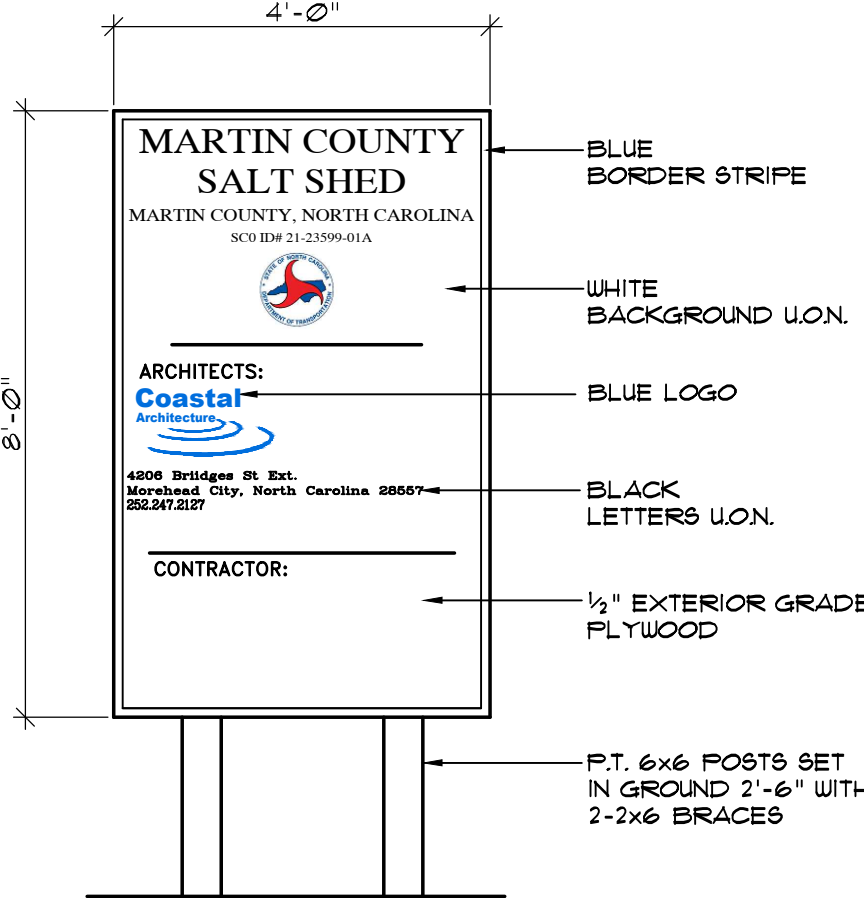


MARTIN COUNTY SALT SHED

1740 PRISON CAMP RD.

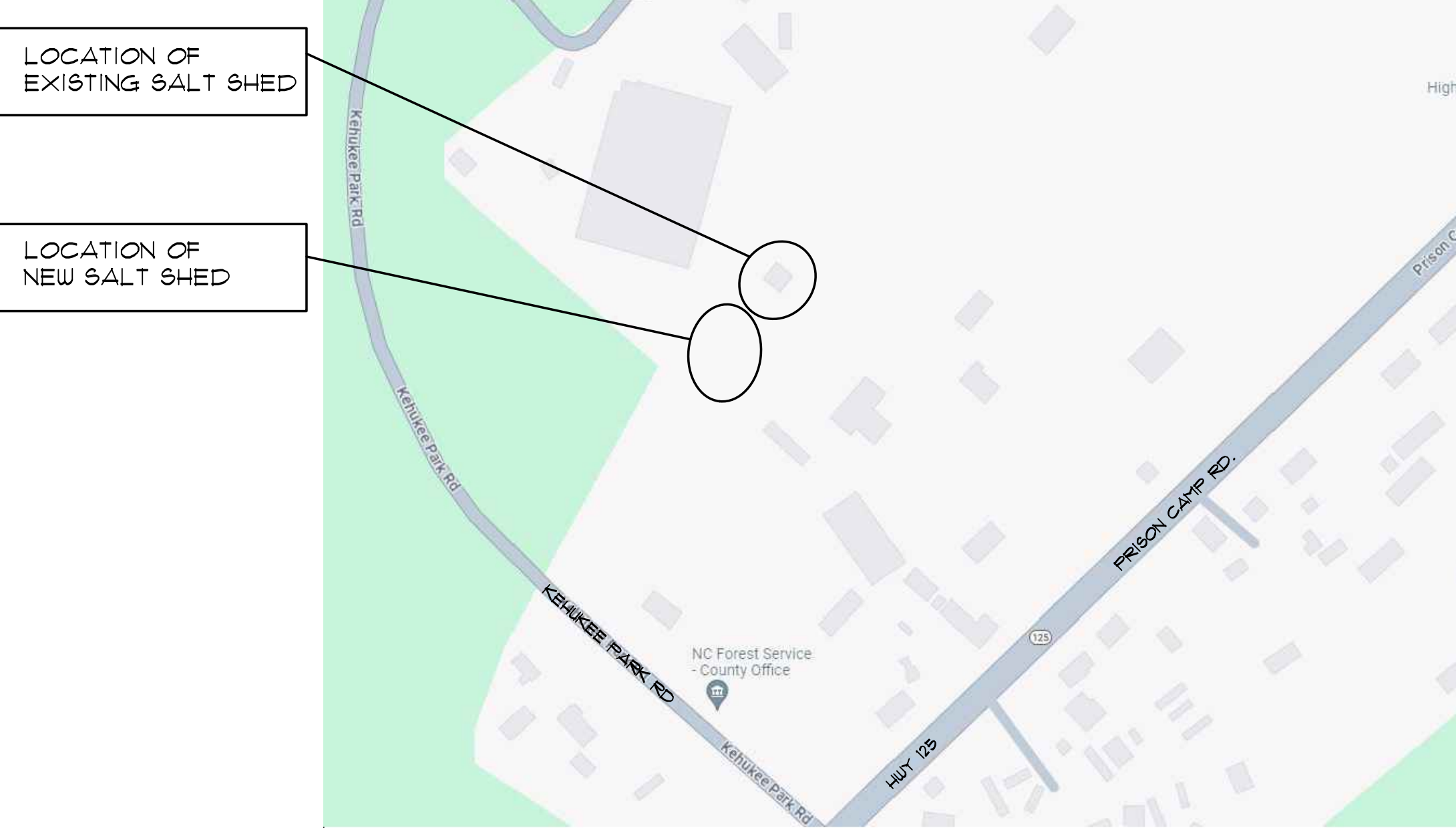
WILLIAMSTON, NORTH CAROLINA

SC0 ID# 21-23599-01A



1 PROJECT SIGN
CS-1 NOT TO SCALE

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



2 VICINITY MAP
CS-1 SCALE: NOT TO SCALE

INDEX TO DRAWINGS

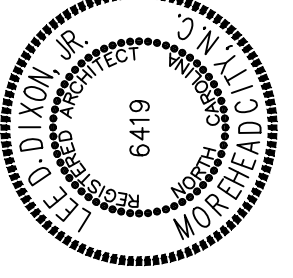
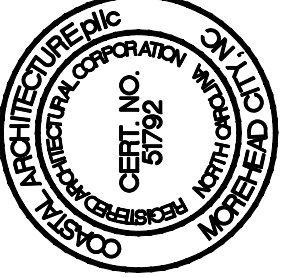
- CS-1 COVER SHEET
- G-1 GENERAL DATA
- G-2 LIFE SAFETY PLAN
- SD-1 NEW SITE PLAN
- A-1 FLOOR PLAN AND ELEVATIONS
- A-2 WALL SECTIONS
- A-3 WALL SECTIONS
- S-1 FOUNDATION AND ROOF FRAMING PLANS
- S-2 STRUCTURAL DETAILS
- E-1 ELECTRICAL SPECIFICATIONS
- E-2 ELECTRICAL PLANS
- E-3 ELECTRICAL SITE PLAN



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.

RELEASE FOR BIDDING



COVER SHEET

21029

ISSUED: 6/22/22

DWG BY: MLR

CKD BY: LDD

REVISIONS

SHEET NO.

CS-1

OF

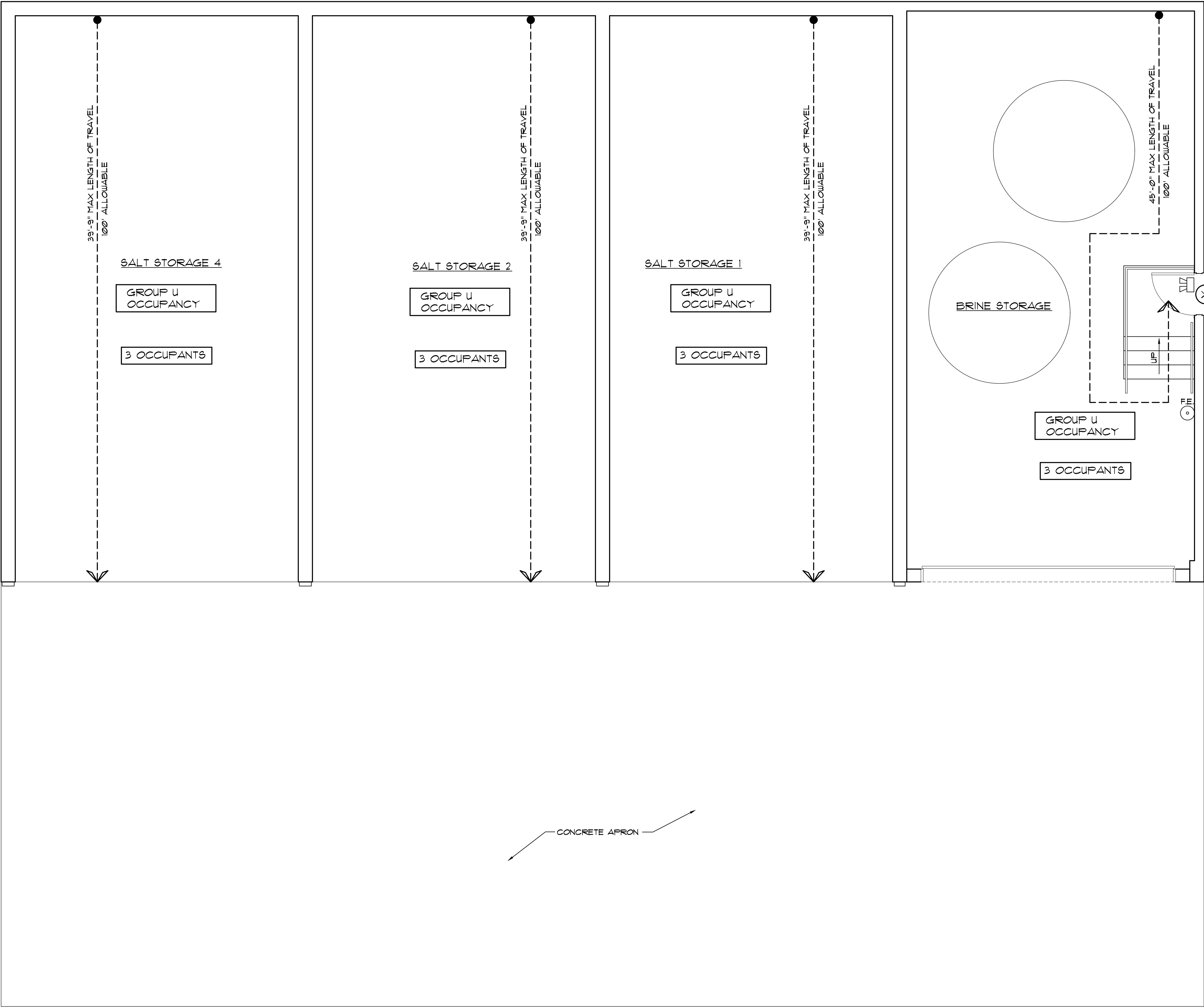
PROPERTY LINE > 30'
NO LIMIT OF OPENING

PROPERTY LINE > 30'
NO LIMIT OF OPENING

PROPERTY LINE > 30'
NO LIMIT OF OPENING

PROPERTY LINE > 30'
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

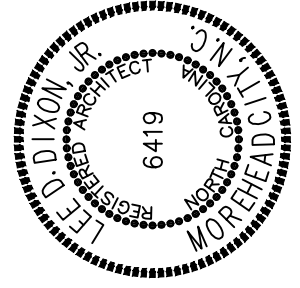
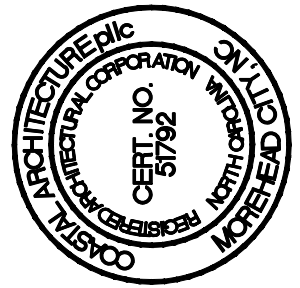
Coastal
Architecture
• Architectural Design
• Planning
• Interiors

AIA
Member of the American Institute of Architects

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

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Morehead City, NC 28557
www.CoastalArchitecture.net

MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA



LIFE SAFETY PLAN

21029

ISSUED: 6/22/22
DWG BY: MLR
CKD BY: LDD

REVISIONS	

SHEET NO.
G-2
OF

LOCATION OF
EXISTING SALT
SHED

LOCATION OF
NEW SALT SHED



NEW SITE PLAN
SCALE: N.T.S.

- 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.

Coastal
Architecture

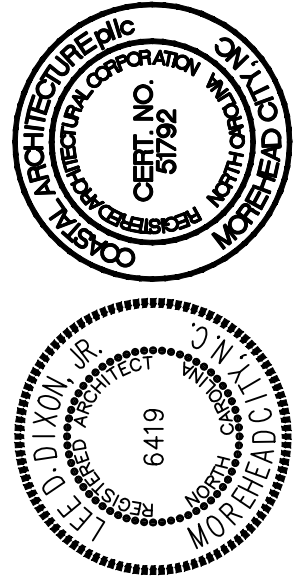
- Architectural Design
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MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA



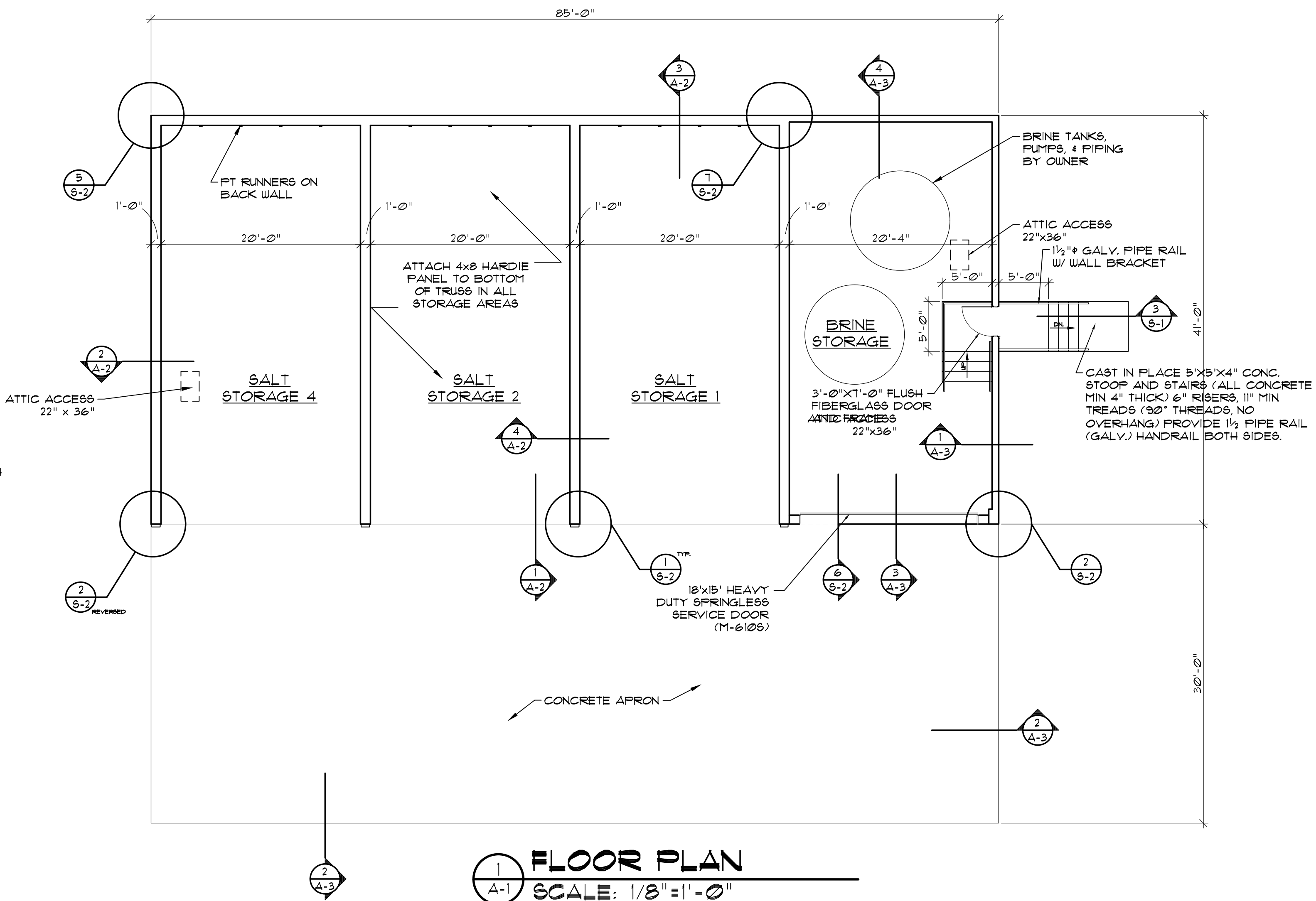
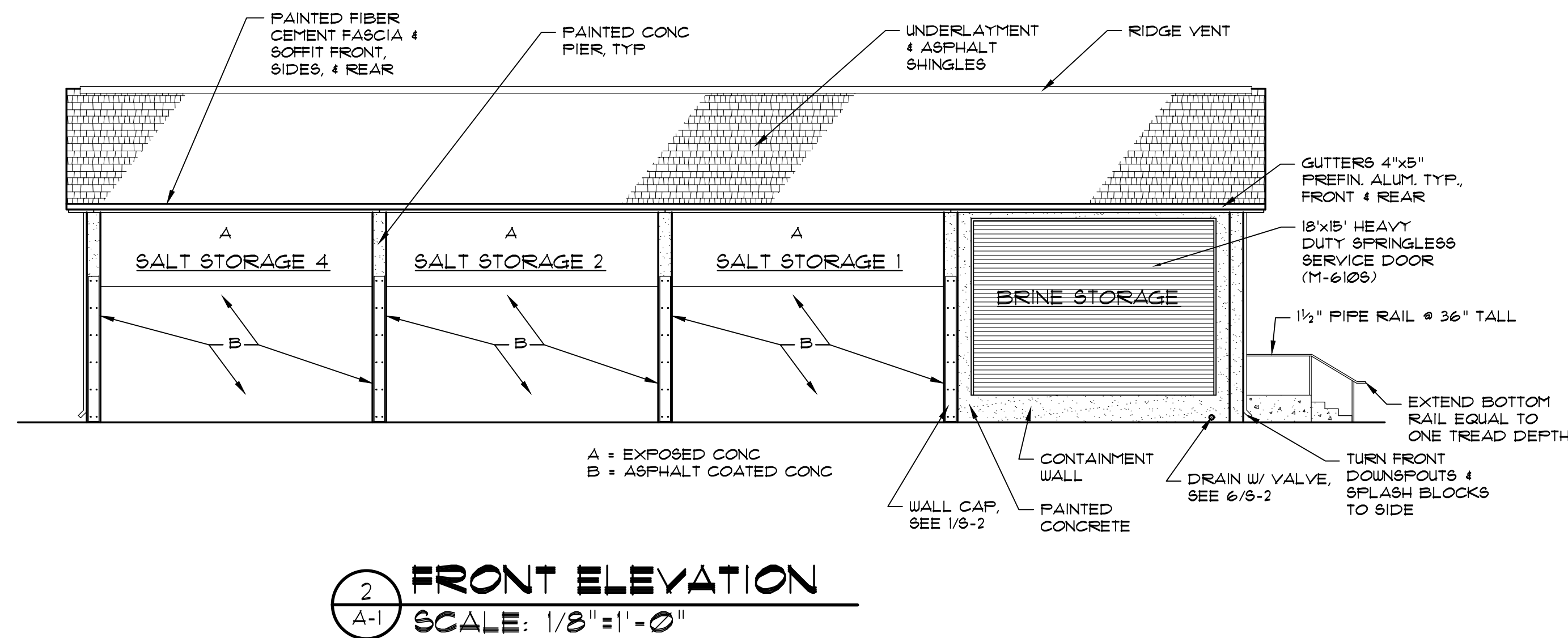
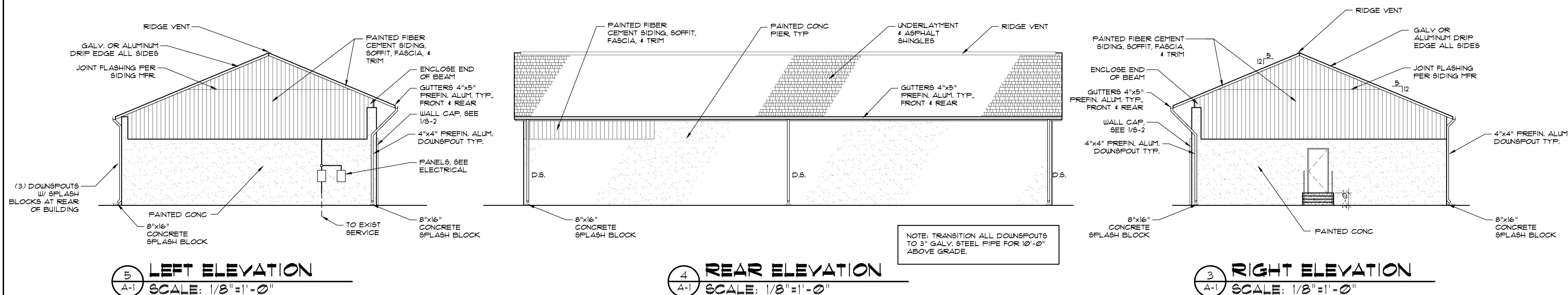
NEW SITE PLAN

21029

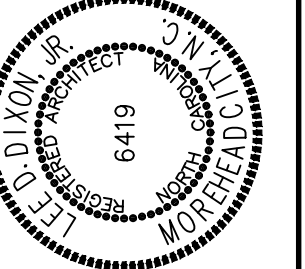
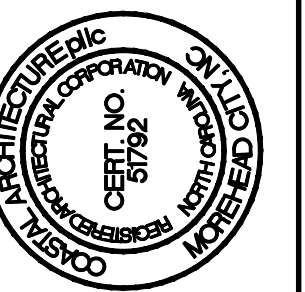
ISSUED: 6/22/22
DWG BY: MLR
CKD BY: LDD

REVISIONS

SHEET NO.
SD-1
OF



MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA



ALL SECTIONS

21029

SUED: 6/22/22

WG BY: MLR

REVISIONS

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SHEET NO.

Λ Ω

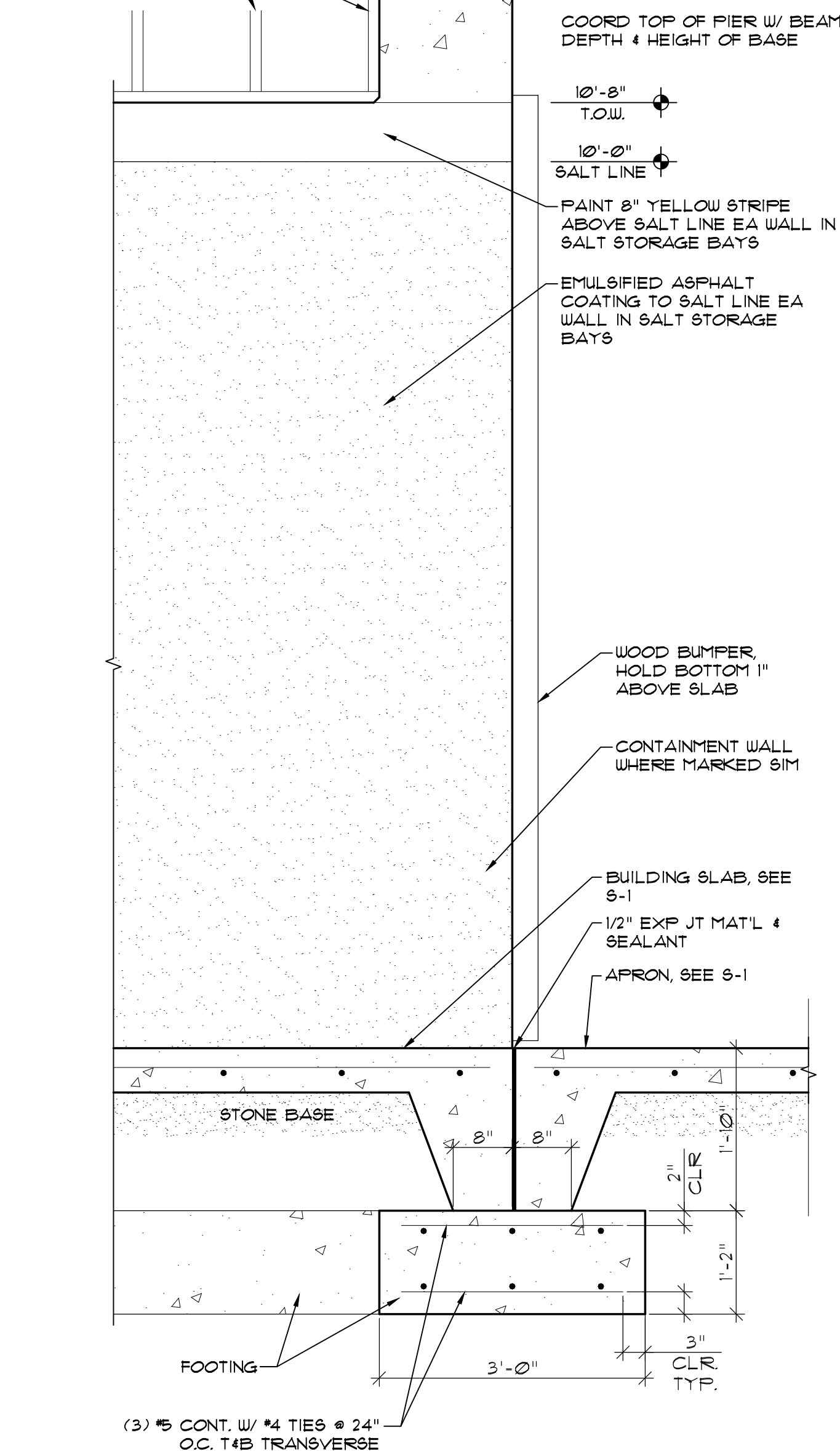
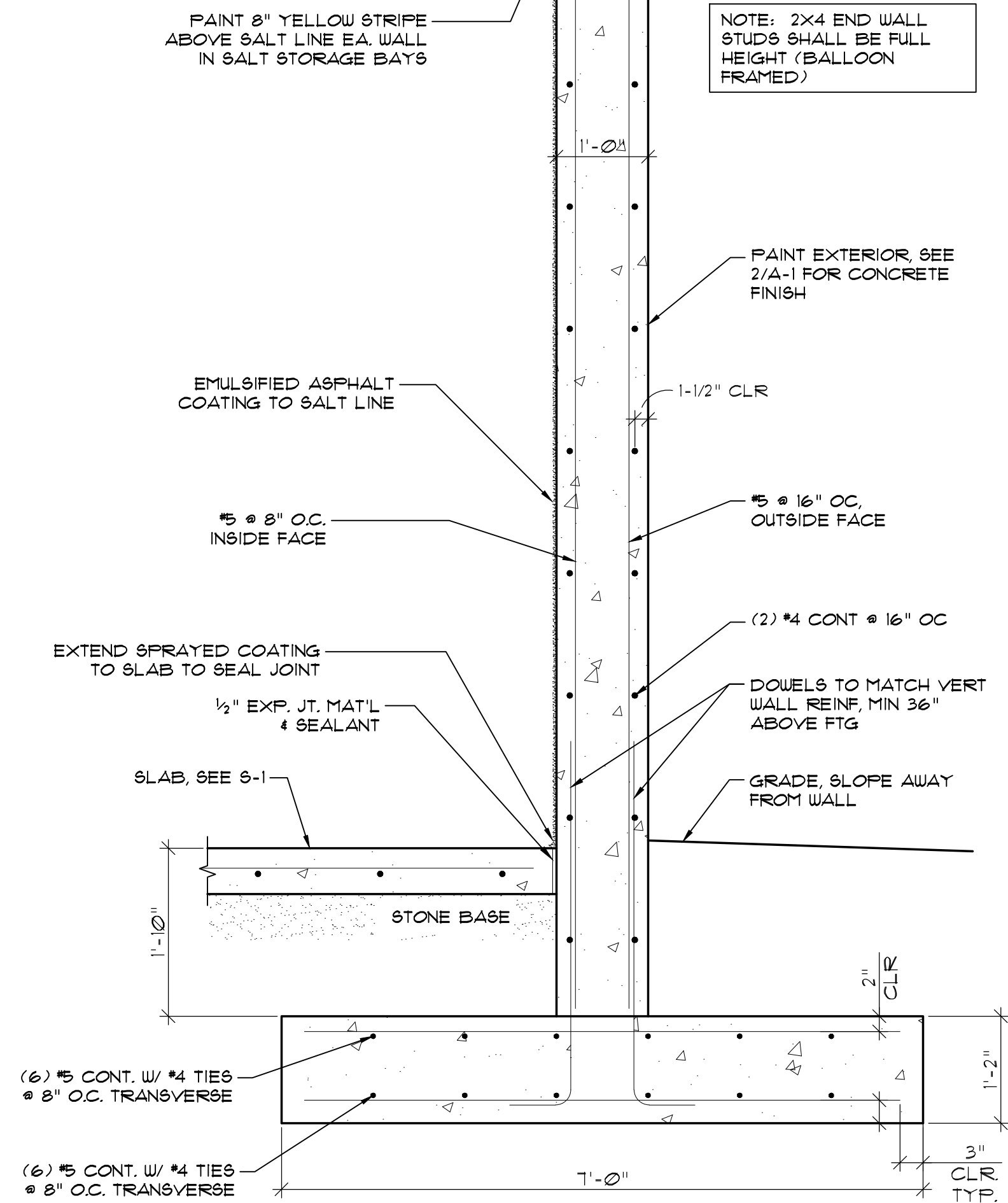
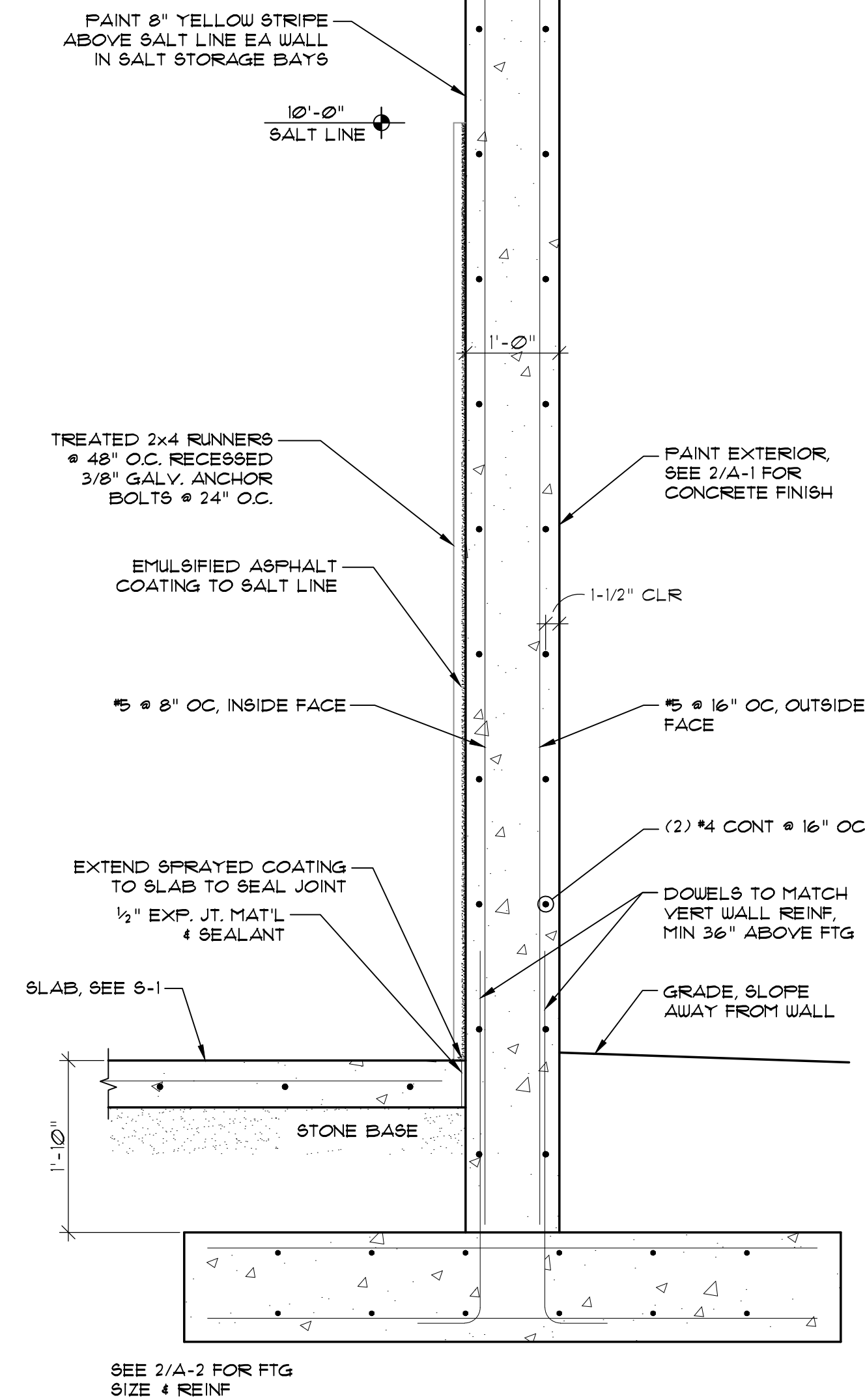
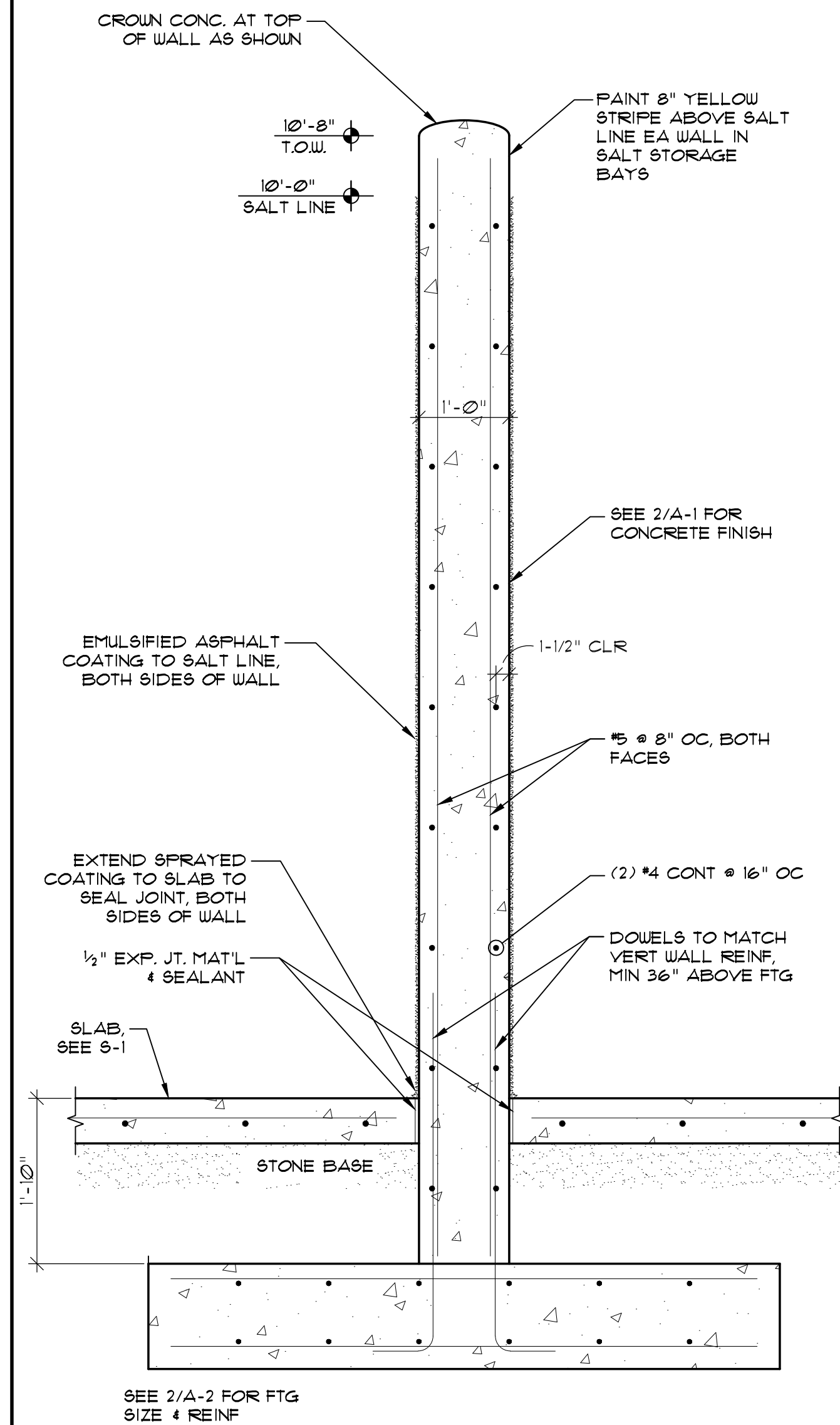
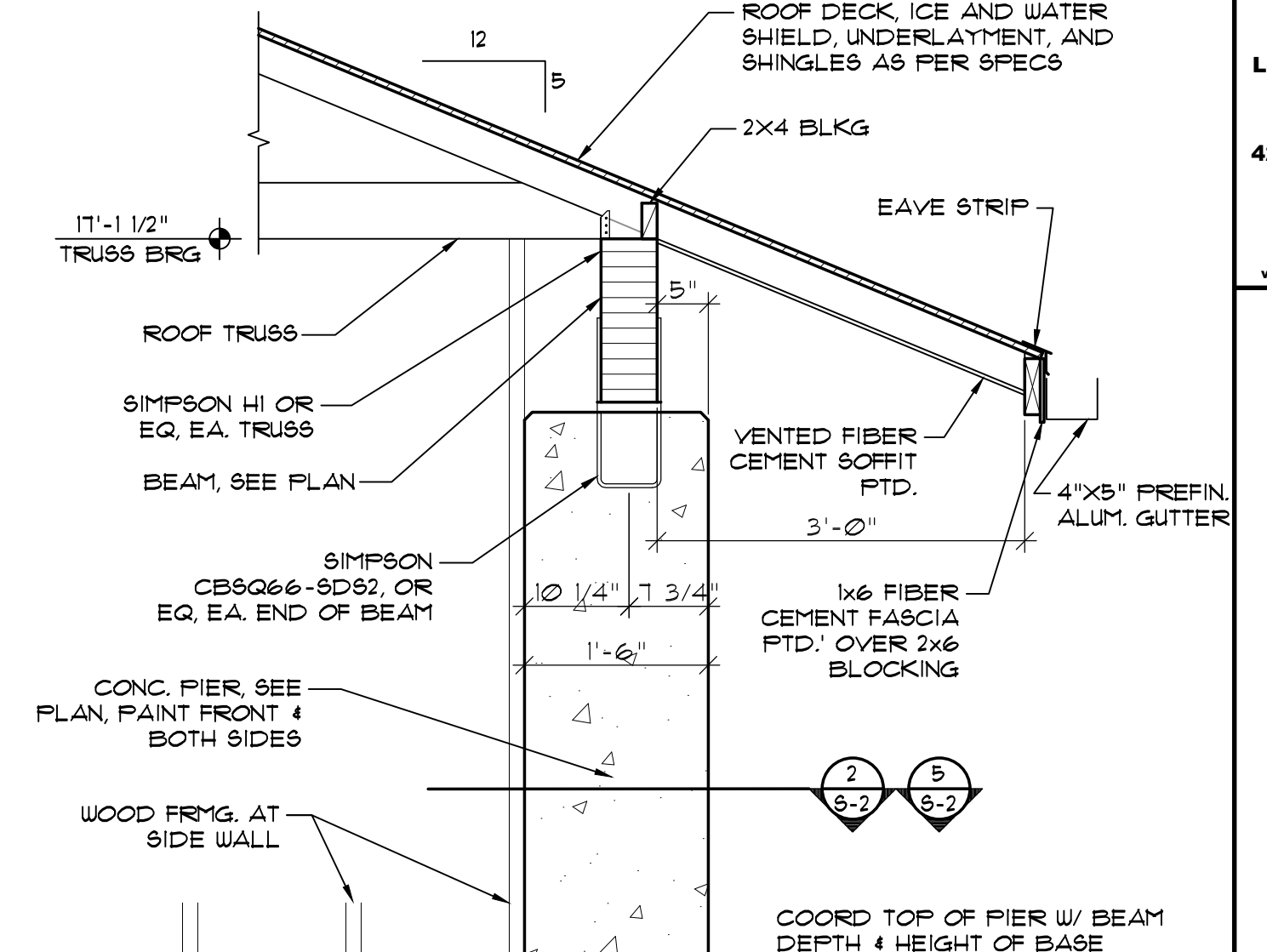
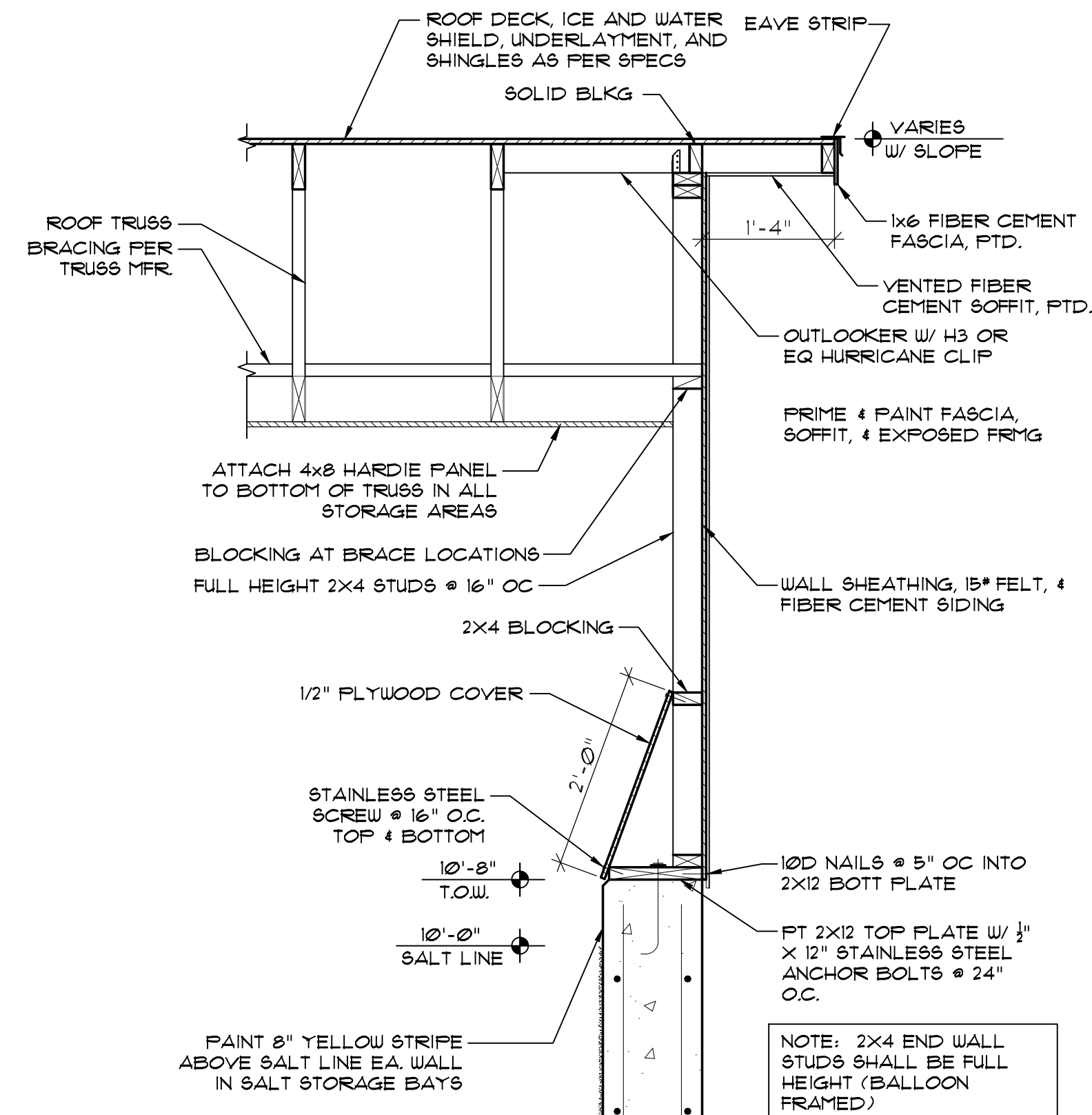
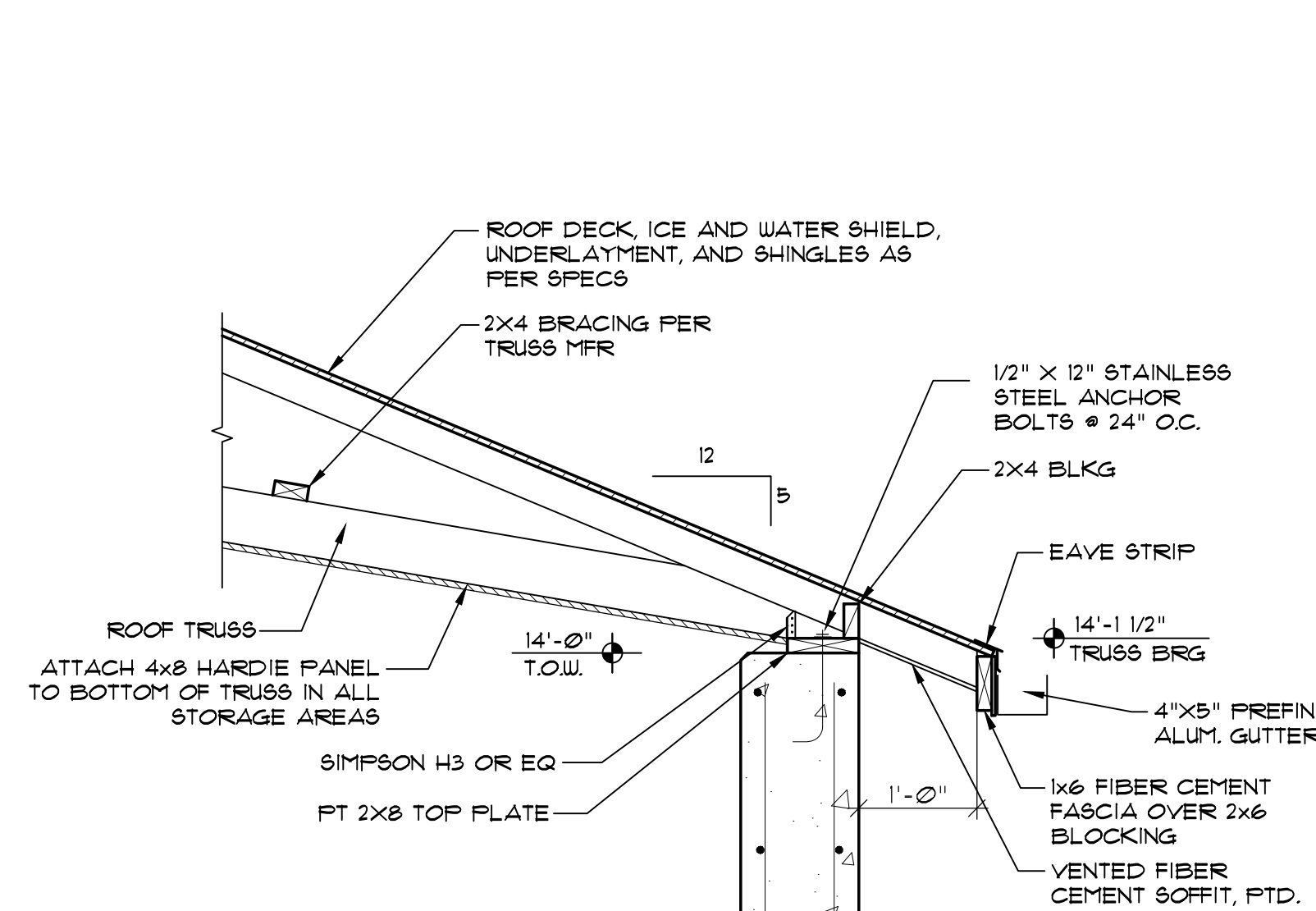
A-2

OF

— 1 —

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.

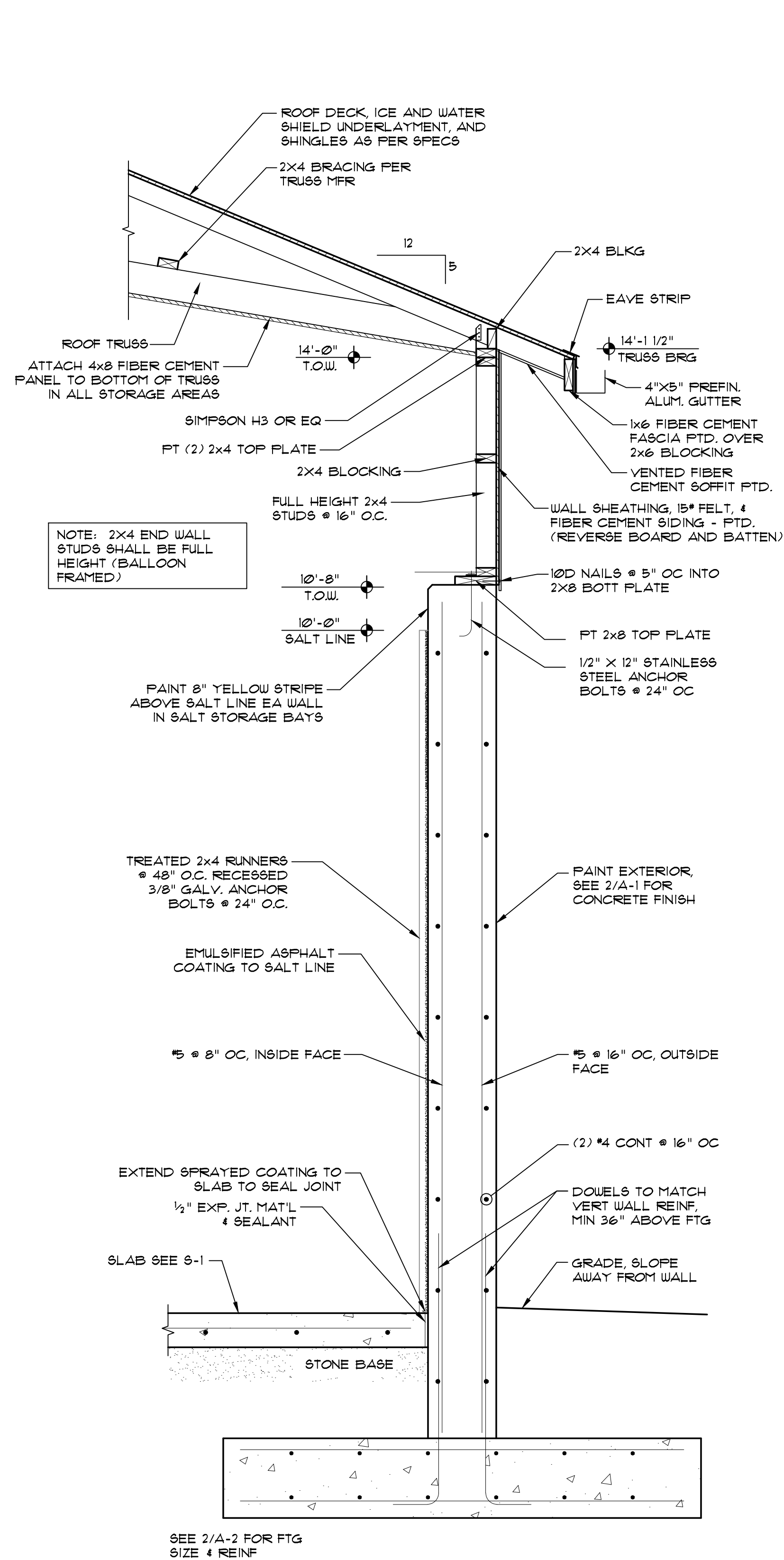


SECTION AT INTERIOR WALL
SCALE: 3/4" = 1'-0"

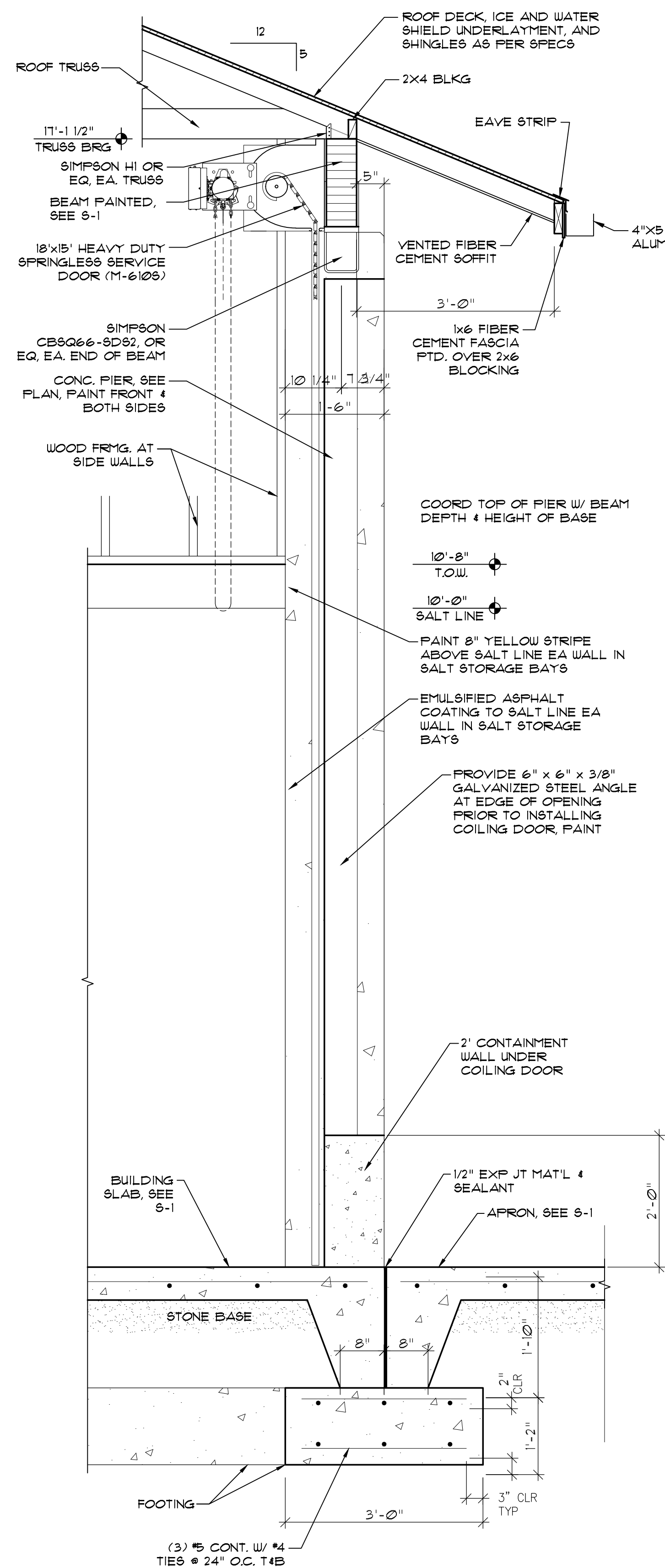
SECTION AT REAR WALL
SCALE: 3/4" = 1'-0"

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

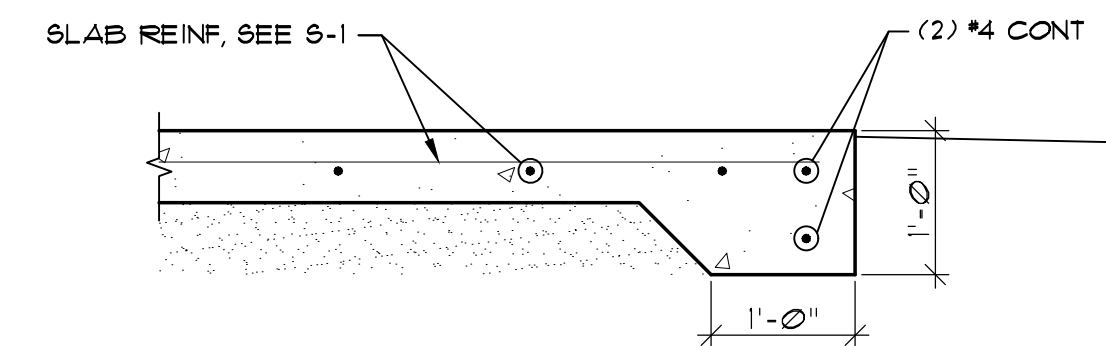
SECTION AT FRONT WALL
SCALE: 3/4" = 1'-0"



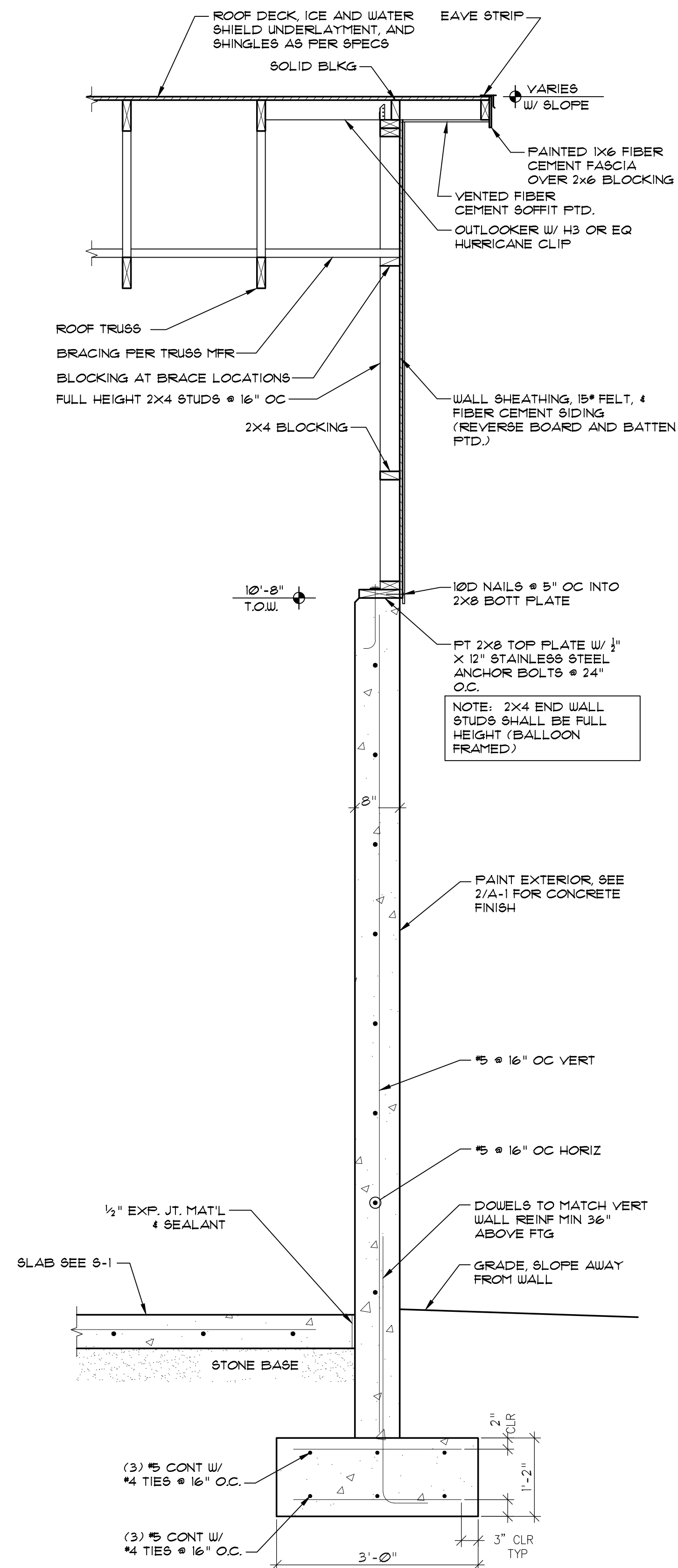
4 SECTION AT REAR WALL
SCALE: 3/4"=1'-0"



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



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



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

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.

HEEL HEIGHT NOT CRITICAL, PER TRUSS MFR STD DETAIL

12 5

12 5

BRACING, SEE NOTES

12 5

18'-0"

40'-7"

22'-7"

3'-0"

OUT - OUT OF BRG

TRUSS PROFILE

INTERIOR FLOOR & APRON SHALL BE
6" CONC SLAB REINF W/ EPOXY
COATED #4 @ 16" OC, EW OVER 6" #5
STONE BASE.

THESE DRAWING AND SPECIFICATIONS REPRESENT AN INSTRUMENT OF SERVICE AND AS SUCH SHALL REMAIN IN OWNERSHIP WITH THE ARCHITECT. USE OR REPRODUCTION BY ANY MEANS, IN WHOLE OR IN PART, WITHOUT THE ARCHITECT'S WRITTEN CONSENT, IS PROHIBITED.

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"

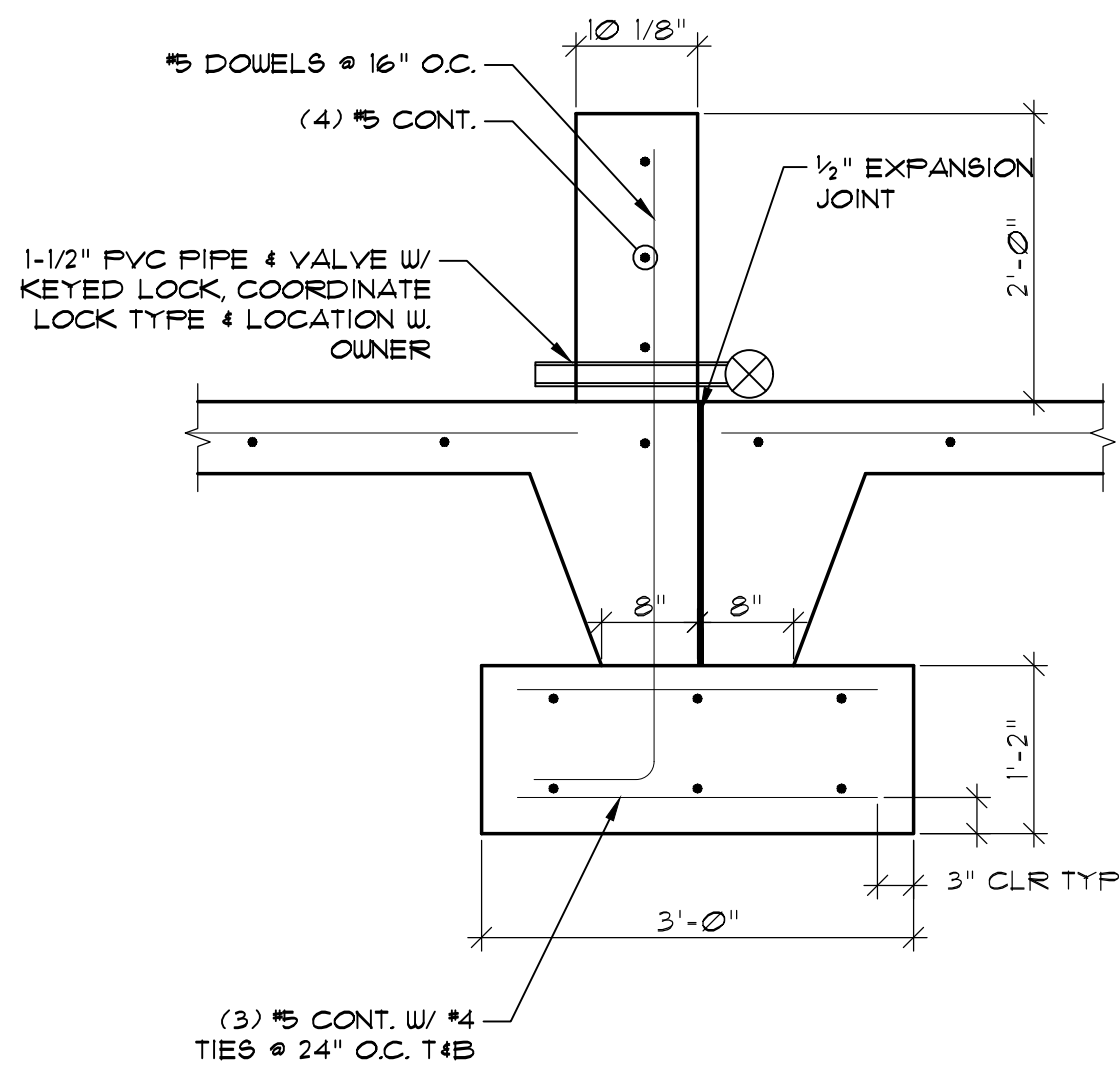
Grade beams, pedestals, columns, walls: 2"

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.
- SOIL COMPACTION UNDER SLABS TO BE 98%.

F. WOOD

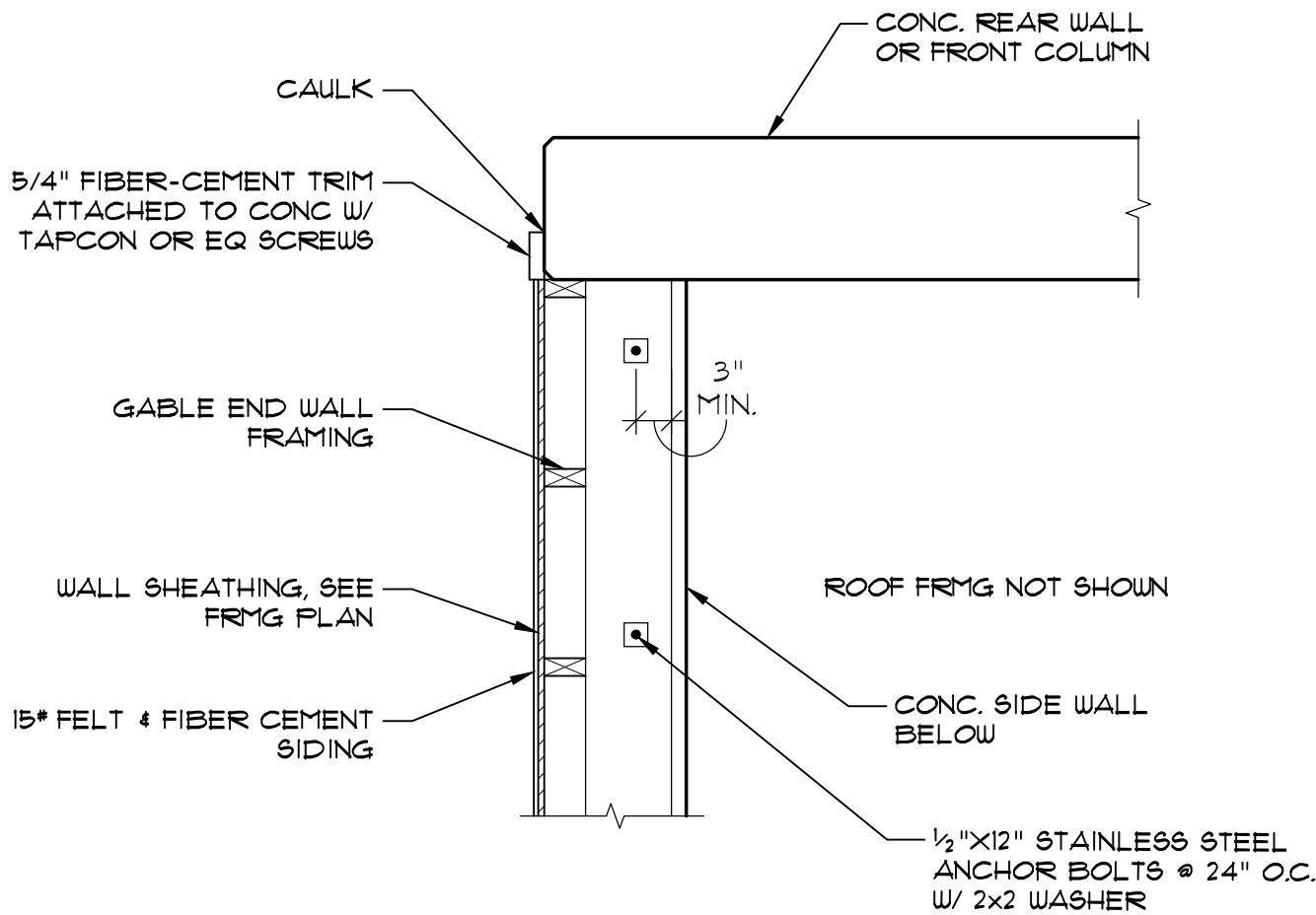
- Structural lumber shall be SPF #2 or better, UON. Wood for fabricated trusses shall be SYP #2 or better, except that webs may be SYP #3.
- Wood in contact with concrete or masonry shall be treated.
- Straps, ties, hangers, & other connection hardware shall be galvanized.
- Connections not otherwise 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"

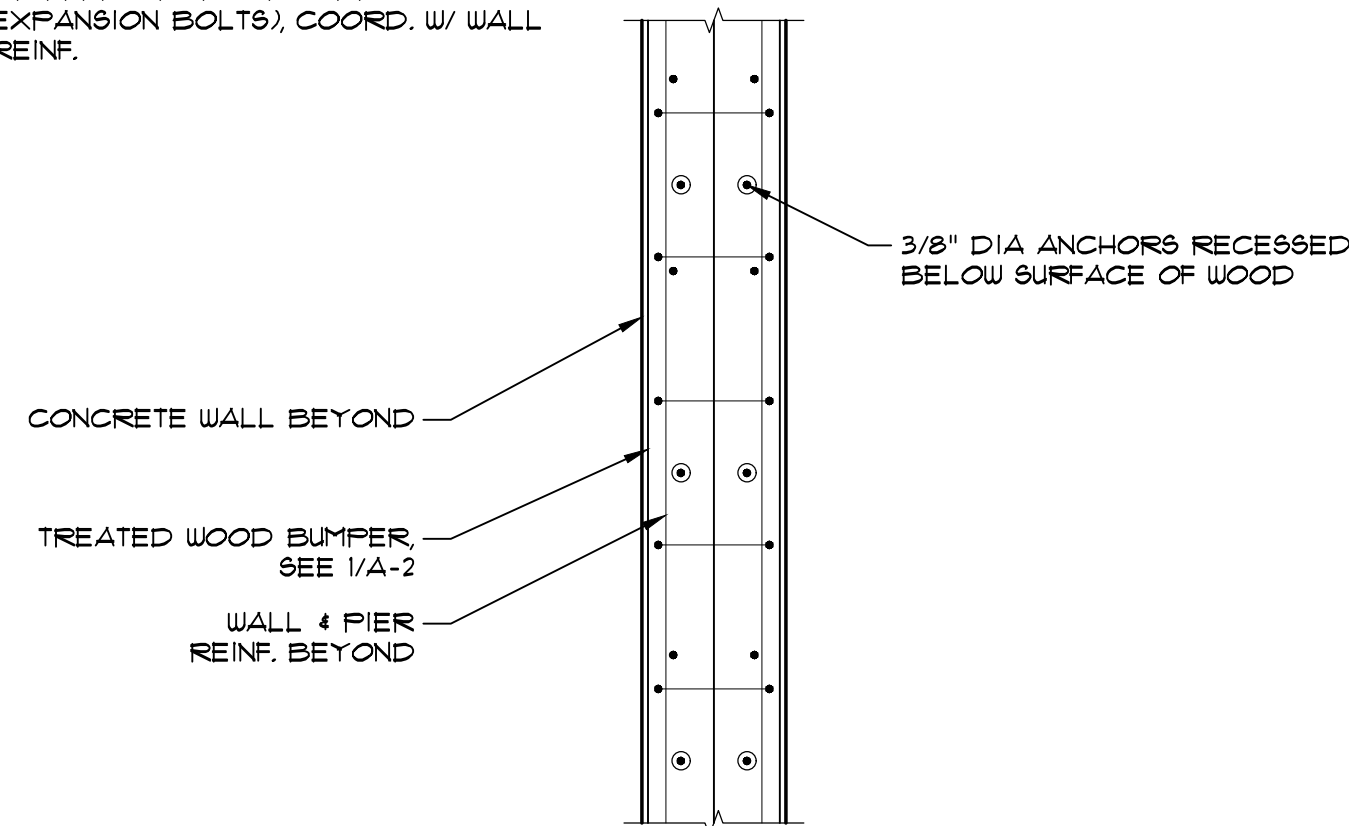
NOTE:
THIS DETAIL APPLIES AT EA END OF
GABLE WALLS. AT FRONT COLUMN,
EXTEND WALL FRAMING TO ENCLOSE
END OF BEAM



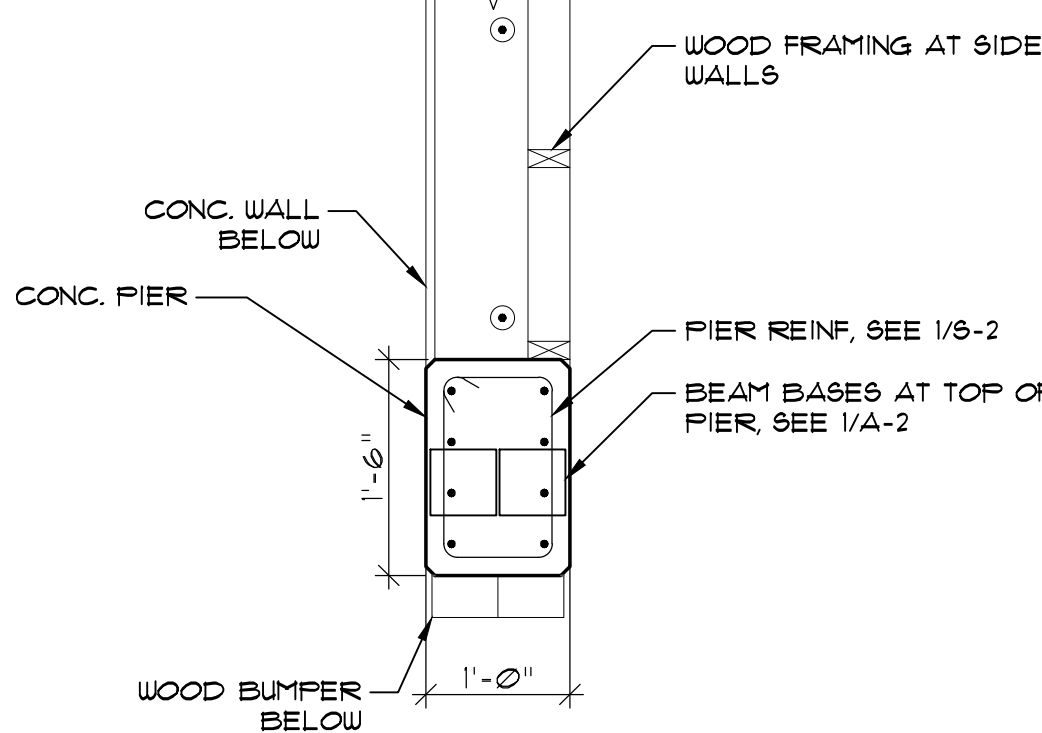
5
5-2
GABLE WALL TRIM DETAIL
SCALE: 3/4"=1'-0"

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

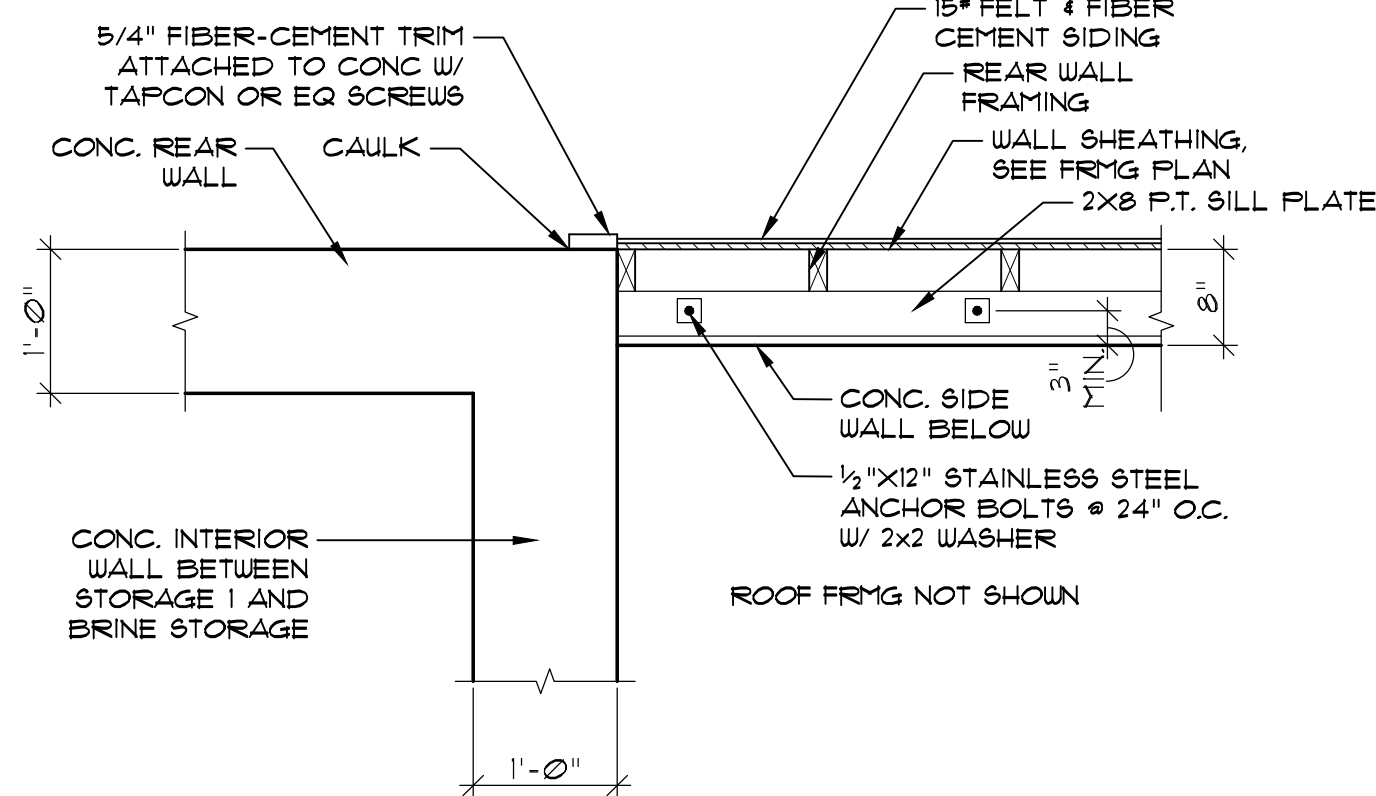
2. ANCHORS SHALL BE STAINLESS
STEEL & MAY BE CAST IN PLACE OR
DRILLED ADHESIVE TYPE (NOT
EXPANSION BOLTS), COORD. W/ WALL
REINF.



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

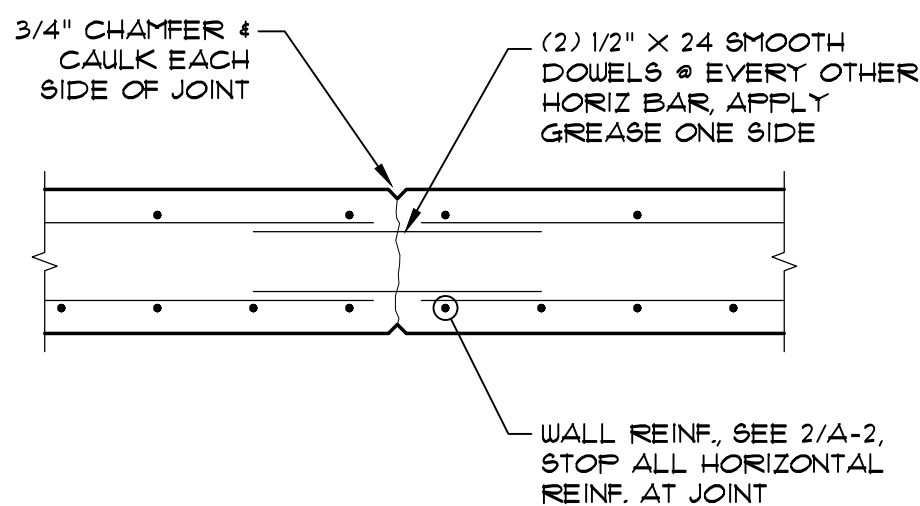


2
5-2
CONCRETE PIER
SCALE: 3/4"=1'-0"

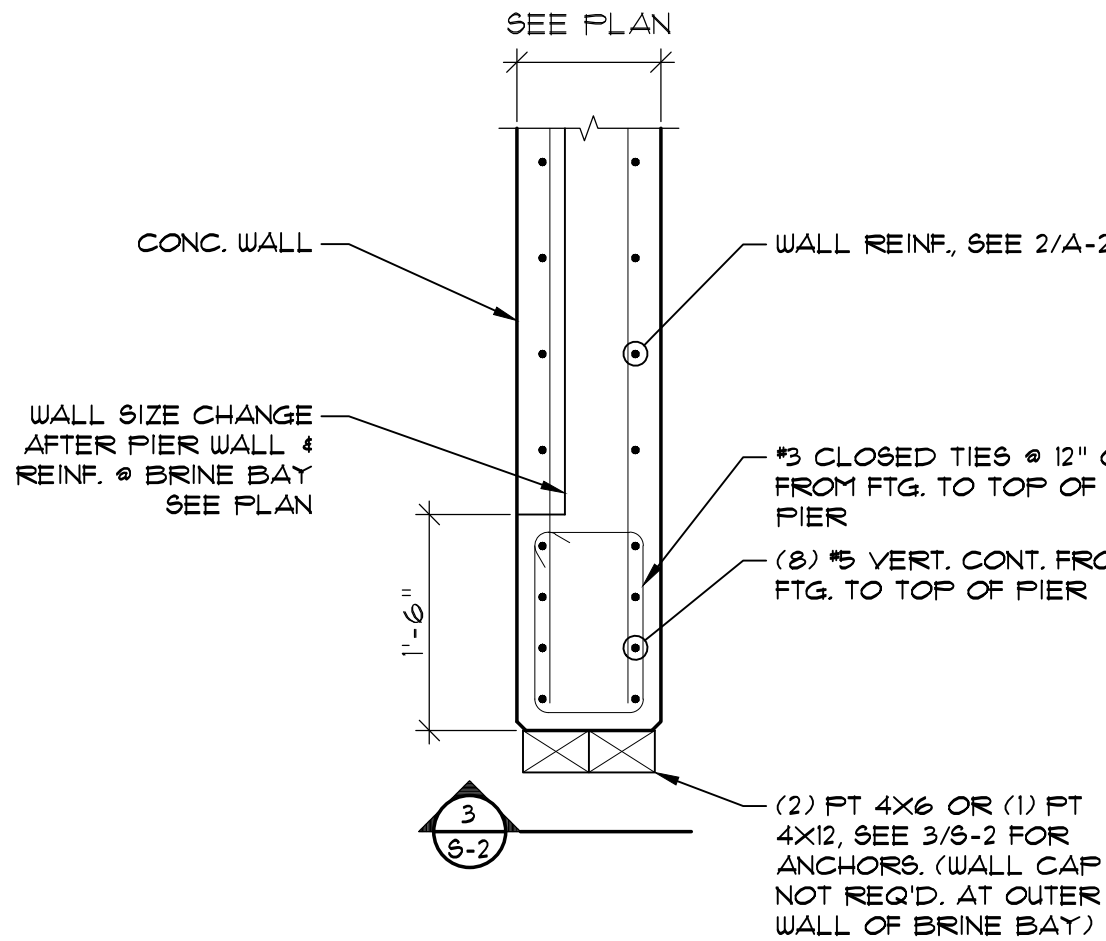


7
5-2
WALL TRANSITION DETAIL
SCALE: 3/4"=1'-0"

- 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 2017 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 NCCOI 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 surface.
 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 2017 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 ICEA and shall be third party acceptable to NCCOI 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 plenum rated.

- G. Provide GFI protection within 6'-0" of any sink.

- H. Multi-wire branch circuits are not allowed per SCO Guidelines

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 penicill 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 too many 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. Guarantees 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.

GENERAL LEGEND

FLUORESCENT STRIP – SUSPENDED, CEILING OR WALL MOUNTED.

DUPLEX RECEPTACLE – 120V; MOUNT 18" TO CENTER AFF UNLESS NOTED OTHERWISE. "WP" INDICATES WEATHER PROOF. "GFI" INDICATES GROUND FAULT CURRENT INTERRUPT PROTECTED. "S" INDICATES SHUNT TRIP PROTECTED.

SINGLE-POLE HOMERUN TO PANELBOARD

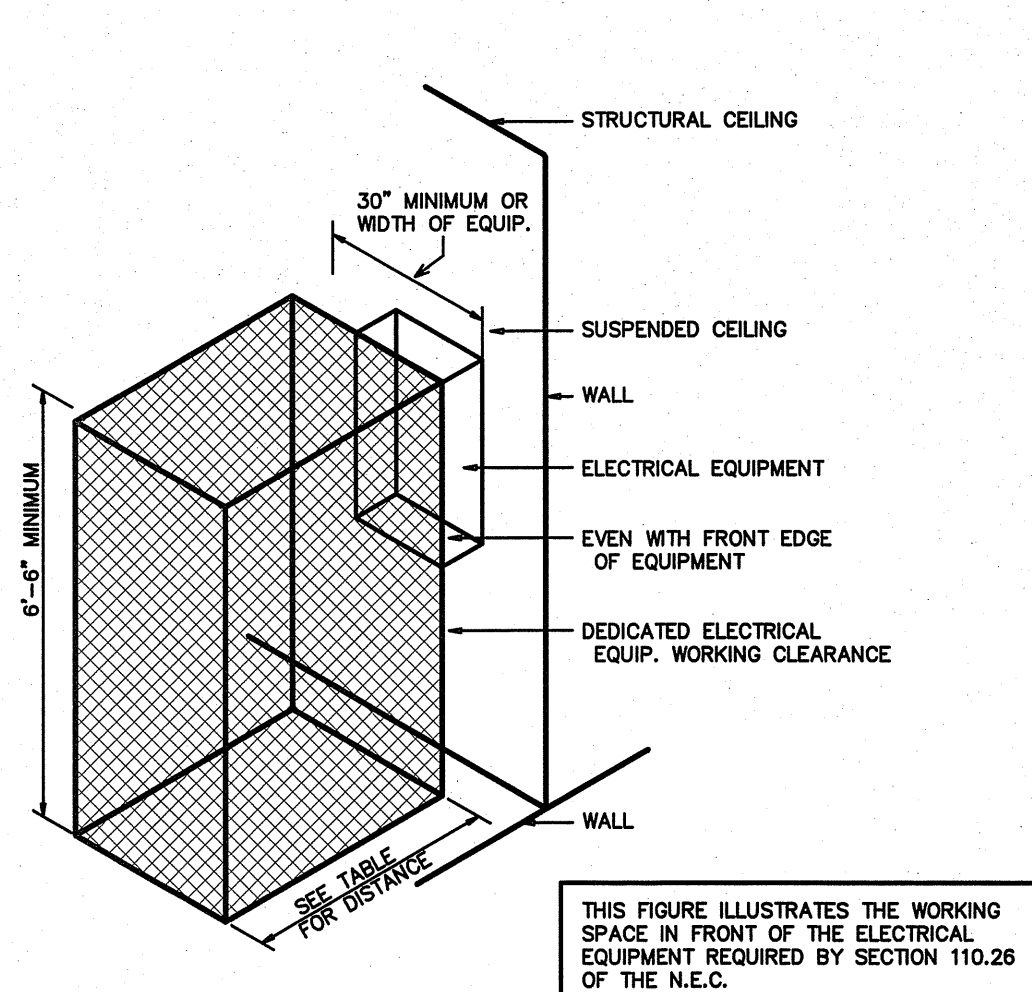
BRANCH CIRCUIT WIRING

SWITCH LEG

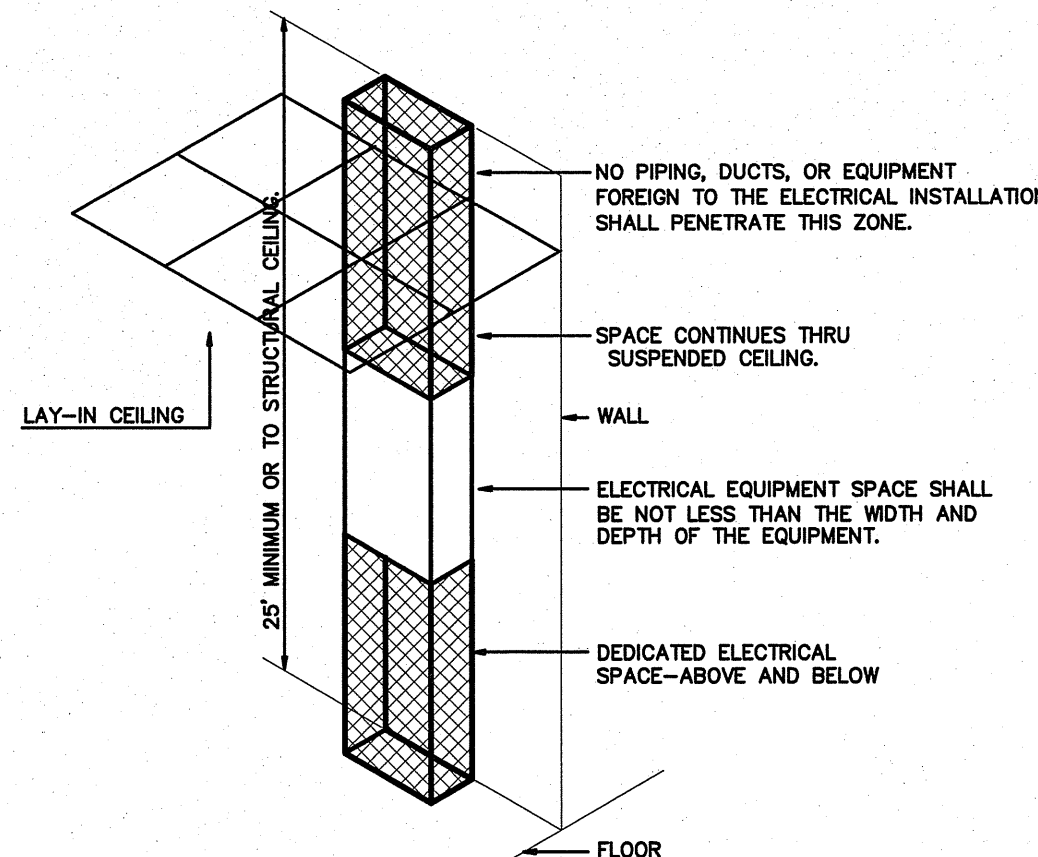
GROUND CONNECTION

DISTRIBUTION PANELBOARD

DISTRIBUTION PANELBOARD



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 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 638 va / 1650 va (whole building or space by space) total exterior wattage specified vs allowed 90 va / 720 va	
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	

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MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA

ELECTRICAL
SPECIFICATIONS

21015

ISSUED: 06-22-22

DWG BY: BEB

CKD BY: BEB

REVISIONS

SHEET NO.

E-1

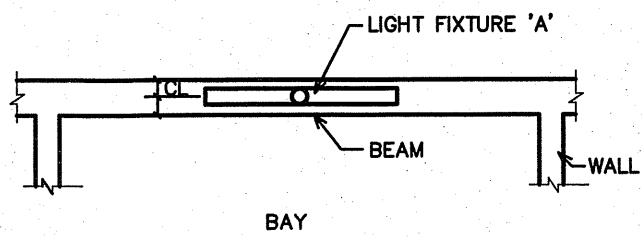
Martin City Salt Shed E2				MAKE: CUTLER HAMMER				RATING: 120/240 1 PHASE 3 WIRE				30A MAIN CIRCUIT BREAKER			
NEW PANEL- 'A'				TYPE: PRL1g				MOUNTING: SURFACE				EQUIPMENT GROUND BUS ☒ YES ☐ NO			
NEMA 3R				OR APPROVED EQUAL *				MINIMUM AIC: 22,000				SERVICE ENTRY RATED ☒ YES ☐ NO			
LOAD SERVICE		CKT BRKR	WATTS PER PHASE A B		CKT NO	NEUTRAL A B		CKT NO	WATTS PER PHASE A B		CKT BRKR	LOAD SERVICE			
LIGHTS- INTERIOR		20A	638		1			2	1478		30A	BRINE PUMP 3 HP, 12.3 FLA			
RECEPTACLES		20A	540		3			4	1478						
LIGHTS-EXTERIOR		20A	90		5			6	----		20A	SPARE			
SPARE		20A	----		7			8	----		20A	SPARE			
SPARE		20A	----		9			10	----		20A	SPARE			
SPACE		20A	----		11			12	----		20A	SPACE			
NOTES		SUB-TOTALS 'B'		728	540	100A BUS		1478	1478	SUB-TOTALS 'A'		TOTAL CONNECTED LOAD			
NEMA 3R						100A LUGS		728	540	SUB-TOTALS 'B'					
						30A FEED		2204	2016	GRAND TOTAL					
						VERIFY SIZE		18A	17A	AMPS/PHASE					
NEC ALLOWABLE DEMAND FACTORS						DIVERSIFIED LOAD SUMMARY									
① DEMAND FACTORS PER NEC 220 ② LARGEST OF: NEC TABLE 220.12 OR CONNECTED LOAD ③ NEC TABLE 220.56 ④ NEC 220.51 ⑤ NEC 220.43A, 200 VA/LINEAR FT ⑥ NON-COINCIDENT LOADS, LARGEST OF THE TWO LOADS IS COUNTED						LOAD TYPE		DEMAND FACTOR		A	B	TOTAL DIVERSIFIED LOAD			
						GENERAL LIGHTING		①	125%	910	----	910			
						TRACK LIGHTING			125%	----	----	----			
						GENERAL USE RECEPTACLES			< 100 V/AMPS	----	540	540			
									< 100 V/AMPS	----	----	----			
						MOTORS AND EQUIPMENT		LARGEST	125%	1845	1845	3690			
						WATER HEATERS		ALL OTHERS	100%	----	----	----			
									125%	----	----	----			
						KITCHEN EQUIPMENT		①	100%	----	----	----			
						FIX. ELEC. SPACE HEAT.		①	100%	----	----	----			
						SHOW WINDOW LIGHTS		①	125%	----	----	----			
						SIGN			125%	----	----	----			
						MISC			100%	----	----	----			
								PHASE (TOTAL VA)		2755	2385	5140			
								TOTAL AMPS		23A	20A	43A			
										43A AMPS = 21A		TOTAL AMPS			

* OR APPROVED EQUAL BY SQUARE D OR GE.

Martin City Salt Shed E2		LIGHTING SCHEDULE *									
MARK	MANUFACTURER	CATALOG NO.	VOLT.	NO.	LAMPS	BALLAST	W/	REMARKS			
A	METALLUX	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-SL-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:

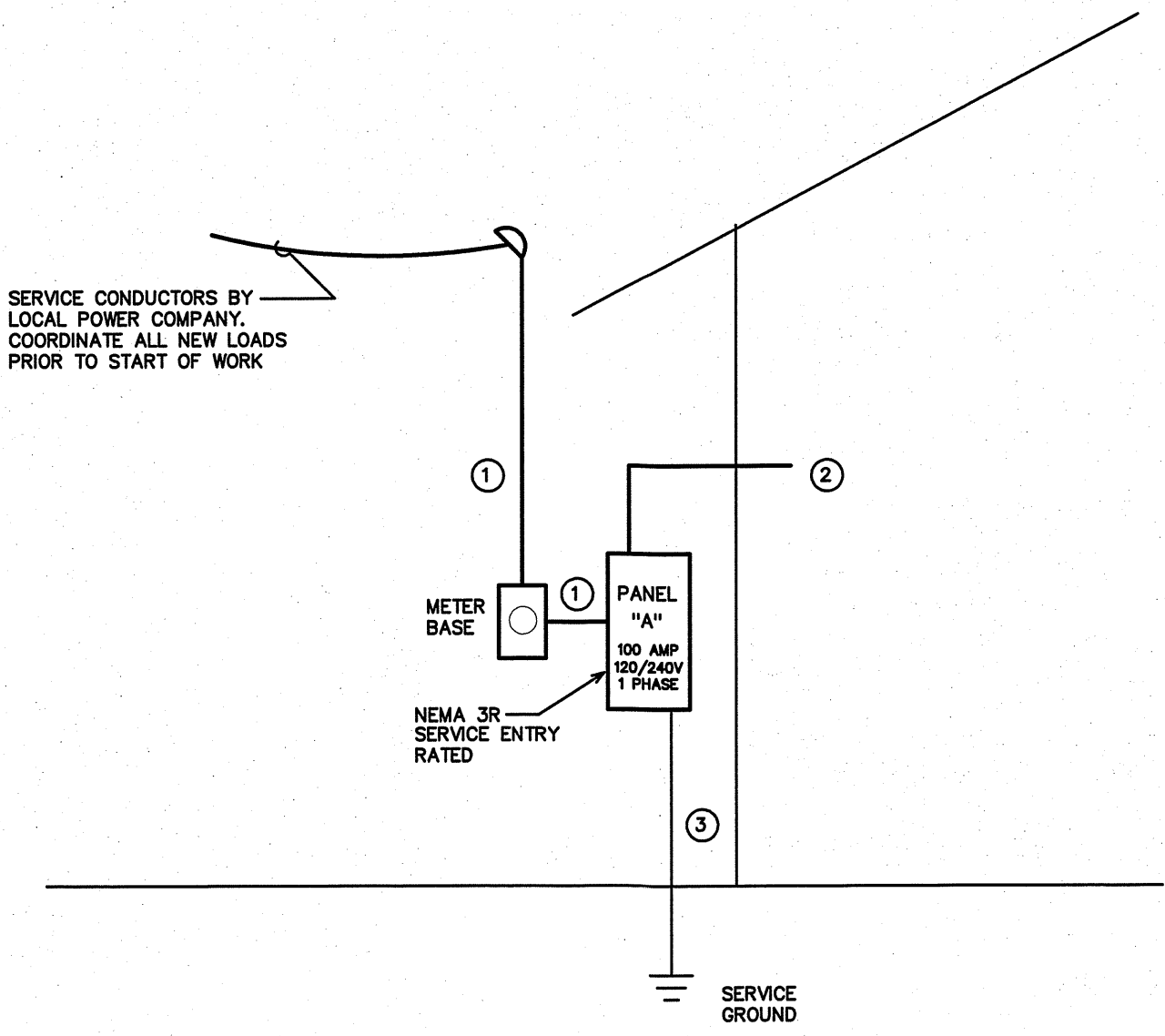
1. SURFACE MOUNT LIGHT FIXTURE TO BEAM WITH LENS FACING INTO BAY.
2. CENTER LIGHT FIXTURE ON BEAM IN MIDDLE OF BAY.
3. TYPICAL OF THREE (3) FIXTURES.

3 FIXTURE MOUNTING DETAIL

NOT TO SCALE

NOTES:

- 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.



2 ELECTRICAL SERVICE RISER

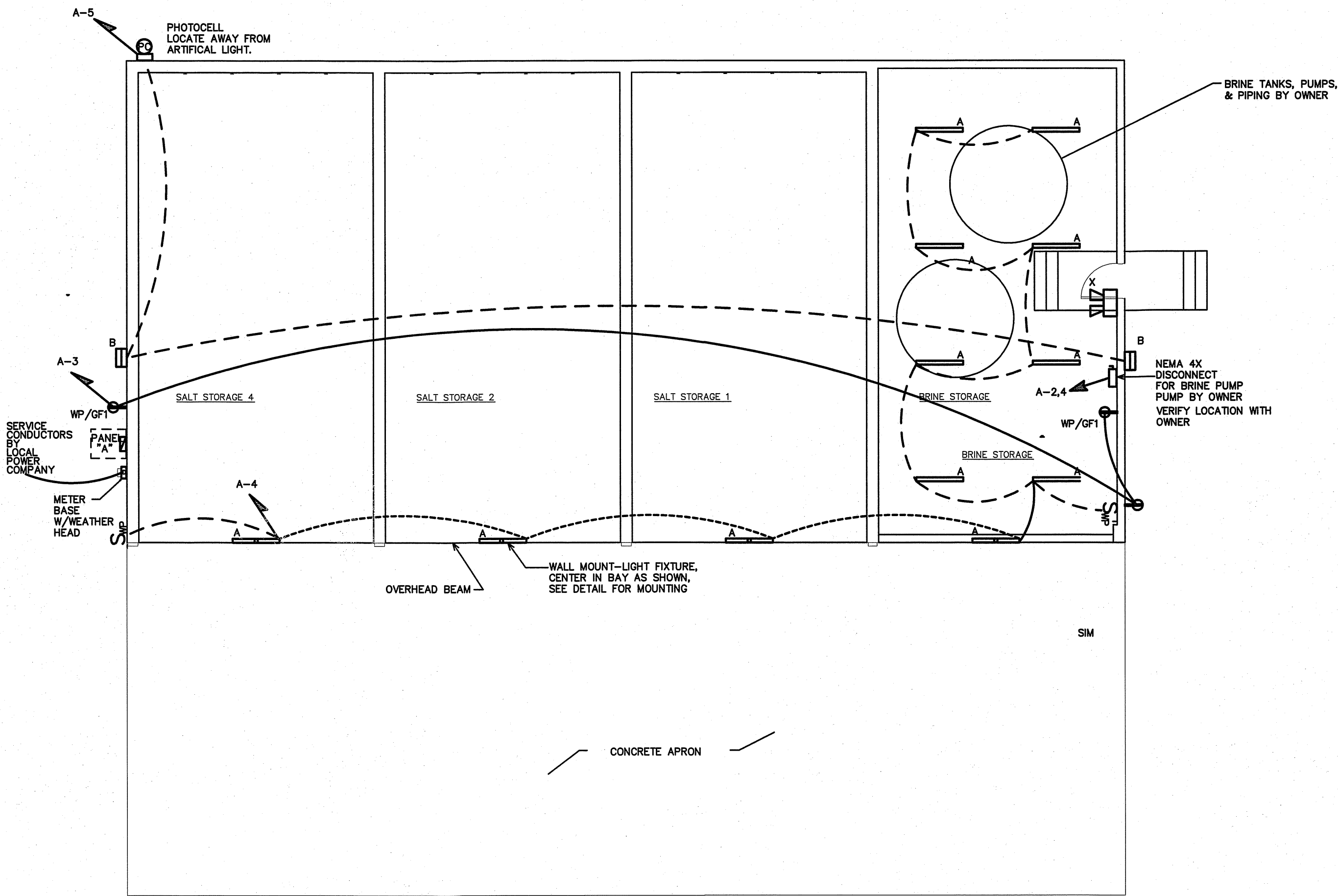
NOT TO SCALE

RISER WIRING SCHEDULE

- ① 100A: 3-#3 IN 1" CONDUIT
- ② BRINE PUMP (240V)
- ③ 30A: 2-#10, 1-#10 CU GND, IN 3/4" CONDUIT
- ④ #6 CU GND TO BUILDING STEEL FOUNDATION STEEL AND #6 CU GND TO 10' X 5/8" DRIVEN GROUND ROD

NOTE: UNLESS OTHERWISE NOTED ALL OTHER CIRCUITS ARE 20A, 120VOLT. PROVIDE 2-#12, 1-#12 CU GND IN 1/2" CONDUIT.

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.



1 FLOOR PLAN

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

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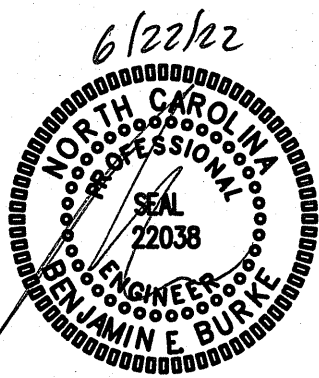


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MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA



ELECTRICAL
PLANS

21015

ISSUED: 06-22-22

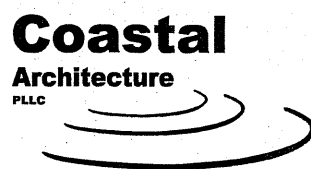
DWG BY: BEB

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REVISIONS

SHEET NO.

E-2



Architectural
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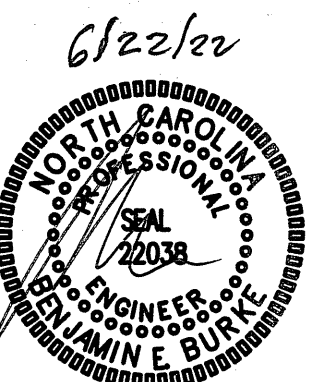


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MARTIN COUNTY SALT SHED
SCO ID# 21-23599-01A
MARTIN COUNTY, NORTH CAROLINA



ELECTRICAL
SITE PLAN

21015

ISSUED: 06-22-22

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CKD BY: BEB

REVISIONS

SHEET NO.

E-3

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