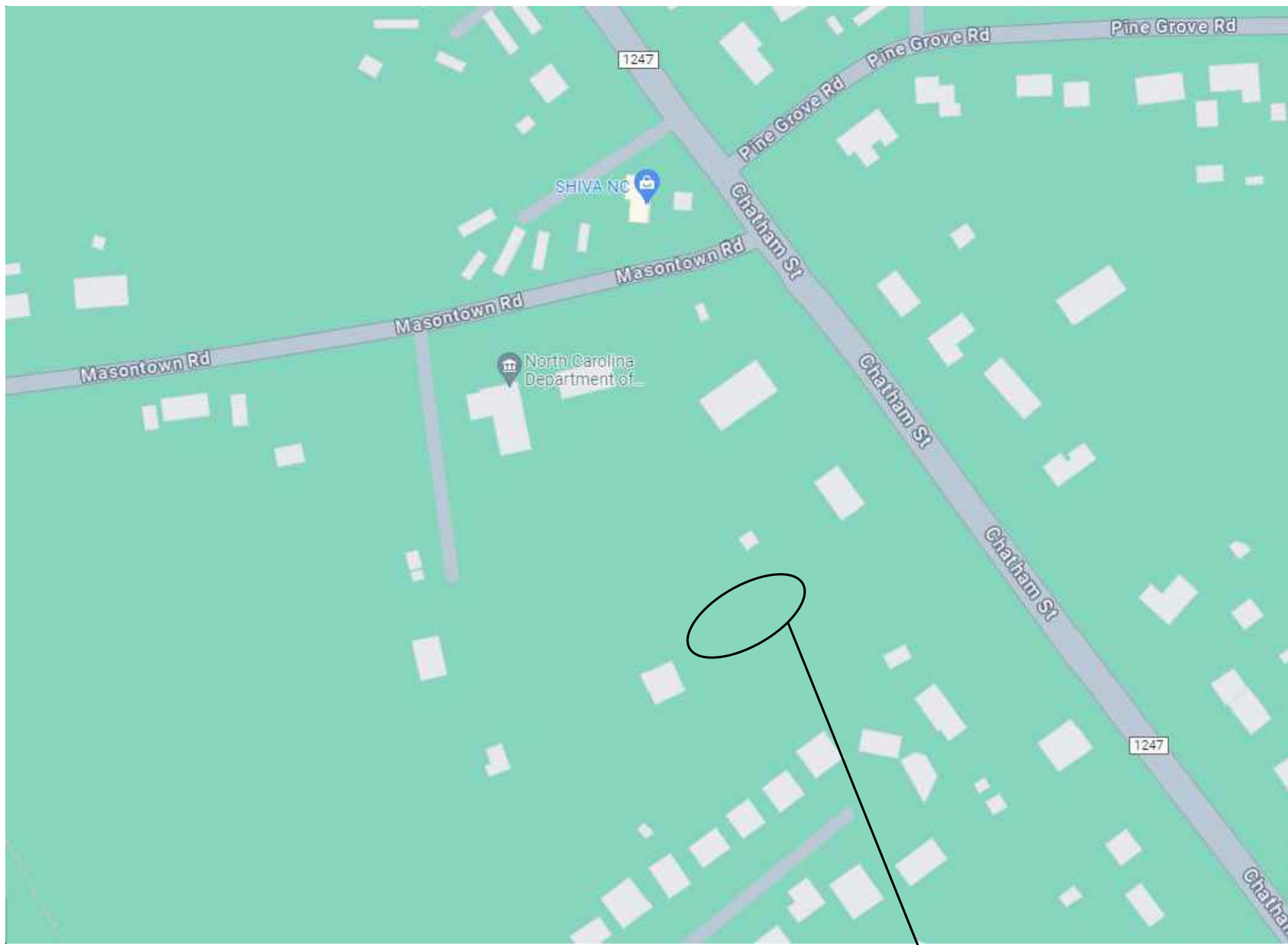
NEWPORT, NORTH CAROLINA

SC0 ID# 21-23601-01A



1 PROJECT SIGN
CS-1 NOT TO SCALE

NOTE: SUBMIT SHOP DRAWING FOR COORDINATION OF LETTER HEIGHTS SPECIFIC SIGN COLORS.



LOCATION OF NEW SALT SHED

INDEX TO DRAWINGS

CS-1	COVER SHEET
G-1	GENERAL DATA
G-2	LIFE SAFETY PLAN
SD-1	NEW SITE PLAN
A-1	FLOOR PLAN & ELEVATIONS
A-2	WALL SECTIONS
A-3	WALL SECTIONS
S-1	FOUNDATION AND ROOF FRAMING PLANS
S-2	STRUCTURAL DETAILS & NOTES
E-1	ELECTRICAL SPECIFICATIONS
E-2	ELECTRICAL PLAN/RISER
E-3	ELECTRICAL SITE PLAN

Coastal
Architecture

USE OF Coastal Architecture, DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS

The Drawings, Specifications and other documents prepared by Coastal Architecture, the Designer, for this project are instruments of service for use solely with respect to this project and, unless otherwise provided, the Designer shall be deemed the author of these documents and shall retain all common law, statutory and other reserved rights, including copyright protection. The Owner shall be permitted to retain copies of the Designer's drawings, Specifications, and other documents for information and reference in connection with the Owner's use and occupancy of this project. No portions in part or in whole of the Drawings, Specifications and other documents shall be duplicated or used by the Owner or others for additions to this Project, completion of this Project by others, or on other Projects without written consent by the Designer.

Coastal
Architecture

- Architectural Design
- Planning
- Interiors

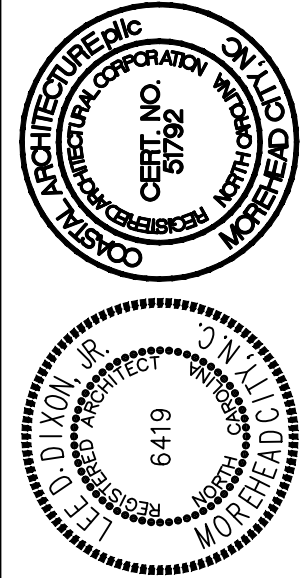


AIA
Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
252-247-2127
lee@coastalarchitecture.net

4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SC0 ID# 21-23601-01A
CARTERET COUNTY, NORTH CAROLINA



COVER SHEET

21030

ISSUED: 06/22/22
DWG BY: MLR
CKD BY: LDD

REVISIONS

SHEET NO.
CS-1
OF

APPENDIX B

2018 BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT ONE- AND TWO-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: CARTERET COUNTY SALT SHED
Address: 131 MABONTOWN RD. NEWPORT, NC Zip Code: 28570
Owner/Authorized Agent: MIKE MOUNTCASTLE Phone # (919) 707-4552 E-Mail: mmountcastle@ncdot.gov
Owned By: ☐ City/County ☐ Private ☒ State ☒ NC
Code Enforcement Jurisdiction: ☐ City ☐ County ☒ State ☒ NC

CONTACT:
DESIGNER: FIRM NAME LICENSE # TELEPHONE # E-MAIL
Architectural: Coastal Architecture Lee Dixon 6419 (252) 247-2127 lee@coastalarchitecture.net
Civil: ()
Electrical: Burke Design Group Ben Burke 22038 (919) 771-1916 ben@bdg-nc.com
Fire Alarm: ()
Plumbing: ()
Mechanical: ()
Sprinkler-Standpipe: ()
Structural: InFocus Engineering Tim Corley 232029 (252) 412-8538 info@infocusengineeringnc@gmail.com
Retaining Walls > 5 feet High: ()
Other: ()
("Other" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC BUILDING CODE: ☒ New Building ☐ Shell/Core ☐ 1st Time Interior Completions
☐ Addition ☐ Phased Construction - Shell Core
2018 NC EXISTING BUILDING CODE: ☐ Prescriptive ☐ Alteration Level I ☐ Historic Property
(check all that apply) ☐ Repair ☐ Alteration Level II ☐ Change of Use
☐ Chapter 14 ☐ Alteration Level III
CONSTRUCTED: (date) _____ CURRENT USE(S) (Ch. 3): _____
RENOVATED: (date) _____ PROPOSED USE(S) (Ch. 3): UTILITY & MISC.
OCCUPANCY CATEGORY (Table 1604.5): Current: RISK CAT. I Proposed: RISK CAT. I

BASIC BUILDING DATA
Construction Type: ☐ I-A ☐ II-A ☐ III-A ☐ IV ☐ V-A
(check all that apply) ☐ I-B ☐ II-B ☐ III-B ☒ V-B
Sprinklers: ☒ No ☐ Partial ☐ NFPA 13 ☐ NFPA 13R ☐ NFPA 130
Standpipes: ☒ No ☐ Class ☐ II ☐ III ☐ Wet ☐ Dry
Primary Fire District: ☐ No ☐ Yes Flood Hazard Area: ☐ No ☐ Yes
Special Inspections Required: ☐ No ☐ Yes

GROSS BUILDING AREA TABLE			
Floor	Existing (sq ft)	New (sq ft)	Subtotal
3rd Floor			
2nd Floor			
Mezzanine			
1st Floor		<u>2,624</u>	<u>2,624</u>
Basement			
TOTAL		<u>2,624</u>	<u>2,624</u>

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet. If performance method, state the annual energy cost for the standard reference design versus the annual energy cost for the proposed design.

Existing building envelope complies with code: ☐ (If checked, the remainder of this section is not applicable.)

Exempt Building: ☐ Provide code or statutory reference: _____

Climate Zone: ☐ 3A ☐ 4A ☐ 5A

Method of Compliance:
Energy Code: ☐ Performance ☐ Prescriptive
ASHRAE 90.1: ☐ Performance ☐ Prescriptive
Other: ☐ Performance (specify source) _____

THERMAL ENVELOPE: (Prescriptive method only)

Roof/ceiling Assembly (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Skylights in each assembly: _____
U-Value of skylight: _____
total square footage of skylights in each assembly: _____

Exterior Walls (each assembly)
Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Openings (windows or doors with glazing)
U-Value of assembly: _____
Solar heat gain coefficient: _____
projection factor: _____
Door R-Values: _____

Walls below grade (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors over unconditioned space (each assembly)

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____

Floors slab on grade

Description of assembly: _____
U-Value of total assembly: _____
R-Value of insulation: _____
Horizontal/vertical requirement: _____
slab heated: _____

Primary Occupancy Classification(s):		ALLOWABLE AREA				
Assembly	☐ A-1	☐ A-2	☐ A-3	☐ A-4	☐ A-5	
Business	☐					
Educational	☐					
Factory	☐ F-1 Moderate	☐ F-2 Low				
Hazardous	☐ H-1 Detonate	☐ H-2 Deflagrate	☐ H-3 Combust	☐ H-4 Health	☐ H-5 HPM	
Institutional	☐ I-1	☐ I-2	☐ I-3	☐ I-4		
I-3 Condition	☐ 1	☐ 2				
I-2 Condition	☐ 1	☐ 2				
I-3 Condition	☐ 1	☐ 2	☐ 3	☐ 4	☐ 5	
Mercantile	☐					
Residential	☐ R-1	☐ R-2	☐ R-3	☐ R-4		
Storage	☐ S-1 Moderate	☐ S-2 Low	☐ High-piled			
	☐ Parking Garage	☐ Open	☐ Enclosed	☐ Repair Garage		
Utility and Miscellaneous	☒					

Accessory Occupancy Classification(s): _____

Incidental Uses (Table 509): _____

This separation is not exempt as a Nonseparated Use (see exceptions).

Special Uses (Chapter 4 - List Code Sections): _____

Special Provisions: (Chapter 5 - List Code Sections): _____

Mixed Occupancy: ☒ No ☐ Yes Separation: _____ Hr. Exception: _____

Non-separated Use (508.3)

Separated Use (508.4)—See below for area calculations for each story, the area of the occupancy shall be such that the sum of the ratios of the actual floor area of each use divided by the allowable floor area for each use shall not exceed 1.

Select one

$$\frac{\text{Actual Area of Occupancy A}}{\text{Allowable Area of Occupancy A}} + \frac{\text{Actual Area of Occupancy B}}{\text{Allowable Area of Occupancy B}} \leq 1$$

$$+ = \leq 1.00$$

STORY NO.	DESCRIPTION AND USE	(A) BUILDING AREA PER STORY (ACTUAL)	(B) TABLE 506.2.4 AREA	(C) AREA FOR FRONTAGE INCREASES, 1	(D) ALLOWABLE AREA PER STORY OR UNLIMITED, 2
1	UTILITY & MISC	2,624	5,500	4,125	9,625

1. Frontage area increases from Section 506.2 are computed thus:

a. Perimeter which fronts a public way or open space having 20 feet minimum width = 204 (F)

b. Total Building Perimeter = 204 (F)

c. Ratio (F/P) = 1 (F/P)

d. W = Minimum width of public way = 30 (W)

2. Unlimited area applicable under conditions of Section 507.

3. Maximum Building Area = total number of stories in the building * D (maximum 3 stories) (506.2).

4. The maximum area of open parking garages must comply with Table 406.5.4. The maximum area of air traffic control towers must comply with Table 412.3.1.

5. Frontage increase is based on the unsprinklered area value in Table 506.2.

STRUCTURAL DESIGN

DESIGN LOADS:

Importance Factors: Wind (IW) 1.0
Snow (IS) 1.0
Seismic (IE) 1.0

Live Loads: Roof 20 psf
Mezzanine N/A psf
Floor 800 psf

Ground Snow Load: 10 psf

Wind Load: Basic Wind Speed 141 mph (ASCE-7)
Exposure Category B

SEISMIC DESIGN CATEGORY: ☐ A ☒ B ☐ C ☐ D

Provide the following Seismic Design Parameters:

Occupancy Category (Table 1604.5) ☒ I ☐ II ☐ III ☐ IV

Spectral Response Acceleration SS 14.9 %g S1 6.0 %g

Site Classification (ASCE 7) ☐ A ☐ B ☐ C ☒ D ☐ E ☐ F

Data Source: ☐ Field Test ☒ Presumptive ☐ Historical Data

Basic structural system (check one)

☒ Bearing Wall ☐ Dual w/Special Moment Frame
☐ Building Frame ☐ Dual w/Intermediate R/C or Special Steel
☐ Moment Frame ☐ Inverted Pendulum

Analysis Procedure: ☐ Simplified ☒ Equivalent Lateral Force ☐ Dynamic

Architectural, Mechanical, Components anchored? ☐ Yes ☐ No

LATERAL DESIGN CONTROL: ☐ Earthquake ☒ Wind

SOIL BEARING CAPACITIES:

Field Test (provide copy of test report) _____ psf

Presumptive Bearing capacity 1500 psf

Pile size, type, and capacity _____

MECHANICAL DESIGN

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone

winter dry bulb: _____
summer dry bulb: _____

Interior design conditions

winter dry bulb: _____
summer dry bulb: _____

Building heating load: **NOT APPLICABLE**

Building cooling load: _____

Building cooling load: _____

Mechanical Spacing Conditioning System

Unitary

description of unit: _____
heating efficiency: _____
cooling efficiency: _____

size category of unit: _____

Boiler

Size category. If oversized, state reason: _____

Chiller

Size category. If oversized, state reason: _____

List equipment efficiencies: _____

ELECTRICAL DESIGN

ELECTRICAL SUMMARY

ELECTRICAL SYSTEM AND EQUIPMENT

Method of Compliance:

Energy Code: ☐ Prescriptive ☐ Performance

ASHRAE 90.1: ☐ Prescriptive ☐ Performance

Lighting schedule (each fixture type)

lamp type required in fixture _____

number of lamps _____

ballast type used _____

number of ballasts in fixture _____

total wattage per fixture _____

total interior wattage specified versus allowed (whole building or space by space)

total exterior wattage specified versus allowed

Additional Prescriptive Compliance

☐ 506.2.1 More Efficient Mechanical Equipment

☐ 506.2.2 Reduced Lighting Power Density

☐ 506.2.3 Energy Recovery Ventilation Systems

☐ 506.2.4 Higher Efficiency Service Water Heating

☐ 506.2.5 On-Site Supply of Renewable Energy

☐ 506.2.6 Automatic Daylighting Control Systems

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (ft) FROM PROPERTY LINES	DEGREE OF OPENINGS PROTECTION (TABLE 705.8)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
> 30	NO LIMIT	N/A	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: ☐ Yes ☒ No

Exit Signs: ☐ Yes ☒ No

Fire Alarm: ☐ Yes ☒ No

Smoke Detection Systems: ☐ Yes ☒ No

Carbon Monoxide Detection: ☐ Yes ☒ No

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: G-2

☒ Fire and/or smoke rated wall locations (Chapter 7)

☒ Assumed and real property line locations (if not on the site plan)

☒ Exterior wall opening area with respect to distance to assumed property lines (705.8)

☒ Occupancy Use for each area as it relates to occupant load calculation (Table 1004.1.2)

☒ Occupant loads for each area

☒ Exit access travel distances (1017)

☒ Common path of travel distances [Tables 1006.2.1 & 1006.3.2(1)]

☒ Dead end lengths (1020.4)

☒ Clear exit widths for each exit door

☒ Maximum calculated occupant load capacity each exit door can accommodate based on egress width (1005.3)

☒ Actual occupant load for each exit door

☒ A separate schematic plan indicating where fire rated floor/ceiling and/or roof structure is provided for purposes of occupancy separation

☒ Location of doors with panic hardware (1010.1.10)

☒ Location of doors with delayed egress locks and the amount of delay (1010.1.9.7)

☒ Location of doors with electromagnetic egress locks (1010.1.9.9)

☒ Location of doors equipped with hold-open devices

☒ Location of emergency escape windows (1030)

☒ The square footage of each fire area (202)

☒ The square footage of each smoke compartment for Occupancy Classification I-2 (407.5)

☒ Note any code exceptions or table notes that may have been utilized regarding the items above

ACCESSIBLE DWELLING UNITS
(SECTION 1107)

TOTAL UNITS	ACCESSIBLE UNITS REQUIRED	ACCESSIBLE UNITS PROVIDED	TYPE A UNITS REQUIRED	TYPE A UNITS PROVIDED	TYPE B UNITS REQUIRED	TYPE B UNITS PROVIDED	TOTAL ACCESSIBLE UNITS PROVIDED
		N/A					

ACCESSIBLE PARKING
(SECTION 1106)

LOT OR PARKING AREA	TOTAL # OF PARKING SPACES		# OF ACCESSIBLE SPACES PROVIDED			TOTAL # ACCESSIBLE PROVIDED
	REQUIRED	PROVIDED	REGULAR WITH 5' ACCESS AISLE	132" ACCESS AISLE	8' ACCESS AISLE	
TOTAL						

PLUMBING FIXTURE REQUIREMENTS
(TABLE 2902.1)

USE	WATERCLOSETS			URINALS	LAVATORIES			SHOWERS/TUBS	DRINKING FOUNTAINS	
	Male	Female	Unisex		Male	Female	Unisex		Regular	Accessible
REQD										
PROVIDED										

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc., describe below)

SCO DOT

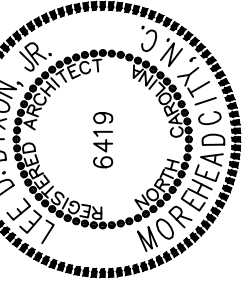


D. Dixon, Jr., AIA
252-247-2127
coastalarchitecture.net

**16 Bridges St. Ext.,
Suite C
Morehead City, NC
28557**

www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SCO ID# 21-23601-01A
CARTERET COUNTY, NORTH CAROLINA



SAFETY PLAN

21030

ED: 06/22/22

BY: MLR

BY: LDD

DISCUSSION

--	--

SHEET NO.

oo

9-2

OF

NO LIMIT OF OPENING

NO LIMIT OF OPENING

NO LIMIT OF OPENING

NO LIMIT OF OPENING

LIFE SAFETY PLAN
SCALE: 1/4" = 1' - 0"

OCCUPANCY/LOAD TYPE KEYING:

U = UTILITY

LEGEND:

⊙ F.E. FIRE EXTINGUISHER W/ STANDARD HOOK

(34.25") CLEAR EXIT WIDTH

⊗ EXIT

 EMERGENCY LIGHT

NEW DOOR

EXIT CAPACITY

171 ALLOWABLE	3 ACTUAL
---------------	----------

EXIT CAPACITY



PROPOSED
LOCATION OF
NEW SALT SHED

- NOTE:
- OWNER TO PROVIDE ROUGH GRADING UP TO BUILDING SUBGRADE.
 - OWNER WILL PROVIDE LOCATION OF BUILDING.
 - OWNER WILL BE RESPONSIBLE FOR ANY UNSUITABLE SOILS.
 - CONTRACTOR IS RESPONSIBLE FOR:
 - BUILDING LAYOUT.
 - FOOTING EXCAVATION.
 - MINOR FINISH GRADING AROUND BUILDING.
 - COMPACTION FOR BUILDING PAD AND FOOTINGS.
 - STONE UNDER SLAB.
 - ANY EXCESS SOIL MAY BE STORED ON SITE AT OWNERS DIRECTION.
 - PROJECT SIGN.
 - SIGN - FIREARMS ARE PROHIBITED ON THIS JOBSITE.

NEW SITE PLAN
SCALE: N.T.S.

Coastal
Architecture

- Architectural Design
- Planning
- Interiors

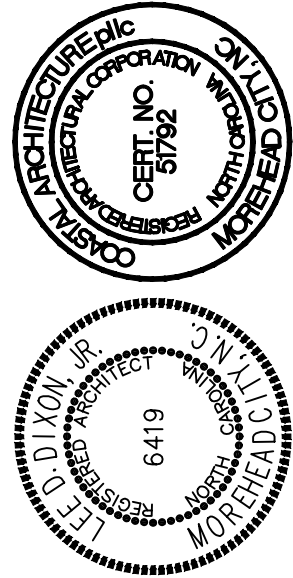
**AIA**
Member of the American Institute of Architects

Lee D. Dixon, Jr., AIA
252-247-2127
lee@coastalarchitecture.net

4206 Bridges St. Ext., Suite C
Morehead City, NC 28557

www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SCO ID# 21-23601-01A
CARTERET COUNTY, NORTH CAROLINA



NEW SITE PLAN

21030

ISSUED: 06/22/22

DWG BY: MLR

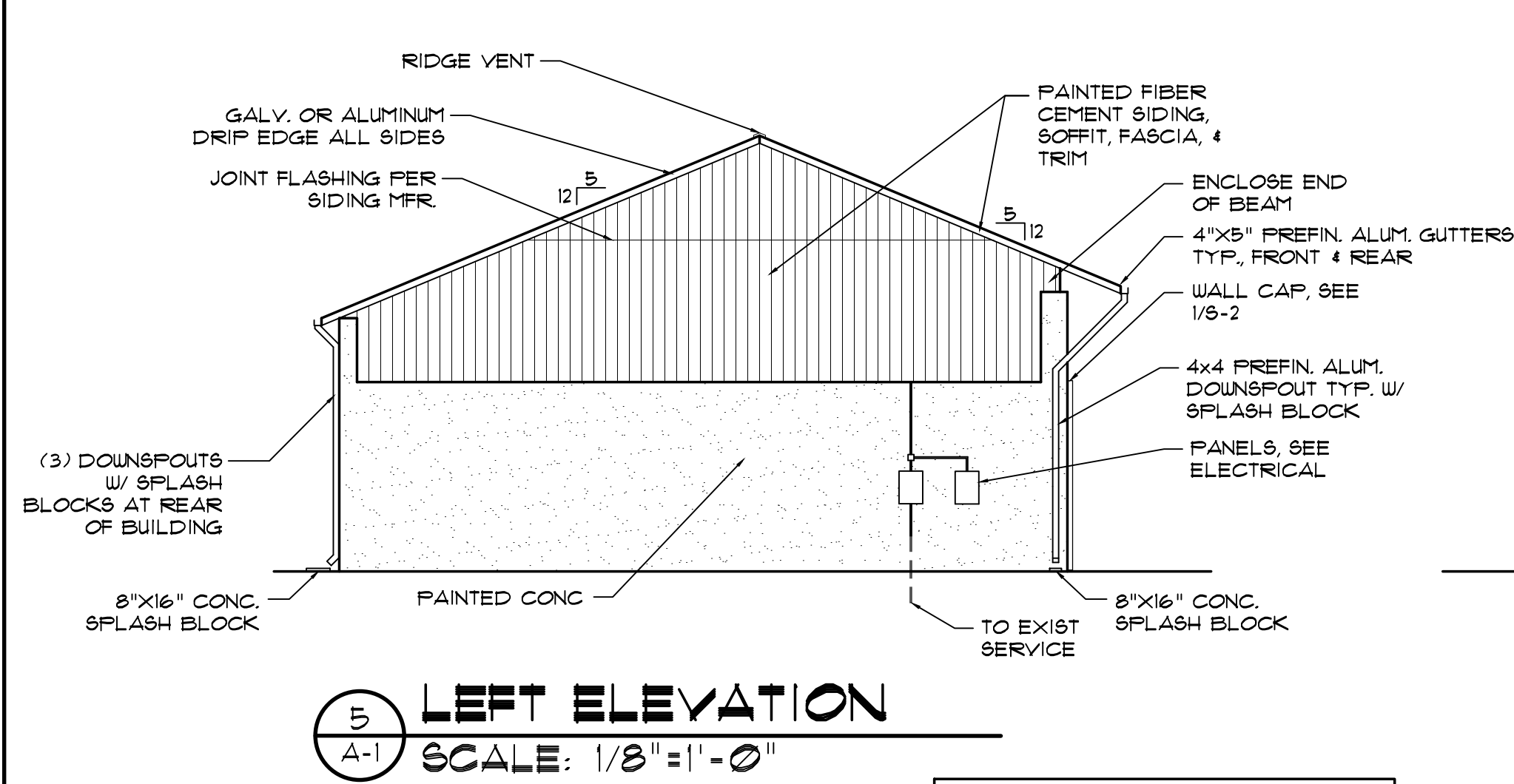
CKD BY: LDD

REVISIONS

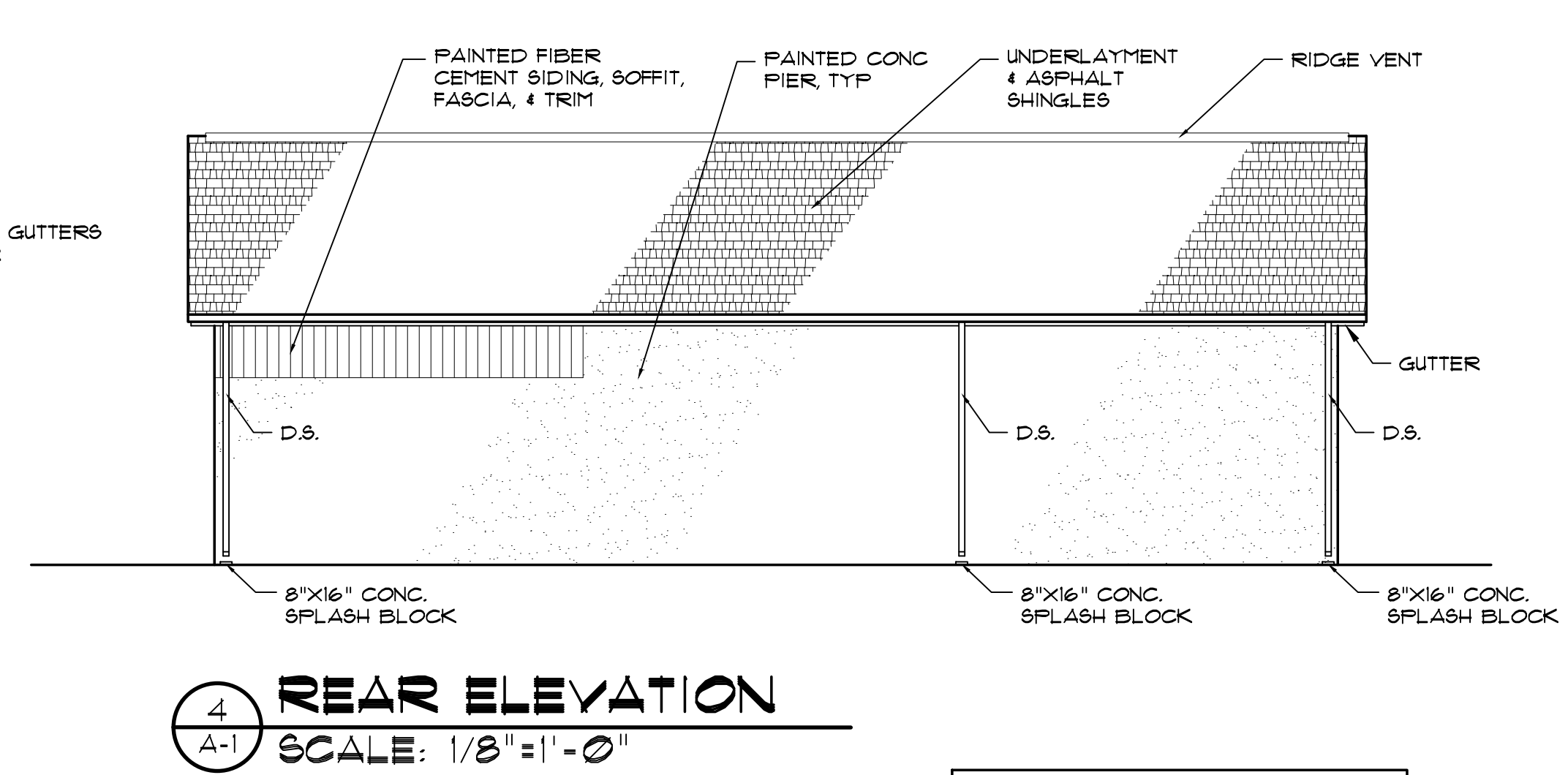
SHEET NO.

SD-1

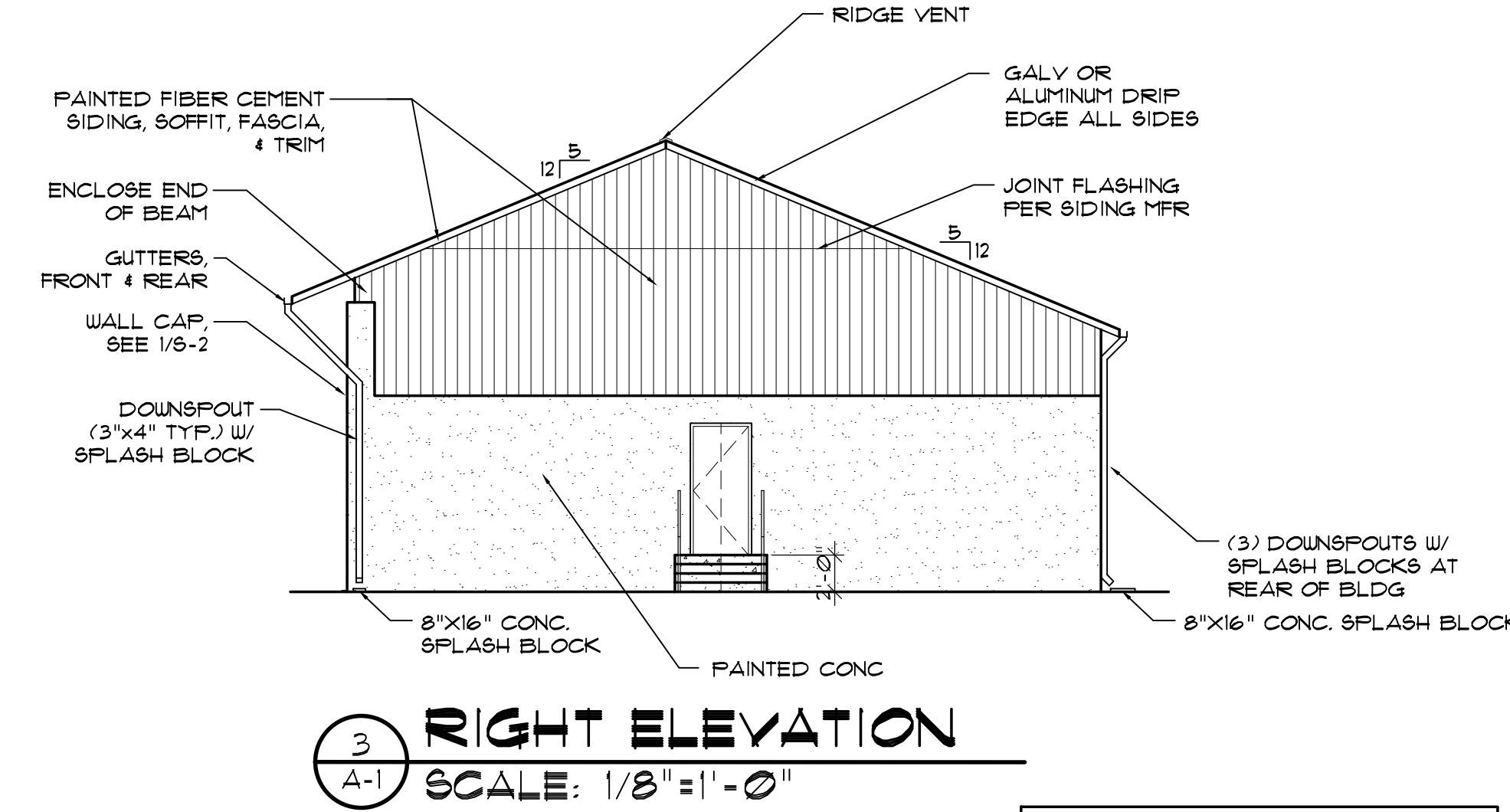
OF



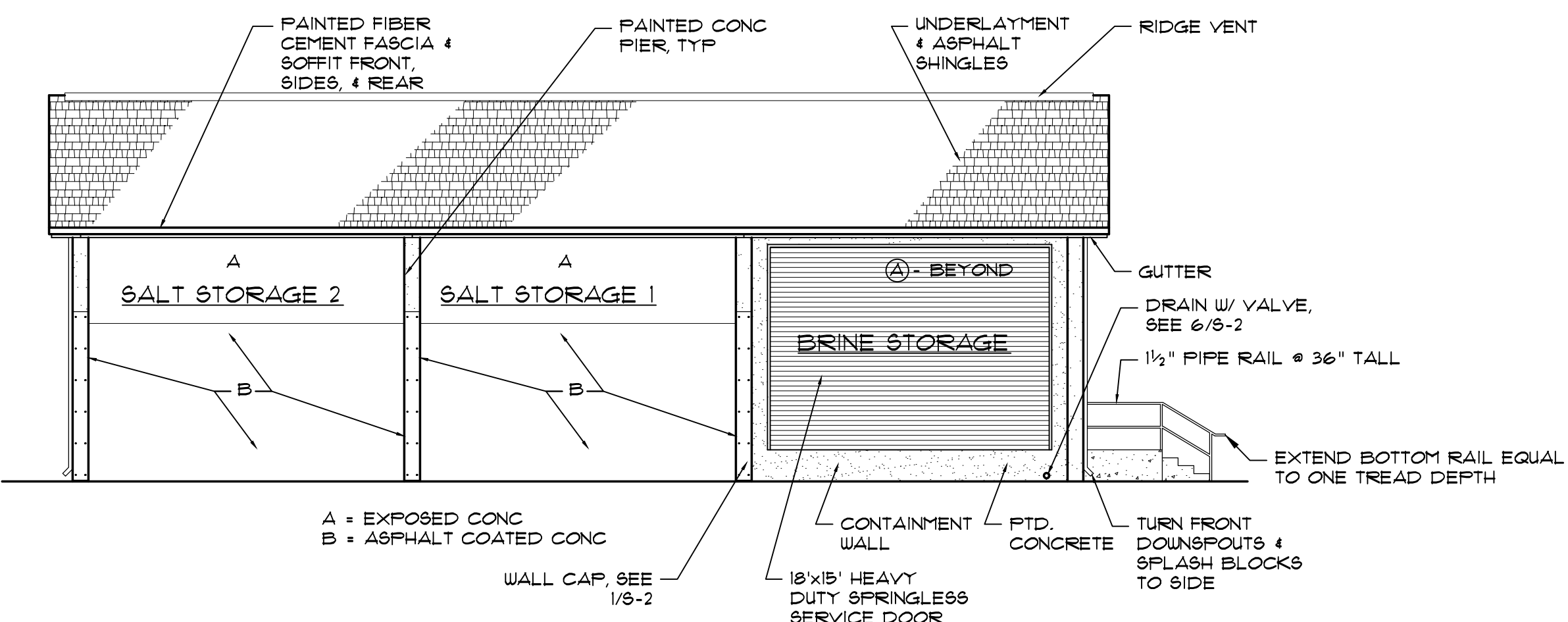
NOTE: TRANSITION ALL DOWNSPOUTS
TO 3" GALV. STEEL PIPE FOR 10'-0"
ABOVE GRADE.



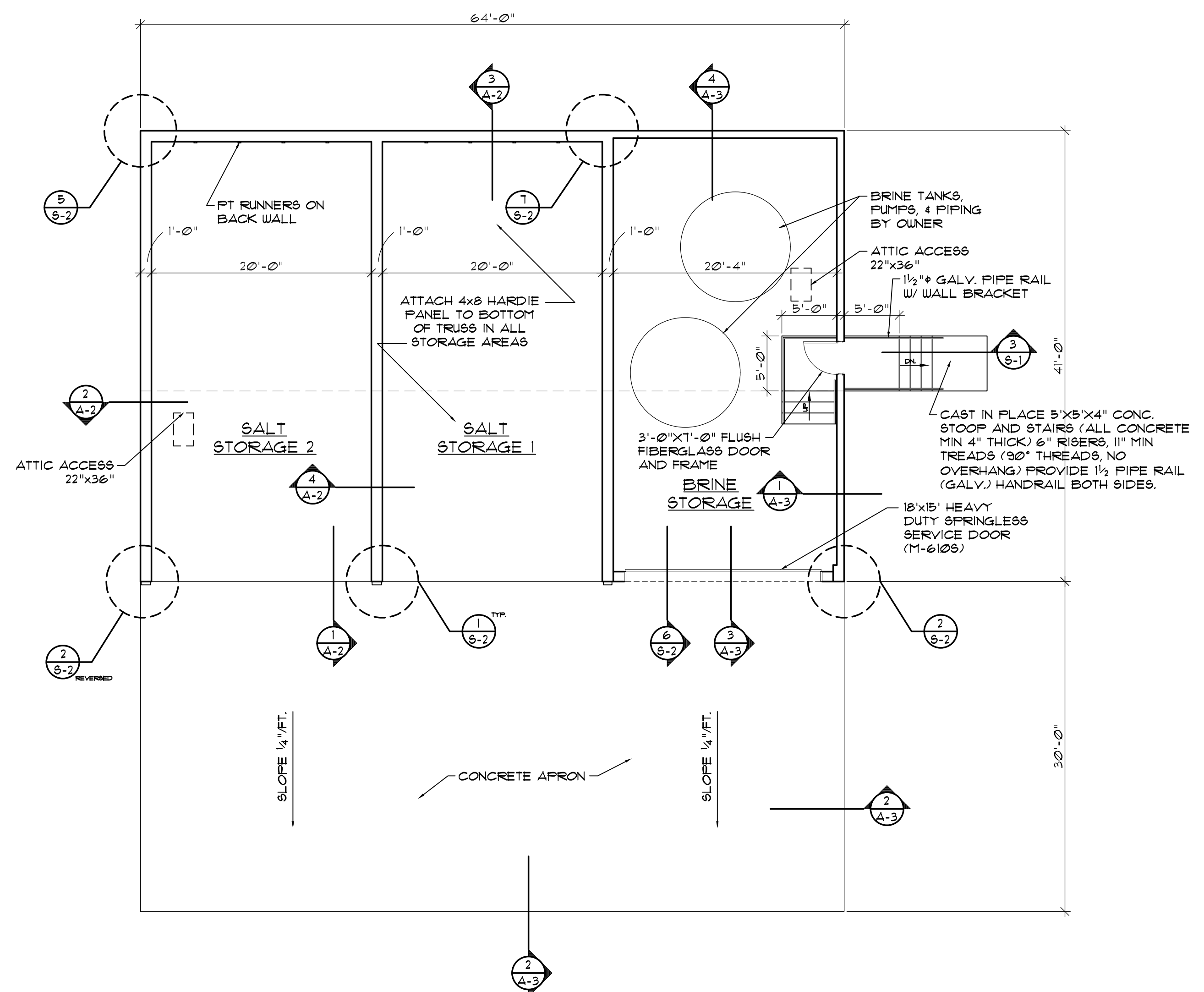
NOTE: TRANSITION ALL DOWNSPOUTS
TO 3" GALV. STEEL PIPE FOR 10'-0"
ABOVE GRADE.



NOTE: TRANSITION ALL DOWNSPOUTS
TO 3" GALV. STEEL PIPE FOR 10'-0"
ABOVE GRADE.



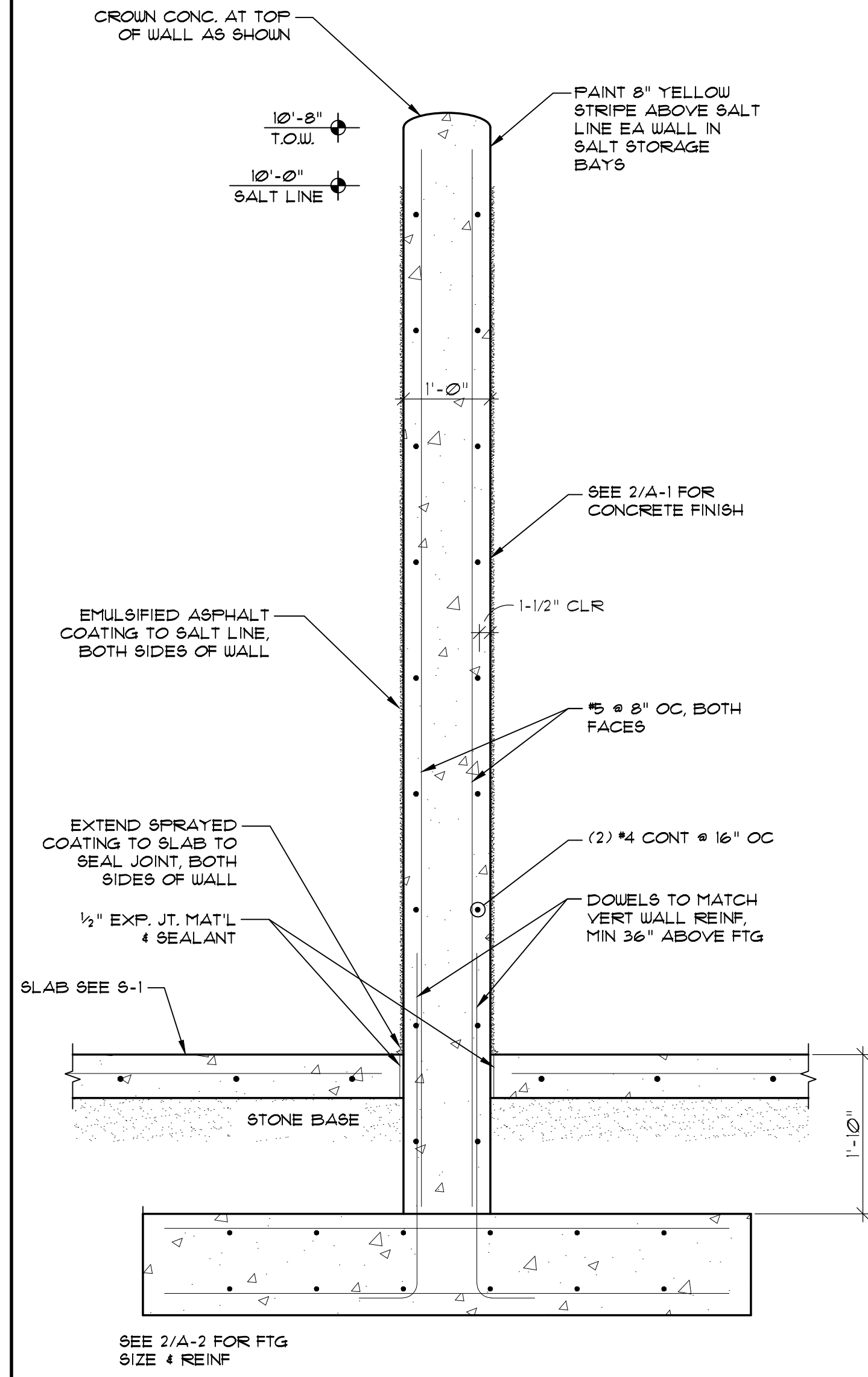
NOTE: TRANSITION ALL DOWNSPOUTS
TO 3" GALV. STEEL PIPE FOR 10'-0"
ABOVE GRADE.



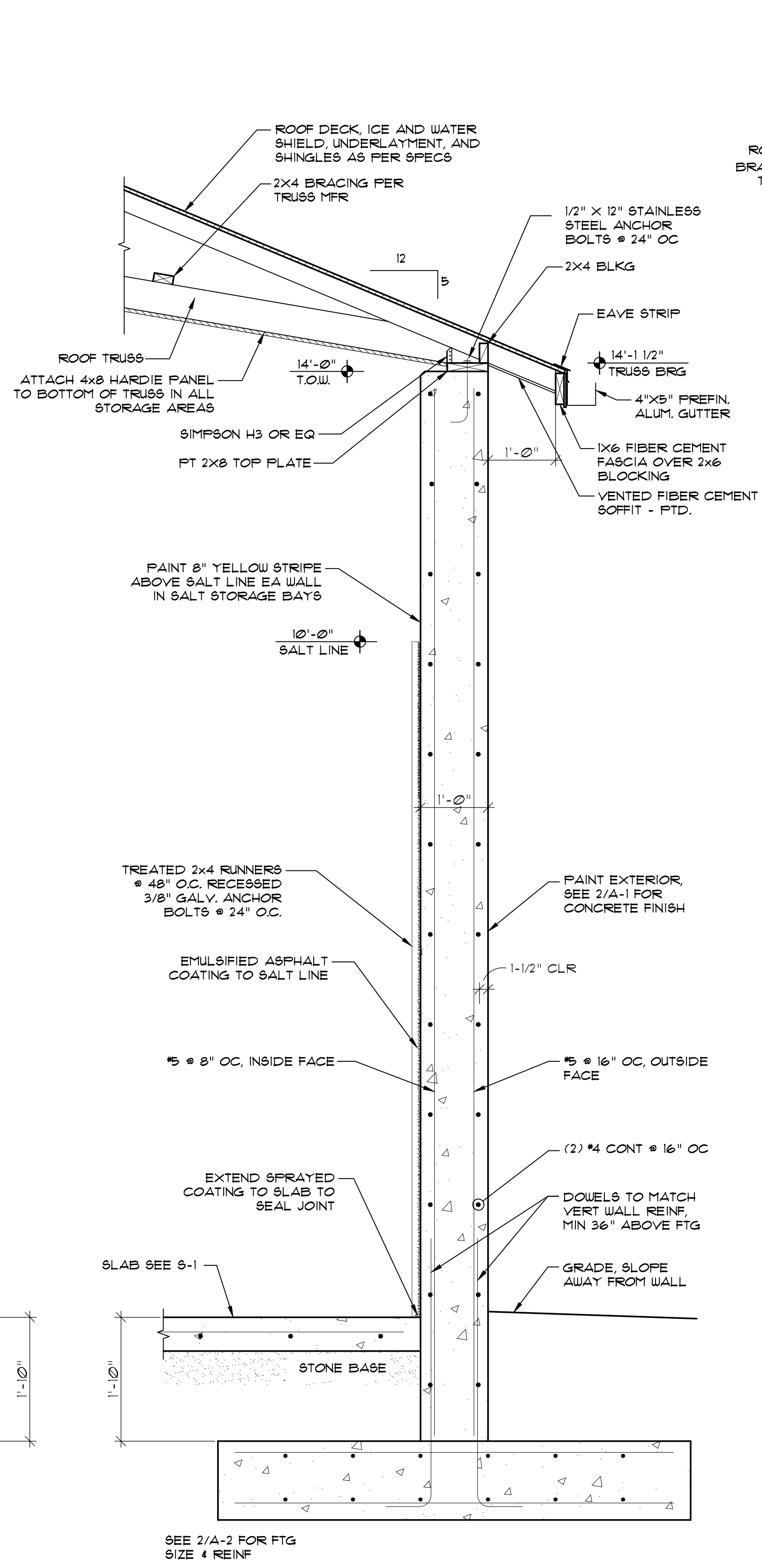
NOTE:

1. PRIME & PAINT ALL SIDING,
FASCIA, SOFFITS, & EXTERIOR
EXPOSED FRMG.

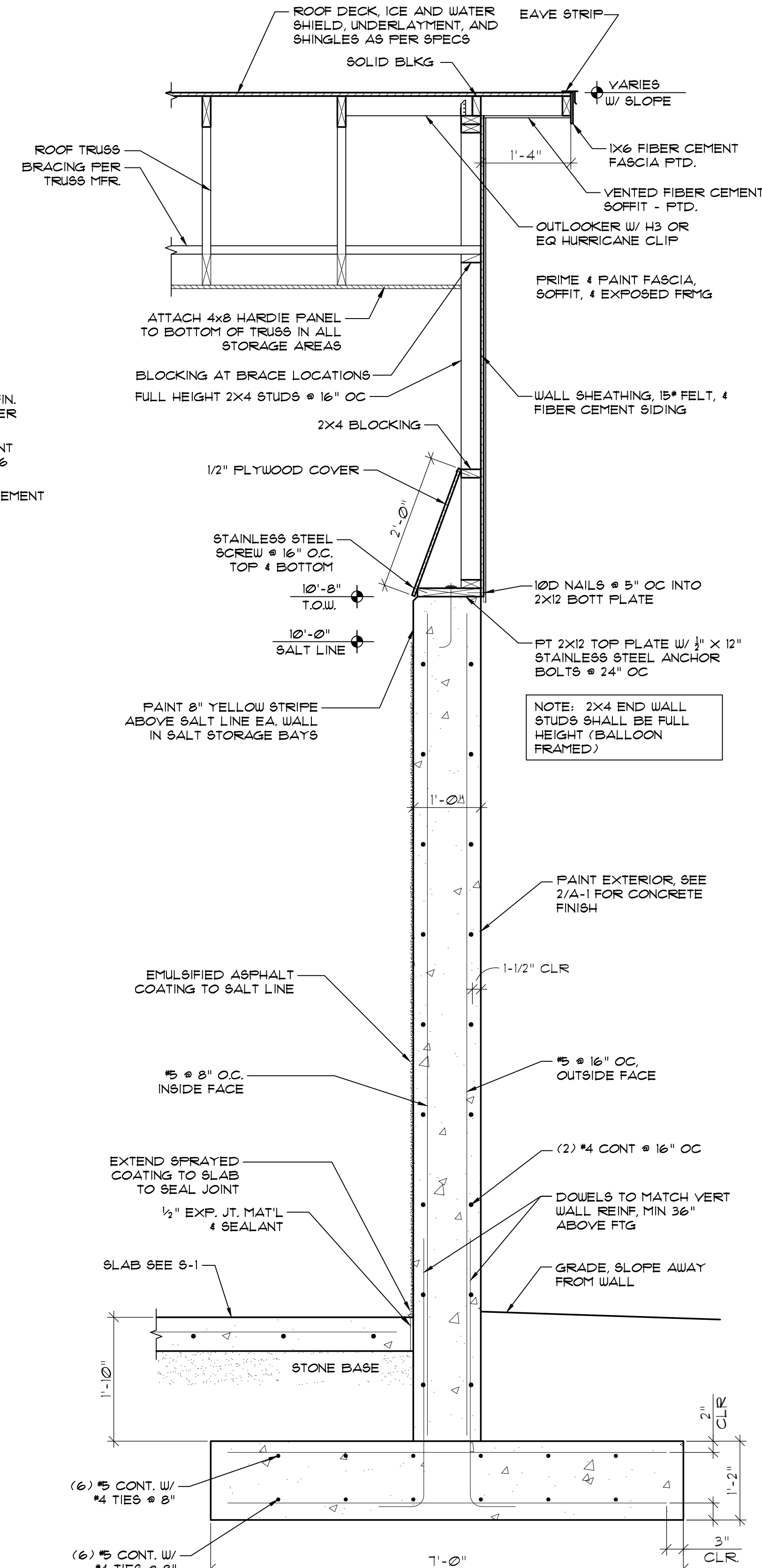
2. DRIVE SIDING NAILS FLUSH PER
MFR. INSTRUCTIONS. REMOVE ANY
BURRS & LOOSE MATERIAL TO
PROVIDE SMOOTH FINISH. ALL
NAILS TO BE STAINLESS STEEL.



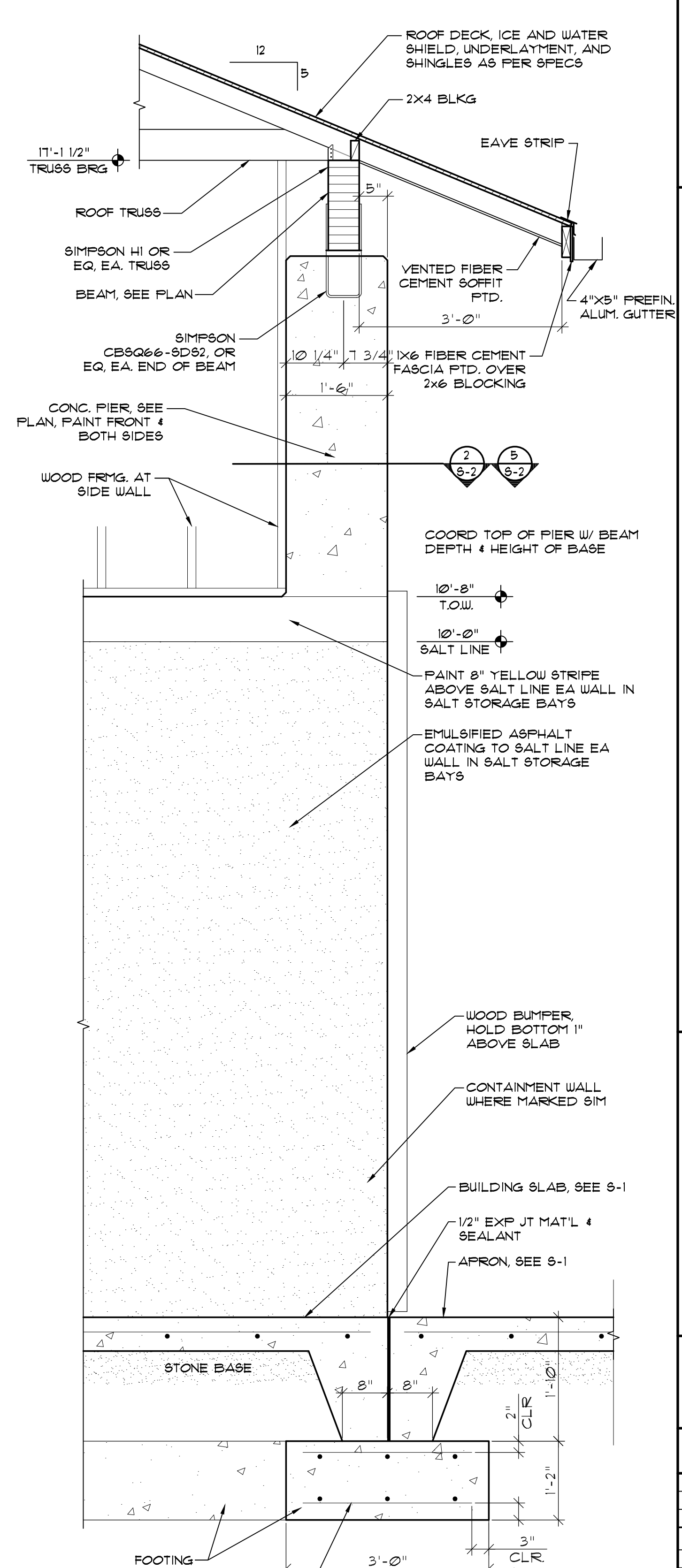
4 SECTION AT INTERIOR WALL
A-2 SCALE: 3/4"=1'-0"



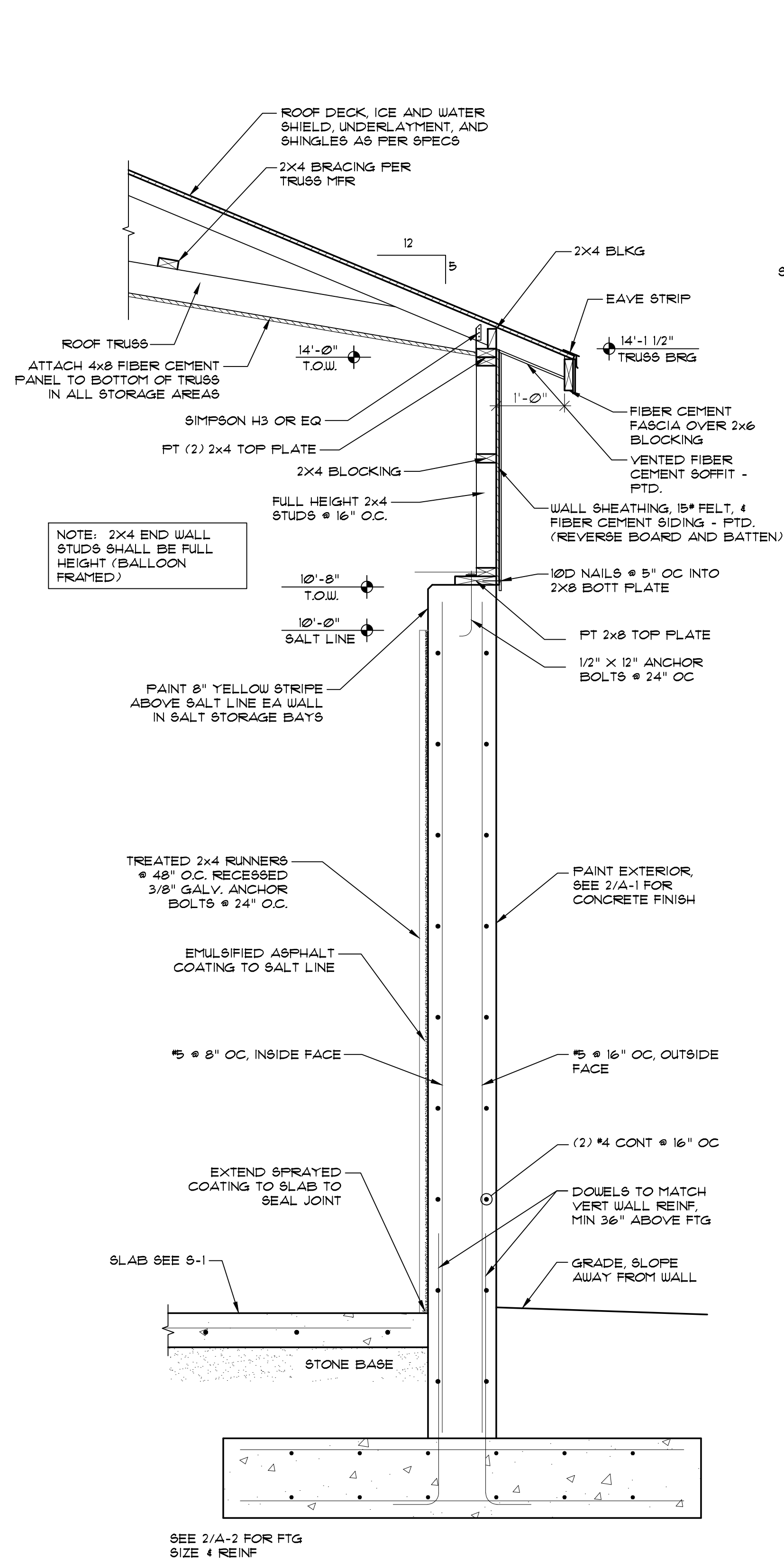
3 SECTION AT REAR WALL
A-2 SCALE: 3/4"=1'-0"



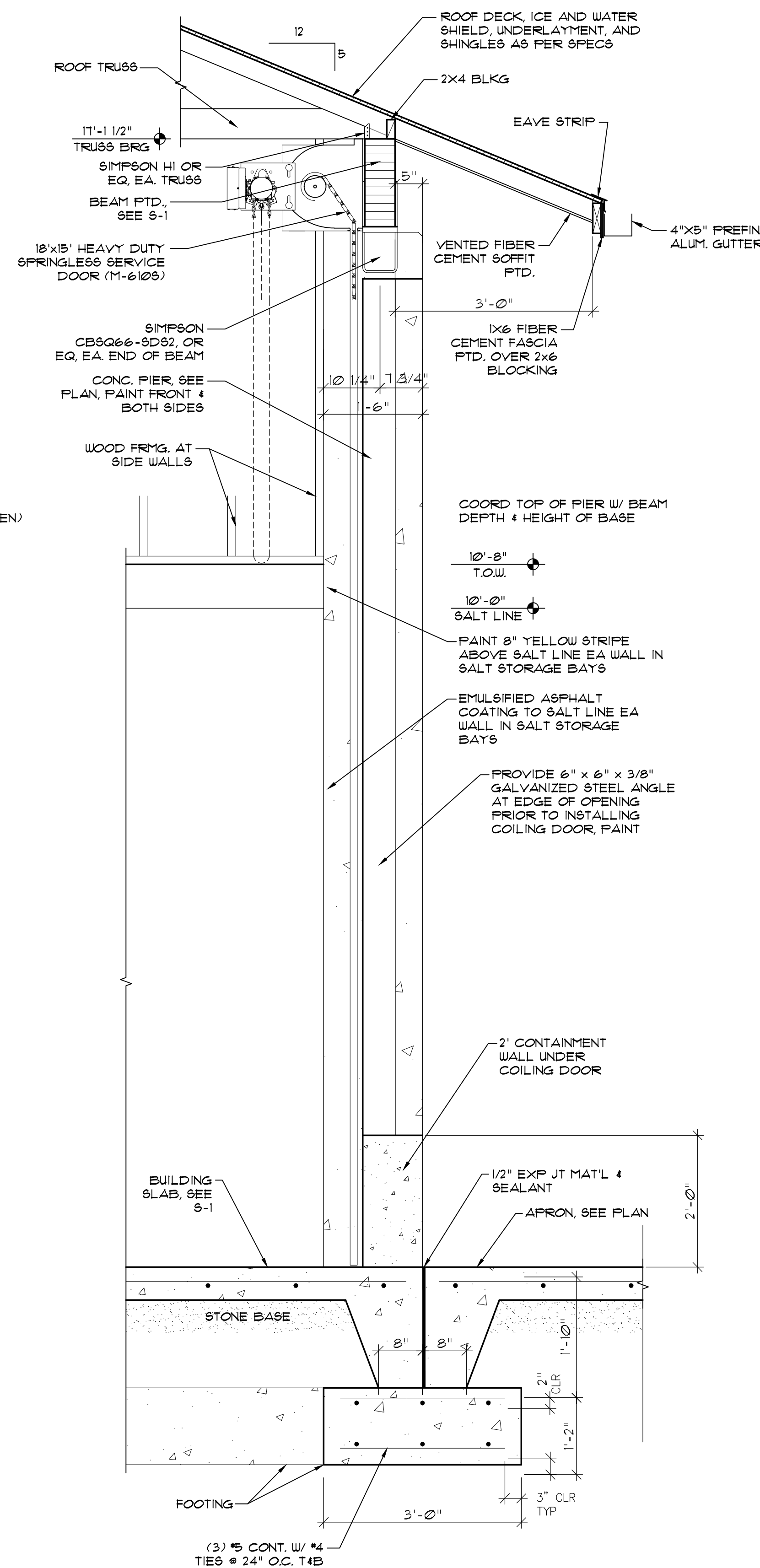
2 SECTION AT SIDE WALL
A-2 SCALE: 3/4"=1'-0"



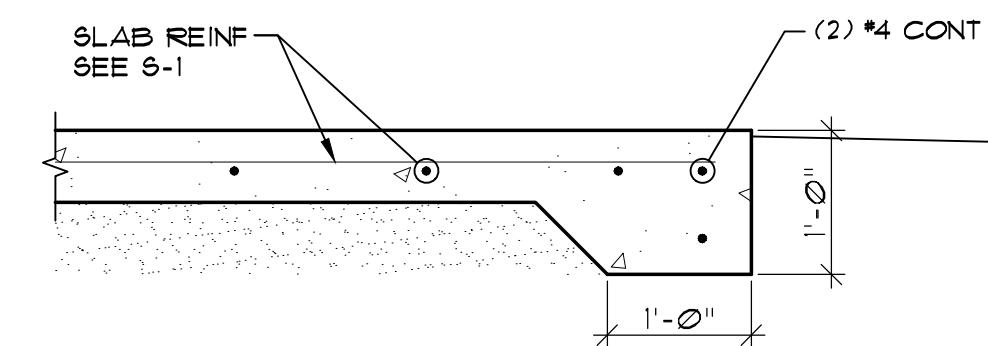
1 SECTION AT FRONT WALL
A-2 SCALE: 3/4"=1'-0"



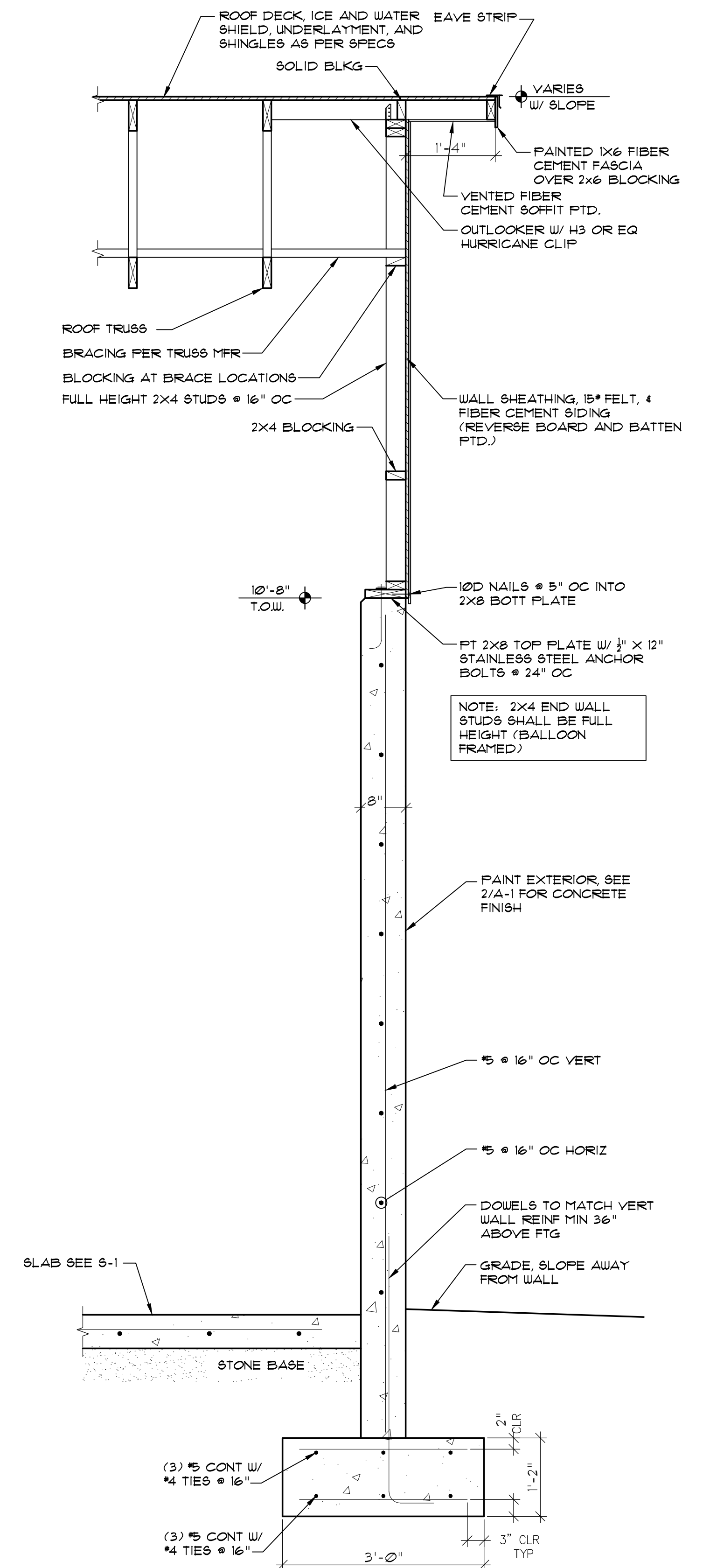
4 SECTION AT REAR WALL
A-3 SCALE: 3/4"=1'-0"



3 SECTION AT FRONT WALL
A-3 SCALE: 3/4"=1'-0"



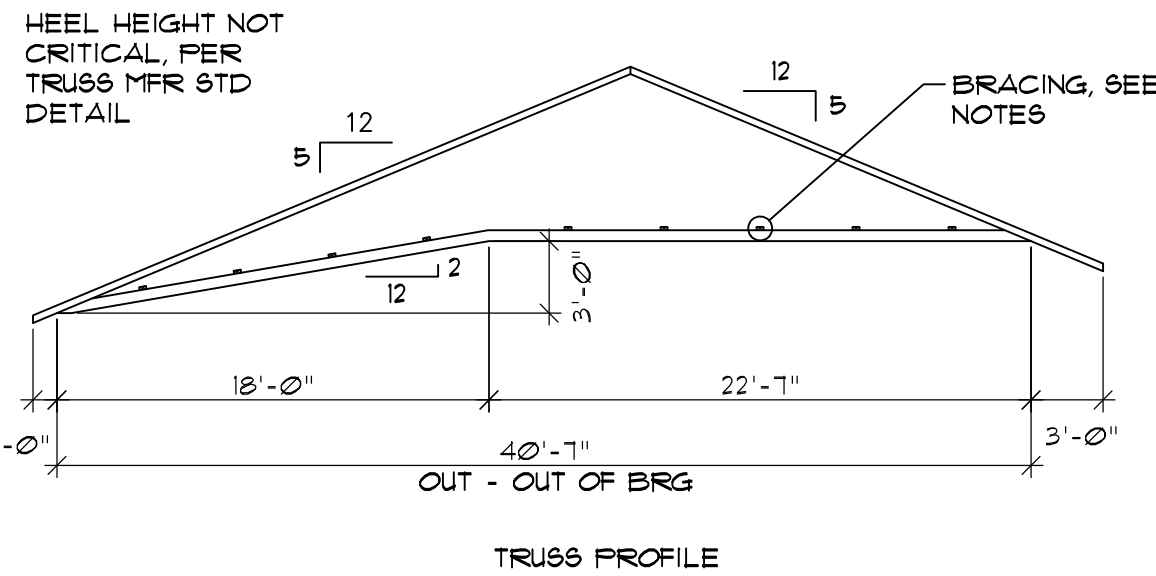
2 APRON SLAB EDGE
A-3 SCALE: 3/4"=1'-0"



1 SECTION AT SIDE WALL
A-3 SCALE: 3/4"=1'-0"

NOTES:

1. PROVIDE TRUSS SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NC, SHOWING TRUSS LAYOUT, TRUSS DESIGNS, & REQUIRED BRACING.
2. TRUSS MFR NOTE THERE IS NO CEILING & BOTTOM CHORD BRACING MAY BE REQUIRED. GC NOTE BOTTOM CHORD BRACING IS SHOWN ON TRUSS CALCULATION SHEET & IS IN ADDITION TO THE TEMPORARY BRACING.
3. THIS BUILDING MEETS CRITERIA FOR PARTIALLY ENCLOSED PER ASCE 7-05 WIND REQUIREMENTS.
4. WALL SHEATHING SHALL BE 1/2" APA RATED SHEATHING, 32/16 SPAN RATING, EXPOSURE 1, ATTACHED W/ 8D NAILS @ 6" OC ON PANEL EDGES & 8" OC ALONG INTERMEDIATE SUPPORTS, UON. PROVIDE BLOCKING AT ALL PANEL EDGES ON EXTERIOR WALLS.
5. ROOF SHEATHING SHALL BE 3/8" APA RATED SHEATHING, ATTACHED W/ 10D NAILS @ 6" OC ON PANEL EDGES, & @ 8" OC, AT INTERIOR.
6. PT DENOTES PRESSURE TREATED IN ACCORDANCE W/ AWWA STANDARDS.
7. SIDING, VENTED SOFFIT, & FASCIA SHALL BE PAINTED FIBER-CEMENT BOARD, COLOR SELECTION BY OWNER.
8. BM-1 = 5'-1/2" X 16" GLULAM, 24F-V4, BALANCED, & PRESSURE TREATED.



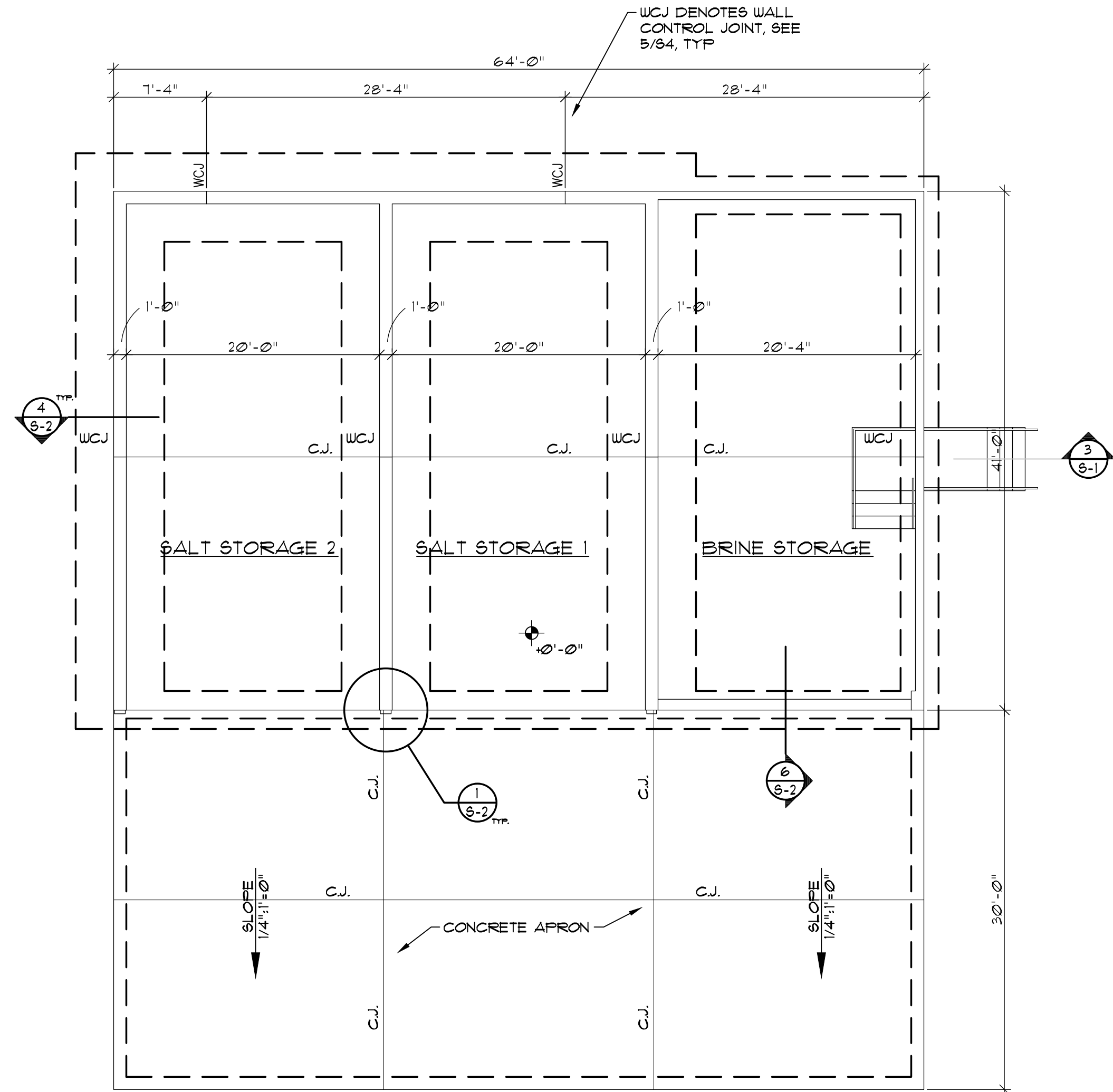
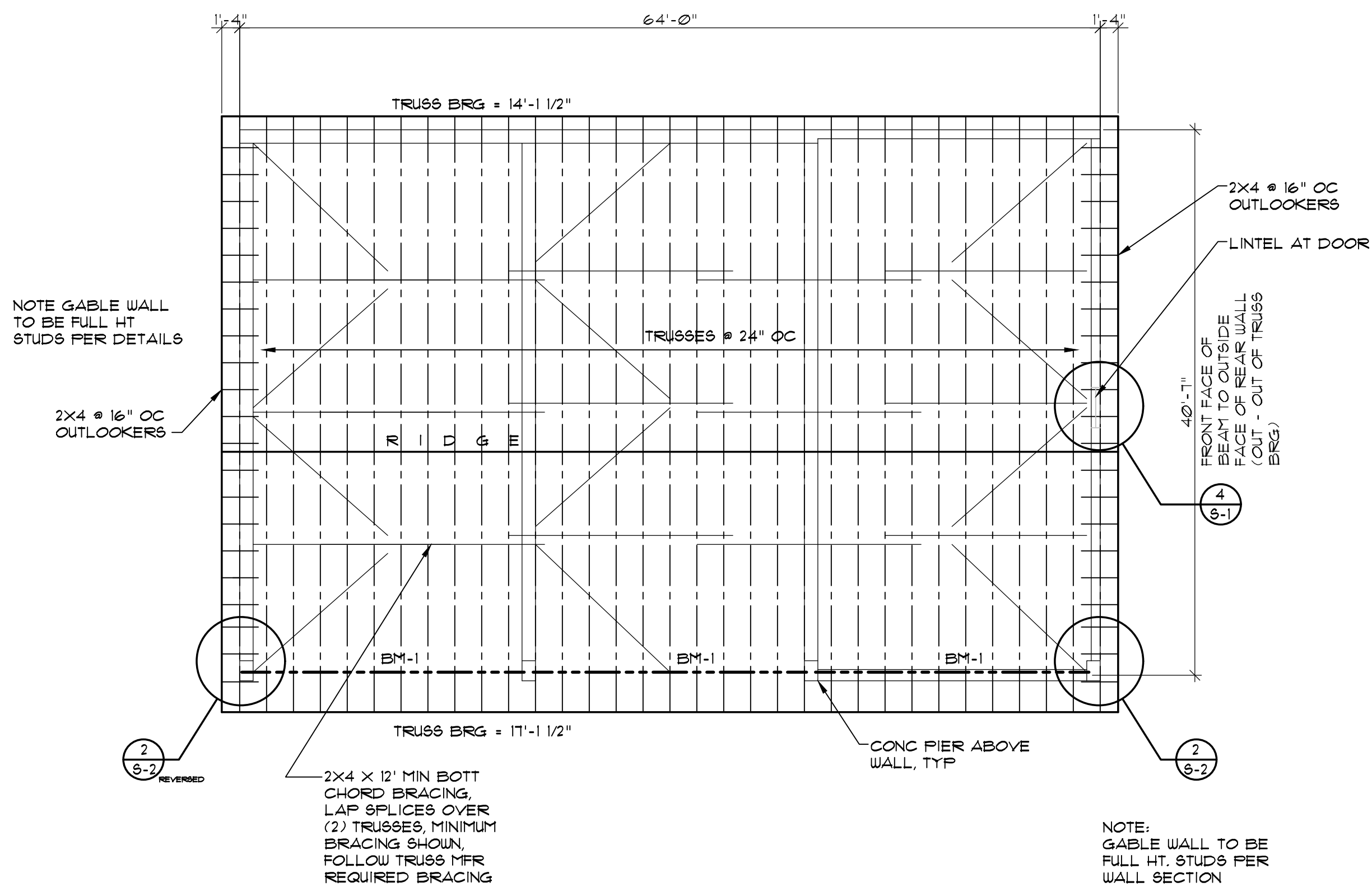
NOTES:

1. COMPRESSIVE STRENGTH OF CONCRETE FOR FOOTINGS = 4000 PSI.
2. CONCRETE FOR WALLS & SLABS SHALL HAVE 0.40 MAXIMUM W/C RATIO, & MINIMUM 5000 PSI COMPRESSIVE STRENGTH. RETARDING ADMIXTURE MAY BE USED AT GC OPTION. SUBMIT MIX DESIGN FOR APPROVAL.
3. EXPOSED CONCRETE SHALL INCLUDE 5% ENTRAINED AIR.
4. ALL REINF STEEL SHALL BE ASTM A 615, GR 60. LAP ALL SPLICES 48 X BAR DIAMETER.
5. ELEVATIONS SHOWN ARE ABOVE REFERENCE FLOOR ELEVATION = +0'-0".
6. COORDINATE LOCATION & INSTALLATION OF ELECTRICAL WORK W/ OWNER.
7. ELECTRICAL GROUND TO BE ATTACHED TO FOOTING REINFORCEMENT, SEE ELECTRICAL PLANS.
8. ALL COMPACTION UNDER SLABS TO BE 98% UNLESS OTHERWISE NOTED.

PREPARE CONCRETE WALL SURFACES AS FOLLOWS:
INTERIOR - PATCH TIE HOLES & DEFECTS, REMOVE FINIS FLUSH W/ SURFACE.

EXTERIOR - PATCH TIE HOLES, BUG HOLES, & OTHER DEFECTS, REMOVE FINIS FLUSH WITH SURFACE. PATCH HOLES THAT CANNOT BE SEALED W/ BLOCK FILLER & PAINT.

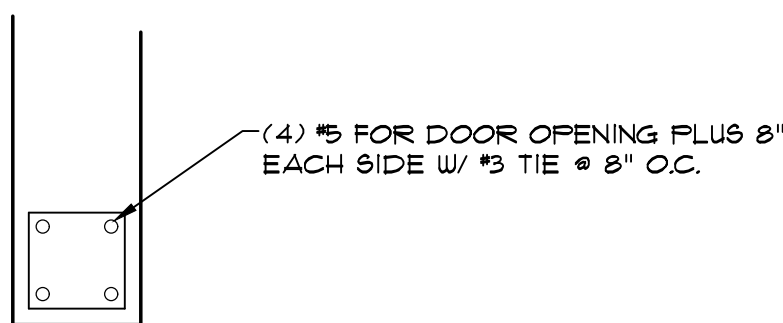
INTERIOR FLOOR & APRON SHALL BE MINIMUM 6" CONC SLAB REINF W/ EPOXY COATED #4 @ 16" OC, EW OVER 6" #1 STONE BASE.



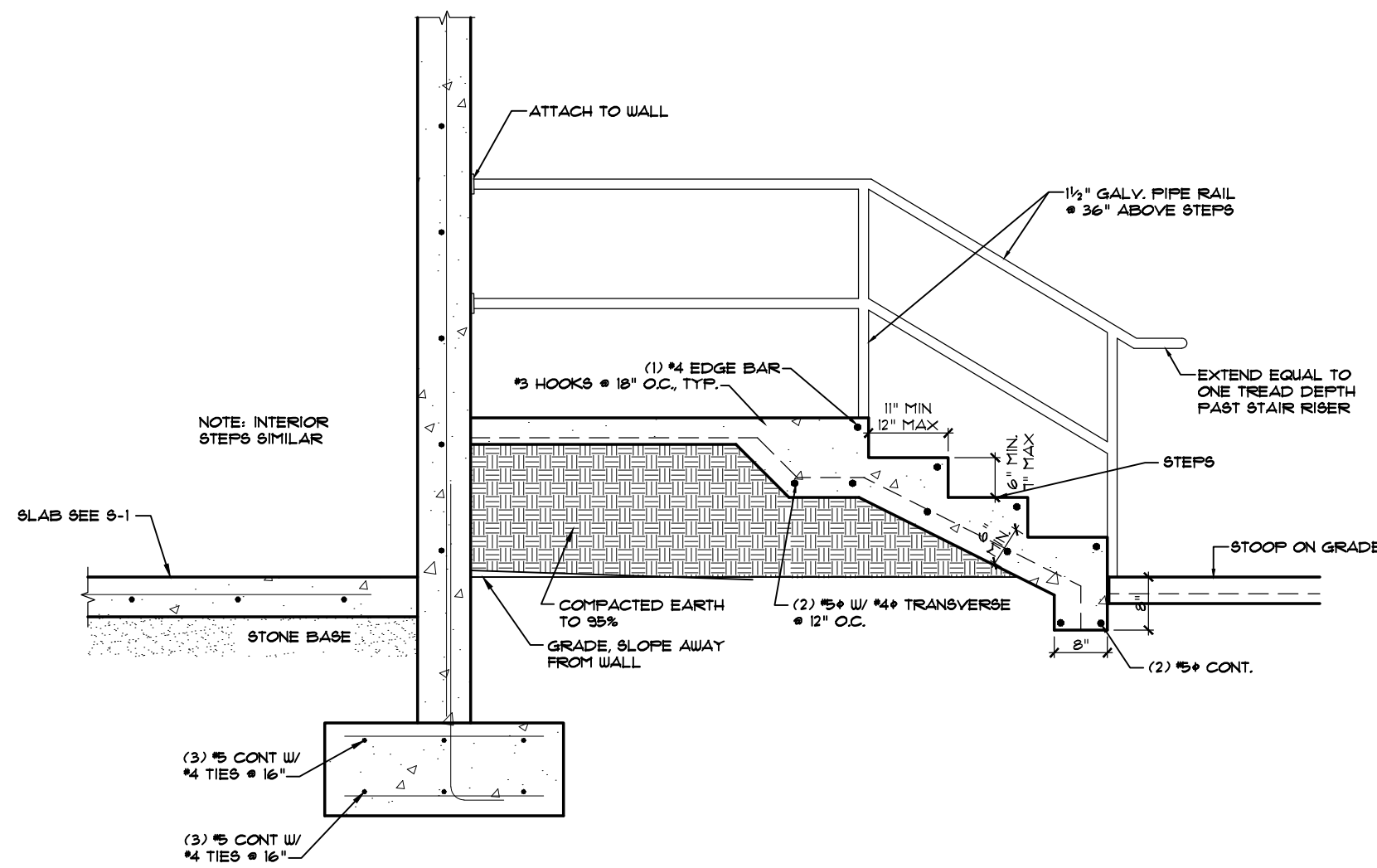
SITE NOTES:

1. OWNER WILL PROVIDE ROUGH GRADING UP TO THE BUILDING SUB-GRADE.
2. OWNER WILL PROVIDE LOCATION OF BUILDING & ORIENTATION. CONTRACTOR IS RESPONSIBLE FOR BUILDING LAYOUT. AFTER LAYOUT, VERIFY BUILDING LOCATION W/ NCDOT PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR FOOTING EXCAVATION, COMPACTION FOR BUILDING PAD AND STONE APPLICATION UNDER SLAB & MINOR GRADING AROUND OUTSIDE OF BUILDING. SOIL REMOVED DURING EXCAVATION MAY BE STORED ON SITE, COORDINATE LOCATION W/ OWNER.
4. UNSUITABLE SOILS WILL BE THE RESPONSIBILITY OF THE OWNER.

4 LINTEL AT DOOR
SCALE: 1" = 1'-0"



3 STAIR DETAIL
SCALE: 1/2" = 1'-0"



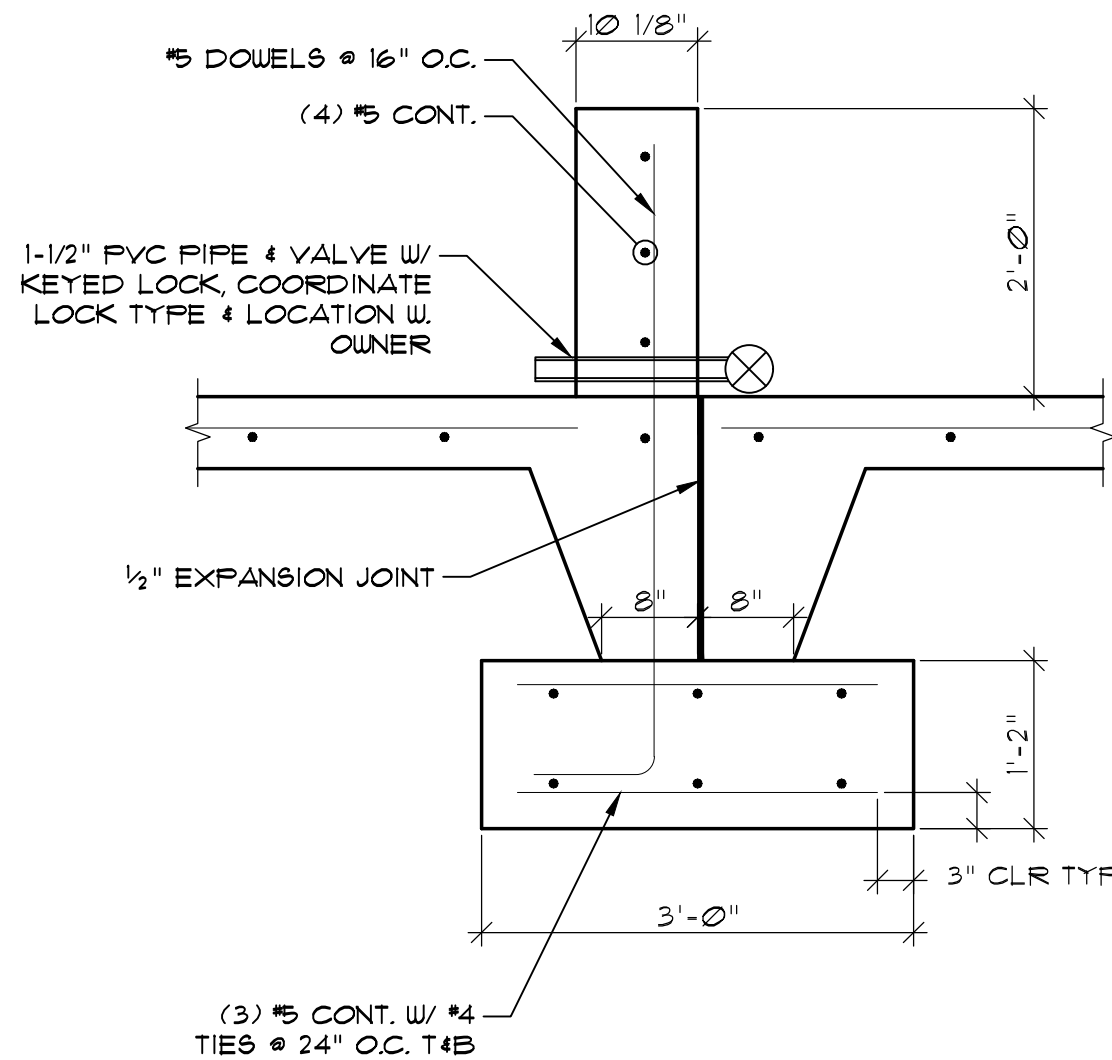
GENERAL NOTES:

- A. GENERAL
- See specifications for further information. In case of conflict between specifications & drawings, contact architect for resolution.
 - Contractor is responsible for coordination & distribution of all changes in contract documents to all subcontractors.
 - Contractor shall verify all field conditions, elevations, & dimensions prior to construction. Do not scale from plans.
 - Means & methods of construction, including temporary bracing, shoring, & jobsite safety, are the responsibility of the contractor.
 - Structural frame shall be braced until erection is complete & permanent connections & bracing are installed.
 - Provide silt fence or other erosion & sediment control measures as required.
 - If demolition is included in project, sawcut all edges of existing slab and asphalt to remain adjacent to new construction.
- B. FOUNDATION
- Footing excavations shall be reviewed by a geotechnical engineer or construction testing agency approved by the architect or engineer.
 - Footing depths shown are based on geotechnical investigation or presumptive soil properties. Soft or unsuitable soils shall be removed & replaced with suitable fill as specified.
 - Under slabs & footings, remove all topsoil, trash, & organic material, & replace with select fill compacted to 95% maximum density as measured by the Standard Proctor Method (ASTM 698) in 12 inch maximum lifts. The top 12" shall be compacted to 98% maximum density.
 - Contractor is responsible for shoring while excavating near existing structures.

- C. CONCRETE
- See plans for required compressive strength of concrete.
 - Coordinate floor slopes and depressions with arch and plumbing plans. Maintain specified slab thickness below depressed or sloped areas.
 - If not specified on plans, provide sawed slab control joints in slabs on grade spaced at not more than 48 times the slab thickness.
 - Reinforcing steel shall meet ASTM A 615, Grade 60.
 - Welded wire reinforcement shall conform to ASTM A 185 & A 82.
 - Grout under all columns & beam bearing plates with non-shrink, non-metallic grout which meets ASTM C 1107.
 - Clear distance from face of concrete to main reinforcing:
Suspended slabs and joists: 1"
Grade beams, pedestals, columns, walls: 2"
Footings & walls cast against earth: 3"
 - Provide (2) #4 x 48" diagonal corner bars at center of slab at all corners of floor slab openings.
 - Lap all reinforcement splices 48 bar diameters, UON.
 - Detailing, fabrication, & installation of reinforcing steel shall conform to ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures" (ACI 315).
 - Workmanship, tolerances, & concrete placement shall conform to "Standard Specifications for Structural Concrete" (ACI 301).
 - Chamfer exposed edges of concrete 3/4", UON.
 - Anchor bolts shall conform to ASTM F 1554, Grade 36. Anchor bolts, nuts, & washers shall be galvanized.
14. SOIL COMPACTION UNDER SLABS TO BE 98%.

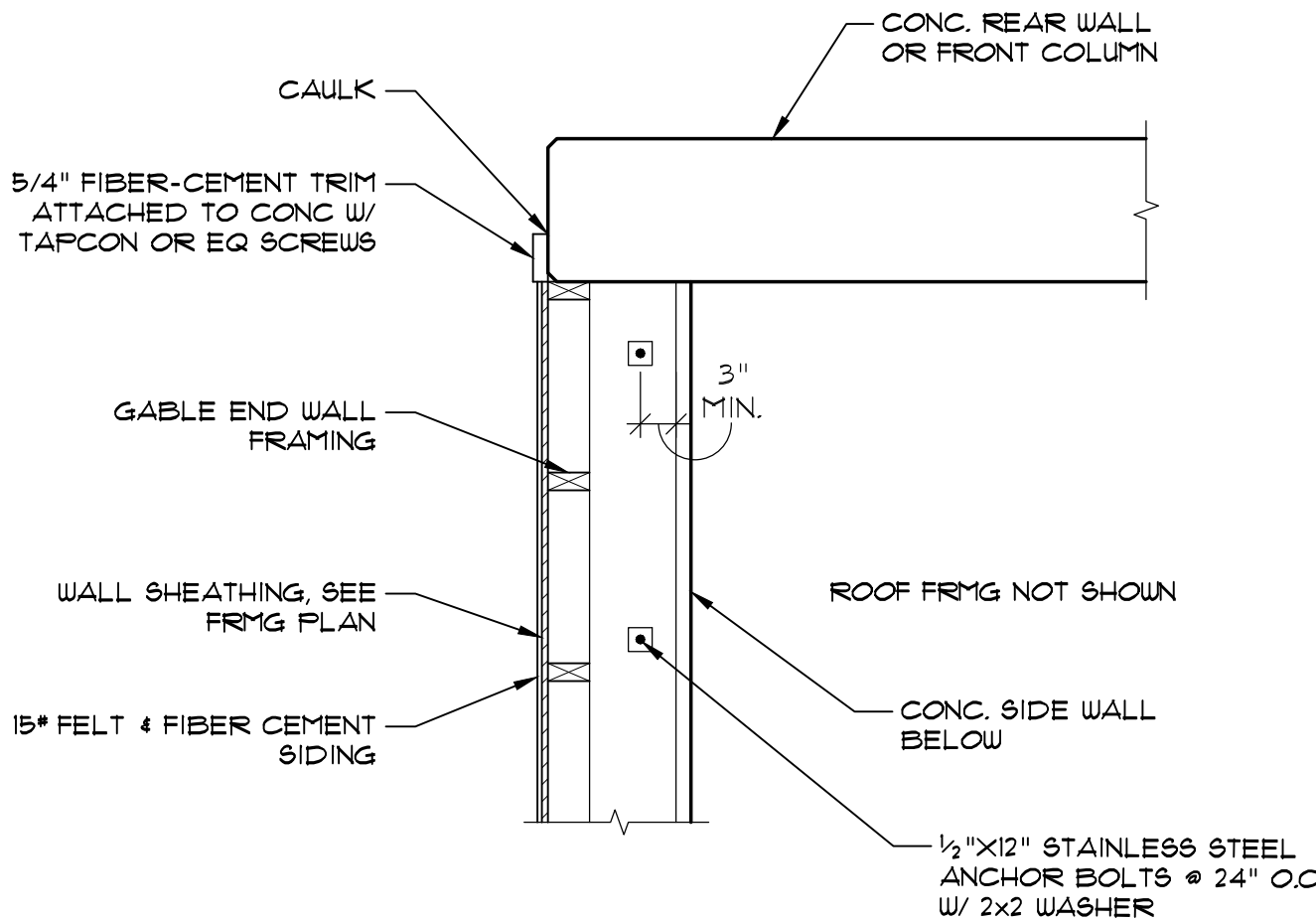
- F. WOOD
- Structural lumber shall be SPF #2 or better, UON. Wood for fabricated trusses shall be SYP #2 or better, except that webs may be SYP #3.
 - Wood in contact with concrete or masonry shall be treated.
 - Straps, ties, hangers, & other connection hardware shall be galvanized.
 - Connections not otherwise detailed shall be in accordance with Tables 2304.9.1.1 thru 2304.9.1.6 of the NC State Building Code.
 - Trusses shall be designed for the full dead & live loads specified in the contract. Submit truss shop drawings bearing the seal of a registered professional engineer licensed in the state of NC. Show truss layout & truss designs including required bracing. Bracing design is the truss designer's responsibility.
 - Contractor shall install both temporary and permanent bracing. Note that permanent bracing is often shown on individual truss calculation pages instead of the truss layout sheet, especially where there is no hard ceiling applied to truss.
 - Additional bracing may be required by engineer of record as indicated on plans for support of gable walls or other items.
 - Install blocking in walls & ceiling where required for partitions, fixtures, & other misc items. Coordinate with all trades.

NOTE:
PAINT EXPOSED AREAS
OF CONTAINMENT WALL



6
5-2
CONTAINMENT WALL
SCALE: 3/4"=1'-0"

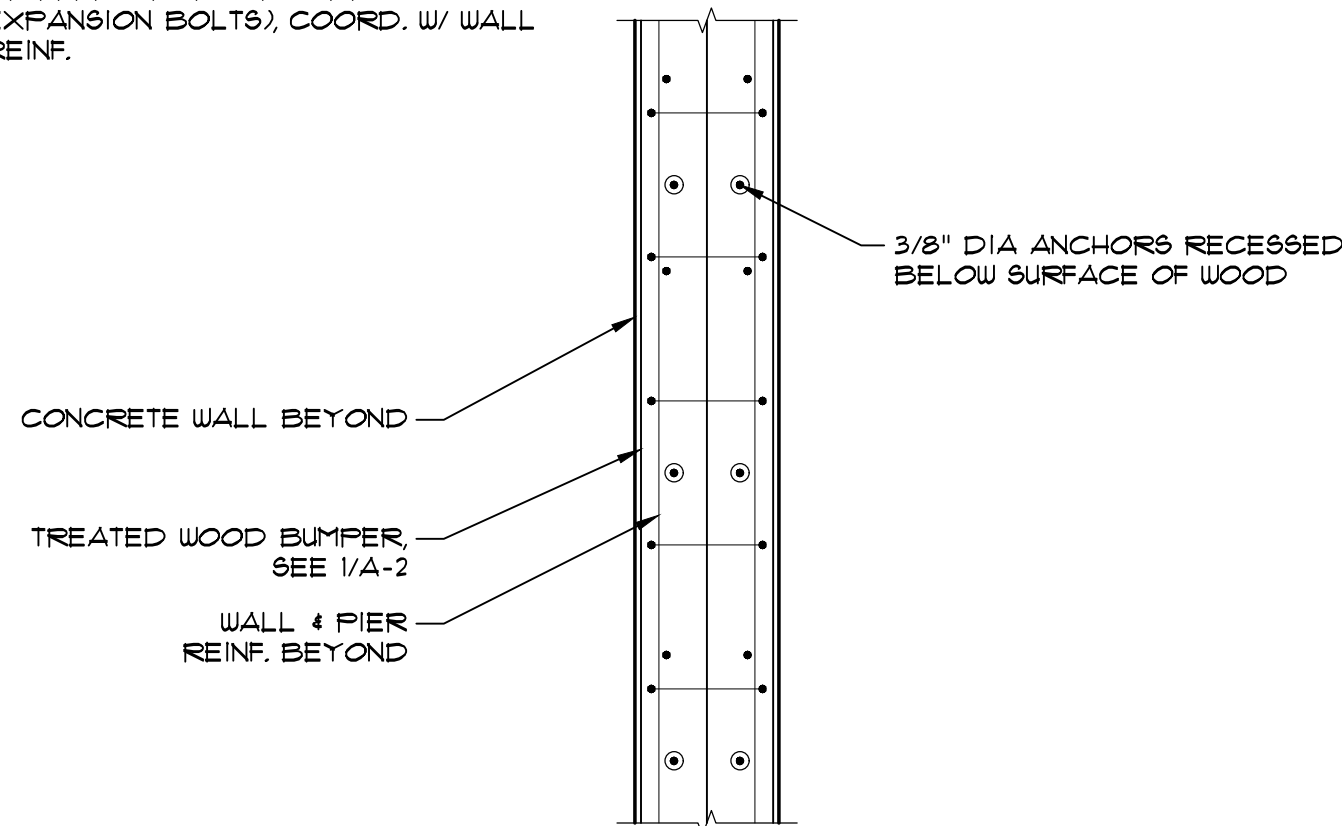
NOTE:
THIS DETAIL APPLIES AT EA END OF
GABLE WALLS, AT FRONT COLUMN,
EXTEND WALL FRAMING TO ENCLOSE
END OF BEAM



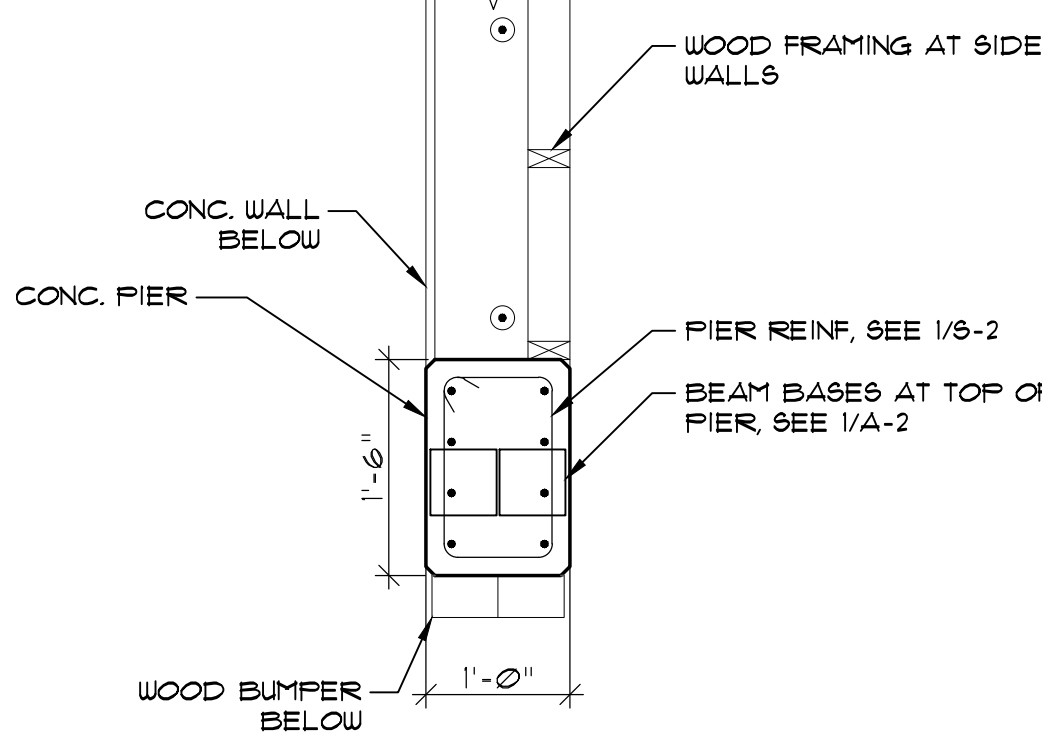
5
5-2
GABLE WALL TRIM DETAIL
SCALE: 3/4"=1'-0"

NOTE:
(2) WOOD MEMBERS ARE SHOWN W/
(2) ANCHORS @ 24" O.C. IF SINGLE
WOOD MEMBER USED, INSTALL (1)
ANCHOR @ 24" O.C. STAGGERED

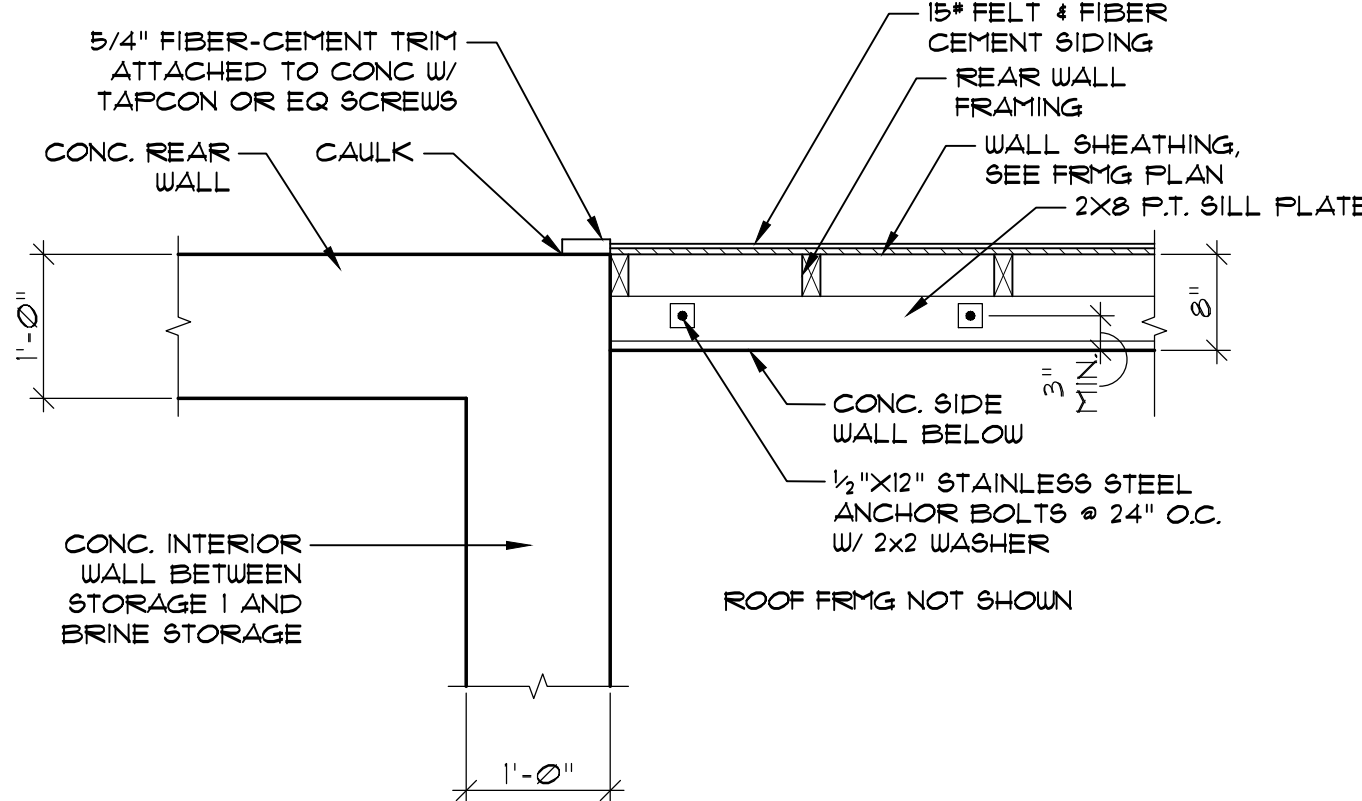
2. ANCHORS SHALL BE STAINLESS
STEEL & MAY BE CAST IN PLACE OR
DRILLED ADHESIVE TYPE (NOT
EXPANSION BOLTS), COORD. W/ WALL
REINF.



3
5-2
WOOD BUMPER ATTACHMENT
SCALE: 3/4"=1'-0"

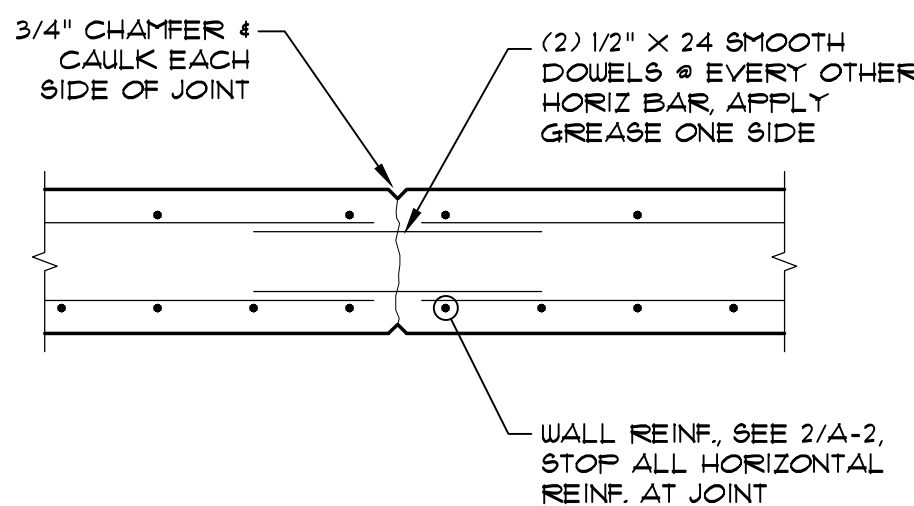


2
5-2
CONCRETE PIER
SCALE: 3/4"=1'-0"

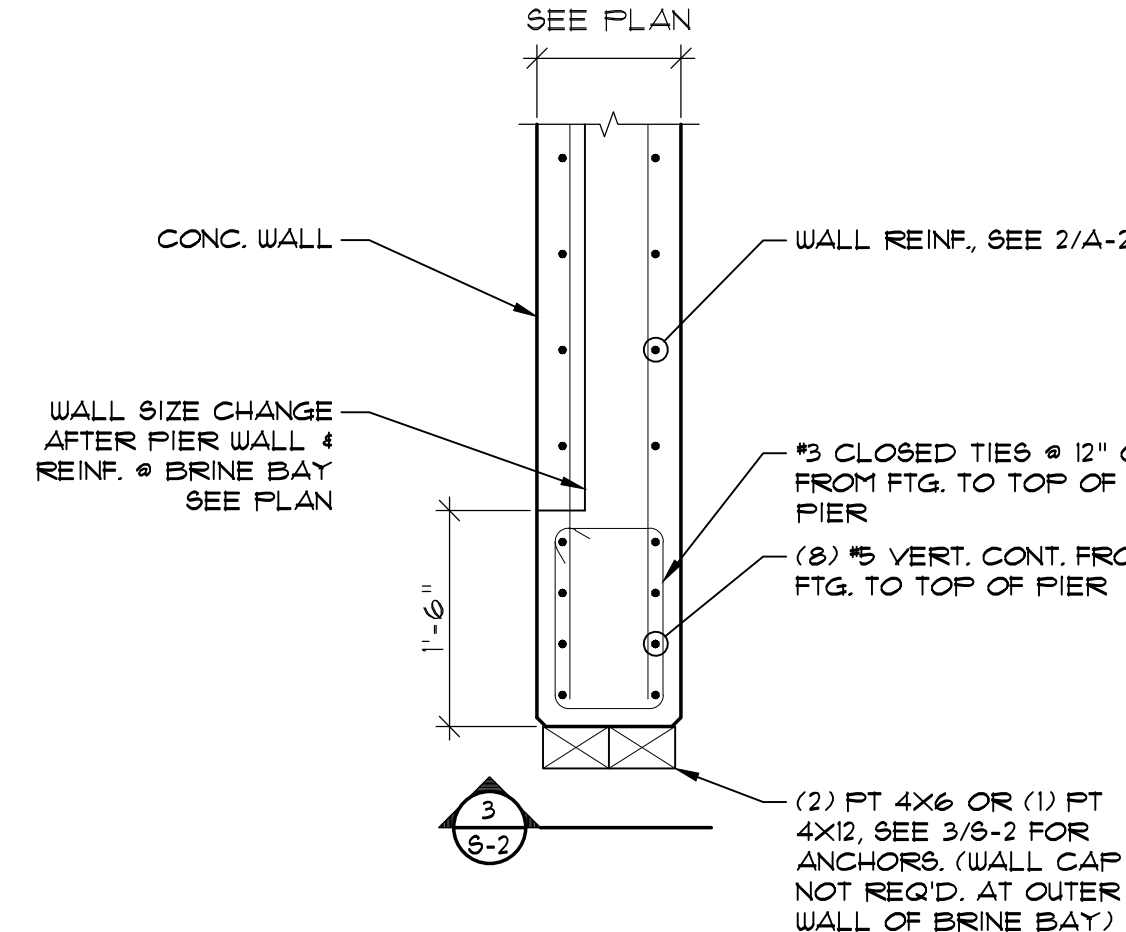


7
5-2
WALL TRANSITION DETAIL
SCALE: 3/4"=1'-0"

- NOTES:
- CONCRETE MAY BE PLACED CONTINUOUSLY OR STOPPED TO PROVIDE COLD JOINT.
 - SAW CUT JOINTS INSTEAD OF CHAMFERS ARE AN ACCEPTABLE OPTION.
 - IF FARGING IS APPLIED TO EXTERIOR WALL, DO NOT APPLY CONTINUOUSLY ACROSS WALL CONTROL JOINTS. STOP FARGE COAT EA SIDE OF JOINT & APPLY SEALANT.



4
5-2
WALL CONTROL JOINT
SCALE: 3/4"=1'-0"



1
5-2
FRONT EDGE OF WALL
SCALE: 3/4"=1'-0"

DIVISION 16 – ELECTRICAL

PART 1 – GENERAL

1.1 DESCRIPTION OF THE WORK

- A. Work under this section includes, but is not necessarily limited to, furnishing and installing the following:
1. Lighting and power distribution system.
 2. Provide lighting fixtures per light fixture schedule with lamps to match.
 3. Wiring devices, boxes, cover plates, etc.
 4. Source of power for all items of equipment.
 5. Grounding.
 6. Other requirements and/or systems where shown.
- B. All work shall be complete and items, equipment, etc., shall be electrically connected for proper and correct operation.
- C. All work under this contract shall be installed in accordance with the latest edition of the following codes and standards insofar as they apply:
1. The 2020 National Electrical Code.
 2. The National Electrical Safety Code.
 3. Underwriter's Laboratories, Inc., Standards and approved listings or other approved 3rd party listing agency.
 4. Electrical Testing Laboratories standards.
 5. 2018 North Carolina State Building Code.
 6. 2018 North Carolina State Energy Code.
- D. The Electrical Contractor shall be licensed in the State of North Carolina and have all local licenses required for the work.
- E. Local permits are not required. All work must be inspected by the Office of State Construction state electrical inspector and the Engineer of Record. Provide certificate of inspection and approval from the state electrical inspector prior to the final inspection. The electrical contractor is responsible for contacting the state electrical inspector for all required inspections. All scheduling shall be Monday through Friday unless otherwise exempted by SCO.
- F. All work shall be done by skilled mechanics and shall present a neat, trim, workmanlike condition when complete.

1.2 INTENT

- A. The intent of these specifications and the accompanying drawings is to convey as reasonably as possible the requirements for a complete job ready for the building to operate. The Electrical Contractor shall take this into consideration and include in his bid allowance for contingencies as will allow him to provide minor pieces of equipment and labor not specifically indicated but required for the job to operate properly, at no additional cost to the Owner.

1.3 COORDINATION

- A. Coordinate work with other contractors. Notify Architect of apparent conflicts early to expedite construction. If structural damage appears imminent, stop work and notify Architect for a decision before resuming operations.
- B. Locations shown are approximate. The drawings do not give exact details as to elevations and locations of various pipes, fittings, ducts, conduit, etc., and do not show all offsets and other installation details which may be required. Coordinate all locations with architect before any rough-in.

1.4 SHOP DRAWINGS

- A. Shop drawings shall be submitted for panels and service equipment, lighting, wiring devices, and cover plates. These may consist of the manufacturer's standard catalog or tear sheets and shall have the exact items being offered clearly identified.

PART 2 – PRODUCTS AND MATERIALS

2.1 GENERAL

- A. All material shall be new and shall bear the manufacturer's name, trade name, and be third party acceptable to NCDOT listed and labeled where such standard has been established for the particular material. Materials shall be the standard products of manufacturer regularly engaged in the manufacture of the required type of equipment and the manufacturer's latest approved design.
1. Boxes installed in concealed locations shall be set flush with the finished surfaces.
 2. Provide rated boxes in all fire barriers & walls installed per code.

2.2 CONDUCTORS

- A. Conductors shall be color coded, sizes #4 and larger may be color taped on the job. Color coding shall comply with 2020 NEC. 120/240V, 1 phase
Phase A– Black
Phase B– Red
Neutral– White
Ground– Green
- B. Conductors shall be manufactured by Dodge, Southwire, Dayton Systems or approved equal. Conductors shall meet the latest requirements of NEMA and IPCEA and shall be third party acceptable to NCDOT approved.
- C. Conductors shall be spliced and taped as follows:
1. Size #10 and #12, use Ideal "Wing Nuts" or T&B "Piggy" connectors. Connectors shall be rated for 150 degrees C for use in recessed lighting fixtures.
 2. Size #8 and larger shall be solderless screw and screw-clamping type, smoothly covered and shaped with rubber gum type with final cover vinyl plastic electrical type. In lieu of rubber gum and vinyl plastic type, factory fabricated approved preformed insulating covers may be used. All connectors shall be UL approved.
 3. No split-bolt type connectors may be used.
- D. All branch wire and connections shall be copper and sized per National Electric Code with a minimum size of #12.
- E. All conductors shall be continuous without splice between junction, outlet, device boxes, etc. No splicing will be permitted in panelboard cabinets, safety switches, etc.
- F. All wiring in mechanical spaces shall be planum rated.
- G. Provide GFI protection within 6'-0" of any sink.
- H. Multi-wire branch circuits are allowed per NEC 210.4. Sharing of neutrals between branch circuits is not allowed.
- I. The insulation type for wiring shall be dual rated THHN/THWN or XHHW. Provide minimum 90 degree C insulation where required by NEC.

2.3 PANELBOARDS, SAFETY SWITCHES

- A. Panelboards shall comply with NEMA Standard PB 1 – Latest Edition and as manufactured by Square D or ITE-Siemens. All panel boards must have copper buses and bolt-in breakers.
- B. Safety switches shall be heavy duty type, size and rating as required for load service. Safety switches shall be fused or unfused as shown and/or as required. Safety switches serving motor loads shall be horsepower rated for load served.

2.4 WIRING DEVICES

- A. Wiring devices shall be federal specification by Bryant, Leviton, Cooper or approved equal. With matching cover. All exterior devices require "extra-duty" rated weatherproof while in use covers. Color by Architect.
- B. Wiring devices installed under a Kitchen Hood shall have stainless steel covers.
- C. Wiring devices installed over counters shall comply with ANSI A117.1.

2.7 CONDUIT

- A. PVC conduit will be allowed under slab. Provide rigid turn-ups.
- B. All exposed conduit shall be rigid steel where exposed to the elements, located less than 8'-0" above grade or where exposed to hazardous conditions.
- C. EMT conduit, above slab, concealed or exposed above 8'-0" shall be used through out the project.
- D. Metallic sheathed "MC" cable should not be used for this project, without designer authorization. MC cable is allowed for light whips 6'-0" or less and where concealed with-in existing construction to minimize demolition work. If used, MC cable shall be 1/2" with minimum #12 AWG copper wire and green insulated copper ground.

PART 3 – EXECUTION

3.1 CIRCUIT GROUNDING

- A. All circuits shall contain an insulated, green, copper grounding conductor, sized in accordance with Table 250-122 of the NEC. Grounding conductors shall be connected to equipment grounding bus in panelboard and securely attached and grounded to the device or enclosure at the other end.

3.2 GROUNDING TYPE CONVENIENCE OUTLETS AND SWITCHES

- A. Outlets and switches shall be solidly grounded to equipment grounding system with a green colored insulated conductor. Electrical connections shall be continuous from equipment ground bus in panelboard to the hex nut on the convenience outlet or switch.

3.3 MOTORS

- A. All motors shall be connected to conduit system with short length (minimum length 24" and maximum length 36") of flexible liquidtight conduit.

3.4 EQUIPMENT LABELING

- A. Provide permanent plastic name plates for all panelboards, safety switches, wiring troughs, etc., for identification of equipment controlled, services, etc. Nameplates shall be securely and permanently attached to equipment with stainless steel screws. Nameplates shall include the name of the equipment and where it is fed from.
- Color Coding–
Blue surface with white core– 120/240v equipment
Black surface with white core– 277/480v equipment
Bright red surface with white core– fire alarm systems
Dark red surface with white core– security systems
Green surface with white core– "emergency" systems
Orange surface with white core– telephone systems
Brown surface with white core– data systems
White surface with black core– paging systems
Purple surface with white core– TV systems
- B. All switch plates, receptacle plates and outlet covers shall be labeled with machine printed vinyl labels identifying the circuit(s) within.
- C. All empty conduit runs shall be identified and indicated where they terminate.
- D. Provide typewritten directory in each panelboard to clearly identify each circuit, service, etc.

3.5 JUNCTION AND/OR PULL BOXES

- A. Boxes shall be installed where necessary to avoid excessive runs and/or more than 360 degrees of bends between outlets.

3.6 PULL WIRE

- A. Leave pull wire in each empty conduit run.

3.7 GROUNDING

- A. All grounding shall be in accordance with Article 250 of the NEC. In addition, the following requirements shall be met:
1. Grounding conductors shall be installed as to permit the shortest and most direct path from equipment to ground. All connections to grounding conductors shall be accessible.
 2. Equipment ground continuity shall be maintained through flexible metal conduit.
 3. All wiring devices equipped with grounding connection shall be solidly grounded to ground system with grounding conductors.
 4. The frame of all lighting fixtures shall be securely grounded to the equipment ground system with grounding conductors.
 5. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 6. All equipment enclosures, and non-current-carrying metallic parts of electrical equipment, raceway systems, etc., shall be effectively and adequately bonded to ground.
 7. The raceway system shall not be relied on for ground continuity. A green grounding conductor, properly sized per NEC table 250-122, shall be run in all power raceways.
 8. Provide ground resistance testing for all service grounds upon completion of grounding & bonding system per 2020 SCO guidelines 26 08 00 B

3.8 ELECTRICAL WORK IN CONNECTION WITH OTHER WORK

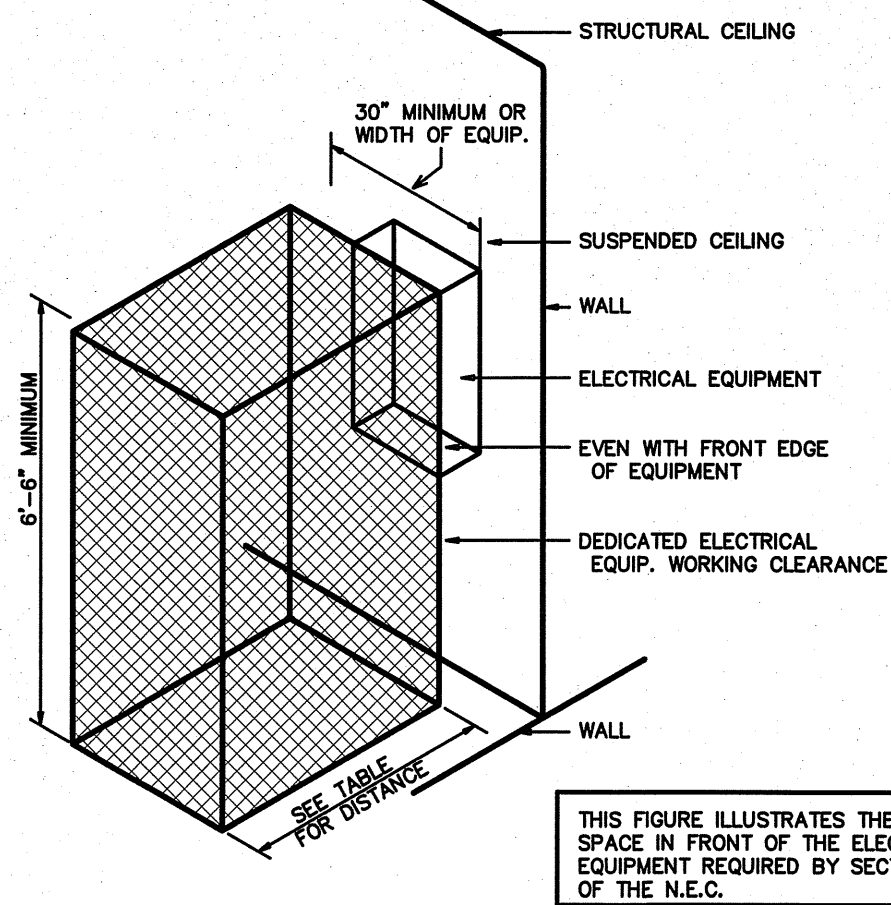
- A. The trade(s) furnishing equipment will provide disconnect switches, motor starters, and make final equipment connections. ELECTRICAL CONTRACTOR will make line side connections to disconnect switches or motor starters.

3.9 CLEAN UP

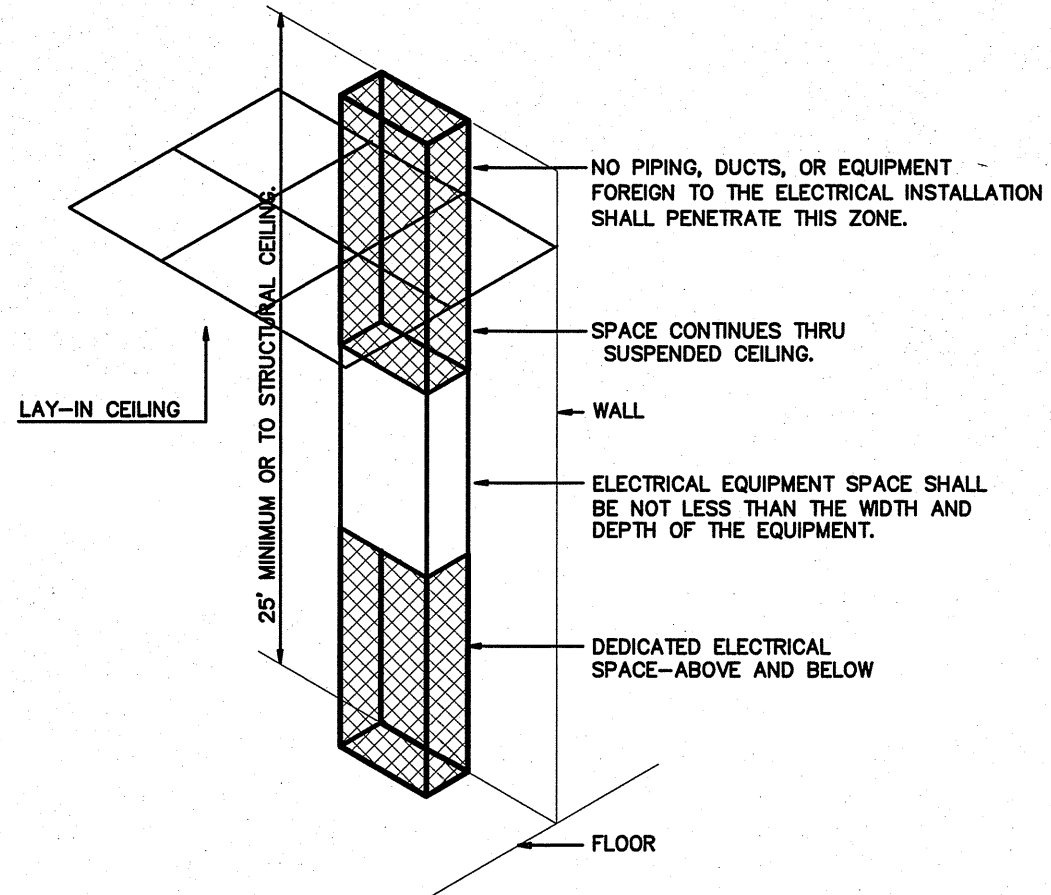
- A. During construction, keep the site clean of debris. Upon completion, and before final inspection, clean up the premises to remove all evidence of work. In addition upon completion of construction leave equipment clean.

3.10 GUARANTEE

- A. Guarantee all materials and labor included in the electrical work for a period of one year from date of final acceptance by the Owner. Any part or parts of the work or equipment which prove to be defective during the guarantee period shall be replaced at no additional cost to the Owner.



2 ELECTRICAL CLEARANCES
NOT TO SCALE



1 DEDICATED SPACE
NOT TO SCALE

2012 NC ENERGY CODE ELECTRICAL SUMMARY	
ELECTRICAL SYSTEM AND EQUIPMENT	
Method of Compliance:	
Energy Code:	☒ Prescriptive ☐ Performance
ASHRAE 90.1:	☐ Prescriptive ☐ Performance
Lighting schedule(each fixture type)	
lamp type required in fixture	See Light Fixture Schedule
number of lamps in fixture	
ballast type used in the fixture	
number of ballasts in fixture	
total wattage per fixture	
total interior wattage specified vs allowed (whole building or space by space)	638 va / 1650 va
total exterior wattage specified vs allowed	90 va / 720 va
AdditionalPrescriptive Compliance	
☐ 506.2.1 More Efficient Mechanical Equipment	
☒ 506.2.2 Reduced Lighting Power Density	
☐ 506.2.3 Energy Recovery Ventilation Systems	
☐ 506.2.4 Higher Efficiency Service Water Heating	
☐ 506.2.5 On-Site Supply of Renewable Energy	
☐ 506.2.6 Automatic Daylighting Control Systems	

ENGINEER

BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652

Coastal
Architecture
PLLC

Architectural
Design
Planning
Interiors

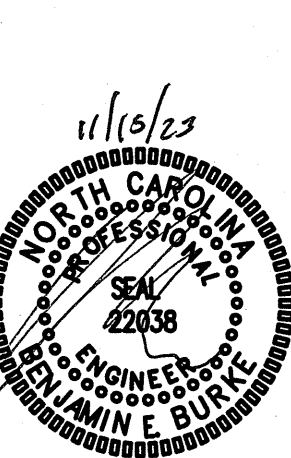


Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
lee@dcoastalarchitect.com
4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SCO ID# 21-23601-01A
MARTIN COUNTY, NORTH CAROLINA

BID SET



ELECTRICAL
SPECIFICATIONS

21030

ISSUED: 11-15-23

DWG BY: BEB

CKD BY: BEB

REVISIONS

SHEET NO.

E-1

Carteret City Salt Shed E2 NEW PANEL- 'A'		MAKE: CUTLER HAMMER TYPE: PRL1d		RATING: 120/240 1 PHASE 3 WIRE MOUNTING: SURFACE		30A MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ☒ YES ☐ NO SERVICE ENTRY RATED ☐ YES ☒ NO	
NEMA 3R		OR APPROVED EQUAL *		MINIMUM AIC: 22,000			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR
LIGHTS- INTERIOR	20A	638	1		2	1476	30A
RECEPTACLES	20A		540		4	1476	3 HP, 12.3 FLA
LIGHTS-EXTERIOR	20A	90	5		6		20A
SPARE	20A		7		8		20A
SPARE	20A		9		10		20A
SPACE			11		12		SPACE
NOTES		SUB-TOTALS 'B'		100A BUS		SUB-TOTALS 'A'	
NEMA 3R				100A LUGS		SUB-TOTALS 'B'	
				30A FEED		GRAND TOTAL	
				3/0 SIZE		AMPS/PHASE	
NEC ALLOWABLE DEMAND FACTORS		DIVERSIFIED LOAD SUMMARY					
① DEMAND FACTORS PER NEC 220		LOAD TYPE		DEMAND FACTOR		TOTAL DIVERSIFIED LOAD	
② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD		GENERAL LIGHTING		125%		910	
③ NEC TABLE 220.56		TRACK LIGHTING		125%		540	
④ NEC 220.51		GENERAL USE RECEPTACLES		100% (1000/1000)		540	
⑤ NEC 220.43A, 200 VA/LINEAR FT		MOTORS AND EQUIPMENT		125%		1845	
⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED		WATER HEATERS		100%		1845	
		KITCHEN EQUIPMENT		100%		3690	
		FIX. ELEC. SPACE HEAT.		100%			
		SHOW WINDOW LIGHTS		125%			
		SIGN		100%			
		MISC		100%			
		PHASE (TOTAL VA)		2755		5140	
		TOTAL AMPS		23A		20A	
				VOLT AMPS = 21A		TOTAL AMPS	

* OR APPROVED EQUAL BY SQUARE D OR GE.

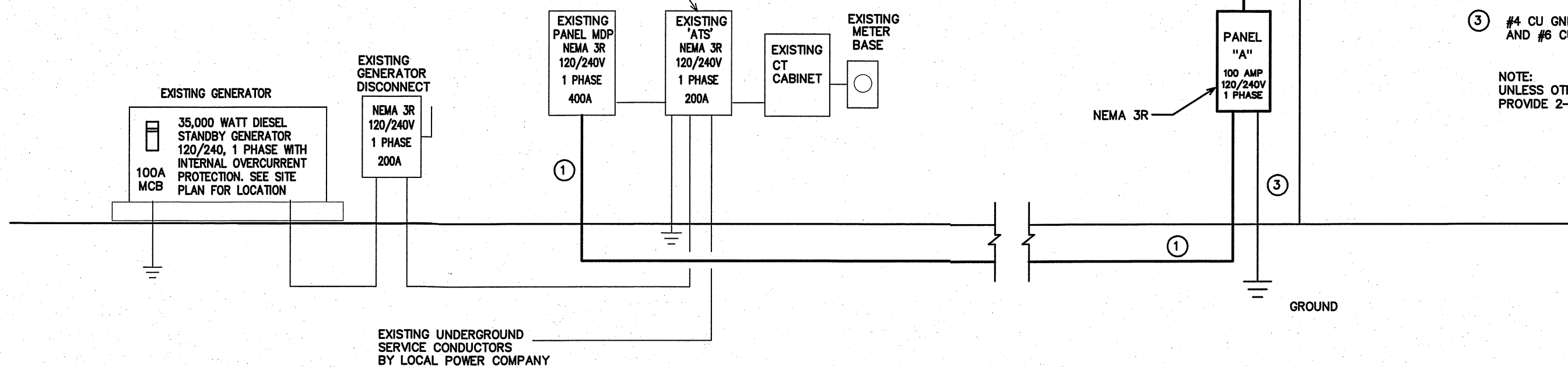
Carteret City Salt Shed E2 EXISTING PANEL- 'MDP'		MAKE: CUTLER HAMMER TYPE: PRL4		RATING: 120/240 1 PHASE 3 WIRE MOUNTING: SURFACE		400A MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ☒ YES ☐ NO SERVICE ENTRY RATED ☒ YES ☐ NO	
NEMA 3R		OR APPROVED EQUAL *		MINIMUM AIC: 65,000			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR
TAR TANK PANEL	100A		1		2		100A
SPACE			3		4		100A
SPACE	90		5		6		SPACE
SPACE			7		8		SPACE
OFFICE PNL	300A		9		10		400A
			11		12		MAIN BREAKER
NOTES		SUB-TOTALS 'B'		400A BUS		SUB-TOTALS 'A'	
NEMA 3R				400A LUGS		SUB-TOTALS 'B'	
				400A FEED		GRAND TOTAL	
				VERIFY SIZE		AMPS/PHASE	

Carteret City Salt Shed E2 REVISED PANEL- 'MDP'		MAKE: CUTLER HAMMER TYPE: PRL4		RATING: 120/240 1 PHASE 3 WIRE MOUNTING: SURFACE		400A MAIN CIRCUIT BREAKER EQUIPMENT GROUND BUS ☒ YES ☐ NO SERVICE ENTRY RATED ☒ YES ☐ NO	
NEMA 3R		OR APPROVED EQUAL *		MINIMUM AIC: 65,000			
LOAD SERVICE	CKT BRKR	WATTS PER PHASE A B	CKT NO	NEUTRAL A B	CKT NO	WATTS PER PHASE A B	CKT BRKR
SPARE	100A		1		2		100A
SPACE			3		4		100A
SPACE	90		5		6	2204	30A
SPACE			7		8	2016	30A
OFFICE PNL	300A		9		10		400A
			11		12		MAIN BREAKER
NOTES		SUB-TOTALS 'B'		400A BUS		SUB-TOTALS 'A'	
NEMA 3R				400A LUGS		SUB-TOTALS 'B'	
				400A FEED		GRAND TOTAL	
				VERIFY SIZE		AMPS/PHASE	

SALT STORAGE BLD VOLTAGE DROP CALCS				
AMPERAGE: 30A VOLTAGE: 120/240 VOLT, 1 PHASE				
DESCRIPTION	INITIAL VOLTAGE	VOLTAGE DROP (%)	RUN LENGTH	WIRE SIZE
NEW PANEL A TO EXISTING MDP AT GENERATOR	120V	3.33%	760 FEET	#3/0 COPPER

VERIFY AVAILABLE FAULT CURRENT AT SERVICE LOCATION WITH LOCAL POWER COMPANY. PROVIDE INFORMATION TO ENGINEER TO CALCULATE MINIMUM PANEL AIC RATING.
EC SHALL PROVIDE LABELING INDICATING FAULT CURRENT AT SERVICE ENTRY AND ON ALL PANELS PRIOR TO ENERGIZING.

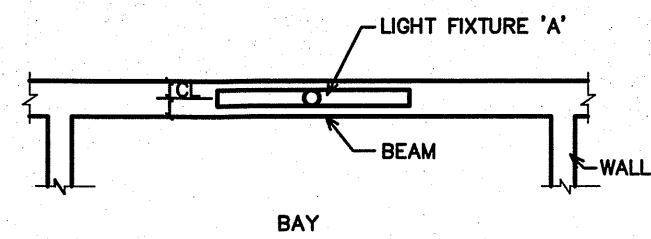
UL RATED FOR SERVICE ENTRY.



2 ELECTRICAL SERVICE RISER
NOT TO SCALE

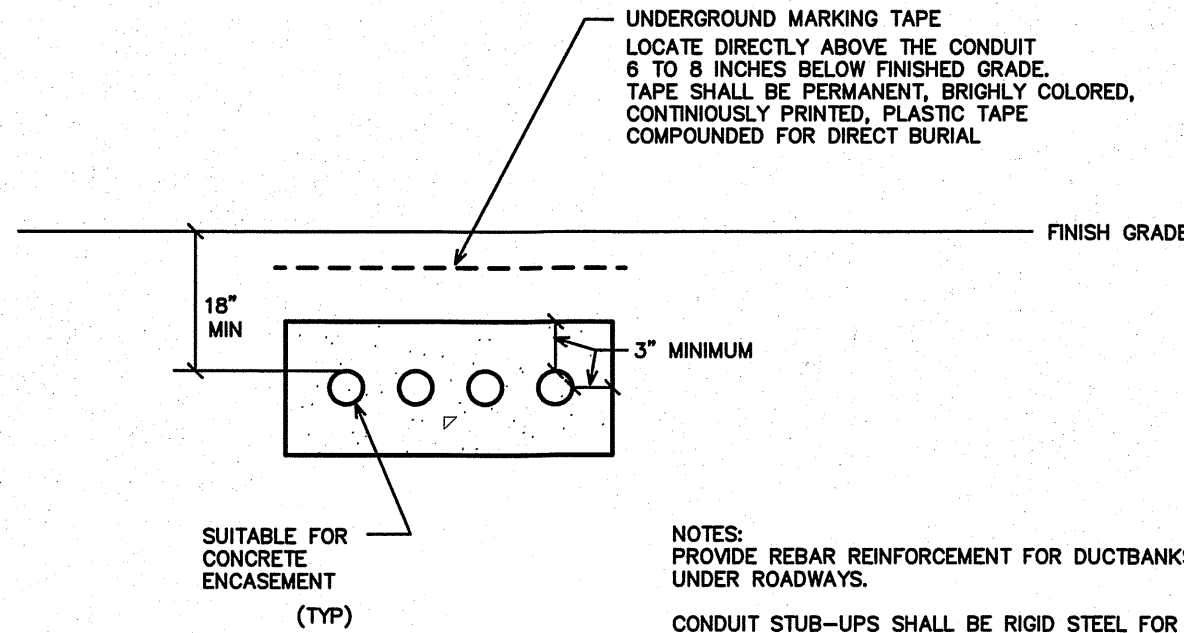
Carteret City Salt Shed E2 LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	LAMPS NO. TYPE W	BALLAST TYPE	W/ FIXTURE	REMARKS		
A	METALUX	4VT2-LD5-B-DR-UNV-L840-WL-SSL-VT2-SS-MBK	120	LED 58	-	58	SURFACE MOUNT ENCLOSED LED STRIP, WEATHER TIGHT, FIBERGLASS HOUSING, GASKETED COVER		**
B	CROUSE-HINDS	CPMV-5L-UNV1-S903	120	LED 45	-	45	WALL MOUNT LED WALL PACK, WEATHER TIGHT, FIBERGLASS HOUSING, GASKETED COVER		**
X	COOPER LIGHTING	VS2WP	120	LED	-	-	VANDAL/WEATHER PROOF EMERGENCY LIGHT WITH POLYCARBONATE SHIELD		

* OR APPROVED EQUAL BY LITHONIA OR DAYBRITE. PROVIDE CUT SHEETS FOR OWNER APPROVAL PRIOR TO ORDERING FIXTURES. FOR FLUORESCENT FIXTURES CONTROLLED BY MOTION SENSOR, PROVIDE "PROGRAMMED RAPID START" BALLASTS. CATALOG NUMBERS ARE FOR REFERENCE ONLY, ACTUAL NUMBERS MAY VARY. "EB" DENOTES ELECTRONIC BALLAST.
** VERIFY MOUNTING WITH STRUCTURE PRIOR TO RELEASING FIXTURES



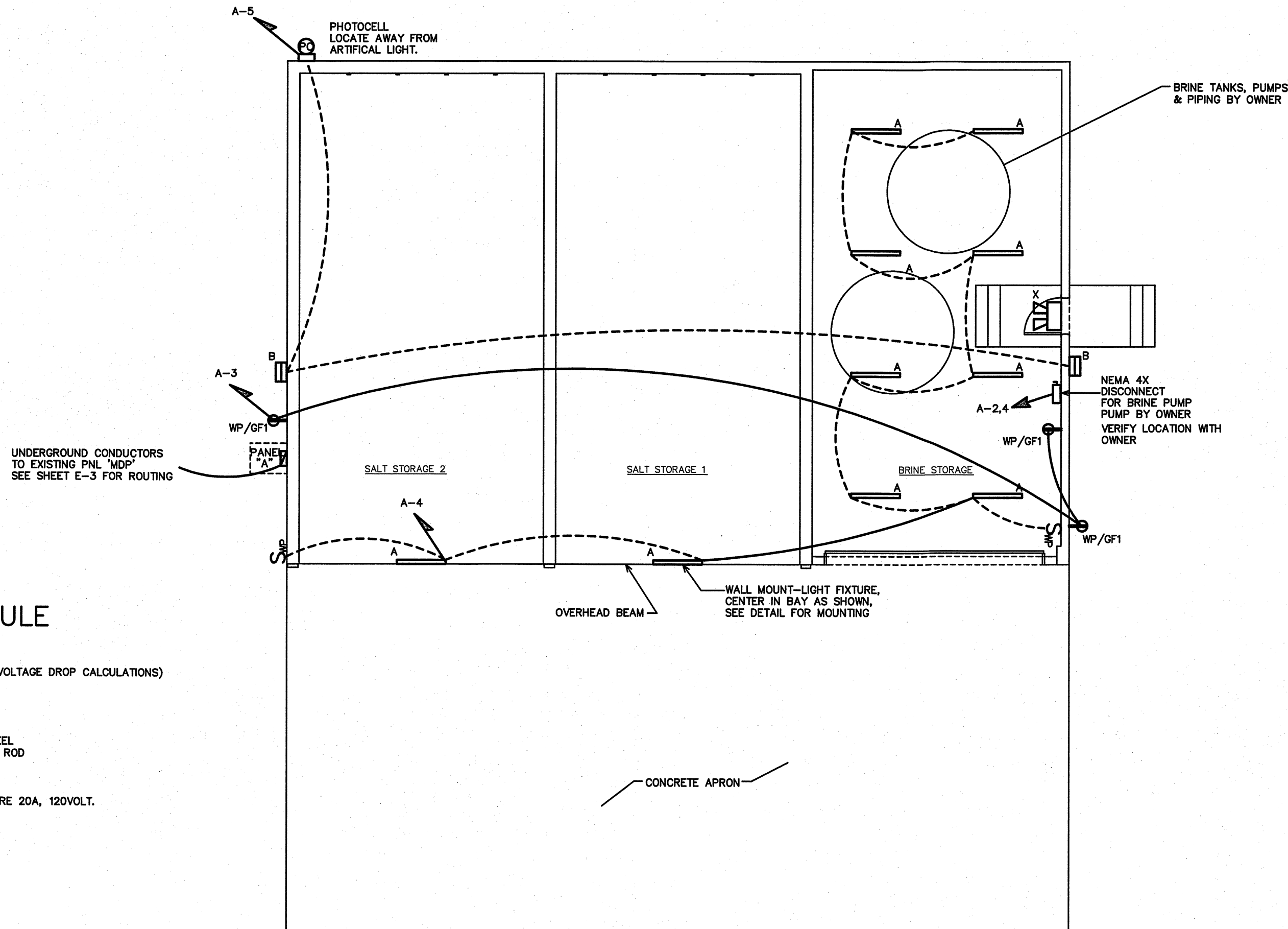
NOTES:
1. SURFACE MOUNT LIGHT FIXTURE TO BEAM WITH LENS FACING INTO BAY.
2. CENTER LIGHT FIXTURE ON BEAM IN MIDDLE OF BAY.
3. TYPICAL OF THREE (3) FIXTURES.

3 FIXTURE MOUNTING DETAIL
NOT TO SCALE



NOTES:
PROVIDE REBAR REINFORCEMENT FOR DUCTBANKS UNDER ROADWAYS.
CONDUIT STUB-UPS SHALL BE RIGID STEEL FOR THE LAST 2 FEET MINIMUM.
BRANCH CIRCUITS DO NOT REQUIRE DUCT BANKS BUT MUST BE RUN IN A MINIMUM OF 3/4" CONDUIT APPROVED BY THE NEC FOR DIRECT BURIAL.

4 CONDUIT DUCT BANK DETAIL
NOT TO SCALE



NOTES:
1) UTILIZE PVC CONDUIT THROUGH-OUT THE BUILDING. PROVIDE SCHEDULE 80 PVC FOR SERVICE ENTRY.
2) FASTEN CONDUIT TO STRUCTURE WITH STAINLESS STEEL HARDWARE.
3) COORDINATE ALL LOCATIONS WITH OWNER PRIOR TO ROUGH-IN.

1 SALT SHED ELECTRICAL PLAN
SCALE: 1/8" = 1'-0"

ENGINEER

BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0828
email: ben@bdg-nc.com
Corp. License # C-2652

Coastal
Architecture
P.L.L.C.

Architectural
Design
Planning
Interiors

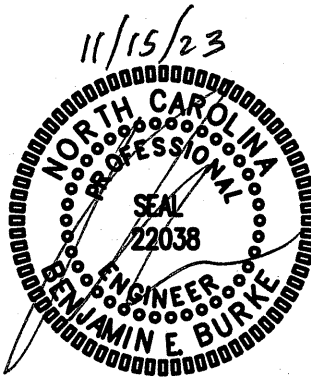


Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
285.247.2127
lee@coastalarchitect.com
4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SCO ID# 21-23601-01A
CARTERET COUNTY, NORTH CAROLINA

BID SET



ELECTRICAL
PLAN/RISER

21030

ISSUED: 11-15-23

DWG BY: BEB

CKD BY: BEB

REVISIONS

SHEET NO.

E-2

5/31/22, 8:47 AM

Google Maps



1 SALT SHED ELECTRICAL SITE PLAN
NOT TO SCALE

<https://www.google.com/maps/@34.805092,-76.866433,431m/data=!3m1!1e3>

2/3

Coastal
Architecture
P.L.L.C.
Architectural
Design
Planning
Interiors

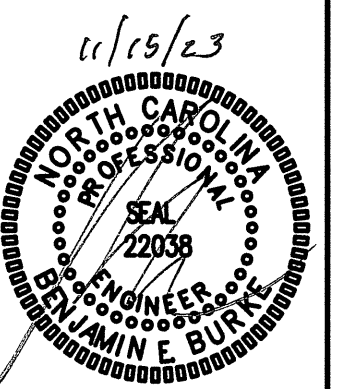


Member of the American
Institute of Architects

Lee D. Dixon, Jr., AIA
252-347-2127
lee@coastalarchitecture.net
4206 Bridges St. Ext.,
Suite C
Morehead City, NC
28557
www.CoastalArchitecture.net

CARTERET COUNTY SALT SHED
SCO ID# 21-23601-01A
CARTERET COUNTY, NORTH CAROLINA

BID SET



ELECTRICAL
SITE PLAN

21030

ISSUED: 11-15-23
DWG BY: BEB
CKD BY: BEB
REVISIONS

ENGINEER
BURKE DESIGN GROUP
3305-109 DURHAM DRIVE
RALEIGH, NC 27603
PHONE: (919) 771-1916
FAX: (919) 779-0826
email: ben@bdg-nc.com
Corp. License # C-2652

SHEET NO.
E-3