

2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS

Name of Project: LAKESIDE SELF STORAGE Address: 5556 NC 210 N ANGER, NC Zip Code 27501

LEAD DESIGN PROFESSIONAL G. CLEVELAND PATE, PLLC ARCHITECTURE-PLANNING Designer FIRM NAME LICENSE # TELEPHONE # EMAIL

2018 NC BUILDING CODE New Building Addition Renovation

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14 Alteration: Level 1 Level II Level III

CONSTRUCTED: (date) NA CURRENT OCCUPANCIES (CH.3): NA RENOVATED: (date) NA PROPOSED OCCUPANCIES (CH.3): SI SELF STORAGE

RISK CATEGORY (TABLE 1604.5): CURRENT PROPOSED I II III IV

BASIC BUILDING DATA

Construction Type: I-A II-A III-A IV V-A I-B II-B III-B Construction Class: I II III IV V Flood Hazard Area: No Yes

Table with 4 columns: FLOOR, EXISTING (SQ FT), NEW (SQ FT), SUB-TOTAL. Row 1: FIRST, 6,000, 6,000. Row 2: TOTAL, 6,000.

ALLOWABLE AREA PRIMARY OCCUPANCY CLASSIFICATION

Assembly Business Educational Factory Hazardous Institutional Mercantile Residential Storage Utility and Miscellaneous

ACCESSORY OCCUPANCY CLASSIFICATIONS: NA

INCIDENTAL USES (TABLE 509): NA

SPECIAL USES (CHAPTER 4-LIST CODE SECTIONS): NA

SPECIAL PROVISIONS: (CHAPTER 5-LIST CODE SECTIONS):

MIXED OCCUPANCIES: No Yes Separation Hr. Exception

Incidental Use Separation (508.2.5) This separation is not exempt as a Non-Separated Use (see exception) Non-Separated Use (508.3) Separated Use (508.4)

Table with 4 columns: Story No., Description And Use, (A) Bldg. Area Per Story (Actual), (B) 506.2 d Area, (C) Area For Frontage Increase, (D) Allowable Floor Area Unlim. Area. Row 1: 1, SI, 6,000, 17,500, NA, 12,000MAX.

1 Frontage area increases from Section 506.2 are computed thus: a. Perimeter which fronts a public way or open space having 20 feet min. width = ft.(F) b. Total Building Perimeter = ft.(P) c. Ratio (F/P) = (F/P) d. W=Minimum with of public way = ft.(W) e. Percent of frontage increase Iy = 100(F/P-0.25) x W/30 = % (X)

Table with 4 columns: ALLOWABLE, SHOWN ON PLANS, CODE REFERENCE. Row 1: building ht. in feet (table 504.3)2 55' 10'-4" + 1 Row 2: building ht. in stories (table 504.4)3 2 1

1. Provide code reference if the "Shown on Plans" quantity is not based on Table 504.3 or 504.4 2. The maximum height of th air traffic control towers must comply with Table 412.3.1 3. The maximum height of open parking garages must comply with Table 406.5.4

FIRE PROTECTION REQUIREMENTS THIS SECTION REQUIRED FOR ALL PROJECTS

Table with 7 columns: BUILDING ELEMENT, FIRE SEPARATION DISTANCE (FEET), RATING, DETAIL # AND SHEET, DESIGN # FOR RATED ASSEM, DESIGN # FOR RATED JOINTS, DESIGN # FOR RATED ADJTS. Rows include Structural Frame, BEARING WALLS (EXT), INTERIOR BEARING WALLS, NON BEARING WALLS/PARTIC, Interior Non Bearing Walls, Floor construction, Floor ceiling assembly, Columns supporting floors, roof construction including supporting beams and joists, Roof Ceiling Assembly, Shaft Enclosures-Exit, Shaft Enclosures-other, Corridor Separation, Occupancy/Fire barrier sep., Party/Fire wall separation, smoke barrier separation, Smoke Partition, Tenant Dwelling Unit/ Sleeping Unit separation, Incidental Use Separation.

Table with 4 columns: FIRE SEPARATION DISTANCE (FT) FROM PROPERTY LINE, DEGREE OF OPENINGS PROTECTION(705.B), ALLOWABLE AREA (X), ACTUAL SHOWN ON PLANS (X). Row 1: NA-EXCEEDS DISTANCE REQ. FOR ALL PROP. LINES. SEE CIVIL.

LIFE SAFETY SYSTEM REQUIREMENTS

Emergency Lighting No Yes Exit Signs: No Yes Fire Alarms: No Yes Smoke Detection Systems: No Yes Carbon Monoxide Detection No Yes Panic Hardware: No Yes

LIFE SAFETY PLAN REQUIREMENTS SEE LIFE SAFETY PLANS (ON SMALLER BLDGS INCORP INTO FLOOR PLAN)

Fire and/or smoke rated wall locations (Chapter 7) NA Assumed and real property line locations NA SEE SITE/CIVL Exterior wall opening area with respect to distance to assumed property lines (705.8) NA

ACCESSIBLE DWELLING UNITS NA (SECTION 1107)

Table with 7 columns: Total Units, Access. Req., Access. Units Provided, Type A Units Req., Type A Units Provided, Type B Units Req., Type B Units Provided. Row 1: NA, NA, NA, NA, NA, NA, NA.

ACCESSIBLE PARKING (SECTION 1106)

Table with 5 columns: LOT OR PARKING AREA, TOTAL # OF PARK. SPACES, # OF ACCESSIBLE SPACES, TOTAL # ACCESSIBLE PROVIDED. Rows include NORTH EAST, SOUTH EAST, SOUTH WEST, NORTH WEST, Interior Bearing Walls, NON BEARING WALLS/PARTIC.

PLUMBING FIXTURE REQUIREMENTS

Table with 10 columns: USE, WATER CLOSET, URINALS, LAVS, SHOWERS & TUBS, DRINKING FOUNTAINS, NOT REQ. Rows include SELF STOR. EMPLOYEE TOILET PROVIDED BLDG. A, SPACE, EXISTING, NEW, REQUIRED, TOTAL REQ., TOTAL PROV.

SPECIAL APPROVALS

Special Approval: (Local jurisdiction, Department of Insurance, OSC, DPI, DHHS, ICC, etc. describe below) SEE STRUCTURAL FOR SPECIAL INSPECTIONS FORM

STRUCTURAL DESIGN (SEE STRUCTURAL FOR ADDITIONAL DATA)

DESIGN LOADS Importance Factor: Wind (W), Snow(S), Seismic(s), Live Loads: Roof, Mezzanine, Floor, Floor, Ground Snow Load: 15 PSF, Wind Load: Basic Wind Speed, Exposure Category, Wind Base Shears, Seismic Design Category: A, B, C, D, Provide the following Seismic Design Parameters: Occupancy Category, Special Response Acceleration, Site Classification, Data Source: Field Test, Presumptive, Historical Data, Basic Structural System (check one): Bearing Wall, Building Frame, Moment Frame, Inverted Pendulum, Seismic base shear: Vs=78.3KIPS, Vm=78.3KIPS, Analysis Procedure: Simplified, Equiv. Lateral force, Dynamic, Architectural, Mechanical, Components Anchored? Yes, No, Lateral Design Control: Earthquake, Wind, Soil Bearing Capacities: Field Test, Presumptive Bearing Capacity, Pile Size, type and capacity, Special Inspections Required: Yes, No, POSSIBLY TBD

ENERGY SUMMARY

ENERGY REQUIREMENTS:

The following data shall be considered minimum and any special attribute required to meet the energy code shall also be provided. Each Designer shall furnish the required portions of the project information for the plan data sheet.

Existing building envelope complies with code: No Yes (This is a new building) Exempt Building: No Yes (Provide code or statutory reference). CLIMATE ZONE: 3A 4 4A 5 METHOD OF COMPLIANCE: Prescriptive (Energy Code) Performance (Energy Code) Prescriptive (ASHRAE 90.1) Performance (ASHRAE 90.1)

THERMAL ENVELOPE

ROOF/CEILING ASSEMBLY (EACH ASSEMBLY) Description of Assembly LIGHT FRAMING AND METAL ROOFING 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 STUD BEARING, SHEATHING, BRICK, & MTL SIDING

U-Value of total assembly, R-Value of insulation, Openings (windows or doors with glazing), U-Value of assembly, Solar Heat Gain Coeff., Projection factor, Low-e required, if applicable, Door R-Values.

WALLS BELOW GRADE (EACH ASSEMBLY) SEE SECTIONS

U-Value of total assembly, R-Value of insulation, FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY) Description of assembly NA

FLOORS OVER UNCONDITIONED SPACE (EACH ASSEMBLY) Description of assembly NA U-Value of total assembly, R-Value of insulation

FLOORS SLAB ON GRADE (EACH ASSEMBLY) Description of assembly CONIC SLAB OVER VB & 4" OF CLEAN STONE

U-Value of total assembly, R-Value of insulation, Horizontal/Vertical requirement, Slab heated NO

MECHANICAL SUMMARY MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT

THERMAL ZONE UNCONDITIONED Winter dry bulb, Summer dry bulb, 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: NA, Chiller, Size Category, If oversized, state reason: NA

LIST EQUIPMENT EFFICIENCIES ELECTRICAL SUMMARY ELECTRICAL SYSTEM AND EQUIPMENT Method of Compliance: SEE ABOVE 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 build. or space by space), total exterior wattage specified vs. allowed

Additional Prescriptive Compliance NOT REQ. PER STATUE 131 BUT EFFICIENT EQUIPMENT PROVIDED C406.2 MORE EFFICIENT HVAC EQUIP. PERFORM. 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 HTG.

LAKESIDE STORAGE

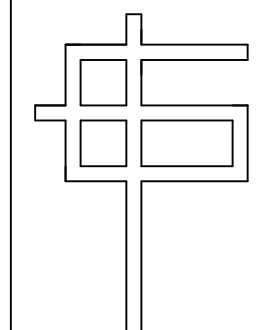
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GENERAL NOTES:

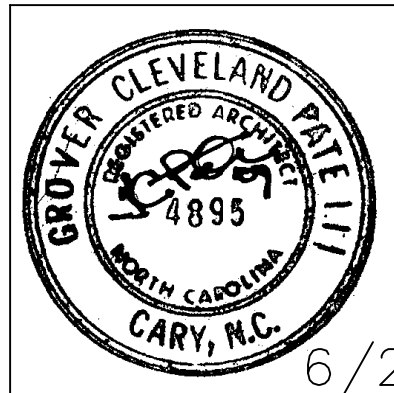


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G. CLEVELAND PATE, PLLC Architecture + Planning 6013 Fordland Drive, Raleigh, NC 27608 919-851-0052

SEALS:



APPENDIX B

Table with 3 columns: SHEET: GCP, GCP, SHEET: DESIGNED BY: GCP, DRAWN BY: GCP, APPXB CHECKED BY: GCP, APPROVED BY: GCP, OF: LAKESIDE, LAKESIDEANG, 6/27/22 CAD FILE NAME: PROJECT # DATE:

LAKESIDE STORAGE

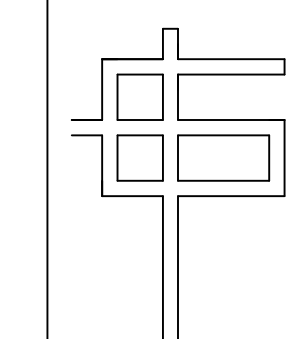
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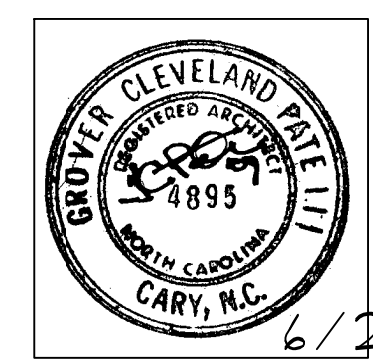
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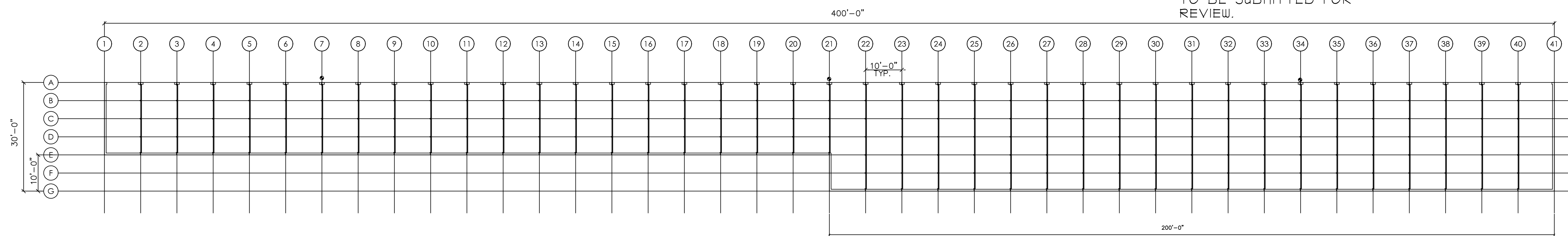


6/27/22

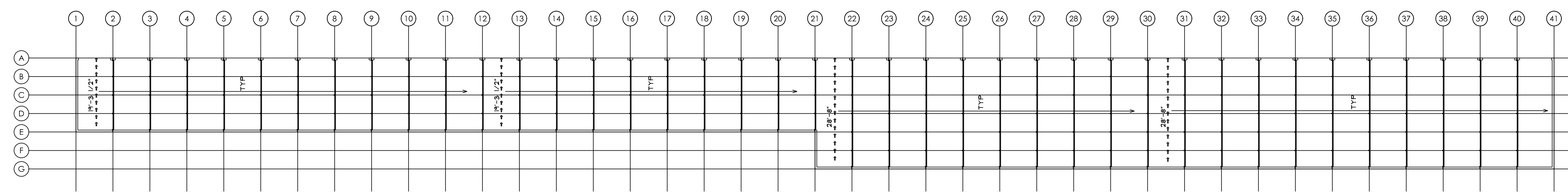
PLAN
NON CLIMATE
CONTROLLED

GCP	GCP	DESIGNED BY:	DRAWN BY:	A-1
GCP	GCP	CHECKED BY:	APPROVED BY:	
LAKESIDE	LAKESIDEANG	PROJECT #	DATE:	6/27/22

ALL ROLL UP DOORS
BY JANUS. SHOP DWGS.
TO BE SUBMITTED FOR
REVIEW.

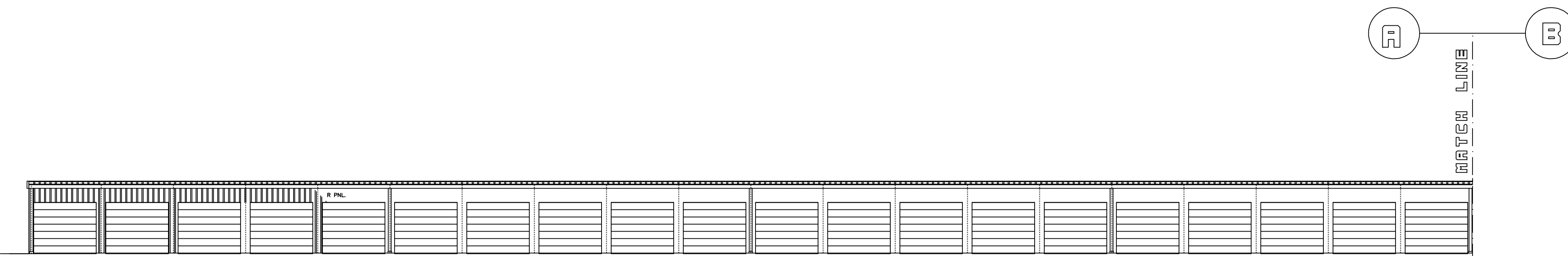


1 FLOOR PLAN NON CLIMATE CONTROLLED
A-1 1/16" = 1'-0"



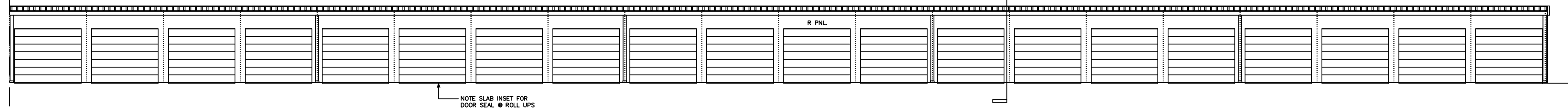
2 LIFE SAFETY PLAN NON CLIMATE CONTROLLED
A-1 1/16" = 1'-0"

NO OCCUPANTS IN CLIMATE
CONTROLLED BLDGS. NO
MAN DOORS, ROLL UP ONLY
IN STORAGE UNITS.



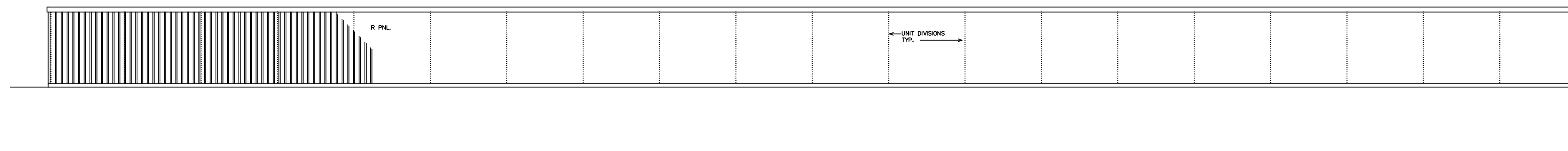
ALL ROLL UP DOORS BY JANUS
 PROVIDE SHOP DWGS FOR REVIEW
 COOR #/STRUCTURAL STUD FRAMING.

1 FRONT ELEVATION A
 A-2 3/32" = 1'-0"



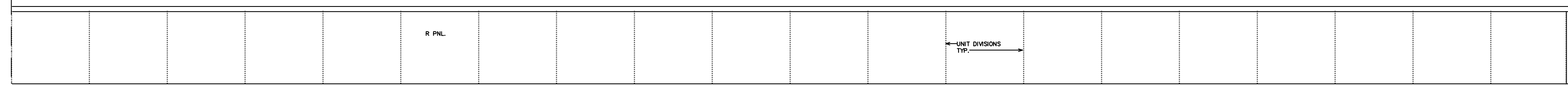
NOTE SLAB INSET FOR
 DOOR SEAL @ ROLL UPS

2 FRONT ELEVATION B
 A-2 3/32" = 1'-0"



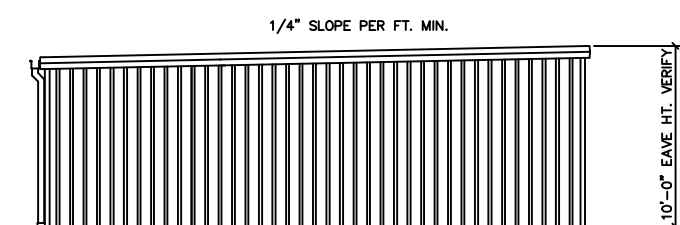
UNIT DIVISIONS
 TYP.

3 REAR ELEVATION C
 A-2 3/32" = 1'-0"

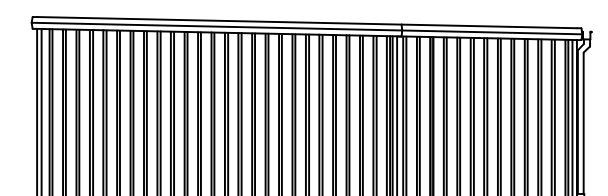


UNIT DIVISIONS
 TYP.

4 REAR ELEVATION D
 A-2 3/32" = 1'-0"



5 RIGHT SIDE ELEV.
 A-2 3/32" = 1'-0"



6 LEFT SIDE ELEV.
 A-2 3/32" = 1'-0"

LAKESIDE STORAGE

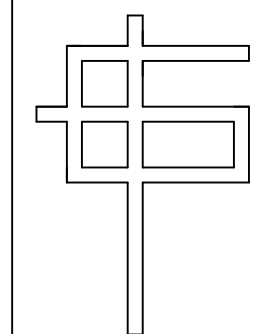
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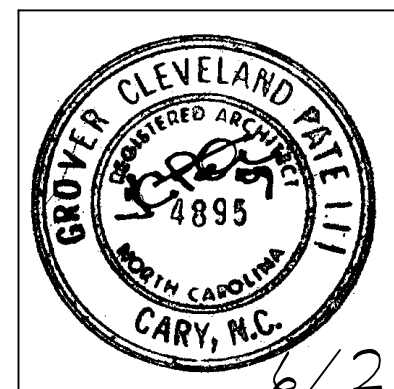
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 919-851-0052

SEALS:



6/21/22

ELEVATIONS

GCP	GCP	SHEET:
DESIGNED BY:	DRAWN BY:	A-2
GCP	GCP	
CHECKED BY:	APPROVED BY:	OF:
LAKESIDE	LAKESIDEANG	6/21/22
CAD FILE NAME:	PROJECT #	DATE:

COOR. W/STRUCTURAL

LAKESIDE STORAGE

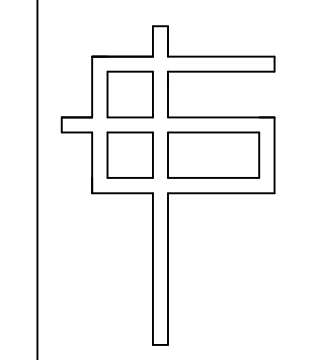
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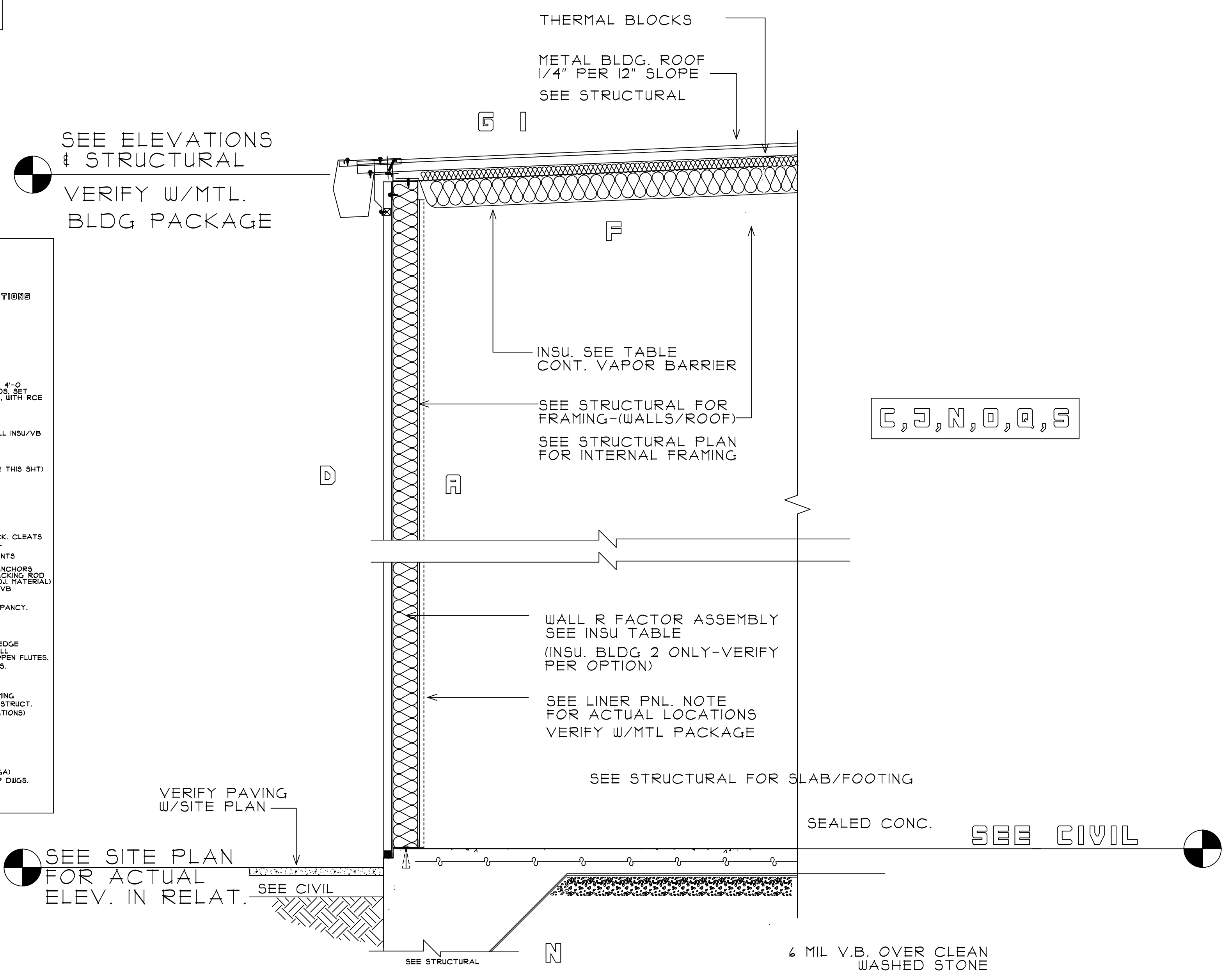
SEALS:



6/27/22

BUILDING SECTIONS

GCP	GCP	SHEET:
DESIGNED BY:	DRAWN BY:	A-3
GCP	GCP	
CHECKED BY:	APPROVED BY:	OF:
LAKESIDE	LAKESIDEANG	6/27/22
CAD FILE NAME:	PROJECT #	DATE:



- SECTION KEYS: ALL WALL SECTIONS**
- A SEE STRUCTURAL FOR STUDS, FND, WALLS, FTGS, STRUCTURAL COMPONENTS, FLOOR SYSTEMS, BEAMS/HEADERS/ANTELS
 - B CONT. PVC FLASHING TO PVC HEAD JT. WEEPS 2'-0" O.C. HORIZ.
 - C ADA/ANSI THRESHOLD AT ALL MAN DOORS. AT 4'-0" LOADING DOORS 1/4" H. WITH RETURN CLOSED ENDS. SET IN FULL BED OF MASTIC. 3'-0" MAN DOORS 1/2" WITH RCE IN FULL MASTIC BED
 - D DENS GLASS GOLD SHEATHING. WATER PROOF. NOTE: OWNER MAY SUBSTITUTE UP BLDG WRAP
 - E FIBERGLASS BATT INSU. SEE SECTION KEY FOR ALL INSU/VB (INSULATION IS AN OPTION FOR S OCCUPANCY)
 - F ROOF INSU. THERMAL BLOCKS & CONT. VB. SEE GENERAL INSU. KEY SECT. SHEETS FOR ALL VALUES. (SEE TABLE THIS SHT)
 - G METAL ROOFING & METAL SIDING. SEE STRUCT FOR TYP. FLASHING DETAIL ASSEMBLY. NOTE: AT ALL INSTALL. TO MEET MANUF. STANDARD SPECS/DETAILS
 - H SEE DOOR SCHEDULE FOR ALL DOOR TYPES
 - I PREMANUF. MTL COPING, 24 GA. MIN. CONCEAL. LOCK. CLEATS. VERIFY PARAPET DEPTHS. PROVIDE KYNAR METAL COLOR SELECTION OR METAL ROOFING/SIDING COLOR STANDARDS & MANUF. TYP. TRIM COMPONENTS
 - J FLASH & WEEP ALL DOOR HEADS. INSTALL JAMB ANCHORS. ALL FRAMES SEAL WITH MIN. 2 PART SEALANT. BACKING ROD IF OVER 1/4" JT. COLOR TO MATCH SIDING OR ADJ. MATERIAL
 - K SLAB OVER CLEAN WASHED STONE & MIL VB. SEE STRUCTURAL
 - L PERIMETER INSULATION IS AN OPTION FOR S OCCUPANCY. FOR TYP. FOOTINGS SEE STRUCTURAL
 - M DAMP PROOF ALL SHALLOW FND. FACES OF CONC. FOOTING NOT WATER PROOFED
 - N SEE FOUNDATION PLANS/DETAILS FOR RECESSED EDGE SIDING AND OVERHEAD DOOR LOCATIONS. INSTALL MANUF. STANDARD CLOSURE COMPONENT AT ALL OPEN FLUTES.
 - O SEE PLAN AND ELEV. FOR GUTTER & DS LOCATIONS. COOR. WITH CIVIL
 - P PREFAB CANOPY & STRUTS W/CONNECTIONS INCL. D.S. VERIFY FIN. COLOR (SHOP DIAG REQ.) COOR. W/STRUCTURAL ANY BLOCKING DURING FRAMING. DETAIL SHOWN TO COOR. W/SHOP DIAGS. VERIFY W/STRUCT.
 - Q SEE STRUCTURAL FOR WALL BLOCKING (SEE ELEVATIONS)
 - R SEE STRUCTURAL FOR ALL LINTEL/SUPPORT COMBO AT ENTRY & LOADING AREAS.
 - S SEE STRUCTURAL FOR BOX BEAM OR STEEL BEAM OPENINGS, DOORS & ROLL UPS.
 - T PACIA BREAK/METAL PREFINISHED KYNAR CONCEALED ROLLED JTS. MATCHING TRIM (MIN. 24 GA)
 - U SIDING TYPES/PROFILES TO BE VERIFIED ON SHOP DIAGS. VERIFY ALL COLORS.

1 SECTION REAR OF BLDG.
A-3 DO NOT SCALE

FRONT ELEVATION/HIGH EAVE
SIMILAR. SEE BUILDING ELEV.

INSULATION TABLE-ALL BLDGS.

STORAGE NON CONDITIONED:
ROOF- 2" INSULATION, INTEGRAL VAPOR BARRIER, THERMAL BLOCKS.
WALLS- NO INSULATION WITH VAPOR BARRIER INSTALLED. OWNER OPTION- RII BATTs
FOUNDATION- NO PERIMETER INSULATION. INSTALL 4 MIL V.B.

STORAGE CONDITIONED:
ROOF- R30 (R19 + R11 LS (LINER SYSTEM USING R3 MIN. THERMAL BLOCKS))
WALLS- R11 BATTs WITH VAPOR BARRIER
FOUNDATION- R15 24" FLAT SLAB. TURN DN. * LUG UNDER SLAB (VERIFY) W/6 MIL VB
NOTE: * BELOW GRADE CONDITION NO PERIMETER FOUNDATION REQ. WHERE 4'-0" OR MORE BELOW GRADE. VERIFY GRADES & FOUNDATION.

FILES:
ROOF- R30 (R19 + R11 LS (LINER SYSTEM USING R3 MIN. THERMAL BLOCKS))
WALLS- R13 + R15 CI (CONT. INSULATION) WITH VAPOR BARRIER ON OUTSIDE W/L.E.F.
FOUNDATION- R15 24" FLAT SLAB. TURN DN * LUG UNDER SLAB. SEE SECTIONS
INSTALL 4 MIL VB.

NEW FACILITY: BUILDING D LAKESIDE STORAGE - ANGIER STRUCTURAL PLANS FOR SELF STORAGE FACILITY ANGIER, NORTH CAROLINA

STRUCTURAL DRAWING SCHEDULE

SHEET NO.	SHEET NAME	ORIGINAL DATE	RE-ISSUE DATE
SN1	COVER SHEET	07-07-2022	---
SN2	SPECIAL INSPECTIONS	07-07-2022	---
S1.3	FOUNDATION PLAN	07-07-2022	---
S2.3	ROOF FRAMING PLAN	07-07-2022	---
S2.3a	ROOF PLAN	07-07-2022	---
S2.4	ROOF DETAILS	07-07-2022	---
S3.3	ELEVATIONS	07-07-2022	---
S4	FOUNDATION DETAILS	07-07-2022	---
S5	FRAMING DETAILS	07-07-2022	---
S6	FRAMING DETAILS	07-07-2022	---

STRUCTURAL DESIGN DATA SHEET:

RISK CATEGORY:
II

IMPORTANCE FACTORS:
I seismic 1.0
I snow 1.0

DEAD LOADS:
ROOF 5 psf
ELEVATED FLOOR 60 psf

LIVE LOADS:
ROOF 20 psf
FLOOR 125 psf

SNOW LOAD:
Pg 15 psf

WIND LOAD:
Basic Wind Speed 120 MPH
Exposure Category C

SEISMIC LOAD:
Spectral Response
Ss 0.176
S1 0.084
Sds 0.188
Sd1 0.134
Seismic Design Category C
Seismic Site Class D - Default
Structural System Light framed walls w/ Steel Sheets
R-Factor 6.5
Analysis Procedure Equivalent Lateral Force

SEISMIC ANCHORAGE OF NON-STRUCTURAL COMPONENTS:
SEISMIC ANCHORING NOT REQUIRED

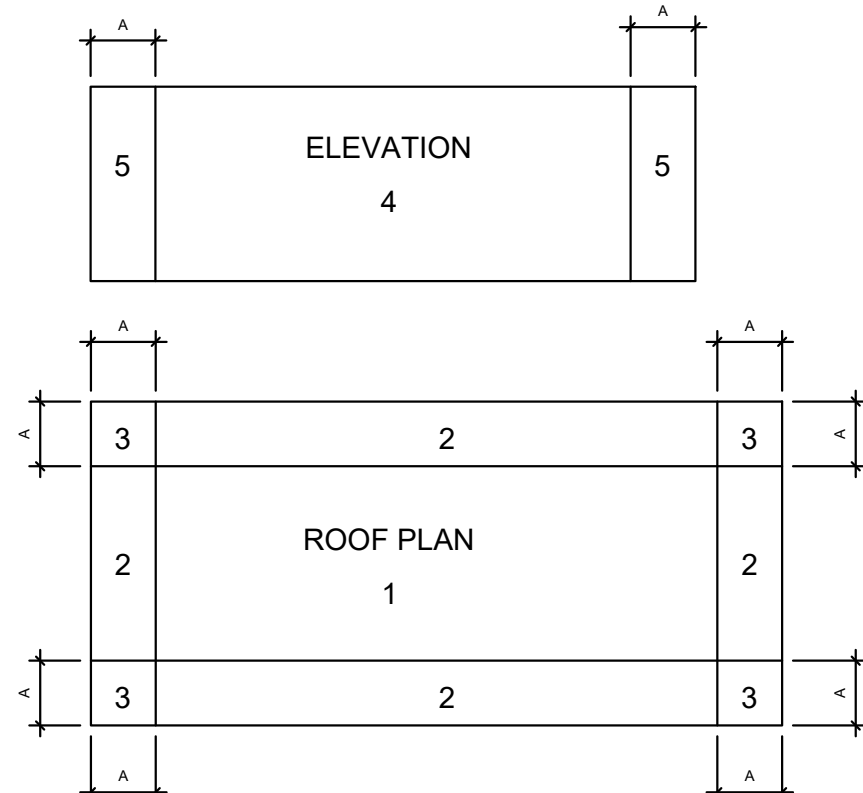
LATERAL DESIGN CONTROL:
X-Direction WIND
Y-Direction WIND

SOIL BEARING PROPERTIES:
Allowable Bearing Capacity = 2000 psf

WIND LOAD SCHEDULE

COMPONENTS & CLADDING	ROOF WIND LOAD			WALL WIND LOADS	
	ROOF AREA			WALL AREA	
	1	2	3	4	5
PRESSURE (PSF)	+10.2	+10.2	+10.2	+27.5	+27.5
SUCTION (PSF)	-27.1	-36.4	-43.8	-30.0	-35.8

1. CORNER DISTANCE, A=15 FEET, ROOF = 50 SF, WALL = 20 S.F. C&C



BASE SHEAR SCHEDULE				
	WIND BASE SHEAR ¹		SEISMIC BASE SHEAR ²	
	Vx	Vy	Vx	Vy
BUILDING A	22.7 K	17.4 K	2.4 K	2.4 K
BUILDING B	22.7 K	17.4 K	2.4 K	2.4 K
BUILDING D	51.6 K	4.0 K	1.4 K	1.4 K

1. WIND BASE SHEAR INCLUDES A 0.6 WIND FACTOR.
2. SEISMIC BASE SHEAR INCLUDES A 0.7 SEISMIC FACTOR.

COLD-FORMED STEEL:

- ALL MEMBERS SHALL CONFORM TO THE AISI "SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," NAS-01 AND SHALL BE OF THE TYPE AND SIZE AS INDICATED ON THE PLANS. ALL STRUCTURAL MEMBERS SHALL MEET THE REQUIREMENTS OF 2007 A.I.S.I. GENERAL PROVISIONS. STRUCTURAL MEMBER MATERIAL IS EITHER ASTM A653-06 GR 55 OR A1011-04 HSLAS GR. 55 CH-L. ALL MEMBERS SHALL BE ZINC COATED MEETING ASTM A1003, G-60 OR EQUAL.
- THE PHYSICAL AND STRUCTURAL PROPERTIES AS LISTED BY BUILDING VENDOR SHALL BE THE MINIMUM PERMITTED FOR FRAMING MEMBERS. WE HAVE ASSUMED SSMA LISTED SIZES OR EQUIVALENT SUBSTITUTIONS MUST BE SUBMITTED THROUGH SHOP DRAWINGS AND APPROVED PRIOR TO CONSTRUCTION BY THE ENGINEER.
- FASTENING OF COMPONENTS SHALL BE WITH SELF-DRILLING SCREWS OR WELDING IN COMPLIANCE WITH C1513. SCREWS AND WELDS SHALL BE OF SUFFICIENT SIZE TO ENSURE THE STRENGTH OF THE CONNECTION. ALL SCREWS SHALL NOT BE LESS THAN 3/4" O.C. OR FROM EDGE. ALL WELDS SHALL BE TOUCHED-UP WITH ZINC-RICH PAINT. U.N.O. ALL SCREW ATTACHMENTS SHALL BE #12 OR BETTER.
- ALL POWER-ACTUATED FASTENERS (PAF) SHALL BE 0.177" DIA., U.N.O.
- STRUCTURAL MATERIAL IS NOT DESIGNED TO BE PUNCHED. IF MATERIAL IS PUNCHED, CONSULT EOR FOR REMEDIATION.
- TOP AND BOTTOM TRACKS SHALL BE THE SAME DEPTH AND GAGE. ALL TRACKS SHALL BE CONNECTED TO SUPPORTS WITH (2) FASTENERS OR PAFs AT EACH 30" O.C., MAXIMUM.
- U.N.O. FLANGES SHOULD 2-1/2".
- SPLICES IN FRAMING COMPONENTS, OTHER THAN RUNNER TRACK, SHALL NOT BE PERMITTED.
- TEMPORARY BRACING, WHERE REQUIRED, SHALL BE PROVIDED UNTIL ERECTION IS COMPLETE.
- ALL FRAMING COMPONENTS SHALL BE CUT SQUARELY FOR ATTACHMENT TO PERPENDICULAR MEMBERS OR, AS REQUIRED, FOR AN ANGULAR FIT AGAINST ABUTTING MEMBERS.
- PROVIDE ADDITIONAL STUDS, WHEN NECESSARY, TO RESIST VERTICAL COMPONENTS OF LOADS.
- THE QUANTITY OF STUDS AT HEADER OPENINGS SHALL BE MINIMUM AMOUNT OF STUDS DISPLACED DUE TO OPENING WITH HALF ON EACH SIDE OF OPENING.
- MULTIPLE STUDS AT STUD PACKS SHALL BE ATTACHED AT (2) ROWS, STAGGERED WITH #10 TEKs SCREWS AT 24" O.C., IN A BACK-TO-BACK CONFIGURATION. WHEN FLANGE-TO-FLANGE IS REQUIRED GUSSET PLATES OR TRACKS SHALL BE INSTALLED AT THE ABOVE MENTIONED SPACING.
- STUDS SHALL BE INSTALLED SO THE ENDS ARE POSITIONED AGAINST THE INSIDE OF THE RUNNER TRACK WEB PRIOR TO FASTENING AND SHALL BE ATTACHED TO BOTH FLANGES OF THE UPPER AND LOWER RUNNER TRACKS.
- PROVIDE STIFFENERS IN HEADERS AT EACH POINT LOAD AND AT BEARING LOCATIONS, AS DESIGNATED ON PLANS.
- ATTACH ALL CONNECTION PER PLANS OR AS DETAILED AND NOTED IN MANUFACTURER TECHNICAL MANUALS, PROVIDE SCREW OR POWDER ACTUATED FASTENER (PAF) ATTACHMENTS AS SPECIFIED.
- LAYOUTS AS INDICATED ON PLANS IS FOR GRAPHICAL REPRESENTATION PURPOSES ONLY. ACTUAL STUD LOCATIONS MUST BE SUBMITTED WITH SHOP DRAWINGS.

STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL WORK SHALL CONFORM TO THE A.I.S.C. "STEEL CONSTRUCTION MANUAL" 360-05.
- STRUCTURAL STEEL SHALL BE ASTM A-992.
- STRUCTURAL TUBES SHALL BE ASTM A500, GRADE B.
- STEEL FRAMING CONNECTIONS SHALL BE BOLTED OR WELDED. BOLTS SHALL BE 3/4" DIAMETER MINIMUM AND SHALL BE ASTM A-325-N U.N.O., SNUG TIGHT ALL CONNECTIONS.
- ANCHOR BOLTS SHALL BE ASTM F1554 HEADED BOLTS. MINIMUM ANCHOR BOLT EMBEDMENT LENGTH SHALL BE 12 BOLT DIAMETERS U.N.O. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC., BEFORE INSTALLATION.
- WELDS SHOWN ON THE STRUCTURAL DRAWINGS ARE THE MINIMUM REQ'D BY DESIGN. THE FABRICATOR'S DRAWINGS SHALL SHOW WELDS AND THEY SHALL CONFORM TO A.W.S. SPECIFICATIONS. ALL WELDING SHALL BE DONE WITH E-70 SERIES ELECTRODES.
- PAINT ALL STRUCTURAL STEEL WITH ONE COAT OF RED OXIDE RUST-INHIBITIVE PRIMER 2.5 MILS IN THICKNESS. THE COMPATIBILITY OF PRIMER AND ANY TOP COAT SHALL BE VERIFIED BEFORE ANY PAINTING IS PERFORMED. TOUCH-UP ALL EXPOSED METAL AFTER FIELD INSTALLATION. ALL STRUCTURAL STEEL WHICH IS EXPOSED TO THE ELEMENTS SHALL RECEIVE TWO COATS OF EXTERIOR ENAMEL WHICH IS COMPATIBLE TO THE PRIMED SURFACE.
- THE SHOP DRAWINGS SHALL INCLUDE COMPLETE DETAILS AND SCHEDULES FOR FABRICATION AND ASSEMBLY OF STRUCTURAL STEEL MEMBERS. SUBMIT FOUR PRINTS OF EACH DRAWING. REPRODUCTION OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. CONTRACTOR TO REVIEW AND STAMP DRAWINGS PRIOR TO SUBMISSION TO THE EOR.

DESIGN AND CODE INFORMATION:

- ALL CONSTRUCTION SHALL CONFORM TO THE 2018 NORTH CAROLINA BUILDING CODE AND ASCE 7-10.
- VERIFY EXISTING CONDITIONS AND NOTIFY ARCHITECT OF ANY CONDITIONS WHICH DO NOT COMPLY WITH PLANS AND SPECIFICATIONS. STRUCTURAL DRAWINGS MUST BE WORKED WITH ARCHITECTURAL DWGS.
- THE DESIGN ADEQUACY, SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC. IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- FOR LOCATION OF MISCELLANEOUS ITEMS (SUCH AS INSERTS, ETC.) AFFECTING STRUCTURAL WORK, SEE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS.
- THIS PROJECT CONTAINS A SERIES OF DETAILS CONSIDERED "TYPICAL DETAILS". THESE SHALL APPLY AT ALL SITUATIONS THAT ARE THE SAME OR SIMILAR AS THESE DETAILS. THESE "TYPICAL DETAILS" SHALL APPLY WHETHER OR NOT THEY ARE INDICATED OR CUT AT EACH LOCATION.
- USE OF STRUCTURAL DRAWINGS FOR SHOP DRAWINGS IS NOT PERMITTED. CONTRACTOR TO REVIEW AND STAMP DRAWINGS ACCORDINGLY PRIOR TO SUBMITTING TO THE ENGINEER. THE OMISSION OF ITEMS FROM SHOP DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF RESPONSIBILITY OF FURNISHING AND INSTALLING ITEMS REGARDLESS OF WHETHER SHOP DWGS. HAVE BEEN REVIEWED AND APPROVED.

FOUNDATION NOTES:

- FOUNDATION DESIGN IS BASED UPON ASSUMED SOIL VALUES. CONTRACTOR/OWNER SHALL VERIFY PRIOR TO CONSTRUCTION.
- FOOTINGS ARE DESIGNED TO BEAR ON UNIFORM SUITABLE SOIL CAPABLE OF SUPPORTING 2000 PSF.
- THE SOIL BEARING CAPACITY AND CONSISTENCY SHALL BE VERIFIED FOR THE BUILDING LIMITS BY A REGISTERED GEOTECHNICAL ENGINEER WHEN FOUNDATION EXCAVATIONS HAVE BEEN CARRIED DOWN TO THE PROPOSED ELEVATIONS. THE BOTTOM OF ALL EXTERIOR FOOTINGS SHALL BE -1'-4" MINIMUM BELOW FINISHED GRADE. (U.N.O.)
- WHERE FOOTING EXCAVATIONS ARE TO REMAIN OPEN AND MAY BE EXPOSED TO RAINFALL, THE EXCAVATIONS SHALL BE UNDERCUT AND A 3" THICK MUD MAT OF 2000 PSI CONCRETE SHALL BE PLACED OR CLEAN SHALL BE PLACED IN THE BOTTOM TO PROTECT THE BEARING SOILS.
- WHERE FOOTING STEPS ARE NECESSARY, THEY SHALL BE NO STEEPER THAN 1 VERTICAL TO 2 HORIZONTAL, UNLESS SHOWN OTHERWISE ON PLANS.

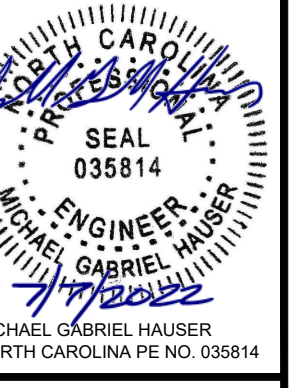
REINFORCED CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO THE "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE." (ACI 318, 05)
- REINFORCING STEEL SHALL BE DEFORMED BARS ASTM A-615 (GRADE 60)
- FOUNDATIONS AND SLAB-ON-GRADE COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES.
- WALL AND ELEVATED SLAB COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 4000 P.S.I. (SEE CIVIL DRAWINGS FOR SITE CONCRETE) KEEP COPY OF CONC. TEST REPORTS ON SITE AT ALL TIMES
- LAP SPLICES FOR #5 REINFORCING BARS SHALL BE 36" MIN., AND #6 REINFORCING BARS SHALL BE 43" MIN., UNLESS SUBMITTED AND APPROVED OTHERWISE.
- CLEAR CONCRETE COVER FOR REINFORCING STEEL:
WALLS: 3" CAST AGAINST GROUND
2" FORMED EDGES
FOOTINGS: 2" FORMED EDGES
3" CAST AGAINST GROUND
SLAB ON GRADE: MID-HEIGHT OF SLAB
- THE LONGITUDINAL REINFORCING STEEL IN WALLS AND FOOTINGS SHALL BE CONTINUOUS AROUND CORNERS. SEE TYPICAL DETAILS.
- SLUMP LIMIT IS 5 INCHES FOR CONCRETE WITH VERIFIED SLUMP OF 2 TO 4 INCHES BEFORE ADDING HIGH-RANGE WATER-REDUCING ADMIXTURE OR PLASTICIZING ADMIXTURE, PLUS OR MINUS 1 INCH
- AIR CONTENT: 4 PERCENT, PLUS OR MINUS 1.5 PERCENT AT POINT OF DELIVERY FOR 3/4-INCH NOMINAL MAXIMUM AGGREGATE SIZE. EXCEPTION TROWEL-FINISHED FLOOR SHALL NOT EXCEED 3 PERCENT.
- MAXIMUM COARSE-AGGREGATE SIZE: 3/4 INCH NOMINAL.
- PORTLAND CEMENT: ASTM C 150/C 150M, TYPE I.
- COLD-WEATHER PLACEMENT: COMPLY WITH ACI 306.1.
- HOT-WEATHER PLACEMENT: COMPLY WITH ACI 301.
- DESIGN, ERECT, SHORE, BRACE, AND MAINTAIN FORMWORK, ACCORDING TO ACI 301, TO SUPPORT VERTICAL, LATERAL, STATIC, AND DYNAMIC LOADS, AND CONSTRUCTION LOADS THAT MIGHT BE APPLIED, UNTIL STRUCTURE CAN SUPPORT SUCH LOADS. PLACE FORMWORK SO CONCRETE MEMBERS AND STRUCTURES ARE OF SIZE, SHAPE, ALIGNMENT, ELEVATION, AND POSITION INDICATED. WITHIN TOLERANCE LIMITS OF ACI 117. CHAMFER EXTERIOR CORNERS AND EDGES OF PERMANENTLY EXPOSED CONCRETE
- BEFORE PLACING CONCRETE, VERIFY THAT INSTALLATION OF FORMWORK, REINFORCEMENT, AND EMBEDDED ITEMS IS COMPLETE AND THAT REQUIRED INSPECTIONS ARE COMPLETED. DEPOSIT CONCRETE CONTINUOUSLY IN ONE LAYER OR IN HORIZONTAL LAYERS OF SUCH THICKNESS THAT NO NEW CONCRETE IS PLACED ON CONCRETE THAT HAS HARDENED ENOUGH TO CAUSE SEAMS OR PLANES OF WEAKNESS. IF A SECTION CANNOT BE PLACED CONTINUOUSLY, PROVIDE CONSTRUCTION JOINTS AS INDICATED. DEPOSIT CONCRETE TO AVOID SEGREGATION. CONSOLIDATE PLACED CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT ACCORDING TO ACI 301.

CONCRETE MASONRY:

- CONCRETE MASONRY SHALL CONFORM TO THE NATIONAL CONCRETE MASONRY ASSOCIATION SPECIFICATIONS, AND HAVE A DENSITY OF 125 P.C.F. AND SHALL HAVE A MINIMUM PRISM STRENGTH (Fm) OF 1500 P.S.I.
- GROUT FOR FILLING CONCRETE MASONRY CELLS SHALL CONFORM TO STANDARD SPECIFICATIONS FOR "GROUT FOR MASONRY", ASTM C-476-02, AND SHALL HAVE A COMPRESSIVE PRISM STRENGTH (Fm) OF 3000 P.S.I. AT 28 DAYS. THE SLUMP SHALL BE BETWEEN 9" AND 11". WHERE THE MINIMUM DIMENSION OF ANY CONTINUOUS VERTICAL CELL IS 3" OR LESS, USE FINE GROUT, OTHERWISE USE COARSE (PEA GRAVEL) GROUT.
- MORTAR FOR CONCRETE MASONRY SHALL BE TYPE "S" AND SHALL CONFORM TO ASTM C-270-04.
- GROUT PROCEDURES AND REBAR INSTALLATION SHALL PER ASTM ACI 530 1-99. LAP SPLICES FOR REINFORCING BARS SHALL BE 24" MIN., U.N.O.
- BRICK LINTELS - SEE SCHEDULE ON STRUCTURAL "S" SHEETS
- ALL METAL BRICK TIES FOR BRICK VENEER SHALL BE A 2-PIECE, 3/16" DIAMETER ADJUSTABLE TIE, SPACED AT EACH STUD LOCATION, 24" O.C. (MAX) HORIZONTALLY, AND 16" O.C. VERTICALLY. METAL TIES SHALL BE EMBEDDED AT LEAST 2" INTO THE BRICK WYTHE. TIE MUST BE HOT DIPPED GALVANIZED IN ACCORDANCE WITH ASTM A153, CLASS B. IN ADDITION, TIES SHOULD NOT HAVE MECHANICAL PLAY IN EXCESS OF 0.05" AND SHOULD NOT DEFORM OVER 0.05" FOR 100 LB LOAD IN EITHER TENSION OR COMPRESSION. METAL TIES SHOULD BE INSTALLED WITH 1/4-14 FASTENERS

HAUSER-CREECH, INC.
PROJECT # 22-10X-00X



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ANGIER, NC

ISSUE DATE: 07-07-2022

REV DATE

PROJECT
DATA
& SPECS

SN1

STATEMENT OF SPECIAL INSPECTIONS:

Project Name: LAKESIDE STORAGE - ANGIER

Building Permit Number: _____

Project Address: 5556 NC-210, Angier, North Carolina, 27501

The following information is being submitted in accordance with the Special Inspection provisions of the International Building Code. Attached is the Schedule of Special Inspections (SSI) required for this project.

The Special Inspection program outlined herein does not relieve the Contractor or any other entity of contractual duties, including quality control, quality assurance or safety. The contractor is solely responsible for construction means, methods and job site safety.

Respectfully submitted,
The Structural Engineer of Record

Signature: *M. M. M. H.* Date: 7/7/2022

SCHEDULE OF SPECIAL INSPECTIONS:

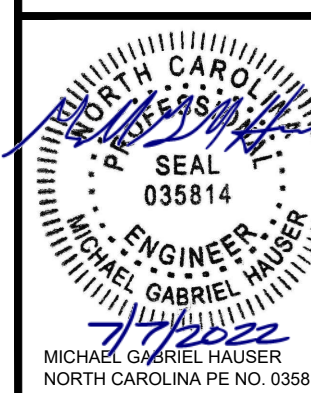
Project Name: LAKESIDE STORAGE - ANGIER
Construction divisions which require inspections for this project are as follows:

INSPECTION TASK	CONTINUOUS (C) OR PERIODIC (P) INSPECTIONS		SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
	C	P		
1. VERIFICATION OF SOILS (Table 1704.7)				
Verify materials below shallow Foundations are adequate to achieve the design bearing capacity.		P	Testing Agency (TA)	Testing Agency shall provide soils report
Verify excavations are extended to proper depth.		P	Testing Agency (TA)	
Perform Classification and testing of compacted fill materials.		P	Testing Agency (TA)	
Verify use of proper materials, densities and lift thickness during placement and compaction of compacted fill.		C	Testing Agency (TA)	
Prior to placement of compacted fill, observe sub-grade and verify that site has been prepared properly.		P	Testing Agency (TA)	
2. REINFORCED CONCRETE (Table 1704.4)				
Inspection of reinforcing steel, including prestressing tendons, and placement. ACI 318:3.5, 7.1-7.7		P	Testing Agency (TA)	ACI 318: 3.5.7.1-7.7 IBC: 1913.4
Verifying use of required design mix: ACI 318: Ch. 4, 5.2-5.4		P	Testing Agency (TA)	ACI 318: Ch. 4, 5.2-5.4 IBC: 1904.2.2, 1913.2, 1913.3
At the time fresh concrete is sampled to fabricate specimens for strength tests, slump, air content, and temperature of concrete.		C	Testing Agency (TA)	ASTM C 172, C 31 ACI: 318: 5.6, 5.8 IBC: 1913.10

SCHEDULE OF SPECIAL INSPECTIONS (Continued):

Project Name: 6917 NC 55 HIGHWAY
Construction divisions which require inspections for this project are as follows:

INSPECTION TASK	CONTINUOUS (C) OR PERIODIC (P) INSPECTIONS		SPECIAL INSPECTIONS FIRM	NOTES & SCOPE
	C	P		
3. STRUCTURAL STEEL (Table 1704.3)				
Material verification of high strength bolts, nuts and washers.		P	Special Inspector (SI)	AISC 360, A3.3
Inspection of high strength bolting, snug tight joints		P	Special Inspector (SI)	AISC 360, M2.5 IBC 1704.3.3
Material verification of structural steel.		P	Special Inspector (SI)	Fabricator's bill of materials verification is acceptable.
All field welding.		P	Special Inspector (SI)	AWS D1.1 IBC 1704.3.1
4. RETAINING WALLS (Table 1704.12)				
Inspect all retaining walls over 5 feet in height per NCSBC.		P	Testing Agency (TA)	
5. MASONRY (Table 1704.4)				
As masonry construction begins, the following shall be verified to ensure compliance: (A) Proportions of site mixed mortar. (B) Construction of mortar joints. (C) Location of reinforcement and connectors.		P	Testing Agency (TA)	ACI 318: 3.5.7.1-7.7 IBC: 1913.4
The inspection program shall verify: (A) Size and location of structural elements. (B) Size, grade, type of reinforcement. (C) Protection of masonry during cold weather (temperature below 40 degrees F) or hot weather (temperature above 90 degrees F)		P	Testing Agency (TA)	Sec. 2108.9.2.11, Item 2, Sec. 2104.3, 2104.4, ACI Sec. 1.15.4, 2.1.2, Sec. 1.12, Sec 2.1.8.6, 2.1.8.6.2, ACI 3.3G, Art 2.4,3.4, Art 1.8
Prior to grouting, the following shall be verified to ensure compliance: (A) Grout space is clean. (B) Placement of reinforcement and connectors. (C) Proportions of site-prepared grout. (D) Construction of mortar joints		P	Testing Agency (TA)	Sec. 1.12, Art. 3.2D, Art 3.4, Art. 2.6B, Art. 3.3B
Grout Placement shall be verified to ensure compliance with code and construction provisions.		P	Testing Agency (TA)	Art. 3.5



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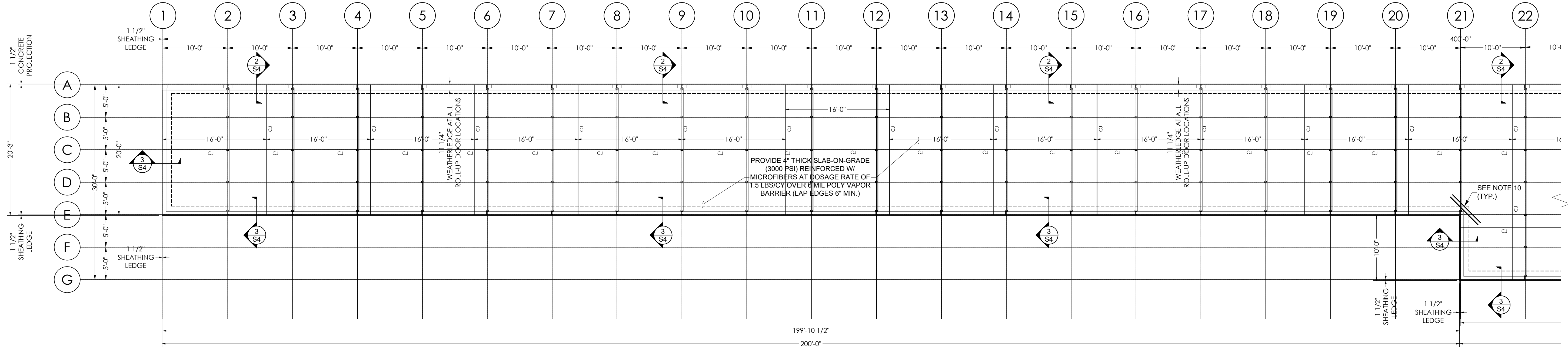
SPECIAL INSPECTIONS
SN2

FOUNDATION NOTES:

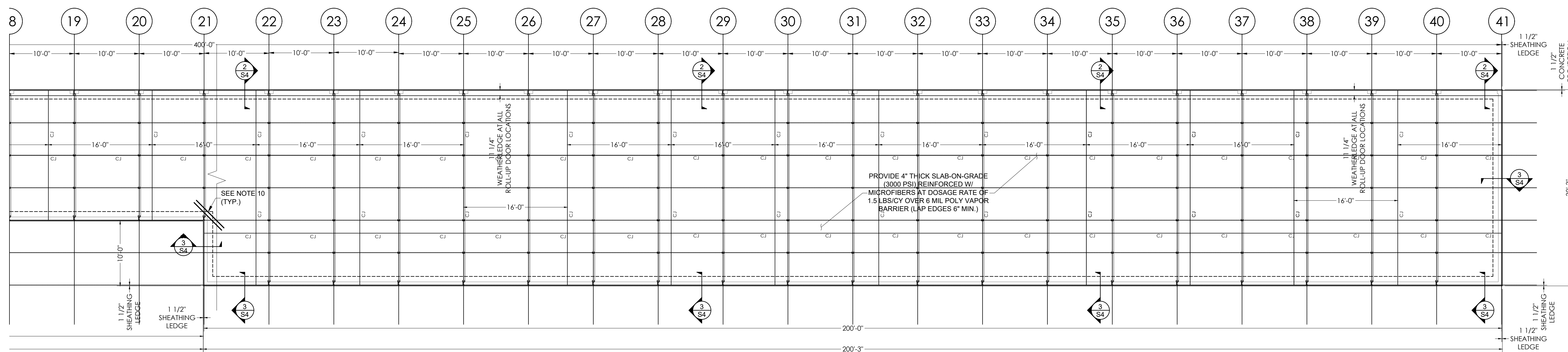
1. PROVIDE COMPACTED BUILDING PAD (95% MIN. COMPACTION). CONTRACTOR MUST VERIFY WITH GEOTECHNICAL ENGINEER AND SPECIAL INSPECTOR ON-SITE IF MOISTURE CONTENT IN SOILS WARRANTS 4" POROUS BASE UNDER SLAB (CLEAN NO. 57 STONE, SAND, OR EQUIVALENT).
2. ALL DIMENSIONS REFERENCED TO SLAB EDGE, AND CENTERLINE OF INTERIOR BEARING WALLS. SEE ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN. VERIFY DIMENSIONS PRIOR TO CONSTRUCTION.
3. MIN. TOP OF EXTERIOR FTG. = F.F.E. - SEE PLAN.
4. SEE DETAIL 1/54 FOR SLAB CONTROL JOINTS (CJ). ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
5. PROVIDE POSITIVE DRAINAGE FROM ALL PERIMETER WALLS.
6. SEE DETAILS AND SCHEDULES FOR FOOTING SIZES AND REINFORCING.
7. PROVIDE 1'-6" MINIMUM DISTANCE BETWEEN THE NEW ANCHOR BOLTS AND THE CONCRETE EDGE, EXPANSION JOINT, CONTROL JOINT, MIS-ALIGNED/ABANDONED BOLT HOLE.
8. PROVIDE DRAINAGE FOR EXPOSED EARTH SURROUNDED BY FOOTINGS UNTIL SLAB IS POURED.
9. ALL CONCRETE FOOTINGS AND SLABS SHALL HAVE A MINIMUM DESIGN STRENGTH OF $F_c=3000$ PSI.
10. PROVIDE (2) 4'-0" LONG #5 BARS AT RE-ENTRANT CORNERS, PLACE AT MID-DEPTH OF SLAB, ONE IN EACH DIRECTION.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE SERVICES OF A QUALIFIED TESTING LABORATORY TO PERFORM ALL COMPACTION TESTING.
12. FOOTING STEP LOCATIONS ARE BASED ON THE SITE CIVIL DRAWINGS AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

ABBREVIATIONS:

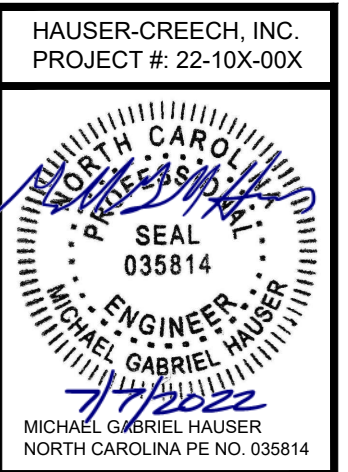
- | | |
|--------|------------------------|
| A. | COLUMN |
| EX. | EXISTING |
| S.O.G. | SLAB ON GRADE |
| T.O.S. | TOP OF STEEL |
| T.O.P. | TOP OF PARAPET |
| T.O.M. | TOP OF MASONRY |
| O.C. | ON CENTERS SPACING |
| T+B | TOP AND BOTTOM |
| F.F.E. | FINISH FLOOR ELEVATION |
| TYP. | TYPICAL |
| DEMO. | DEMOLITION |
| CONT. | CONTINUOUS |
| CMU | CONCRETE MASONRY UNIT |
| STD. | STANDARD |
| XS. | EXTRA STRONG |
| XXS. | DOUBLE EXTRA STRING |
| GALV. | GALVANIZED |



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



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



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FOUNDATION PLAN
S1.3

FRAMING NOTES:

1. MAXIMUM ZEE JOIST SPACING IS INDICATED ON THE PLANS. SPACE JOIST AT ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
2. MATERIAL SUPPLIER SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. SUBMIT SHOP DRAWINGS FOR APPROVAL. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
3. REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
4. SEE DETAIL 1/S2.3 FOR ROOF PANEL SIZE AND ATTACHMENT..
5. VERIFY LOCATIONS AND AMOUNTS OF ALL HEADERS.
6. METAL STUD WALL SHOP DRAWINGS SHALL PROVIDED FOR REVIEW AND APPROVAL.
7. STUD SPACING SHALL NOT EXCEED 60" O.C. ON UPPER LEVEL (OR SINGLE STORY BUILDING) AND 30" ON LOWER LEVEL. ADDITIONALLY POINTS LOADS FROM STUDS ARE DESIGNED TO STACK FROM FLOOR-TO-FLOOR. CONTACT EOR IF STUDS DO NOT ALIGN.
8. STUD WALL SIZES AND CONNECTIONS DIFFERING FROM THOSE SHOWN ON THESE PLANS MAY BE SUBMITTED FOR APPROVAL, PROVIDED THE ALTERNATES ARE PROVIDED IN THE FORM OF A SIGNED AND SEALED SHOP DRAWING BY A LICENSED PROFESSIONAL. NOTE THAT ANY PARTS OMITTED FROM THESE PLANS SHALL BE CONSIDERED THE DESIGNATED ENGINEER RESPONSIBILITY THROUGH SHOP DRAWINGS.
9. EXTERIOR WALL PANELS REQUIRE MID-HEIGHT WALL GIRT OR BRACING AT THIRD POINTS FOR SUPPORT. SEE DETAIL 2 ON S6
10. SEE DETAIL 3 ON S6 FOR PARTITION WALL INTERSECTION W/ BEARING WALL.

BUILDING 1 - LIGHT GAGE METAL STUD SCHEDULE				
LOCATION	STUD HEIGHT	SIZE	SPACING	LATERAL BRACING LOCATIONS
FIRST FLOOR EXTERIOR WALLS - METAL PANELS	VARIABLE	4Cx2 1/2x16GA (50 KSI)	60" MAX.	60" O.C. BRACING
FIRST FLOOR INTERIOR BEARING WALLS	VARIABLE	4Cx2 1/2x16GA (50 KSI)	60" MAX.	SHEATHED ONE SIDE

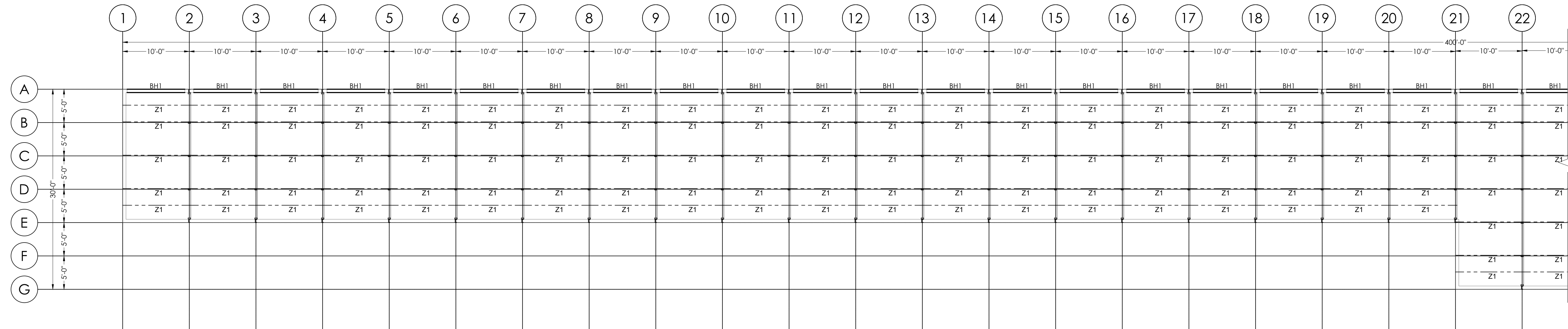
CLADDING SCHEDULE			
PANEL TYPE	LOCATION	MATERIAL	GIRT/PURLIN - WALL/ROOF PANEL BRACE SPACING
U PANEL BY VENDOR	INTERIOR WALL	29 GA.	INTERIOR STUD SPACING = 5.0 FT O.C
R PANEL BY VENDOR	EXTERIOR WALL	26 GA.	CORNER ZONE = 5.0 FT O.C INTERIOR ZONE = 5.0 FT O.C.
24 GA. STANDING SEAM BY VENDOR	ROOF	24 GA.	CORNER ZONE = 5.0 FT O.C PERIMETER ZONE = 5.0 FT O.C INTERIOR ZONE = 5.0 FT O.C

1. SUBMIT VENDOR CUT SHEETS/SHOP DRAWING INFORMATION FOR APPROVAL.
2. SEE MANUFACTURER REQUIREMENTS FOR INSTALLATION COMPONENTS AND TRIM COMPONENTS TO RESIST CLADDING PRESSURES

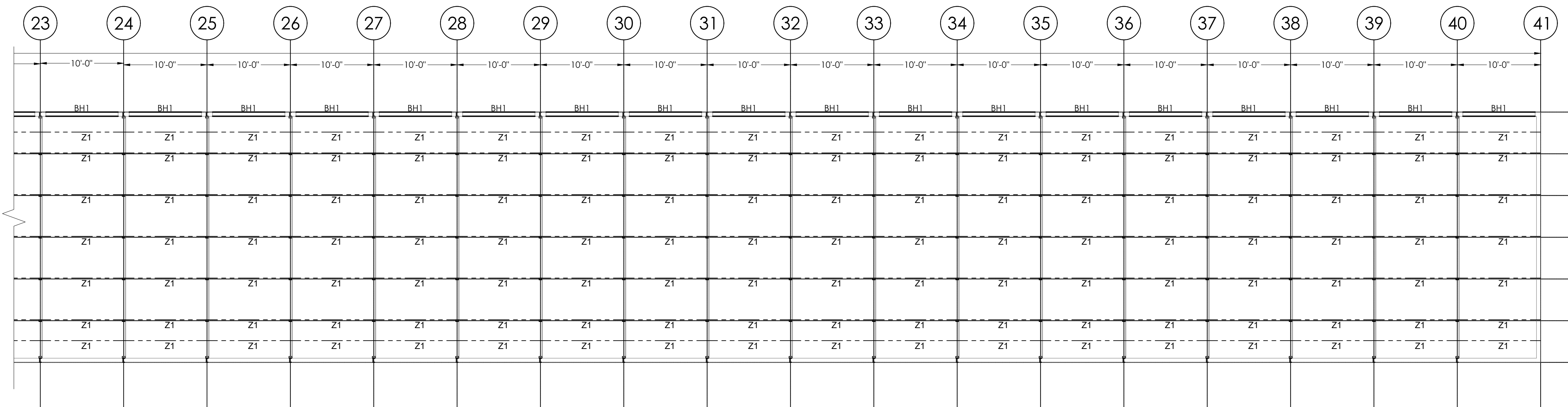
LINTEL SCHEDULE	
SIZE	NOTES
L3-1/2x3-1/2x5/16	UP TO 4'-0" OPENINGS
L4x4x3/8	4'-0" TO 6'-0" OPENINGS
L6x4x3/8 (LLV)	6'-0" TO 8'-0" OPENINGS
L7x4x7/16 (LLV)	8'-0" TO 10'-0" OPENINGS
CONTACT EOR	OPENINGS > 10'-0"

1. NO EXPANSION JOINTS MAY BE POSITIONED ON EITHER SIDE OF OPENING OF ABOVE OPENING. LINTEL IS DESIGNED WITH ARCHING AFFECT OF MASONRY ACCOUNTED.
2. FOR OPENINGS UP TO 8'-0" PROVIDE 6" BEARING ON EACH SIDE. FOR OPENING 8'-0" TO 10'-0", PROVIDE 8" BEARING ON EACH SIDE.
3. NO CONCENTRATED LOADS SHALL BE INSTALLED ABOVE LINTELS. IE. AWNING CONNECTIONS, ARCH FEATURES ETC.

LIGHT GAGE HEADER AND PURLIN SCHEDULE			
LABEL	SIZE	MATERIAL	NOTES
H1	SINGLE 8Cx3-1/2x14GA	50 KSI	SEE DETAILS 5 AND 6 ON S5
DH1	DOUBLE 6Cx2x14GA (50 KSI) W/ CRIPPLE STUDS AT 24" O.C.	50 KSI	SEE DETAIL 4 ON S6
DH2	DOUBLE 12Cx3-1/2x12GA (50 KSI) W/ CRIPPLE STUDS AT 24" O.C.	50 KSI	SEE DETAIL 4 ON S6
DH3	DOUBLE 8Cx2-1/2x16GA (50 KSI) W/ CRIPPLE STUDS AT 24" O.C.	50 KSI	SEE DETAIL 4 ON S6
BH1	DOUBLE 6Cx2x16GA (50 KSI) W/ T&B TRACK TO FORM BOX HEADER	50 KSI	SEE DETAILS 5 AND 6 ON S6
BH2	DOUBLE 6Cx2x14GA (50 KSI) W/ T&B TRACK TO FORM BOX HEADER	50 KSI	SEE DETAILS 5 AND 6 ON S6
Z1	4"x2 1/2"x16 GA Zee Purlins SEE SHOP DRAWINGS	50 KSI	SEE DETAILS 2,3,4, AND 5 ON S5
Z2	12"x3 1/2"x14 GA Zee Purlins SEE SHOP DRAWINGS	50 KSI	SEE DETAILS 2,3,4, AND 5 ON S5



BUILDING D ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



BUILDING D ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



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ANGIER, NC

REV	DATE

ROOF FRAMING PLAN

S2.3

FRAMING NOTES:

1. MAXIMUM ZEE JOIST SPACING IS INDICATED ON THE PLANS. SPACE JOIST AT ACCESS DOORS TO ALLOW FOR PROPER INSTALLATION. REFER TO ARCHITECTURAL PLANS FOR LOCATIONS.
2. MATERIAL SUPPLIER SHALL VERIFY ALL DIMENSIONS, LAYOUTS AND COORDINATE WITH BEARING WALL AND BEAM LOCATIONS. SUBMIT SHOP DRAWINGS FOR APPROVAL. ALTERNATE LAYOUT PLANS MAY BE SUBMITTED FOR APPROVAL.
3. REFER TO FOUNDATION PLAN FOR DIMENSIONS AND TO ARCHITECTURAL PLANS FOR DIMENSIONS NOT SHOWN.
4. SEE DETAIL 1/S2.3 FOR ROOF PANEL SIZE AND ATTACHMENT..
5. VERIFY LOCATIONS AND AMOUNTS OF ALL HEADERS.
6. METAL STUD WALL SHOP DRAWINGS SHALL PROVIDED FOR REVIEW AND APPROVAL.
7. STUD SPACING SHALL NOT EXCEED 60" O.C. ON UPPER LEVEL (OR SINGLE STORY BUILDING) AND 30" ON LOWER LEVEL. ADDITIONALLY POINTS LOADS FROM STUDS ARE DESIGNED TO STACK FROM FLOOR-TO-FLOOR. CONTACT EOR IF STUDS DO NOT ALIGN.
8. STUD WALL SIZES AND CONNECTIONS DIFFERING FROM THOSE SHOWN ON THESE PLANS MAY BE SUBMITTED FOR APPROVAL. PROVIDED THE ALTERNATES ARE PROVIDED IN THE FORM OF A SIGNED AND SEALED SHOP DRAWING BY A LICENSED PROFESSIONAL. NOTE THAT ANY PARTS OMITTED FROM THESE PLANS SHALL BE CONSIDERED THE DESIGNATED ENGINEER RESPONSIBILITY THROUGH SHOP DRAWINGS.
9. EXTERIOR WALL PANELS REQUIRE MID-HEIGHT WALL GIRT OR BRACING AT THIRD POINTS FOR SUPPORT. SEE DETAIL 2 ON S6
10. SEE DETAIL 3 ON S6 FOR PARTITION WALL INTERSECTION W/ BEARING WALL.

BUILDING 1 - LIGHT GAGE METAL STUD SCHEDULE				
LOCATION	STUD HEIGHT	SIZE	SPACING	LATERAL BRACING LOCATIONS
FIRST FLOOR EXTERIOR WALLS - METAL PANELS	VARIABLES	4Cx2 1/2x16GA (50 KSI)	60" MAX.	60" O.C. BRACING
FIRST FLOOR INTERIOR BEARING WALLS	VARIABLES	4Cx2 1/2x16GA (50 KSI)	60" MAX.	SHEATHED ONE SIDE

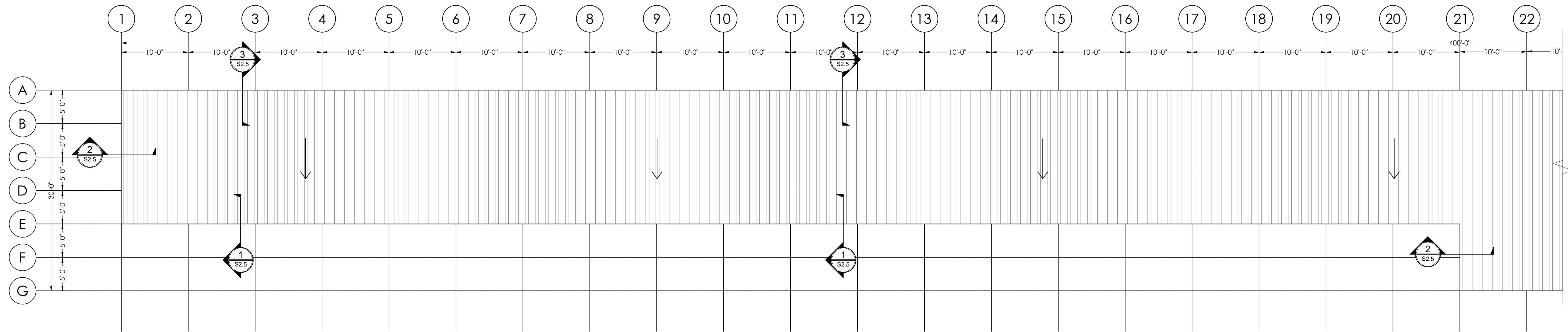
CLADDING SCHEDULE			
PANEL TYPE	LOCATION	MATERIAL	GIRT/PURLIN - WALL/ROOF PANEL BRACE SPACING
U PANEL BY VENDOR	INTERIOR WALL	29 GA.	INTERIOR STUD SPACING = 5.0 FT O.C
R PANEL BY VENDOR	EXTERIOR WALL	26 GA.	CORNER ZONE = 5.0 FT O.C INTERIOR ZONE = 5.0 FT O.C.
24 GA. STANDING SEEM BY VENDOR	ROOF	24 GA.	CORNER ZONE = 5.0 FT O.C PERIMETER ZONE = 5.0 FT O.C INTERIOR ZONE = 5.0 FT O.C

1. SUBMIT VENDOR CUT SHEETS/SHOP DRAWING INFORMATION FOR APPROVAL.
2. SEE MANUFACTURER REQUIREMENTS FOR INSTALLATION COMPONENTS AND TRIM COMPONENTS TO RESIST CLADDING PRESSURES

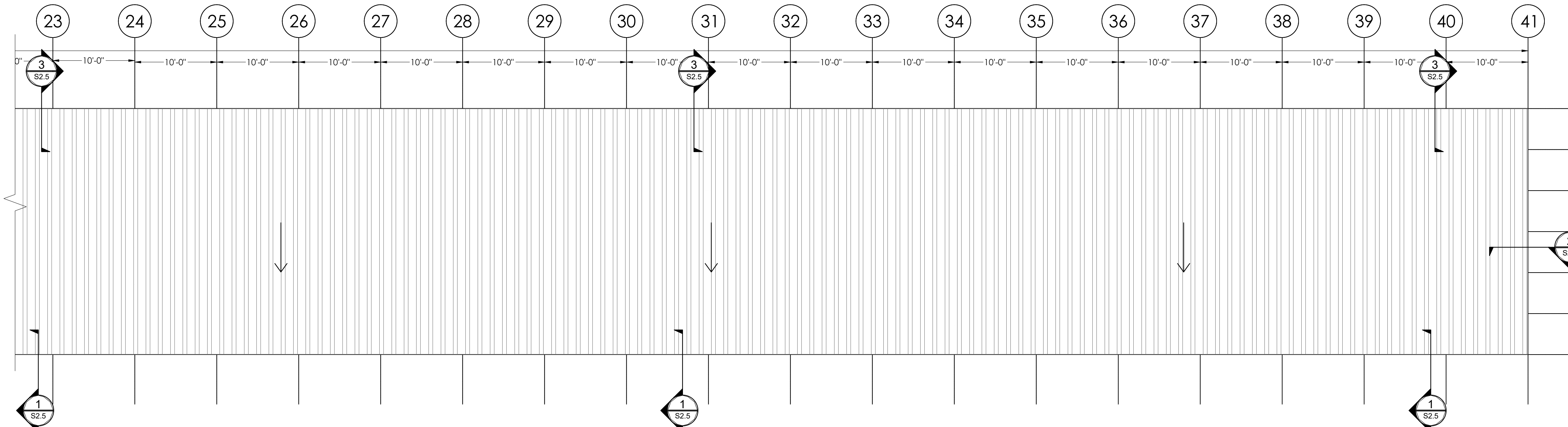
LINTEL SCHEDULE	
SIZE	NOTES
L3-1/2x3-1/2x5/16	UP TO 4'-0" OPENINGS
L4x4x3/8	4'-0" TO 6'-0" OPENINGS
L6x4x3/8 (LLV)	6'-0" TO 8'-0" OPENINGS
L7x4x7/16 (LLV)	8'-0" TO 10'-0" OPENINGS
CONTACT EOR	OPENINGS > 10'-0"

1. NO EXPANSION JOINTS MAY BE POSITIONED ON EITHER SIDE OF OPENING OF ABOVE OPENING. LINTEL IS DESIGNED WITH ARCHING AFFECT OF MASONRY ACCOUNTED.
2. FOR OPENINGS UP TO 8'-0" PROVIDE 6" BEARING ON EACH SIDE. FOR OPENING 8'-0" TO 10'-0", PROVIDE 8" BEARING ON EACH SIDE.
3. NO CONCENTRATED LOADS SHALL BE INSTALLED ABOVE LINTELS. IE, AWNING CONNECTIONS, ARCH FEATURES ETC.

LIGHT GAGE HEADER AND PURLIN SCHEDULE			
LABEL	SIZE	MATERIAL	NOTES
H1	SINGLE 8Cx3-1/2x14GA	50 KSI	SEE DETAILS 5 AND 6 ON S5
DH1	DOUBLE 6Cx2x14GA (50 KSI) W/ CRIPPLE STUDS AT 24" O.C.	50 KSI	SEE DETAIL 4 ON S6
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BH1	DOUBLE 6Cx2x16GA (50 KSI) W/ T&B TRACK TO FORM BOX HEADER	50 KSI	SEE DETAILS 5 AND 6 ON S6
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Z1	4"x2 1/2"x16 GA Zee Purlins	50 KSI	SEE DETAILS 2,3,4, AND 5 ON S5
Z2	12"x3 1/2"x14 GA Zee Purlins	50 KSI	SEE DETAILS 2,3,4, AND 5 ON S5



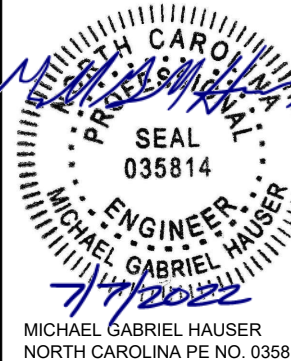
BUILDING D ROOFING PLAN
SCALE: 1/8" = 1'-0"



BUILDING D ROOFING PLAN
SCALE: 1/8" = 1'-0"



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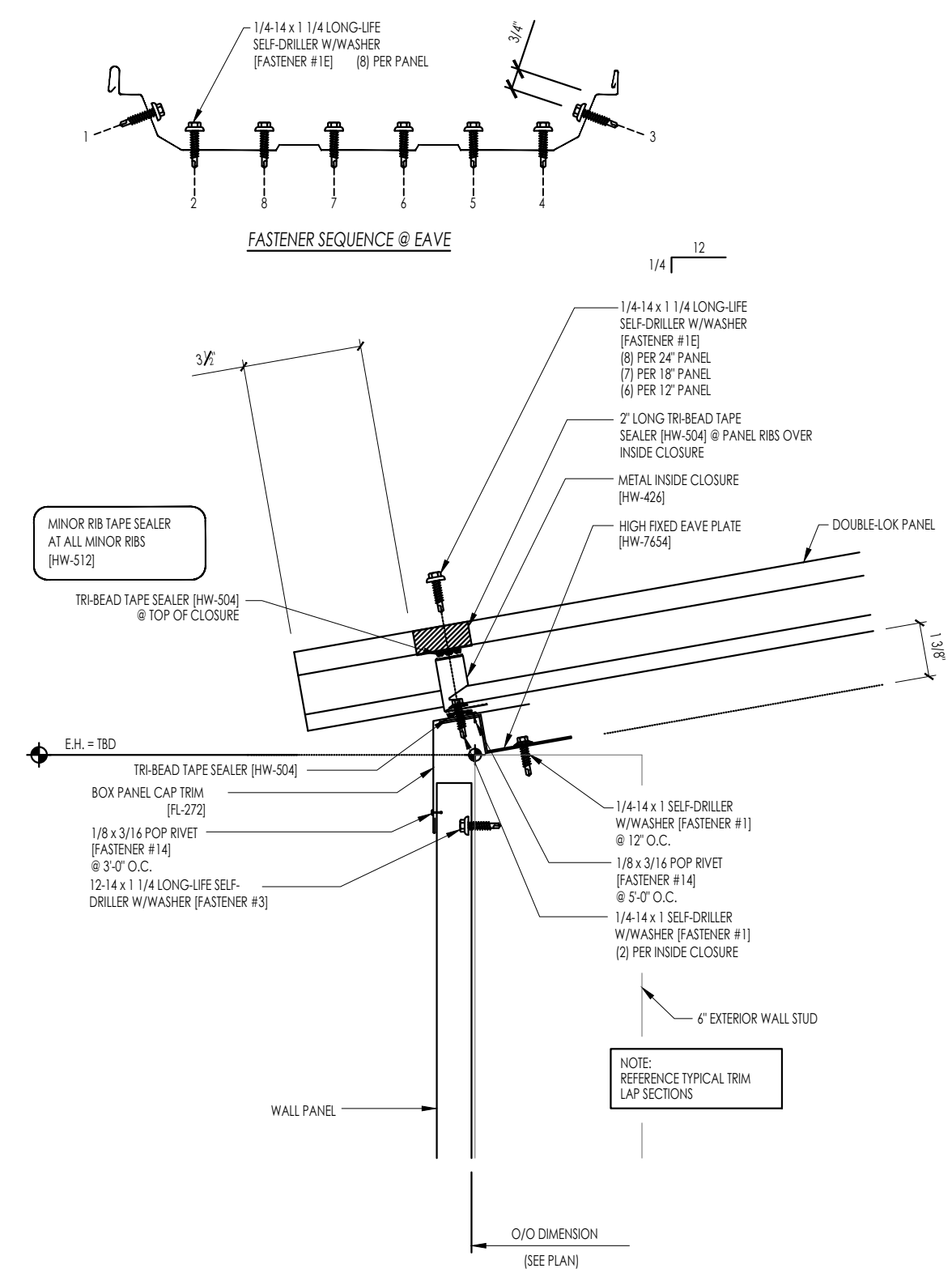
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ANGIER, NC

ISSUE DATE: 07.07.2022

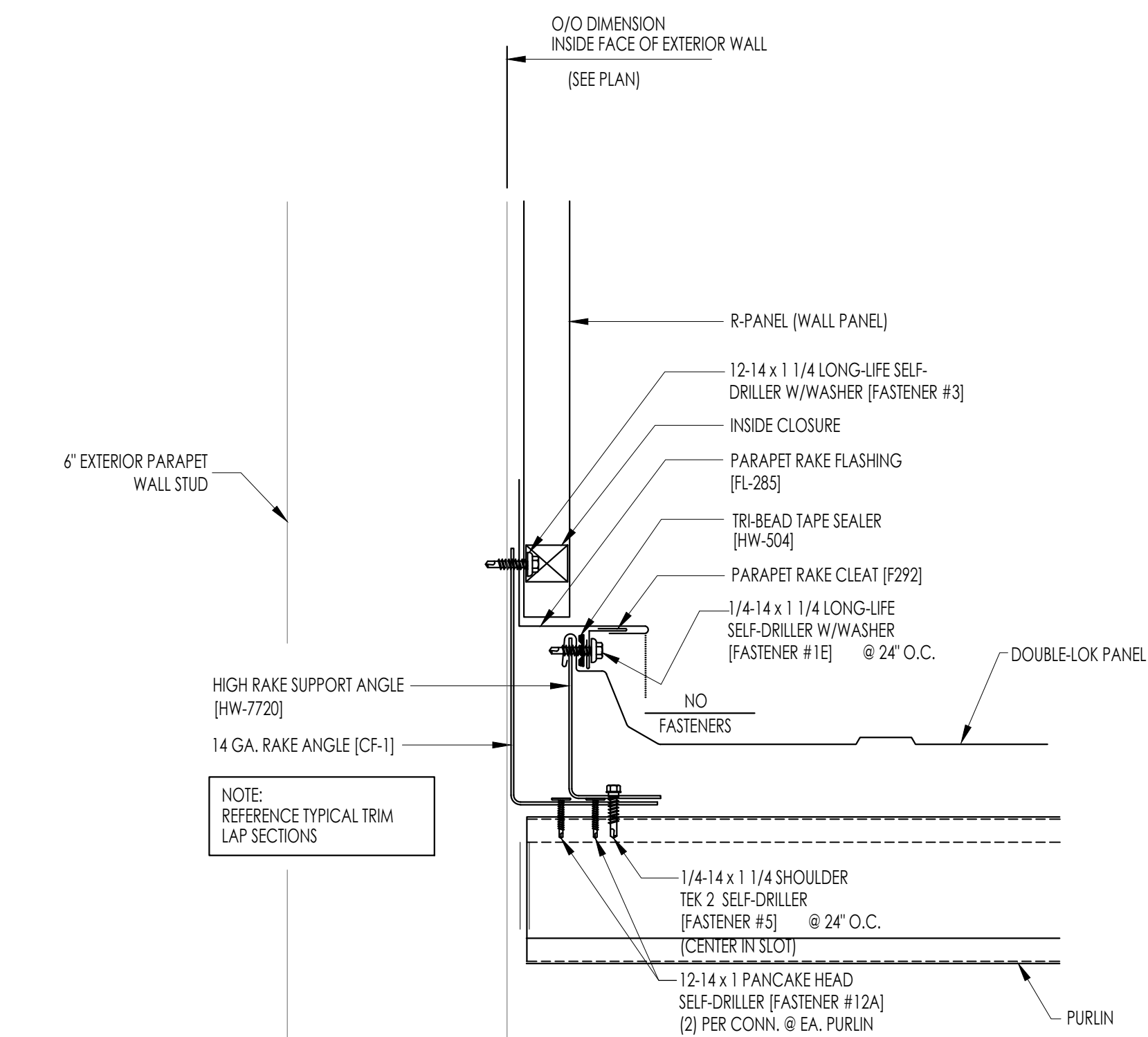
REV	DATE

ROOF DETAILS

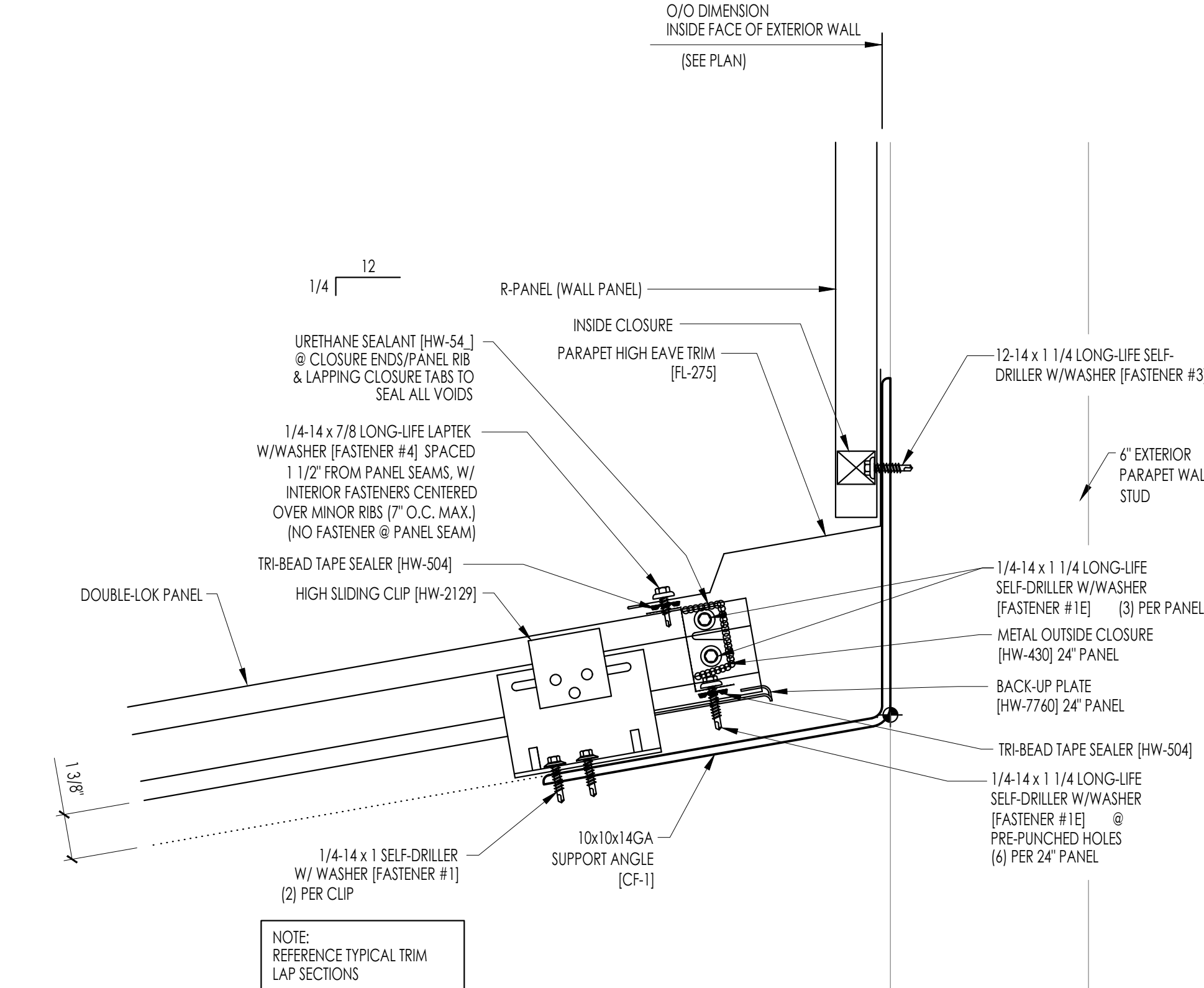
S2.4



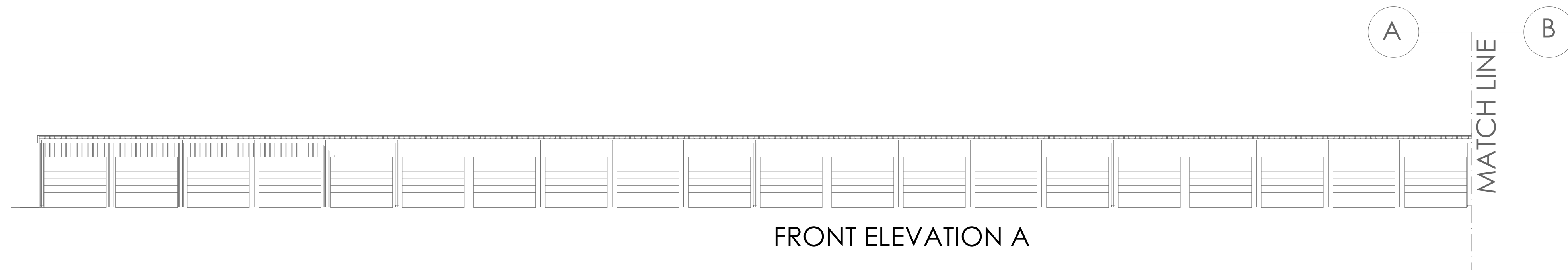
1 LOW EAVE NO GUTTER SECTION
S2.4 SCALE: N/A



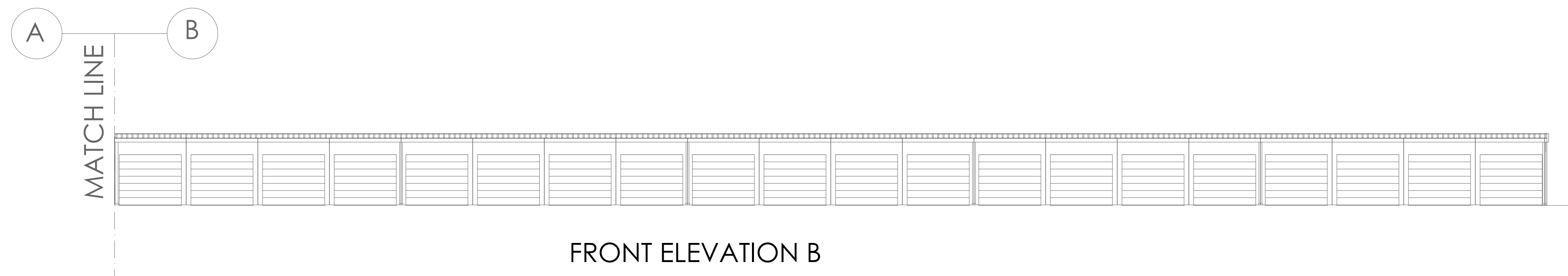
2 PARAPET RAKE TRIM SECTION
S2.4 SCALE: N/A



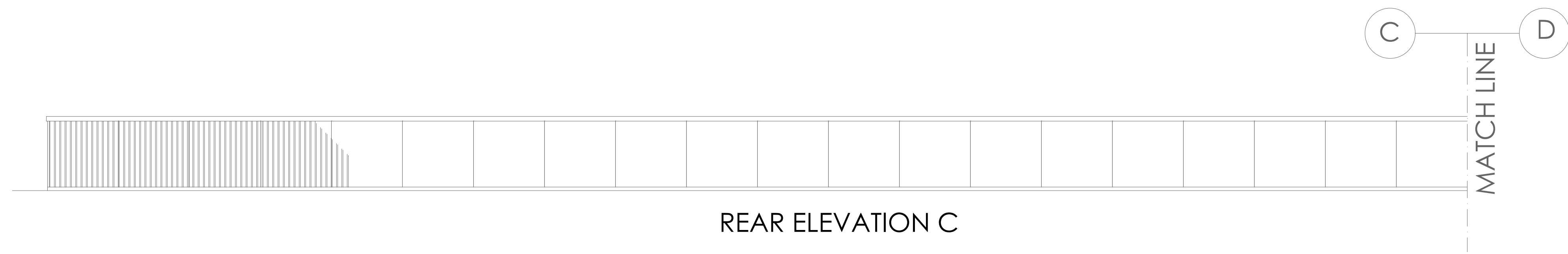
3 PARAPET HIGH EAVE TRIM SECTION
S2.4 SCALE: N/A



FRONT ELEVATION A



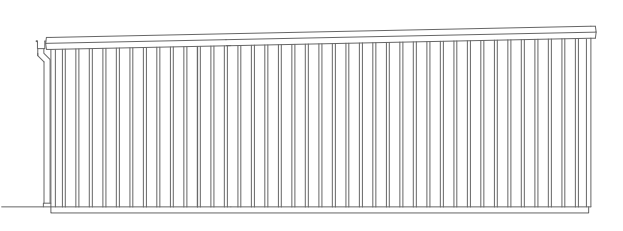
FRONT ELEVATION B



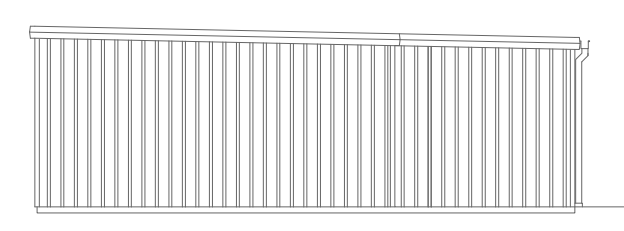
REAR ELEVATION C



REAR ELEVATION D



RIGHT SIDE ELEV.



LEFT SIDE ELEV.

HAUSER-CREECH, INC.
PROJECT # 22-10X-00X

MICHAEL GABRIEL HAUSER
NORTH CAROLINA PE NO. 035814

hc HAUSER-CREECH
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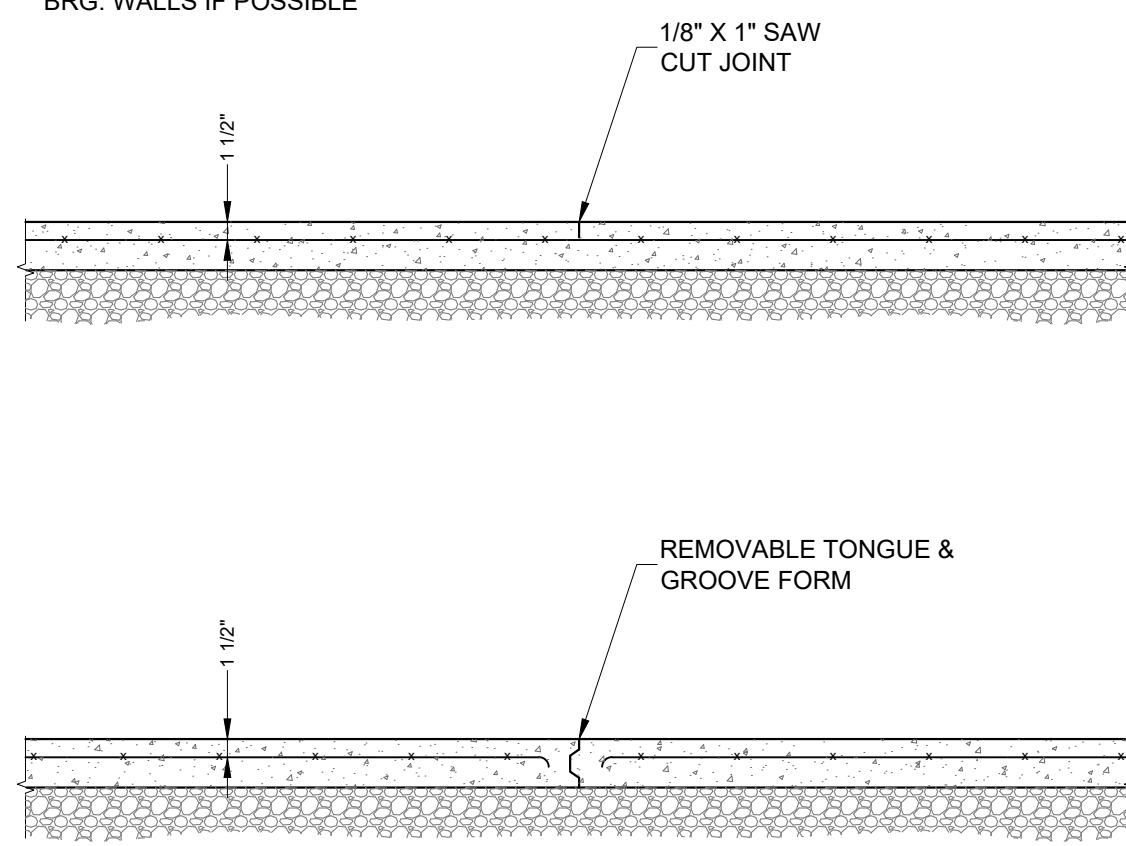
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ANGIER, NC

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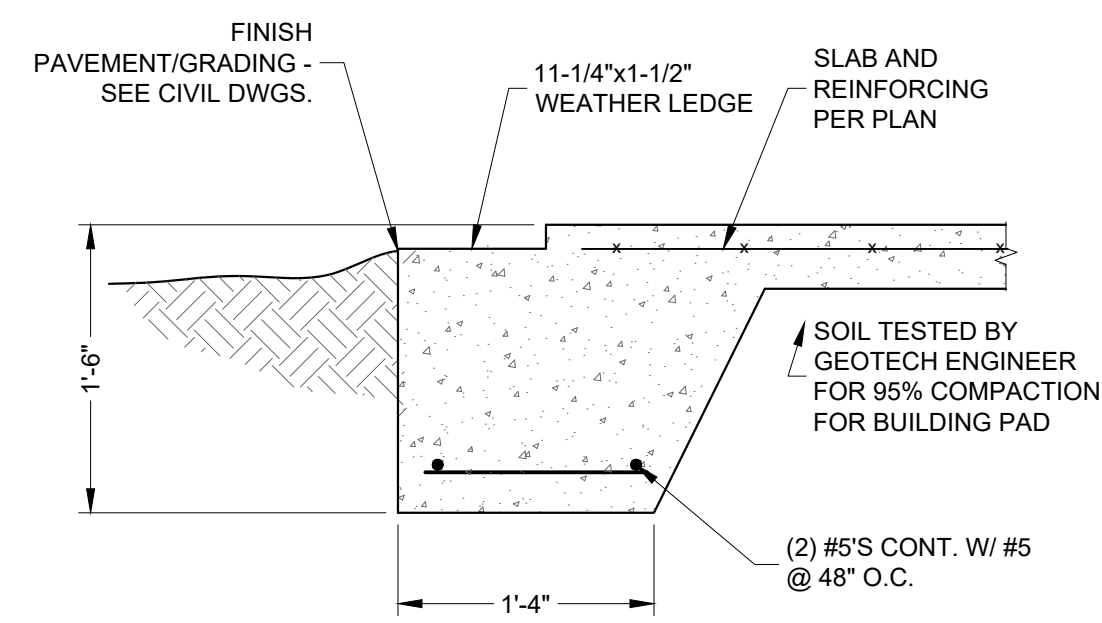
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BUILDING D
ELEVATIONS
S3.3

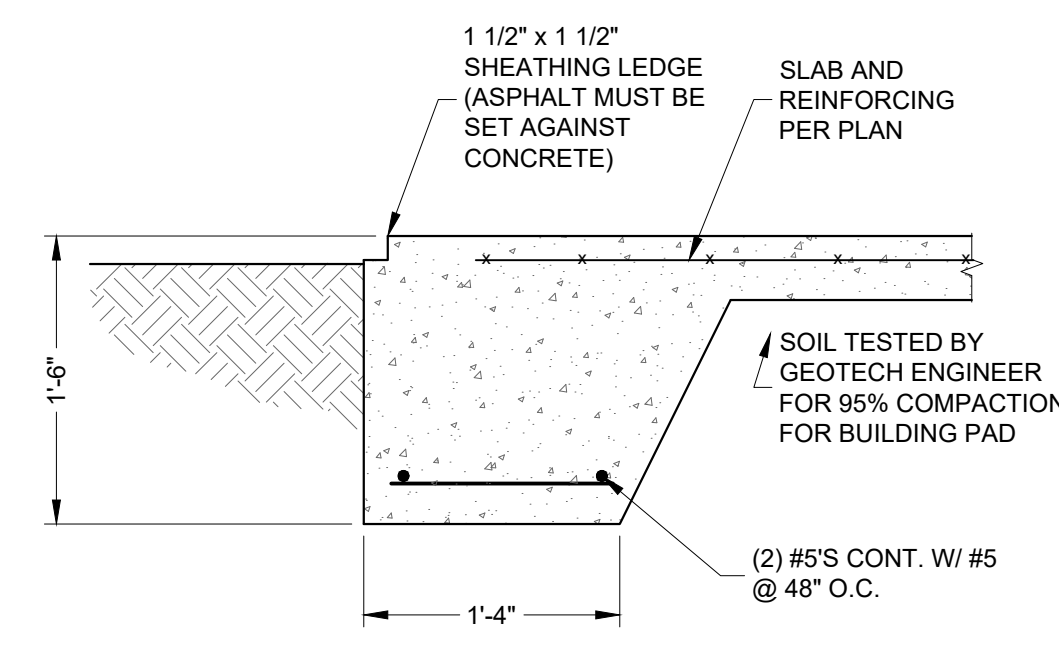
NOTE:
 MAXIMUM JOINT SPACING SHALL
 BE 20 FT. IN EACH DIRECTION
 UNLESS SHOWN OTHERWISE ON PLAN
 LOCATED UNDER NON-LOAD
 BRG. WALLS IF POSSIBLE



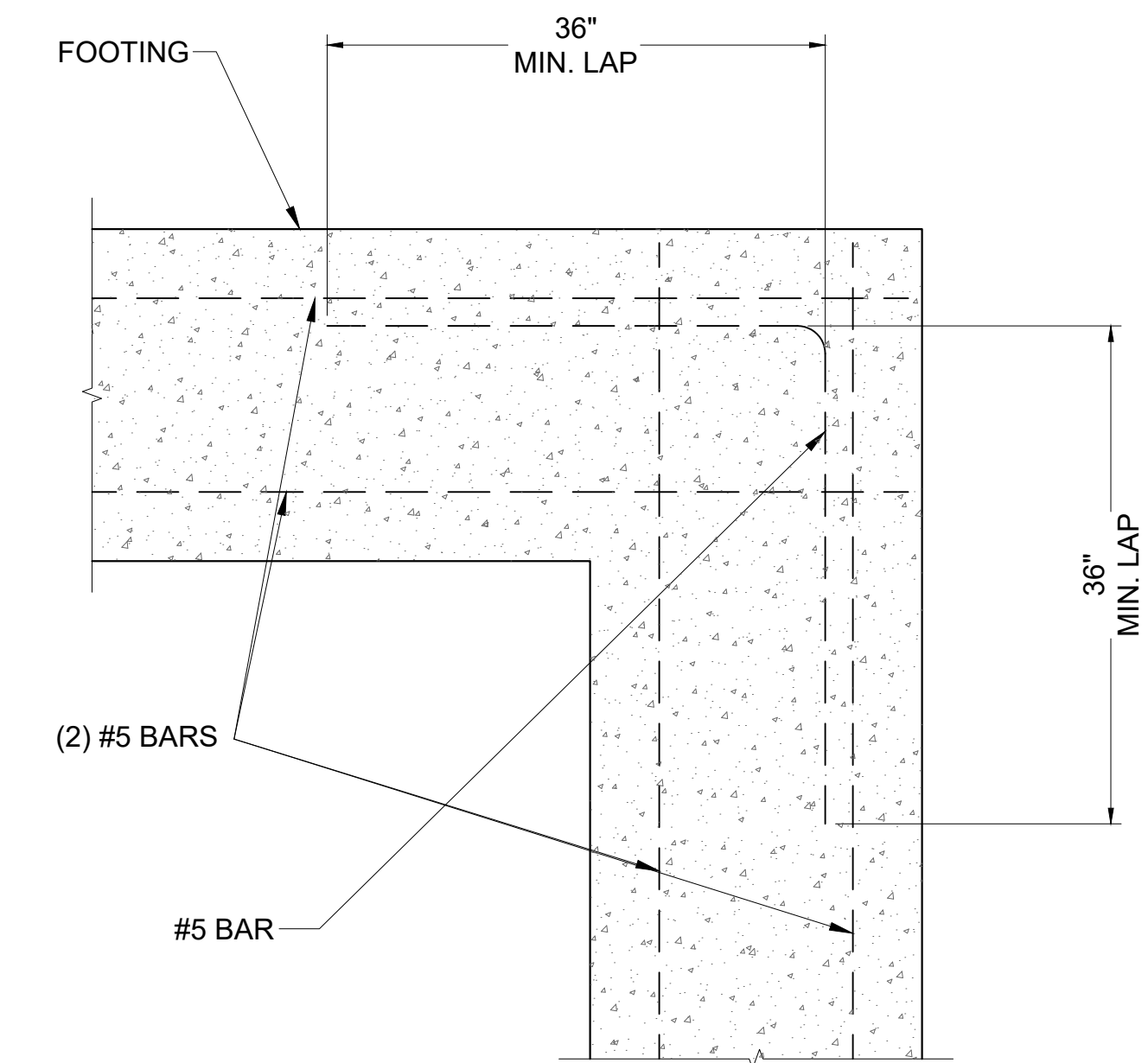
1 SLAB ON GRADE JOINTS
 SCALE: NONE



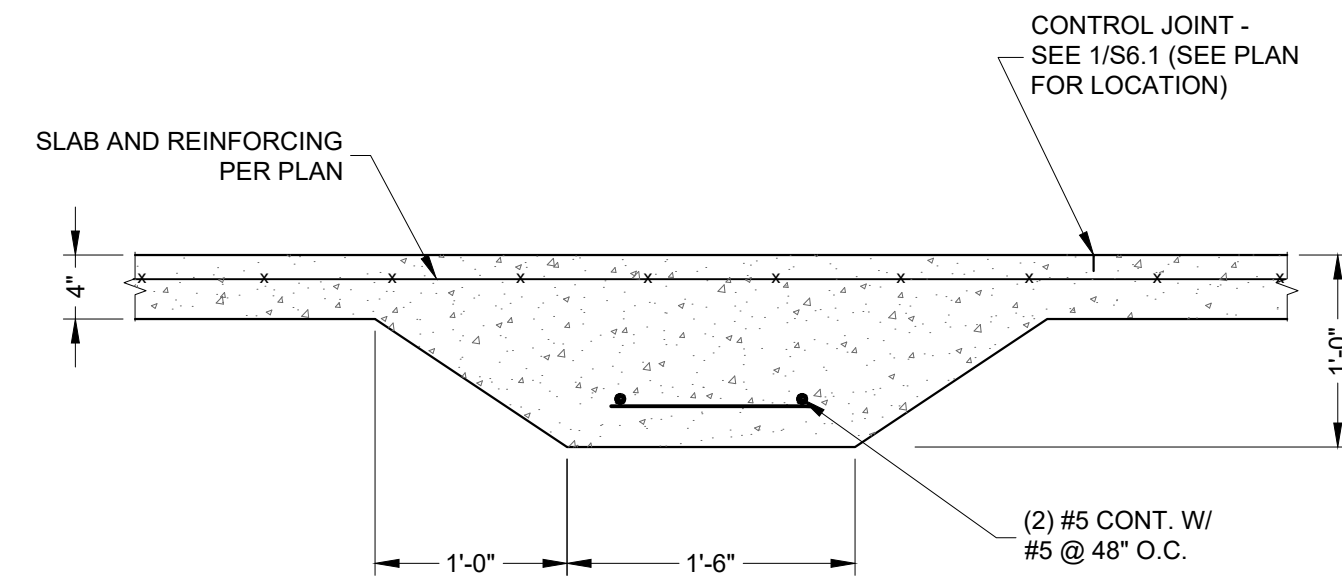
2 SECTION @ EXTERIOR WALL
 (WEATHER LEDGE)
 SCALE: NONE



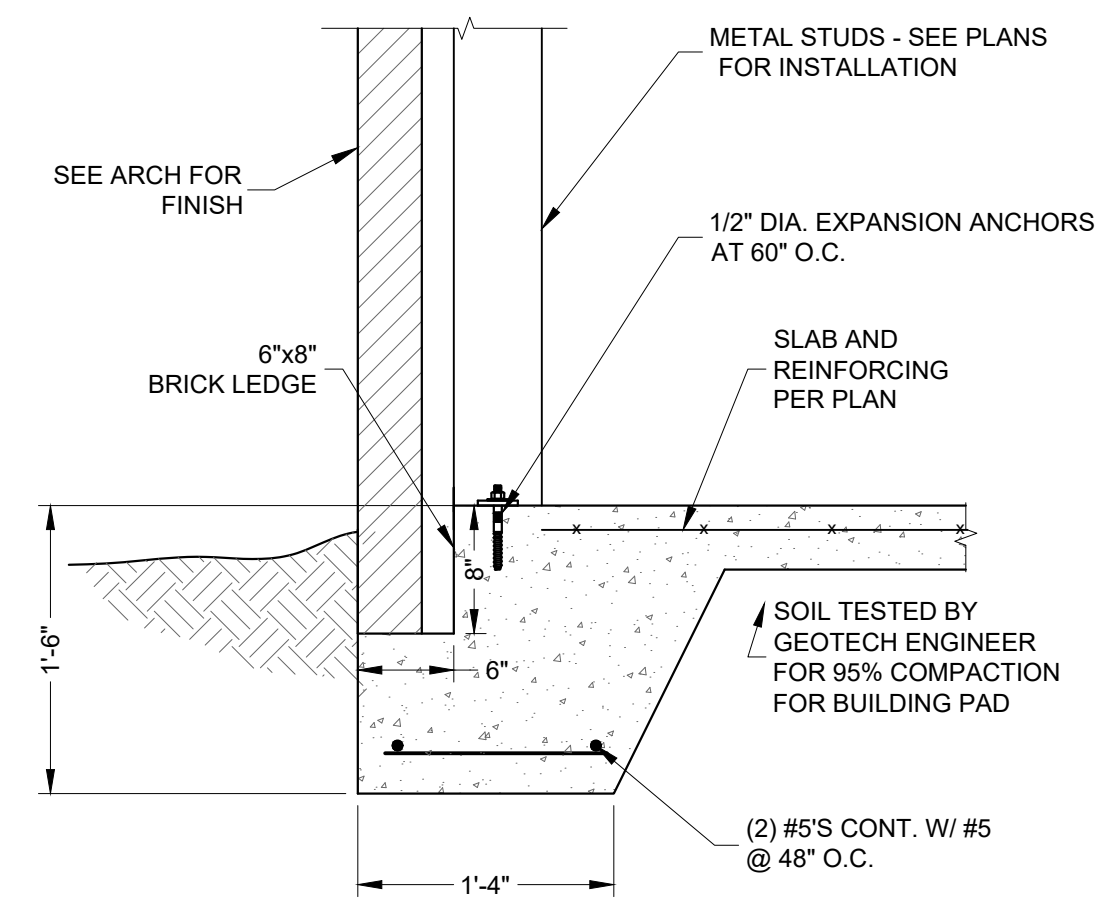
3 SECTION @ SHEATHING NOTCH
 SCALE: NONE



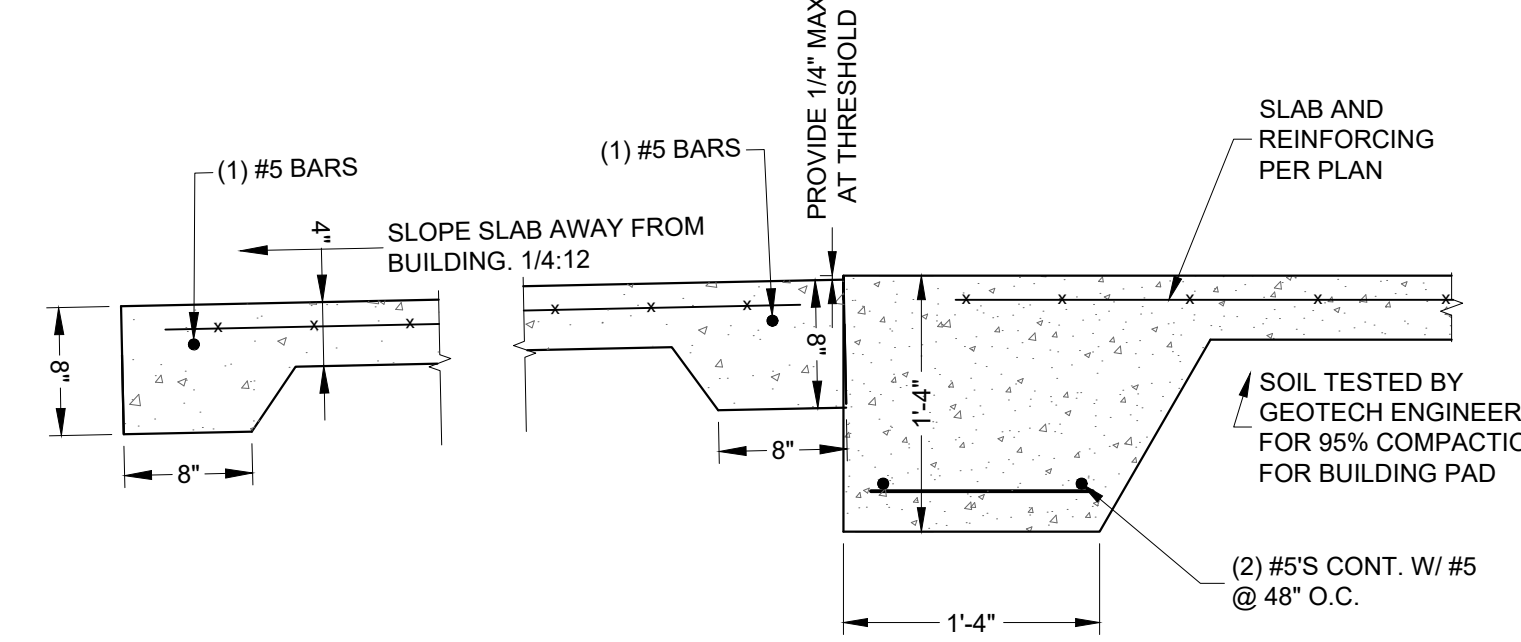
4 CONTINUITY CORNERS - ALL BUILDING CORNERS
 SCALE: NONE



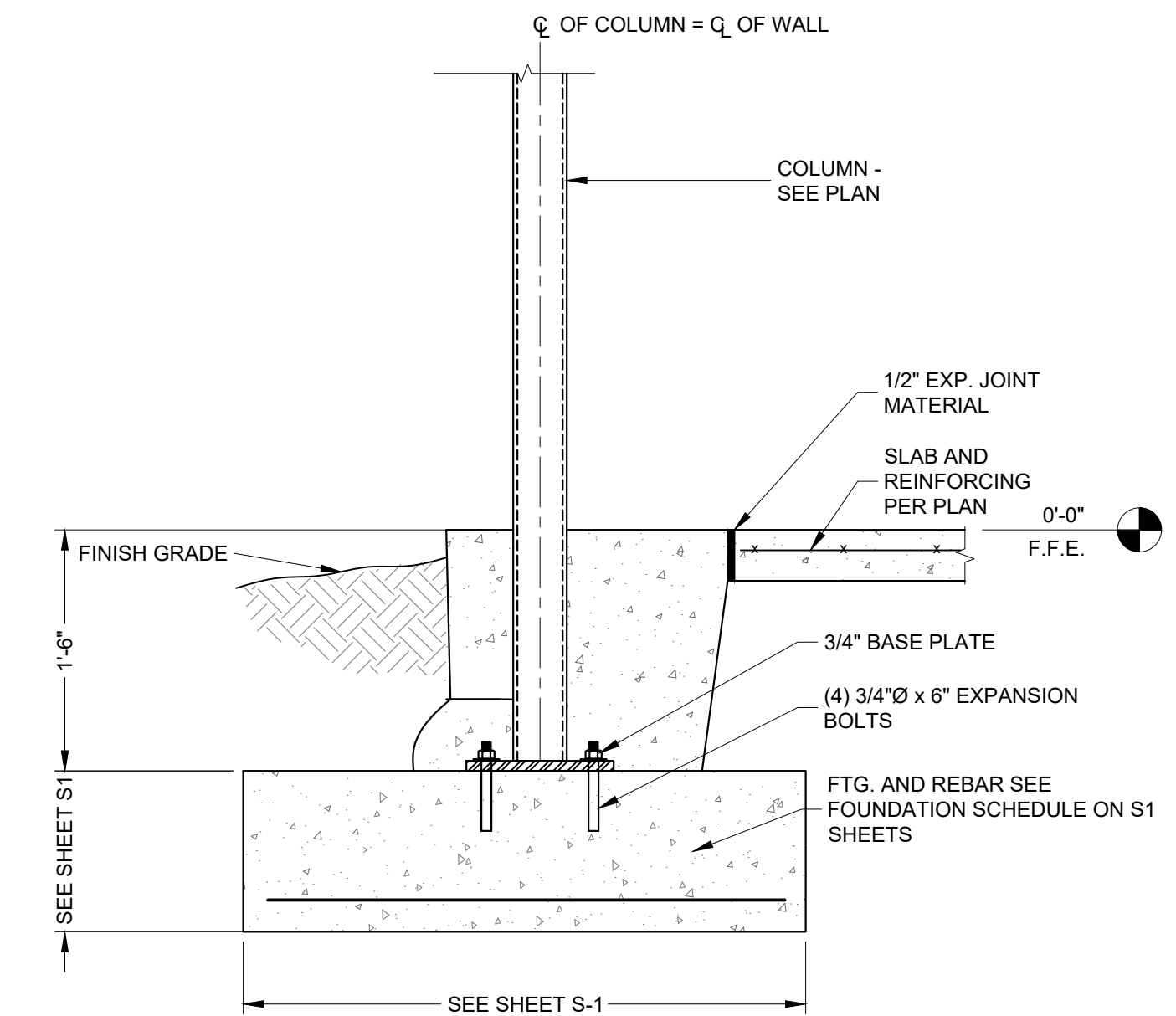
5 THICKENED SLAB
 SCALE: NONE



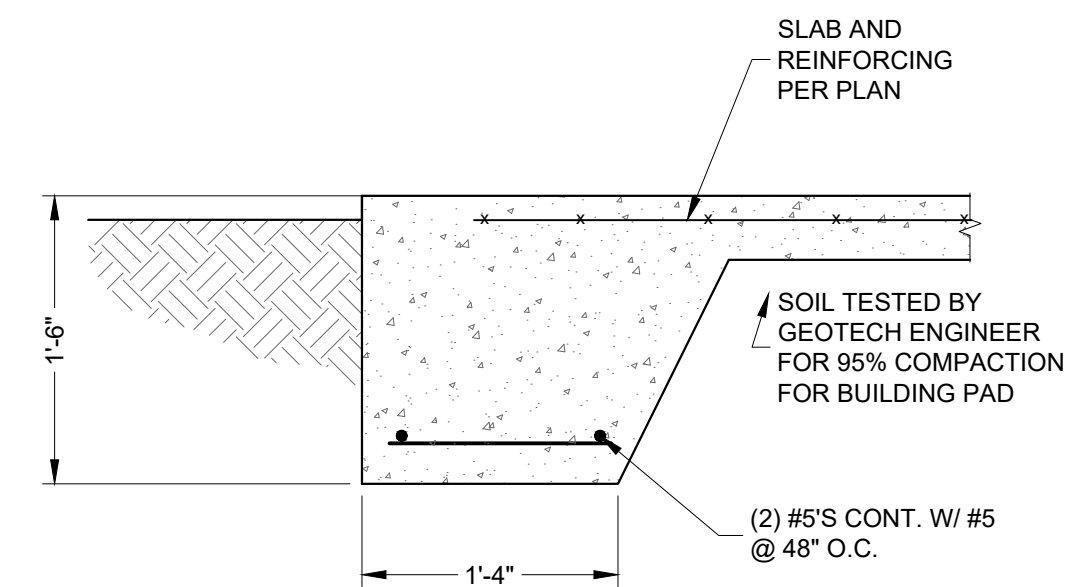
6 SECTION @ EXTERIOR WALL
 (BRICK LEDGE)
 SCALE: NONE



7 EXTERIOR ENTRY/ALCOVE PAD
 SCALE: NONE



8 EXTERIOR STEEL COLUMN
 SCALE: NONE



9 EXTERIOR AT TURN-DOWN
 SCALE: NONE

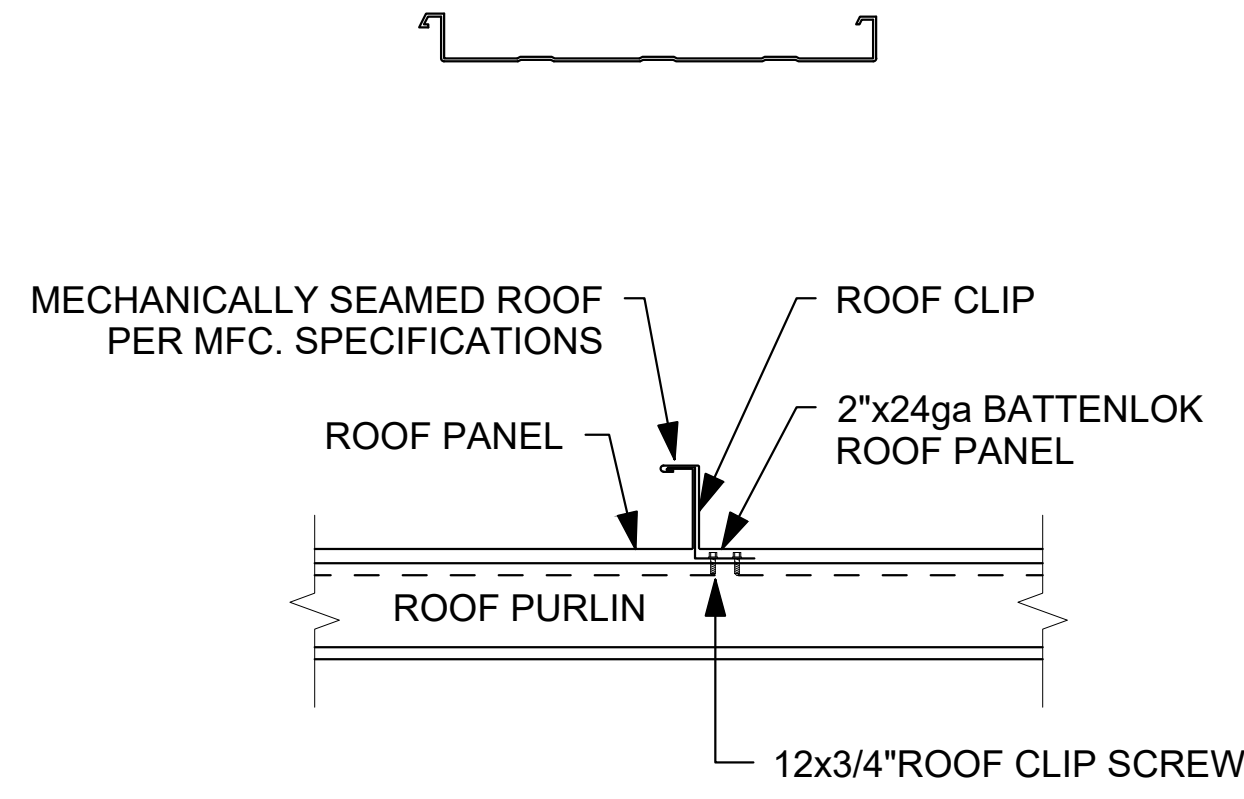


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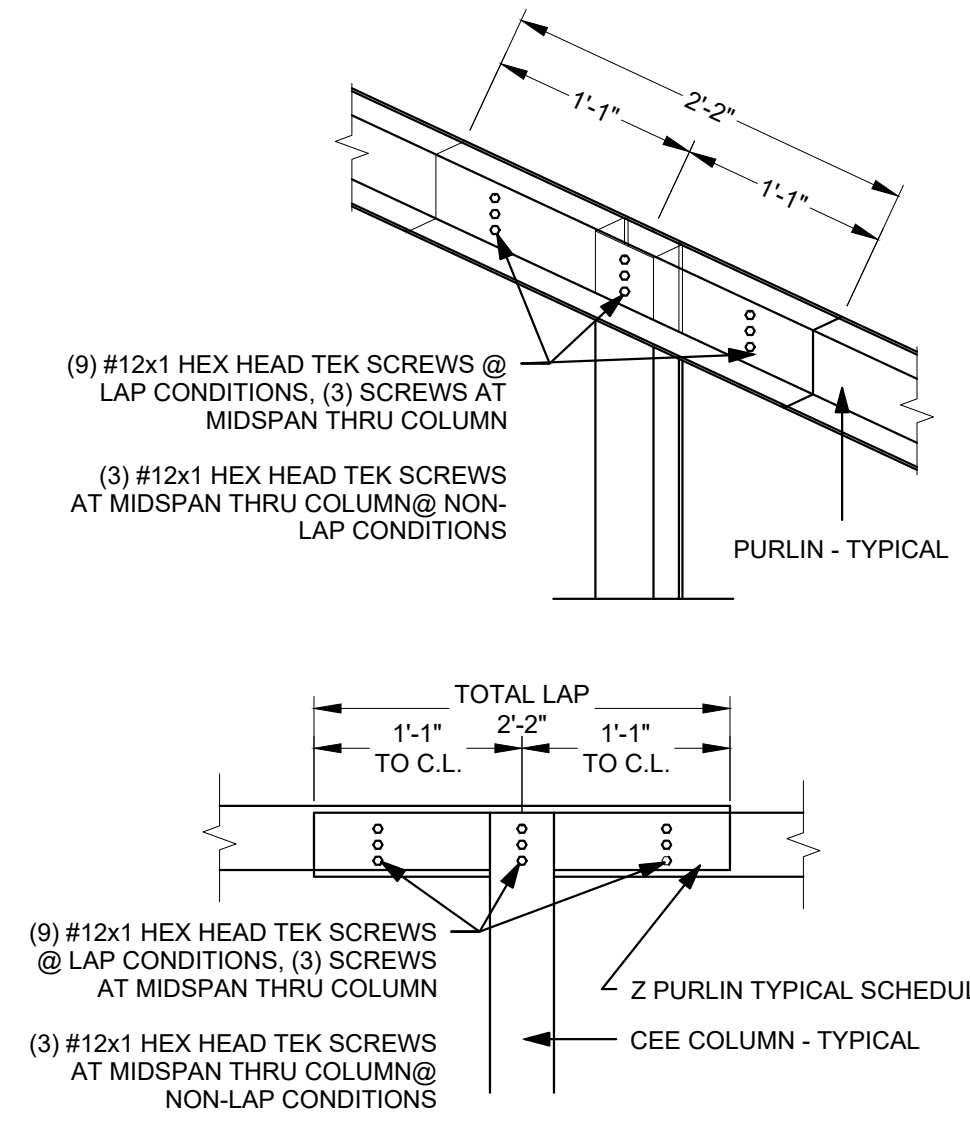
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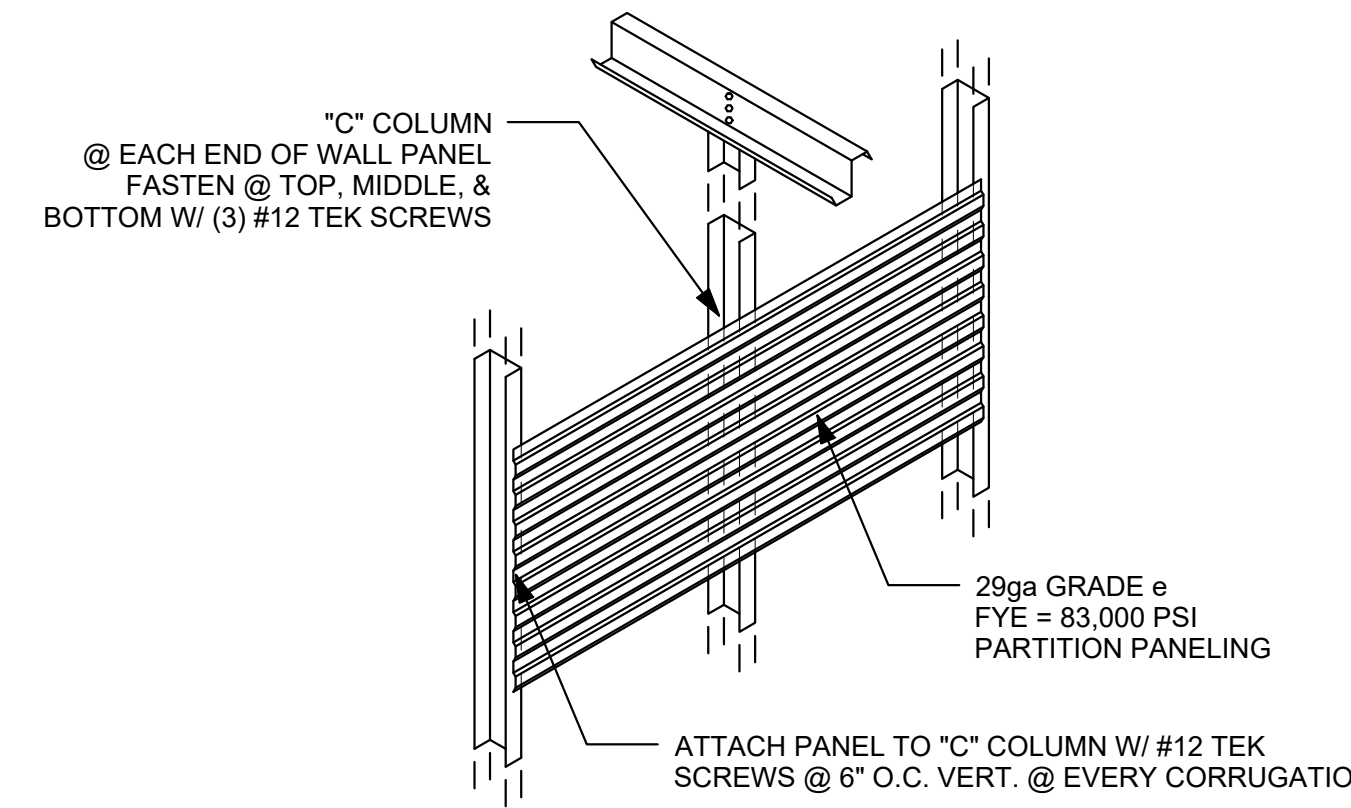
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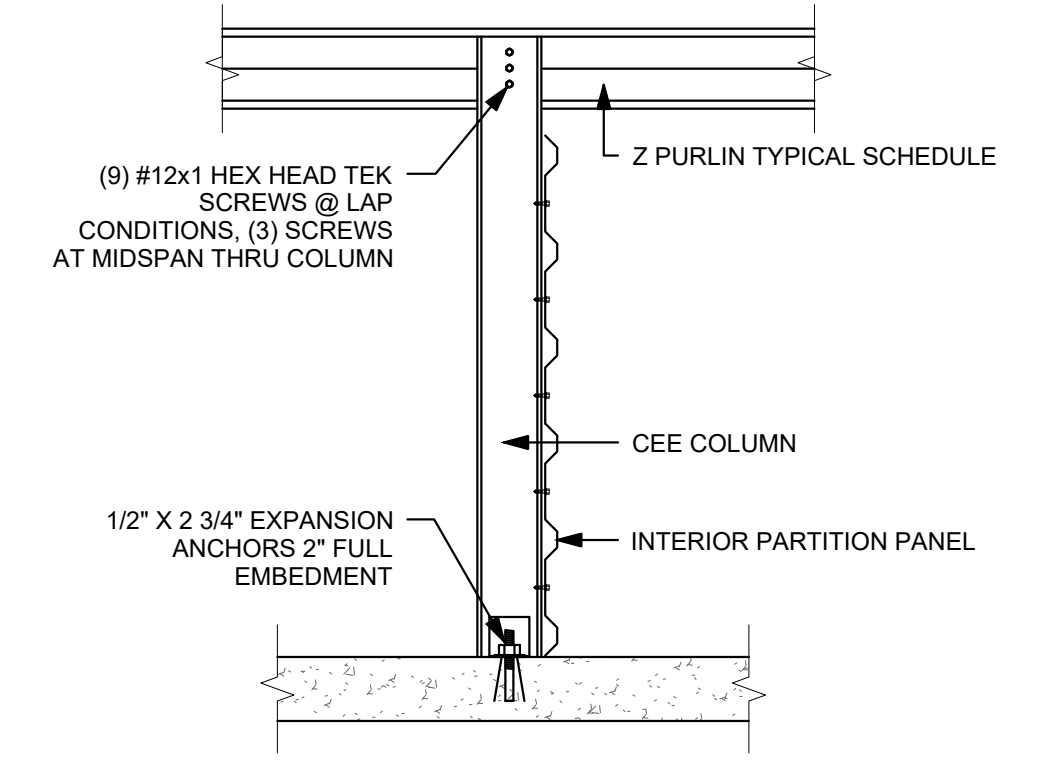
1 STANDING SEAM ROOF PANEL DETAIL
SCALE: NONE



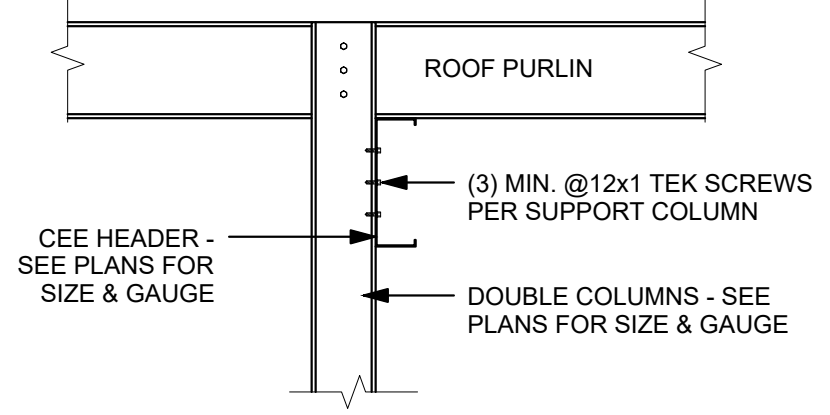
2 PURLIN CONNECTION/LAP
SCALE: NONE



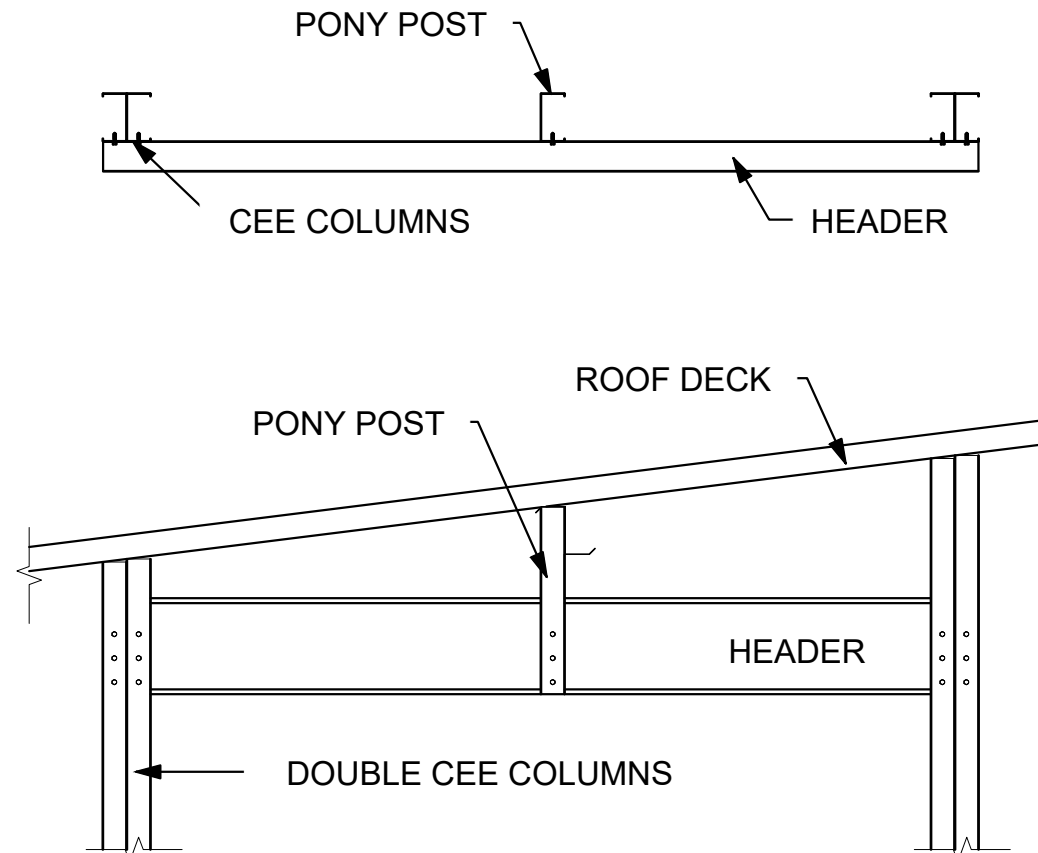
3 PURLIN SUPPORT WALL FRAMING
SCALE: NONE



4 PURLIN SUPPORT WALL CONNECTION
SCALE: NONE



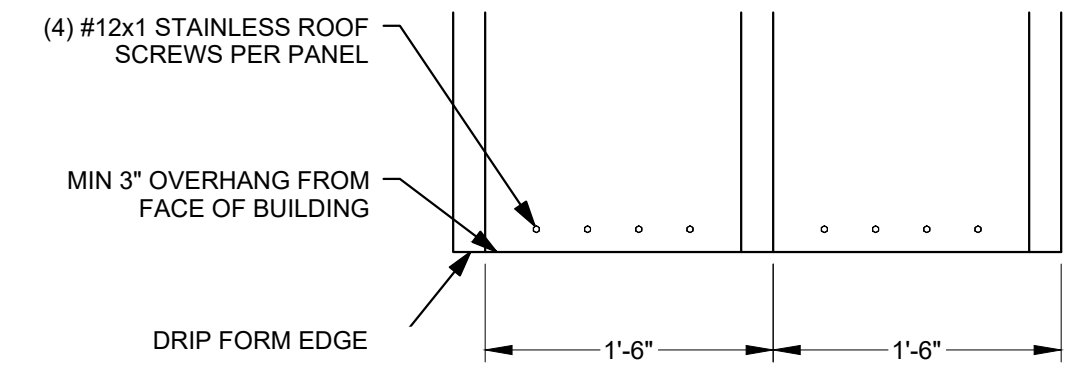
5 PURLIN SUPPORT - HEADER CONNECTION
SCALE: NONE



6 PURLIN SUPPORT - HEADER CONNECTION
SCALE: NONE

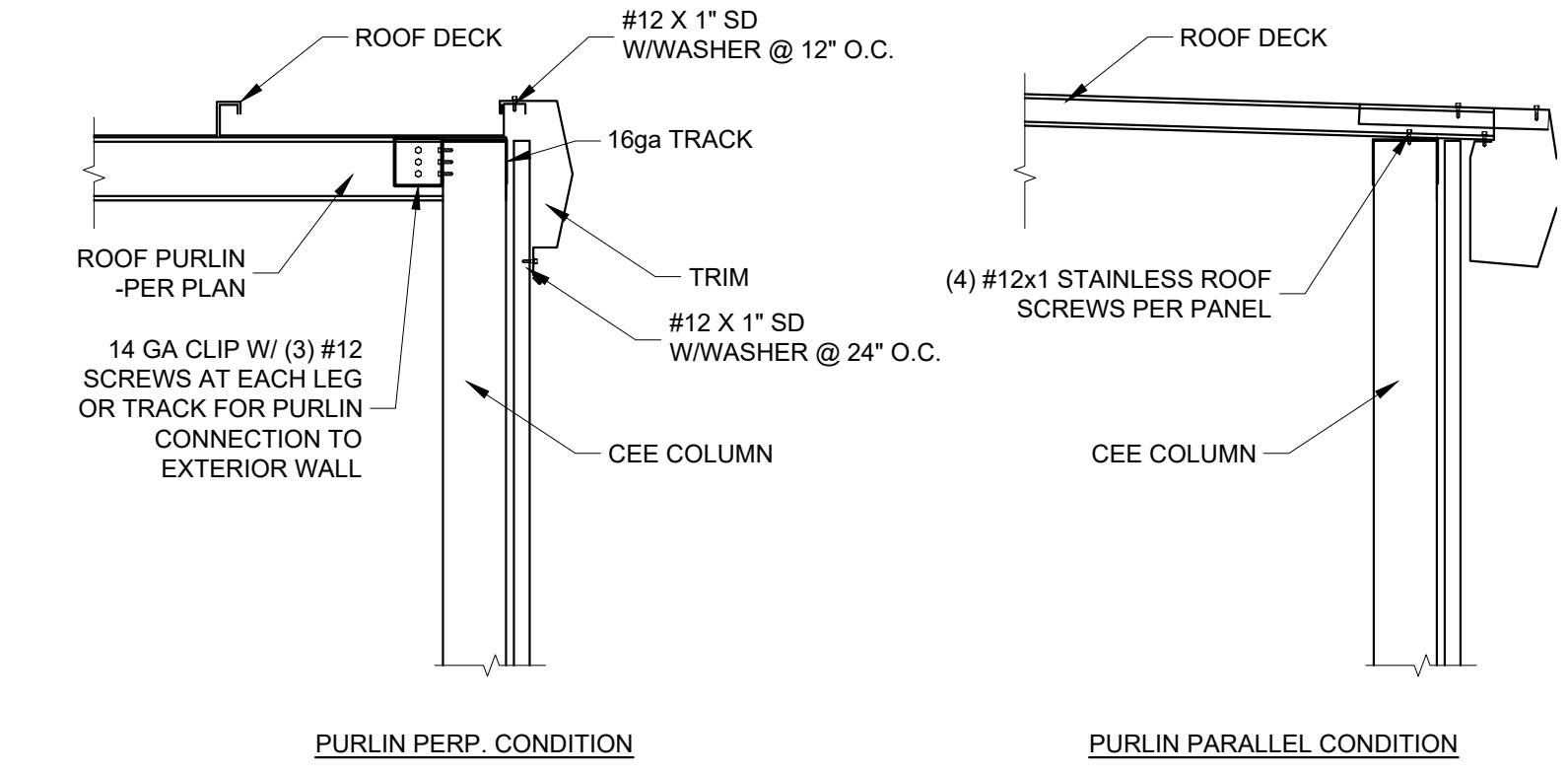
7 DETAIL NOT USED
SCALE: NONE

8 DETAIL NOT USED
SCALE: NONE



9 DETAIL NOT USED
SCALE: NONE

10 DETAIL NOT USED
SCALE: NONE



12 ROOF CONNECTION AT EXTERIOR
SCALE: NONE

11 ROOF PANEL CONNECTION AT EAVE
SCALE: NONE

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PROJECT # 22-10X-00X
MICHAEL GABRIEL HAUSER
NORTH CAROLINA PE NO. 035814
SEAL 035814
ENGINEER

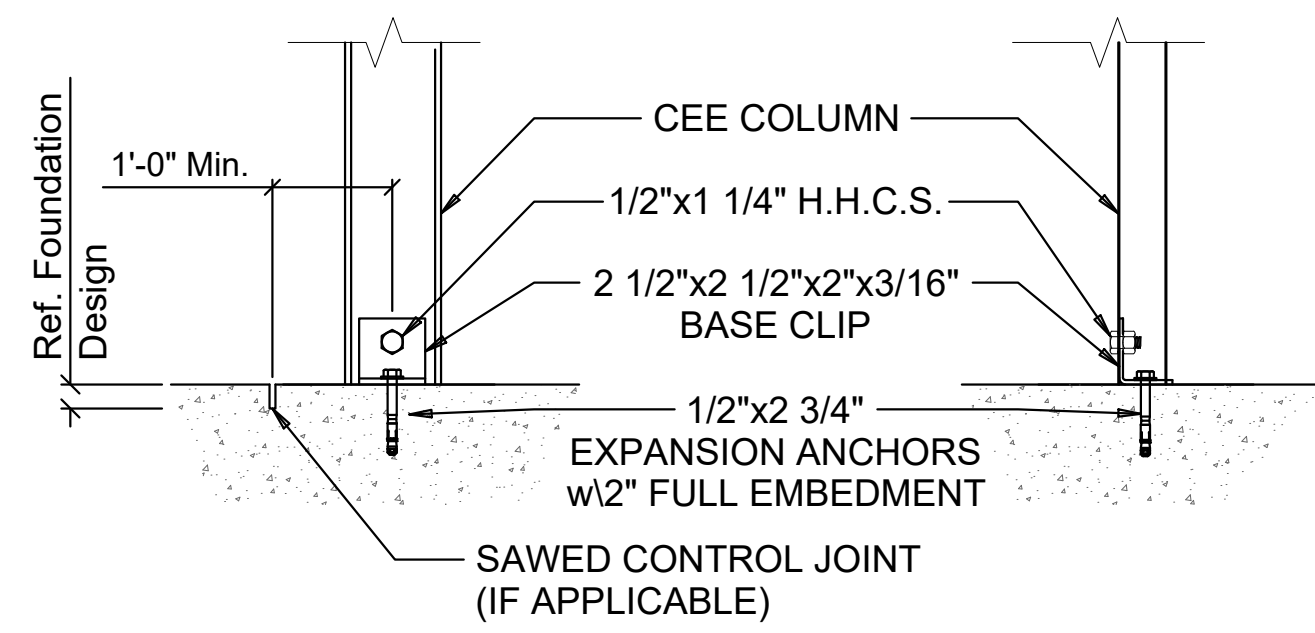
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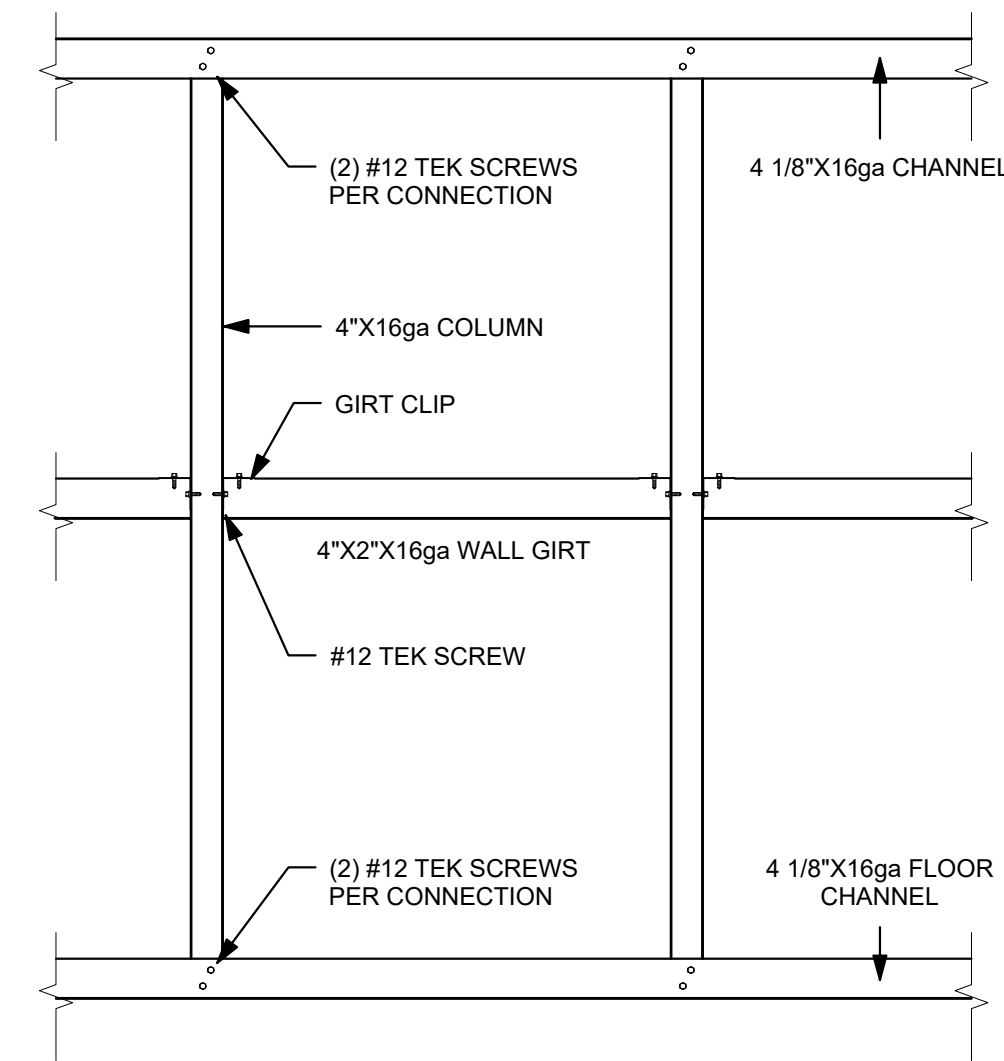
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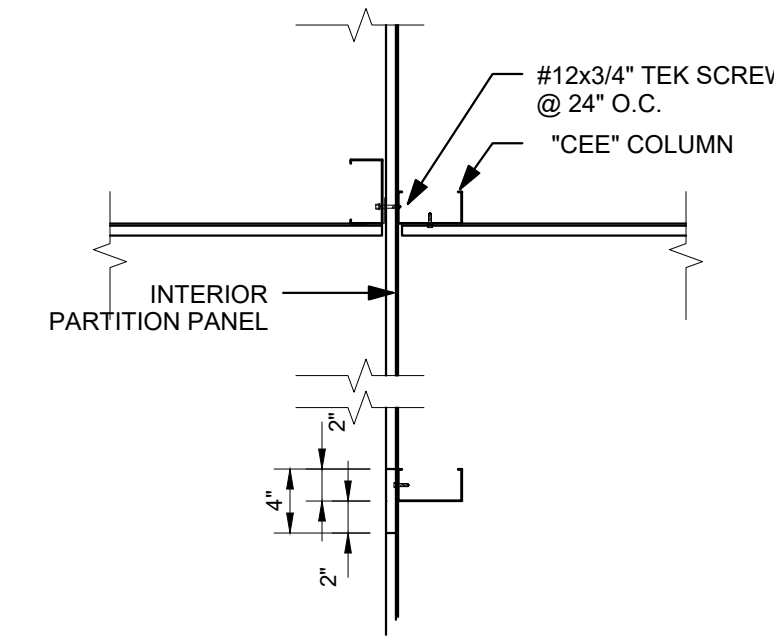
FRAMING DETAILS
S5



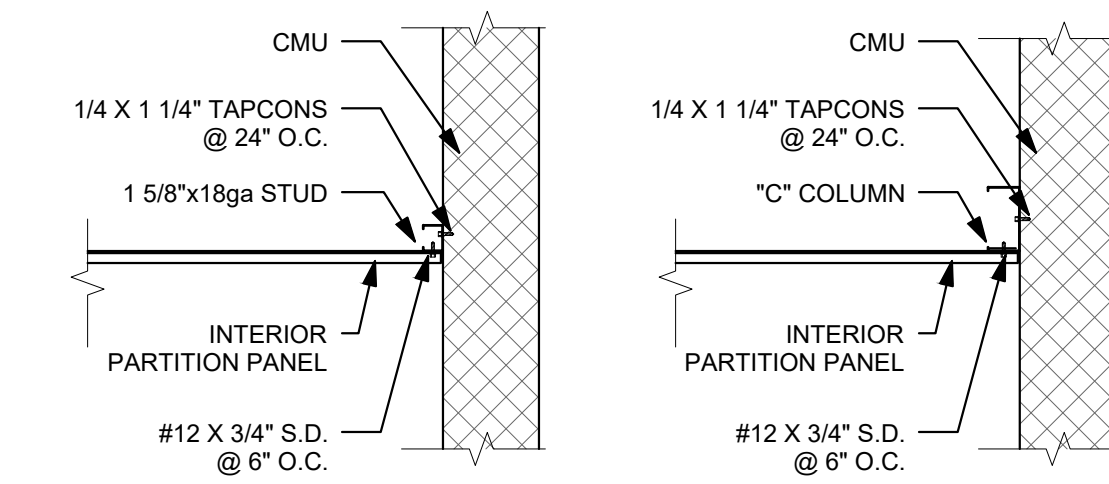
1 **FIRST FLOOR - LATERAL WALL BRACING**
SCALE: NONE



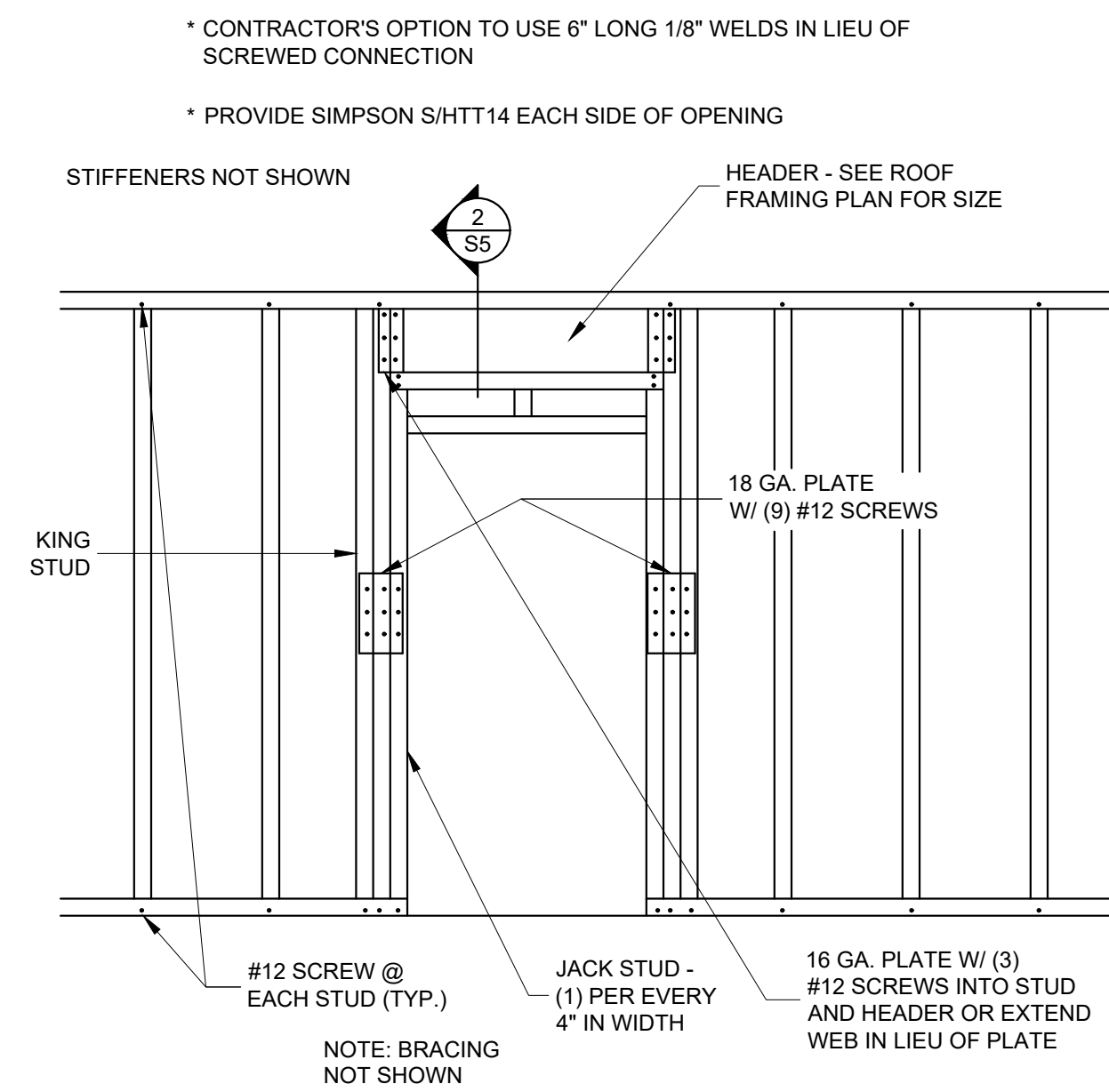
2 **SECTION**
SCALE: NONE



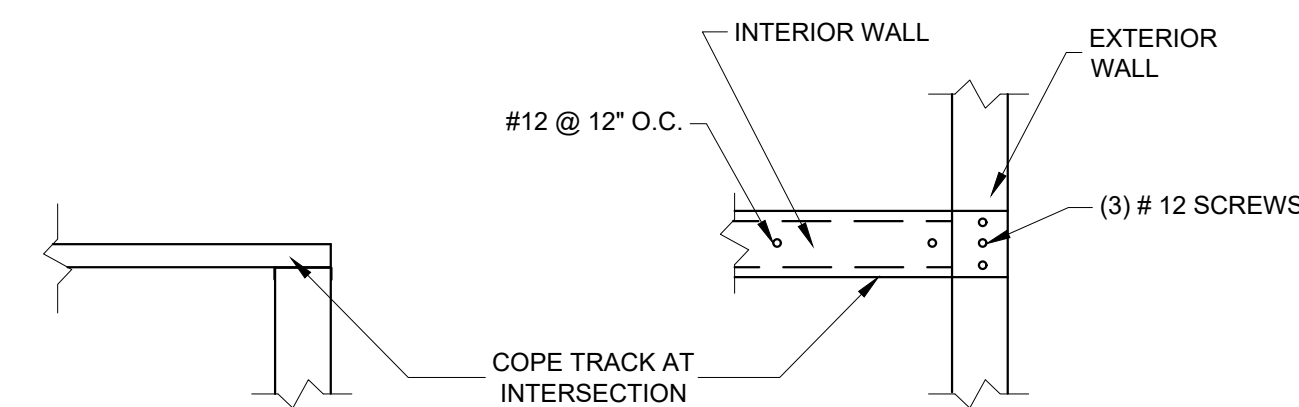
3 **PARTITION WALL INTERSECTION W/ BEARING WALL**
SCALE: NONE



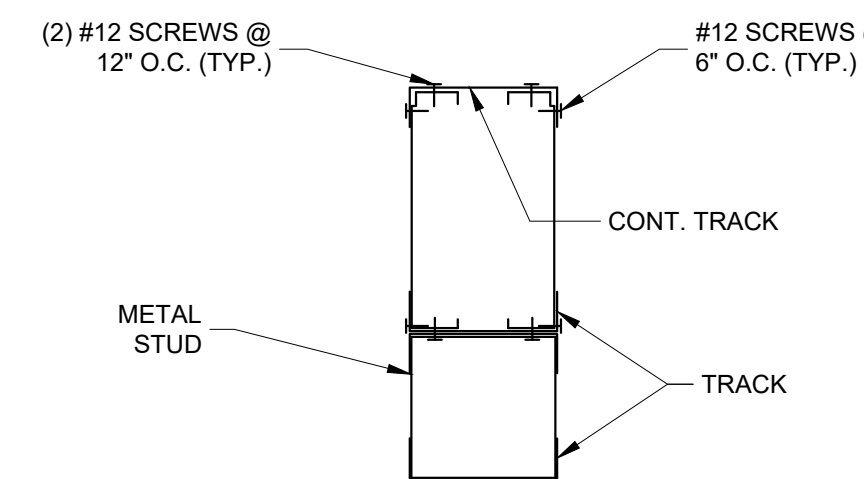
4 **METAL WALL @ SHAFT**
SCALE: NONE



5 **DOUBLE HEADER - COMPOSITE SLAB LATERAL SUPPORT**
SCALE: NONE



ELEVATION VIEW
INTERSECTION OF INTERIOR AND EXTERIOR WALLS
ATTACH SHEATHING AND WALLBOARD TO STUDS @ 7" O.C. U.N.O.
PROVIDE DETAIL AT WALL BETWEEN EACH UNIT



6 **PURLIN SUPPORT - HEADER CONNECTION**
SCALE: NONE



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GENERAL ELECTRICAL NOTES:

ADMINISTRATIVE:

- THE FOLLOWING ABBREVIATIONS SHALL APPLY TO NOTES AND PLANS:
PC - PLUMBING CONTRACTOR, EC - ELECTRICAL CONTRACTOR,
MC - MECHANICAL CONTRACTOR, GC - GENERAL CONTRACTOR,
FASO - FIRE ALARM SYSTEM CONTRACTOR, AHJ - AUTHORITY HAVING JURISDICTION.
- "PROVIDE" MEANS TO FURNISH AND INSTALL. THE ELECTRICAL CONTRACTOR SHALL ALSO INSTALL MATERIALS AND EQUIPMENT FURNISHED BY OTHERS AND THE GENERAL CONTRACTOR AS REQUIRED.
- EC SHALL PROVIDE LABOR, MATERIALS, EQUIPMENT, AND SERVICES NECESSARY AND REASONABLY INCIDENTAL TO INSURE A COMPLETE AND OPERATIONAL ELECTRICAL SYSTEM IN ACCORDANCE WITH THESE PLANS AND SPECIFICATIONS. MINOR ITEMS, ACCESSORIES, AND DEVICES REASONABLY INFERRABLE AS NECESSARY FOR THE COMPLETION AND PROPER OPERATION OF ANY ELECTRICAL SYSTEM SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- WORKMANSHIP SHALL BE IN ACCORDANCE WITH NECA 1 "STANDARD PRACTICE FOR GOOD WORKMANSHIP IN ELECTRICAL CONTRACTING."
- ALL MATERIALS AND EQUIPMENT SHALL BE DELIVERED TO THE SITE AND UNLOADED BY THE ELECTRICAL CONTRACTOR AT AN APPROVED LOCATION. THE ELECTRICAL CONTRACTOR SHALL PROTECT ALL MATERIALS AND EQUIPMENT FROM BREAKAGE, THEFT, AND THE ELEMENTS. ALL MATERIALS AND EQUIPMENT SHALL REMAIN THE PROPERTY OF THE ELECTRICAL CONTRACTOR UNTIL THE PROJECT HAS BEEN COMPLETED AND TURNED OVER TO THE OWNER.
- THE ELECTRICAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, FEES, AND INSPECTIONS NECESSARY FOR THE COMPLETION OF THE WORK UNDER THIS CONTRACT.
- DO NOT SCALE THESE DRAWINGS-REFER TO ARCHITECTURAL SHEETS FOR DIMENSIONS.
- TRADE NAMES AND MANUFACTURERS ARE SPECIFIED TO ESTABLISH A QUALITY STANDARD. SUBSTITUTIONS SHALL BE PERMITTED IF APPROVED BY THE ENGINEER PRIOR TO INSTALLATION. ALL LISTED MODEL NUMBERS SHALL BE VERIFIED WITH THE MANUFACTURER FOR PROPER APPLICATION OF EQUIPMENT.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS. THE ELECTRICAL CONTRACTOR SHALL CONTACT THE ENGINEER TO RESOLVE ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THESE PLANS. THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER TRADES PRIOR TO THE START OF CONSTRUCTION.
- GROUNDING AND BONDING SHALL BE PER NEC ARTICLE 250. THE RACEWAY SYSTEM SHALL NOT BE RELIED UPON FOR GROUNDING CONTINUITY. A GREEN EQUIPMENT GROUNDING CONDUCTOR, SIZED PER NEC TABLE 250.122, SHALL BE RUN IN ALL POWER RACEWAYS. FOR NON-ISOLATED GROUND CIRCUITS PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. FOR ISOLATED GROUND CIRCUITS, PROVIDE ONE NEUTRAL AND ONE ISOLATED GROUND WIRE FOR EACH CIRCUIT. IN ADDITION, PROVIDE ONE EQUIPMENT GROUNDING CONDUCTOR PER CONDUIT RUN. MAIN BONDING JUMPERS AND SYSTEM BONDING JUMPERS SHALL BE INSTALLED IN ACCORDANCE WITH 250.28 OF THE NEC. FOR BUILDINGS OR STRUCTURES SUPPLIED BY FEEDERS OR BRANCH CIRCUITS, GROUNDING AND BONDING SHALL BE IN ACCORDANCE WITH 250.32. SEPARATELY DERIVED AC SYSTEMS SHALL BE GROUNDING IN ACCORDANCE WITH 250.30. RESISTANCE TO GROUND SHALL NOT EXCEED 25 OHMS; ADDITIONAL GROUNDING ELECTRODES SHALL BE INSTALLED PER 250.56 AS NECESSARY.
- THE ELECTRICAL CONTRACTOR SHALL ALSO COORDINATE WITH THE GENERAL CONTRACTOR REGARDING THE BONDING OF THE FOOTING REBAR, SO THAT IT WILL BE IN PLACE AND READY AT TIME OF FOOTING INSPECTION.
- ALL MATERIALS AND EQUIPMENT SHALL COMPLY WITH THE UNDERWRITERS' LABORATORIES, INC. STANDARDS OR HAVE UL APPROVAL, OR BEAR UL RE-EXAMINATION LISTING WHERE SUCH APPROVAL HAS BEEN ESTABLISHED FOR THE TYPE OF DEVICE IN QUESTION.
- CONDUCTORS, FUSES, CIRCUIT BREAKERS, AND DISCONNECT SWITCHES SHOWN ON THESE PLANS HAVE BEEN SIZED FOR THE SPECIFIED EQUIPMENT. BEFORE ORDERING ELECTRICAL EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OTHER CONTRACTORS ON THE SITE AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES SHOULD CONDUCTOR, CIRCUIT BREAKER, OR FUSE SIZES REQUIRE CHANGE.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE WITH THE GENERAL CONTRACTOR TO ENSURE THE FOLLOWING MATERIALS ARE RECYCLED DURING THE CONSTRUCTION PHASE OF THE PROJECT: LIGHT FIXTURES, INCLUDING PROPER DISPOSAL OF BALLASTS, FLUORESCENT LIGHT BULBS, AND TRANSFORMERS, WIRING AND ELECTRICAL EQUIPMENT, AND INSULATION. WASTE MATERIALS CONTAINING LEAD, ASBESTOS, PCBs (FLUORESCENT LAMP BALLASTS), OR OTHER HARMFUL SUBSTANCES SHALL BE HANDLED AND DISPOSED OF IN ACCORDANCE WITH FEDERAL AND STATE LAWS AND REQUIREMENTS CONCERNING HAZARDOUS WASTE.
- ALL WORK SHALL CONFORM TO 2020 NATIONAL ELECTRIC CODE, 2018 STATE BUILDING CODE, AND ALL APPLICABLE LOCAL CODES.

MATERIALS:

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL NECESSARY DISCONNECTS, SWITCHES, RECEPTACLES, TERMINALS, ETC. UNDER THE ELECTRICAL BID AND SHALL INCLUDE ALL NECESSARY CIRCUITS AND CONNECTIONS TO THE EQUIPMENT PROVIDED BY ALL SUPPLIERS, UNLESS NOTED OTHERWISE BY OTHER DISCIPLINES.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ALL SERVICE ENTRANCE EQUIPMENT, SUB PANELS, AND OTHER ELECTRICAL DISTRIBUTION EQUIPMENT AS NECESSARY FOR A COMPLETE INSTALLATION. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH UTILITY REGARDING SERVICE AND METERING DETAILS. PRIOR TO ORDERING EQUIPMENT, THE ELECTRICAL CONTRACTOR SHALL OBTAIN THE AVAILABLE FAULT CURRENT OR TRANSFORMER SIZE AND IMPEDANCE FROM THE UTILITY AND CONTACT THE ENGINEER IF THE VALUE EXCEEDS THE EQUIPMENT SPECIFIED. PANEL BOARDS AND SWITCH BOARDS SHALL BE SQUARE D, CUTLER-HAMMER, SIEMENS, OR GE. BUSES SHALL BE COPPER UNLESS OTHERWISE APPROVED BY THE ENGINEER. RECESSED PANEL BOARDS SHALL BE INSTALLED FLUSH WITH THE WALL FINISH. METER BASES SHALL COMPLY WITH THE UTILITY'S SPECIFICATIONS AND SHALL BE MOUNTED AT A HEIGHT APPROVED BY THE UTILITY. ALL EQUIPMENT IDENTIFIED FOR SERVICE ENTRANCE USE SHALL BE SO LABELED AND UL LISTED FOR SUCH USE. ELECTRICAL CONTRACTOR SHALL INSTALL ALL ELECTRICAL EQUIPMENT WITH CLEARANCES PER NEC 110.26. ELECTRICIAN SHALL PERMANENTLY LABEL EQUIPMENT PER NEC 110.24.
- ENCLOSED SAFETY SWITCHES SHALL BE HEAVY DUTY TYPE BY SQUARE D, EATON, OR GE. ENCLOSED SWITCHES SHALL HAVE A HANDLE LOCKABLE IN THE OFF POSITION AND SHALL HAVE A HANDLE INTERLOCKED TO PREVENT OPENING THE FRONT COVER WHILE IN THE ON POSITION. ENCLOSED SWITCHES OF THE FUSIBLE TYPE SHALL BE FUSED IN ACCORDANCE WITH NAMEPLATE DATA WITH DUAL ELEMENT TYPE FUSES BY BUSSMANN, LITTELFUSE, OR MERSON.
- OCCUPANCY SENSORS SHALL BE BY WATSTOPPER, LITTON, LEVITON, SENSOR SWITCH, HUBBELL, OR APPROVED EQUAL.
- CIRCUIT BREAKERS SHALL BE MOLDED-CASE, THERMAL MAGNETIC TYPE WITH QUICK-MAKE, QUICK-BREAK MECHANISM, COMMON TRIP ON MULTI-POLE BREAKERS, AND UL LISTED FOR BOTH COPPER AND ALUMINUM CONDUCTORS. CIRCUIT BREAKERS IN PANELS SHALL BE SERIES RATED WITH THE MAIN BREAKER, FULLY RATED FOR THE SYSTEM, OR SERIES RATED WITH THE BREAKER FEEDING THE PANEL FROM THE FACTORY.
- ALL WIRE, CONNECTORS, TERMINALS, AND LUSS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. WHERE CONDUCTORS ARE RUN IN PARALLEL, LUSS SHALL BE LISTED FOR PARALLEL CONDUCTORS. PUSH WIRE CONNECTORS ARE NOT ALLOWED FOR BUILDING WIRE. PUSH CONNECTORS ARE ONLY ALLOWED, WHEN APPROVED, AS PART OF MANUFACTURED LISTED PRODUCTS. ALL WIRE SHALL BE INSTALLED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE INSULATION TYPE FOR INTERIOR WIRING SHALL BE DUAL RATED THHN/THWN OR XHHW. ALL WIRING INSTALLED BELOW GRADE OR IN MOIST OR WET LOCATIONS SHALL HAVE TYPE THHN OR XHHW INSULATION. INSULATION VOLTAGE RATING SHALL BE 600 VOLTS AND A MINIMUM TEMPERATURE RATING OF 75°C. CONDUCTORS SHALL BE SOLID OR STRANDED COPPER FOR #10 AWG AND #12 AWG, AND STRANDED COPPER FOR #8 AWG AND LARGER SIZES. ALL WIRING AND CABLE SHALL BE UL LISTED. ALL TERMINATIONS AND DEVICES SHALL BE RATED FOR USE WITH 75°C CONDUCTORS. FINAL CONNECTIONS TO ALL MOTORS AND EQUIPMENT SUBJECT TO VIBRATION OR MOVEMENT SHALL BE MADE WITH STRANDED COPPER CONDUCTORS. CONDUCTORS SHALL BE BY CERRO WIRE, INC., INDUSTRIAL WIRE & CABLE, INC., ENCORE WIRE CORPORATION, OR SOUTHWIRE COMPANY. JOINTS IN SOLID CONDUCTORS SHALL BE SPLICED USING IDEAL WIRE NUTS™, SW "SCOTCH LOCK", OR TAB "PROUD" CONNECTORS IN JUNCTION BOXES, OUTLET BOXES, AND LIGHTING FIXTURES. JOINTS IN STRANDED CONDUCTORS SHALL BE SPLICED BY APPROVED MECHANICAL CONNECTORS AND GUM RUBBER TAPE OR FRICTION TAPE. SOLDERLESS MECHANICAL CONNECTORS FOR SPLICES AND TAPS, PROVIDED WITH UL APPROVED INSULATING COVERS, MAY BE USED INSTEAD OF MECHANICAL CONNECTORS PLUS TAPE. IN ALL CASES, CONDUCTORS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND NO SPLICING SHALL BE MADE EXCEPT WITHIN OUTLET OR JUNCTION BOXES, TROUGH, OR GUTTERS. WHERE CONCENTRIC, ECCENTRIC, OR OVERSIZED KNOCKOUTS ARE ENCOUNTERED, A GROUNDING TYPE INSULATED BUSHING SHALL BE PROVIDED.
- ALL LUMINAIRES SHALL BE LISTED. LUMINAIRES IN WET OR DAMP LOCATIONS SHALL BE MARKED AS SUITABLE FOR THE RESPECTIVE USE. EMERGENCY LIGHTING SHALL BE INSTALLED AS SHOWN. FINAL LOCATIONS OF ALL EXIT AND EMERGENCY LIGHTS SHALL BE VERIFIED WITH THE BUILDING INSPECTOR PRIOR TO INSTALLATION. ALL FLUORESCENT FIXTURES SHALL HAVE ELECTRONIC BALLASTS MEETING ANSI C82.11 FOR ELECTRONIC BALLAST PERFORMANCE. ALL BALLASTS SHALL BE UL LISTED AND MEET FEDERAL AND STATE EFFICIENCY REQUIREMENTS.
- ALL CONDUIT, FITTINGS, COUPLINGS, AND SUPPORTS SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. CONDUIT FITTINGS AND COUPLINGS SHALL BE BY APPLETON, RACO, OR O-2/REDNEY. COUPLINGS SHALL BE THREADED, SET-SCREW, OR COMPRESSION TYPE. INDENTER OR CRIMP TYPE ARE NOT PERMITTED. CONDUIT FITTINGS AT ALL ELECTRICAL BOXES INCLUDING PULL, JUNCTION, AND OUTLET BOXES, SHALL HAVE INSULATED THROATS TO PREVENT INSULATION SCORING. DIE CAST FITTINGS ARE NOT PERMITTED.
- EMT SHALL BE MANUFACTURED IN ACCORDANCE WITH AMERICAN NATIONAL STANDARDS INSTITUTE-AMERICAN NATIONAL STANDARD FOR STEEL ELECTRICAL METALIC TUBING (EMT), ANSI C80.3 AND UL 797. RIGID METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR ELECTRICAL RIGID STEEL CONDUIT (ERSC), ANSI C80.1 AND UL 6. INTERMEDIATE METAL CONDUIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ANSI-AMERICAN NATIONAL STANDARD FOR INTERMEDIATE METAL CONDUIT ANSI C80.6 AND UL 1242.
- METAL CONDUIT SHALL BE BY ALLED TUBING & CONDUIT, BECK MANUFACTURING, INC., OR WHEATLAND TUBE COMPANY. FLEXIBLE METAL CONDUIT, LIQUID-TIGHT FLEXIBLE METAL CONDUIT, AND NONMETALLIC CONDUIT SHALL BE BY APC CABLE SYSTEMS, INC., ELECTRI-FLEX COMPANY, OR INTERNATIONAL METAL HOSE.

METHODS:

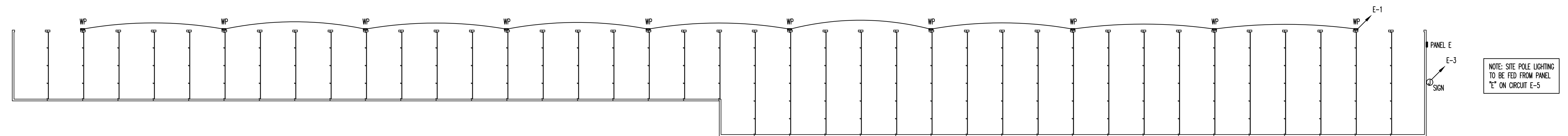
- EC SHALL REVIEW THE MECHANICAL PLANS TO ESTABLISH POINTS OF CONNECTION AND THE EXTENT OF THE ELECTRICAL WORK TO BE PROVIDED IN THE CONTRACT.
- ALL CIRCUIT BREAKERS FEEDING HVAC EQUIPMENT SHALL BE HACR BREAKERS. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE MINIMUM #12 AWG IN 3/4 IN CONDUIT. EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE PROVIDED WITH A MEANS TO SIMULTANEOUSLY DISCONNECT ALL UNGROUNDED CONDUCTORS AT THE SOURCE PER NEC 210.4(B). GROUP ALL CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT PER 210.4(D) WITH WIRE TIES OR SIMILAR MEANS. DO NOT EXCEED THREE HOMERUNS PER CONDUIT. DO NOT INSTALL ISOLATED GROUND AND NON-ISOLATED GROUND CIRCUITS IN THE SAME CONDUIT. INSTALL CONDUCTORS OF DIFFERENT VOLTAGES IN SEPARATE CONDUITS.
- COLOR CODE CONDUCTORS PER NEC. FEEDERS SHALL BE IDENTIFIED IN ACCORDANCE WITH NEC 215.12. USE BLACK, RED, AND BLUE FOR PHASES A, B, AND C RESPECTIVELY ON 208Y/120 VOLT THREE-PHASE SYSTEMS AND WHITE FOR THE NEUTRAL. COLORS SHALL BE FACTORY APPLIED FOR CONDUCTORS #6 AWG AND SMALLER. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL BE GREEN IN COLOR AND MINIMUM #12 AWG. THE EC SHALL PROVIDE PLENUM RATED CABLE FOR ANY ELECTRICAL, TELEPHONE, COMMUNICATION, OR OTHER CABLE THAT ENTERS CEILING RETURN PLENUMS.
- ALL LIGHT FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE SUSPENDED CEILING. COORDINATE LIGHTING LAYOUT WITH CEILING GRID, MECHANICAL EQUIPMENT, DUCTWORK AND SPRINKLER HEADS AS NECESSARY. SEE REFLECTED CEILING PLAN FOR DETAILS. FLUORESCENT FIXTURES UTILIZING DOUBLE-ENDED LAMPS MUST HAVE A DISCONNECTING MEANS COMPLYING WITH NEC 410.13(B)(1).
- MOUNT LIGHT SWITCHES AT 48 IN AFF. MULTIPLE SWITCHES AT SAME LOCATION SHALL BE UNDER ONE WALL PLATE. VERIFY WALL PLATE COLOR AND MATERIAL WITH THE ARCHITECT/OWNER. ALL SWITCHES WITH OFF POSITION DOWN. ALL SWITCHES SHALL BE HEAVY DUTY, NORY PLASTIC WITH TOGGLE HANDLE, RATED 120-277V AC, AND COMPLYING WITH NEMA WD 6 AND WD 1. SWITCHES SHALL BE BY COOPER WIRING DEVICES, LEVITON MANUFACTURING, PASS & SEYMOUR, OR HUBBELL. PROVIDE BOX DEVICE PARTITION/DIVIDERS FOR MULTI-GANG BOXES FOR COMPLIANCE WITH NEC 404.8(B).
- ELECTRICAL CONTRACTOR SHALL PROVIDE FIRE-STOPPING AT ALL ELECTRICAL PENETRATIONS OF RATED FLOORS AND WALLS TO PRESERVE OR RESTORE THE FIRE-RESISTANCE RATING. SEAL PENETRATIONS USING A UL LISTED SYSTEM FOUND IN THE UL DIRECTORY SPECIFIC TO THE UL LISTING OF THE ASSEMBLY BEING PENETRATED. SEE ARCHITECTURAL PLANS FOR UL RATED ASSEMBLIES SPECIFIC TO THIS PROJECT.
- LOCATIONS AND HEIGHTS OF ALL WALL-MOUNTED DEVICES SHALL BE COORDINATED WITH THE ARCHITECT PRIOR TO INSTALLATION.
- CONCEAL ALL CONDUIT EXCEPT IN MECHANICAL ROOMS OR UNFINISHED AREAS AS NOTED. USE EMT CONDUIT FOR ALL BRANCH CIRCUITS AND FEEDERS INSIDE THE BUILDING. TYPE MC CABLE AND TYPE AC CABLE MAY BE INSTALLED WITHIN WALLS IF ALL NEUTRAL WIRES, ISOLATED GROUND WIRES, AND EQUIPMENT GROUND WIRES AS LISTED ABOVE ARE CONTAINED IN THE CABLE. FLEXIBLE CONNECTIONS TO MOTORS AND OTHER EQUIPMENT SHALL BE MADE USING WEATHERPROOF FLEXIBLE CONDUIT. FOR LAY-IN LIGHT FIXTURES, USE MAXIMUM OF SIX (6) FEET OF FLEXIBLE MC CABLE (OR THE FLEXIBLE CONDUIT PROVIDED BY THE FIXTURE MANUFACTURER). SCHEDULE 40 PVC CONDUIT MAY BE USED FOR THE SECONDARY UNDERGROUND SERVICE. UNDERGROUND TELEPHONE SERVICE, AND BRANCH AND FEEDER CIRCUITS UNDER SLAB OR EXTERIOR TO THE BUILDING. EXPOSED EXTERIOR CONDUIT SHALL BE SCHEDULE 80 PVC. ALL UNDERGROUND RACEWAYS SHALL BE IDENTIFIED WITH UNDERGROUND LINE MARKING TAPE 6-8 IN BELOW GRADE DIRECTLY ABOVE THE RACEWAY. PROVIDE PULL WIRE IN EMPTY CONDUITS. UPSIZE CONDUIT FROM MINIMUM SIZE AS NECESSARY FOR LONGER PULLS. UNDERGROUND RACEWAYS THAT STUB INTO THE BOTTOM OF SWITCHBOARDS, OUTDOOR TRANSFORMERS, GENERATORS, ETC., SHALL RISE AT LEAST 2 IN ABOVE THE FINISHED SLAB TO PREVENT WATER FROM DRAINING INTO THE RACEWAYS. RACEWAYS THAT PENETRATE EXTERIOR WALLS OR INTERIOR PARTITIONS SEPARATING SPACES THAT WILL BE AT SIGNIFICANTLY DIFFERENT TEMPERATURES SHALL BE SEALED IN ACCORDANCE WITH 300.5(B), 300.7(A), AND 300.50(E) OF THE NEC. ROUTE CONDUIT IN AND UNDER SLAB FROM POINT-TO-POINT. ROUTE EXPOSED CONDUIT AND CONDUIT INSTALLED ABOVE ACCESSIBLE CEILING PARALLEL AND PERPENDICULAR TO WALLS. COMPLETELY AND THOROUGHLY SMOOTH ALL RACEWAYS BEFORE INSTALLING WIRE. PULL ALL CONDUCTORS INTO EACH RACEWAY AT ONE TIME. USE A SUITABLE WIRE PULLING LUBRICANT FOR BUILDING WIRE #4 AWG AND LARGER.
- CABLES, RACEWAYS, OR BOXES, INSTALLED IN EXPOSED OR CONCEALED LOCATIONS UNDER METAL-CORRUGATED SHEET ROOF DECKING, SHALL BE INSTALLED AND SUPPORTED SO THERE IS NOT LESS THAN 1-1/2 IN MEASURED FROM THE LOWEST SURFACE OF THE ROOF DECKING TO THE TOP OF THE CABLE, RACEWAY, OR BOX. A CABLE, RACEWAY, OR BOX SHALL NOT BE INSTALLED IN CONCEALED LOCATIONS IN METAL-CORRUGATED, SHEET DECKING-TYPE ROOF. SEE NEC 300.4(E).
- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL OUTLET, JUNCTION, PULL BOXES, FITTINGS, AND SUPPORTS. ALL OUTLET AND JUNCTION BOXES SHALL BE GALVANNEZED STEEL TYPE BY APPLETON, STEEL CITY, OR RACO. EXTERIOR BOXES SHALL BE TYPE FS. VAPORITE BOXES SHALL BE TYPE GS. WHERE SURFACE MOUNTED BOXES ARE USED, THOSE BOXES AND THEIR FACEPLATES SHALL HAVE ROUNDED CORNERS. BOXES INSTALLED IN FLOORS SHALL BE RATED FOR THE APPLICATION. MOUNT JUNCTION AND OUTLET BOXES FLUSH WITH FINISH SURFACES UNLESS OTHERWISE NOTED. WHERE MOUNTING HEIGHTS ARE GIVEN, THEY SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTER OF THE BOX. ALL BOXES SHALL BE SIZED PER NEC ARTICLE 314. ALL OUTLET AND JUNCTION BOXES SHALL HAVE A COVER PLATE, PROVIDED BY THE ELECTRICAL CONTRACTOR. OUTLET BOXES IN RATED WALLS SHALL BE INSTALLED IN ACCORDANCE WITH NORTH CAROLINA BUILDING CODE 714.3.2 (MAXIMUM BOX SIZE IS 16 SQUARE IN AND MAXIMUM OF SIX (6) BOXES PER 100 SQUARE FEET). INSTALL OUTLET BOXES IN RATED WALLS SUCH THAT OPENINGS OCCUR IN ONE SIDE ONLY WITHIN ANY GIVEN STUD SPACE. ALL CLEARANCES BETWEEN THE OUTLET BOX AND THE GYPSUM BOARD SHALL BE FILLED WITH JOINT COMPOUND OR

- OTHER APPROVED FIRE STOP MATERIAL. FLUSH MOUNTED JUNCTION BOXES IN ADJACENT ROOMS SHALL NOT BE MOUNTED BACK-TO-BACK. SURFACE MOUNTED FIXTURES SHALL BE FED THROUGH FLUSH MOUNTED 4x4 OCTAGONAL OR SQUARE BOXES.
- ALL CONDUIT, BOXES, AND ELECTRICAL EQUIPMENT SHALL BE FIRMLY AND SECURELY FASTENED TO OR SUPPORTED FROM THE BUILDING STRUCTURAL MEMBERS OR EMBEDDED IN CONCRETE OR MASONRY. ELECTRICAL SUPPORTS SHALL NOT BE ATTACHED TO DUCTWORK, PIPING, OR THEIR SUPPORTS. HANGERS SHALL BE CATALOG ITEMS COMPATIBLE WITH AND SUITABLE FOR THE INTENDED USE. FOR METAL ROOF DECK INSTALLATIONS, 1 IN EMT CONDUIT MAXIMUM AND 4 IN JUNCTION BOXES MAXIMUM MAY BE SUPPORTED BY DECKING. THE SUSPENDED CEILING SYSTEM SHALL NOT BE USED FOR THE SUPPORT OF ELECTRICAL RACEWAY SYSTEMS OR SUPPORT OF COMMUNICATIONS OR DATA SYSTEMS WIRING. CONTRACTOR SHALL COMPLY WITH 1613 OF THE NORTH CAROLINA GENERAL CONSTRUCTION BUILDING CODE.
 - WHERE CONDUCTORS ARE RUN IN PARALLEL, THE EC SHALL COMPLY WITH NEC 310.4.
 - ELECTRICAL CONTRACTOR SHALL INSTALL DISCONNECT SWITCHES IN SIGHT OF ALL HARDWIRED EQUIPMENT AND APPLIANCES OR PROVIDE BREAKERS CAPABLE OF BEING LOCKED IN THE OPEN POSITION PER NEC 422.31. FOR MOTOR DRIVEN APPLIANCES, PROVIDE A DISCONNECTING MEANS PER NEC 422.31 AND 430 PART IX. WHERE AN INDIVIDUAL DISCONNECT SWITCH, CIRCUIT BREAKER, STARTER, ETC, IS SHOWN ON THE PLANS ADJACENT TO ITS LOAD AND NOT LOCATED ON A WALL, PROVIDE NECESSARY MATERIALS AND LABOR TO SUPPORT THE DEVICE.
 - ELECTRICAL CONTRACTOR SHALL FIELD IDENTIFY ALL SWITCH BOARD, PANEL BOARDS, CONTROL PANELS, METER SOCKETS, ETC., TO WARN QUALIFIED PERSONS OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS PER 110.16 OF NEC.
 - ELECTRICAL CONTRACTOR SHALL PROVIDE NAMEPLATES FOR IDENTIFICATION OF ALL EQUIPMENT, SWITCHES, PANELS, ETC. THE NAMEPLATES SHALL BE LAMINATED PHENOLIC PLASTIC, BLACK FRONT, AND BACK WITH WHITE CORE, WHITE ENGRAVED LETTERS (1/4 IN MINIMUM) ETCHED INTO THE WHITE CORE. ELECTRICAL CONTRACTOR SHALL PROVIDE A TYPE WRITTEN DIRECTORY CARD THAT ACCURATELY IDENTIFIES CIRCUITS INSIDE EACH PANEL. HANDWRITTEN LABELS ARE NOT ACCEPTABLE.
 - IN ACCORDANCE WITH SECTION 915.0 OF THE NC FIRE PREVENTION CODE, TESTING WILL BE REQUIRED TO DETERMINE SATISFACTORY FIRST RESPONDER RADIO SIGNAL STRENGTH INSIDE EACH BUILDINGS ON SITE. TESTING WILL NEED TO EITHER BE COMPLETED BY A COUNTY FIRE INSPECTOR (OBTAIN BY REQUESTING A COURTESY INSPECTION) OR A CERTIFIED 3RD PARTY. TESTING SHALL TAKE PLACE AT BOTH BOX PROJECT COMPLETION AND AGAIN AT 100% COMPLETION. IF UNACCEPTABLE SIGNAL DEGRADATION IS PRESENT AT EITHER 80% OR 100% INSPECTION, THEN AN ACCEPTABLE BOOSTER SYSTEM SHALL BE ADDED TO THE BUILDING DESIGN AT THAT TIME.

VOLTAGE DROP SCHEDULE		
120V CIRCUITS < 8 AMPS (1.0 kVA)		
DISTANCE TO 1ST LOAD	AWG SIZE	
0' - 120'	#12	
121' - 190'	#10	
191' - 300'	#8	
301' - 470'	#6	
120V CIRCUITS 9 TO 14 AMPS (1.0-1.7 kVA)		
DISTANCE TO 1ST LOAD	AWG SIZE	
0' - 65'	#12	
66' - 110'	#10	
111' - 170'	#8	
171' - 270'	#6	

LIGHT FIXTURE SCHEDULE												
MARK	DESCRIPTION	LOUVER/LENS	LAMPS		BALLAST		VOLTAGE	INPUT WATTAGE	MOUNTING	REMARKS	MFG	MODEL
			TYPE	CCT	TYPE	QTY						
WP	LED WALLPACK	ACRYLIC	LED	4000K	LED DRIVER	1	120	54	SURFACE	2,3	LITHONIA	TW2-LED-ALD-40K-HVLT

- FIXTURE SHALL HAVE BATTERY BACKUP FOR 90 MINUTE ILLUMINATION.
- OR EQUAL BY COOPER, MOERN, OR CURRENT BY GE LIGHTING



NOTE: SITE POLE LIGHTING TO BE FED FROM PANEL "E-5" ON CIRCUIT E-5

GENERAL ELECTRICAL NOTES AND SCHEDULE 1

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JACOB A. BENINGER
 ENGINEER
 NORTH CAROLINA
 SEAL

CLEVELATE
 LAKESIDE STORAGE
 BUILDING D
 ANGER, NORTH CAROLINA

REVISION:

NO.	DESCRIPTION
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ISSUED:

NO.	DESCRIPTION
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DRAWN BY: JMB
 CHECKED BY: MMK
 ELECTRICAL NOTES, SCHEDULE,
 AND LIGHTING PLAN
 SHEET NO.

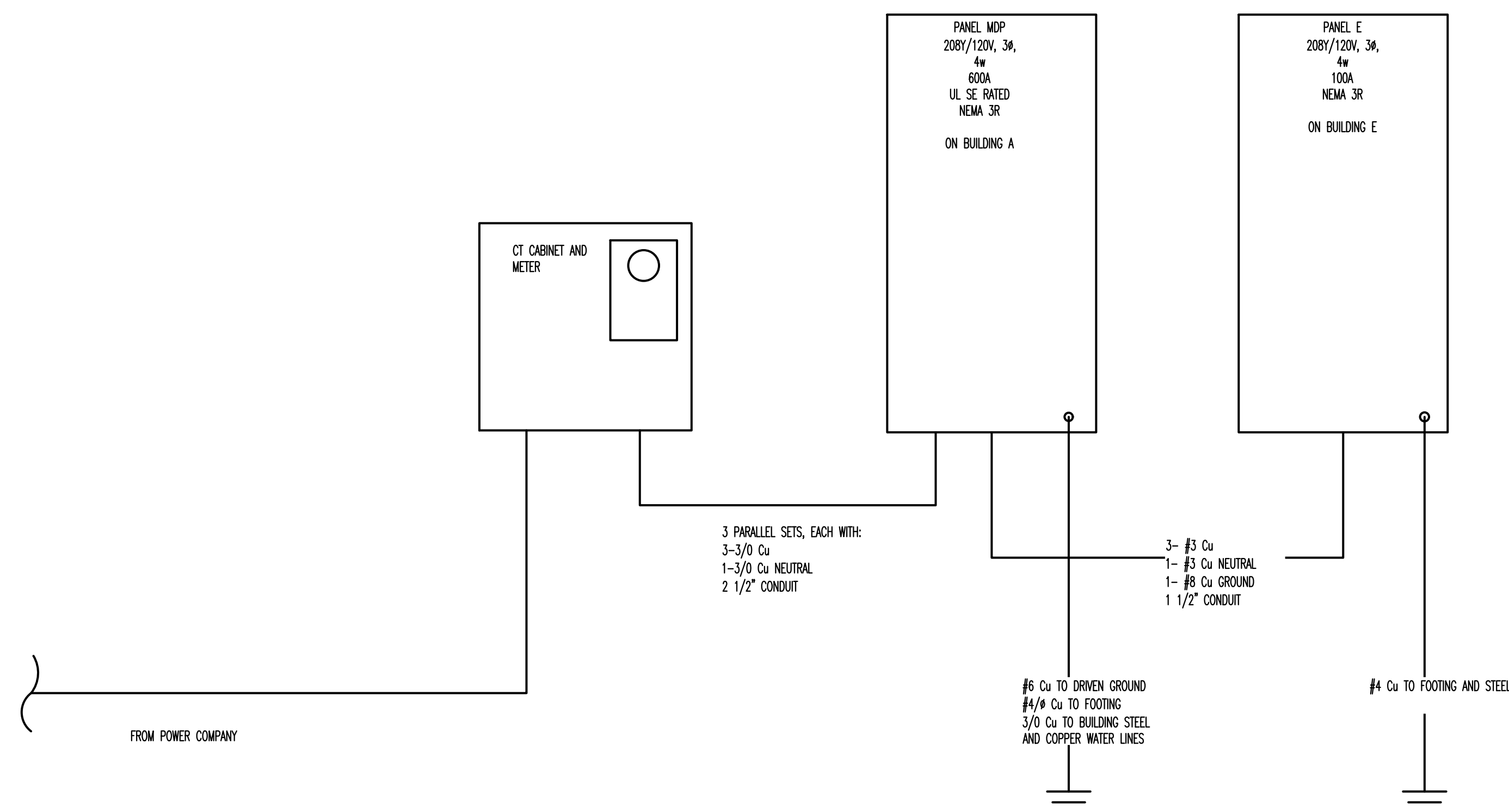
E1

ELECTRICAL LIGHTING PLAN - SCALE: 1/6"=1' 2

PROJECT NO: 22214

PANEL							
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD
1	PANEL A	200/3	17.30	A	0.70	100/3	PANEL E
3			18.20	B	1.50		
5			17.60	C	1.80		
7	PANEL B	200/3	14.90	A	3.00	100/3	PANEL F
9			13.60	B	0.70		
11			12.20	C	0.40		
13	SPACE		0.00	A	0.00		SPACE
15			0.00	B	0.00		
17			0.00	C	0.00		
			kVA	PH	AMPS		
			35.9	A	299		
			34.0	B	283		
			32.0	C	267		
VOLTAGE/PHASE			208Y/120V, 3P, 4W				
BUS RATING			600A				
MAIN CIRCUIT BREAKER RATING			600A				
AIC RATING			44K				
SERVICE ENTRANCE RATED			YES				
ENCLOSURE			NEMA 3R				
MOUNTING			SURFACE				

PANEL E							
CKT	LOAD	BKR	LOAD kVA	PH	LOAD kVA	BKR	LOAD
1	EXTERIOR LIGHTING	20/1	0.68	A	0.00		SPACE
3	SIGN CIRCUIT	20/1	1.50	B	0.00		SPACE
5	SITE POLES	20/1	1.84	C	0.00		SPACE
7	SPACE		0.00	A	0.00		SPACE
9	SPACE		0.00	B	0.00		SPACE
11	SPACE		0.00	C	0.00		SPACE
			kVA	PH	AMPS		
			0.7	A	6		
			1.5	B	13		
			1.8	C	15		
VOLTAGE/PHASE			208Y/120V, 3P, 4W				
BUS RATING			100A				
MAIN CIRCUIT BREAKER RATING			100A				
AIC RATING			22K				
SERVICE ENTRANCE RATED			NO				
ENCLOSURE			NEMA-3R				
MOUNTING			SURFACE				



REVISION:

ISSUED:
