

STOLZ SERVICES, INC. OFFICE & WAREHOUSE

2990 BRANTLEY ROAD KANNAPOLIS, NC 28083

PROJECT TEAM

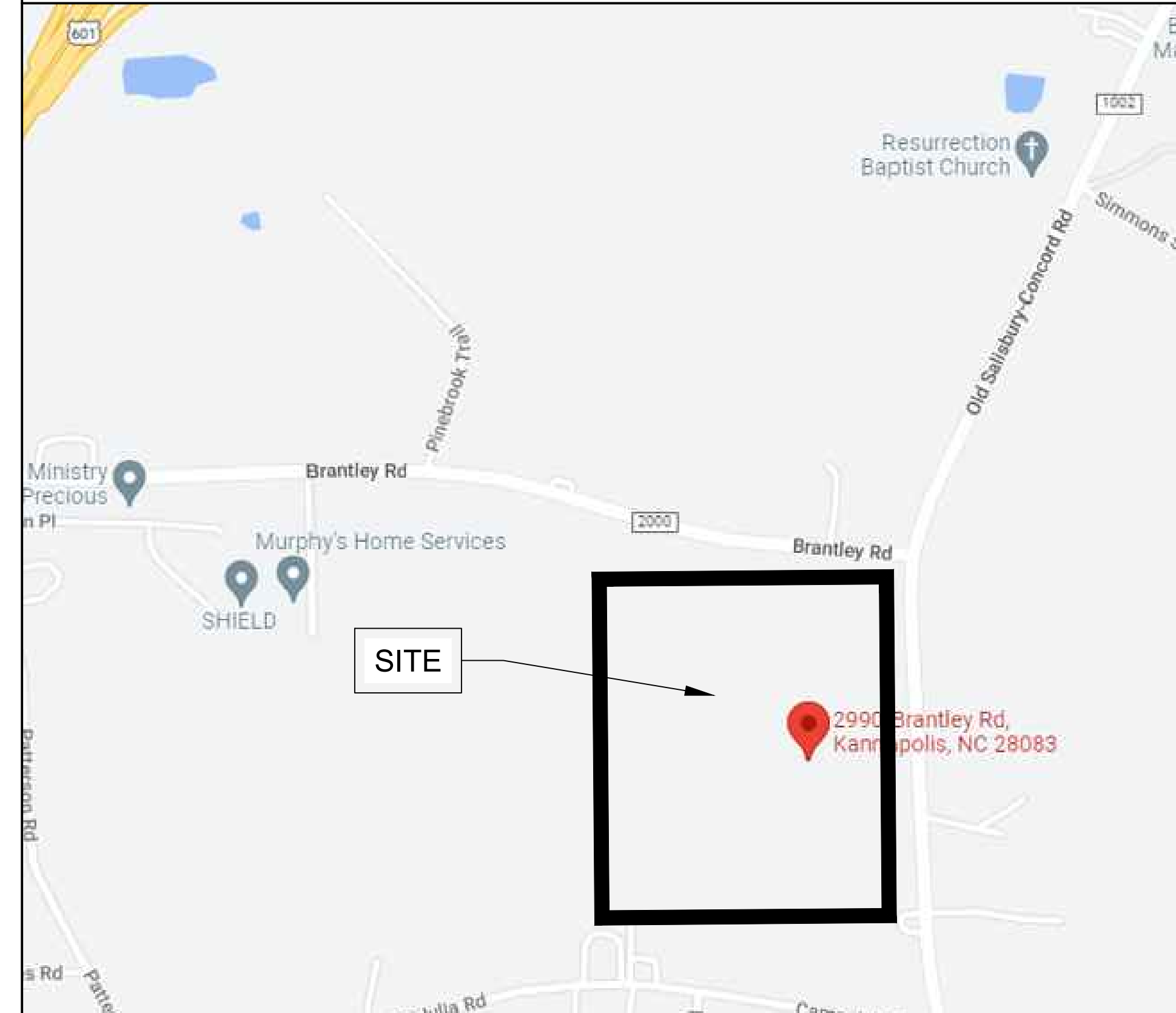
<p>OWNER</p> <p>STOLZ SERVICES INC. 710 MAPLE AVE. KANNAPOLIS, NC 28083 T: 704-699-8811 E: ERIN@STOLZSERVICES.COM CONTACT: ERIN CRESS</p>	<p>ARCHITECT</p> <p>THE BOGLE FIRM 110 N MAIN ST SUITE 200 SALISBURY, NC 28144 T: 704-638-2015 E: PETE@BOGLEFIRM.COM CONTACT: PETE BOGLE</p>	<p>CIVIL</p> <p>KING ENGINEERING OF CONCORD 100 COLD WATER ST. MORGANTON, NC 28655 T: 828-403-5586 E: SAMKINGJR@GMAIL.COM CONTACT: SAM KING JR.</p>
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<p>STRUCTURAL</p> <p>SOLID ROCK STRUCTURAL PLLC 71 GLENHILL LANE HIDDENITE, NC 28636 T: 704-819-6415 E: SCOTT@SOLIDROCKSTRUCTURAL.COM CONTACT: SCOTT WESTMORELAND</p>	<p>P, M & E</p> <p>GAR ENGINEERING, INC. 4454 RACEWAY DR SW #A CONCORD, NC 28027 T: 704-721-6449 E: RYAN@GARENGINEERING.COM CONTACT: RYAN HOLZMEYER</p>	<p>CONTRACTOR</p> <p>LAFAVE CONSTRUCTION 100 COLD WATER ST. LANDIS, NC 28688 T: 704-857-1171 E: CCRIDER@LAFAVECONSTR.COM CONTACT: CHRIS CRIDER</p>
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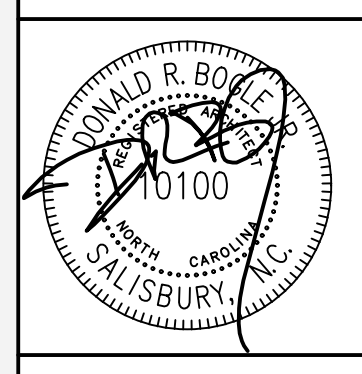


<p>STOLZ SERVICES OFFICE AND WAREHOUSE</p> <p>2990 BRANTLEY ROAD KANNAPOLIS, NC 28083</p>	<p>DRAWN BY: MNB CHECKED BY: DRB DATE: 04.10.2023 PROJECT #: 2235</p>
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COVER SHEET & APPENDIX B

STOLZ SERVICES OFFICE AND WAREHOUSE

2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



<p>DRAWN BY: MNB CHECKED BY: DRB DATE: 04.10.2023 PROJECT #: 2235</p>	<p>SHEET NUMBER A0.1 OF: 11</p>
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Method of Compliance: Energy Code Performance Prescriptive
ASHRAE 90.1 Performance Prescriptive
(If "Other" specify source here)

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: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
STRUCTURAL DESIGN
(PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS:

Importance Factors: Snow (Ia) _____
Seismic (Ia) _____ SEE STRUCTURAL SHEETS

Live Loads: Roof _____ psf
Mezzanine _____ psf
Floor _____ psf

Ground Snow Load: _____ psf

Wind Load: Ultimate Wind Speed _____ mph (ASCE-7)
Exposure Category _____

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 S₁ _____ %g S_s _____ %g
Site Classification (ASCE 7) A B C D E F

Data Source: Field Test Presumptive Historical Data

Basic structural system
 Bearing Wall Dual w/Special Moment Frame
 Building Frame Dual w/Intermediate R/C or Special Steel
 Moment Frame Inverted Pendulum
 Simplified Equivalent Lateral Force Dynamic
 Yes No

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 _____ psf
Pile size, type, and capacity _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
MECHANICAL DESIGN
(PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SUMMARY

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

Thermal Zone
winter dry bulb: _____
summer dry bulb: _____ SEE MECHANICAL SHEETS

Interior design conditions
winter dry bulb: _____
summer dry bulb: _____
relative humidity: _____

Building heating 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: _____

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

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 (whole building or space by space) _____
total exterior wattage specified vs. allowed _____

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

**2018 APPENDIX B
BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS**
ELECTRICAL DESIGN
(PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

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 (whole building or space by space) _____
total exterior wattage specified vs. allowed _____

Additional Efficiency Package Options (When using the 2018 NCECC; not required for ASHRAE 90.1)
 C406.2 More Efficient Mechanical Equipment
 C406.3 Reduced Lighting Power Density
 C406.4 Enhanced Digital Lighting Controls
 C406.5 On-Site Renewable Energy
 C406.6 Dedicated Outdoor Air System
 C406.7 Reduced Energy Use in Service Water Heating

FIRE PROTECTION REQUIREMENTS

BUILDING ELEMENT	FIRE SEPARATION DISTANCE (FEET)	REQ'D	RATING PROVIDED (W - REDUCTION)	DETAIL # AND SHEET #	DESIGN # FOR RATED ASSEMBLY	DESIGN # FOR RATED PENETRATION	DESIGN # FOR RATED JOINTS
Structural Frame, including columns, girders, trusses		0					
Bearing Walls							
Exterior							
North	>30'	0					
East	>30'	0					
West	N/A						
South	N/A						
Interior							
Nonbearing Walls and Partitions							
Exterior walls							
North	N/A						
East	N/A						
West	>30'	0					
South	>30'	0					
Floor Construction		0					
Including supporting beams and joists							
Floor Ceiling Assembly		0					
Column Supporting Floors	N/A						
Roof Construction, including supporting beams and joists	N/A						
Roof Ceiling Assembly	N/A						
Column Supporting Roof	N/A	0					
Shaft Enclosures - Exit	N/A						
Shaft Enclosures - Other	N/A						
Corridor Separators	N/A						
Occupancy/Fire Barrier Separation		2	2HR	A0.2	U419		
Party/Fire Wall Separation	N/A						
Smoke Barrier Separation	N/A						
Smoke Partition	N/A						
Tenant Dwelling Unit Sleeping Unit Separation	N/A						
Incidental Use Separation	N/A						

* Indicate section number permitting reduction

PERCENTAGE OF WALL OPENING CALCULATIONS

FIRE SEPARATION DISTANCE (FEET FROM PROPERTY LINES)	DEGREES OF OPENINGS PROTECTION (TABLE 705.3)	ALLOWABLE AREA (%)	ACTUAL SHOWN ON PLANS (%)
>30'	UP, NS	NO LIMIT	N/A

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting: No Yes

Exit Signs: No Yes

Fire Alarm: No Yes

Smoke Detection Systems: No Yes Partial

Carbon Monoxide Detection: No Yes

LIFE SAFETY PLAN REQUIREMENTS

Life Safety Plan Sheet #: A0.3

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 types 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 (1006.2.1 & 2006.3.2(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 and supporting construction for a fire barrier/fire partition/smoke barrier.

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

Section/Table/Note	Title

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 1109)

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

SEE CIVIL DRAWINGS

PLUMBING FIXTURE REQUIREMENTS (TABLE 2902.1)

SPACE	EXISTING	WATERCLOSETS		URINALS		LAVATORIES		SHOWERS / TUBS		DRINKING FOUNTAINS	
		MALE	FEMALE	MALE	FEMALE	UNISEX	UNISEX	REGULAR	ACCESSIBLE	REGULAR	ACCESSIBLE
REQ'D	2	2		2	2	2	2	2	2	2	2
	2	2		2	2	2	2	0	1	1	1

SPECIAL APPROVALS

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

ENERGY SUMMARY

ENERGY REQUIREMENTS:
The following data shall be considered minimum and any special attribute required to meet the North Carolina Energy Conservation 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 vs annual energy cost for the proposed design.

Existing building envelope complies with code: No Yes (The remainder of this section is not applicable)

Exempt Building: No Yes (Provide Code or Statutory reference) **NCEC: C101.2 Exception 2**

Climate Zone: 3A 4A 5A

**2018 APPENDIX B
BUILDING CODE SUMMARY
FOR ALL COMMERCIAL PROJECTS
(EXCEPT 1 AND 2-FAMILY DWELLINGS AND TOWNHOUSES)**
(Reproduce the following data on the building plans sheet 1 or 2)

Name of Project: Stolz Services Inc Office and Warehouse

Address: 2990 Brantley Road, Kannapolis NC Zip Code: 28083

Owner/Authorized Agent: Pete Bogle Phone # (704) 638-2015 Email: pete@boglefirm.com

Owned By: City/County Private State

Code Enforcement Jurisdiction: City County Cabarrus State

CONTACT:

DESIGNER	FIRM	NAME	LICENSE #	TELEPHONE #	E-MAIL
Architectural	Bogle Firm Architecture	Pete Bogle	10100	(704) 638-2015	pete@boglefirm.com
Civil	King Engineering	Samuel King	14520	(828) 403-5586	samkingjr@gmail.com
Electrical	GAR Engineering	Greg Riffe	16396	(704) 721-6449	greg@garengineering.com
Fire Alarm					
Plumbing	GAR Engineering	Greg Riffe	16396	(704) 721-6449	greg@garengineering.com
Mechanical	GAR Engineering	Greg Riffe	16396	(704) 721-6449	greg@garengineering.com
Sprinkler-Standpipe					
Structural	Solid Rock Structural PLLC	Scott Westmoreland	027444	(704) 819-6415	scott@solidrockstructural.com
Retaining Walls >4' High					

Other _____
("Others" should include firms and individuals such as truss, precast, pre-engineered, interior designers, etc.)

2018 NC CODE FOR: New Construction Addition Renovation
 1st Time Interior Completion
 Shell/Core
 Phased Construction - Shell/Core
 Renovation

2018 NC EXISTING BUILDING CODE: Prescriptive Repair Chapter 14
Alteration: Level I Level II Level III
 Historic Property Change of Use

CONSTRUCTED: (date) _____ **ORIGINAL OCCUPANCY(S)** (Ch. 3): B- Business, S1- Storage
RENOVATED: (date) _____ **CURRENT OCCUPANCY(S)** (Ch. 3): B- Business, S1- Storage

RISK CATEGORY (table 1604.5) Current: I II III IV
Proposed: I II III IV

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 Yes NFPA 13 NFPA 13R NFPA 13D

Standpipes: No Yes Class I II III Wet Dry

Fire District: No Yes (Primary) **Flood Hazard Area:** No Yes

Special Inspections Required: No Yes

Gross Building Area:

FLOOR	EXISTING (SQ FT)	NEW (SQ FT)	RENOVATED (SQ FT)	SUB-TOTAL
6 th Floor				
5 th Floor				
4 th Floor				
3 rd Floor				
2 nd Floor				
Mezzanine				
1 st Floor	0 sf	18,356 sf	0 sf	18,356 sf
Basement				
TOTAL	0 sf	18,356 sf	0 sf	18,356 sf

ALLOWABLE AREA

Primary Occupancy Classification:

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 Condition I-2 I-3 Condition I-4

Mercantile

Residential R-1 R-2 R-3 R-4

Storage S-1 Moderate S-2 Low High-piled

Utility and Miscellaneous Parking Garage Open Enclosed Repair Garage

Accessory Occupancy Classification(s): _____

Incidental Uses (Table 509): _____

Special Uses (Chapter 4 - List Code Sections) _____

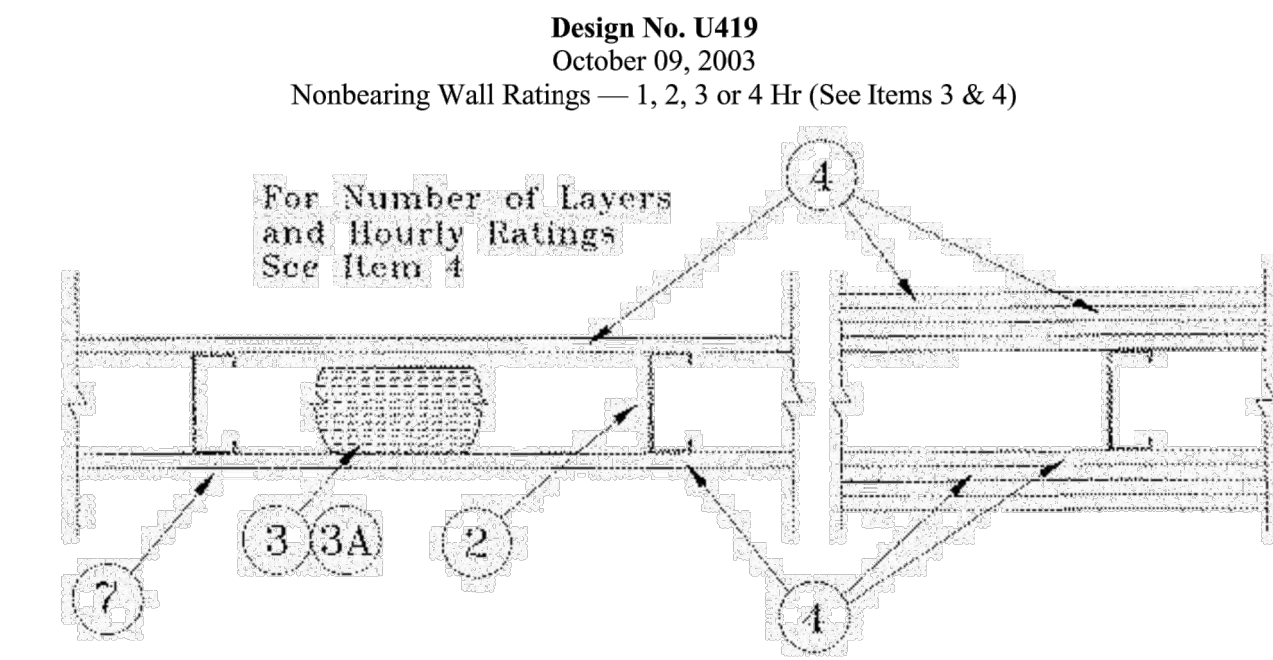
Special Provisions (Chapter 5 - List Code Sections) _____

Mixed Occupancy: No Yes Separation: 2HR Exception: _____

Non-Separated Use (508.3)
The required type of construction for the building shall be determined by applying the height and area limitations for each of the applicable occup

GENERAL NOTES

1. WHERE ACRONYMS OR ABBREVIATIONS ARE USED ON THE PLANS, THEY ARE DEFINED TO MEAN THE RECOGNIZED NAME OF THE PERSON, OBJECT, MATERIAL TYPICALLY USED IN THE CONSTRUCTION INDUSTRY, INCLUDED (BUT NOT LIMITED TO):
 CMU - CONCRETE MASONRY UNIT
 GYP. BD. - GYPSUM BOARD
 GC - GENERAL CONTRACTOR
 ELECT. CONTR. (EC) - ELECTRICAL CONTRACTOR
 PLUMB. CONTR. (PC) - PLUMBING CONTRACTOR
 HVAC - HEATING, VENTILATING AND AIR CONDITIONING
 WWF - WELDED WIRE FABRIC (ALSO WWM)
 UNO or UNM - UNLESS NOTED OTHERWISE
 MTL - METAL
 HM - HOLLOW METAL
 TYP. - TYPICAL
 RE-BAR - REINFORCING BAR
 W/ - WITH
 @ x O.C. - AT 'X' DISTANCE ON CENTER
2. PRESUMPTIVE SOIL BEARING CAPACITY OF 2000 PSF. IF CONTRACTOR SUSPECTS LESSER BEARING CAPACITIES, PROMPTLY NOTIFY THE ARCHITECT.
3. NEW CONSTRUCTION SHALL BE PARALLEL OR PERPENDICULAR TO ADJACENT BUILDING.
4. GENERAL CONTRACTOR TO ACT AS PROJECT COORDINATOR.
5. CAULK ALL JOINTS AROUND DOOR AND WINDOW FRAMES AND OTHER POTENTIAL AIR, LIGHT AND WATER PASSAGES, TYPICAL AT INTERIOR AND EXTERIOR CONDITIONS. FILL ANY VOIDS GREATER THAN 1/2" W/ MATERIAL MATCHING ADJACENT CONSTRUCTION, OR AS APPROVED BY ARCHITECT.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE VISITS REQUIRED TO THOROUGHLY FAMILIARIZE HIMSELF WITH THE SITE BUILDING CONDITIONS, VERIFY LOCATION OF ALL PROPERTY BOUNDARIES, ELEVATIONS, EXISTING UTILITIES, STORM LINES, CATCH BASINS, PRIOR TO SUBMITTING BID.
7. THE CONTRACTOR SHALL APPLY AND PAY FOR ALL PERMITS, FEES, ETC., AND DISPLAY PERMITS AS PER LOCAL ORDINANCES, BUILD & DISPLAY CONSTRUCTION SIGN PER SPECIFICATIONS.
8. CONSTRUCTION STAGING AREA SHALL BE LIMITED TO THE AREAS DIRECTLY ADJACENT TO THE BUILDING. ALL DRIVEWAYS SHALL REMAIN UNENCUMBERED WITH CONSTRUCTION MATERIALS OR EQUIPMENT. SEE DEMO NOTES & SITE NOTES.
9. ALL RUBBISH FROM DEMOLITION AND/OR CONSTRUCTION SHALL BE REGULARLY REMOVED FROM THE SITE.
10. PROVIDE BARRIERS AT ALL PLACES ON SITE WHERE REQUIRED TO PROTECT THE PUBLIC.
11. EACH TRADE IS RESPONSIBLE FOR MAKING PROVISIONS FOR NECESSARY FLOOR, WALL, AND ROOF PENETRATIONS REQUIRED FOR THEIR WORK. SUCH PENETRATIONS BEING COORDINATED WITH THE GENERAL CONTRACTOR. ROOFING SUB-CONTRACTOR SHALL MAKE ALL PENETRATIONS WATER TIGHT.
12. STUD PARTITION WALLS ARE TO BE FILLED W/ SOUND INSULATION WHERE SHOWN. SEE WALL TYPES.
13. PROVIDE UNTELS FOR ALL MASONRY OPENINGS IN ALL NEW AND EXISTING WALL OPENINGS INDICATED ON PLANS. INSTALL UNTEL SIZED FOR SPAN AND IMPOSED LOAD.
14. PROVIDE SOLID WOOD BRACING & BLOCKING WITHIN ALL STUD PARTITIONS @ WALL MOUNTED SHELVING, CHAIR RAILS, HANDICAPPED RAILS, TOILET ACCESSORIES, MARKER BOARDS, EWC, FEC, DOOR STOPS, CORRIDOR HANDRAILS, ETC.
15. PROVIDE WEEP HOLES ABOVE ALL THRU-WALL FLASHING AT 32" O.C.
16. DO NOT APPLY CONCRETE SEALER ON FLOORS TO RECEIVE HARD TILE, SETTING BEDS, OR OTHER FINISHES REQUIRING UNSEALED CONCRETE. SEE FINISH SCHEDULE.
17. MIN. DIMENSION ON LATCH SIDE OF INTERIOR DOORS IS 18" ON PULL SIDE OF DOORS (FRONT APPROACH), 24" ON PULL SIDE OF DOOR (SIDE APPROACH), & 12" ON PUSH SIDE OF DOORS.
18. WALLS TO BE REMOVED MUST BE TORN OUT WITH CAUTION. NOTIFY THE ARCHITECT PROMPTLY IF EVIDENCE IS FOUND THAT ANY WALL IS SUPPORTING STRUCTURAL LOADS. ACTIVE WIRING, CABLING, OR PLUMBING FOUND IN WALLS SCHEDULED TO BE REMOVED SHALL BE REROUTED TO NEW PARTITIONS AS REQUIRED. ALL ACTIVE SERVICES MUST REMAIN ACTIVE AT THE END OF THE RENOVATION PROJECT.
19. PROTECT EXISTING UTILITIES UNTIL NEW SERVICE ROUTES ARE INSTALLED AND FUNCTIONAL. SCHEDULE AND COORDINATE SERVICE DISRUPTION AND SERVICE CHANGE-OVER WITH THE OWNER PRIOR TO ANY DISRUPTION OCCURRING.
20. DEMO ALL EXPOSED, ABANDONED PLUMBING, HVAC, AND ELECTRICAL SERVICES AND EXPOSED EQUIPMENT DEVICES. WIRING AND PIPING MAY REMAIN CONCEALED IN WALLS & MUST BE COMPLETELY DISCONNECTED. PATCH AND/OR FIX ALL AREAS AFFECTED BY REMOVAL. EACH TRADE SHALL REMOVE ABANDONED ITEMS WITHIN THEIR FIELD.
21. PROVIDE DUST SCREEN BARRIERS IN AREAS WHERE NEW CONSTRUCTION WILL OCCUR TO PROTECT AREAS OF THE BUILDING OUTSIDE OF THE RENOVATION PROJECT. COORDINATE WITH OWNER ON SCREEN LOCATIONS AND ACCESS THROUGH CONSTRUCTION OVERLAP AREAS.
22. MAKE ALL NECESSARY PROVISIONS AND PENETRATIONS FOR INSTALLATION OF CONSTRUCTION INDICATED ON RENOVATION DRAWINGS INCLUDING PLUMBING, MECHANICAL, AND ELECTRICAL PENETRATIONS NEEDED. WHEN PROVIDING OPENINGS IN STRUCTURAL CONCRETE FLOOR SLABS.
23. CONTRACTORS ARE REQUIRED TO FOLLOW ALL OSHA REGULATIONS IN CONJUNCTION WITH ALL DEMOLITION AND CONSTRUCTION.
24. IF NO DIMENSION IS GIVEN, ALIGN NEW WALL WITH EXISTING BUILDING COMPONENTS AS INDICATED ON PLAN DRAWING.
25. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ANY DEMOLITION REQUIRED TO ACHIEVE LAYOUTS AS SHOWN ON RENOVATION DRAWINGS. IF SUCH REQUIRED DEMOLITION IS NOT SHOWN ON THE DEMOLITION PLAN, THE CONTRACTOR MUST STILL PROVIDE IT AS THE DEMOLITION PLAN IS INTENDED TO BE USED IN CONJUNCTION WITH THE RENOVATION PLAN. A DEMOLITION SUB-CONTRACTOR SHALL NOT RELY SOLELY ON THE INFORMATION GIVEN ON THE DEMOLITION DRAWINGS.



1. **Floor and Ceiling Runners** — (Not shown) — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width to accommodate stud size, with min 1 in. long legs, attached to floor and ceiling with fasteners 24 in. OC max.
2. **Steel Studs** — Channel shaped, fabricated from min 25 MSG corrosion-protected steel, min width as indicated under Item 4, min 1-1/4 in. flanges and 1/4 in. return, spaced a max of 24 in. OC. Studs to be cut 3/8 to 3/4 in. less than assembly height.
3. **Batts and Blankets** — (Required as indicated under Item 4) — Mineral wool batts, friction fitted between studs and runners. Min nom thickness as indicated under Item 4. See **Batts and Blankets (BKNV or BZZJ) Categories** for names of Classified companies.
- 3A. **Batts and Blankets** — (Optional) — Placed in stud cavities, any glass fiber or mineral wool insulation bearing the UL Classification Marking as to Surface Burning Characteristics and/or Fire Resistance. See **Batts and Blankets (BKNV or BZZJ) Categories** for names of Classified companies.
4. **Gypsum Board** — Gypsum panels with beveled, square or tapered edges, applied vertically or horizontally. Vertical joints centered over studs and staggered one stud cavity on opposite sides of studs. Vertical joints in adjacent layers (multilayer systems) staggered one stud cavity. Horizontal joints need not be backed by steel framing. Horizontal edge joints and horizontal butt joints on opposite sides of studs need not be staggered. Horizontal edge joints and horizontal butt joints in adjacent layers (multilayer systems) staggered a min of 12 in. The thickness and number of layers for the 1 hr, 2 hr, 3 hr and 4 hr ratings are as follows:
 Wallboard Protection on Each Side of Wall

Rating	Min Stud Depth	No. of Layers & Thkns of Panel	Min Thkns of Insulation (Item 3)
1	3-1/2	1 layer, 5/8 in. thick	Optional
1	2-1/2	1 layer, 1/2 in. thick	1-1/2 in.
1	1-5/8	1 layer, 3/4 in. thick	Optional
2	1-5/8	2 layers, 1/2 in. thick	Optional
2	1-5/8	2 layers, 5/8 in. thick	Optional
2	3-1/2	1 layer, 3/4 in. thick	3 in.
3	1-5/8	3 layers, 1/2 in. thick	Optional
3	1-5/8	2 layers, 3/4 in. thick	Optional
3	1-5/8	3 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 5/8 in. thick	Optional
4	1-5/8	4 layers, 1/2 in. thick	Optional
4	2-1/2	2 layers, 3/4 in. thick	2 in.

CANADIAN GYPSUM COMPANY — 1/2 in. thick Type C, IP-X2 or IPC-AR; WRC, 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX or WRC; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

UNITED STATES GYPSUM CO — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type SCX, SHX, WRX, IP-X1, AR, C, WRC, FRX-G, IP-AR, IP-X2, IPC-AR; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

USG MEXICO S A DE C V — 1/2 in. thick Type C, IP-X2, IPC-AR or WRC; 5/8 in. thick Type AR, C, IP-AR, IP-X1, IP-X2, IPC-AR, SCX, SHX, WRX, WRC or; 3/4 in. thick Type IP-X3, ULTRACODE, ULTRACODE SHC or ULTRACODE WRC.

4A. **Gypsum Board** — (As an alternate to Item 4) — 5/8 in. thick, 2 ft. wide, tongue and groove edge, applied horizontally as the outer layer to one side of the assembly. Secured as described in Item 5. Joint covering (Item 7) not required.
CANADIAN GYPSUM COMPANY — Type SHX.

UNITED STATES GYPSUM CO — Type SHX.

USG MEXICO S A DE C V — Type SHX.

5. **Fasteners** — (Not shown) — Type S or S-12 steel screws used to attach panels to studs (Item 2) or furring channels (Item 6). **Single layer systems:** 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 8 in. OC when panels are applied horizontally, or 8 in. OC along vertical and bottom edges and 12 in. OC in the field when panels are applied vertically. Two layer systems: First layer- 1 in. long for 1/2 and 5/8 in. thick panels or 1-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels or 2-1/4 in. long for 3/4 in. thick panels, spaced 16 in. OC with screws offset 8 in. from first layer. **Three-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in., 5/8 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below. **Four-layer systems:** First layer- 1 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Second layer- 1-5/8 in. long for 1/2 in., 5/8 in. thick panels, spaced 24 in. OC. Third layer- 2-1/4 in. long for 1/2 in. thick panels or 2-5/8 in. long for 5/8 in. thick panels, spaced 24 in. OC. Fourth layer- 2-5/8 in. long for 1/2 in. thick panels or 3 in. long for 5/8 in. thick panels, spaced 12 in. OC. Screws offset min 6 in. from layer below.

6. **Furring Channels** — (Optional, not shown, for single or double layer systems) — Resilient furring channels fabricated from min 25 MSG corrosion-protected steel, spaced vertically a max of 24 in. OC. Flange portion attached to each intersecting stud with 1/2 in. long Type S-12 steel screws. Not for use with Item 4A.

6A. **Steel Framing Members (Not Shown)** — (Optional on one or both sides, not shown, for single or double layer systems) — As an alternate to Item 6, furring channels and Steel Framing Members as described below:

a. **Furring Channels** — Formed of No. 25 MSG galv steel. 2-3/8 in. wide by 7/8 in. deep, spaced max. 24 in. OC perpendicular to studs. Channels secured to studs as described in Item b. Gypsum board attached to furring channels as described in Item 5. Not for use with Item 4A.

b. **Steel Framing Members** — Used to attach furring channels (Item 6a) to studs (Item 2). Clips spaced max. 48 in. OC, and secured to studs with No. 8 x 1-1/2 in. minimum self-drilling, S-12 steel screw through the center grommet. Furring channels are friction fitted into clips.
PAC INTERNATIONAL INC — Type RSIC-1.

7. **Joint Tape and Compound** — Vinyl or casein, dry or premixed joint compound applied in two coats to joints and screw heads of outer layers. Paper tape, nom 2 in. wide, embedded in first layer of compound over all joints of outer layer panels. Paper tape and joint compound may be omitted when gypsum panels are supplied with a square edge.

8. **Siding, Brick or Stucco** — (Optional, not shown) — Aluminum, vinyl or steel siding, brick veneer or stucco, meeting the requirements of local code agencies, installed over gypsum panels. Brick veneer attached to studs with corrugated metal wall ties attached to each stud with steel screws, not more than each sixth course of brick.

9. **Caulking and Sealants** — (Optional, not shown) — A bead of acoustical sealant applied around the partition perimeter for sound control.
UNITED STATES GYPSUM CO — Type AS

*Bearing the UL Classification Mark

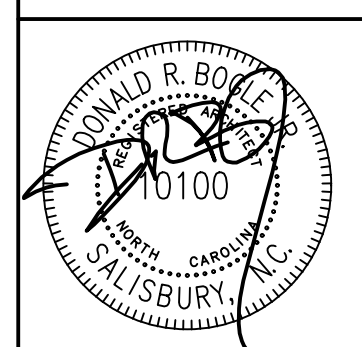


110 N. MAIN ST pete@boglefirm.com
 SUITE 200 www.boglefirm.com
 SALISBURY, NC 28144 704.638.2015

PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY INCLUDED DETAILS MUST BE WITH THE WRITTEN CONSENT OF THE FIRM'S PRINCIPAL ARCHITECT.

UL DETAILS & GENERAL NOTES

**STOLZ SERVICES
 OFFICE AND
 WAREHOUSE**
 2990 BRANTLEY ROAD
 KANNAPOLIS, NC 28083

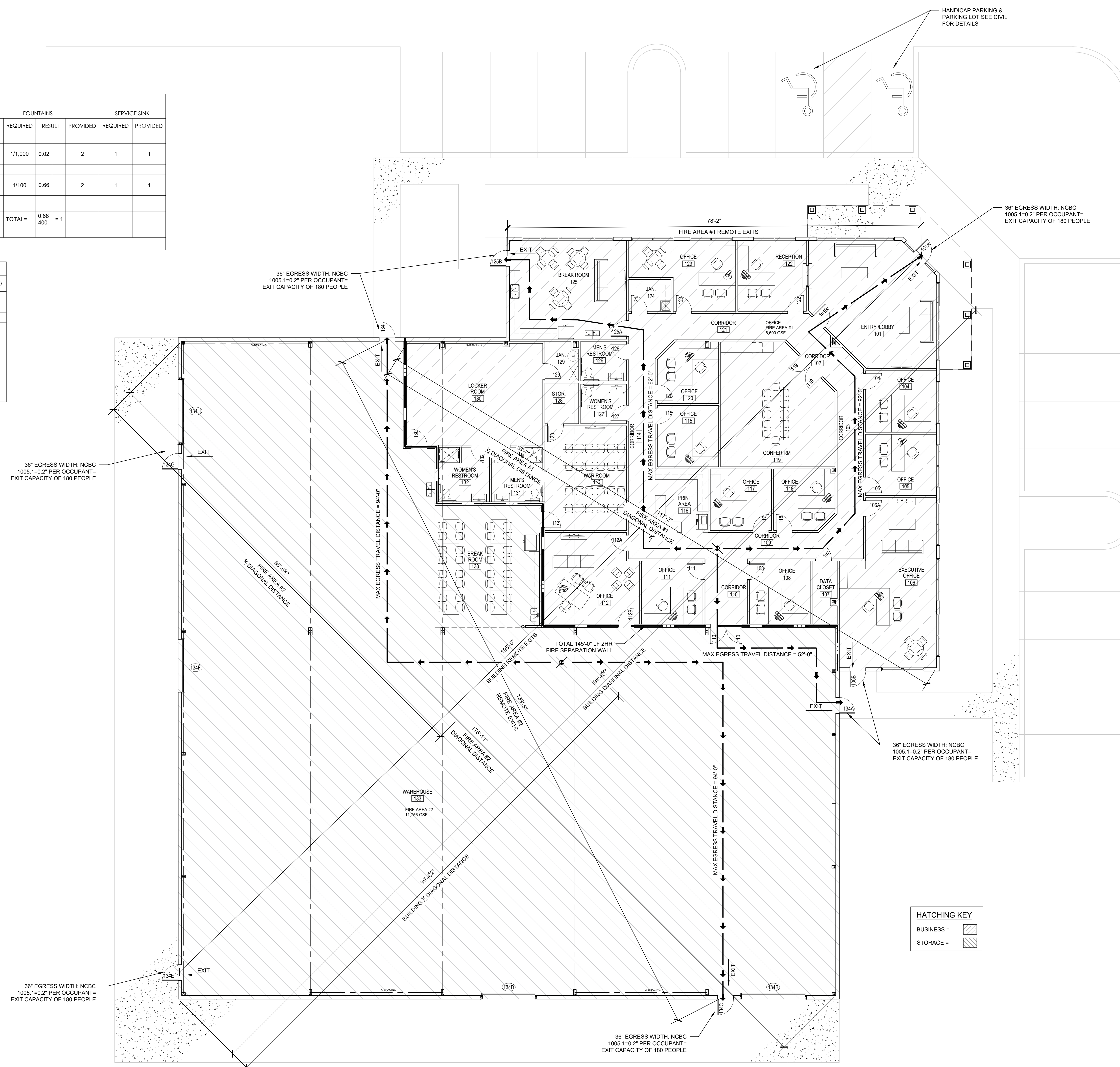


DRAWN BY: MNB	SHEET NUMBER
CHECKED BY: DRB	A0.2
DATE: 04.10.2023	
PROJECT #: 2235	OF: 11

OCCUPANCY	PEOPLE	TOILETS			LAVATORIES			FOUNTAINS			SERVICE SINK	
		REQUIRED	RESULT	PROVIDED	REQUIRED	RESULT	PROVIDED	REQUIRED	RESULT	PROVIDED	REQUIRED	PROVIDED
(S1) STORAGE												
MALE*	12	1/100	0.12		1/100	0.12						
FEMALE*	12	1/100	0.12		1/100	0.12				24	1/1,000	0.02
(B) BUSINESS												
MALE*	33	1/25	1.32		1/40	0.83				66	1/100	0.66
FEMALE*	33	1/25	1.32		1/40	0.83				2	1	1
TOTAL MALE	1.44	= 2	2 WC		0.95	= 1	2					
TOTAL FEMALE	1.44	= 2	2 WC		0.95	= 1	2			TOTAL=	0.68	= 1
TOTAL UNISEX												

BUILDING SUMMARY			
BUILDING AREAS	TOTAL GSF	PER	OCCUPANCY LOAD
OFFICE	6,600 GSF	1 PER 100 GSF	66
WAREHOUSE	11,756 GSF	1 PER 500 GSF	24
TOTAL	18,356 GSF		90

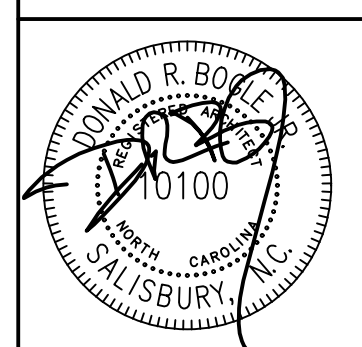
TOTAL BUILDING AREA: 18,356 GSF
TOTAL OCCUPANCY: 90
CONSTRUCTION: TYPE IIB, NON-SPRINKLERED
USE: STORAGE (S-1), BUSINESS (B)
*NOTE: OCCUPANCY LOADS GIVEN ARE CALCULATED FOR EGRESS.



HATCHING KEY	
BUSINESS =	[Hatched Pattern]
STORAGE =	[Hatched Pattern]

LIFE SAFETY PLAN

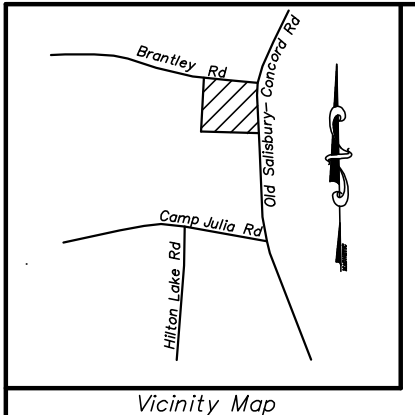
STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



DRAWN BY: MNB
CHECKED BY: DRB
DATE: 04.10.2023
PROJECT #: 2235

SHEET NUMBER
A0.3
OF: 11





NOTE:
 COMPLYING WITH CITY OF KANNAPOLIS PLAN REVIEW COMMENTS DOES NOT RELIEVE THE DEVELOPER OF THE RESPONSIBILITY OF COMPLYING WITH ANY AND ALL LOCAL, STATE, OR FEDERAL REGULATIONS CONCERNING THIS PLAN.

SHEET INDEX
 C100: EXISTING CONDITIONS
 C200: SITE DEVELOPMENT PLAN
 C201: CONSTRUCTION DETAILS
 C300: GRADING & DRAINAGE PLAN
 C400: EROSION CONTROL PLAN PHASE 1
 C401: EROSION CONTROL PLAN PHASE 2
 C402: EROSION CONTROL DETAILS & SPECIFICATIONS
 C403: NCG01 SPECIFICATIONS
 C500: LANDSCAPE PLAN

KING ENGINEERING OF CONCORD, INC.
 35 CHURCH STREET, S. SUITE 107
 CONCORD, NORTH CAROLINA 28025
 PHONE (828) 403 - 5586
 C-4909 kingengineeringnc.com



Stolz Services New Warehouse
 and Office Building
 2990 Brantley Rd
 Kannapolis, North Carolina

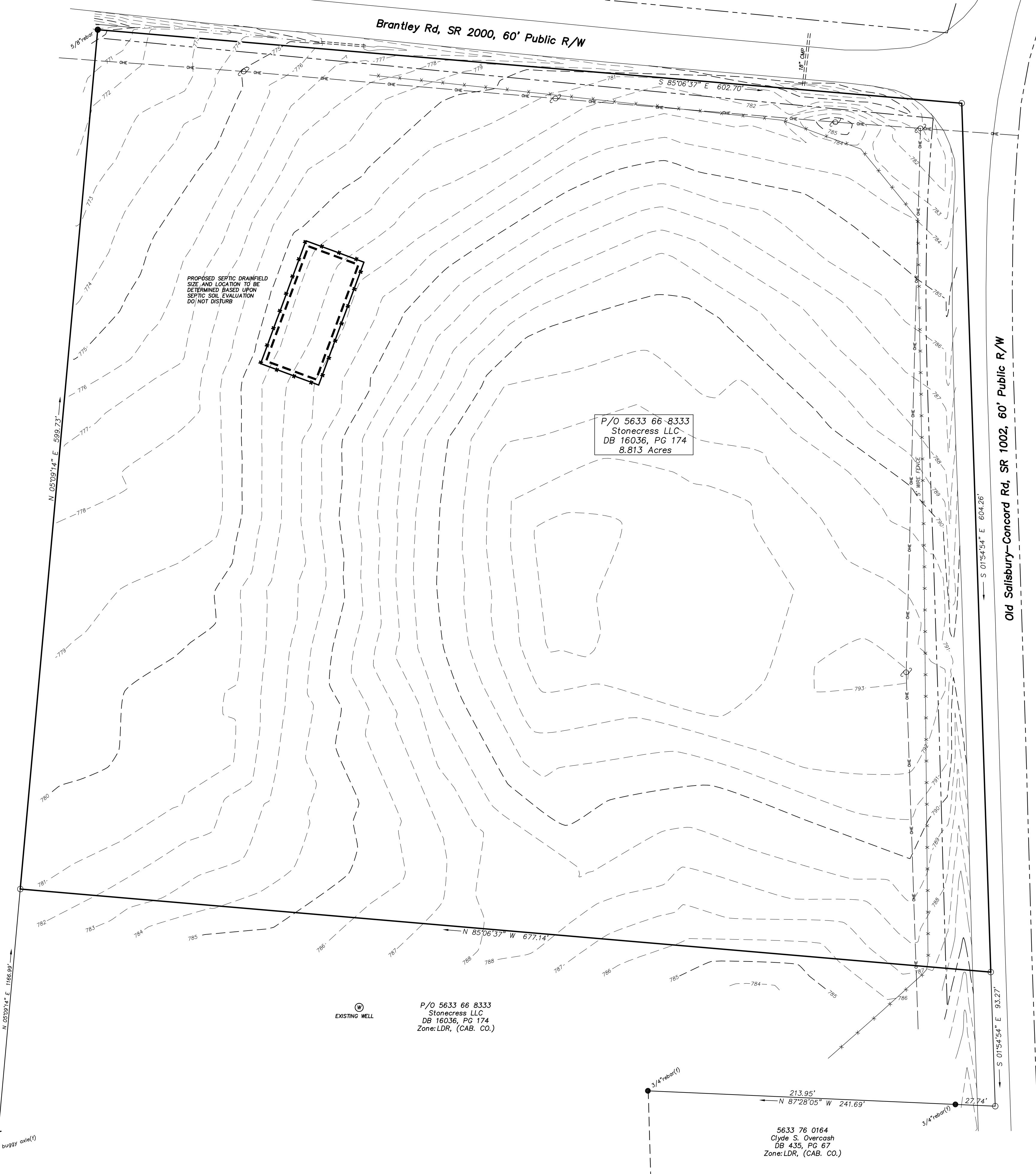
DRAWN BY: SLK
 DESIGN BY: SLK
 PROJ. MGR.: SLK

NO.	DATE	DESCRIPTION OF REVISIONS

PROJECT NUMBER:
 2022-100

SHEET NUMBER

C100

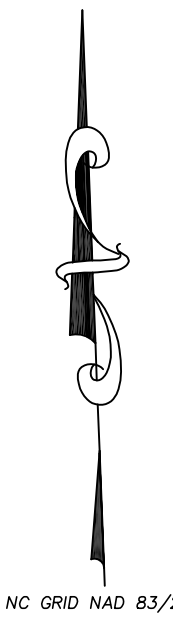


5633 66 2354
 Kay C. Roseman
 Life Estate
 Garold L. Roseman
 DB 1169, PG 50
 Zone: LDR, (CAB. CO.)

P/O 5633 66-8333
 Stonecress LLC
 DB 16036, PG 174
 8.813 Acres

P/O 5633 66 8333
 Stonecress LLC
 DB 16036, PG 174
 Zone: LDR, (CAB. CO.)

5633 76 0164
 Clyde S. Overcash
 DB 435, PG 67
 Zone: LDR, (CAB. CO.)



NC GRID NAD 83/2011

GENERAL NOTES

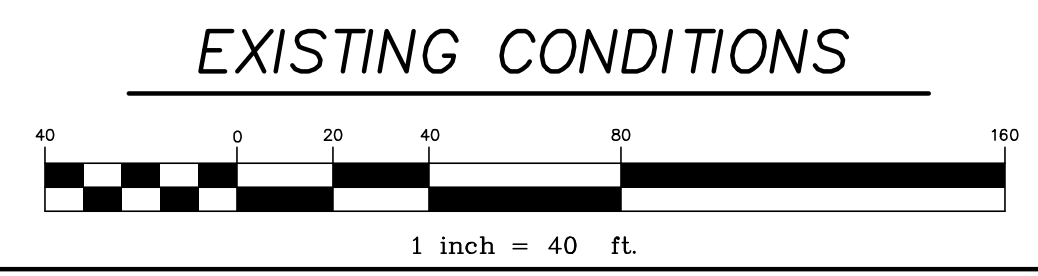
- OWNER: STONECRESS LLC
 710 MARBLE AVENUE
 KANNAPOLIS, NC 28083
 PHONE: (704) 808-2902
- CIVIL SITE WORK CONTACT
 SAM KING, JR., PE PLS
 401 POTEAT DRIVE
 MORGANTON, NC 28655
 PHONE: (828) 403-5586
 email: samkingjr@gmail.com
- SUBJECT PROPERTY LIES WITHIN FLOOD ZONE "X". (MINIMAL RISK)
 PER FEMA PANEL NUMBER 37105633 00K, EFFECTIVE DATE NOVEMBER 16, 2018.
- PROPERTY ZONED KANNAPOLIS "CC", (GENERAL COMMERCIAL), CONDITIONAL USE.
 SETBACKS - FRONT: 10', SIDE: 0', REAR: 0'
- SUBJECT PROPERTY IS SUBJECT TO THE DEVELOPMENT ORDINANCES OF CITY OF KANNAPOLIS.
- PROPERTY IS SUBJECT TO THE COLDWATER CREEK, (LAKE FISHED), WS-IV PROTECTED WATERSHED AREA.
- WATER & SANITARY SEWER SERVICE PROVIDED BY INDIVIDUAL WELL AND SEPTIC SYSTEMS.
- PROPERTY MAY BE SUBJECT TO ALL EASEMENTS, RIGHTS OF WAY, COVENANTS, RESTRICTIONS, CONDITIONS AND RESERVATIONS OF RECORD AFFECTING SUBJECT PROPERTY.
- THE CONTRACTOR SHALL OBTAIN ALL PERMIT APPROVALS PRIOR TO BEGINNING CONSTRUCTION.
- THE CONTRACTOR SHALL PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS AND ALL OTHER SURVEY POINTS. WHERE THE REMOVAL OF SUCH POINTS IS NECESSARY FOR THE ACCOMPLISHMENT OF THE WORK, THE CONTRACTOR IS TO INFORM THE ENGINEER IN WRITING, PRIOR TO THE DISTURBANCE OF ANY POINT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN GRANTED BY THE ENGINEER.
- ALL EXISTING TREES AND SHRUBS OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED DURING CONSTRUCTION, AND ARE NOT TO BE DAMAGED IN ANY MANNER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE TO EXISTING STREETS AND OTHER STRUCTURES WHICH IS CAUSED BY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BOULDERS, DEBRIS, EXCESS CONSTRUCTION MATERIALS, MATERIAL GENERATED FROM THE DEMOLITION OF EXISTING STRUCTURES AND FACILITIES, AND TRASH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. WE ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OF COMPLETENESS OF THE EXISTING UTILITIES SHOWN ON THE PLANS.
- ALL PAVEMENT CUTS SHALL BE REPAIRED WITH MATERIAL IN KIND TO THAT REMOVED.
- THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

 THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL DEVICES AND SAFETY MEASURES FOR CONSTRUCTION WORK WITHIN PUBLIC RIGHT-OF-WAYS AND OTHER AREAS WHICH REQUIRE ITS USE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS. DEVICES FOR STREETS AND HIGHWAYS.

 THE DUTY OF THE ENGINEER TO CONDUCT CONSTRUCTION REVIEW OF THE CONTRACTOR'S PERFORMANCE DOES NOT INCLUDE REVIEW OF THE CONTRACTOR'S SAFETY MEASURES IN ON, OR NEAR THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES AND PIPING WHICH MIGHT INTERFERE WITH DEMOLITION. ANY DAMAGES TO UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITY COMPANIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO, SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS NOT ACCEPTABLE TO THE OWNER AND ENGINEER.
- TREES TO BE DEMOLISHED SHALL BE CLEARED AND GRUBBED. NO BURNING SHALL BE ALLOWED ON OWNER'S PROPERTY.

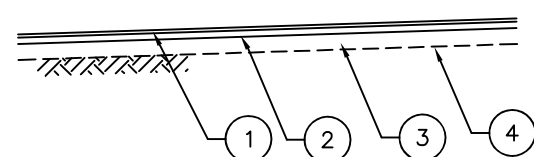
LEGEND

---	EXISTING CONTOUR
---	RIGHT OF WAY
---	PROPERTY LINE
---	WIRE FENCE
---	ADJOINING PROPERTY LINES
---	OVERHEAD UTILITY
---	UTILITY/LIGHT POLE



PAVEMENT CONSTRUCTION GENERAL NOTES

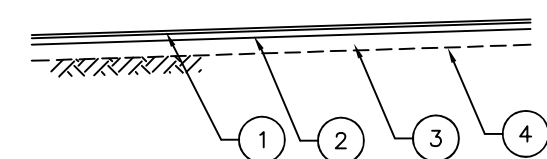
1. NCDOT 2006, SHALL MEAN NORTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2012 EDITION.
2. CRUSHED AGGREGATE BASE COURSE PLANT MIX SHALL BE PLACED IN ACCORDANCE WITH SECTION 520, NCDOT 2012. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 1010, 100% COMPACTION REQUIRED.
3. PORTLAND CEMENT PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 700, NCDOT 2012.
4. BITUMINOUS CONCRETE BINDER LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 610, 1-19.0C, NCDOT 2012.
5. BITUMINOUS CONCRETE BINDER WEARING SURFACE LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 610, 5-9.5C, NCDOT 2012.
6. THE SITE SHALL BE CLEARED AND ALL UNSUITABLE MATERIAL REMOVED PRIOR TO PLACING AND COMPACTING EMBANKMENTS.
7. ALL SUB GRADES SHALL BE CLEARED AND GRUBBED, SCARIFIED TO A DEPTH OF 8" AND THEN RECOMPACTED TO % OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE (ASTM - D6798).
8. IN ROCK EXCAVATION A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROCK PRIOR TO PLACEMENT OF BASE MATERIAL.
9. CONCRETE WHEEL STOPS ARE TO BE PRECAST 2500 PSI MIN. COMPRESSIVE STRENGTH CONCRETE, 6"H x 9"W x 84"L. WHEEL STOPS ARE TO BE SECURELY ATTACHED TO PAVEMENT WITH A MINIMUM OF 2-5/8" x 24" GALV. STEEL DOWELS EMBEDDED IN WHEEL STOPS AT 1/3 POINTS, AND FIRMLY BONDED TO WHEEL STOP AND PAVEMENT.
10. PAVEMENT MARKING PAINT SHALL BE ALKYD-RESIN TYPE, READY-MIXED, COMPLYING WITH FS TT-P-115, TYPE 1, AASHTO M-248, TYPE N, OR LATEX WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAVEMENT MARKING PAINT WITH MECHANICAL EQUIPMENT, PER MANUFACTURER'S RECOMMENDATIONS TO PRODUCE PAVEMENT MARKINGS OF DIMENSIONS INDICATED ON THE PLANS WITH UNIFORM STRAIGHT EDGES, AND A MINIMUM WET FILM THICKNESS OF 15 MILS, (0.4mm).



TOP 6" OF SUBGRADE IS TO BE COMPACTED TO 100% PROCTOR DENSITY. BELOW TOP 6" IS TO BE COMPACTED TO 95% PROCTOR DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE PAVEMENT NOTES FOR ADDITIONAL INFORMATION.

- 1 168 LBS./S.Y. (1") BITUMINOUS CONCRETE SURFACE COURSE, REF. 610, SF-9.5A, NCDOT 2012 OF SPECIFICATIONS.
- 2 168 LBS./S.Y. (2") BITUMINOUS CONCRETE SURFACE COURSE, REF. 610, 1-19.0B, NCDOT 2012 OF SPECIFICATIONS.
- 3 0.04 - 0.08 GAL./S.Y. TACK COAT AS REQ'D BY SPECS. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH SECTION 605 OF THE NCDOT 2012 SPECIFICATIONS.
- 4 6" LAYER OF CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL BE PLACED IN ACCORDANCE WITH SECTION 520, NCDOT 2012. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 1010, 100% COMPACTION REQ'D.

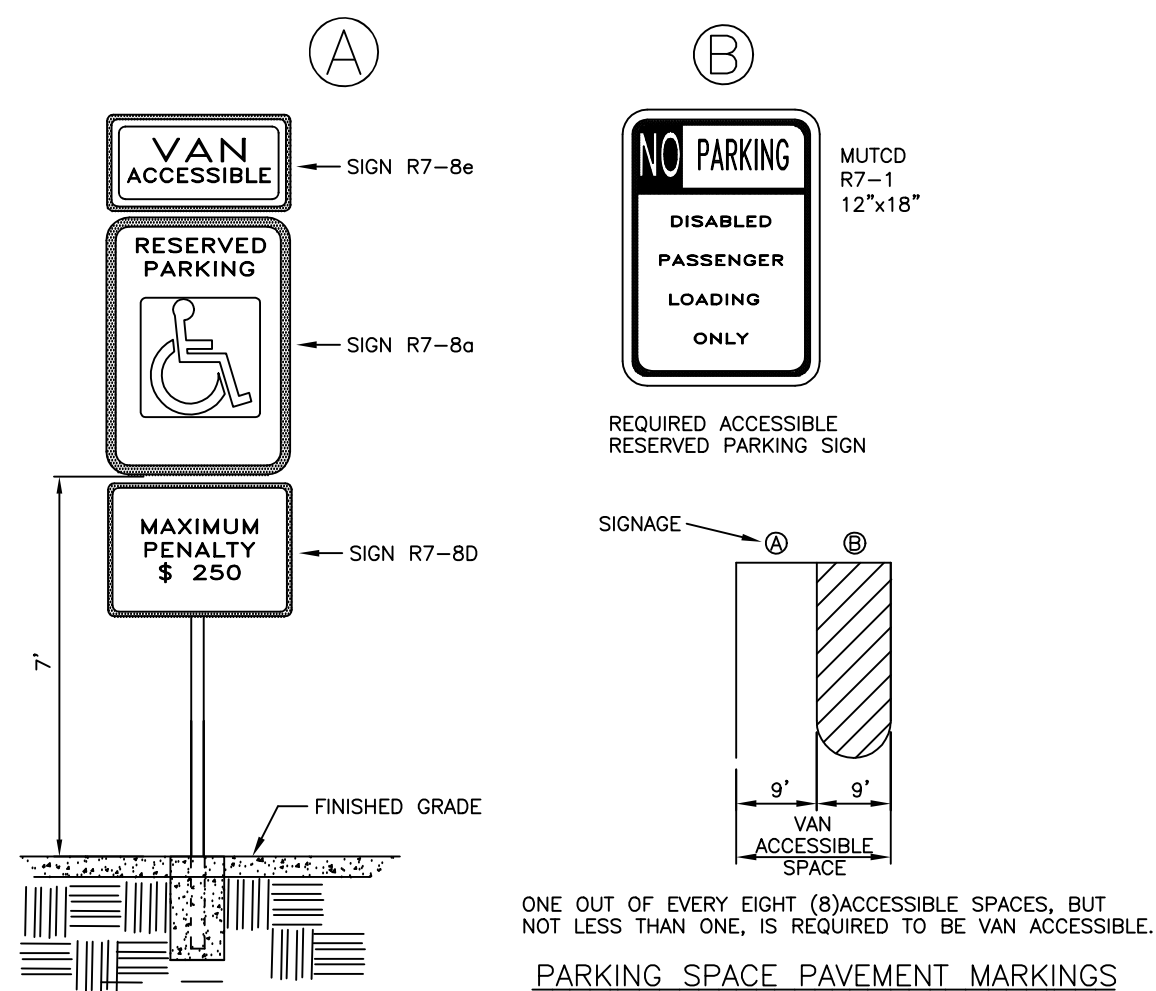
STANDARD PAVEMENT SECTION



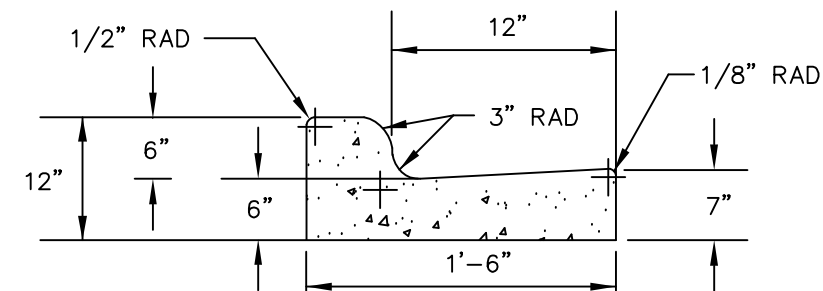
TOP 6" OF SUBGRADE IS TO BE COMPACTED TO 100% PROCTOR DENSITY. BELOW TOP 6" IS TO BE COMPACTED TO 95% PROCTOR DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE PAVEMENT NOTES FOR ADDITIONAL INFORMATION.

- 1 224 LBS./S.Y. (2") BITUMINOUS CONCRETE SURFACE COURSE, REF. 610, SF-9.5A, NCDOT 2012 OF SPECIFICATIONS.
- 2 224 LBS./S.Y. (2") BITUMINOUS CONCRETE SURFACE COURSE, REF. 610, 1-19.0B, NCDOT 2012 OF SPECIFICATIONS.
- 3 0.04 - 0.08 GAL./S.Y. TACK COAT AS REQ'D BY SPECS. ALL MATERIALS ARE TO BE IN ACCORDANCE WITH SECTION 605 OF THE NCDOT 2012 SPECIFICATIONS.
- 4 8" LAYER OF CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL BE PLACED IN ACCORDANCE WITH SECTION 520, NCDOT 2006. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 1010, 100% COMPACTION REQ'D.

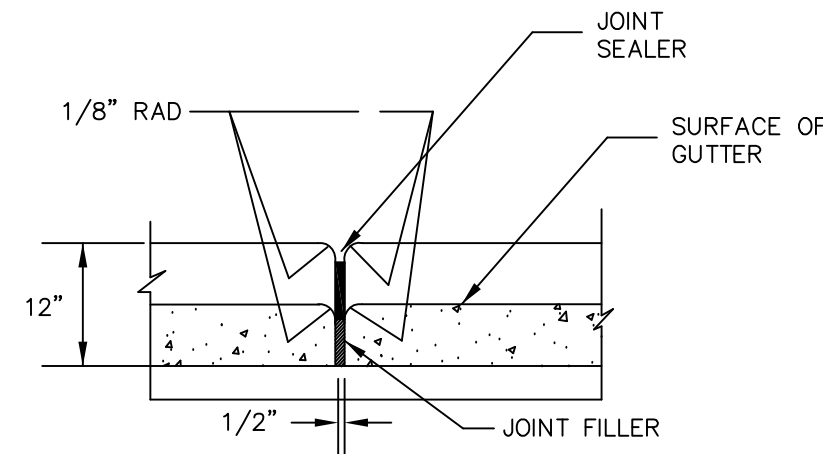
HEAVY DUTY PAVEMENT SECTION



ONE OUT OF EVERY EIGHT (B) ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, IS REQUIRED TO BE VAN ACCESSIBLE. PARKING SPACE PAVEMENT MARKINGS



CURB & GUTTER

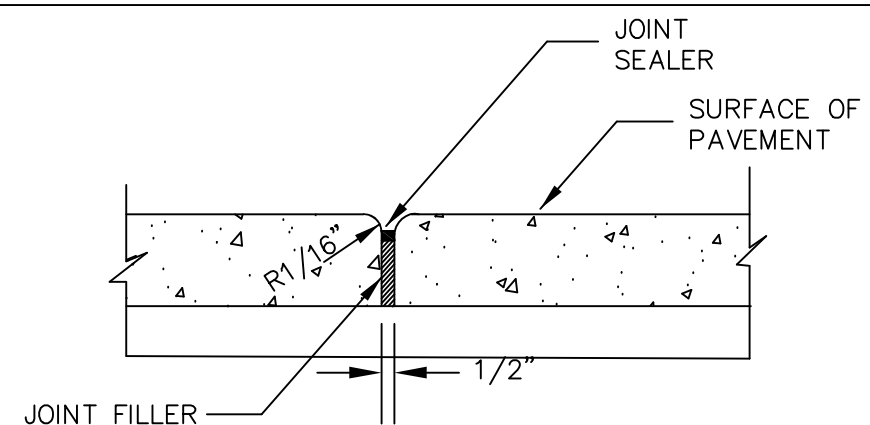


TRAVERSE EXPANSION JOINT IN CURB & GUTTER

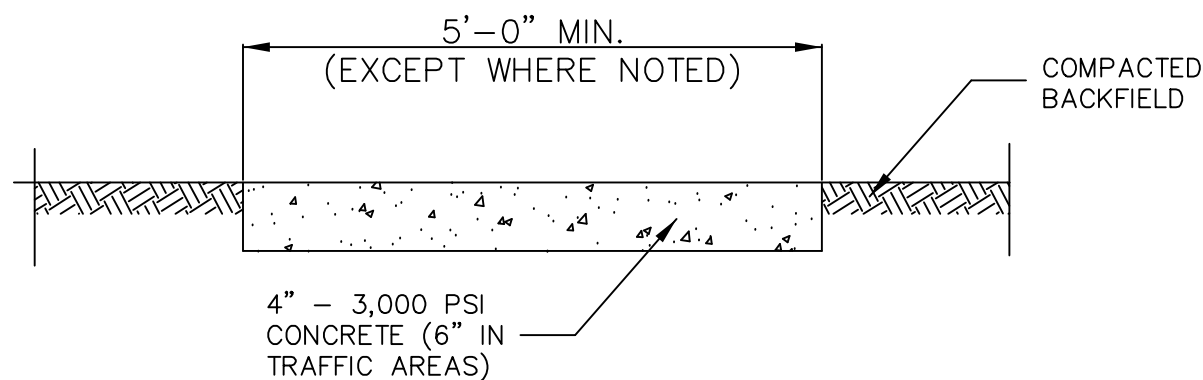
GENERAL NOTES FOR CURB AND GUTTER:

1. CONTRACTION JOINTS SHALL BE SPACED AT 10' INTERVALS, EXCEPT THAT A 15' SPACING MAY BE USED WHEN A MACHINE IS USED OR WHEN SATISFACTORY SUPPORT FOR THE FACE FORM CAN BE OBTAINED WITHOUT THE USE OF TEMPLATES AT 10' INTERVALS. JOINT SPACING MAY BE ALTERED BY THE ENGINEER TO PREVENT UNCONTROLLED CRACKING.
2. CONTRACTION JOINTS MAY BE INSTALLED BY THE USE OF TEMPLATES FORMED BY OTHER APPROVED METHODS, WHERE SUCH JOINTS ARE NOT FORMED BY TEMPLATES, A MINIMUM DEPTH OF 1-1/2" SHALL BE OBTAINED.
3. ALL CONTRACTION JOINTS SHALL BE FILLED WITH JOINT SEALER.
4. EXPANSION JOINTS SHALL BE SPACED AT 90' INTERVALS AND ADJACENT TO ALL RIGID OBJECTS.

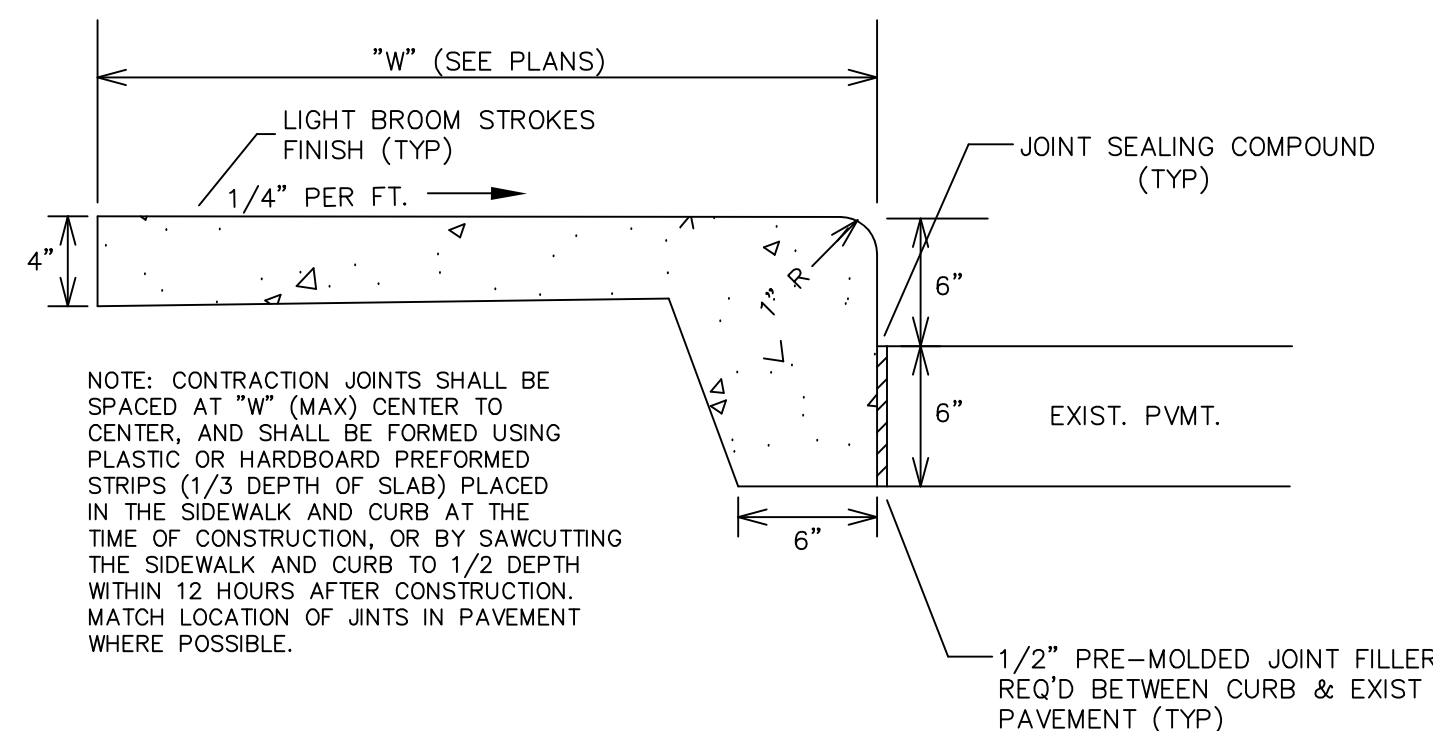
CURB & GUTTER DETAILS



TRAVERSE EXPANSION JOINT IN SIDEWALK (ONE REQUIRED EVERY 50')



SIDEWALK DETAIL

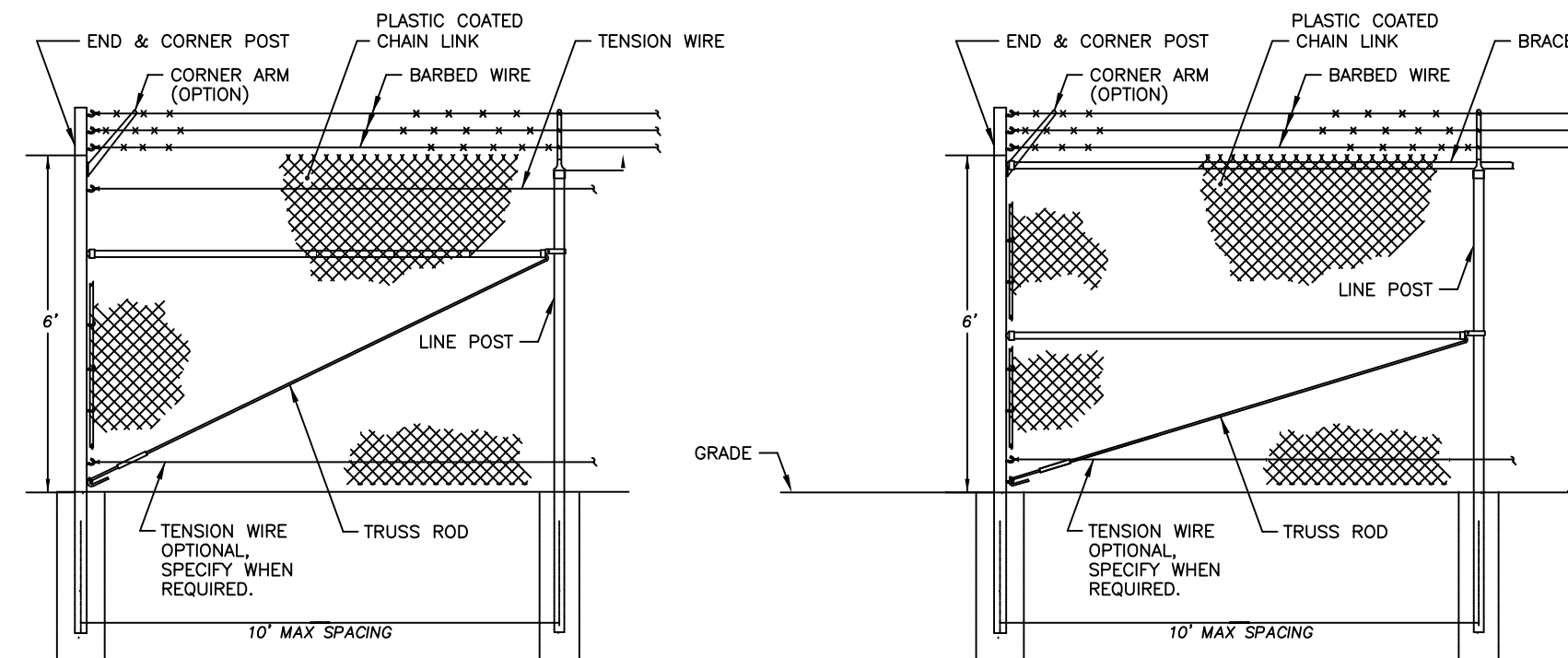
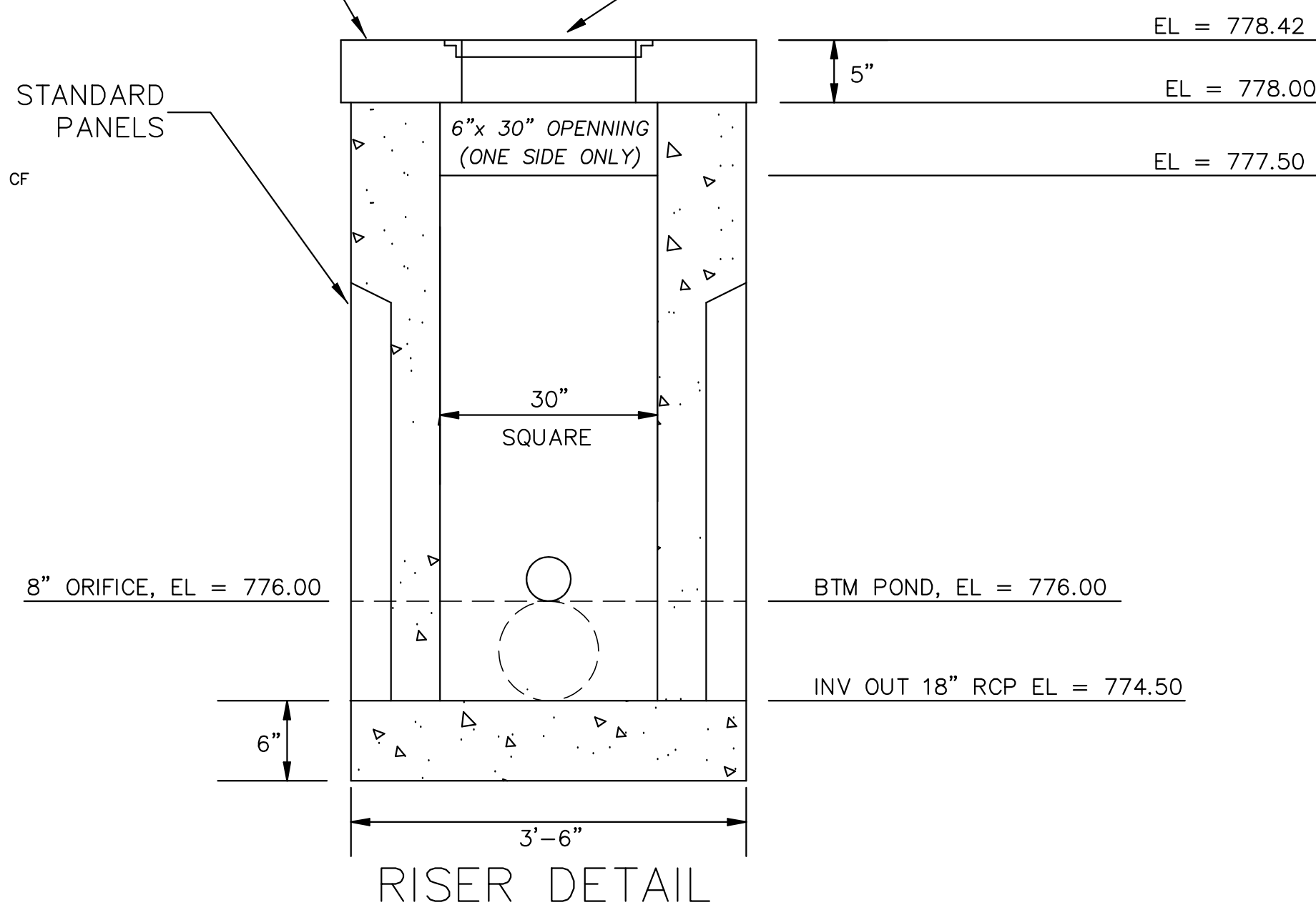


NOTE: CONTRACTION JOINTS SHALL BE SPACED AT "W" (MAX) CENTER TO CENTER, AND SHALL BE FORMED USING PLASTIC OR HARDBOARD PREFORMED STRIPS (1/3 DEPTH OF SLAB) PLACED IN THE SIDEWALK AND CURB AT THE TIME OF CONSTRUCTION, OR BY SAWCUTTING THE SIDEWALK AND CURB TO 1/2 DEPTH WITHIN 12 HOURS AFTER CONSTRUCTION. MATCH LOCATION OF JNTS IN PAVEMENT WHERE POSSIBLE.

TURN DOWN SIDEWALK DETAIL NTS

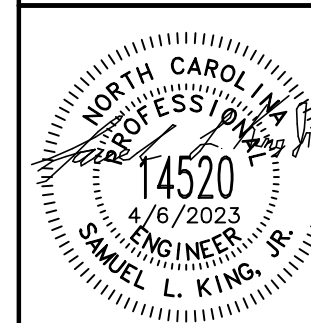


ANTI-FLOATATION FOR RISER
WEIGHT OF CONCRETE - 150 LBS/CF
CONCRETE BASE: 3.5' x 3.5' x 0.5' = 6.1 CF
CONCRETE WALLS: 4 x 3.5' x 3.92' x 0.5' = 27.4 CF
VOLUME OF HOLES:
18" DIA = 0.9 CF
6x 30" opening = 0.6 CF
8" DIA = 0.5 CF
TOTAL = 2.0 CF
RISER VOLUME = 6.1 + 27.4 - 2.0 = 31.5 CF
WEIGHT OF RISER
31.5 CF x 150 LBS/CF = 4,725 LBS
DISPLACES WEIGHT OF WATER:
2.5' x 2.5' x 3.92' = 24.5 CF
24.5 CF x 62.4 LBS/CF = 1,528 LBS
SAFETY FACTOR = 4,725/1,528 = 3.1 OK



PERIMETER FENCE DETAIL

KING ENGINEERING of CONCORD, INC.
35 CHURCH STREET, S. SUITE 107
CONCORD, NORTH CAROLINA 28025
PHONE (828) 403 - 5586
C-4909 kingengineer.com



Stolz Services New Warehouse and Office Building
2990 Brantley Rd
Kannapolis, North Carolina

DRAWN BY: SLK
DESIGN BY: SLK
PROJ. MGR.: SLK

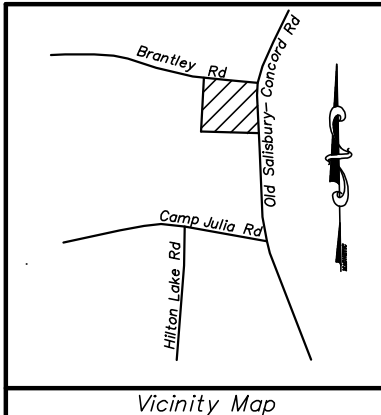
NO.	DATE	DESCRIPTION OF REVISIONS

PROJECT NUMBER:
2022-100

SHEET NUMBER

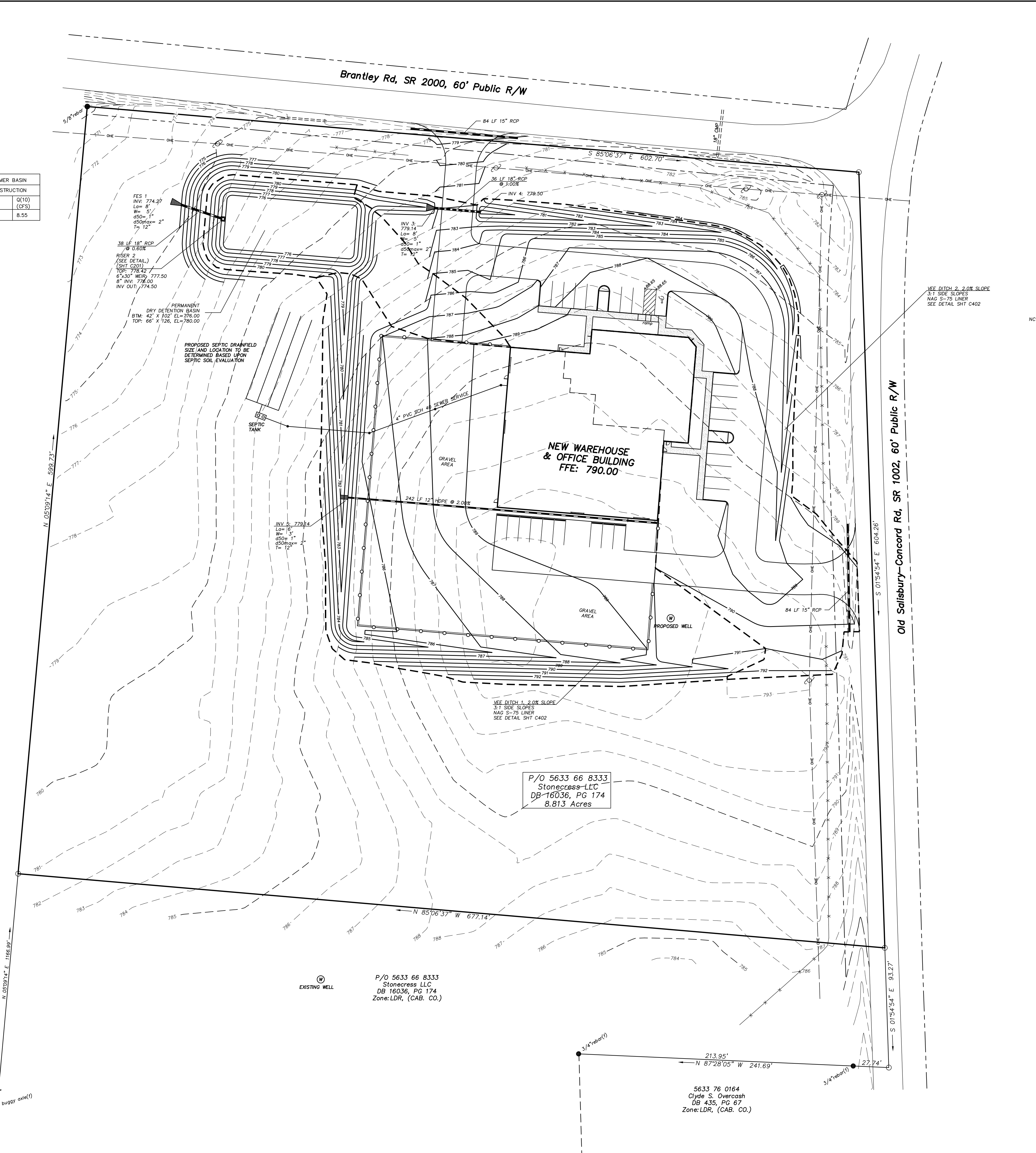
C201

CONSTRUCTION DETAILS

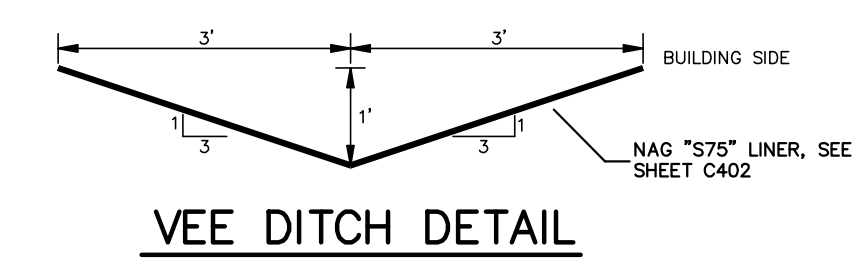
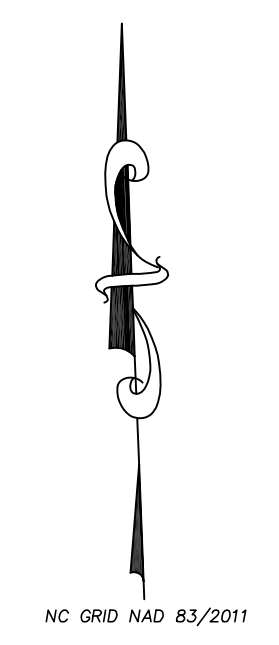


STORM DRAINAGE RUNOFF SUMMARY @ SKIMMER BASIN				
PRE-CONSTRUCTION		POST-CONSTRUCTION		
AREA (ACRES)	CN	Q(10) (CFS)	AREA (ACRES)	Q(10) (CFS)
3.4	77	11.50	3.4	86
				8.55

5633 66 2354
Koy C. Roseman
Life Estate
Garold L. Roseman
DB 1169, PG 50
Zone: LDR, (CAB. CO.)



NOTE:
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STORM WATER DETENTION SUMMARY

RISER 2
EXISTING DRAINAGE AREA = 3.4 AC, CN = 77, SOIL GROUP "C"
POST DEVELOP DRAINAGE AREA = 3.4 AC, CN = 86

Q-1 year Pre-Development = 4.07 cfs
Q-1 year Post-Development = 9.56 cfs
Routing: Qout = 1.90 cfs, Stage = 777.53'

Q-2 year Pre-Development = 5.95 cfs
Q-2 year Post-Development = 12.61 cfs
Routing: Qout = 4.31 cfs, Stage = 777.91'

Q-10 year Pre-Development = 11.50 cfs
Q-10 year Post-Development = 20.97 cfs
Routing: Qout = 8.55 cfs, Stage = 778.73'

Q-25 year Pre-Development = 14.96 cfs
Q-25 year Post-Development = 25.93 cfs
Routing: Qout = 12.41 cfs, Stage = 779.17'

Q-50 year Pre-Development = 17.81 cfs
Q-50 year Post-Development = 29.92 cfs
Routing: Qout = 18.19 cfs, Stage = 779.39'

Q-100 year Pre-Development = 20.72 cfs
Q-100 year Post-Development = 33.96 cfs
Routing: Qout = 23.50 cfs, Stage = 779.56'

3:1 CUT & FILL SLOPES
STABILIZATION TIME FRAME
TO BE 14 DAYS PER NPDES
GENERAL STORMWATER PERMIT
GROUND STABILIZATION TABLE

GRADING NOTES

- IF CONTRACTOR DOES NOT ACCEPT EXISTING TOPOGRAPHY AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, THE CONTRACTOR SHALL MAKE A TOPOGRAPHIC SURVEY AT THEIR OWN EXPENSE AND SUBMIT IT TO THE OWNER FOR REVIEW.
- CONTRACTOR IS RESPONSIBLE FOR NOTIFYING ALL UTILITIES BEFORE CONSTRUCTION AND VERIFYING LOCATION OF ALL UTILITIES SHOWN OR NOT SHOWN.
- CONTRACTOR SHALL PROVIDE DRAINAGE AWAY FROM THE BUILDINGS.
- PRECAST STRUCTURES MAY BE USED AT THE CONTRACTOR'S OPTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE RELOCATION OF ALL UTILITIES ALONG THE RIGHT OF WAY AND ON THE SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO SIGNAL POLES, SIGNAL CONTROLS, DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
- THE EARTHWORK FOR ALL BUILDING FOUNDATIONS AND SLABS SHALL BE IN ACCORDANCE WITH ARCHITECTURAL PLANS AND SPECIFICATIONS.
- ALL SLOPES AND DISTURBED AREAS NOT COVERED BY BUILDING OR PAVEMENT SHALL BE GRADED SMOOTH AND STABILIZED.
- SPOIL FROM FOOTINGS IS THE SITE CONTRACTOR'S RESPONSIBILITY. CONTRACTOR IS TO USE THE SOIL ON SITE OR REMOVE IT FROM THE SITE.
- EARTHWORK SHALL BE ON A UNCLASSIFIED BASIS.
- ANY FILL USED TO INCREASE THE ELEVATION OF THE FLOOR SLAB OR ANY FILL TO BE USED AS BACKFILL, SHALL BE CLEAN, GRANULAR MATERIAL. PRIOR TO THE USE OF ANY GRANULAR FILL, GRADATION ANALYSIS SHALL BE PERFORMED ON REPRESENTATIVE SAMPLES OF THE FILL MATERIAL TO DETERMINE WHETHER THE MATERIAL IS SUITABLE AS FILL. COMPACTED FILL SHALL BE PLACED IN LAYERS OF NOT MORE THAN EIGHT INCHES. UNLESS DIRECTED OTHERWISE BY THE SOIL ENGINEER, IN THICKNESS, AT MOISTURE CONTENTS WITHIN TWO PERCENT OPTIMUM, AND COMPACTED TO MAXIMUM DENSITY OF 98 PERCENT OF ITS STANDARD PROCTOR (ASTM D 698) MAX DRY DENSITY.

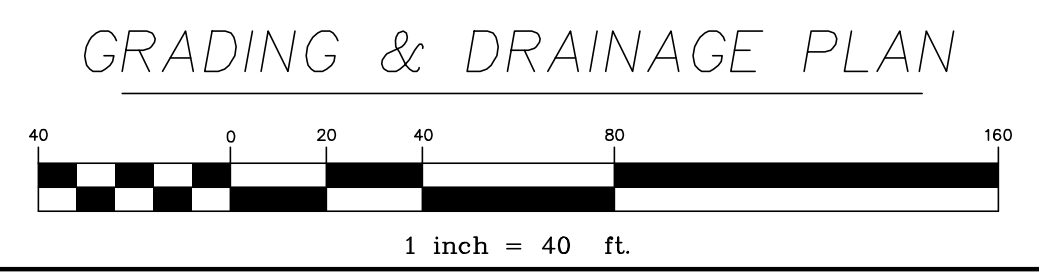
LEGEND

- EXISTING CONTOUR
- RIGHT OF WAY
- N90°00'00"E --- PROPERTY LINE
- WIRE FENCE
- ADJOINING PROPERTY LINES
- OVERHEAD UTILITY
- UTILITY/LIGHT POLE

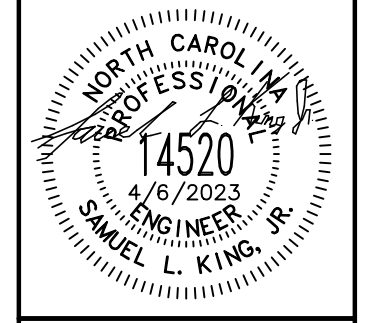
P/O 5633 66 8333
Stonecess-LLC
DB 16036, PG 174
8.813 Acres

P/O 5633 66 8333
Stonecess LLC
DB 16036, PG 174
Zone: LDR, (CAB. CO.)

5633 76 0164
Clyde S. Overcash
DB 435, PG 67
Zone: LDR, (CAB. CO.)



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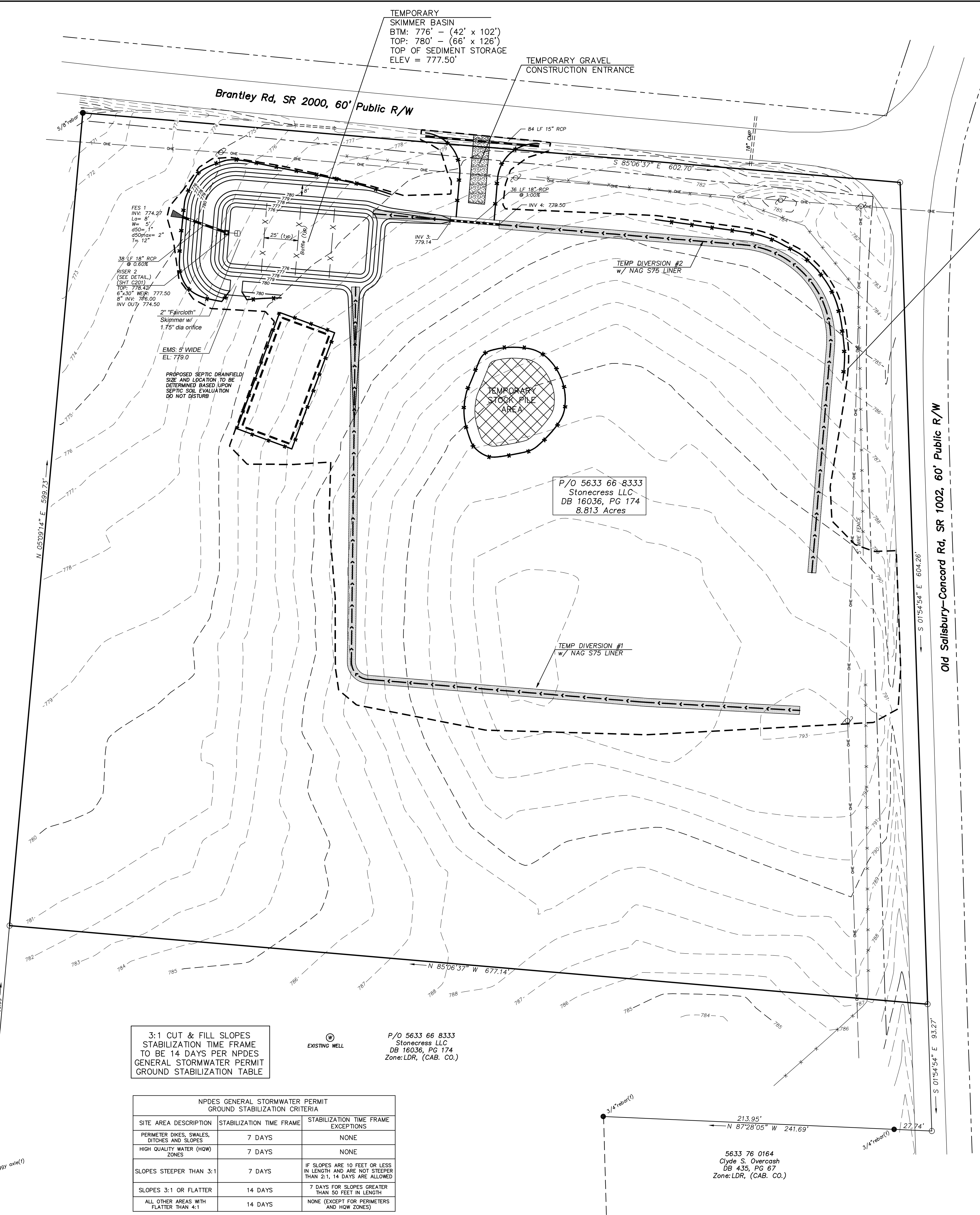
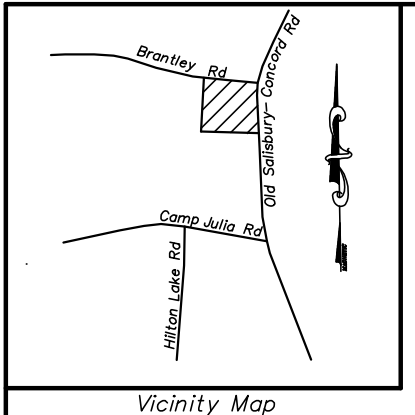
Stolz Services New Warehouse
and Office Building
2990 Brantley Rd
Kannapolis, North Carolina

DRAWN BY:	SLK
DESIGN BY:	SLK
PROJ. MGR.:	SLK

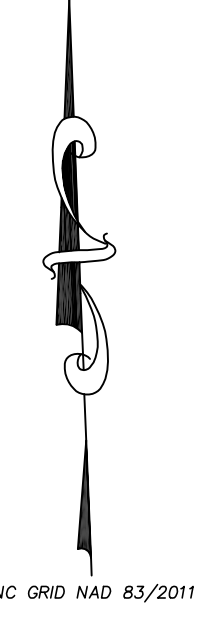
NO.	DATE	DESCRIPTION OF REVISIONS

PROJECT NUMBER:
2022-100

SHEET NUMBER
C300



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GENERAL NOTES

- PROJECT IS LOCATED WITHIN THE YADKIN PEE DEE RIVER BASIN.
- PROJECT IS NOT LOCATED WITHIN THE 100 YER FLOOD PLAIN AREA PER FEMA PANEL 37105633 OK; EFFECTIVE DATE: NOVEMBER 16, 2018.
- SUBJECT PROPERTY WITHIN COLDWATER CREEK, (LAKE FISHER), WS-IV PROTECTED AREA.
- RECEIVING WATER COURSE: COLD WATER CREEK, CLASS "C", INDEX 13-17-9-4-(1,5).
- LATITUDE: 35.4439°
- LONGITUDE: -80.6424°
- SOIL TYPES: "EnB" Enon, sandy loam & "MeB" Mecklenburg loam
- LAND DISTURBANCE: 4.1 ACRES
- CONTACT CONCERNING EROSION CONTROL ISSUES ON SITE: SAM KING, JR., PE 828-403-5586, samkingjr@gmail.com.
- A RAIN GAUGE MUST BE ON SITE THAT IS READ AND RECORDED DAILY. THE EROSION AND SEDIMENT MEASURES ARE TO BE REGULARLY INSPECTED BY THE CONTRACTOR OR A QUALIFIED REPRESENTATIVE TO THE OWNER, AFTER EACH 0.25" RAIN (WITHIN 24 HRS) OR MONTHLY.
- ANY BORROW OR WASTE SITES USED FOR THIS PROJECT MUST BE APPROVED BY THE NC DEPARTMENT OF ENVIRONMENTAL QUALITY, (NCDEQ).
- NO CONCRETE WASHOUT PROPOSED FOR THIS PROJECT.

PROJECT NARRATIVE

THE SEDIMENTATION AND EROSION CONTROL PLAN IS FOR THE PREVENTION OF ON-SITE EROSION AND OFF-SITE SEDIMENTATION FOR THE CLEARING AND GRADING OF A NEW WAREHOUSE AND OFFICE SPACE BUILDING AND ASSOCIATED PARKING AND ACCESS AREAS. THE SITE IS LOCATED AT 2990 BRANTLEY ROAD, KANNAPOLIS, CABARRUS COUNTY, NORTH CAROLINA. APPROXIMATELY 4.1 ACRES WILL BE DISTURBED DURING CONSTRUCTION. EROSION AND SEDIMENT WILL BE CONTAINED WITHIN THE SKIMMER BASIN AS SHOWN ON THE PLAN. THE SKIMMER BASIN WILL REMAIN IN PLACE ONCE THE SITE IS STABILIZED, TO BE USED AS A DRY DETENTION POND. ADDITIONAL EROSION CONTROL MEASURES INCLUDE TEMPORARY GRAVEL CONSTRUCTION ENTRANCE, SILT FENCE, AND TEMPORARY DIVERSIONS.

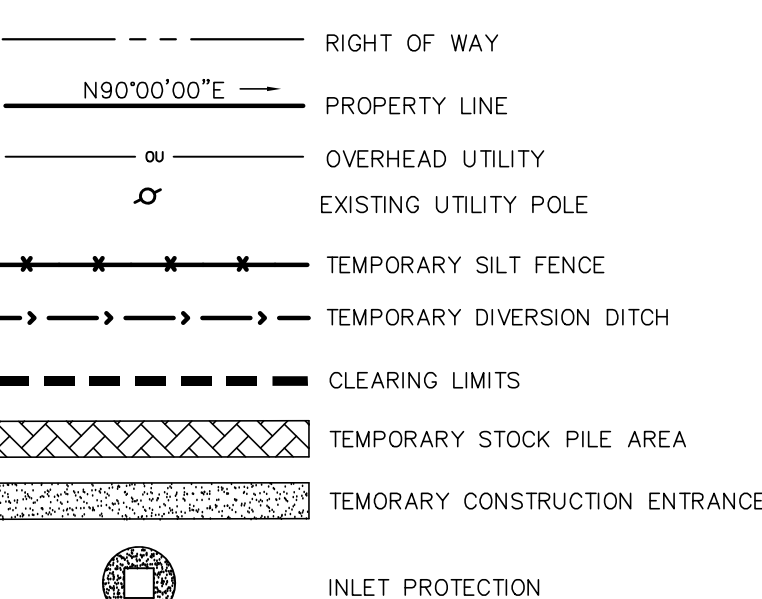
CONSTRUCTION SEQUENCE - PHASE 1

- OBTAIN ALL NECESSARY PERMITS.
- CONDUCT PRE-CONSTRUCTION CONFERENCE PRIOR TO ANY LAND DISTURBANCE ACTIVITY. NOTIFY INSPECTOR AT NCDEQ MOORESVILLE REGIONAL OFFICE.
- ESTABLISH CLEARING LIMITS.
- INSTALL TEMPORARY GRAVEL CONSTRUCTION ENTRANCE WITH 15" RCP CLASS IV CULVERT.
- CONSTRUCT TEMPORARY SKIMMER BASIN, PIPE SYSTEM INV 1 - RISER 2, OUTLET PROTECTION, SKIMMER, BAFFLES, SILT FENCE, PLACE HARDWARE CLOTH & GRAVEL INLET PROTECTION AROUND RISER 2. STABILIZE DOWNSTREAM SLOPE OF SKIMMER BASIN AND INSTALL SILT FENCE AS SHOWN.
- INSTALL TEMPORARY DIVERSIONS, PIPE SYSTEM INV 3 - INV 4, SILT FENCE AND TEMPORARY LINER. MAINTAIN POSITIVE DRAINAGE.
- BEGIN CLEARING, GRUBBING AND GRADING OF THE SITE.

MAINTENANCE PLAN

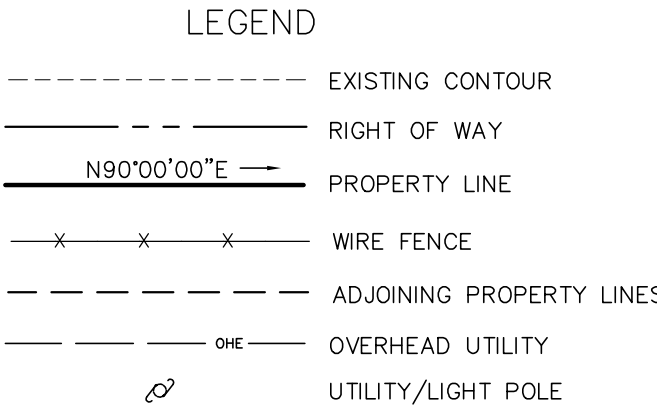
- INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT.
- REMOVE ACCUMULATED SEDIMENT FROM SKIMMER BASIN WHEN HALF FULL AND REPAIR OR REPLACE ANY STONE THAT HAS BEEN DISPLACED OR CONTAMINATED.
- AFTER VEGETATION HAS BEEN ESTABLISHED, CHECK FOR ANY BARE SPOTS AND RESEED.
- SELF INSPECTION REPORTS.
 - A "SELF-INSPECTION REPORT FOR LAND DISTURBING ACTIVITY AS REQUIRED BY NCGS 113A-54.1" IS AVAILABLE FOR USE AT: <http://www.dir.enr.state.nc.us/pages/Sediment%20-%20Self-Inspection%2020100910/New%20Self%20Inspection%20FAQ.pdf> IT CAN BE COMPLETED BY HAND OR COMPLETED IN AN EXCEL SPREADSHEET.
 - AN ALTERNATE IS TO MAKE NOTATIONS ON THE COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN THAT IS KEPT ON THE PROJECT SITE. RULE 15A NCAC 04B.0131 STATES THAT "... DOCUMENTATION SHALL BE ACCOMPLISHED BY INITIALING AND DATING EACH MEASURE OR PRACTICE SHOWN ON A COPY OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN BY COMPLETING, DATING AND SIGNING AN INSPECTION REPORT THAT LISTS EACH MEASURE, PRACTICE OR DEVICE SHOWN ON THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN."
 - REPORTS ARE TO BE COMPLETED AFTER EACH PHASE OF THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN IS COMPLETE AS FOLLOWS:
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 - CLEARING AND GRUBBING OF EXISTING GROUND COVER.
 - COMPLETION OF ANY PHASE OF GRADING OF SLOPES OR FILLS.
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 - COMPLETION OF CONSTRUCTION OR DEVELOPMENT.
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LEGEND



3:1 CUT & FILL SLOPES
 STABILIZATION TIME FRAME
 TO BE 14 DAYS PER NPDES
 GENERAL STORMWATER PERMIT
 GROUND STABILIZATION TABLE

NPDES GENERAL STORMWATER PERMIT GROUND STABILIZATION CRITERIA		
SITE AREA DESCRIPTION	STABILIZATION TIME FRAME	STABILIZATION TIME FRAME EXCEPTIONS
PERMETER DIKES, SWALES, DITCHES AND SLOPES	7 DAYS	NONE
HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10 FEET OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERMETERS AND HQW ZONES)



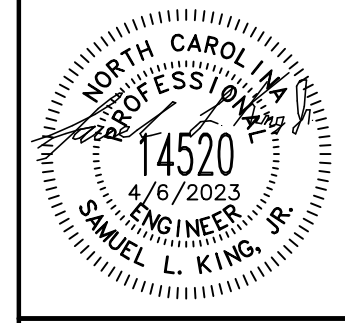
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 Kay C. Roseman
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 Zone:LDR, (CAB. CO.)

P/O 5633 66-8333
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 8.813 Acres

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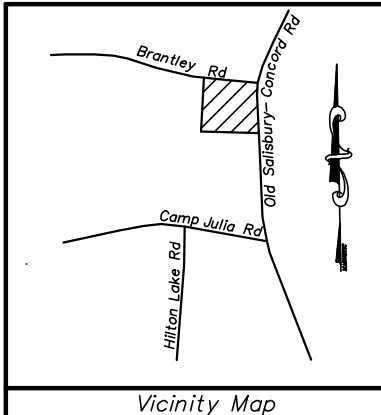
DRAWN BY: SLK
 DESIGN BY: SLK
 PROJ. MGR.: SLK

NO.	DATE	DESCRIPTION OF REVISIONS

PROJECT NUMBER:
 2022-100

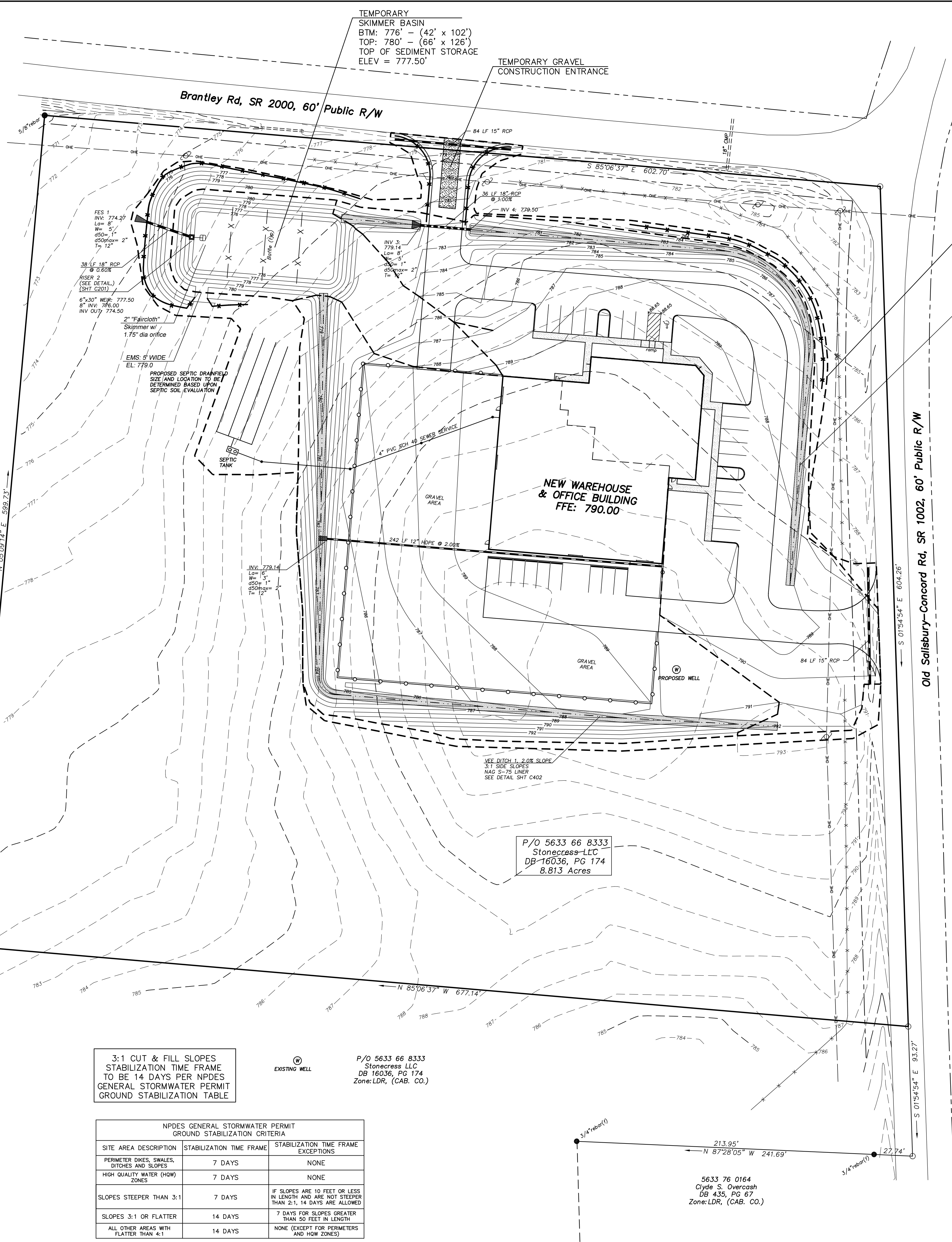
SHEET NUMBER
C400

EROSION CONTROL PLAN - PHASE 1



STORM DRAINAGE RUNOFF SUMMARY @ SKIMMER BASIN					
PRE-CONSTRUCTION			POST-CONSTRUCTION		
AREA (ACRES)	CN	Q(10) (CFS)	AREA (ACRES)	CN	Q(10) (CFS)
3.4	77	11.50	3.4	86	8.55

5633 66 2354
 Kay C. Roseman
 Life Estate
 Gerald L. Roseman
 DB 1169, PG 50
 Zone: LDR, (CAB. CO.)



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PROJECT NARRATIVE

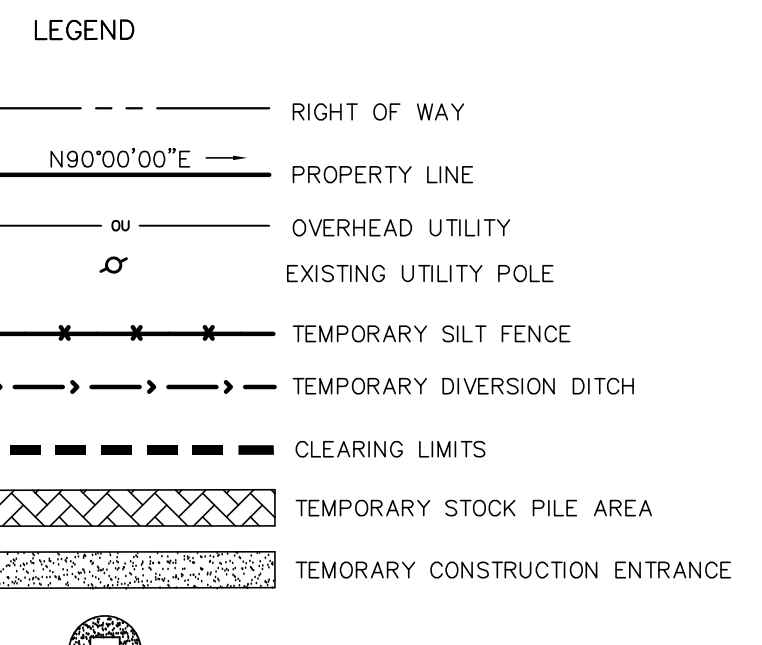
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- CONSTRUCTION SEQUENCE - PHASE 2**
- MAINTAIN EXISTING EROSION CONTROL MEASURES.
 - CONTINUE GRADING BUILDING PAD AND PARKING AREA.
 - ONCE PROPOSED GRADES ARE ACHIEVED, SEED ALL AREAS NOT TO BE BUILT UPON. ANY AREAS THAT HAVE BEEN GRADED/EXPOSED MORE THAN 7 DAYS MUST BE TEMPORARILY STABILIZED WITH SEED & STRAW, MULCH OR ANOTHER APPROVED STABILIZATION PRACTICE PER NCDEQ REQUIREMENTS.
 - ONCE SITE IS STABILIZED, NOTIFY INSPECTOR FROM NCDEQ MOORESVILLE REGIONAL OFFICE FOR INSPECTION.
 - UPON APPROVAL FROM NCDEQ, REMOVE SKIMMER AND CONSTRUCT DRY DETENTION BASIN.
 - REMOVE ANY REMAINING EROSION CONTROL MEASURES.

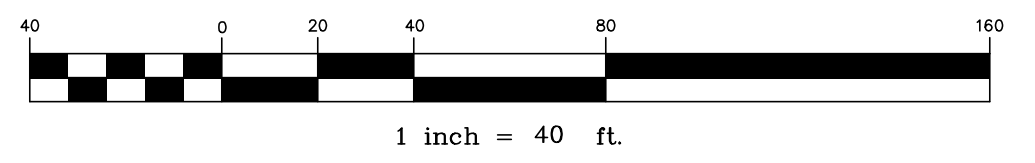
- MAINTENANCE PLAN**
- INSPECT ALL EROSION CONTROL DEVICES WEEKLY AND AFTER EACH RUN-OFF PRODUCING RAINFALL EVENT.
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3:1 CUT & FILL SLOPES
 STABILIZATION TIME FRAME
 TO BE 14 DAYS PER NPDES
 GENERAL STORMWATER PERMIT
 GROUND STABILIZATION TABLE

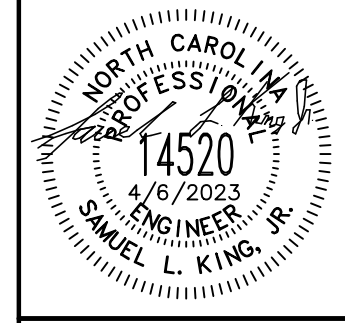
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HIGH QUALITY WATER (HQW) ZONES	7 DAYS	NONE
SLOPES STEEPER THAN 3:1	7 DAYS	IF SLOPES ARE 10 FEET OR LESS IN LENGTH AND ARE NOT STEEPER THAN 2:1, 14 DAYS ARE ALLOWED
SLOPES 3:1 OR FLATTER	14 DAYS	7 DAYS FOR SLOPES GREATER THAN 50 FEET IN LENGTH
ALL OTHER AREAS WITH FLATTER THAN 4:1	14 DAYS	NONE (EXCEPT FOR PERIMETERS AND HQW ZONES)



EROSION CONTROL PLAN - PHASE 2



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 PHONE (828) 403 - 5586
 C-4909 kingengineering.com



Stolz Services New Warehouse
 and Office Building
 2990 Brantley Rd
 Kannapolis, North Carolina

DRAWN BY: SLK
 DESIGN BY: SLK
 PROJ. MGR.: SLK

NO.	DATE	DESCRIPTION OF REVISIONS

PROJECT NUMBER:
 2022-100

SHEET NUMBER
C401

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
<ul style="list-style-type: none"> Temporary grass seed covered with straw or other mulches and tackifiers Hydroseeding Roller erosion control products with or without temporary grass seed Appropriately applied straw or other mulch Plastic sheeting 	<ul style="list-style-type: none"> Permanent grass seed covered with straw or other mulches and tackifiers Geotextile fabrics such as permanent soil reinforcement matting Hydroseeding Shrubs or other permanent plantings covered with mulch Uniform and evenly distributed ground cover sufficient to restrain erosion Structural methods such as concrete, asphalt or retaining walls Roller erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g. dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

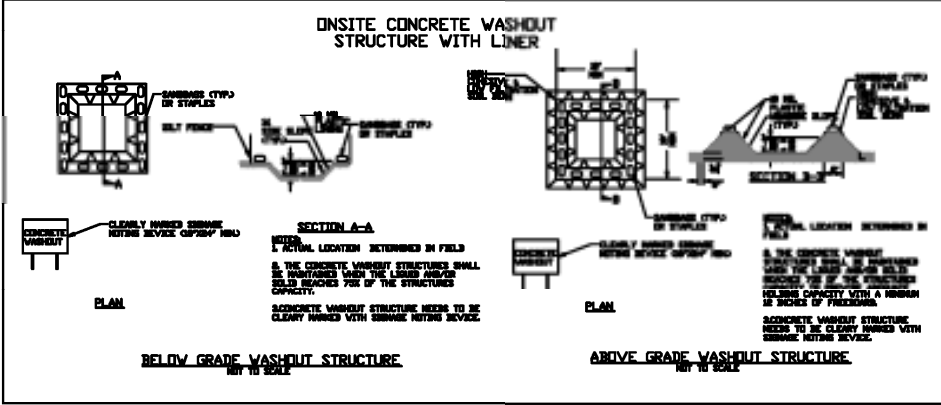
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Maintain portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

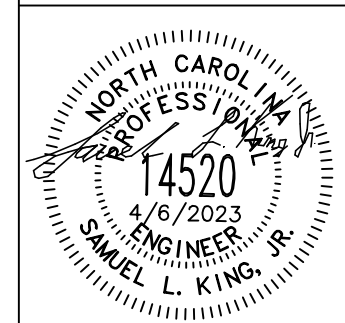
- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

NCG01 GROUND STABILIZATION AND MATERIALS HANDLING EFFECTIVE: 04/01/19

KING ENGINEERING OF CONCORD, Inc.
35 CHURCH STREET, S., SUITE 107
CONCORD, NORTH CAROLINA 28025
PHONE (828) 403 - 5586
C-4909



Stolz Services New Warehouse and Office Building
2990 Brantley Rd
Kannapolis, North Carolina

DRAWN BY: SLK
DESIGN BY: SLK
PROJ. MGR.: SLK

DESCRIPTION OF REVISIONS

NO. DATE

PROJECT NUMBER:
2022-013

SHEET NUMBER

C403

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual day rainfall information is available, record the cumulative rain measurement for those unattended days (i.e. the wet/dry status of a site inspection is needed). Days on which no rainfall occurred shall be recorded as "dry". The permittee may use another rain-measuring device approved by the Division.
(2) E&S Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measure inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of assistance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge (E&S)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&S measures, clearing and grubbing, installation of storm drainage facilities, completion of all land disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&S Plan Documentation
The approved E&S plan as well as any approved deviation shall be kept on the site. The approved E&S plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&S plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&S measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&S plan.	Initial and date each E&S measure on a copy of the approved E&S plan or complete, date and sign an inspection report that lists each E&S measure shown on the approved E&S plan. This documentation is required upon the initial installation of the E&S measures or if the E&S measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&S plan.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&S measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&S measures.	Initial and date a copy of the approved E&S plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site
In addition to the E&S plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical.

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years
All data used to complete the e-NRI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported
Permittees shall report the following occurrences:
(a) Visible sediment deposition in a stream or wetland.

- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).

(c) Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.

(d) Anticipated bypasses and unanticipated bypasses.

(e) Noncompliance with the conditions of this permit that may endanger health or the environment.

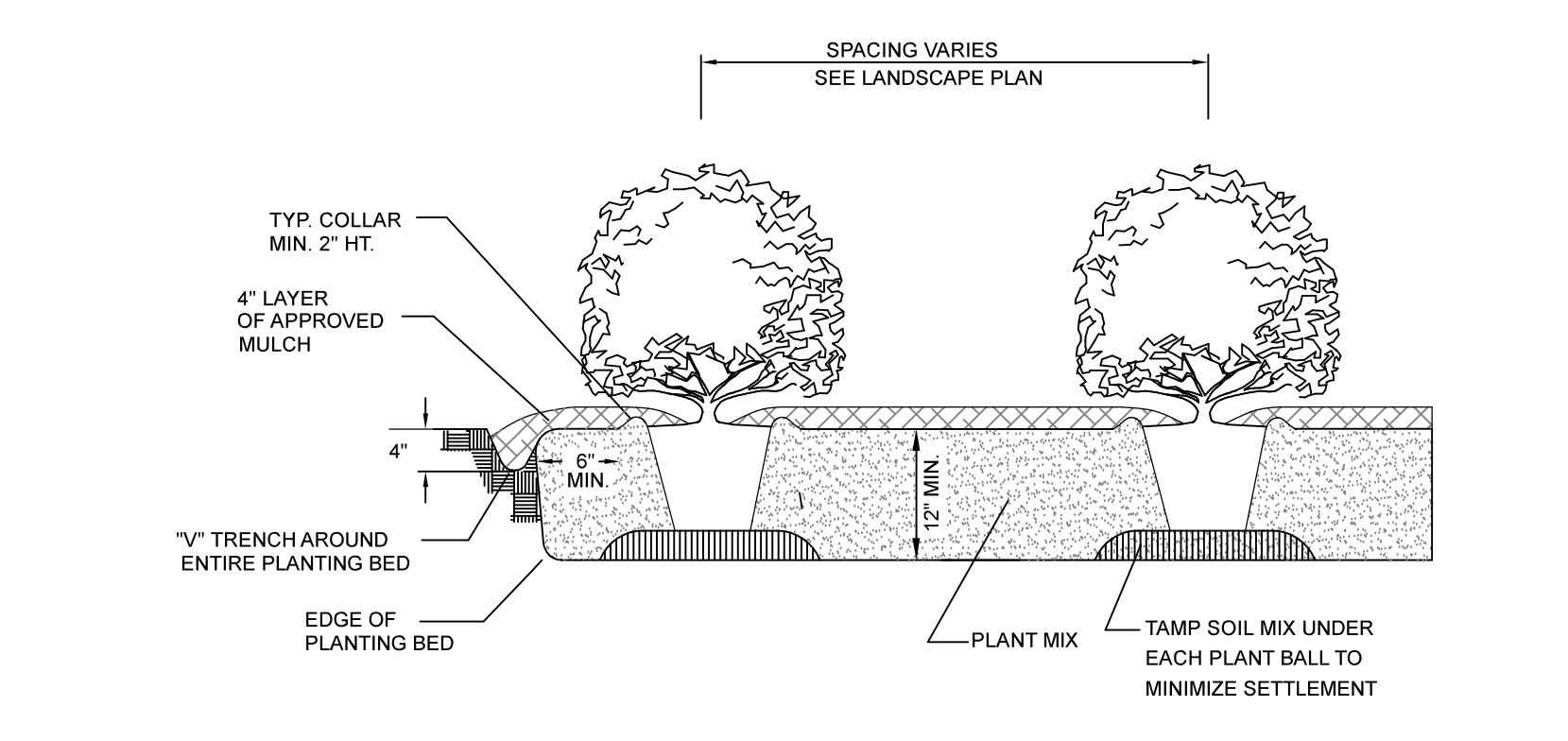
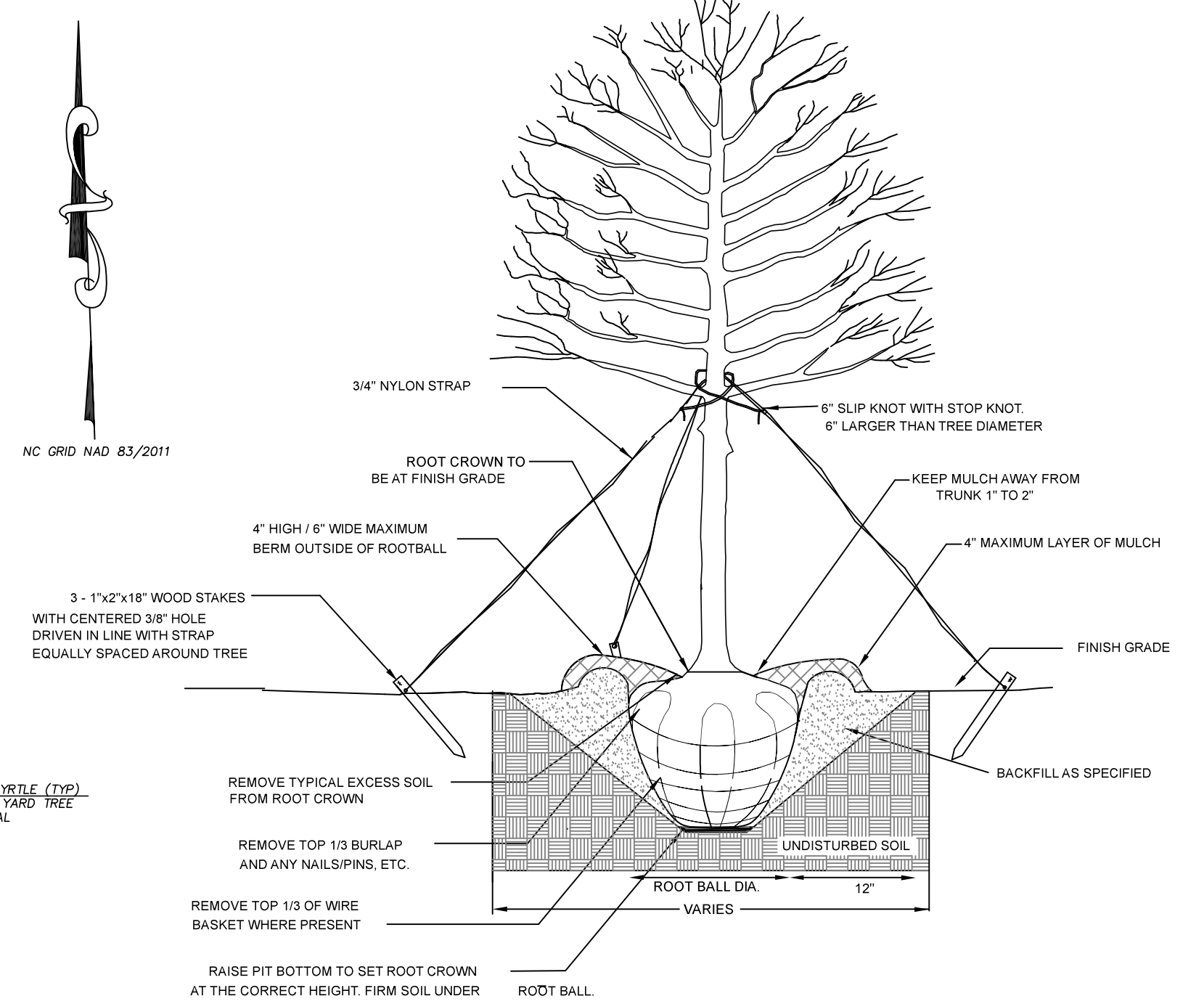
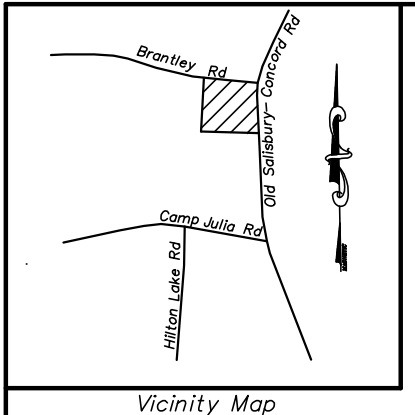
2. Reporting Timeframes and Other Requirements
After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to ensure compliance with the federal or state impinged waters conditions.
(b) Oil spills and release of hazardous substances per item 1(b)-(c) above	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release. A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(c) Anticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> Within 24 hours, an oral or electronic notification.
(d) Unanticipated bypasses (40 CFR 122.41(m)(3))	<ul style="list-style-type: none"> Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass. Within 24 hours, an oral or electronic notification.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(n)(7))	<ul style="list-style-type: none"> Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance. (40 CFR 122.41(n)(6)). Division staff may waive the requirement for a written report on a case-by-case basis.



NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING EFFECTIVE: 04/01/19

NCG01 SPECIFICATIONS

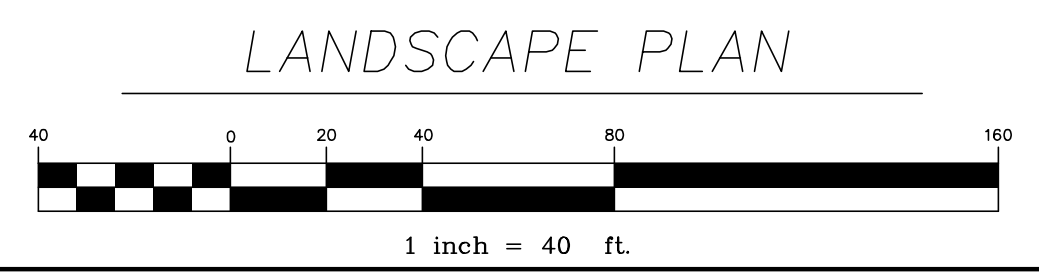


- LANDSCAPING REQUIREMENTS**
- PERIMETER BUFFER REAR YARD, TYPE C, L = 646', MIN. WIDTH = 8'**
 - 12 CANOPY TREES/100' X 646' = 76 CANOPY TREES
 - 14 UNDERSTORY TREES/100' X 646' = 91 UNDERSTORY TREES
 - 20 SHRUBS/100' X 646' = 130 SHRUBS
 - PERIMETER BUFFER WEST YARD, TYPE C, L = 599.73', MIN. WIDTH = 8'**
 - 12 CANOPY TREES/100' X 599.73' = 72 CANOPY TREES
 - 14 UNDERSTORY TREES/100' X 599.73' = 84 UNDERSTORY TREES
 - 20 SHRUBS/100' X 599.73' = 120 SHRUBS
 - STREET YARD - BRANTLEY RD, L = 560'**
 - 1 UNDERSTORY TREE/35' X 560' = 16 UNDERSTORY TREES
 - STREET YARD - OLD SALISBURY-CONCORD RD, L = 560'**
 - 1 UNDERSTORY TREE/35' X 560' = 16 UNDERSTORY TREES
 - BUILDING YARD - OLD SALISBURY-CONCORD RD, L = 99'**
 - 1 UNDERSTORY TREE/25' X 99' = 4 UNDERSTORY TREES
 - 1 SHRUB/2' X 99' = 50 UNDERSTORY TREES
 - BUILDING YARD - BRANTLEY RD, L = 99'**
 - 1 UNDERSTORY TREE/25' X 99' = 4 UNDERSTORY TREES
 - 1 SHRUB/2' X 99' = 50 UNDERSTORY TREES

PLANT LEGEND:

KEY	TREE TYPE	COMMON NAME	SIZE	SPACING	QUANTITY
	<i>Acer rubrum</i>	Red Maple	8'-10' planting height	As Shown	150
	<i>Lagerstroemia indica</i>	Crapemyrtle	6' planting height	As Shown	215
	<i>Ilex cornuta burfordi</i>	Burford holly	3 gallon	As Shown	450

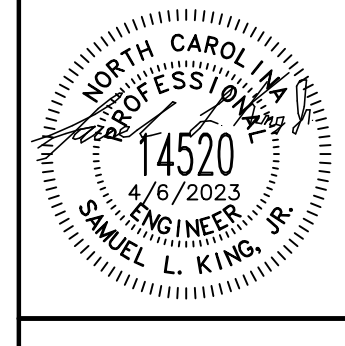
- PLANTING NOTES:**
- CONTRACTOR TO VERIFY QUANTITIES OF PLANTS. PLANTING PLAN TO TAKE PRECEDENCE OVER PLANT QUANTITIES.
 - ALL SUBSTITUTIONS SHALL BE APPROVED BY LANDSCAPE ARCHITECT OR OWNER.
 - FURNISH NURSERY-GROWN PLANTS INDICATED IN PLANT LEGEND SHOWN ON DRAWINGS AND COMPLYING WITH ANSI Z60.1 - 2014, AMERICAN STANDARD FOR NURSERY STOCK.
 - ALL PLANT BEDS, ISLANDS, OR AREAS INDICATED AS "MULCH", SHALL BE MULCHED WITH DOUBLE HAMMERED HARDWOOD MULCH.
 - PLANTING COORDINATION NOTE:** CONTRACTOR SHALL TAKE PRECAUTIONS TO AVOID UTILITIES WHEN INSTALLING PLANTS AND LANDSCAPE. FIELD ADJUSTMENT OF SPECIFIC PLANT LOCATION MAY BE NECESSARY. IF ADJUSTMENTS WARRANT PLANT MATERIAL TO BE ELIMINATED, NOTIFY LANDSCAPE ARCHITECT/OWNER IMMEDIATELY.
 - ALL DISTURBED AREAS NOT INDICATED AS PLANT BEDS, TREE PITS, ETC., SHALL BE GRASSED WITH FESCUE GRASS OR EQUIVALENT APPROVED BY THE OWNER/LANDSCAPE ARCHITECT.



- LEGEND**
- EXISTING CONTOUR
 - - - RIGHT OF WAY
 - N90°00'00"E — PROPERTY LINE
 - WIRE FENCE
 - - - ADJOINING PROPERTY LINES
 - OVERHEAD UTILITY
 - UTILITY/LIGHT POLE

NOTE:
 COMPLYING WITH CITY OF KANNAPOLIS PLAN REVIEW COMMENTS DOES NOT RELIEVE THE DEVELOPER OF THE RESPONSIBILITY OF COMPLYING WITH ANY AND ALL LOCAL, STATE, OR FEDERAL REGULATIONS CONCERNING THIS PLAN.

KING ENGINEERING OF CONCORD, INC.
 35 CHURCH STREET, S. SUITE 107
 CONCORD, NORTH CAROLINA 28025
 PHONE (828) 403 - 5586
 C-4909 kingengineer.com



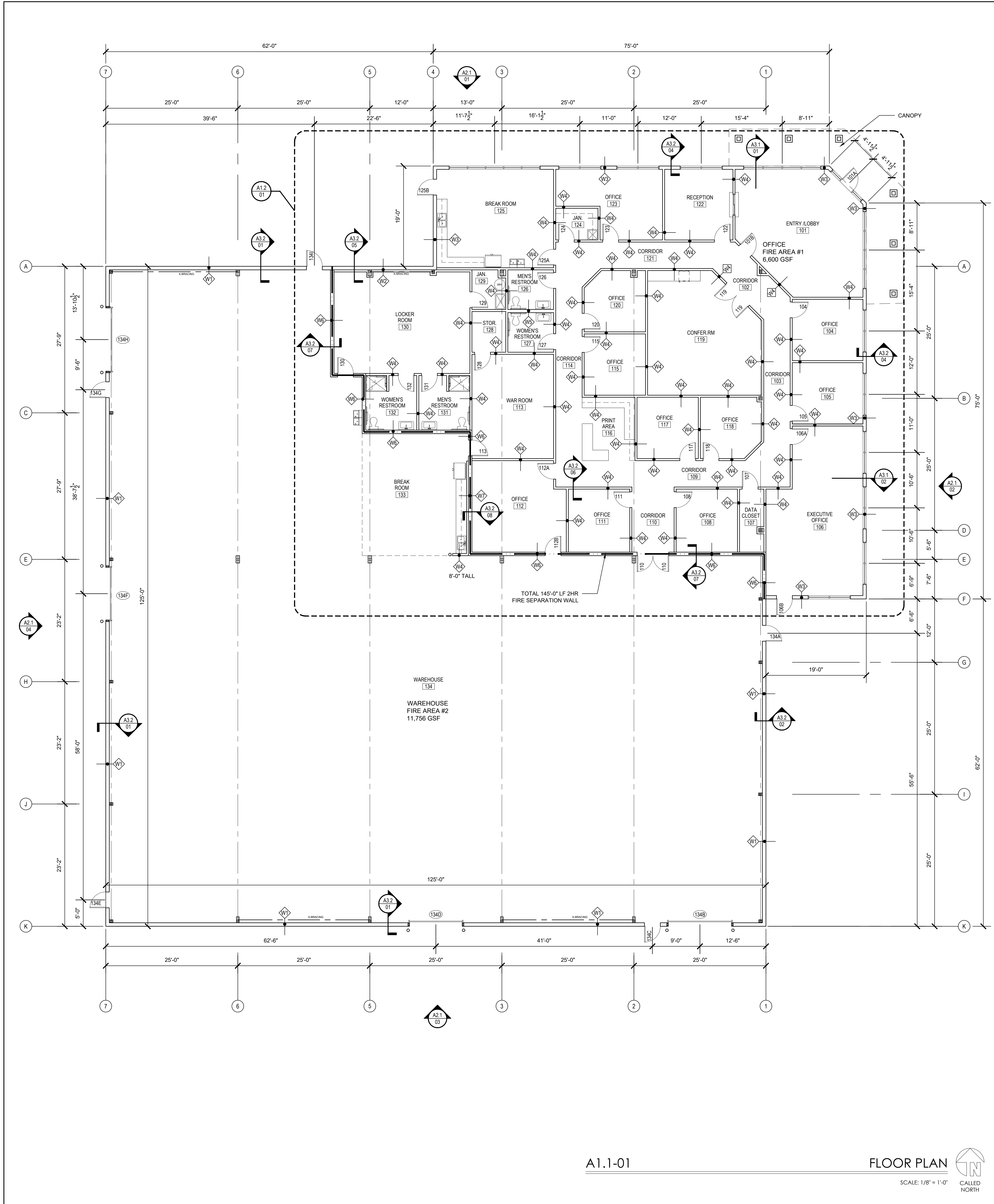
Stolz Services New Warehouse and Office Building
 and Office Building
 2990 Brantley Rd
 Kannapolis, North Carolina

DRAWN BY: SLK
 DESIGN BY: SLK
 PROJ. MGR.: SLK

NO.	DATE	DESCRIPTION OF REVISIONS

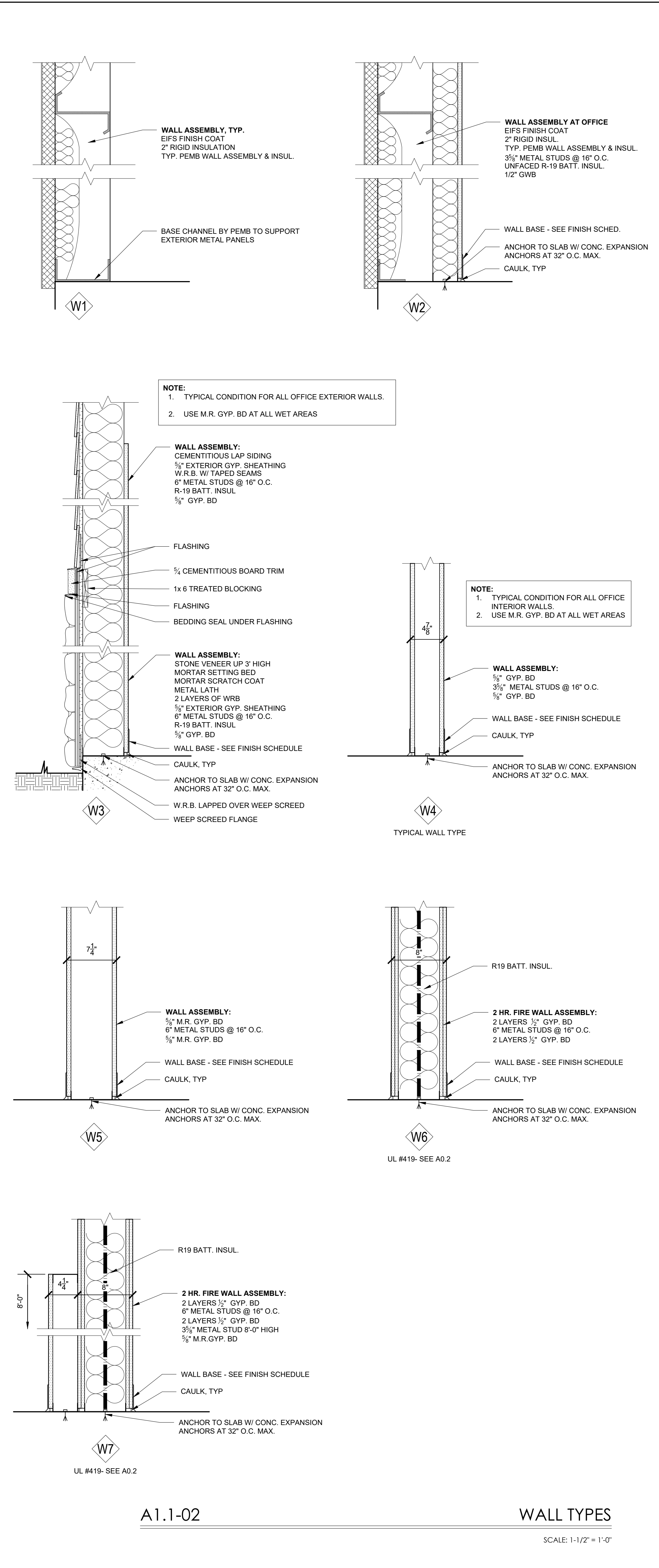
PROJECT NUMBER:
 2022-100

SHEET NUMBER
C500



A1.1-01

FLOOR PLAN
SCALE: 1/8" = 1'-0"
CALLED NORTH



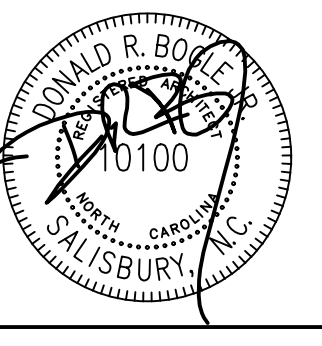
A1.1-02

WALL TYPES
SCALE: 1-1/2" = 1'-0"

PUBLICATION OR REUSE OF THESE DRAWINGS OR ANY INCLUDED DETAILS MUST BE WITH THE WRITTEN CONSENT OF THE FIRM'S PRINCIPAL ARCHITECT.

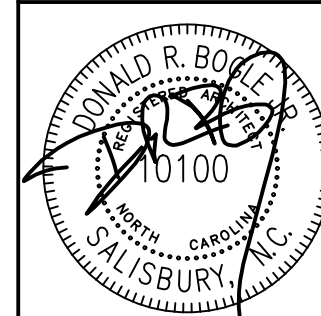
FLOOR PLAN & WALL TYPES

STOLZ SERVICES OFFICE AND WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



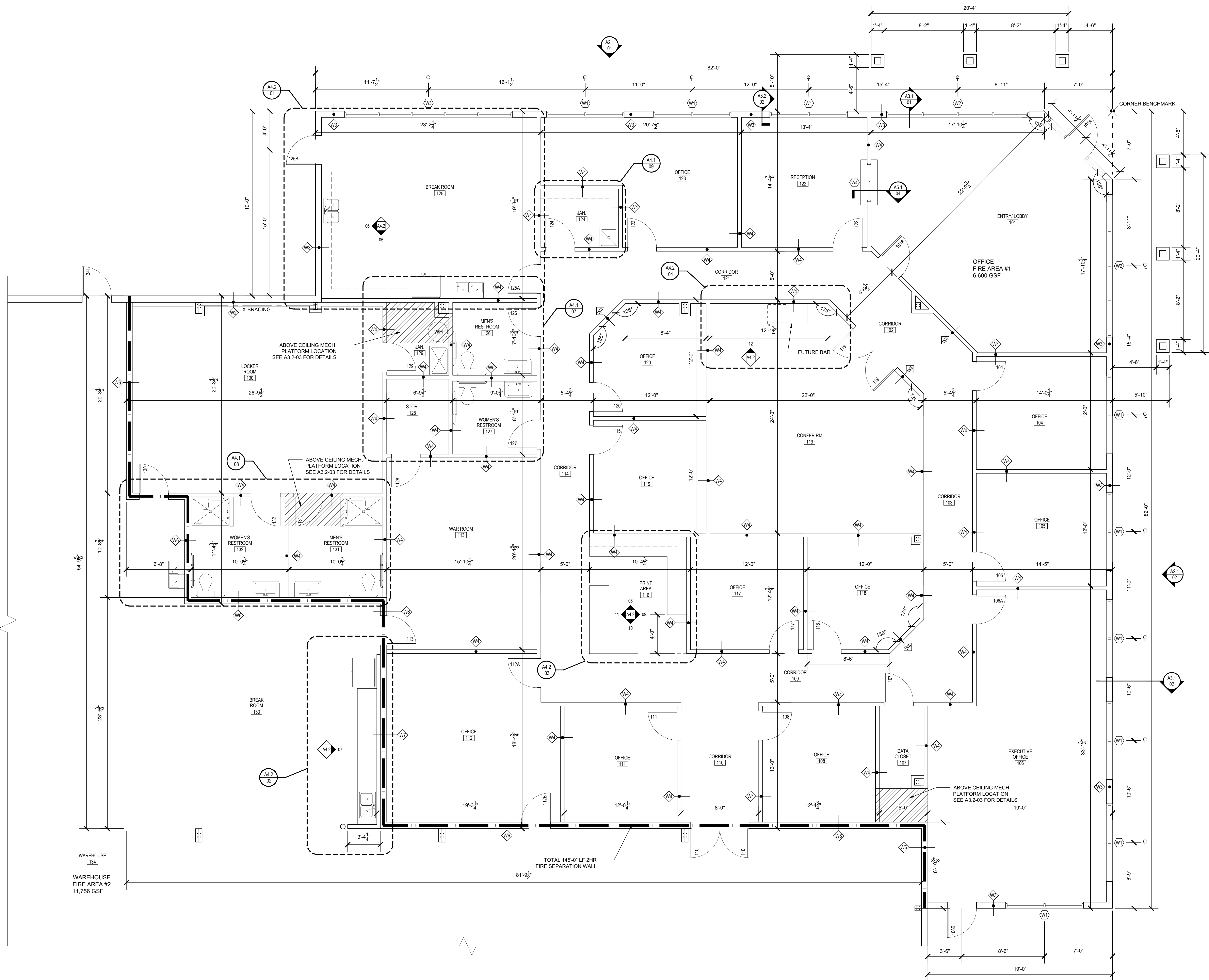
ENLARGED FLOOR PLAN

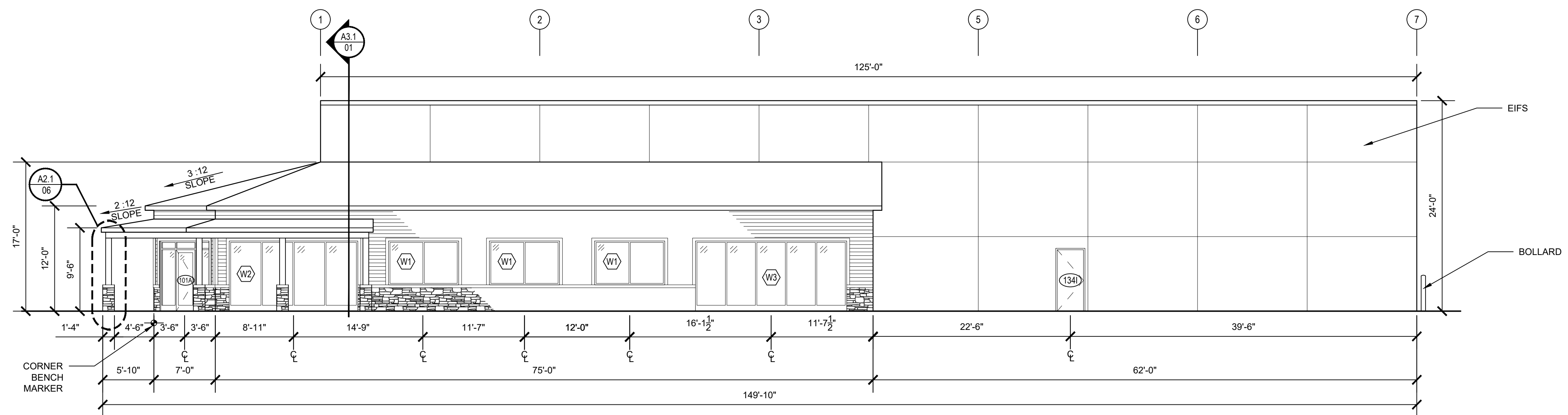
STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



DRAWN BY: MNB
CHECKED BY: DRB
DATE: 04.10.2023
PROJECT #: 2235

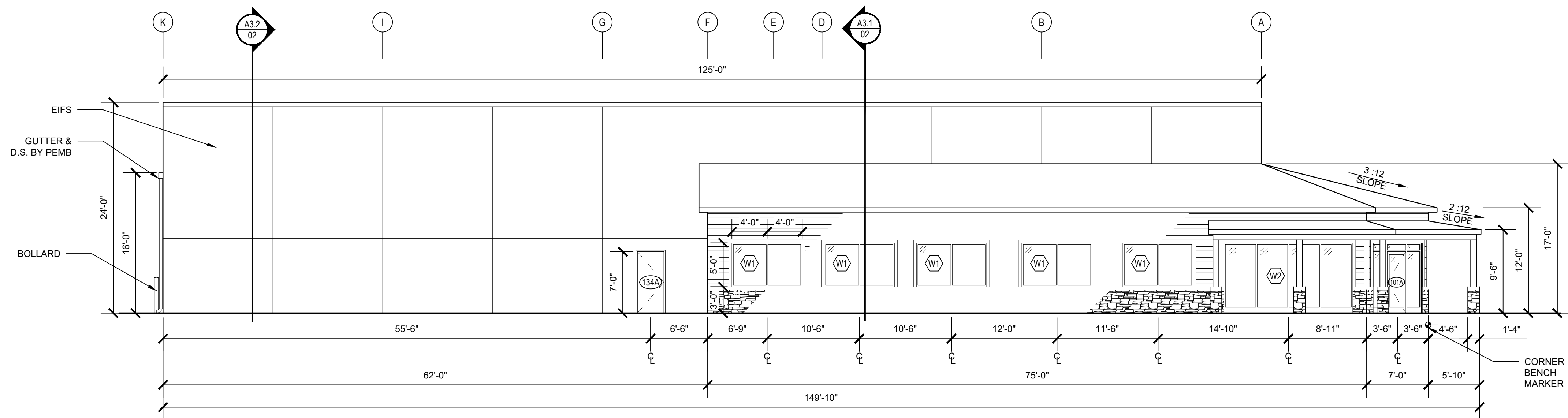
SHEET NUMBER
A1.2
OF: 11





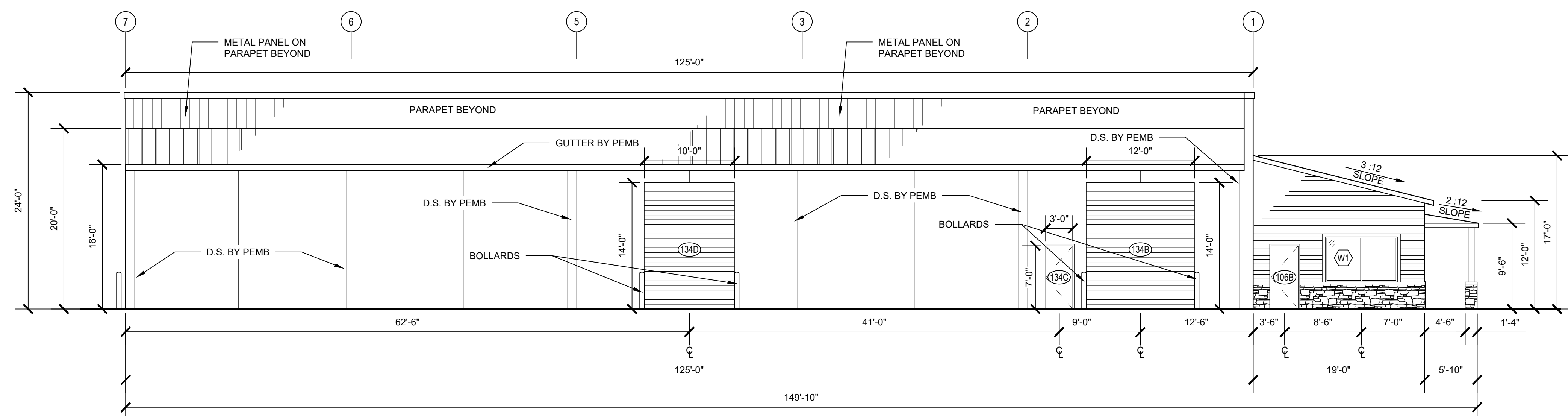
A2.1-01 NORTH ELEVATION

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



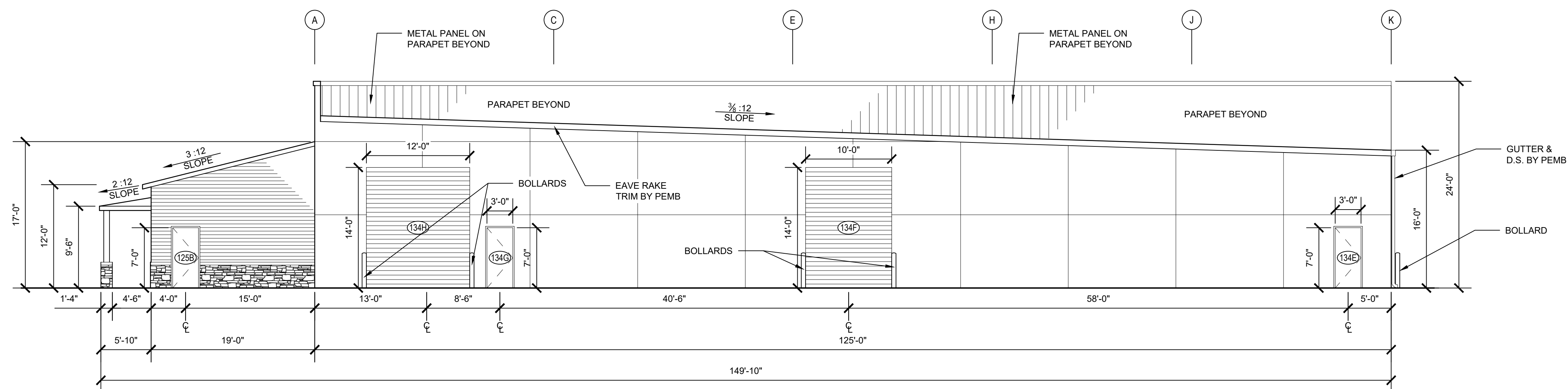
A2.1-02 EAST ELEVATION

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



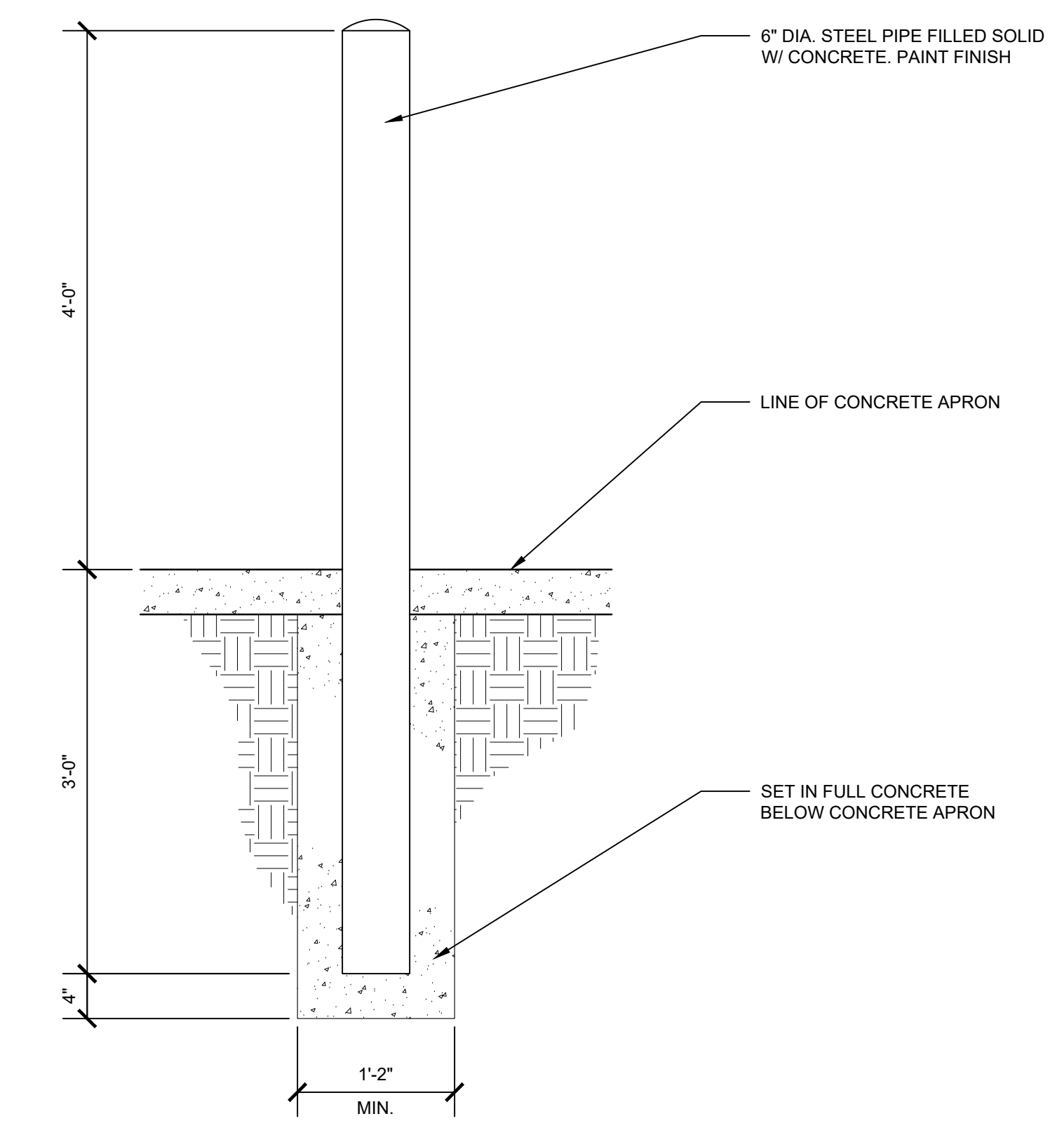
A2.1-03 SOUTH ELEVATION

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



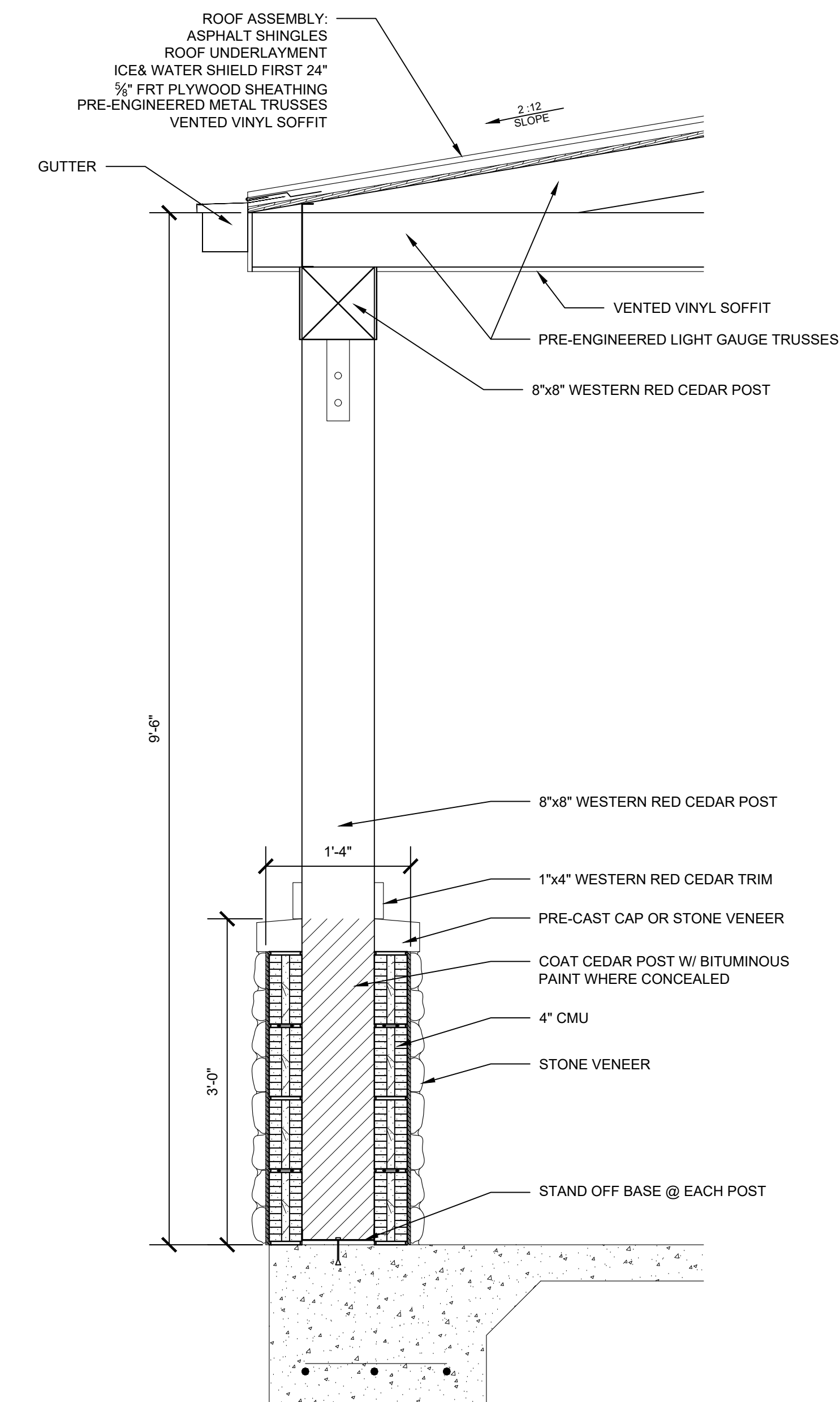
A2.1-04 WEST ELEVATION

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



A2.1-05 BOLLARD DETAILS

SCALE: 1" = 1'-0"

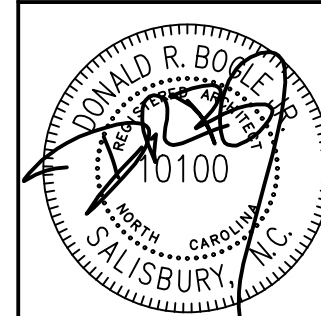


A2.1-06 PORCH SECTION DETAIL

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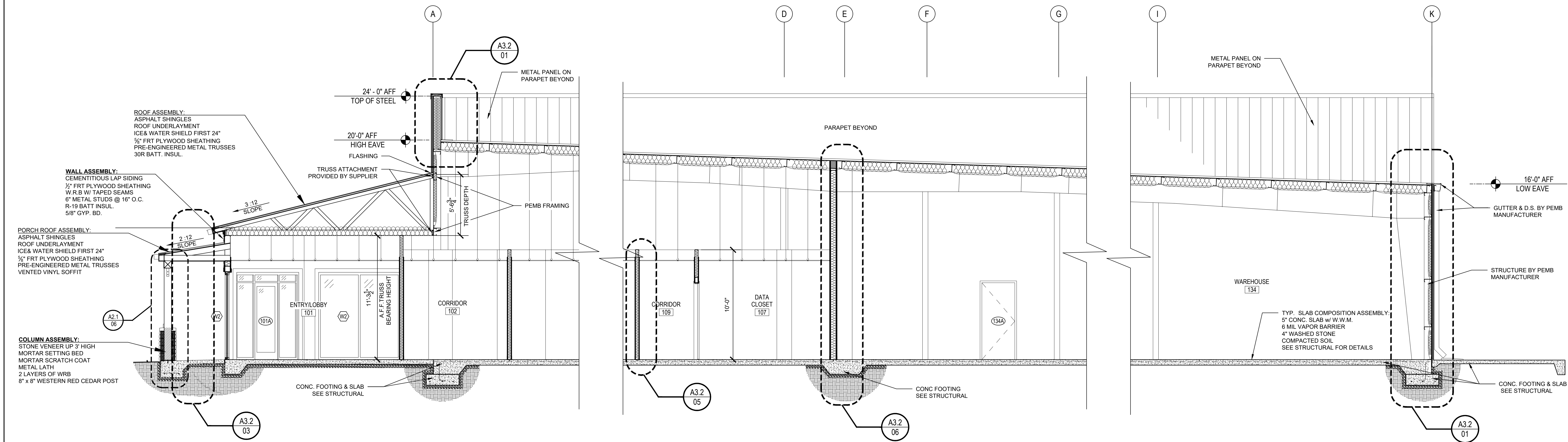
EXTERIOR ELEVATIONS

STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



DRAWN BY: MNB
CHECKED BY: DRB
DATE: 04.10.2023
PROJECT #: 2235

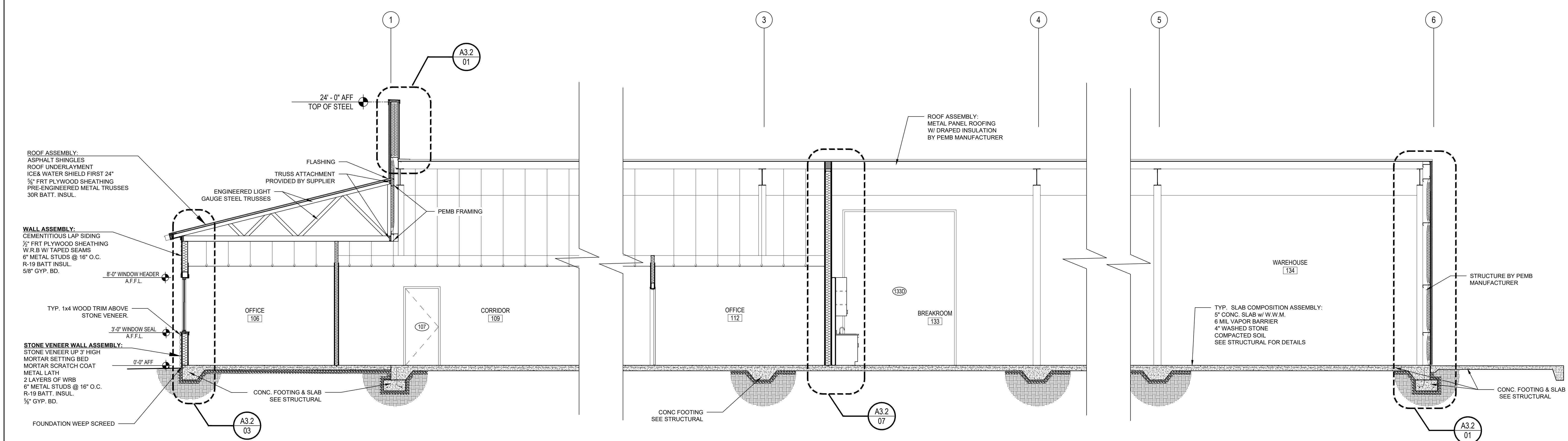
SHEET NUMBER
A2.1
OF: 11



A3.1-01

BUILDING SECTION

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



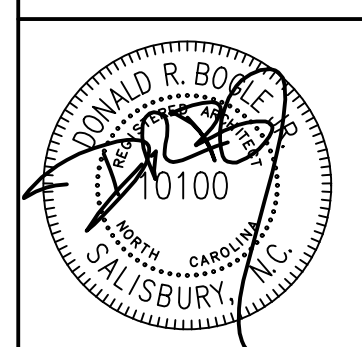
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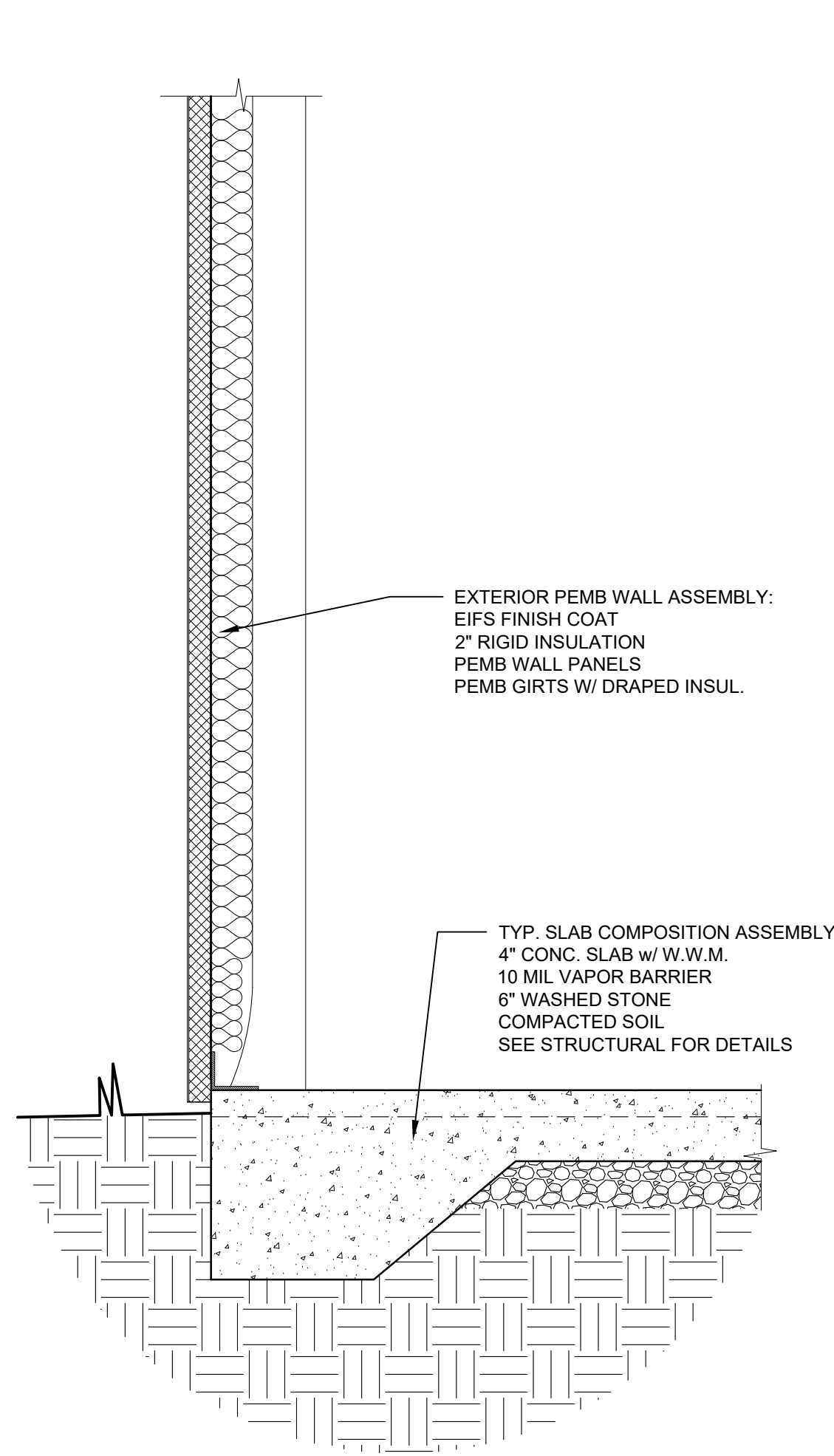
BUILDING SECTION

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

BUILDING SECTIONS

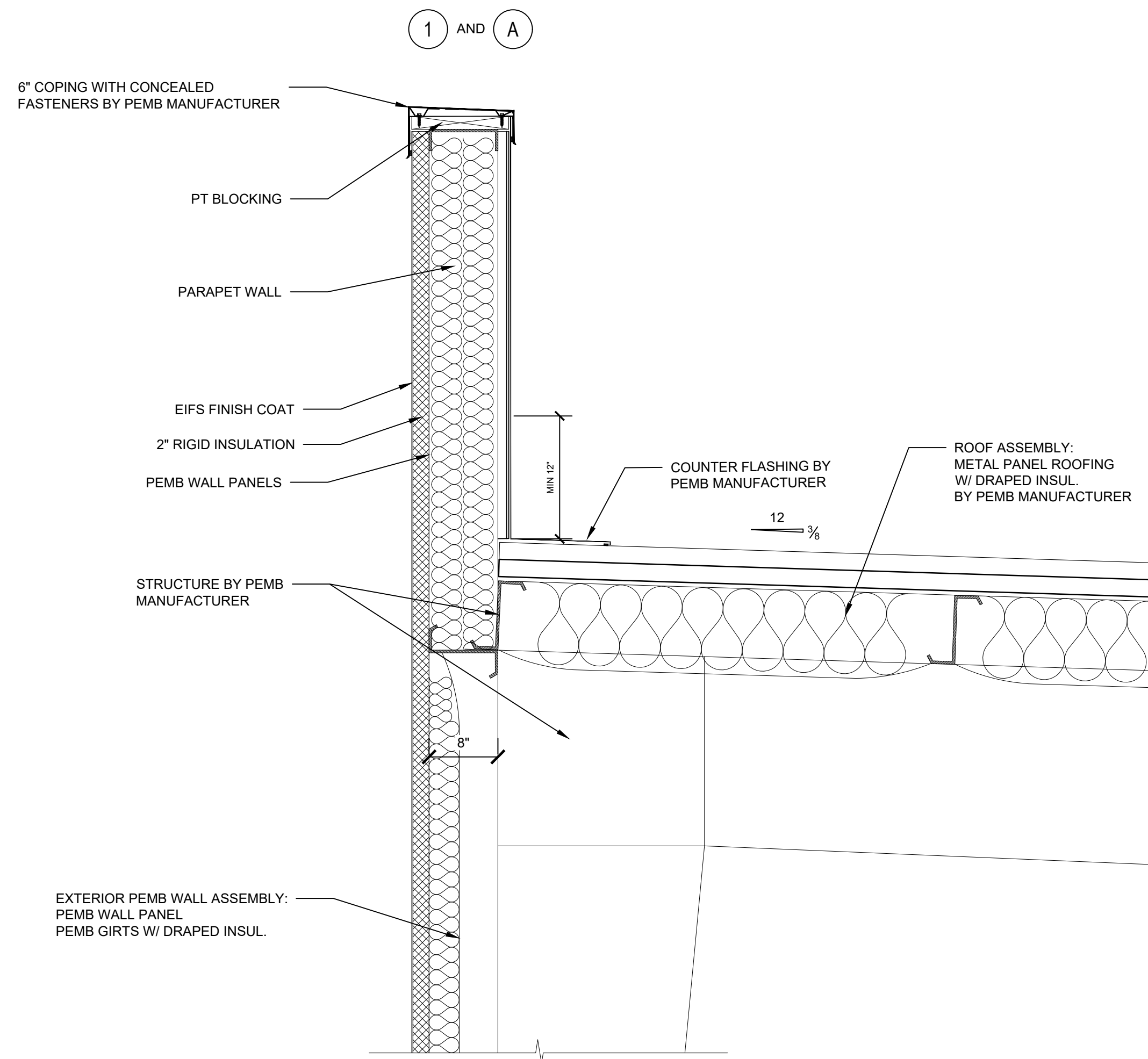
STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083





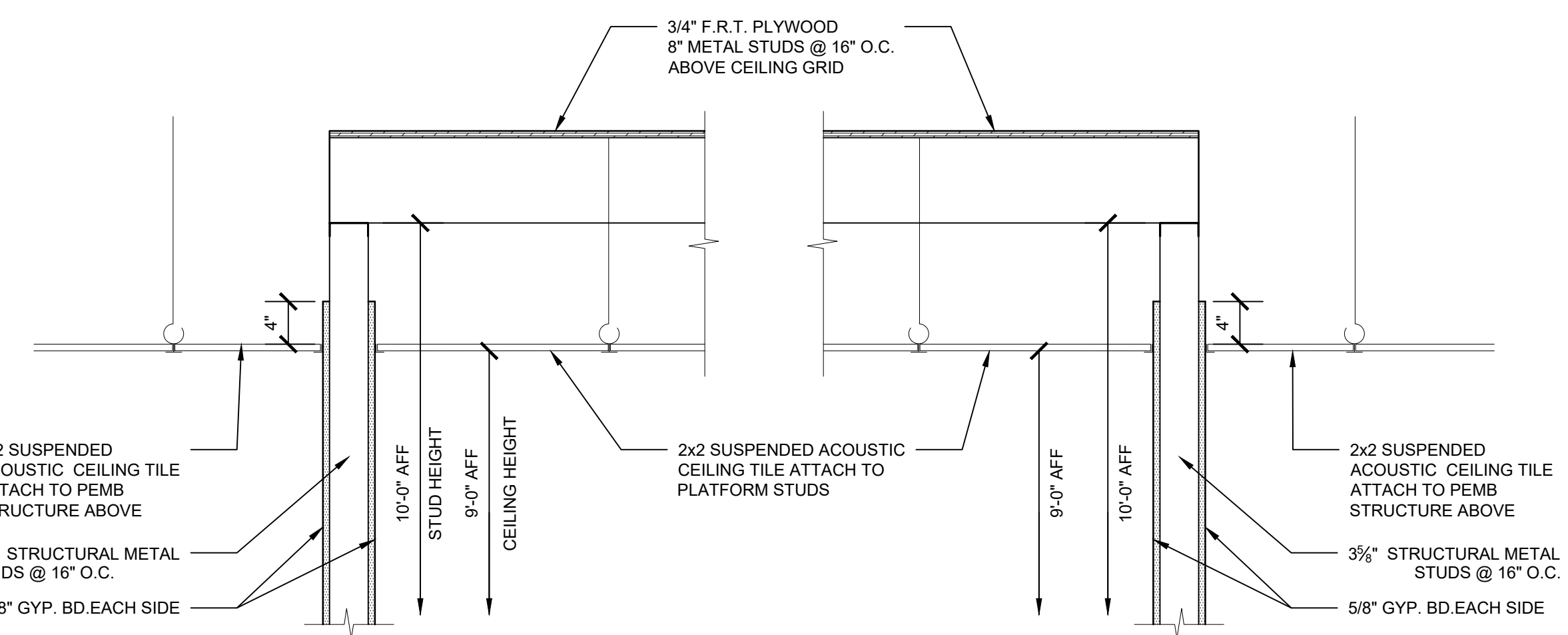
A3.2-01 WALL SECTION

SCALE: 1" = 1'-0"



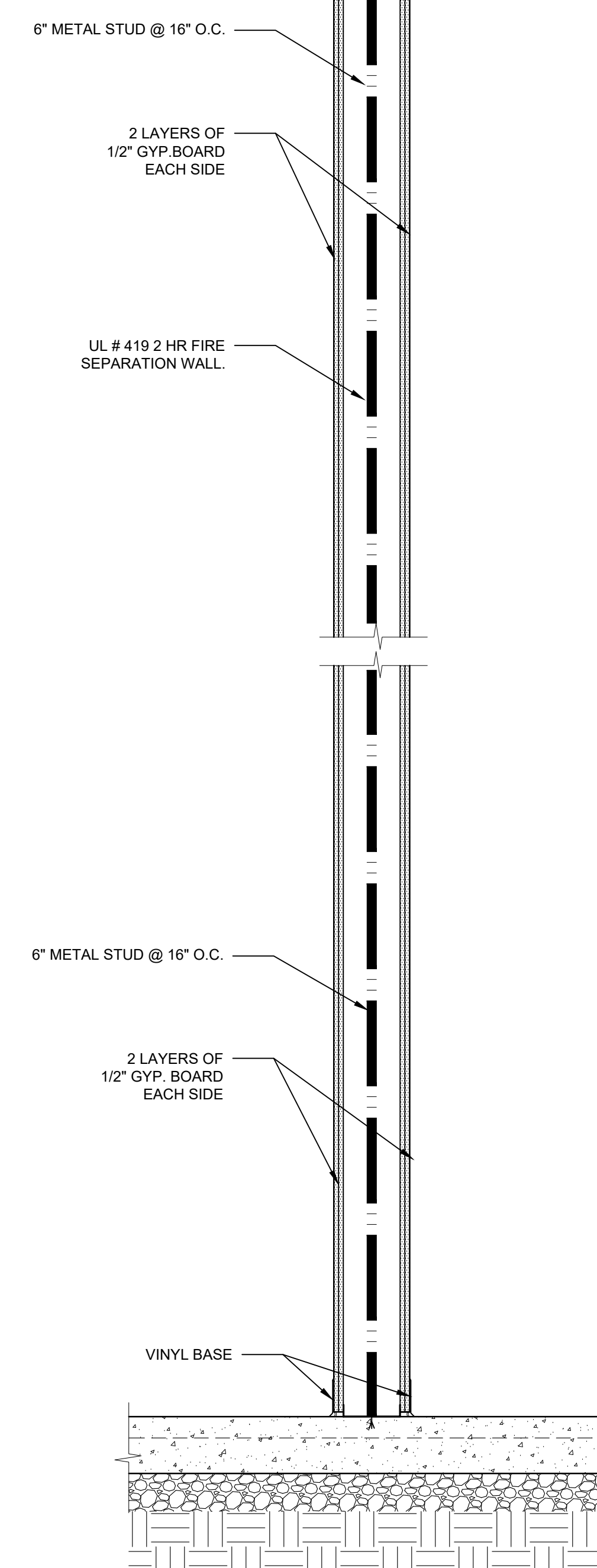
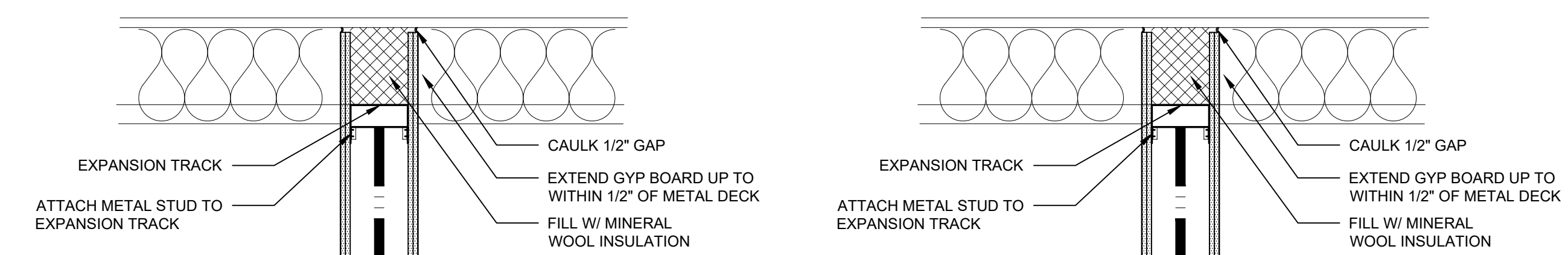
A3.2-02 PARAPET WALL SECTION

SCALE: 1" = 1'-0"



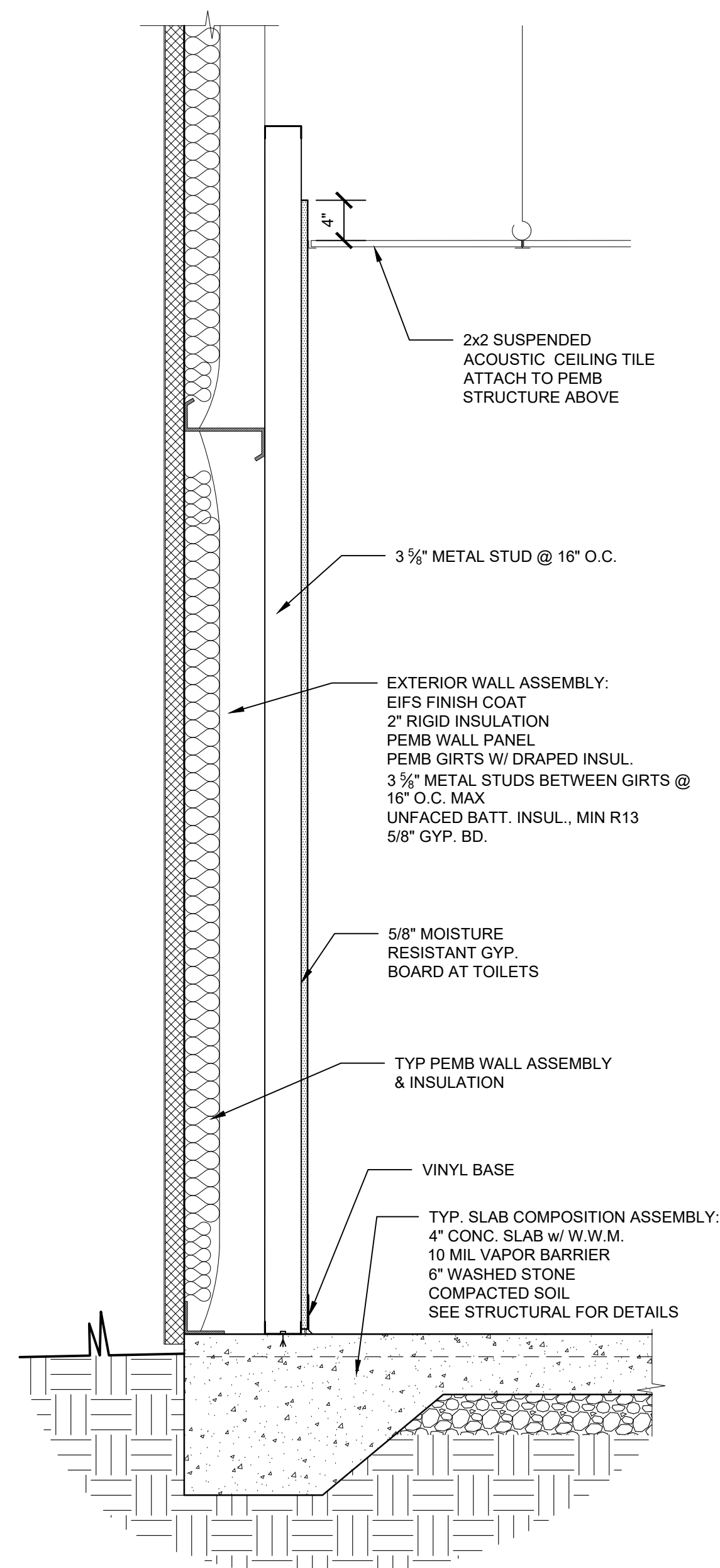
A3.2-03 PLATFORM WALL SECTION

SCALE: 1" = 1'-0"



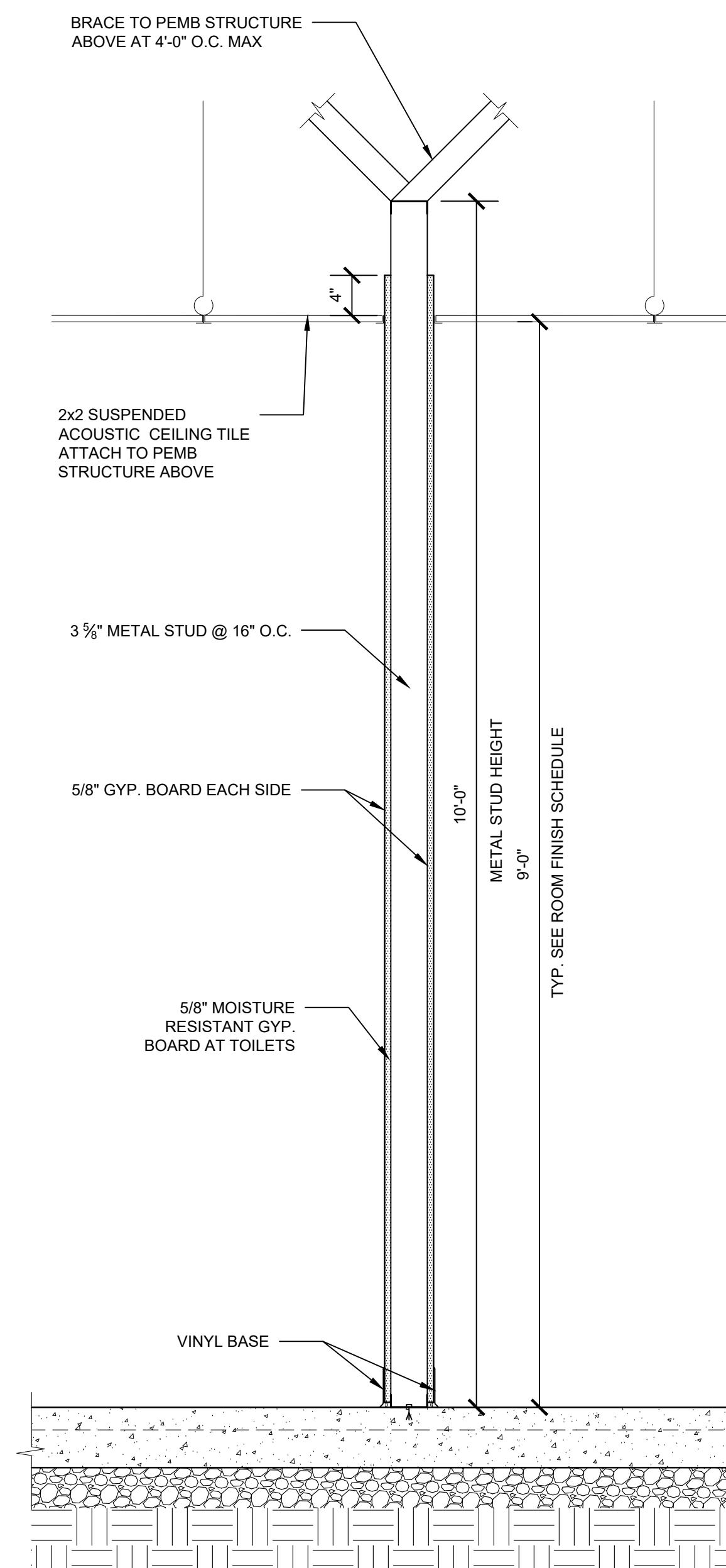
A3.2-04 WALL SECTION

SCALE: 1" = 1'-0"



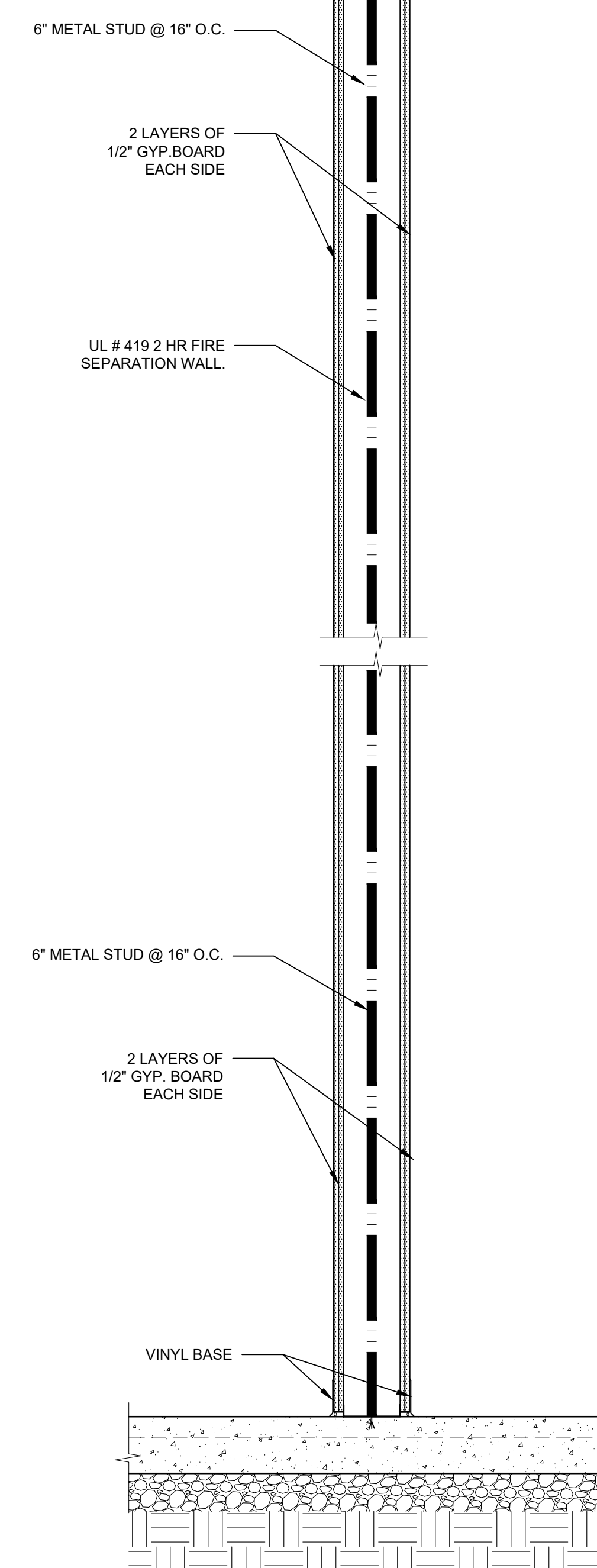
A3.2-05 WALL SECTION

SCALE: 1" = 1'-0"



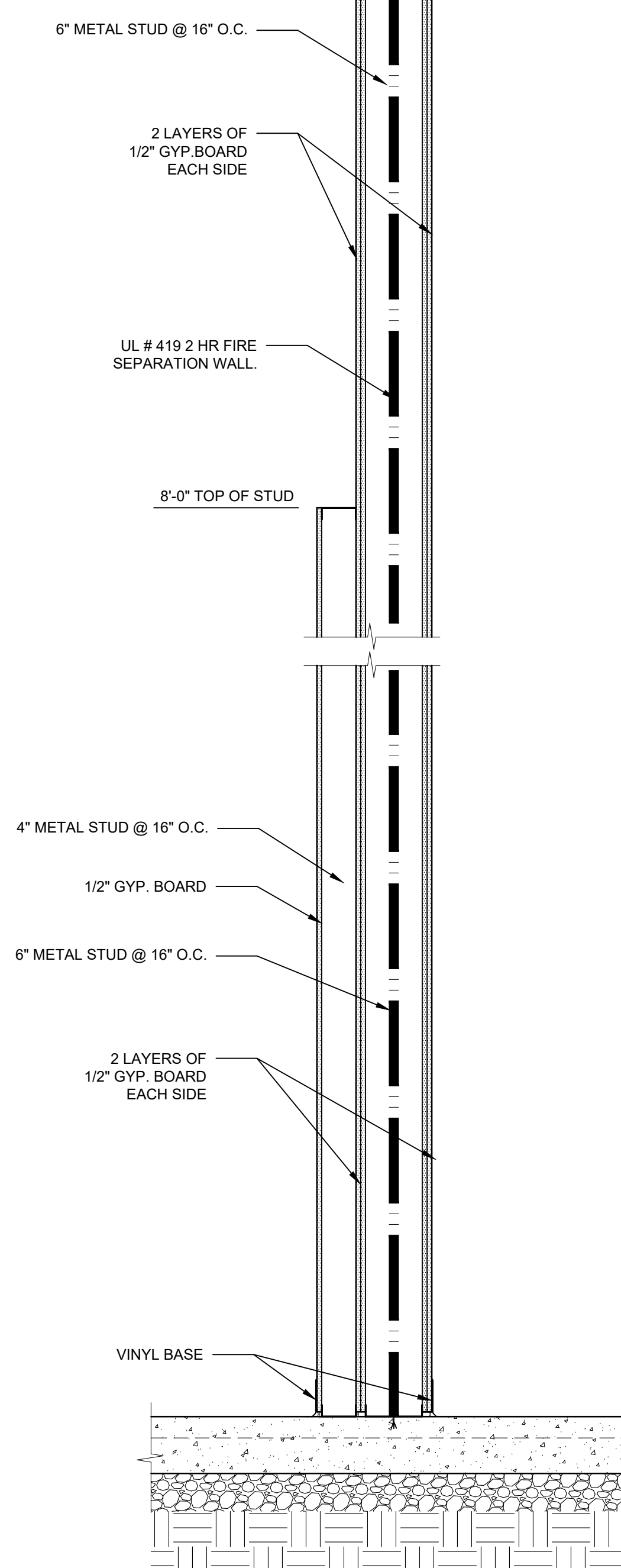
A3.2-06 WALL SECTION

SCALE: 1" = 1'-0"



A3.2-07 WALL SECTION

SCALE: 1" = 1'-0"

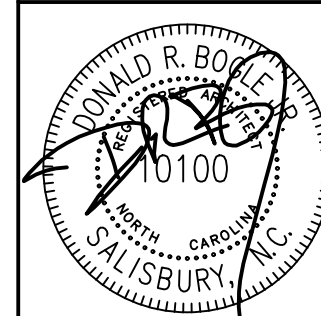


A3.2-08 WALL SECTION

SCALE: 1" = 1'-0"

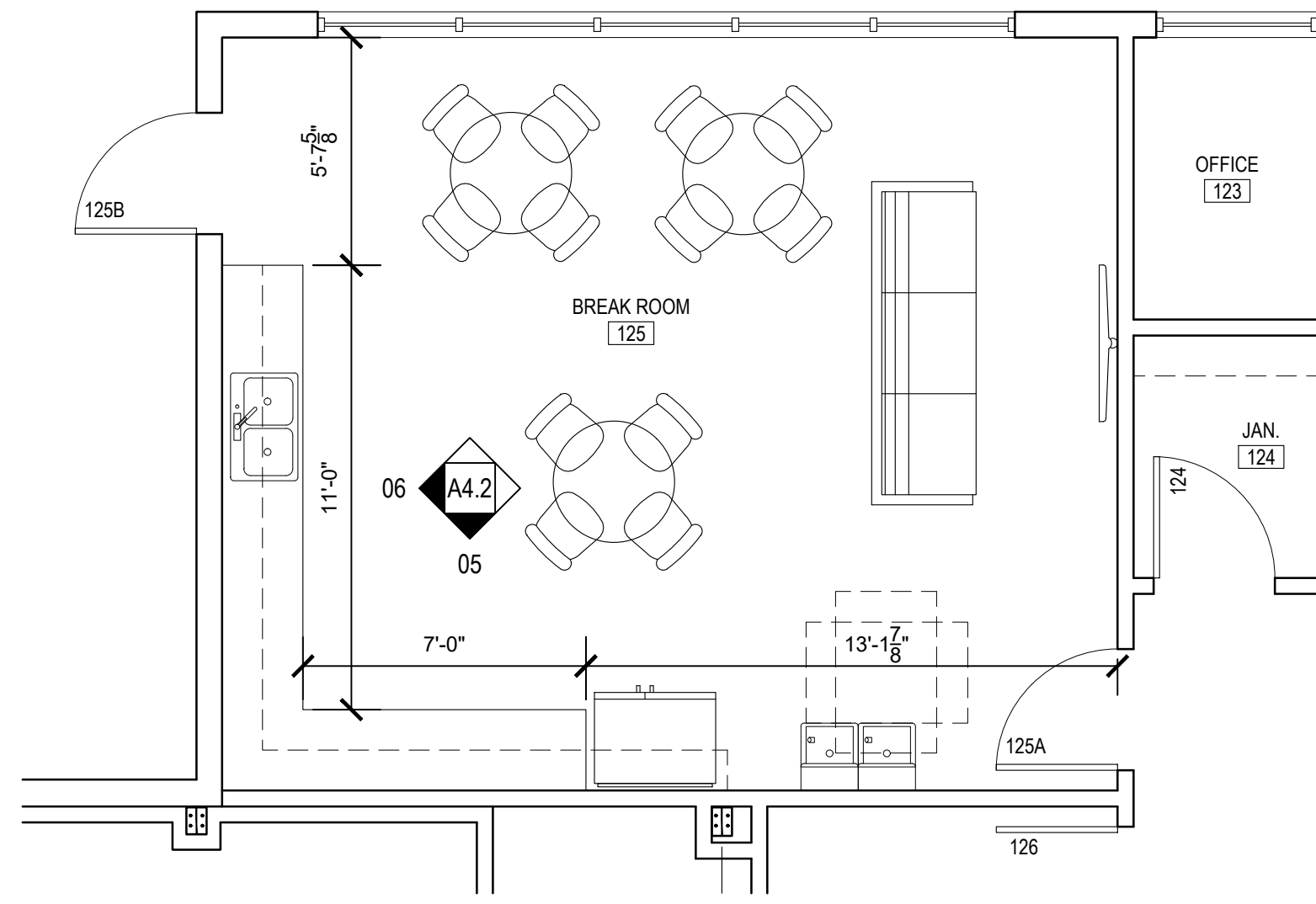
WALL SECTIONS

STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



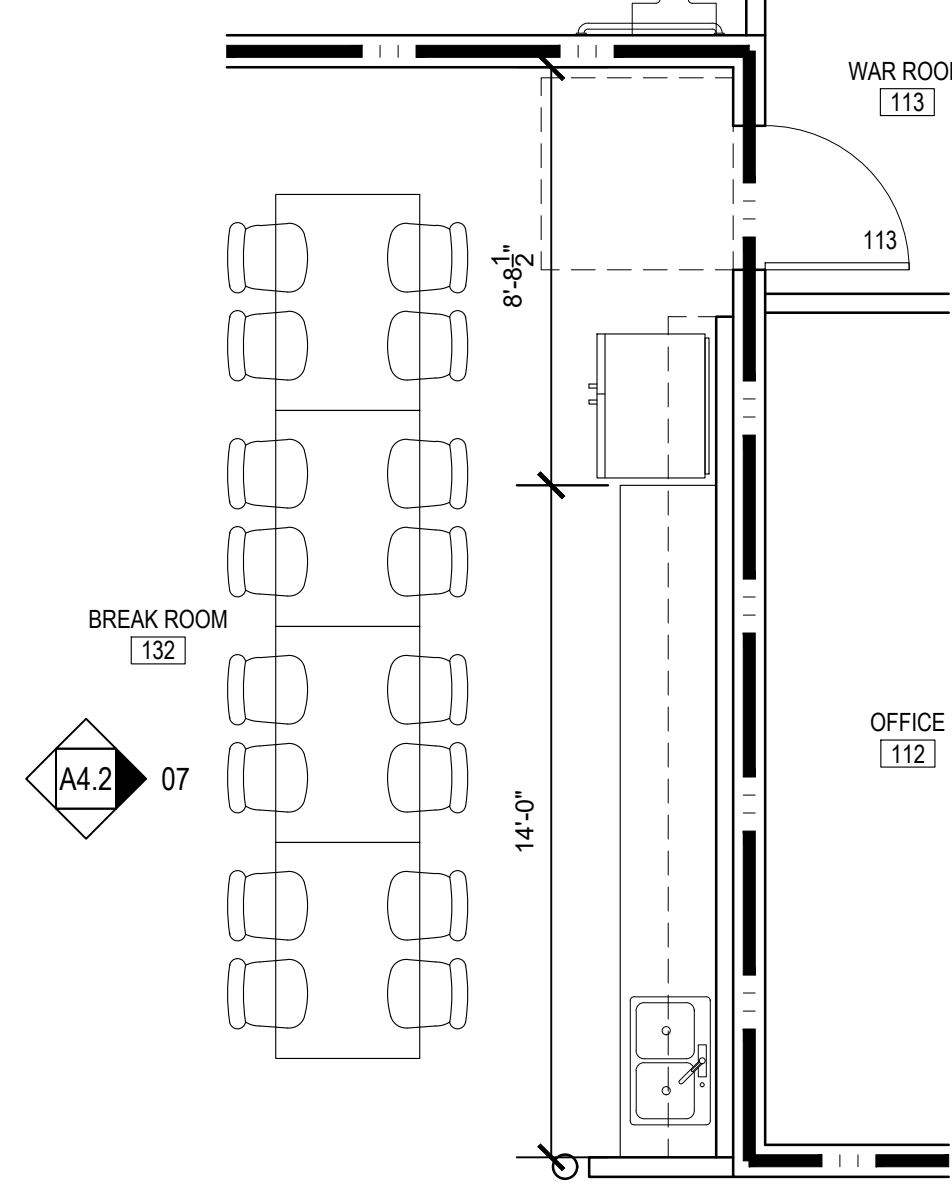
DRAWN BY: MNB
CHECKED BY: DRB
DATE: 04.10.2023
PROJECT #: 2235

SHEET NUMBER
A3.2
OF: 11



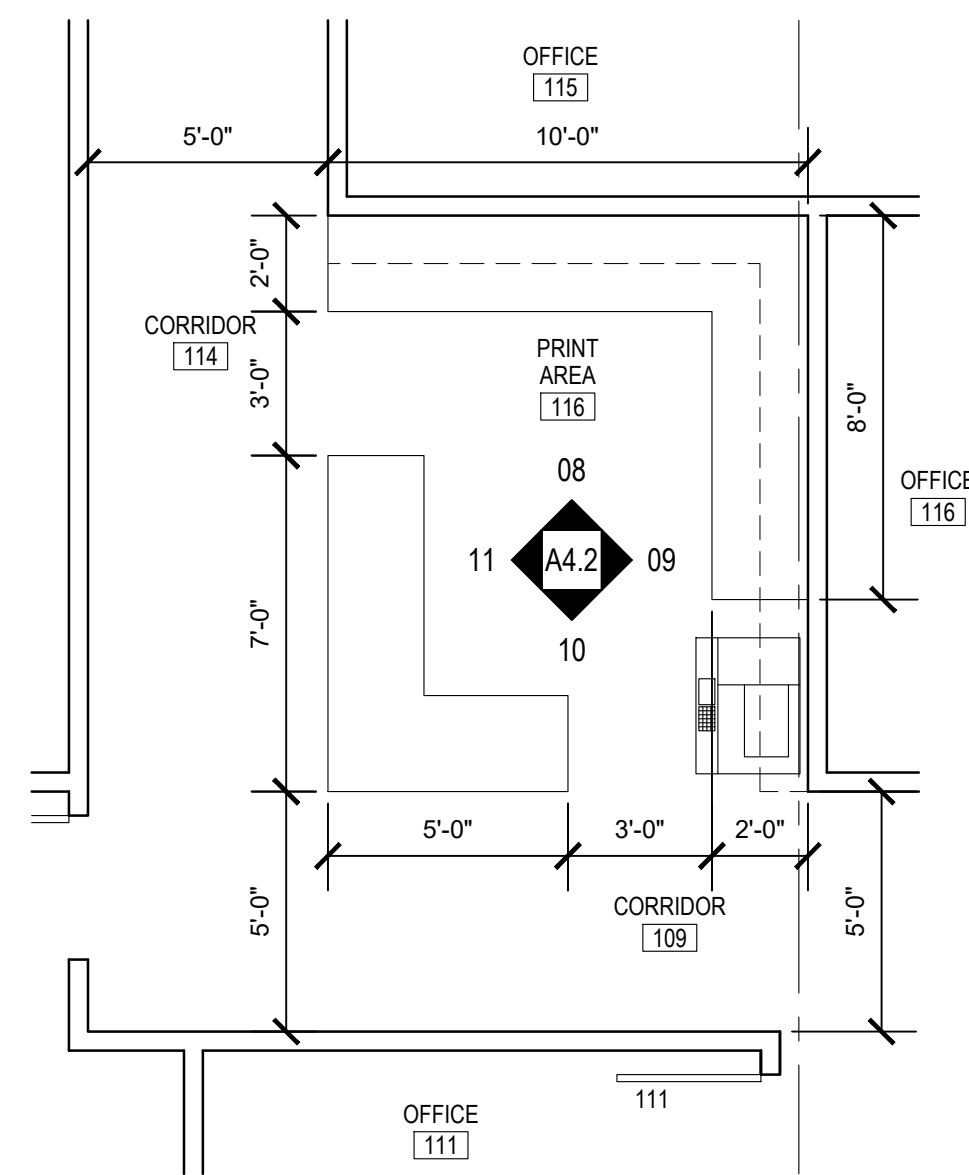
A4.2-01 125 BREAK ROOM ENLARGED FLOOR PLAN

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



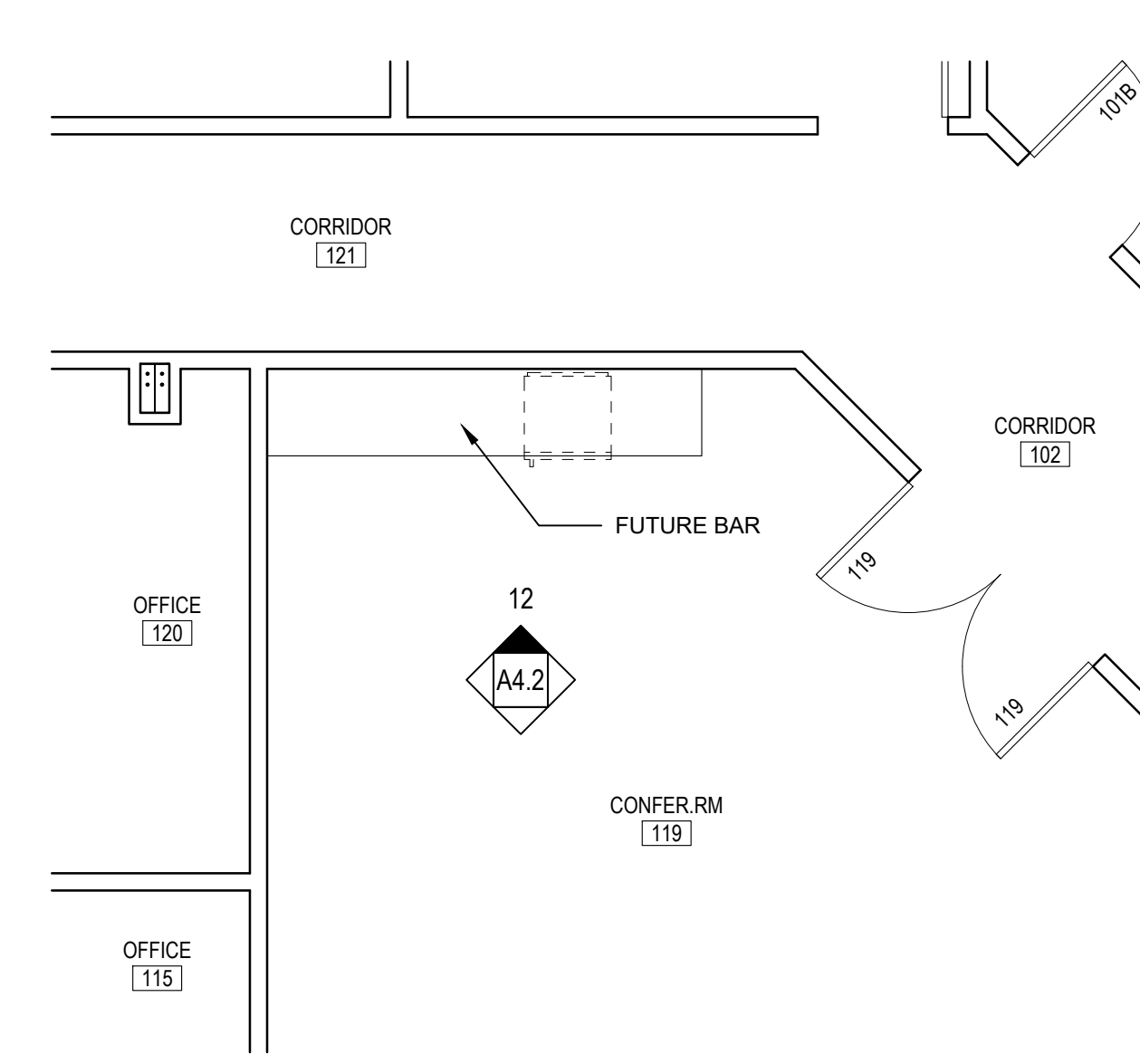
A4.2-02 133 BREAK ROOM ENLARGED FLOOR PLAN

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



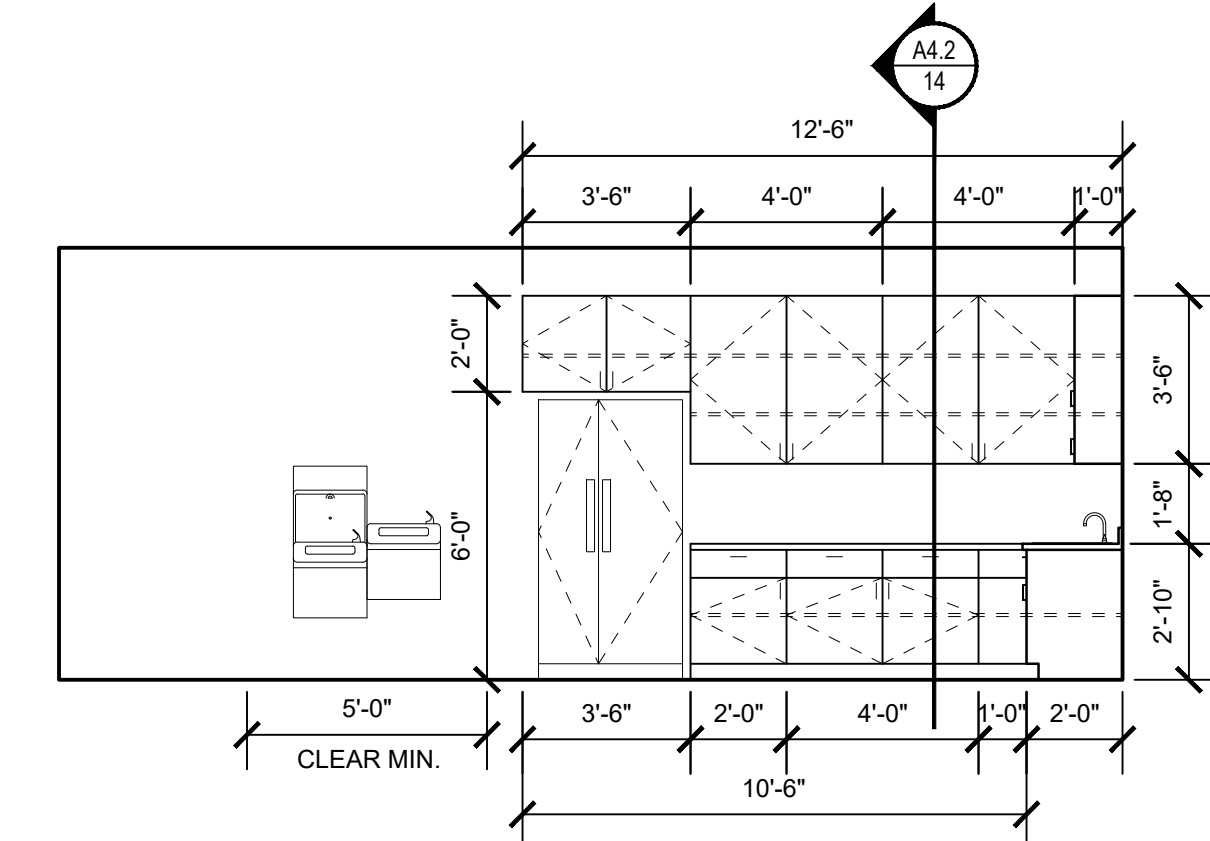
A4.2-03 116 PRINT AREA ENLARGED FLOOR PLAN

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



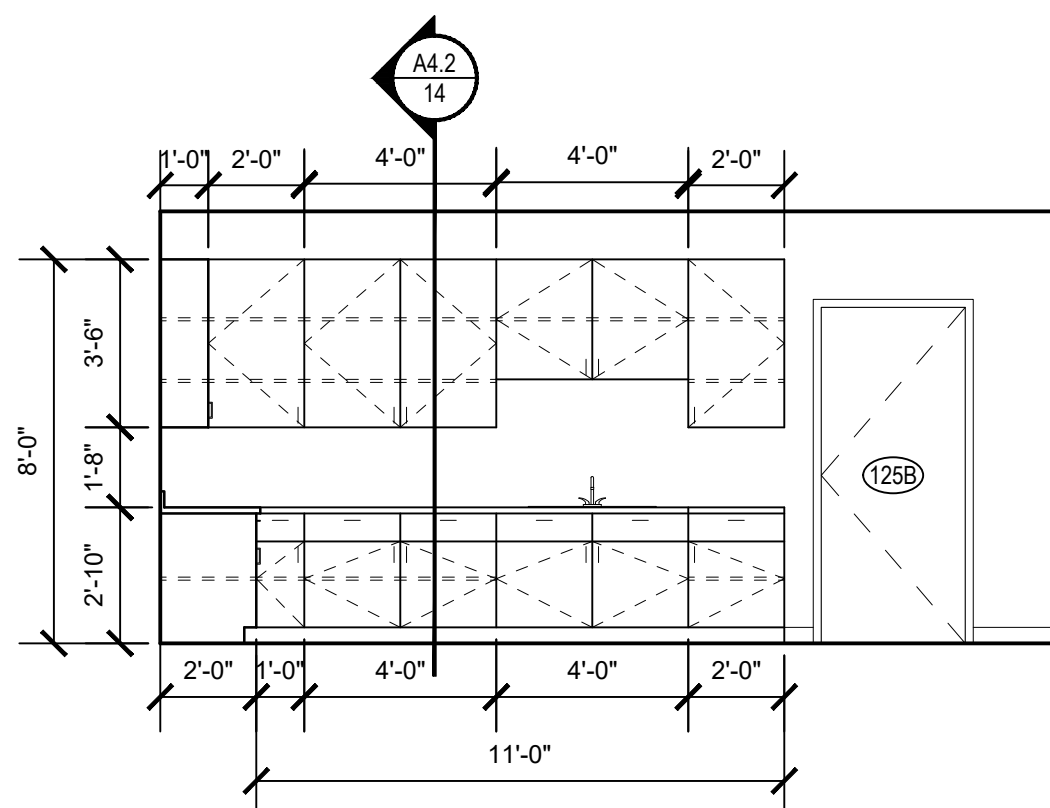
A4.2-04 119 CONFERENCE ROOM ENLARGED FLOOR PLAN

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



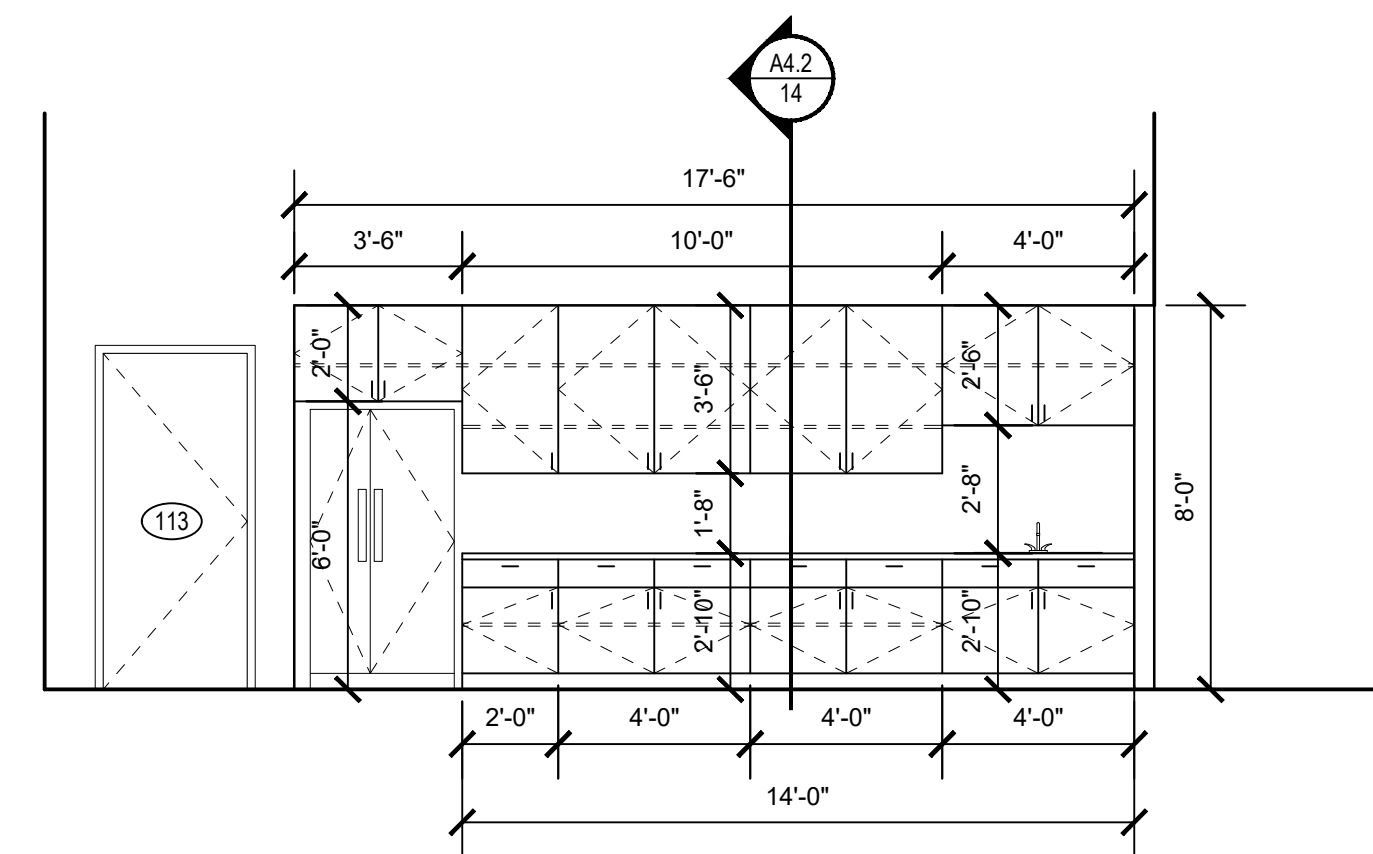
A4.2-05 125 BREAK ROOM INTERIOR ELEVATION

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



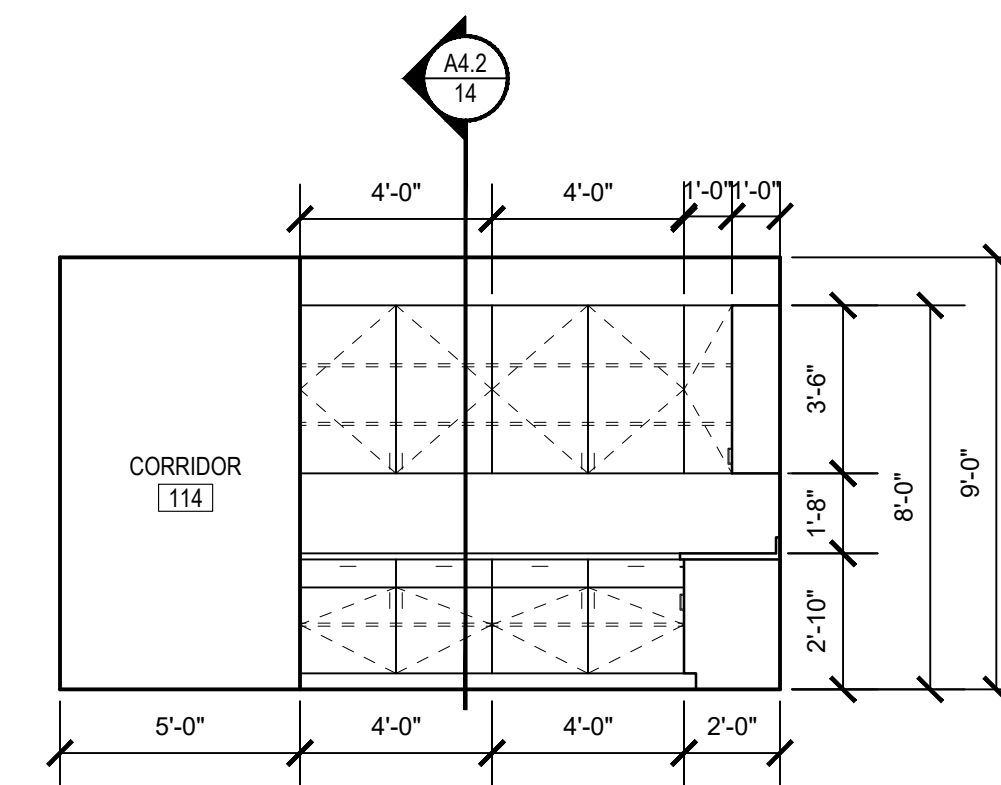
A4.2-06 125 BREAK ROOM INTERIOR ELEVATION

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



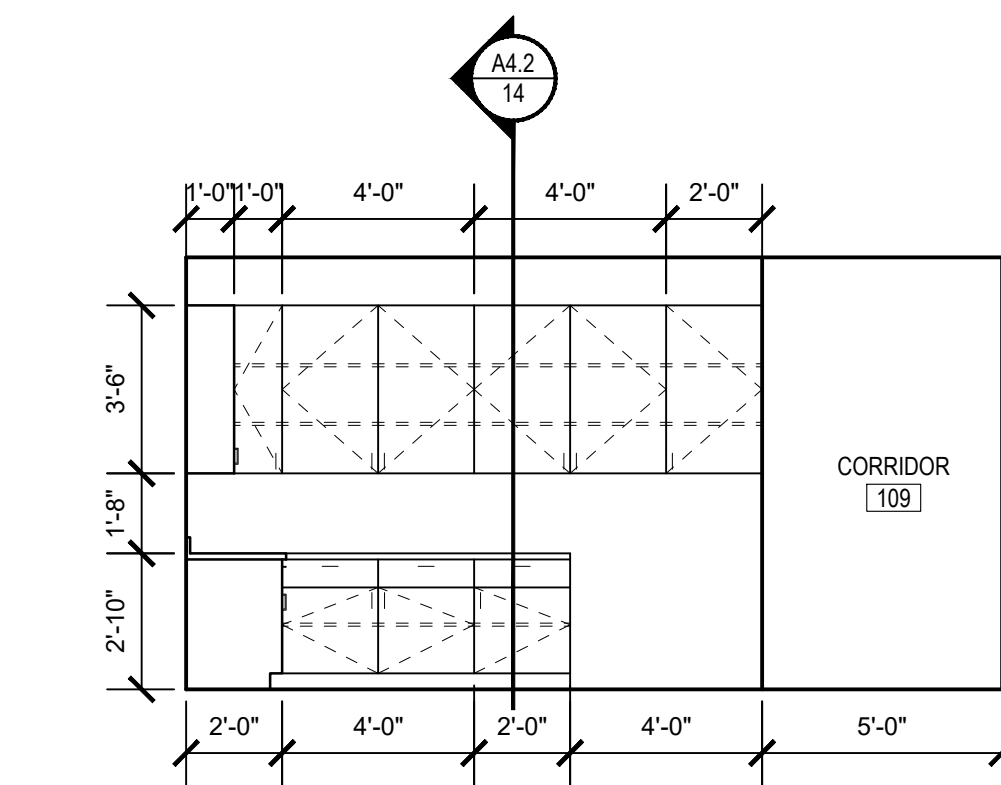
A4.2-07 133 BREAK ROOM INTERIOR ELEVATION

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



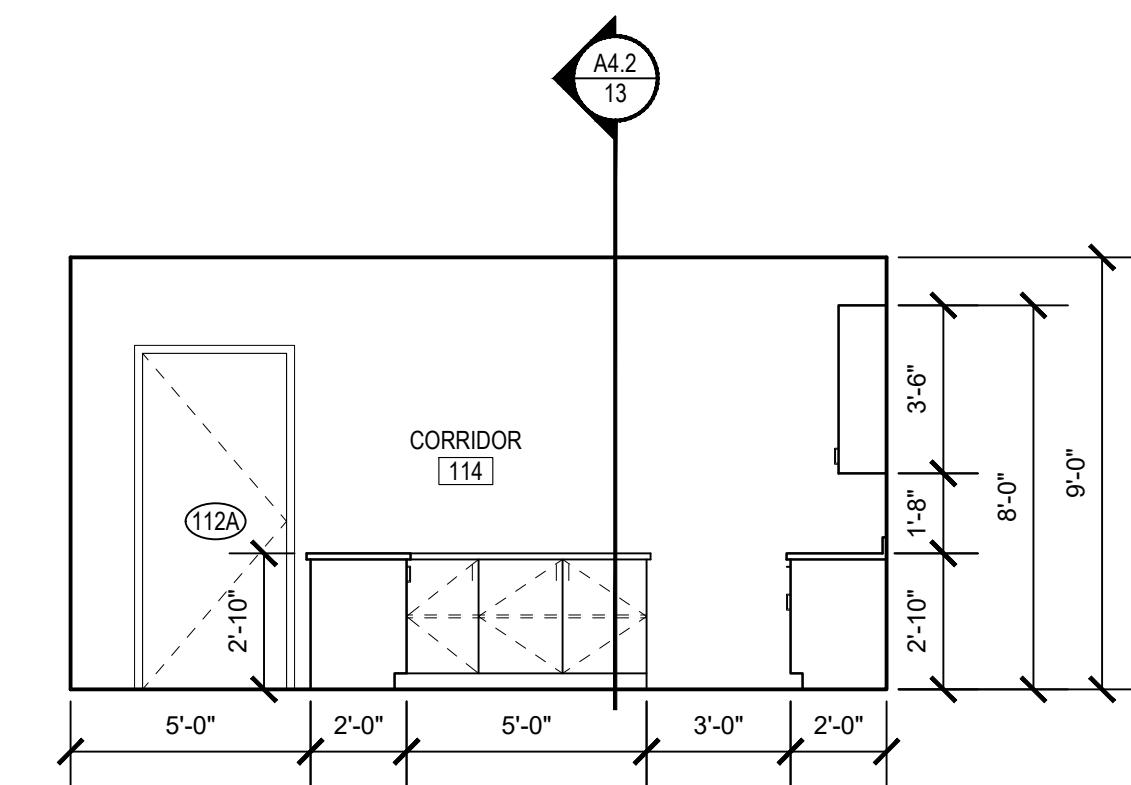
A4.2-08 116 PRINT AREA INTERIOR ELEVATION

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



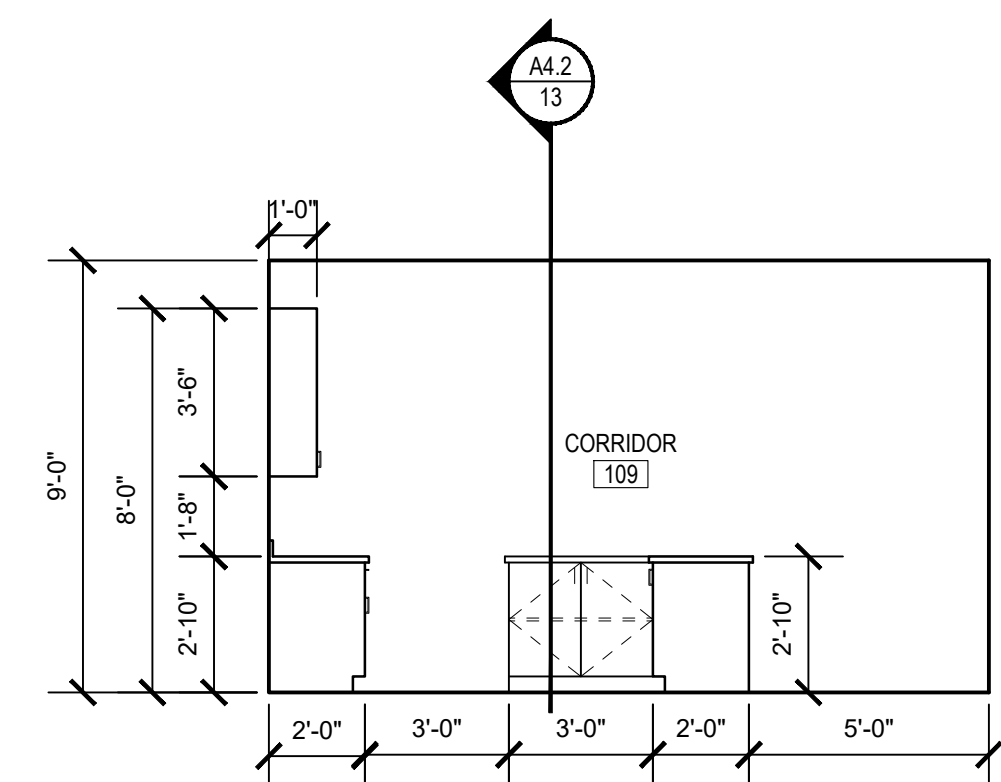
A4.2-09 116 PRINT AREA INTERIOR ELEVATION

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



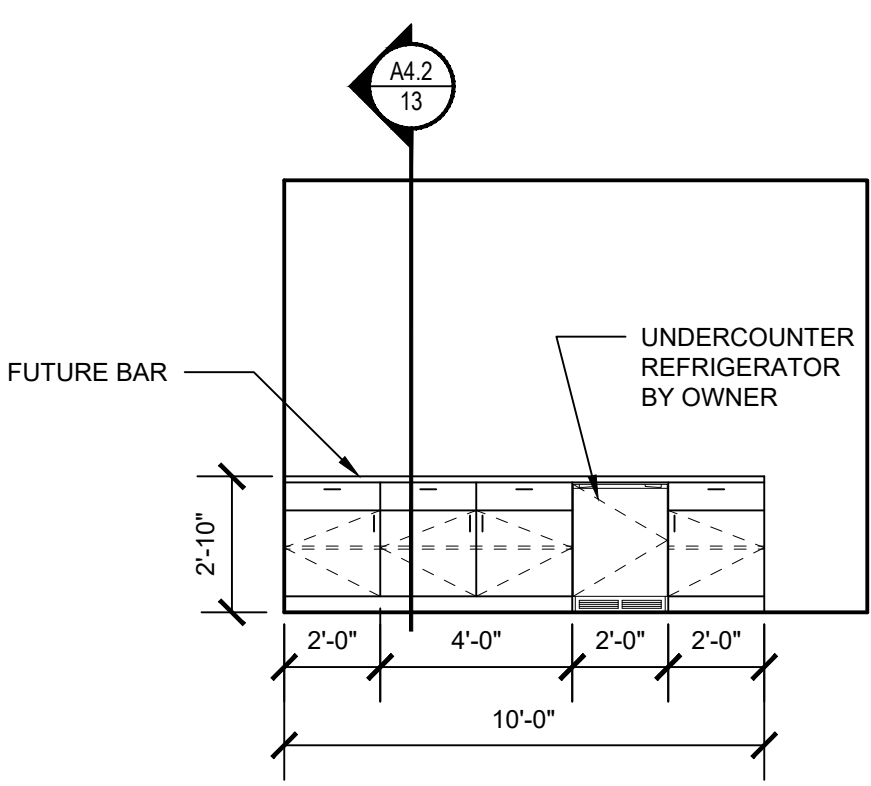
A4.2-10 116 PRINT AREA INTERIOR ELEVATION

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



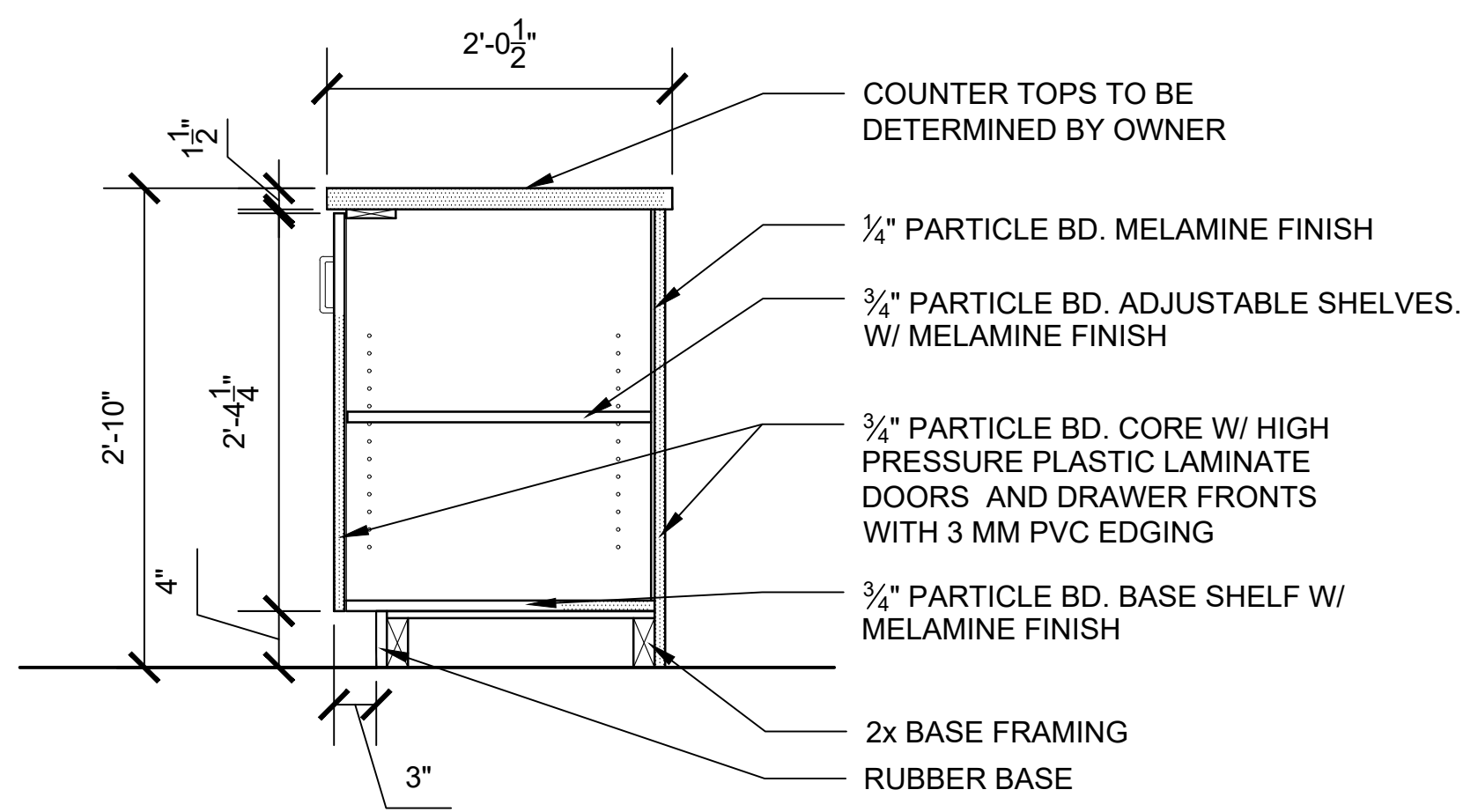
A4.2-11 116 PRINT AREA INTERIOR ELEVATION

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



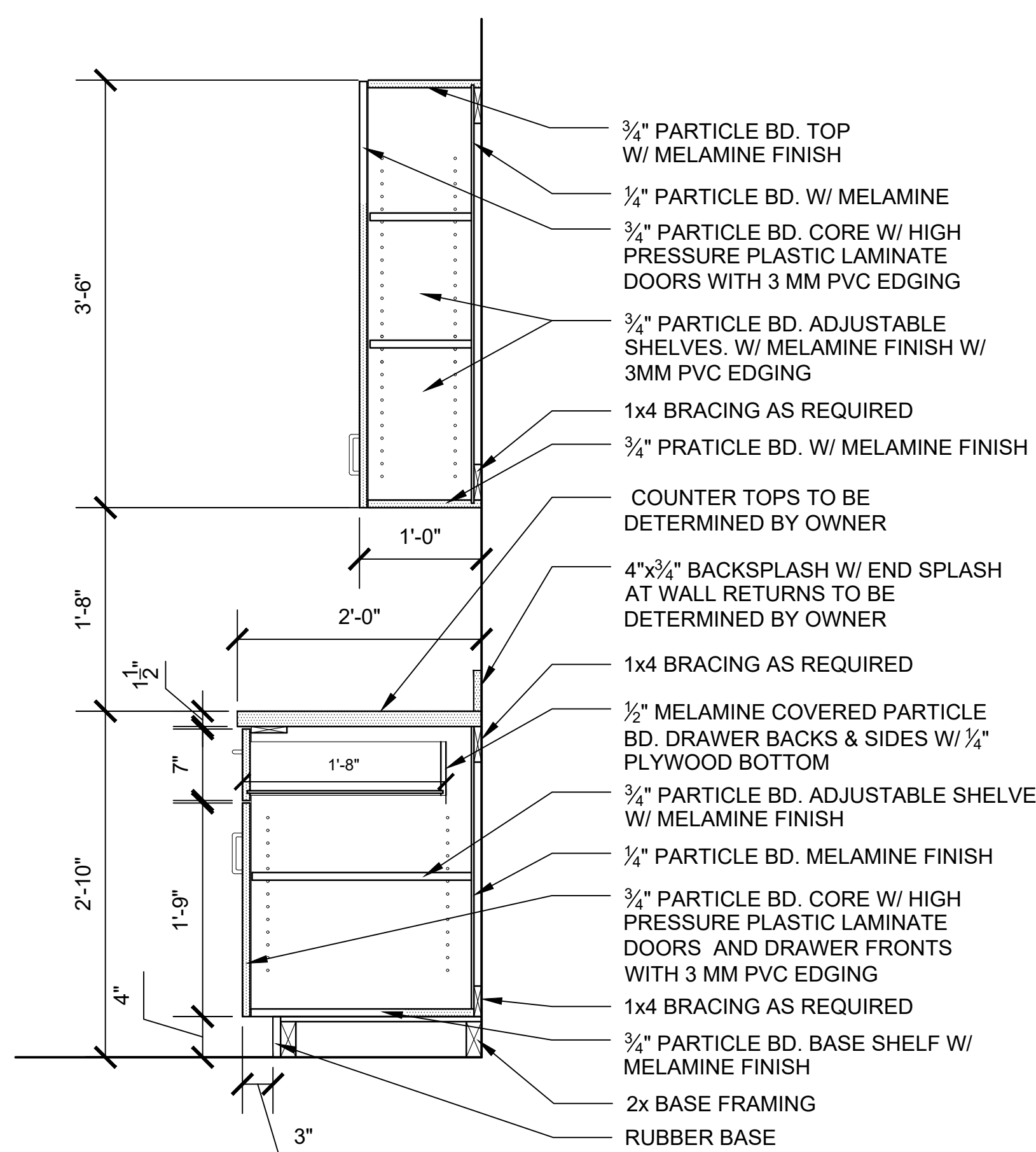
A4.2-12 119 CONFERENCE ROOM INTERIOR ELEVATION

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



A4.2-13 CABINET DETAILS

SCALE: 1" = 1'-0"

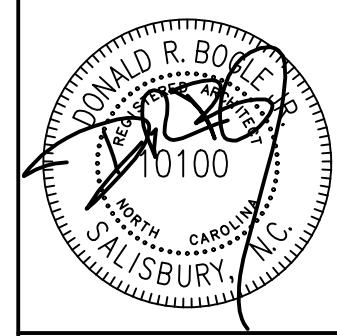


A4.2-14 CABINET DETAILS

SCALE: 1" = 1'-0"

INTERIOR ELEVATIONS & CABINET DETAILS

STOLZ SERVICES OFFICE AND WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



DRAWN BY: MNB
CHECKED BY: DRB
DATE: 04.10.2023
PROJECT #: 2235

SHEET NUMBER
A4.2
OF: 11

ROOM FINISH SCHEDULE

FINISH

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CLG.	CLG. HGT.	REMARKS
101	ENTRY LOBBY	F1	VB	W1	C1	9'-0"	-
102	CORRIDOR	F1	VB	W1	C1	9'-0"	-
103	CORRIDOR	F1	VB	W1	C1	9'-0"	-
104	OFFICE	F1	VB	W1	C1	9'-0"	-
105	OFFICE	F1	VB	W1	C1	9'-0"	-
106	EXECUTIVE OFFICE	F1	VB	W1	C1	9'-0"	-
107	DATA CLOSET	F5	VB	W1	C1	9'-0"	-
108	OFFICE	F1	VB	W1	C1	9'-0"	-
109	CORRIDOR	F1	VB	W1	C1	9'-0"	-
110	CORRIDOR	F1	VB	W1	C1	9'-0"	-
111	OFFICE	F1	VB	W1	C1	9'-0"	-
112	OFFICE	F1	VB	W1	C1	9'-0"	-
113	WAR ROOM	F2	VB	W1	C1	9'-0"	-
114	CORRIDOR	F1	VB	W1	C1	9'-0"	-
115	OFFICE	F1	VB	W1	C1	9'-0"	-
116	PRINT AREA	F1	VB	W1	C1	9'-0"	-
117	OFFICE	F1	VB	W1	C1	9'-0"	-
118	OFFICE	F1	VB	W1	C1	9'-0"	-
119	CONFERENCE ROOM	F1	VB	W1	C1	9'-0"	-
120	OFFICE	F1	VB	W1	C1	9'-0"	-
121	CORRIDOR	F1	VB	W1	C1	9'-0"	-
122	RECEPTION	F1	VB	W1	C1	9'-0"	-
123	OFFICE	F1	VB	W1	C1	9'-0"	-
124	JANITOR'S CLOSET	F5	VB	W1	C2	9'-0"	-
125	BREAK ROOM	F2	VB	W1	C1	9'-0"	-
126	MEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
127	WOMEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
128	STORAGE CLOSET	F2	VB	W1	C1	9'-0"	-
129	JANITOR'S CLOSET	F5	VB	W1	C2	9'-0"	-
130	LOCKER ROOM	F4	TB	W2	C2	9'-0"	-
131	MEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
132	WOMEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
133	BREAK ROOM AREA	F3	VB	W1	C3	STRUC.	-
134	WAREHOUSE	F3	VB	W1	C3	STRUC.	-

FLOORS	WALLS	CEILING
F1	W1	C1
F2	W1	C1
F3	W1	C1
F4	W1	C1
F5	W1	C1
W1	W1	C1
W2	W2	C2
C1	C1	C1
C2	C2	C2
C3	C3	C3

FINISH ABBREVIATIONS

ACT	-ACOUSTICAL CEILING TILE
ALUM	-ALUMINUM
HM	-HOLLOW METAL
PLY	-PLYWOOD
PT	-PAINT
CONC	-SEALED CONCRETE
ST	-STAINED
STRU	-STRUCTURE
VB	-VINYL BASE
WD	-WOOD DOOR
LVT	-LUXURY VINYL TILE
MR	-MOISTURE RESISTANT
TB	-TILE BASE
VCT	-VINYL COMPOSITE TILE

DOOR SCHEDULE

NOT USED: 102, 103, 109, 114, 116, 121 & 133

DOOR NO.	ROOM NAME	Width	Height	Thick	Type	Matl	Finish	FRAME Type	FIRE LABEL	HDWR SET	REMARKS
101A	ENTRY LOBBY	3'-0"	7'-0"	1 3/4"	D1	ALUM	-	F1	ALUM	-	1
101B	ENTRY LOBBY	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	4
104	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
105	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
106A	EXECUTIVE OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
106B	EXECUTIVE OFFICE	3'-0"	7'-0"	1 3/4"	D5	HM	PT	F2	HM	-	1
107	DATA CLOSET	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	3
108	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
110	CORRIDOR	PR 3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	6
111	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
112A	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
112B	OFFICE	3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	7
113	WAR ROOM	3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	7
115	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
117	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
118	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
119	CONFERENCE ROOM	(2) 3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	8
120	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
122	RECEPTION	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
123	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
124	JANITOR'S CLOSET	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	3
125A	BREAK ROOM	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	4
125B	BREAK ROOM	3'-0"	7'-0"	1 3/4"	D5	HM	PT	F2	HM	-	1
126	MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	2
127	WOMEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	2
128	STORAGE CLOSET	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	4
129	JANITOR'S CLOSET	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	4
130	LOCKER ROOM	3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	7
131	MEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	2
132	WOMEN'S RESTROOM	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	2
134A	WAREHOUSE	3'-0"	7'-0"	1 3/4"	D5*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134B	WAREHOUSE	12'-0"	14'-0"	1 3/4"	D6*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134C	WAREHOUSE	3'-0"	7'-0"	1 3/4"	D5*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134D	WAREHOUSE	10'-0"	14'-0"	1 3/4"	D6*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134E	WAREHOUSE	3'-0"	7'-0"	1 3/4"	D5*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134F	WAREHOUSE	10'-0"	14'-0"	1 3/4"	D6*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134G	WAREHOUSE	3'-0"	7'-0"	1 3/4"	D5*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134H	WAREHOUSE	12'-0"	14'-0"	1 3/4"	D6*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB
134I	WAREHOUSE	3'-0"	7'-0"	1 3/4"	D5*	HM	PT	*	HM	-	1 * SUPPLIED BY PEMB

DOOR HARDWARE

- ENTRY LOCKSET
ENTRY LOCKSET W/ LEVER CLOSER
WEATHER STRIPPING
DOOR SWEEP
THRESHOLD-ADA OFFSET
3 BB HINGES
- PRIVACY LOCK
PRIVACY LOCK W/ LEVER
WALL STOP
3 BB HINGES
- ENTRY LOCK
ENTRY LOCK W/ LEVER
WALL STOP/H STOP
3 BB HINGES
- PASSAGE SET
PUSH/PULL PLATE
CLOSER
WEATHER STRIP & SWEEP
KICK PLATE
ADA THRESHOLD
3 BB HINGES
- EXIT ONLY LOCKSET
EXIT ONLY LOCKSET W/ LEVER CLOSER
WEATHER STRIP & SWEEP
3 BB HINGES
- FIRE RATED PAIR
(2) ENTRY LOCKSETS W/ LEVER CLOSER
(6) BB HINGES
INTUMESCENT SEALS
REMOVABLE MULLION W/ STRIKES
- FIRE RATED SINGLE
ENTRY LOCKSET W/ LEVER CLOSER
INTUMESCENT SEALS
3 BB HINGES
- CONF. RM. PAIR
(2) ENTRY LOCKSETS W/ VERTICAL RODS
(2) HEAD STRIKES
(6) BB HINGES
WEATHER STRIPPING
ACONST. ASTRAGAL

DOOR & FRAME NOTES

- MIN. DIMENSION ON LATCH SIDE OF INTERIOR DOORS IS 18" ON PULL SIDE OF DOORS (FRONT APPROACH), 24" ON PULL SIDE OF DOOR (SIDE APPROACH), & 12" ON PUSH SIDE OF DOORS.
- REFER TO PLANS FOR HANDING OF DOORS, TYPICAL.
- PROVIDE ALL NECESSARY INTERIOR TRIM, CASINGS, ETC. AS REQUIRED FOR PROPER INSTALLATION OF DOORS.
- VERIFY THROAT DIMENSION OF HM FRAMES WITH PARTITION TYPE.
- EXTERIOR HM DOORS TO BE INSULATED
- ALL HM DOORS AND FRAMES TO BE PRIMED AND PAINTED.

ROOM FINISH SCHEDULE

FINISH

ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS	CLG.	CLG. HGT.	REMARKS
101	ENTRY LOBBY	F1	VB	W1	C1	9'-0"	-
102	CORRIDOR	F1	VB	W1	C1	9'-0"	-
103	CORRIDOR	F1	VB	W1	C1	9'-0"	-
104	OFFICE	F1	VB	W1	C1	9'-0"	-
105	OFFICE	F1	VB	W1	C1	9'-0"	-
106	EXECUTIVE OFFICE	F1	VB	W1	C1	9'-0"	-
107	DATA CLOSET	F5	VB	W1	C1	9'-0"	-
108	OFFICE	F1	VB	W1	C1	9'-0"	-
109	CORRIDOR	F1	VB	W1	C1	9'-0"	-
110	CORRIDOR	F1	VB	W1	C1	9'-0"	-
111	OFFICE	F1	VB	W1	C1	9'-0"	-
112	OFFICE	F1	VB	W1	C1	9'-0"	-
113	WAR ROOM	F2	VB	W1	C1	9'-0"	-
114	CORRIDOR	F1	VB	W1	C1	9'-0"	-
115	OFFICE	F1	VB	W1	C1	9'-0"	-
116	PRINT AREA	F1	VB	W1	C1	9'-0"	-
117	OFFICE	F1	VB	W1	C1	9'-0"	-
118	OFFICE	F1	VB	W1	C1	9'-0"	-
119	CONFERENCE ROOM	F1	VB	W1	C1	9'-0"	-
120	OFFICE	F1	VB	W1	C1	9'-0"	-
121	CORRIDOR	F1	VB	W1	C1	9'-0"	-
122	RECEPTION	F1	VB	W1	C1	9'-0"	-
123	OFFICE	F1	VB	W1	C1	9'-0"	-
124	JANITOR'S CLOSET	F5	VB	W1	C2	9'-0"	-
125	BREAK ROOM	F2	VB	W1	C1	9'-0"	-
126	MEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
127	WOMEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
128	STORAGE CLOSET	F2	VB	W1	C1	9'-0"	-
129	JANITOR'S CLOSET	F5	VB	W1	C2	9'-0"	-
130	LOCKER ROOM	F4	TB	W2	C2	9'-0"	-
131	MEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
132	WOMEN'S RESTROOM	F4	TB	W2	C2	9'-0"	-
133	BREAK ROOM AREA	F3	VB	W1	C3	STRUC.	-
134	WAREHOUSE	F3	VB	W1	C3	STRUC.	-

FLOORS	WALLS	CEILING
F1	W1	C1
F2	W1	C1
F3	W1	C1
F4	W1	C1
F5	W1	C1
W1	W1	C1
W2	W2	C2
C1	C1	C1
C2	C2	C2
C3	C3	C3

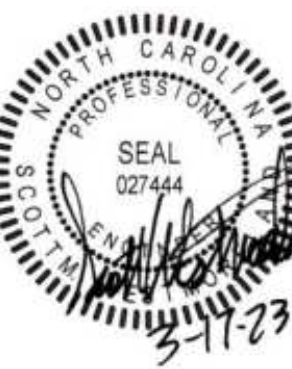
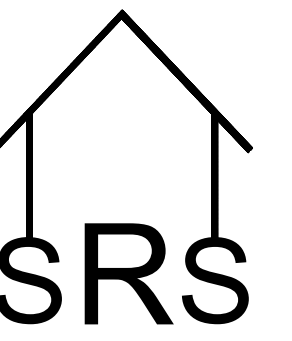
FINISH ABBREVIATIONS

ACT	-ACOUSTICAL CEILING TILE
ALUM	-ALUMINUM
HM	-HOLLOW METAL
PLY	-PLYWOOD
PT	-PAINT
CONC	-SEALED CONCRETE
ST	-STAINED
STRU	-STRUCTURE
VB	-VINYL BASE
WD	-WOOD DOOR
LVT	-LUXURY VINYL TILE
MR	-MOISTURE RESISTANT
TB	-TILE BASE
VCT	-VINYL COMPOSITE TILE

DOOR SCHEDULE

NOT USED: 102, 103, 109, 114, 116, 121 & 133

DOOR NO.	ROOM NAME	Width	Height	Thick	Type	Matl	Finish	FRAME Type	FIRE LABEL	HDWR SET	REMARKS
101A	ENTRY LOBBY	3'-0"	7'-0"	1 3/4"	D1	ALUM	-	F1	ALUM	-	1
101B	ENTRY LOBBY	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	4
104	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
105	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
106A	EXECUTIVE OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
106B	EXECUTIVE OFFICE	3'-0"	7'-0"	1 3/4"	D5	HM	PT	F2	HM	-	1
107	DATA CLOSET	3'-0"	7'-0"	1 3/4"	D3	WD	ST	F2	HM	-	3
108	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
110	CORRIDOR	PR 3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	6
111	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
112A	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
112B	OFFICE	3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	7
113	WAR ROOM	3'-0"	7'-0"	1 3/4"	D4	HM	PT	F2	HM	90 MIN	7
115	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
117	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
118	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
119	CONFERENCE ROOM	(2) 3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	8
120	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
122	RECEPTION	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
123	OFFICE	3'-0"	7'-0"	1 3/4"	D2	WD	ST	F2	HM	-	3
124</											



GENERAL

- THE GENERAL NOTES ARE NOT A SUBSTITUTE OR A REPLACEMENT FOR THE PROJECT SPECIFICATIONS. THESE NOTES ARE INTENDED AS A GUIDE TO THE DESIGN AND/OR CONSTRUCTION REQUIREMENTS ESTABLISHED FOR THIS PROJECT. NO CONTRACTOR SHOULD ATTEMPT TO DESIGN, BID OR CONSTRUCT ANY PORTION OF THE WORK HEREIN WITHOUT CONSULTING THE PROJECT SPECIFICATIONS. IF ANY CONFLICTS OCCUR BETWEEN THE NOTES, PROJECT SPECIFICATIONS AND DETAILS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN UNLESS APPROVED BY THE STRUCTURAL ENGINEER.
- THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE, AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES, SEQUENCE AND SAFETY. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED TEMPORARY BRACING AND SHORING DURING CONSTRUCTION TO MAINTAIN THE STABILITY OF THE STRUCTURE. CONSTRUCTION LOADS SHALL NOT EXCEED THE CAPACITY OF THE INSTALLED STRUCTURE AT ANY TIME.
- THE ENGINEER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK, FOR THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR, OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK, OR THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH ARCHITECTURAL, AND OTHER CONTRACT DRAWINGS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THESE DRAWINGS, DISCREPANCIES, INCLUDING DIMENSIONS, SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT OR DESIGN ENGINEER PRIOR TO PROCEEDING WITH FABRICATION OR CONSTRUCTION.
- ALL THINGS WHICH, IN THE OPINION OF THE CONTRACTOR, APPEAR TO BE DEFICIENCIES, OMISSIONS, CONTRADICTIONS OR AMBIGUITIES IN THE DESIGN DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE DESIGN ENGINEER PRIOR TO FABRICATION OR CONSTRUCTION.
- DETAILS/SECTIONS SHOWN ON DRAWINGS ARE TYPICAL AND MAY APPLY TO LOCATIONS OTHER THAN WHERE SPECIFICALLY MARKED ON THE PLANS. IF SECTIONS OR DETAILS DO NOT REPRESENT ALL REQUIRED CONDITIONS, THE ENGINEER SHALL BE CONTACTED FOR CLARIFICATION BY THE GENERAL CONTRACTOR.
- IF EXISTING CONDITIONS MAKE IT NECESSARY TO REVISE STRUCTURAL DETAILS, NOTIFY DESIGN ENGINEER BEFORE PROCEEDING WITH ANY CHANGES.
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONTRACT DRAWINGS AND LATEST ADDENDA AND SUBMITTING THESE DOCUMENTS TO SUBCONTRACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOP DRAWINGS, FABRICATION OF ANY STRUCTURAL MEMBER AND ERECTION IN THE FIELD.
- THE GENERAL CONTRACTOR SHALL PROTECT EXISTING STRUCTURES AND UTILITIES FROM ALL DAMAGE.
- EQUIPMENT PADS ARE TO BE PROVIDED BY THE MECHANICAL OR ELECTRICAL CONTRACTORS REQUIRING THE PADS.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH OSHA AND OWNER'S REGULATIONS
- ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY CONTRACTOR AT BEGINNING OF PROJECT. ENGINEER SHALL BE NOTIFIED OF ANY DISCREPANCIES BETWEEN DESIGN DRAWINGS AND FIELD CONDITIONS. NO MATERIALS SHALL BE ORDERED OR FABRICATED PRIOR TO VERIFYING ALL STRUCTURAL DETAILS AND PLANS MATCH FIELD CONDITIONS.

FOUNDATION

- ALL FOUNDATION AND SLAB ON GRADE EXCAVATIONS ARE TO FOLLOW RECOMMENDATIONS STATED IN THE REPORT OF GEOTECHNICAL EXPLORATION TO BE PROVIDED BY OWNER.
- ALL EXISTING TOPSOIL, VEGETATION, DISTURBED SOILS AND SURFACE SOILS CONTAINING ORGANIC MATTER OR OTHER DELETERIOUS MATERIALS SHOULD BE STRIPPED FROM WITHIN THE PROPOSED BUILDING AND PAVED AREAS.
- CONTRACTOR SHALL REMOVE AND REPLACE UNACCEPTABLE SOILS IN ACCORDANCE WITH THE GEOTECHNICAL REPORT AND/OR AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER.
- FOUNDATIONS AND SLABS ARE TO BE PLACED ON FIRM UNDISTURBED NATURAL SOIL OR PROPERLY COMPACTED FILL MATERIAL. FILL MATERIAL SHALL BE COMPACTED IN THIN LIFTS, TO AT LEAST 95 PERCENT OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY (ASTM D 698). IN ADDITION, AT LEAST THE UPPER 18 INCHES OF SUBGRADE FILL BENEATH PAVEMENTS AND FLOOR SLABS SHOULD BE COMPACTED TO 100 PERCENT OF THE SAME SPECIFICATION.
- IN ORDER TO VERIFY THAT THE SOILS ENCOUNTERED IN FOOTING EXCAVATIONS ARE SIMILAR TO THOSE ENCOUNTERED IN THE SOIL TEST BORINGS, FOOTING EXCAVATIONS ARE TO BE EXAMINED AND CHECKED WITH A DYNAMIC HAND PENETROMETER BY AN EXPERIENCED ENGINEERING TECHNICIAN WORKING UNDER THE DIRECT SUPERVISION OF THE GEOTECHNICAL ENGINEER.
- FOOTINGS SHOULD BE POURED AS SOON AS POSSIBLE AFTER EXCAVATION. THE FOUNDATION BEARING AREA SHOULD BE LEVEL AND BE FREE OF LOOSE SOIL, PONDED WATER, AND DEBRIS. FOUNDATION CONCRETE SHOULD NOT BE PLACED ON SOILS THAT HAVE BEEN DISTURBED BY SEEPAGE, IF BEARING SOILS ARE SOFTENED BY SURFACE WATER INTRUSION OR EXPOSURE, THE SOFTENED SOILS MUST BE REMOVED FROM THE FOUNDATION EXCAVATION BEFORE IMMEDIATELY PRIOR TO PLACEMENT OF CONCRETE.
- WHERE FOOTING EXCAVATIONS MUST REMAIN OPEN FOR AN EXTENDED PERIOD OR IF RAINFALL BECOMES IMMINENT WHILE BEARING SOILS ARE EXPOSED, A 2" TO 4" THICK MUD MAT OF UNREINFORCED LEAN (f'c=2000psi) CONCRETE SHALL BE PLACED ON THE BEARING SOILS BEFORE PLACEMENT OF THE FOOTING REINFORCING.
- CENTER ALL FOOTINGS UNDER WALLS, COLUMNS OR GRID LINES UNLESS NOTED OTHERWISE.
- RETAINING WALLS TO BE PROPERLY SHORED BEFORE BACKFILLING. HEAVY EQUIPMENT SHALL NOT BE ALLOWED WITHIN 5 FEET OF THESE WALLS. USE MECHANICAL HAND TAMPERS FOR COMPACTING BACKFILL AGAINST WALLS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION OF ALL EXCAVATION SLOPES, WHERE NECESSARY SHEETING AND SHORING OF EXCAVATION SHALL BE PROVIDED WITH ALL REQUIRED TIE BACKS AND BRACING, TO BE DESIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION.
- FOUNDATION DESIGN PARAMETERS (VALUES ASSUMED IF NOT SPECIFICALLY STATED IN SOILS REPORT)

MAXIMUM FOUNDATION NET SOIL BEARING PRESSURE	2000 psf
ACTIVE EARTH PRESSURE (ka = .25)	30 psf/ft
PASSIVE EARTH PRESSURE	300 psf/ft
AT REST EARTH PRESSURE (ko= .42)	30 psf/ft
SOIL FRICTION COEFFICIENT	.35
MODULUS OF SUBGRADE UNDER SLAB ON GRADE (K)	125 PCI
- RETAINING WALLS SHALL HAVE A MINIMUM OF TWO FEET OF FREE DRAINING GRANULAR FILL AGAINST THE BACK OF THE WALL OR SHALL HAVE AN ACCEPTABLE COMBINED GRADE DRAINAGE MAT PLACED AGAINST THE WALL.
- REINFORCING IN ALL CONTINUOUS STRIP FOOTINGS SHALL HAVE CORNER BARS OR DOWELS PROVIDED AT ALL CORNERS AND INTERSECTIONS.

SHOP DRAWINGS

- ALL SHOP DRAWINGS MUST BE REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR PRIOR TO SUBMITTAL.
 - CONTRACTOR SHALL PROVIDE IN HIS SCHEDULE FOR A SHOP DRAWING REVIEW AND RETURN TIME OF A MINIMUM OF FIFTEEN WORKING DAYS IN THE STRUCTURAL ENGINEER'S OFFICE.
 - THE GENERAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO ENGINEER FOR REVIEW OF THE FOLLOWING APPLICABLE ITEMS:
 - ALL STRUCTURAL STEEL INCLUDING MISCELLANEOUS EMBEDMENTS, STEEL FABRICATION SHOP DRAWINGS ARE TO BE SUBMITTED TO STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO FABRICATION. THE STRUCTURAL ENGINEER IS TO REVIEW DRAWINGS FOR COMPLIANCE WITH DESIGN DOCUMENTS. ENGINEER IS TO REVIEW TYPE OF MATERIAL, MEMBER SIZES, AND CONNECTIONS AND RETURN DRAWINGS TO THE STEEL FABRICATOR NOTING ANY DISCREPANCIES. THE STEEL FABRICATOR IS RESPONSIBLE FOR ALL FABRICATION DIMENSIONS.
 - OPEN WEB STEEL JOISTS (*)
 - REINFORCING STEEL.
 - STEEL STAIRS (*)
 - STRUCTURAL METAL DECK.
 - CONCRETE MIX DESIGNS.
 - CONSTRUCTION JOINT LOCATIONS ON STRUCTURAL FLOORS.
 - LIGHT GAUGE METAL STUD AND TRUSSES WITH CALCULATIONS (*)
 - WOOD TRUSSES WITH CALCULATIONS (*)
 - PRECAST CMU UNITS.
 - ANCHOR BOLT SUBMITTAL
 - MECHANICAL EQUIPMENT REQUIRING STRUCTURAL SUPPORT
 - ELEVATOR SHOP DRAWINGS
 - DOCK LEVELER SHOP DRAWINGS
 - CONCRETE CURING MATERIALS
 - MECHANICAL ANCHOR SUBSTITUTIONS
 - ARCHITECTURAL AND STRUCTURAL PRECAST ELEMENTS
- ITEMS MARKED (*) SHALL HAVE SHOP DRAWINGS SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT LOCATION.

SPECIAL INSPECTIONS

- THE OWNER SHALL EMPLOY A QUALIFIED INDEPENDENT TESTING LABORATORY TO PROVIDE SPECIAL INSPECTION SERVICES DURING CONSTRUCTION OF THE PROJECT AS OUTLINED IN CHAPTER 17 OF THE INTERNATIONAL BUILDING CODE.
- THE SPECIAL INSPECTOR SHALL BE A QUALIFIED PERSON WHO SHALL DEMONSTRATE COMPETENCE TO THE SATISFACTION OF THE BUILDING OFFICIAL FOR INSPECTION OF THE PARTICULAR TYPE OF CONSTRUCTION OR OPERATION REQUIRING SPECIAL INSPECTION.
- THE GENERAL CONTRACTOR SHALL SET UP A JOB SITE MEETING TO BE CONDUCTED PRIOR TO THE START OF CONSTRUCTION. PARTIES PRESENT SHALL INCLUDE: GENERAL CONTRACTOR, OWNER, SPECIAL INSPECTORS, ARCHITECT, STRUCTURAL ENGINEER, LOCAL BUILDING INSPECTOR RESPONSIBLE FOR THE JOB AND ANY SUB-CONTRACTOR RESPONSIBLE FOR WORK REQUIRING SPECIAL INSPECTIONS.

CONCRETE

A. GENERAL SPECIFICATIONS

- ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS", (A.C.I. 301-99) AND "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", (A.C.I. 318-02).
- ALL CONCRETE CONSTRUCTION SHALL CONFORM TO THE "SPECIFICATIONS FOR TOLERANCES FOR CONCRETE CONSTRUCTION AND MATERIALS", (ACI 117-90)
- ALL CONCRETE SHALL BE READY-MIXED MEETING THE REQUIREMENTS OF ASTM C-94, "SPECIFICATION FOR READY-MIXED CONCRETE".
- NO WATER SHALL BE ADDED TO THE CONCRETE AT THE JOBSITE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE CONCRETE SUPPLIER TO ENSURE A PUMPABLE AND WORKABLE MIX WITHOUT THE ADDITION OF WATER AT THE JOBSITE.
- CONCRETE PLACEMENT IS TO CONFORM WITH ACI 305-99 HOT WEATHER CONCRETE AND ACI 306-88 COLD WEATHER CONCRETE. MINIMUM TEMPERATURE OF CONCRETE AT TIME OF PLACEMENT AND MAINTAINED DURING CURING IS 55 DEGREES FAHRENHEIT.
- GROUT AT COLUMN BASSES AND AT EXTERIOR WALL BASE SHALL BE NON-METALLIC, NON-SHRINK AND SHALL BE FACTORY PREPARED MIXTURE OF NON AIR-ENTRAINING PORTLAND CEMENT, WELL GRADED, SHARP SILICA SAND AND OTHER ADMIXTURES AS REQUIRED TO PRODUCE A NON SHRINK GROUT. GROUT SHALL CONFORM TO ASTM C-1107 GRADE C.
- FORMWORK SHALL BE DESIGNED AND CONSTRUCTED/INSTALLED IN ACCORDANCE WITH ACI 347, "GUIDE TO FORMWORK FOR CONCRETE"
- MEMBERS NOT TO BE LOADED UNTIL CONCRETE HAS REACHED ITS REQUIRED COMPRESSIVE STRENGTH.
- CONCRETE SHALL BE TESTED IN ACCORDANCE WITH SECTION 5.6 OF ACI 318-02 (EVALUATION AND ACCEPTANCE OF CONCRETE).
- ALL CONCRETE DEFECTS SHALL BE PROPERLY REPAIRED IMMEDIATELY IN ACCORDANCE WITH APPLICABLE REQUIREMENTS OF SECTION 5 OF ACI 301-LATEST EDITION.
- ELEVATED FLOOR SLABS ARE TO HAVE A CONSTANT FLOOR THICKNESS AS SHOWN ON THE DESIGN DRAWINGS. FLOOR THICKNESS IS NOT TO BE ADJUSTED IN THE FIELD TO PROVIDE LEVEL SLAB.
- ELEVATED SLABS ARE TO BE REINFORCED WITH WELDED WIRE FABRIC.
- EXPANSION SLABS ARE NOT TO HAVE SAVED CONTROL JOINTS.
- ADHESIVE ANCHORS SHALL BE HILTI #10-200 ADHESIVE ANCHORING SYSTEM WITH 'HAS' STANDARD RODS BY HILTI FASTENING SYSTEMS OR APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE AS SPECIFIED BY THE MFG. UNLESS NOTED OTHERWISE ON THE ENGINEERING DRAWINGS.
- EXPANSION ANCHORS SHALL BE KWIK BOLT II WEDGE TYPE ANCHORS BY HILTI FASTENING OR APPROVED EQUAL. MINIMUM EMBEDMENT SHALL BE AS SPECIFIED BY THE MANUFACTURER UNLESS NOTED OTHERWISE ON THE ENGINEERING DRAWINGS.

B. MIX DESIGN SPECIFICATIONS

- CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH (f'c) AT 28 DAYS AS FOLLOWS:

COLUMN AND WALL FOOTINGS, EXTERIOR SLAB ON GRADE	f'c = 3000 PSI
INTERIOR SLAB ON GRADE	f'c = 3000 PSI
- CONCRETE IS TO BE NORMAL WEIGHT AND MADE WITH TYPE 1 PORTLAND CEMENT CONFORMING TO ASTM C150 SPECIFICATION, "STANDARD SPECIFICATION FOR PORTLAND CEMENT".
- CLASS F FLYASH IS TO BE LIMITED TO A MAXIMUM OF 20% OF TOTAL CEMENTitious MATERIAL WEIGHT. FLYASH IS NOT PERMITTED FOR INTERIOR FLOOR SLABS.
- NO ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL BE PERMITTED IN ANY MIX DESIGN.
- A MID RANGE WATER REDUCING ADMIXTURE IN CONFORMANCE WITH ASTM C494 TYPE "A" IS TO BE USED TO REDUCE WATER REQUIREMENTS. DOSAGE AMOUNT IS NOT TO EXCEED 6 OZ. PER 100 POUNDS OF CEMENTitious MATERIAL.
- WATER/CEMENT RATIOS SHALL NOT EXCEED 0.6 FOR f'c=3000 PSI CONCRETE NOR 0.5 FOR f'c=4000 PSI CONCRETE
- MAXIMUM SLUMP SHALL BE 5".
- CONCRETE AGGREGATE GRADATION SHALL BE IN ACCORDANCE WITH ASTM C33. "SPECIFICATION FOR CONCRETE AGGREGATE".
 - COARSE AGGREGATE

COARSE AGGREGATE GRADATION SHALL HAVE A MINIMUM SIZE #57 STONE MIX PER ASTM C33. FOR 6" SLABS OR GREATER, LARGER COURSE AGGREGATE MIXES UP TO #467 ARE ACCEPTABLE TO MINIMIZE SHRINKAGE CRACKING.

 - FINE AGGREGATE

FINE AGGREGATE SHALL CONSIST OF NATURAL SAND OR A COMBINATION THEREOF, WITH A FINENESS MODULUS BETWEEN 2.3 AND 3.1.
FINE AGGREGATE CONTENT IS TO BE BETWEEN 35% AND 45% BY WEIGHT OR VOLUME OF THE TOTAL AGGREGATE CONTENT.
- CONCRETE MIX DESIGNS INCLUDING W/C RATIOS AND SLUMPS ARE TO BE PREPARED BY CONCRETE SUPPLIER AND SUBMITTED TO ENGINEER FOR APPROVAL A MINIMUM OF 14 DAYS PRIOR TO CONCRETE WORK COMMENCING. CONCRETE MIX DESIGNS ARE TO BE PROPORTIONED IN ACCORDANCE WITH SECTION 5.3 OR 5.4 OF ACI 318-02.
- ALL EXTERIOR CONCRETE IS TO HAVE 5 PERCENT AIR ENTRAINMENT IN ACCORDANCE WITH ASTM C260.

REINFORCING STEEL

- REINFORCING STEEL SHALL BE HIGH STRENGTH DEFORMED BARS CONFORMING TO ASTM A615, GRADE 60, EXCEPT REINFORCING THAT IS TO BE WELDED SHALL CONFORM TO ASTM A706.
- WELDED WIRE MESH SHALL CONFORM TO ASTM A185 AND SHALL BE LAPPED ONE FULL MESH AT END SPLICES AND BE WIRED TOGETHER. MESH SHALL BE SUPPLIED IN SHEETS, NOT ROLLS AND BE INSTALLED ON CHAIRS.
- REINFORCING STEEL DETAILING, FABRICATION AND PLACING SHALL CONFORM TO THE FOLLOWING:
 - C.R.S.I. "MANUAL OF STANDARD PRACTICE", LATEST EDITION
 - A.C.I. 318-02 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
 - ACI 315-99, "DETAILS AND DETAILING OF CONCRETE REINFORCING".
- BARS SPLICED BY NONCONTACT LAP SPLICES SHALL NOT BE SPACED TRANSVERSELY FARTHER APART THAN ONE-FIFTH THE REQUIRED LAP SPLICE LENGTH, NOR 6".
- REINFORCEMENT PROTECTION SHALL BE:

CONCRETE POURED AGAINST EARTH	-----3"
CONCRETE POURED IN FORMS EXPOSED TO WEATHER OR EARTH	-----2"
COLUMNS AND BEAMS (TIE BARS)	-----1 1/2"
SLABS AND WALLS NOT EXPOSED TO WEATHER	-----3/4"
- REINFORCING BARS SHALL NOT BE WELDED UNLESS OTHERWISE NOTED ON THE STRUCTURAL DRAWINGS. IF WELDING HAS BEEN NOTED ON THE STRUCTURAL DRAWINGS THOSE WELDS SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE-REINFORCING STEEL" (AWS D1.4).

SLABS ON GRADE

- CONCRETE FLOOR SLAB ON GRADE CONSTRUCTION SHALL CONFORM TO ACI 302.1R96 "GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION". FLOOR IS TO BE A SINGLE COURSE, MONOLITHIC SLAB ON GRADE.
- FLOOR SLABS ARE TO BE PLACED OVER COMPACTED EARTH BASE OR CRUSHED STONE BASE, AS NOTED ON THE SLAB PLAN. SUB-GRADE FOR SLAB SHALL BE COMPACTED AND TESTED AND HAVE A MAXIMUM ELEVATION DIFFERENCE OF PLUS OR MINUS 1/10 OF A FOOT.
- CRUSHED STONE BASE IS TO BE TYPE 1, GRADATION C, IN CONFORMANCE WITH ASTM D 1241-68 STANDARD SPECIFICATION FOR MATERIALS FOR SOIL-AGGREGATE SUBBASE, BASE AND SURFACE COURSES.
- IN ORDER TO MINIMIZE PLASTIC SHRINKAGE CRACKS IN THE FLOOR SLAB, CONCRETE IS NOT TO BE PLACED WHEN THE EVAPORATION RATE OF WATER IS GREATER THAN 0.2 POUNDS PER SQUARE FOOT SURFACE AREA PER HOUR UNLESS MEASURES ARE TAKEN TO COMPENSATE FOR THE HIGH RATE OF EVAPORATION AS DESCRIBED IN ACI 305-99. EVAPORATION RATES GREATER THAN 0.2 LB/57/HR TYPICALLY OCCUR WHEN THE AIR TEMPERATURE IS GREATER THAN 90F, RELATIVE HUMIDITY IS 80% OR LESS, AND WIND VELOCITY IS 10 MPH OR GREATER.
- THE FOLLOWING INFORMATION IS TO BE RECORDED BY THE GENERAL CONTRACTOR DURING PLACEMENT OF THE SLAB CONCRETE AND SENT TO THE ENGINEER OF RECORD:

AIR TEMPERATURE	- CONCRETE TEMPERATURE IN ACCORDANCE WITH ASTM C1064.
WEATHER CONDITIONS	- RELATIVE HUMIDITY
WIND SPEED	- EVAPORATIVE RATE OF WATER
CONCRETE SLUMP	
- FLOOR SLAB IS TO HAVE APPROPRIATELY SPACED CONSTRUCTION AND CONTROL JOINTS.
- ISOLATION JOINTS SHALL BE AS SHOWN ON DRAWING AND FILLED WITH POLYURETHANE JOINT FILLER UNDO BY ARCHITECT.
- FLOOR SLAB AREAS ARE TO RECEIVE (2) COATS OF 30% SOLIDS ACRYLIC CURE AND SEAL. (NOX-CRETE CURE & SEAL 300E AS MFG. BY NOX-CRETE, INC.) OR EQUAL CONFORMING TO ASTM C309. APPLICATION IS TO CONFORM TO MANUFACTURER'S SPECIFICATIONS. FIRST COAT IS FOR CURING, SECOND COAT IS FOR SEALING AND DUST PROOFING AFTER BUILDING CONSTRUCTION COMPLETION.

LIGHT GAUGE METAL STUD FRAMING NOTES:

1. MATERIALS:

- ALL STUDS AND OR JOISTS AND ACCESSORIES SHALL BE MADE OF THE THE TYPE, SIZE, GAUGE, AND SPACING SHOWN ON THE DRAWINGS AND SHALL BE MANUFACTURED BY DIETRICH INDUSTRIES OR EQUAL. EXTERIOR WALL STUDS SHALL BE 6" 16 GAGE CSJ AT 16" O.C. UNDO.
 - ALL STUDS, JOISTS, TRACK, AND BRIDGING SHALL BE FORMED FROM STEEL THAT CORRESPONDS TO THE MINIMUM REQUIREMENTS OF ASTM A446 GRADE "A" WITH A MINIMUM YIELD STRENGTH OF 33,000 PSI AND HAVE A G-60 GALVANIZED COATING MEETING THE REQUIREMENTS OF ASTM A 525.
- 2. FABRICATION AND INSTALLATION:**
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR AS REQUIRED FOR ANGULAR FIT AGAINST ABUTTING MEMBERS.
 - ALL FRAMING MEMBERS SHALL BE PLUMBED, ALIGNED, AND LEVELLED.
 - ALL WALL OPENINGS ARE TO HAVE A MINIMUM OF TWO STUD SECTIONS AT JAMBS AND BE CONTINUOUS FROM LATERAL SUPPORT LOCATIONS. ALL WALL OPENINGS ARE TO HAVE DOUBLE JOIST SECTION HEADERS, FRAMED INTO JAMB STUDS. SEE DRAWINGS FOR SIZE AND GAGE.
 - FASTENING OF COMPONENTS SHALL BE WITH TYPE 5-12, SELF TAPPING CORROSION RESISTANT SCREWS EXCEPT FLOOR TRACK IS TO BE FASTENED TO CONCRETE USING HILTI KWIK-CON II+ FASTENERS AND WALL STUDS ARE TO BE CONNECTED TO STRUCTURAL STEEL MEMBERS USING HILTI X-2F (14 SHANK) POWDER ACTUATED FASTENERS.
 - WALL STUDS ARE TO BE INSTALLED SO THE ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO UPPER AND LOWER RUNNER TRACK FLANGES USING TWO 5-12 SCREWS.
 - SPLICES IN FRAMING COMPONENTS OTHER THAN TRACK SHALL NOT BE PERMITTED.
 - TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE.
 - LATERAL BRACING SHALL BE PROVIDED AT MAXIMUM OF 4'-0" INTERVALS CONSISTING OF 16 GAGE COLD ROLLED CHANNELS THROUGH THE WEB HOLES AND 1 1/2" X 1 1/2" 16 GAGE CLIP ANGLE SCREWED TO STUDS USING (2) #10-16 SCREWS PER CONNECTION.
 - BUTT WELD JOINTS IN TRACKS OR SPLICE WITH STUD INSERTS.
 - PROVIDE RELIEF OR SLIDE CLIP CONNECTIONS FOR STUDS EXTENDING FULL HEIGHT BETWEEN FLOORS OR FLOOR AND ROOF TO ALLOW MINIMUM OF 3/4" STRUCTURAL FRAME VERTICAL MOVEMENT BETWEEN LEVELS.
- MASONRY VENEER TO BE ATTACHED TO STUDS USING CORROSION RESISTANT 2 PIECE ADJUSTABLE METAL TIES, 3/16" DIAMETER MINIMUM, LOCATED 16" ON CENTER HORIZONTALLY AND 16" ON CENTER VERTICALLY. TIES TO SCREW TO STUDS. TIES TO EMBED INTO MASONRY 2" MINIMUM.
 - EXTERIOR WALL PLYWOOD SHEATHING SHALL BE 7/16" THICK, APA RATED EXPOSURE 1. ATTACH TO WALL STUDS USING #8 SCREWS 6" ON CENTER AT EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS UNDO. PLYWOOD TO BE COVERED USING 15# FELT PAPER APPLIED HORIZONTALLY WITH UPPER LAYER OVERLAPPING LOWER LAYER NOT LESS THAN 2".
 - METAL STUDS SHALL BE 600S162-43 METAL STUDS AT 16" O.C. UNDO
 - ROOF SHEATHING SHALL BE 5/8" THICK, APA RATED EXPOSURE 1. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION OR STRENGTH AXIS OF THE PANEL ACROSS SUPPORTS WITH PANEL CONTINUOUS OVER TWO OR MORE SUPPORTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES USING GALVANIZED PANEL CLIPS. STAGGER ENDS OF PANELS. STAGGER ENDS OF PANELS. SCREW TO RAFTERS OR WOOD TRUSS TOP CHORDS 6" ON CENTER ALONG SUPPORTED EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS USING #10 SCREWS.

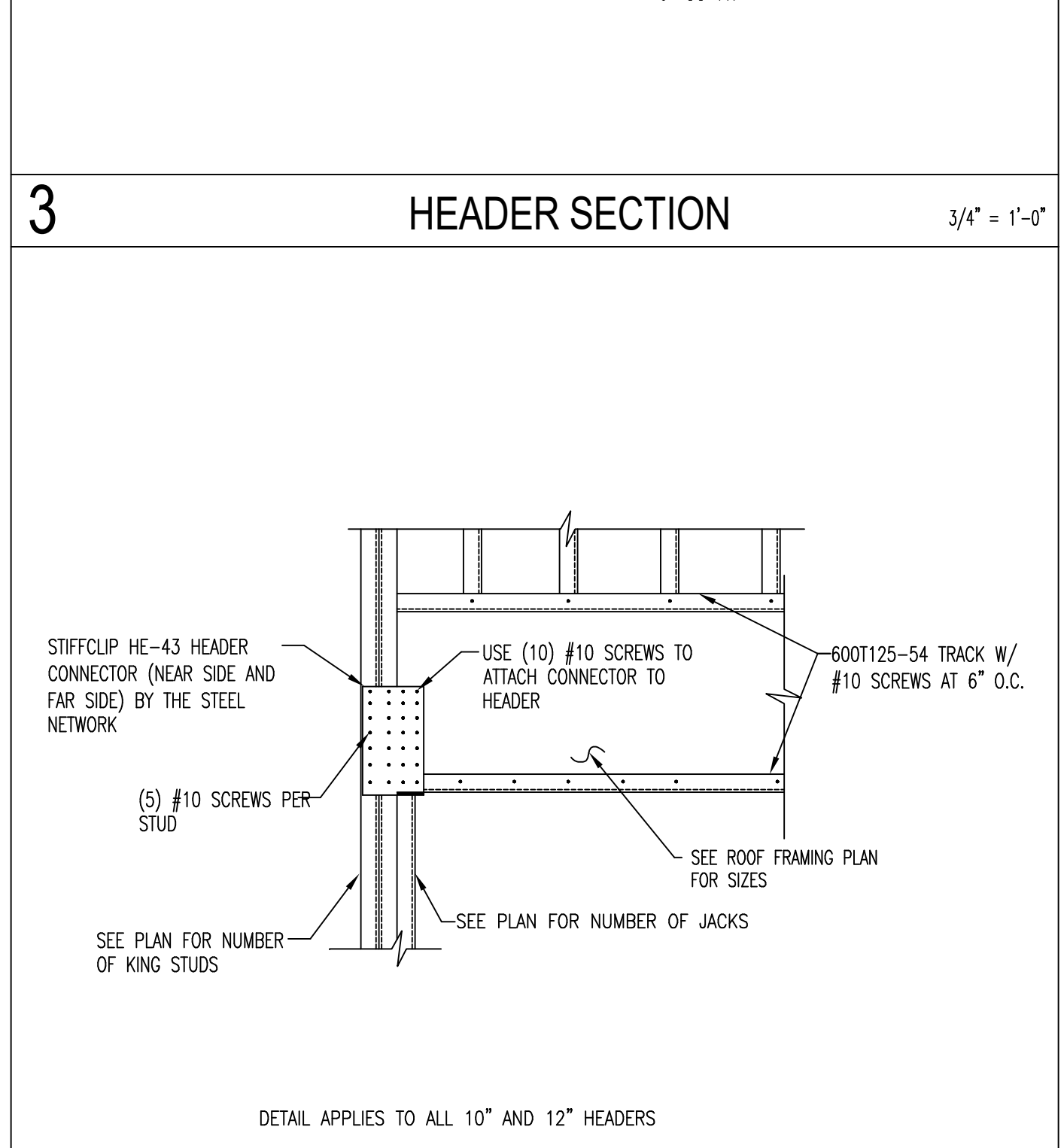
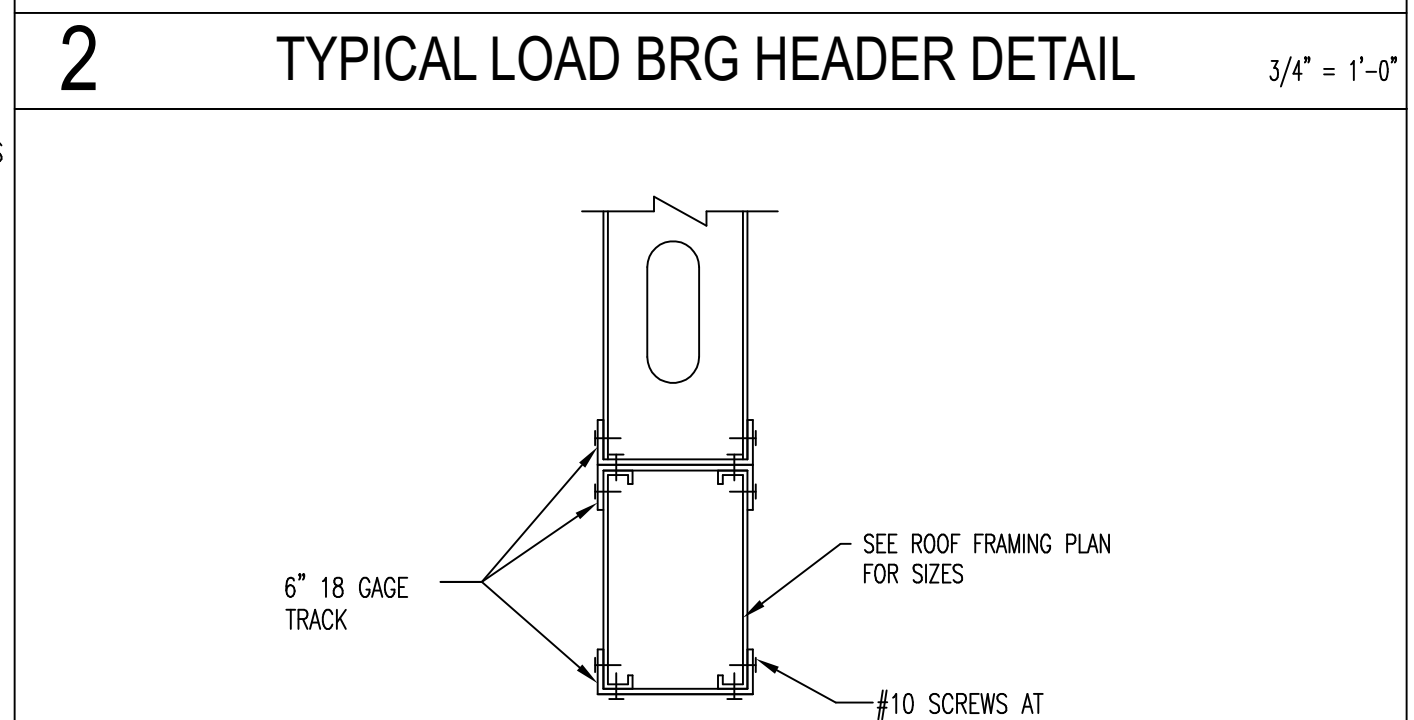
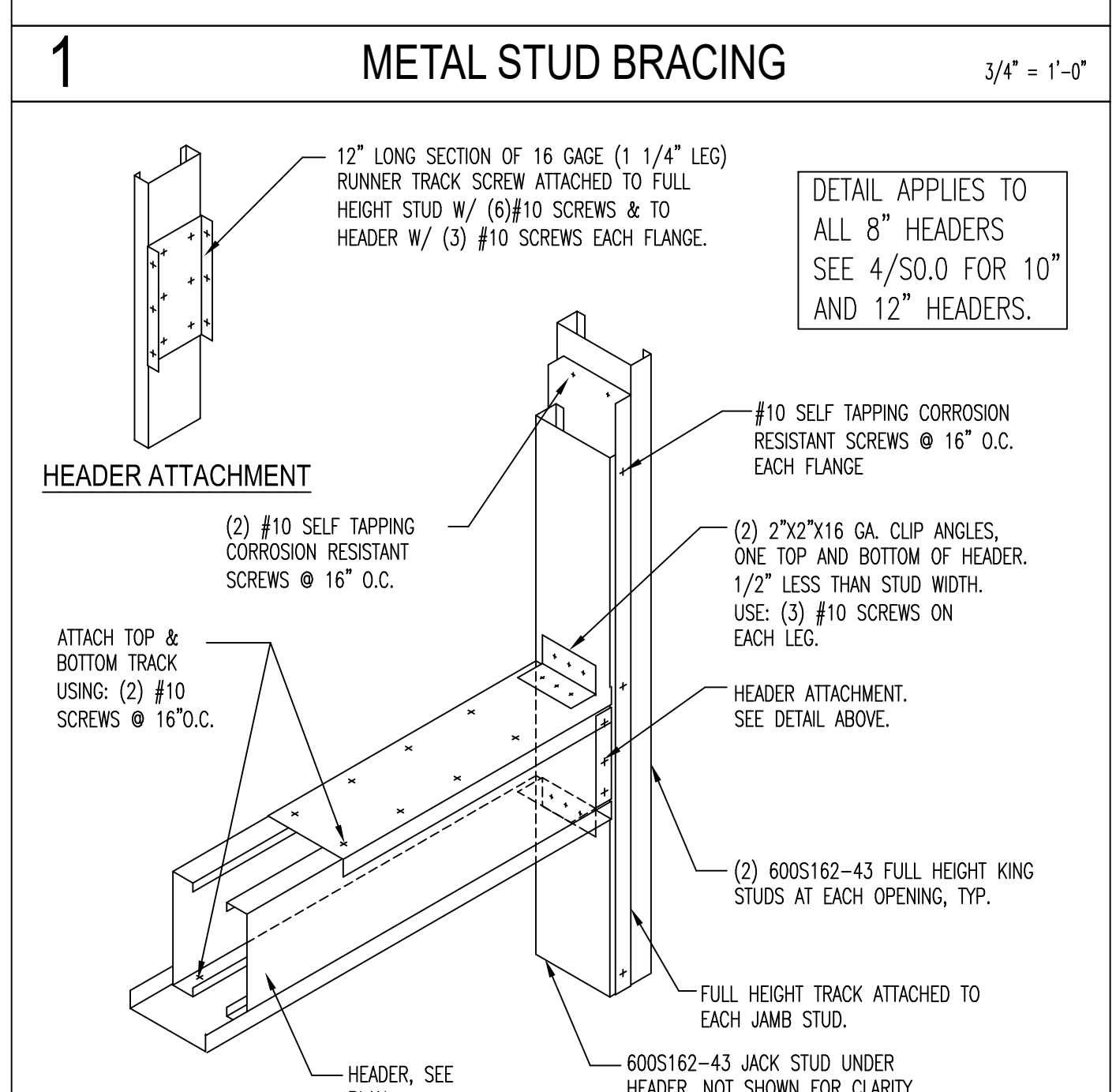
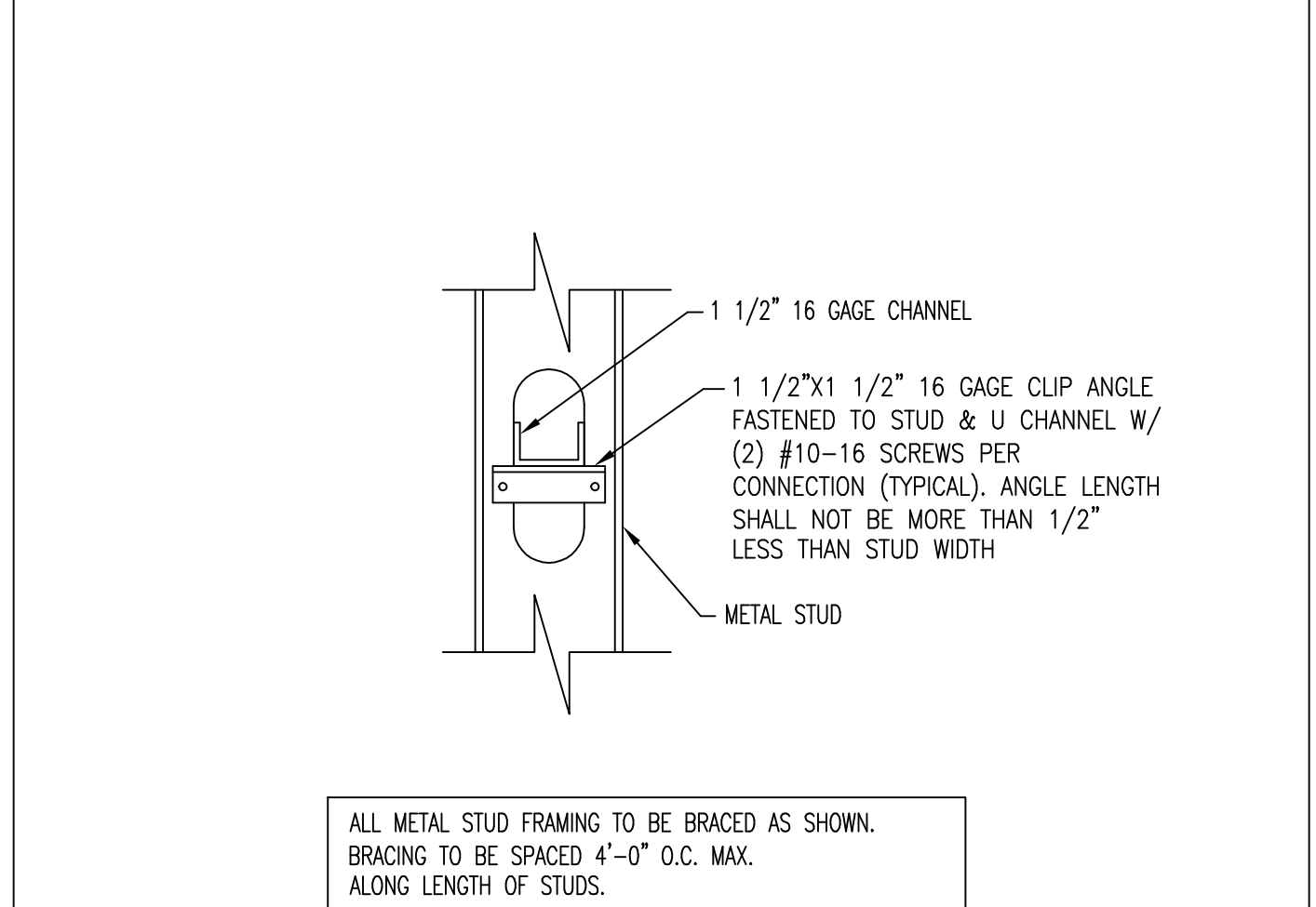
GENERAL WOOD NOTES:

- ROOF SHEATHING SHALL BE 5/8" THICK, APA RATED EXPOSURE 1. PANELS SHALL BE INSTALLED WITH THE LONG DIMENSION OR STRENGTH AXIS OF THE PANEL ACROSS SUPPORTS WITH PANEL CONTINUOUS OVER TWO OR MORE SUPPORTS. ALLOW 1/8" SPACING AT PANEL ENDS AND EDGES USING GALVANIZED PANEL CLIPS. STAGGER ENDS OF PANELS. NAIL TO RAFTERS OR WOOD TRUSS TOP CHORDS 6" ON CENTER ALONG SUPPORTED EDGES AND 12" ON CENTER AT INTERMEDIATE SUPPORTS USING GALVANIZED 8d NAILS.
- HEAVY TIMBER MEMBERS SHALL HAVE MINIMUM ALLOWABLE STRESSES AS LISTED BELOW:

A. Fx, EXTREME FIBER IN BENDING	-----850 psi
B. Fv, HORIZONTAL SHEAR	-----165 psi
C. Fc, COMP. PERPENDICULAR TO GRAIN	-----425 psi
D. Fc, COMP. PARALLEL TO GRAIN	-----525 psi
E. E, MODULUS OF ELASTICITY	-----1,200,000 psi

STRUCTURAL DESIGN

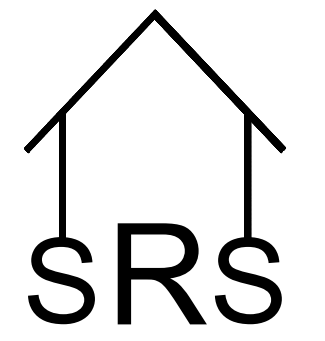
DESIGN LOADS:	
IMPORTANT FACTORS:	
SNOW (Is)	1.0
SEISMIC (Is)	1.0
LIVE LOADS:	
Table 1607.1	
ROOF	20 psf
MEZZANINE	N/A psf
FLOOR	100 psf
GROUND SNOW LOAD:	
Section 1608	10 psf
WIND LOAD:	
Table 1609	
BASIC WIND SPEED	115 mph (ASCE 7-10)
EXPOSURE CATEGORY	SEE PRE-ENGINEERED DWGS
WIND BASE SHEAR (MWFERS)	
Vx =	SEE PRE-ENGINEERED DWGS
RAIN LOAD:	
Section 1611	3.5 Inches/Hour
SEISMIC DESIGN CATEGORY:	A B C D
OCCUPANCY CATEGORY (1604.5)	SEE PRE-ENGINEERED DWGS
SPECTRAL RESPONSE ACCELERATION	SEE PRE-ENGINEERED DWGS
ARCHITECTURAL MECHANICAL COMPONENTS ANCHORED?	
BASIC STRUCTURAL SYSTEM	
BEARING WALL	DUAL W/SPECIAL MOMENT FRAME
BUILDING FRAME	DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL
MOMENT FRAME	INVERTED PENDULUM
SEISMIC BASE SHEAR	SEE PRE-ENGINEERED DWGS
ANALYSIS PROCEDURE	SEE PRE-ENGINEERED DWGS
ARCHITECTURAL MECHANICAL COMPONENTS ANCHORED?	
LATERAL DESIGN CONTROL:	SEE PRE-ENGINEERED DWGS
SOIL BEARING CAPACITIES:	
FIELD TEST (provide copy of test report)	2,000 psf
PRESUMPTIVE BEARING CAPACITY	2,000 psf
PILE SIZE, TYPE, AND CAPACITY	psf



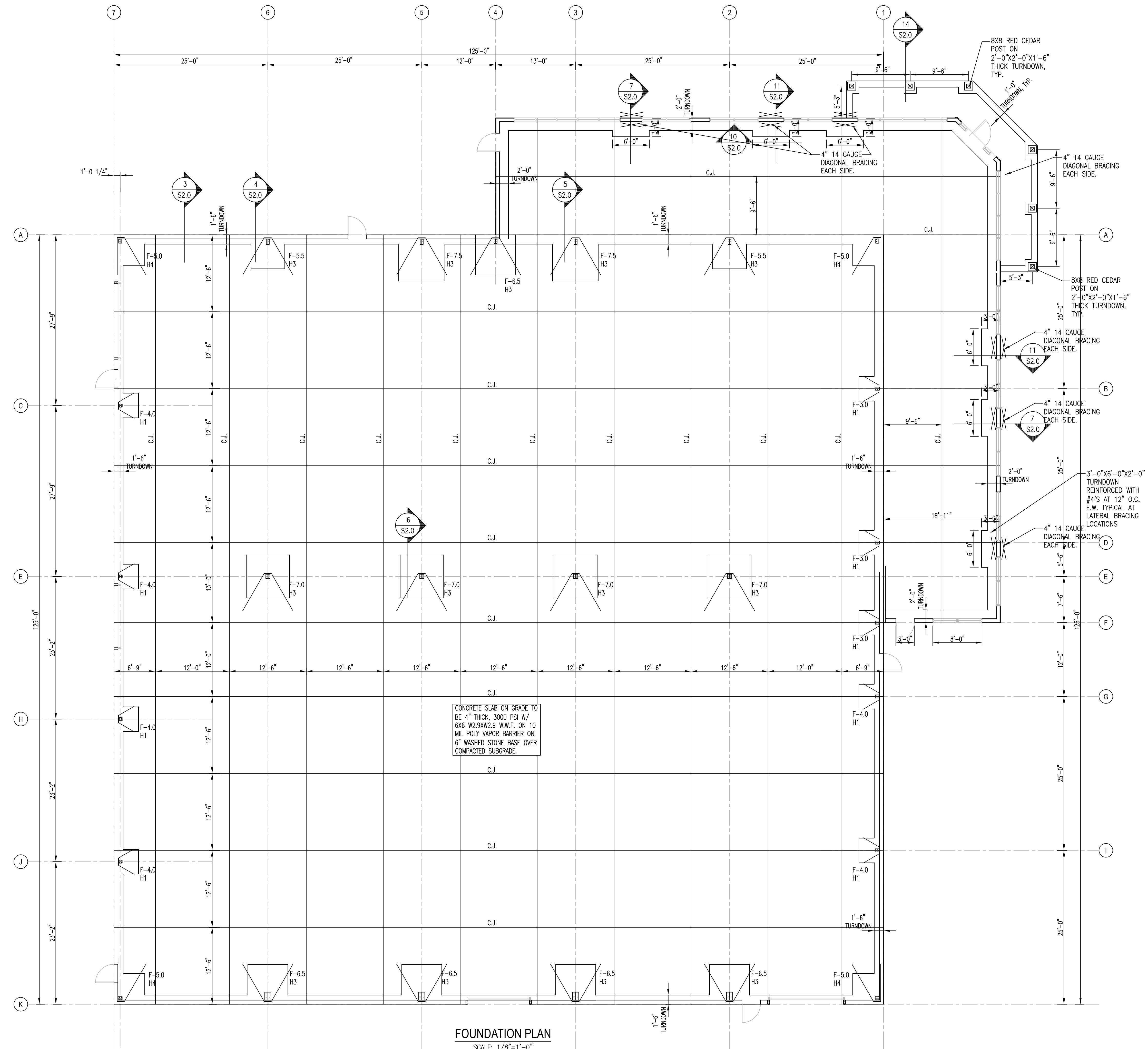
4 LOAD BRG HEADER DETAIL AT LARGE OPNGS 3/4" = 1'-0"

GENERAL NOTES

STOLZ SERVICES
OFFICE AND
WAREHOUSE
2990 BRANTLEY ROAD
KANNAPOLIS, NC 28083



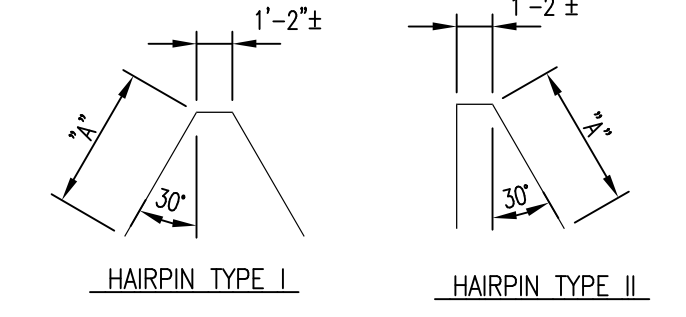
SOLID ROCK STRUCTURAL PLLC
 SCOTT WESTMORELAND, P.E.
 71 GLENN HILL LANE HIDDENITE, N.C. 28636
 PHONE: 704-819-6415
 FAX: 704-585-6529
 SCOTT@SOLIDROCKSTRUCTURAL.COM
 FIRM LICENSE NO. P-0390



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

INDIVIDUAL SQUARE FOOTINGS					
MARK	SIZE	THICKNESS	MAT BARS EACH WAY		
			QUANTITY	BAR SIZE	LENGTH
F-4.0	4'-0" X 4'-0"	24"	5 T&B	#5	3'-6"
F-5.0	5'-0" X 5'-0"	30"	6 T&B	#6	4'-6"
F-5.5	5'-6" X 5'-6"	30"	6 T&B	#6	5'-0"
F-6.0	6'-0" X 6'-0"	30"	7 T&B	#6	5'-6"
F-6.5	6'-6" X 6'-6"	30"	7 T&B	#6	6'-0"
F-7.0	7'-0" X 7'-0"	30"	9 T&B	#6	6'-6"
F-7.5	7'-6" X 7'-6"	30"	10 T&B	#6	7'-0"

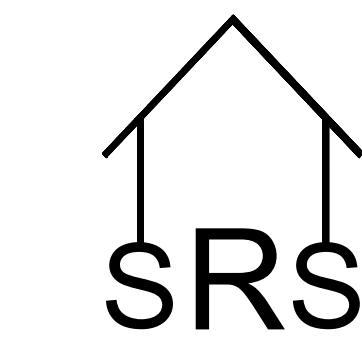
HAIRPIN SCHEDULE				
MARK	TYPE	SIZE	LENGTH "A"	DEG
H1	I	#4	3'-0"	30°
H2	II	#4	3'-0"	30°
H3	I	#7	7'-0"	30°
H4	II	#7	7'-0"	30°



OWNER NOTE
 CONCRETE SLAB, HAIRPINS AND WELDED WIRE FABRIC ARE CRITICAL TO THE STABILITY OF THIS STRUCTURE. AT NO TIME DURING THE LIFE OF THIS BUILDING SHALL THE SLAB BE CUT WITHOUT WRITTEN PERMISSION FROM AN ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.

FOUNDATION PLAN

STOLZ SERVICES OFFICE AND WAREHOUSE
 2990 BRANTLEY ROAD
 KANNAPOLIS, NC 28083



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<p>GREASE ONE END OF DOWEL. APPLY BOND BREAKER AT SURFACE BEFORE ADJACENT SLAB IS POURED. 3/4" x 1'-6" LONG SMOOTH DOWELS AT 1'-0" O.C. CARE SHOULD BE TAKEN IN PLACING WELDED WIRE FABRIC SO THAT THE SAW CUT IN THE CONCRETE WILL NOT PENETRATE REINFORCING. DEPRESS REINFORCING AT CONTROL JOINT LOCATIONS PRIOR TO POURING CONCRETE IF NECESSARY. 1/8" SAW CUT. DEPTH OF CUT IS 1/4 OF THE SLAB THICKNESS. FILL JOINT WITH SEMI-RIGID EPOXY UNO BY ARCHITECT. SECTION AT CONTROL JOINT. NOTE: SAW CUT JOINT SHOULD CURE AS LONG AS POSSIBLE PRIOR TO FILLING JOINT.</p>	<table border="1"> <thead> <tr> <th colspan="4">ANCHOR BOLT</th> </tr> <tr> <th>BOLT SPECIFICATION</th> <th>MATERIAL</th> <th>SIZE</th> <th>1' 1" PROJ.</th> </tr> </thead> <tbody> <tr> <td>ASTM F1554</td> <td>Gr 36</td> <td>1/2"</td> <td>7"</td> </tr> <tr> <td>ASTM F1554</td> <td>Gr 36</td> <td>3/4"</td> <td>8"</td> </tr> </tbody> </table>	ANCHOR BOLT				BOLT SPECIFICATION	MATERIAL	SIZE	1' 1" PROJ.	ASTM F1554	Gr 36	1/2"	7"	ASTM F1554	Gr 36	3/4"	8"	<p>PRE-ENGINEERED WIND GIRT. PRE-ENGINEERED ROOF COLUMN. COLUMN AND BASE PLATE BY OTHERS. HARPIN AROUND ANCHOR BOLTS. FIN. FLR. EL. 3/4" x 1'-0"</p>	<p>PRE-ENGINEERED WIND GIRT. PRE-ENGINEERED ROOF COLUMN. COLUMN AND BASE PLATE BY OTHERS. HARPIN AROUND ANCHOR BOLTS. FIN. FLR. EL. 3/4" x 1'-0"</p>
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<p>1 SLAB CONSTRUCTION/CONTROL JOINT N.T.S.</p> <p>3625162-43 INTERIOR STUDS AT 16" O.C. PRE-ENGINEERED ROOF COLUMN. 3/4" ANCHOR BOLTS. SEE PRE-ENGINEERED BUILDING DRAWINGS FOR LOCATION. COLUMN AND BASE PLATE BY OTHERS. HARPIN AROUND ANCHOR BOLTS. WWF - SEE PLAN. FIN. FLR. EL. SEE FOUNDATION PLAN AND SCHEDULE FOR DIMENSIONS AND REINFORCING. 3/4" x 1'-0"</p>	<p>2 ANCHOR BOLT DETAIL N.T.S.</p> <p>ANCHOR BOLTS. SEE PRE-ENGINEERED BUILDING DRAWINGS FOR LOCATION AND DIAMETER. PRE-ENGINEERED ROOF COLUMN. COLUMN AND BASE PLATE BY OTHERS. WWF - SEE PLAN. FIN. FLR. EL. SEE FOUNDATION PLAN AND SCHEDULE FOR DIMENSIONS AND REINFORCING. 3/4" x 1'-0"</p>	<p>3 SECTION 3/4" x 1'-0"</p> <p>SEE ARCH FOR SIDING INFO. 600S262-43 STUDS AT 16" O.C. 18 GAUGE TRACK CONNECTED USING (2) ROWS OF POWDER ACTUATED FASTENERS @ 16" O.C. 4" THICK, 3000 PSI CONCRETE SLAB ON GRADE. WWF, SEE PLAN FOR SIZE. (3) #4 CONT. #4 @ 24" OC. 3/4" x 1'-0"</p>	<p>4 SECTION 3/4" x 1'-0"</p> <p>16 GAUGE BLOCKING BETWEEN EVERY OTHER TRUSS. MATCH TRUSS DEPTH. SCREW TO TRACK WITH #10 SCREWS AT 6" O.C. 5/8" APA RATED SHEATHING. PRE-ENGINEERED LIGHT GAUGE TRUSSES AT 16" O.C. ALIGN TRUSSES DIRECTLY OVER JOISTS BELOW. SIMSON STRONG TIE MODEL NUMBER S/H2 AT EACH TRUSS. SEE ARCH FOR SIDING INFO. 16 GAUGE CONT TRACK. 600S262-43 STUDS AT 16" O.C. SEE 8A/S2.0 FOR ALTERNATE DETAIL NOT REQUIRING TRUSSES TO ALIGN WITH STUDS. 3/4" x 1'-0"</p>																
<p>5 SECTION 3/4" x 1'-0"</p> <p>5/8" APA RATED SHEATHING. 16 GAUGE BLOCKING BETWEEN EVERY OTHER TRUSS. MATCH TRUSS DEPTH. SCREW TO TRACK WITH #10 SCREWS AT 6" O.C. SIMSON STRONG TIE MODEL NUMBER S/H2 AT EACH TRUSS. CONT L6X4X5/16 LH. TRUSSES NOT REQUIRED TO ALIGN WITH STUDS. 18 GAUGE CONT TRACK CONNECT TO STEEL ANGLE WITH (2) ROWS OF POWDER ACTUATED FASTENERS AT 16" O.C. SEE ARCH FOR SIDING INFO. 600S262-43 STUDS AT 16" O.C. 3/4" x 1'-0"</p>	<p>6 SECTION 3/4" x 1'-0"</p> <p>5/8" APA RATED SHEATHING. PRE-ENGINEERED LIGHT GAUGE TRUSSES. SIMSON STRONG TIE MODEL NUMBER S/H2 AT EACH TRUSS. SEE 8A/S2.0 OR 8A/S2.0 FOR DETAILS NOT SHOWN. 1/2" HARDBOARD SHEATHING. 600S262-43 STUDS AT 16" O.C. BOX HEADER. SEE PLAN FOR SIZE. EL = 8'-0" 3/4" x 1'-0"</p>	<p>7 SECTION 3/4" x 1'-0"</p> <p>16 GAUGE BLOCKING BETWEEN EVERY OTHER TRUSS. MATCH TRUSS DEPTH. SCREW TO TRACK WITH #10 SCREWS AT 6" O.C. 4" 14 GAUGE DIAGONAL BRACING EACH SIDE. 3/4" x 1'-0"</p>	<p>8 SECTION 3/4" x 1'-0"</p> <p>600S262-43 STUDS AT 16" O.C. 4" 14 GAUGE DIAGONAL BRACING EACH SIDE. MC6X12 X 12" LONG CONNECTED WITH (2) 5/8" EPOXY BOLTS EMBEDDED MIN. 6" USING HILTI HIT-HY200 ADHESIVE ANCHORING SYSTEM. #4'S AT 12" O.C. AT 6'-0" X 3'-0" TURNDOWN. 6'-0" X 3'-0" TURNDOWN AT BRACE CONNECTION LOCATION. 3/4" x 1'-0"</p>																
<p>8A SECTION 3/4" x 1'-0"</p> <p>EL = 24'-0" EL = 20'-0" TRUSS MFG TO PROVIDE TRUSS CONNECTION AND COORDINATE WITH METAL BUILDING MFG. PRE-ENGINEERED LIGHT GAUGE TRUSS. PRE-ENGINEERED RIGID FRAME. PRE-ENGINEERED FRAMING. SHAPE AND SIZE DETERMINED BY MFG. TRUSS MFG TO PROVIDE TRUSS CONNECTION AND COORDINATE WITH METAL BUILDING MFG. 3/4" x 1'-0"</p>	<p>9 SECTION 3/4" x 1'-0"</p> <p>16 GAUGE BLOCKING BETWEEN EVERY OTHER TRUSS. MATCH TRUSS DEPTH. SCREW TO TRACK WITH #10 SCREWS AT 6" O.C. SIMSON STRONG TIE MODEL NUMBER S/H2 AT EACH TRUSS. SEE ARCH FOR SIDING INFO. PRE-ENGINEERED LIGHT GAUGE TRUSSES AT 16" O.C. ALIGN TRUSSES DIRECTLY OVER JOISTS BELOW. 8X8 HEVY TIMBER BEAM. POWDER COATED FLAT BLACK BRACKET MADE WITH 1/4" STEEL. CONNECTED TO BEAM AND COLUMN USING MIN. (4) 3/8" THROUGH BOLTS. CONCEALED CONNECTION CAN BE SUBSTITUTED FOR EXPOSED CONNECTION. PROVIDE INFO TO SRS FOR REVIEW. 8X8 HEVY TIMBER COLUMN. 3/4" x 1'-0"</p>	<p>10 SECTION 3/4" x 1'-0"</p> <p>16 GAUGE BLOCKING BETWEEN EVERY OTHER TRUSS. MATCH TRUSS DEPTH. SCREW TO TRACK WITH #10 SCREWS AT 6" O.C. 5/8" APA RATED SHEATHING. PRE-ENGINEERED LIGHT GAUGE TRUSSES AT 16" O.C. ALIGN TRUSSES DIRECTLY OVER JOISTS BELOW. SIMSON STRONG TIE MODEL NUMBER S/H2 AT EACH TRUSS. SEE ARCH FOR SIDING INFO. 16 GAUGE CONT TRACK. 600S262-43 STUDS AT 16" O.C. SEE 8A/S2.0 FOR ALTERNATE DETAIL NOT REQUIRING TRUSSES TO ALIGN WITH STUDS. 16 GAUGE CONT TRACK. 600S262-43 STUDS AT 16" O.C. 3/4" x 1'-0"</p>	<p>11 SECTION 3/4" x 1'-0"</p> <p>8X8 WESTERN RED CEDAR POST. 1X4 WESTERN RED CEDAR TRIM. PRE-CAST CAP. COAT POST WITH BITUMINOUS PAINT WHERE CONCEALED. 4" CMU. STONE VENEER. STAND OFF BASE AT EACH POST. 4" 3000 PSI 5% AIR ENTRAINED CONCRETE SLAB ON GRADE WITH 6X6W2.1W2.1 WWF. (3) #5'S E.W. 3/4" x 1'-0"</p>																

DETAILS

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