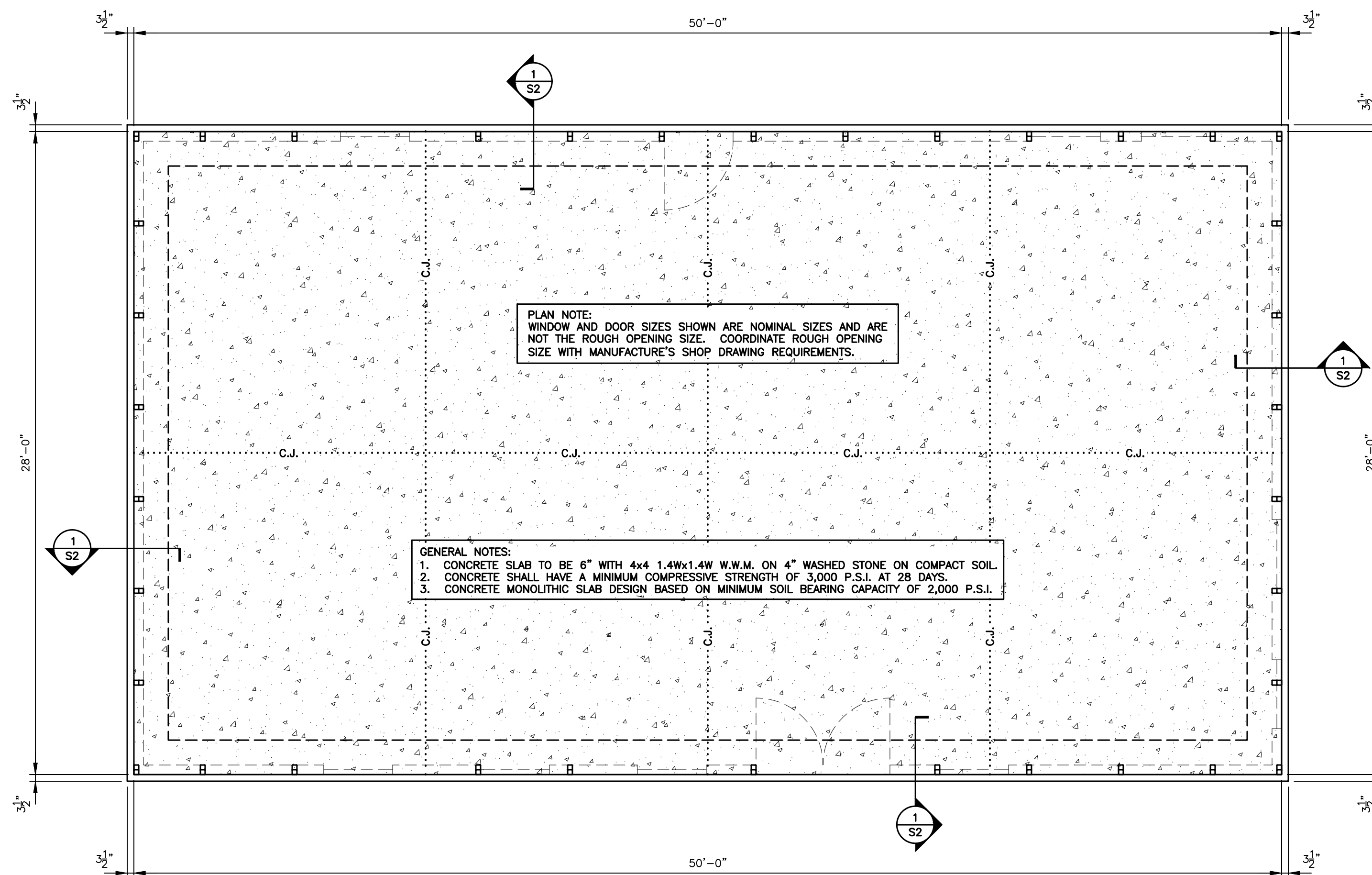


**FLOOR / ROOF FRAMING PLAN**

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



**FOUNDATION PLAN**

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

**APPENDIX "B"**  
**STRUCTURAL DESIGN**

DESIGN LOADS:

RISK CATEGORY: II

IMPORTANCE FACTORS: WIND (1w) 1.00, SNOW (1s) 1.00, SEISMIC (1e) 1.00

DEAD LOADS: ROOF 13 PSF, ROOF COLLATERAL 0 PSF

LIVE LOADS: ROOF 20 PSF

GROUND SNOW LOAD: 15 PSF

GROUND LOAD: BASIC WIND SPEED 115 mph (ASCE 7-10), EXPOSURE CATEGORY B

SEISMIC DESIGN CATEGORY B

COMPLIANCE WITH SECTION 1616.4?  NO  YES

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY II

SPECTRAL RESPONSE ACCELERATION Sa 16 %g, S1 7.9 %g

SITE CLASSIFICATION D  FIELD TEST  PRESUMPTIVE  HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE)

BEARING WALL  DUAL W/ SPECTRAL MOMENT FRAME  
 BUILDING FRAME  DUAL W/ INTERMEDIATE R/C OR SPECIAL STEEL  
 MOMENT FRAME  INVERTED PENDULUM

ANALYSIS PROCEDURE  SIMPLIFIED  EQUIVALENT LATERAL FORCE  MODAL

LATERAL DESIGN CONTROL?  EARTHQUAKE  WIND

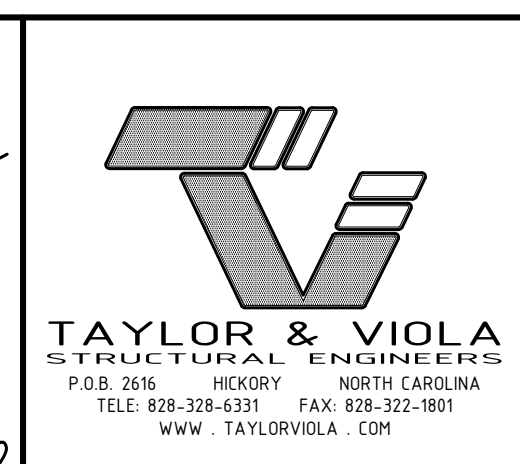
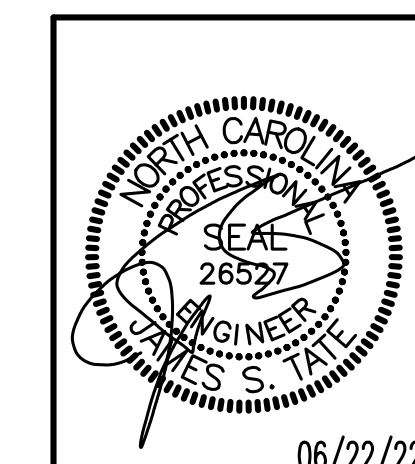
SOIL BEARING CAPACITIES: PRESUMPTIVE BEARING CAPACITIES: 2,000 PSF

DEFLECTION / DRIFT CRITERIA:

LATERAL WIND LOAD H/80  
 VERTICAL AND LATERAL COMBINATIONS H/80  
 HORIZONTAL ROOF MEMBERS L/120  
 HORIZONTAL WALL MEMBERS L/120

GENERAL NOTES:

- MAX FRAME SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- MAX. END-WALL COLUMN SPACING SHALL BE 60"oc UNLESS NOTED OTHERWISE.
- TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14 GA. 50 KSI MIN. UNLESS NOTED OTHERWISE.
- ALL FASTENERS SHALL BE #12 SELF TAPPING UNLESS NOTED OTHERWISE.
- 2,000 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.

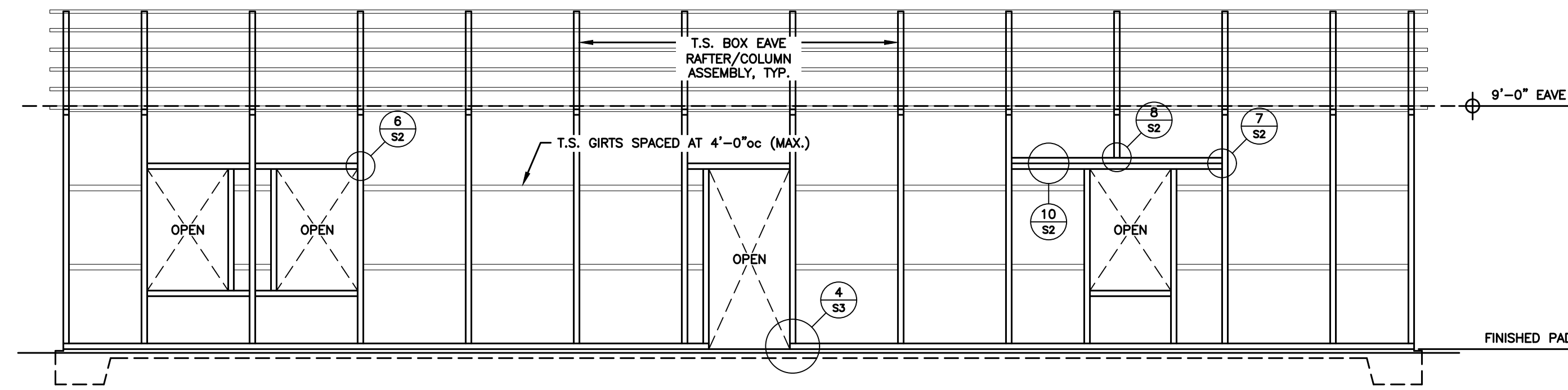


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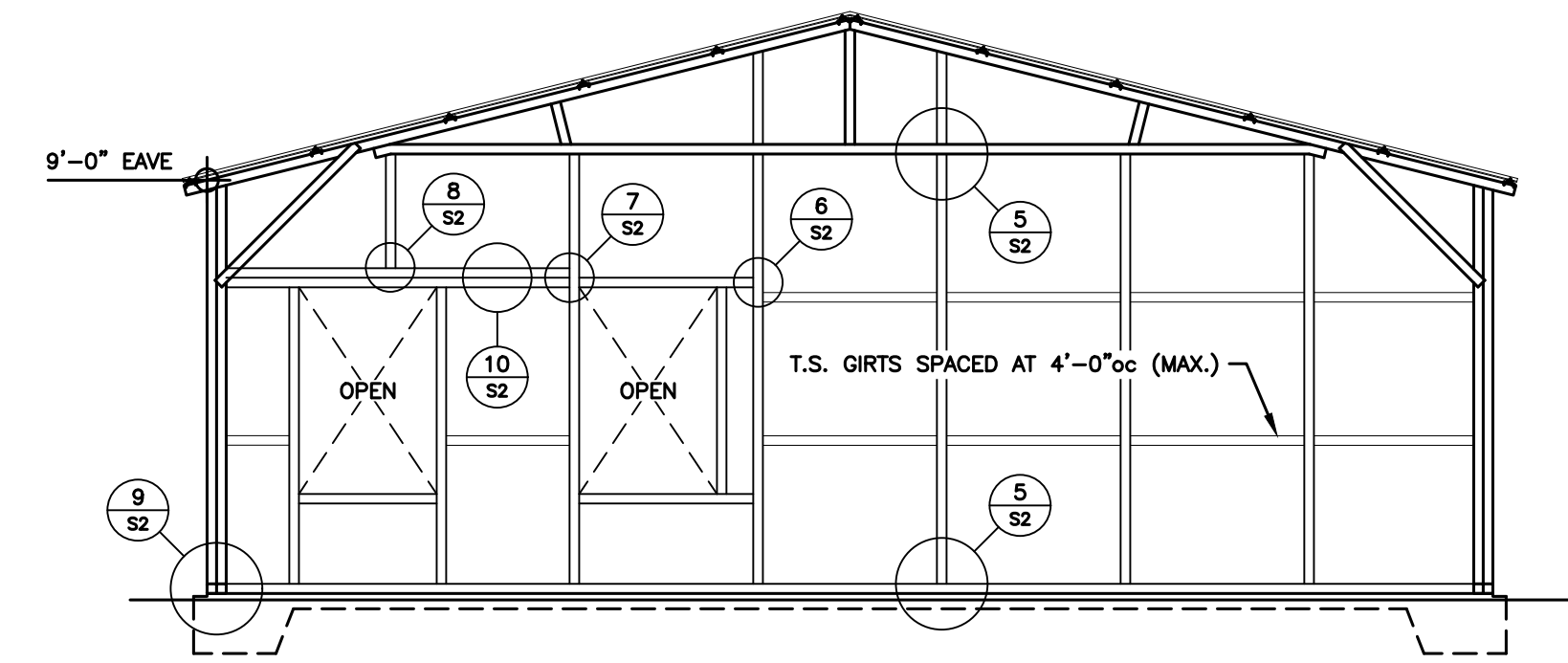
Date: 06/22/22  
Revisions:

JCMT Associates  
211 Stone Drive, Pilot Mountain, NC 27041  
Telephone: (336) 398-8277

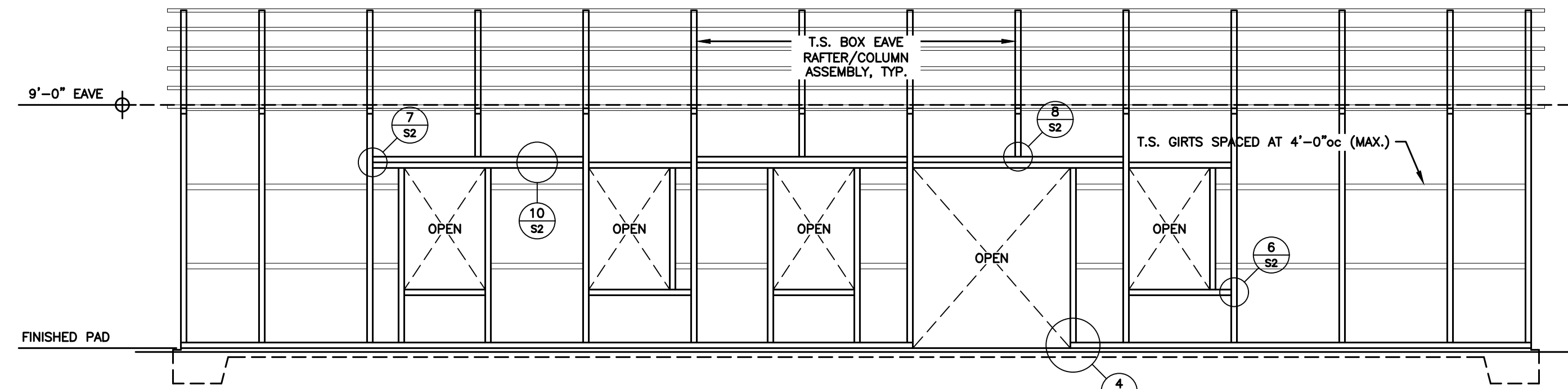
Project No. Misc  
Sheet No. S1.1



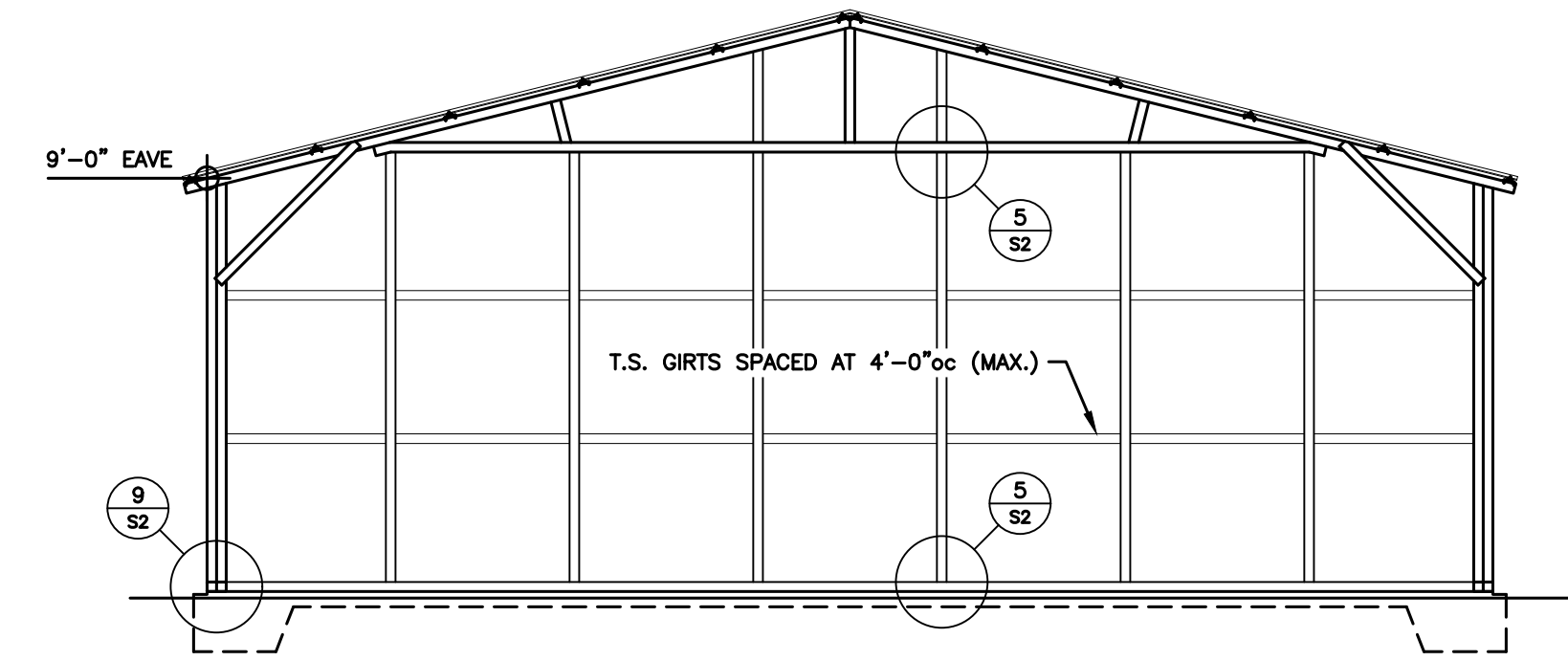
**SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



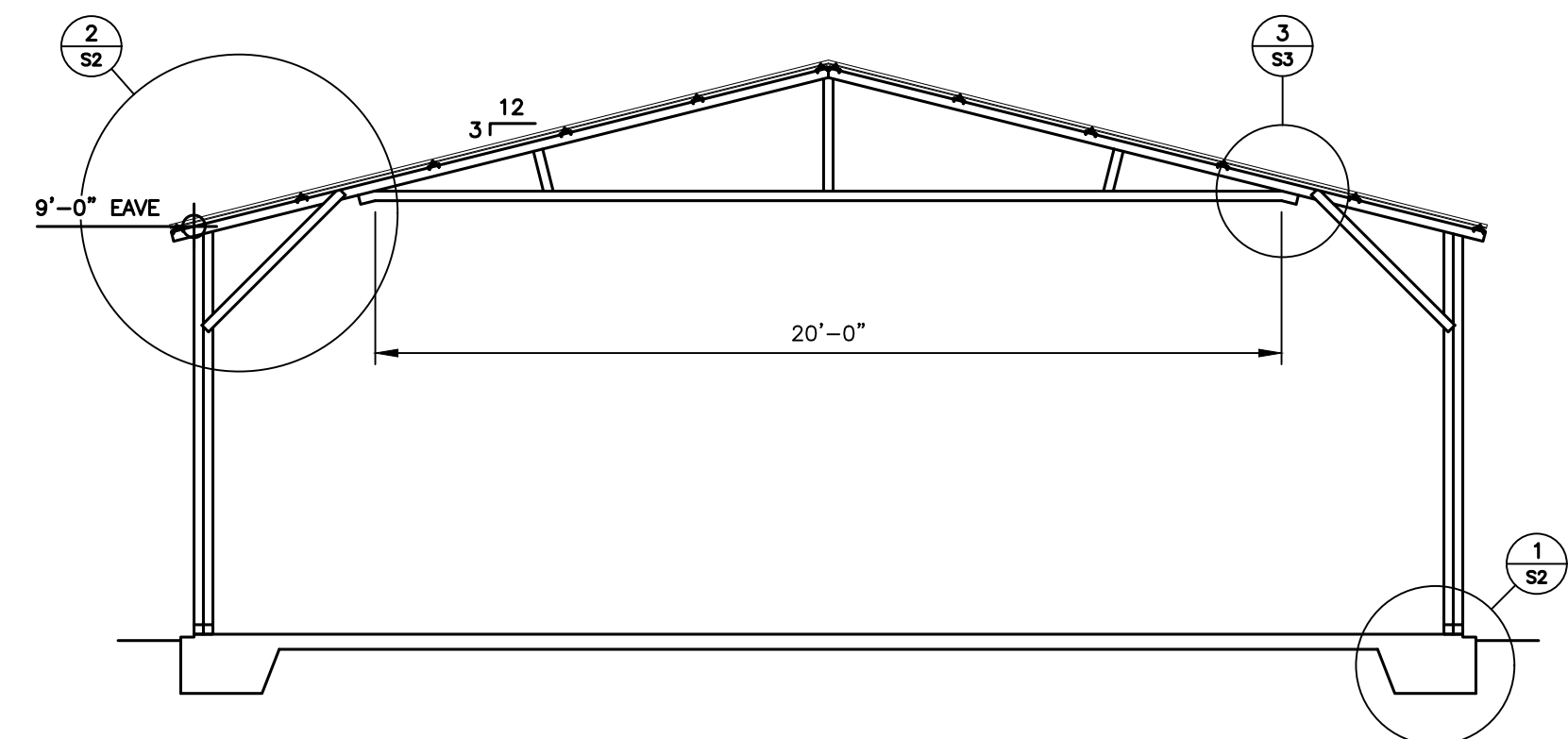
**SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



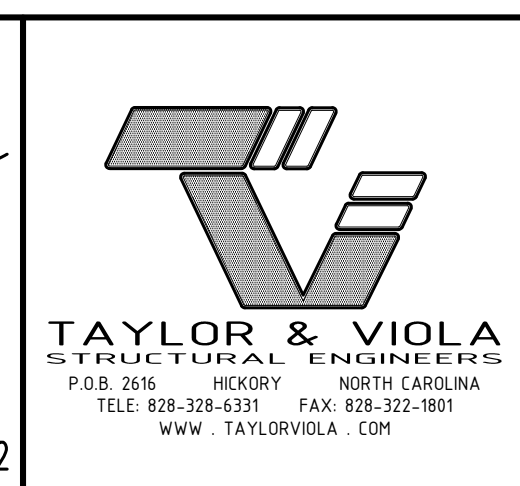
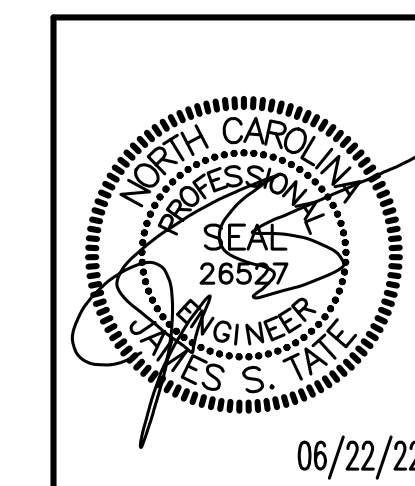
**SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



**SIDE ELEVATION**  
SCALE: 1/4" = 1'-0"



**BUILDING CROSS SECTION**  
SCALE: 1/4" = 1'-0"



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<p>Date: 06/22/22</p>	<p>Revisions:</p>	<p>JCMT Associates 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 398-8277</p>
		<p>Sheet No. S1.2</p>

**GENERAL CONCRETE NOTES:**

ALL REINFORCING BARS TO CONFORM TO ASTM-A615, GRADE 60. ALL ACCESSORIES ARE TO BE INCLUDED. BARS ARE TO BE COLD BENT IN SHOP. BAR SUPPORTS ARE TO BE SPACED IN ACCORDANCE WITH ACI 318 AND CRSI. ALL BAR SPLICES ARE TO BE CONSIDERED CLASS "B" CLASS "B" SPLICES ARE TO BE LAPPED A DISTANCE OF 1.3 LD. COMPRESSION REINFORCING SHALL BE LAPPED A MIN. OF 40 BAR DIAMETERS.

WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 GRADE 60 OR 70. PLACEMENT IN CONCRETE SHALL BE IN THE CENTER OF THE SLAB.

CONCRETE FOR FOOTINGS AND SLABS ON GRADE SHALL ATTAIN A 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI.

CONCRETE PLACEMENT AND QUALITY: PER RECOMMENDATIONS IN ACI SP-15.

DEBRIS: REMOVE ALL DEBRIS FROM FORMS BEFORE PLACING CONCRETE.

SEGREGATION OF AGGREGATES: DO NOT DROP CONCRETE THROUGH REINFORCING STEEL SO AS TO CAUSE SEGREGATION OF AGGREGATES.

INSERTS: SECURELY POSITION ALL ITEMS TO BE CAST IN CONCRETE SUCH AS REINFORCING DOWELS, BOLTS, ANCHORS, PIPES AND SLEEVES IN THE FORMS BEFORE PLACING CONCRETE.

CONSTRUCTION JOINTS: OBTAIN THE ARCHITECTS APPROVAL OF JOINT LOCATIONS IN ALL SLABS, BEAMS, AND SHEAR WALLS. REMOVE LATANCE AND CLEAN SURFACE OF CONCRETE CONSTRUCTION JOINTS.

PIPES: DO NOT EMBED PIPES OTHER THAN ELECTRICAL CONDUITS IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE ARCHITECT. MAXIMUM PIPE SIZE SHALL BE 1/3 OF THE SLAB THICKNESS AND LOCATED AT THE MID DEPTH. MINIMUM SPACING SHALL BE 3 TIMES THE PIPE DIAMETER. PIPES SHALL NOT IMPAIR THE STRENGTH OF THE MEMBER. ANY PIPES OF ALUMINUM ARE PROHIBITED IN STRUCTURAL CONCRETE.

REBAR COVER: ALL DIMENSIONS SHOWING THE LOCATION OF REINFORCING STEEL NOT NOTED AS "CLEAR" ARE TO CENTER OF STEEL. MINIMUM REBAR COVER (CLEAR) FOR NON-PRESTRESSED CONCRETE SHALL BE AS FOLLOWS:

LOCATION	MIN. COVERAGE (CLEAR)	TOLERANCES
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	3/8"
EXPOSED TO EARTH OR WEATHER:		
#5 AND SMALLER BARS	1 1/2"	3/8"
#6 AND LARGER BARS	2"	3/4"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH THE GROUND:		
STRUCTURAL SLABS & WALLS	3/4"	1/8"
SLABS ON GRADE	1 1/2"	1/4"
BEAMS AND COLUMNS (PRIMARY REINFORCEMENT, TIES, STIRRUPS AND SPIRALS)	1 1/2"	3/8"

TOLERANCES OF REBAR PLACEMENT: TOLERANCE FOR LONGITUDINAL LOCATION OF BENDS AND ENDS OF REINFORCEMENT SHALL BE PLUS OR MINUS 2 INCHES EXCEPT AT DISCONTINUING ENDS OF MEMBERS WHERE TOLERANCES SHALL BE PLUS OR MINUS 1/2 INCH.

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY ARCHITECT

CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT.

AGGREGATE: NORMAL WEIGHT AGGREGATE CONFORMING TO ASTM C33.

AGGREGATE SIZE CONFORMING TO:  
 3/4" ASTM C67  
 1" ASTM C67  
 1 1/2" ASTM C67

CEMENT: TYPE I  
 CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

CONCRETE QUALITY:

CONCRETE USE:	STRENGTH @ 28 DAYS	SLUMP	AIR	AGGREGATE SIZE	AGGREGATE TYPE
FOUNDATIONS	3000	3"	-	1 1/2"	ASTM C33
EXTERIOR SLABS	4500	4"	4-6%	1"	ASTM C33
STRUCTURAL WALLS	4000	4"	4-6%	1"	ASTM C33
YARD WALLS	4000	4"	4-6%	1 1/2"	ASTM C33
SLAB ON GRADE	3000	4"	4-6%	1"	ASTM C33

DO NOT ADD WATER TO CONCRETE MIX AT SITE UNLESS APPROVED BY ARCHITECT

CONCRETE: NORMAL WEIGHT CONCRETE SHALL HAVE A MINIMUM UNIT WEIGHT OF 145 POUNDS PER CUBIC FOOT.

AGGREGATE: NORMAL WEIGHT AGGREGATE CONFORMING TO ASTM C33.

AGGREGATE SIZE CONFORMING TO: 3/4"  
 ASTM C67 1"  
 ASTM C67

CEMENT: TYPE I  
 CONCRETE AGE: NO MORE THAN 90 MINUTES SHALL ELAPSE BETWEEN CONCRETE BATCHING AND CONCRETE PLACEMENT UNLESS APPROVED BY ARCHITECT.

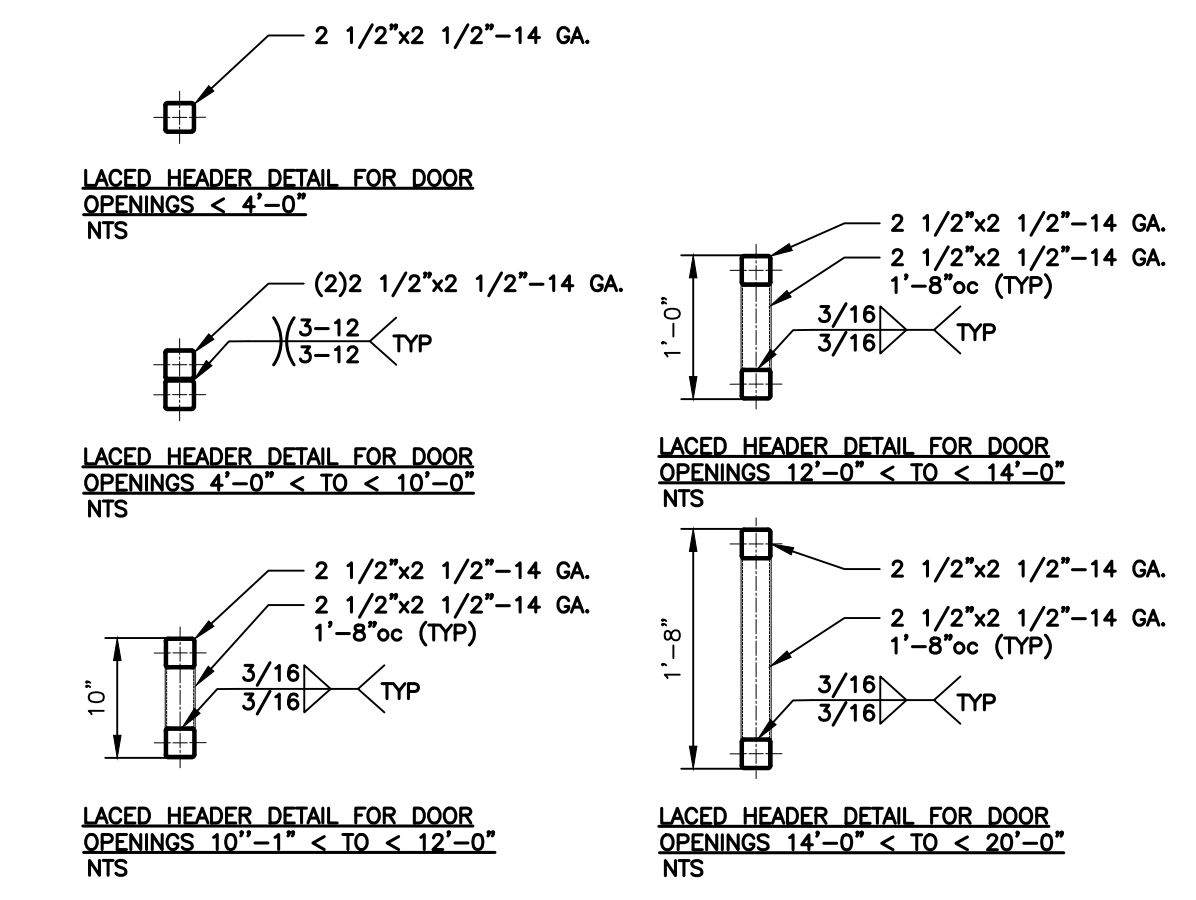
**GENERAL NOTES:**

SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" X 1/2" 14GA TUBE STEEL FRAMING MEMBERS WHERE 2 1/2" X 1/2" 14 GAUGE IS SPECIFIED, TS 2 1/2" X 1/2" 12GAUGE MAYBE USED AS AN OPTION FOR VERTICAL ROOF CONFIGURATION.

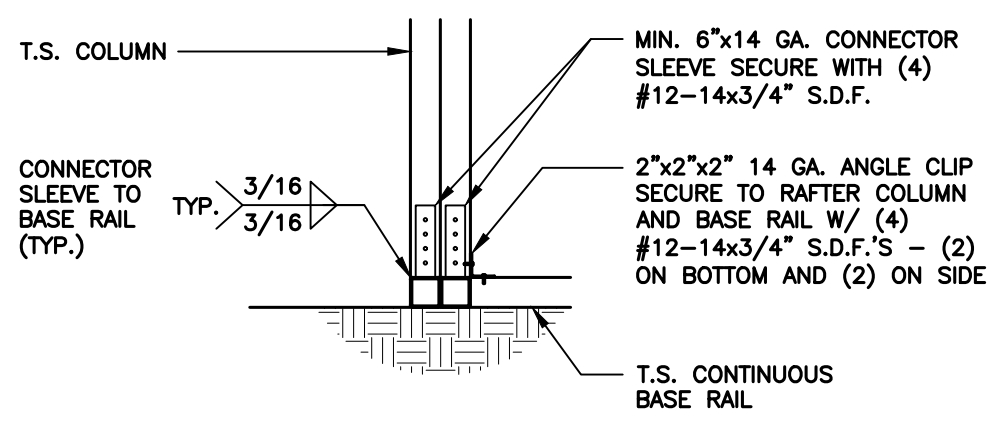
AVERAGE FASTENER SPACING SHALL BE 10" FOR RAFTERS AND PURLINS

FASTENERS SHALL BE #12 X 3/8" SELF DRILLING SCREWS WITH CONTROLSEAL WASHER. USE LAP JOINT SEALANT AT LOCATIONS LESS THAN # PITCH

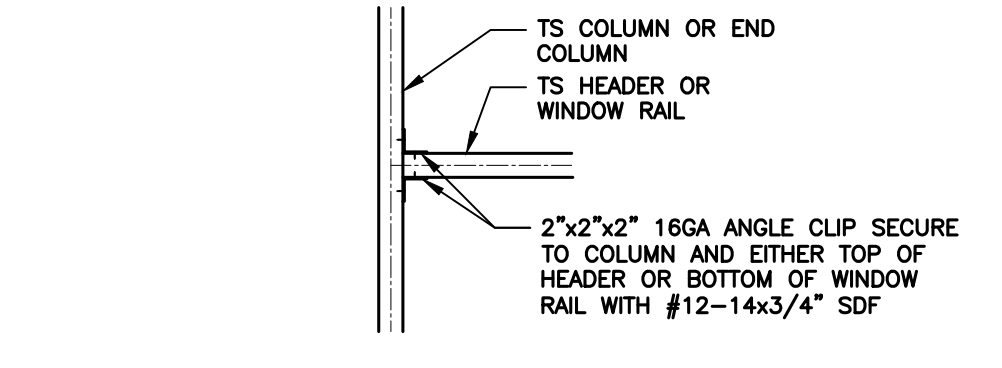
ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN (POST) ALONG SIDES AND ENDS.



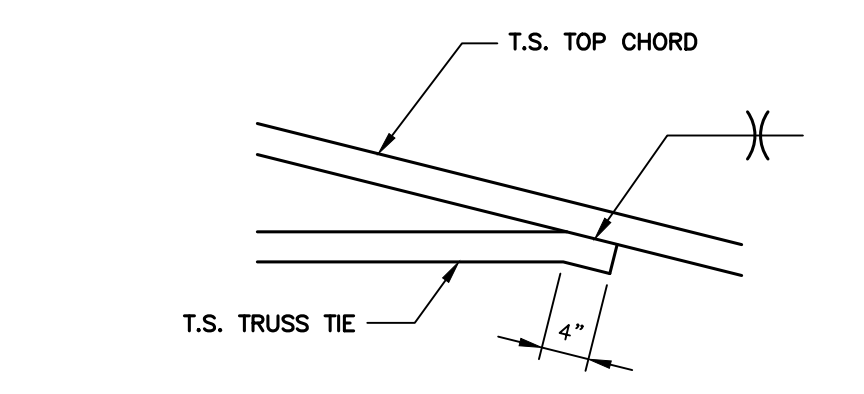
**10 SIDE WALL / END WALL HEADER OPTIONS**  
 SCALE: 3/4" = 1'-0"



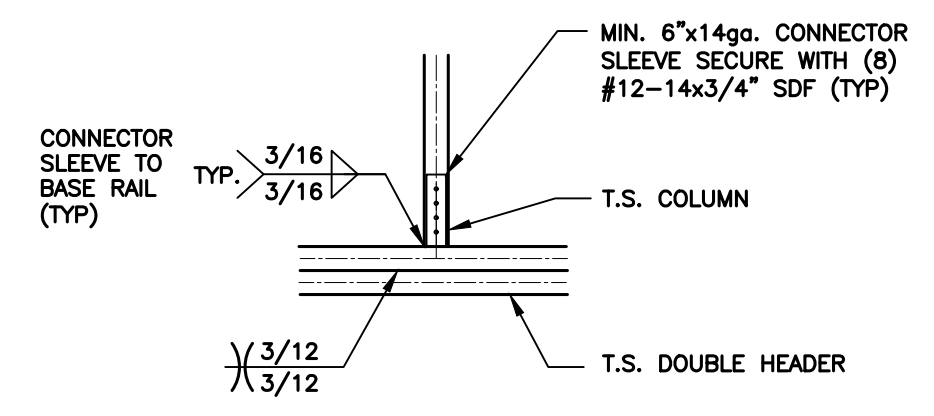
**9 END WALL COLUMN / BASE RAIL CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



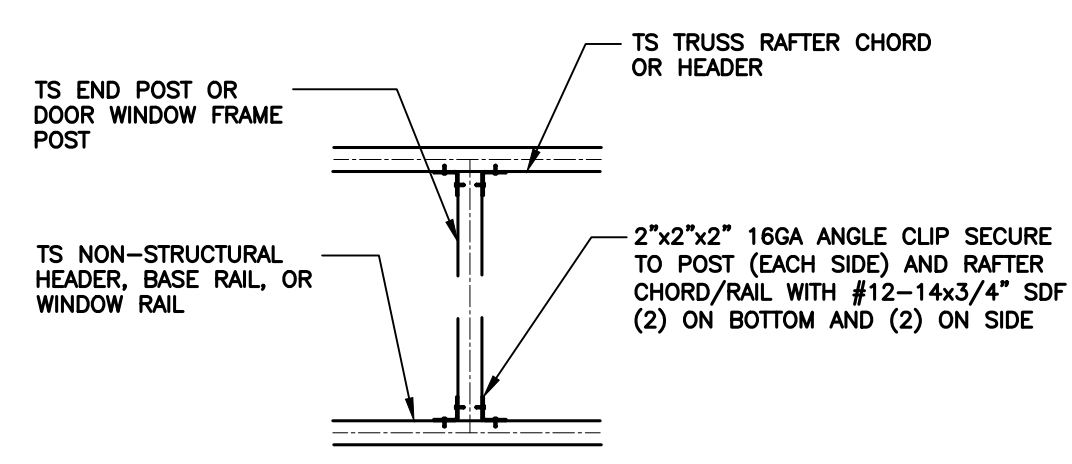
**6 COLUMN OR WINDOW RAIL GIRT TO POST CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



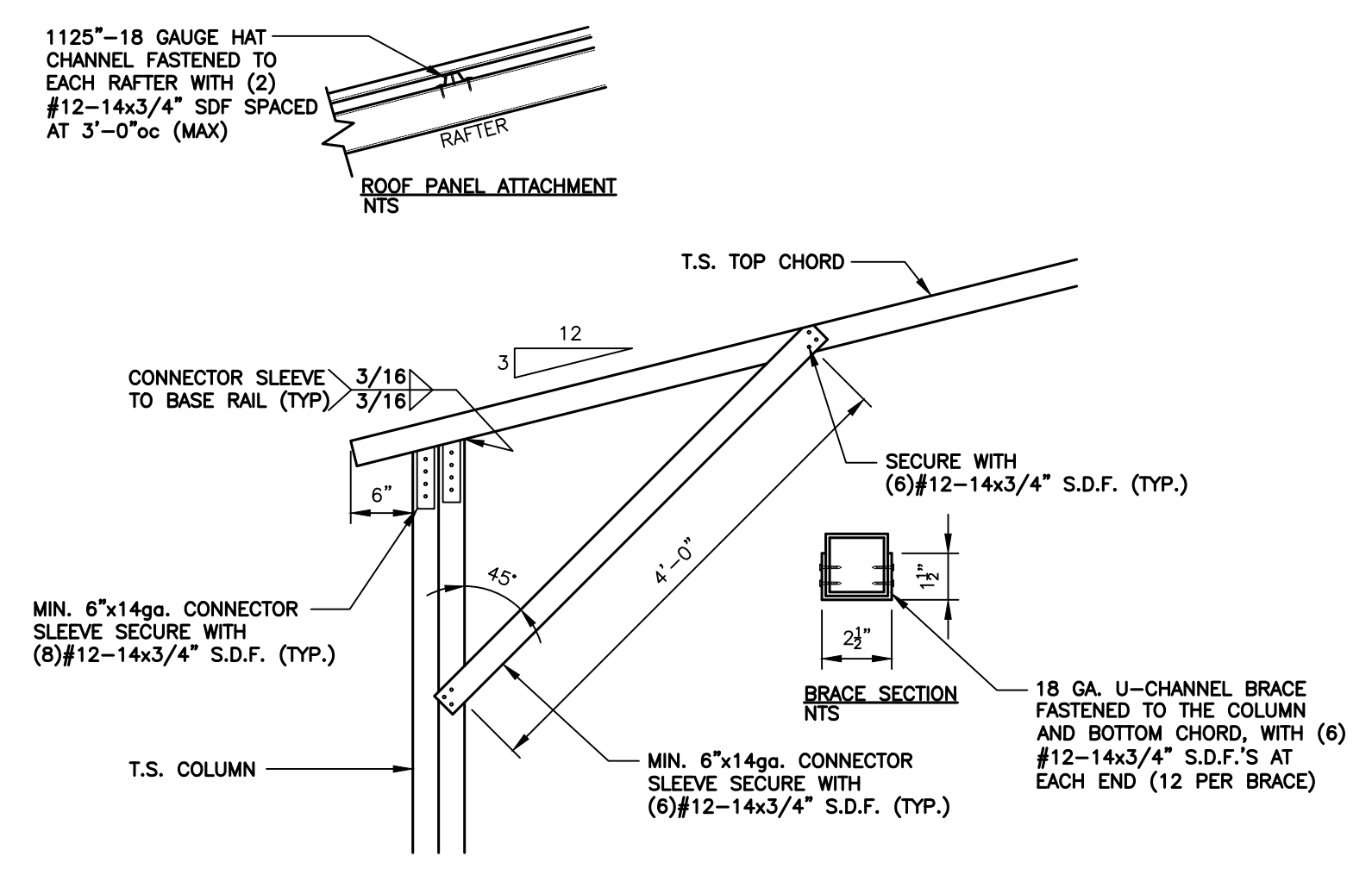
**3 TRUSS TIE CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



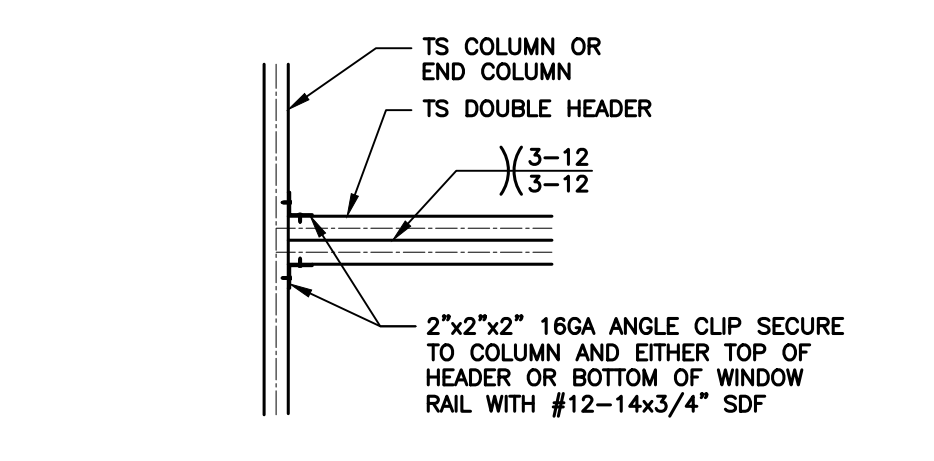
**8 COLUMN / DOUBLE HEADER CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



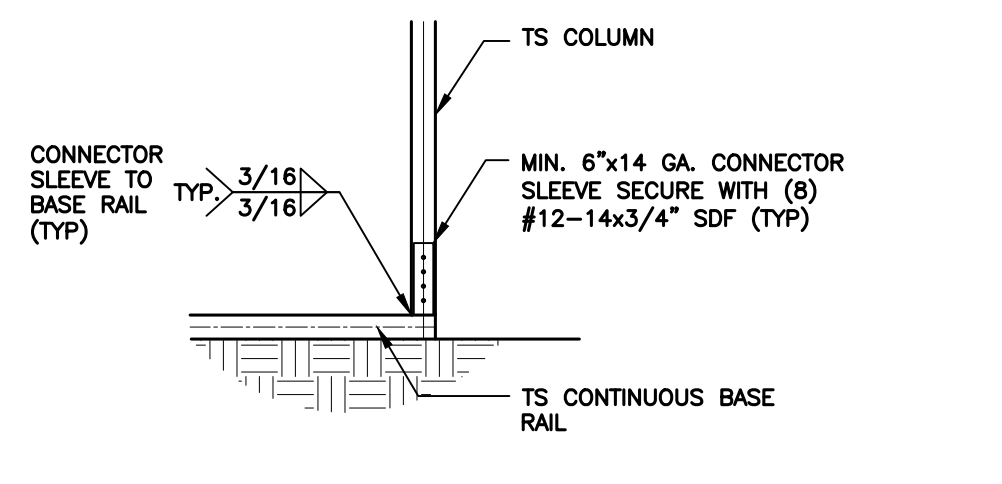
**5 DOOR OR WINDOW HEADER RAIL TO POST CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



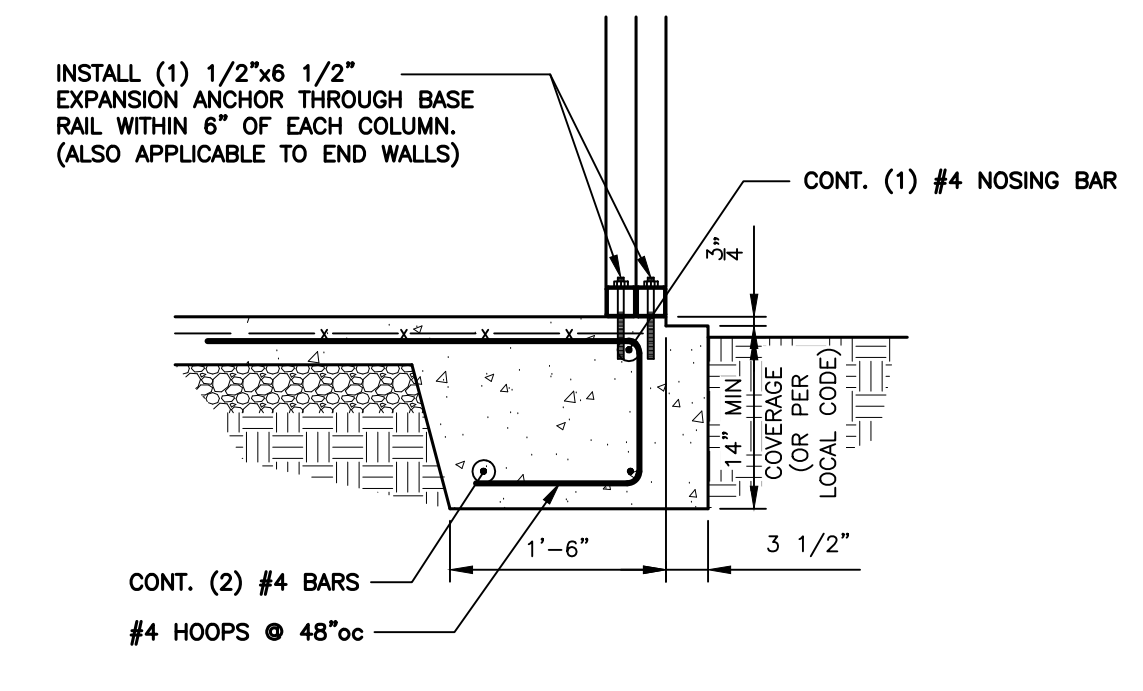
**2 BOX EAVE RAFTER / COLUMN CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



**7 COLUMN/DOUBLE HEADER CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



**4 COLUMN / BASE RAIL CONNECTION DETAIL**  
 SCALE: 3/4" = 1'-0"



**1 BASE RAIL ANCHORAGE DETAIL**  
 SCALE: 3/4" = 1'-0"

	<p>TAYLOR &amp; VIOLA                  STRUCTURAL ENGINEERS                  P.O. BOX 2036 HICKORY, NORTH CAROLINA                  TEL: 828-328-6331 FAX: 828-322-1801                  WWW.TAYLORVIOLA.COM</p>	Tina Grooms 3254 Boy Wood Road Graham, NC 27253	
		Date: 06/22/22 Revisions:	JCMT Associates 211 Stone Drive, Pilot Mountain, NC 27041 Telephone: (336) 398-8277