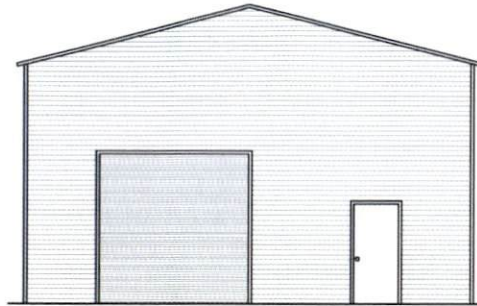




ENCLOSED GABLE END BUILDING

MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

FOR:

Joyce Allen
44 Englewood Circle
Sanford NC 27332

ISSUE DATE: 04/22/25



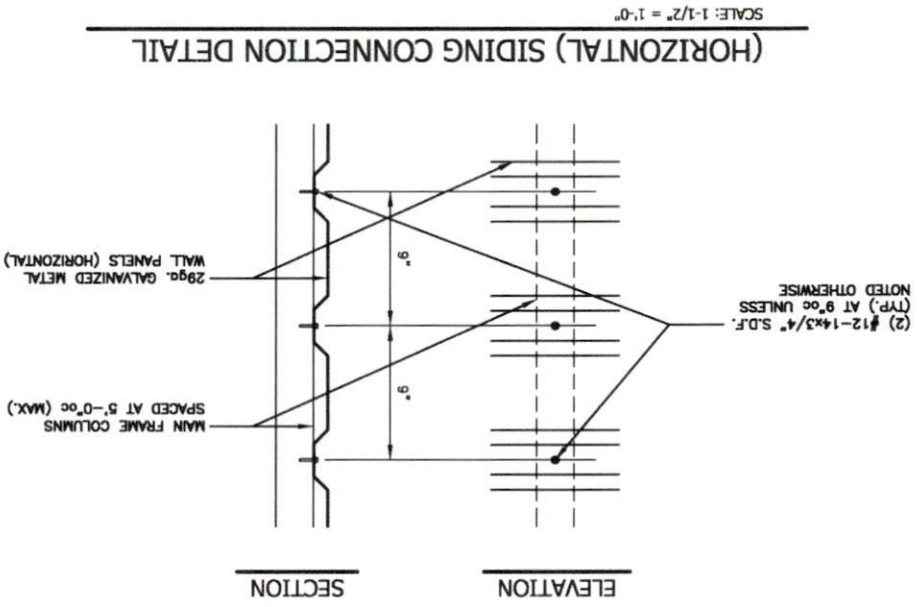
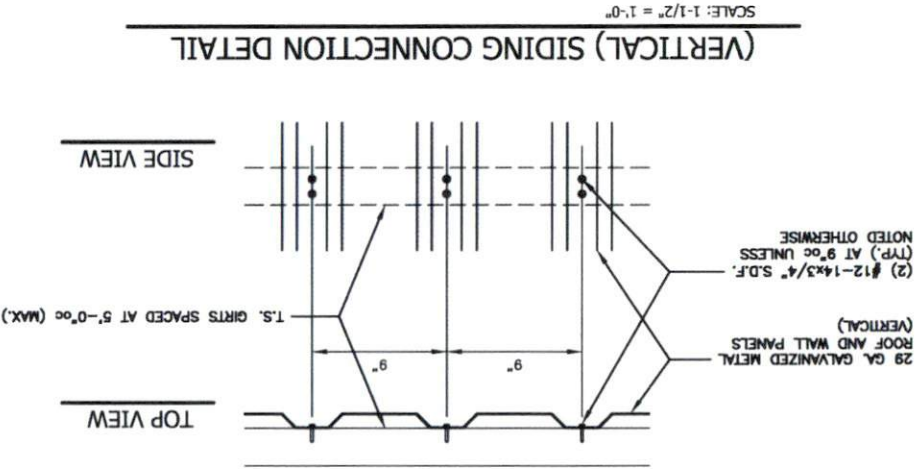
THESE PLANS HAVE BEEN PROPERLY
EXAMINED BY THE UNDERSIGNED.I
DETERMINED THAT THEY COMPLY
WITH EXISTING LOCAL NORTH
CAROLINA CODES AND ARE
APPROPRIATE FOR USE IN THIS AREA



INDEX OF DRAWINGS

S0	-	COVERSHEET
S0A	-	INDEX OF DRAWINGS
S0B	-	APPENDIX 'B'
S1	-	TYPICAL END / SIDE ELEVATIONS
S2	-	TYPICAL RAFTER / COLUMN FRAME SECTIONS (<24' WIDE / <16' HIGH)
S2A	-	TYPICAL RAFTER / COLUMN FRAME SECTIONS (>25' TO <30' WIDE / <16' HIGH)
S3	-	TYPICAL SIDE / END FRAMING SECTIONS
S4	-	BOX EAVE / SINGLE COLUMN OPTIONS (<24' / <16' HIGH)
S4A	-	BOX EAVE / DOUBLE COLUMN OPTIONS (>25' TO <30' / <16' HIGH)
S5	-	SINGLE COLUMN FOUNDATION
S5A	-	SINGLE COLUMN FOUNDATION - NO SIDING LEDGE
S5B	-	SINGLE COLUMN FOUNDATION - CLIP ANGLE OPTION
S5C	-	DOUBLE COLUMN FOUNDATION
S5D	-	DOUBLE COLUMN FOUNDATION - NO SIDING LEDGE
S6	-	ALTERNATE ANCHORAGE OPTIONS
S7	-	TYPICAL END / SIDE WALL OPENING FRAMING SECTIONS
S8	-	BASE RAIL CONNECTION DETAILS
S8A	-	CONNECTION DETAILS
S8B	-	TRUSS CONNECTION DETAILS
S9	-	LEAN-TO FRAMING OPTIONS
S9A	-	LEAN-TO HIP FRAMING OPTIONS
S10	-	LEAN-TO FRAMING OPTIONS
S10B	-	LEAN-TO FRAMING OPTIONS
S10C	-	LEAN-TO FRAMING OPTIONS
S10D	-	LEAN-TO FRAMING OPTIONS
S11	-	VERTICAL ROOF / SIDING OPTIONS
S11A	-	VERTICAL ROOF / SIDING OPTIONS
S12	-	HEADER OPTIONS

	211 Stone Drive Pilot Mountain, NC 27041 336-399-6277		Project No. 0125-0385
			Sheet No. S0A
Joyce Allen 44 Englewood Circle Sanford NC 27332		ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)	
		Date: 04/22/25	Revisions: -
 04/23/2025			



APPENDIX "B" STRUCTURAL DESIGN

DESIGN LOADS:

IMPORTANCE FACTORS	WIND	SNOW	SEISMIC
(1w)	1.00	1.00	1.00
(1s)	1.00	1.00	1.00

DEAD LOADS:

ROOF	ROOF COLLATERAL	ROOF
13	0	20
P.S.F.	P.S.F.	P.S.F.

LIVE LOADS:

GROUND SNOW LOAD:	P.S.F.
10	20
P.S.F.	P.S.F.

WIND LOAD:

BASIC WIND SPEED	EXPOSURE CATEGORY	M.P.H. ASCE 7-10
115	C	115
P.S.F.	P.S.F.	P.S.F.

P.S.F. DRAFT LOAD HAS NOT BEEN CALCULATED

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

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

SPECTRAL RESPONSE ACCELERATION: S_a 20.3 S_i 9.3 S_d 9.3

SITE CLASSIFICATION: ☐ D ☐ FIELD TEST ☒ PRESUMPTIVE ☐ HISTORICAL DATA

BASIC STRUCTURAL SYSTEM (CHECK ONE):

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

ANALYSIS PROCEDURE: ☒ SIMULATED ☐ EQUIVALENT LATERAL FORCE ☐ MODAL

LATERAL DESIGN CONTROL: ☐ EARTHQUAKE ☒ WIND

SOIL BEARING CAPACITIES: ☐ PRESUMPTIVE BEARING CAPACITIES: 1,500 P.S.F.

GENERAL NOTES:

1. MAX FRAME SPACING SHALL BE 80'oc UNLESS NOTED OTHERWISE.
2. MAX END-WALL COLUMN SPACING SHALL BE 80'oc UNLESS NOTED OTHERWISE.
3. TUBE MATERIAL SHALL BE 2-1/2" x 2-1/2" x 14ga. 50 K.S.I. MIN. UNLESS NOTED OTHERWISE.
4. ALL FASTENERS SHALL BE (2) #12 SELF TAPPING AT 8"oc UNLESS NOTED OTHERWISE.
5. 1,500 PSF ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.
6. THESE DRAWINGS ARE NOT APPLICABLE TO OPEN / PARTIALLY OPEN BUILDINGS.
7. THESE DRAWINGS ARE NOT DESIGNED FOR SLEEPING QUARTERS.
8. IF FRAMES ARE SPACED AT 48'oc, THEN GROUND SNOW LOAD CAPACITY INCREASES TO 43.5 P.S.F.
9. IF FRAMES ARE SPACED AT 42'oc, THEN GROUND SNOW LOAD CAPACITY INCREASES TO 47 P.S.F.

PROJECT INFORMATION

Project No. 0125-0385
Sheet No. S01B

ENCLOSED GABLE END BUILDING

44 Englewood Circle
Santford NC 27332

JCMT ASSOCIATES, PLLC
211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

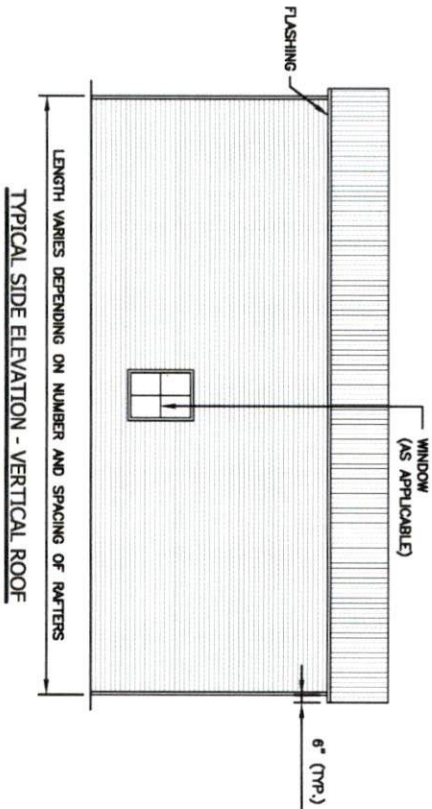
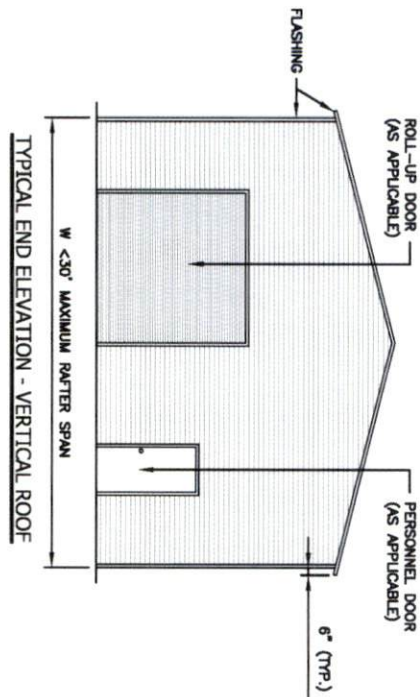
DATE: 04/22/25
REVISIONS:

MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

04/23/2025
V1.6

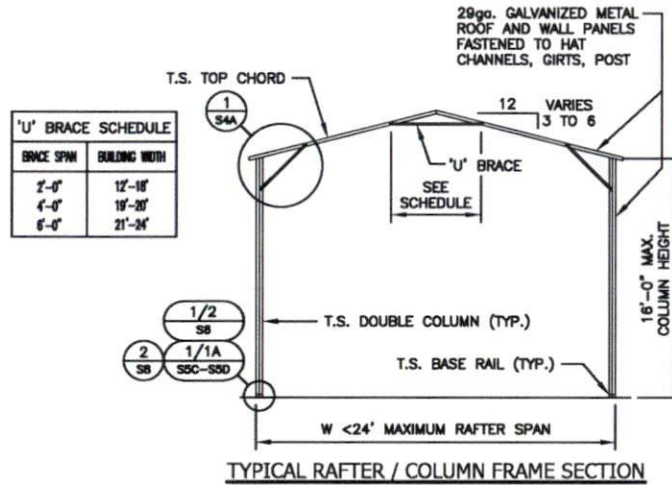
SEAL
27874
NORTH CAROLINA PROFESSIONAL ENGINEER
JASON M. REED

BOX EYE FRAME RAFTER STRUCTURE

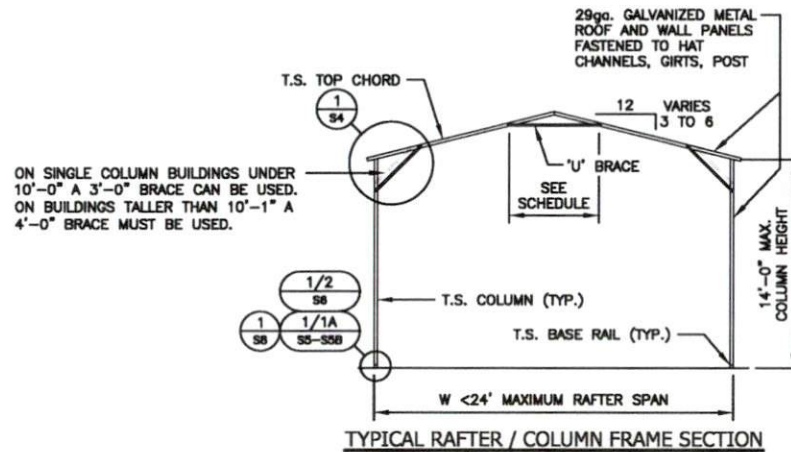


	Joyce Allen 44 Englewood Circle Sanford NC 27332		JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277		Project No. 0125-0385
	ENCLOSED GABLE END BUILDING				Sheet No. S1
	Date: 04/22/25	MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)			

(<24' WIDE / <16' HIGH) BOX EVE RAFTER END WALL SECTIONS

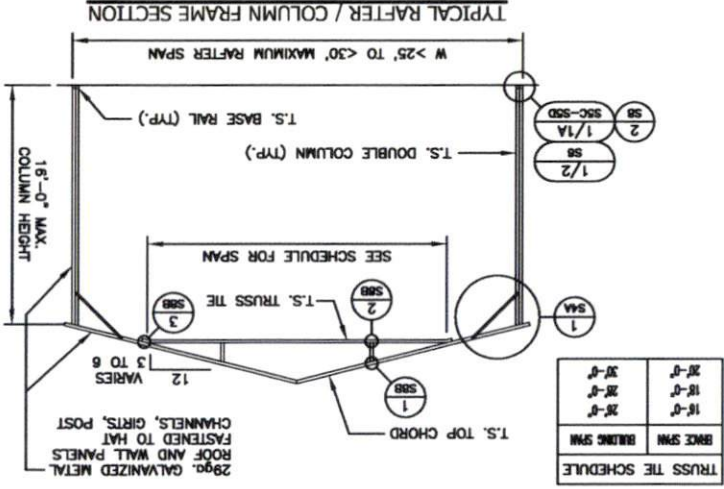


NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x12ga.
MATERIAL MAY BE USED FOR TRUSS METAL.

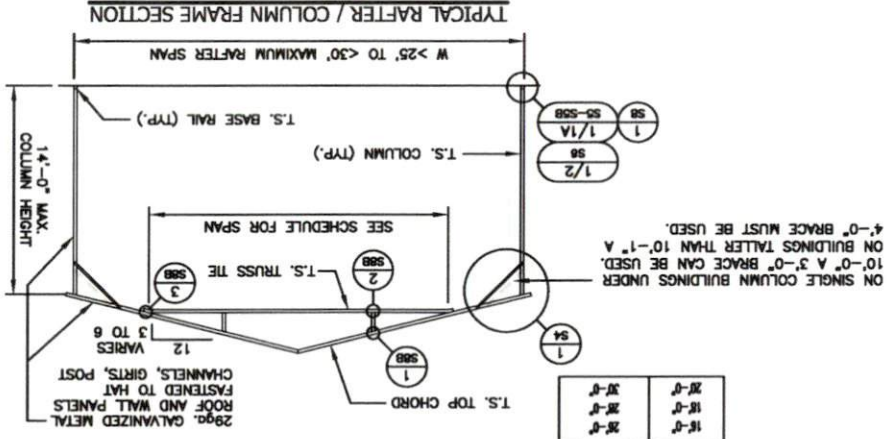


JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385
	Sheet No. S2
Joyce Allen 44 Englewood Circle Sanford NC 27332	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)
Date: 04/22/25	Revisions:
NORTH CAROLINA PROFESSIONAL SEAL 27874 JASON M. REEP 04/23/2025 V1.5	

(> 25' - < 30' WIDE / < 16' HIGH) BOX EYE RAFTER END WALL SECTIONS



NOTE:
H.S.S. 2-1/2"x2-1/2"x1/4ga. OR 2-1/4"x2-1/4"x1/2ga.
MATERIAL MAY BE USED FOR TRUSS METAL



ON SINGLE COLUMN BUILDINGS UNDER 10'-0" A 3'-0" BRACE CAN BE USED. 4'-0" BRACE MUST BE USED.

Project No. 0125-0385
Sheet No. S2A

ENCLOSED GABLE END BUILDING

MAXIMUM > 0' TO < 30' WIDE x < 16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

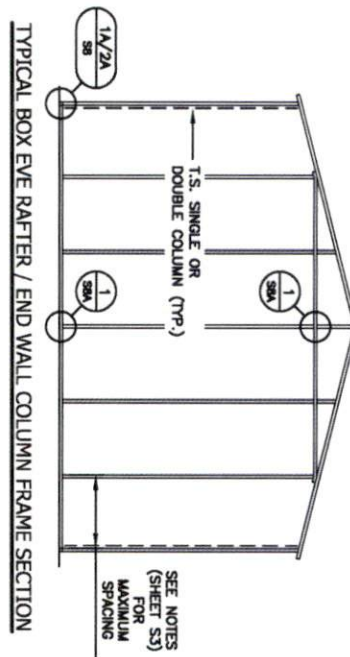
JOYCE ALLEN
44 Englewood Circle
Sanford NC 27332

JCMT
ASSOCIATES, PLLC
211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

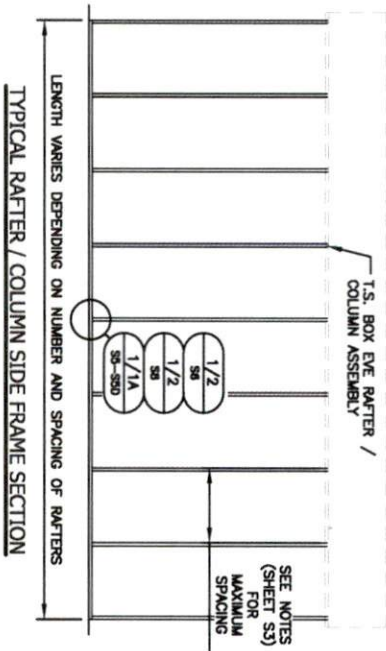
Date: 04/22/25
Revisions:

04/23/2025
VLS

TYPICAL SIDE / END FRAMING ELEVATIONS

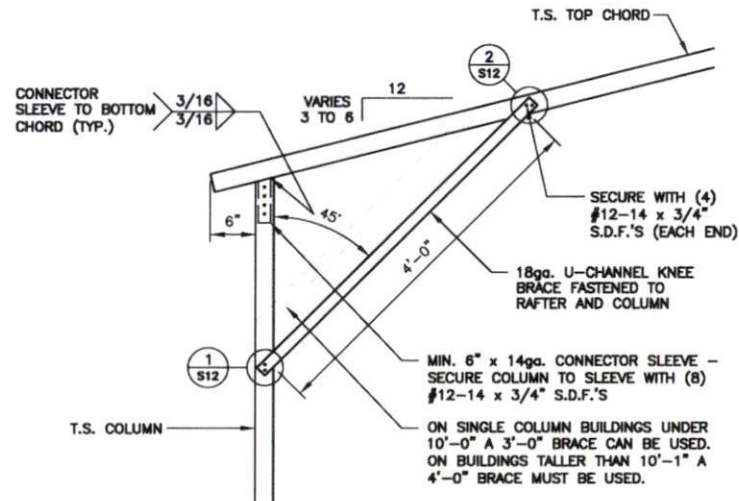


NOTE:
H.S.S. 2-1/2"x2-1/2"x14ga. OR 2-1/4"x2-1/4"x12ga.
MATERIAL MAY BE USED FOR TRUSS METAL.



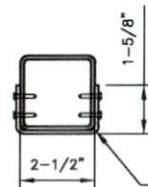
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	Revisions: -			Enclosed Gable End Building MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

SINGLE COLUMN OPTIONS (<14'-0" COLUMN HEIGHT)



BOX EAVE / CORNER POST CONNECTION DETAIL
FOR HEIGHTS <14'-0"

SCALE: 3/4" = 1'-0"

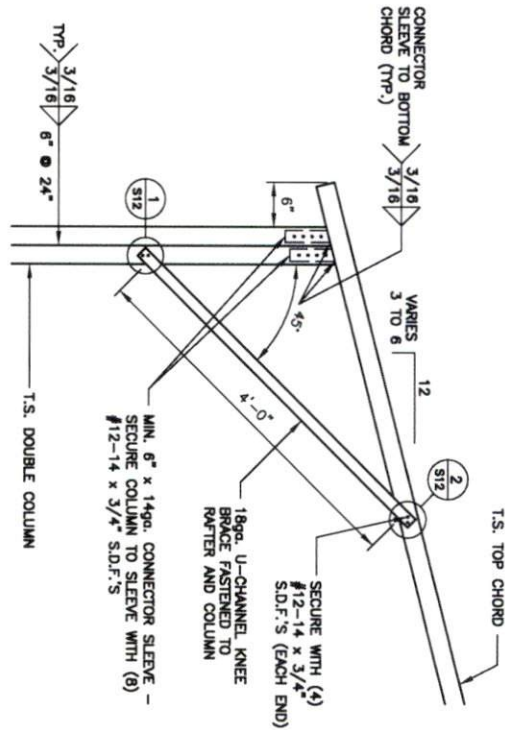


BRACE
SECTION

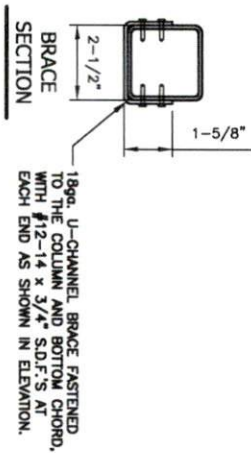
18ga. U-CHANNEL BRACE FASTENED
TO THE COLUMN AND BOTTOM CHORD,
WITH #12-14 x 3/4" S.D.F.'S AT
EACH END AS SHOWN IN ELEVATION.

JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385	Sheet No. S4
	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)	
Joyce Allen 44 Englewood Circle Sanford NC 27332	Date: 04/22/25	Revisions:

DOUBLE COLUMN OPTIONS (>14'-1" TO <16'-0" COLUMN HEIGHT)



1
BOX EAVE / CORNER POST CONNECTION DETAIL
FOR HEIGHTS >14'-1" TO <16'-0"
SCALE: 3/4" = 1'-0"

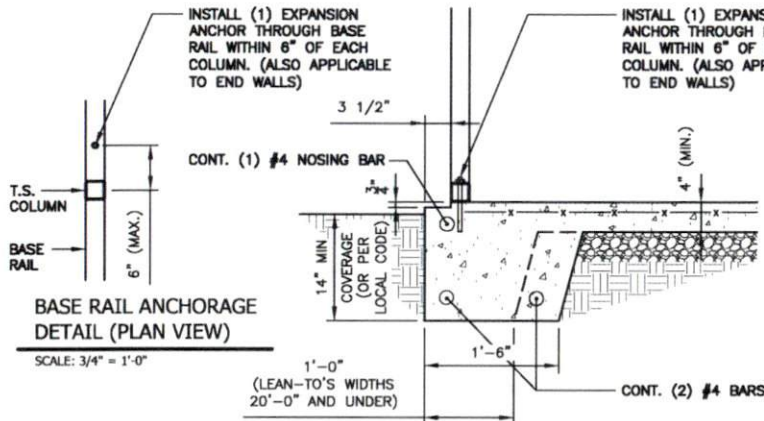


	Date: 04/22/25 Revisions: -	Joyce Allen 44 Englewood Circle Sanford NC 27332		JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385 Sheet No. S4A
VI.6		ENCLOSED GABLE END BUILDING		MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)	

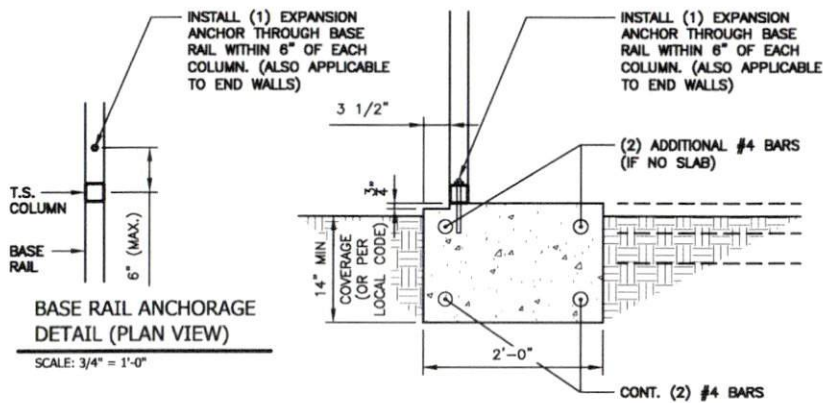
(LEAN-TO) SINGLE COLUMN OPTIONS
(ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 8" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 8" EXPANSION ANCHOR

GENERAL NOTE:
ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,000 P.S.F.
CONCRETE: CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318, 31" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND FORMED IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.
REINFORCING STEEL:
THE REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A630 OR FIBERGLASS FIBER REINFORCEMENT.
REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. THE REINFORCEMENT IS BENT CORRECTLY.
2. THE SPACING OF THE BARS MEASURED ON THE INSIDE OF THE BEND IS NOT LESS THAN 4 TIMES THE BEND RADIUS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



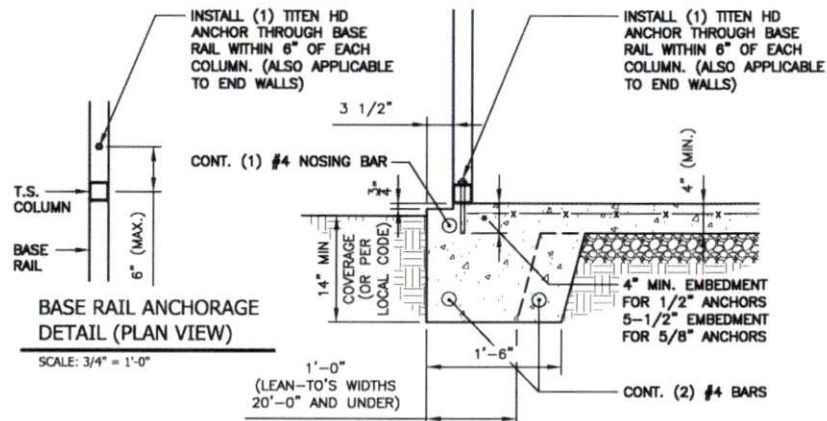
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S5 BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



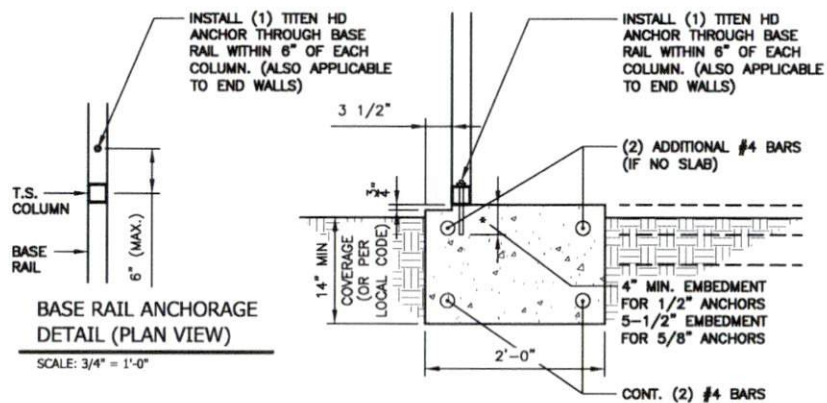
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S5 BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"

(LEAN-TO) SINGLE COLUMN OPTIONS
(TITEN HD ANCHORS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 125 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 135 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 145 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



1B
S5 BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1C
S5 BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

JCMT
ASSOCIATES, PLLC
211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

Joyce Allen
44 Englewood Circle
Sanford NC 27332

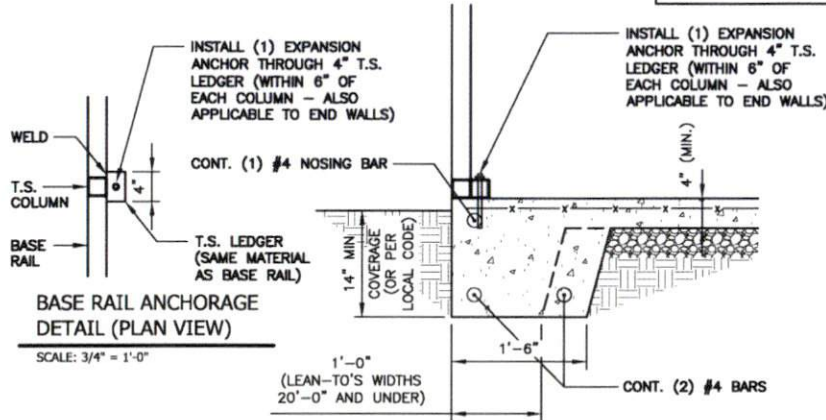
Project No. 0125-0385
Sheet No. S5
ENCLOSED GABLE END BUILDING
MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

DATE: 04/22/25
REVISIONS:
NORTH CAROLINA
SEAL
27874
ENGINEER
WASON M. REED
04/23/2025
VLS

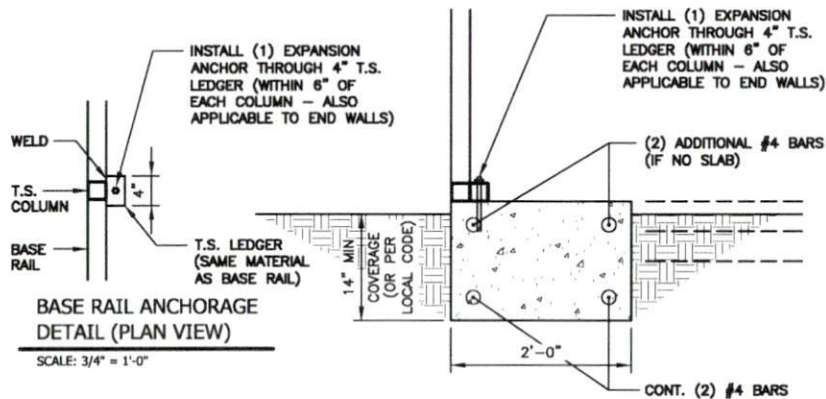
(LEAN-TO) SINGLE COLUMN OPTIONS - NO SIDING LEDGE
(ANCHOR BOLTS)

WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 5-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 8" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 8" EXPANSION ANCHOR

GENERAL NOTE:
ALL CONCRETE MINIMUM SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,000 P.S.F.
CONCRETE:
CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER AC-308, 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE WEATHER AND REINFORCED WITH 1-1/2" ELSEWHERE.
REINFORCING STEEL:
THE TURNOUT REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC WITH A106 OR F142400 REINFORCEMENT.
REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COOL.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BEND, IS NOT LESS THAN 24-BAR DIAMETER.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



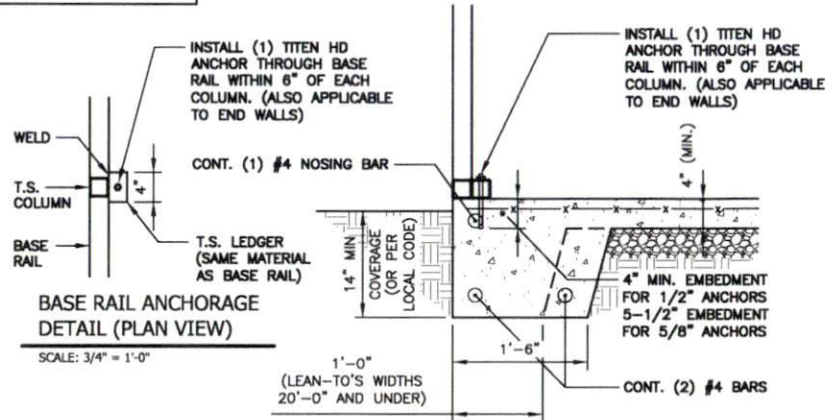
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SSA BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



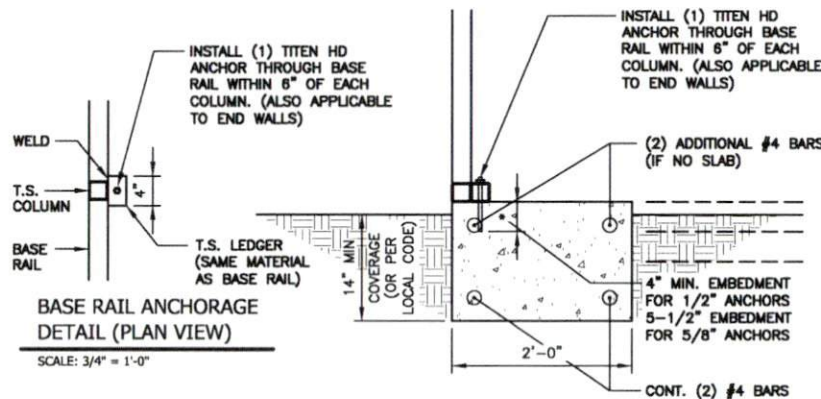
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SSA BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"

(LEAN-TO) SINGLE COLUMN OPTIONS - NO SIDING LEDGE
(TITEN HD ANCHORS)

WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 125 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 135 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 145 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



1B
SSA BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1C
SSA BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

JCMT
ASSOCIATES, PLLC

211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

Joyce Allen
44 Englewood Circle
Sanford NC 27332

ENCLOSED GABLE END BUILDING

MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

Project No.
0125-0385

Sheet No.
SSA

Date:
04/22/25

Revisions:



VLS

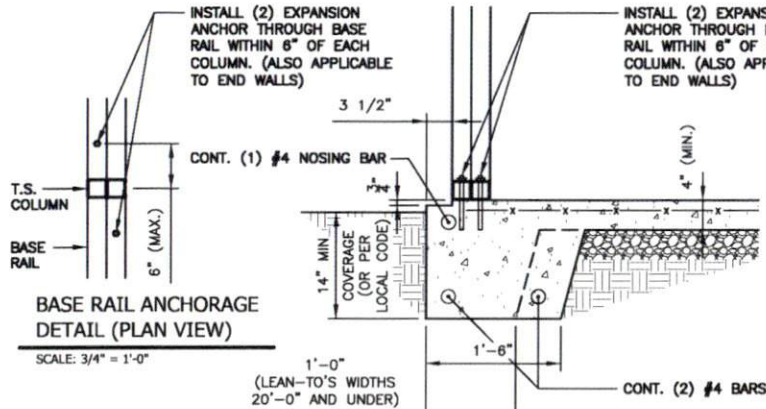
DOUBLE COLUMN OPTIONS (ANCHOR BOLTS)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 8" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 8" EXPANSION ANCHOR

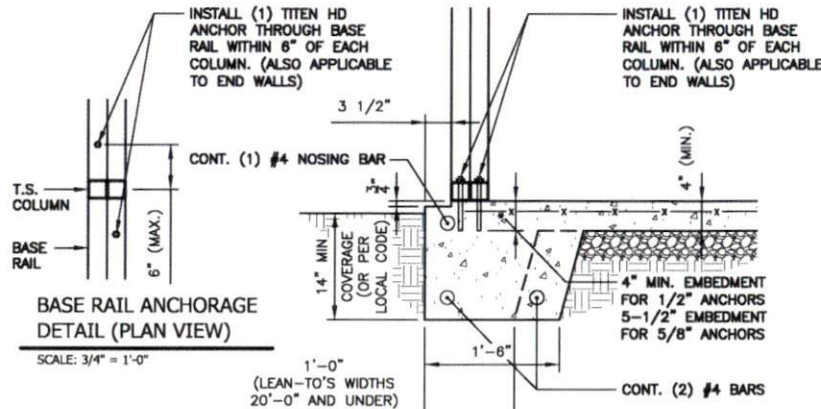
REINFORCING NOTE:
ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,000 P.S.F.
CONCRETE: CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
COVER OVER REINFORCING STEEL:
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING SHALL BE PER AC-308.7" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE WEATHER AND WEATHER AND 1-1/2" ELSEWHERE.
REINFORCING STEEL:
THE UNKNOWN REINFORCING STEEL SHALL BE NEW A500 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING A500 OR FURNISHED PRIOR REINFORCEMENT.
REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BEND, IS NOT LESS THAN 8X BEND DIAMETER.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.

DOUBLE COLUMN OPTIONS (TITEN HD ANCHORS)

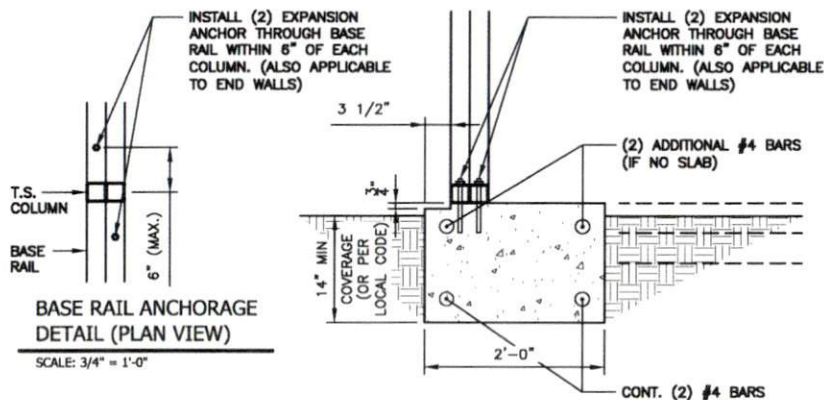
ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 125 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 135 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 145 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



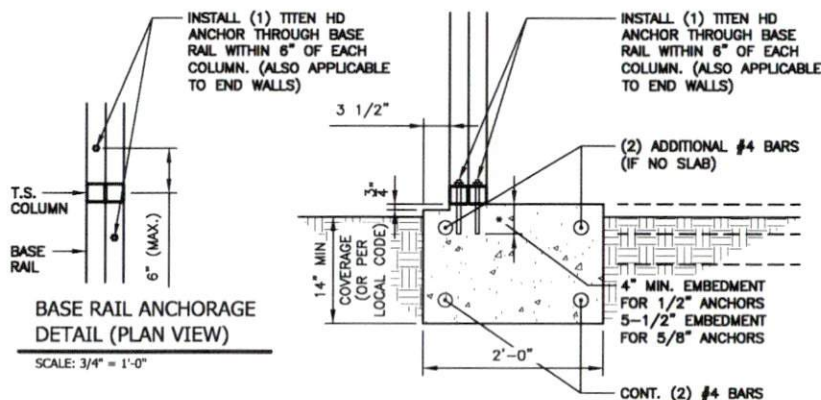
1 SSC BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"



1B SSC BASE RAIL ANCHORAGE DETAIL (TITEN HD)
SCALE: 3/4" = 1'-0"



1A SSC BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SCALE: 3/4" = 1'-0"



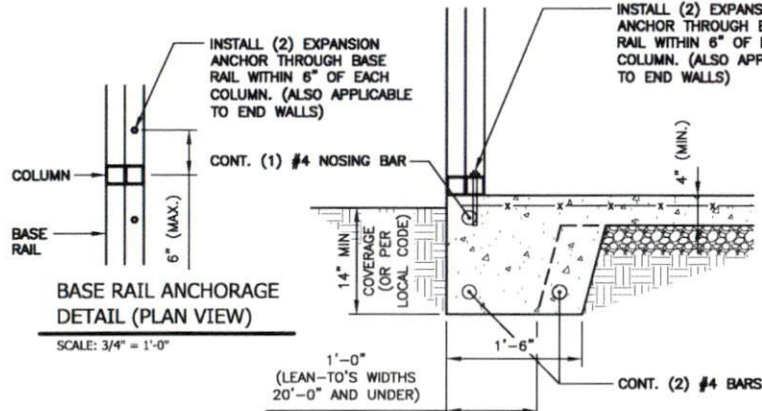
1C SSC BASE RAIL ANCHORAGE DETAIL (NO SLAB - TITEN HD)
SCALE: 3/4" = 1'-0"

JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385 Sheet No. SSC
Joyce Allen 44 Englewood Circle Sanford NC 27332	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)
Date: 04/22/25 Revisions:	Professional Engineer NORTH CAROLINA SEAL 27874 JASON M. REEP 04/23/2025 V1.5

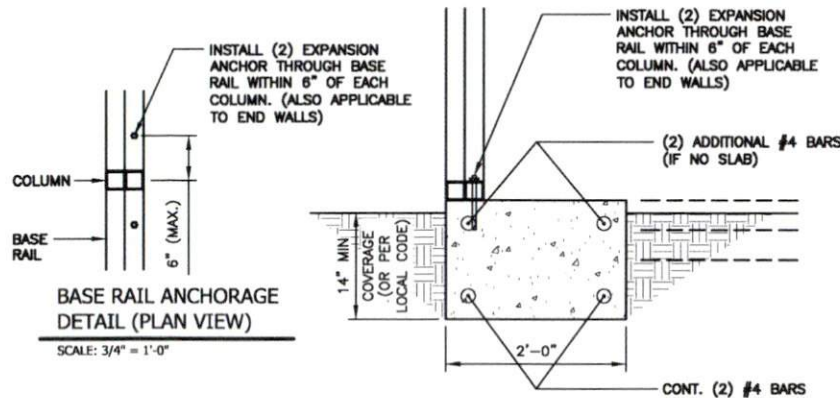
DOUBLE COLUMN OPTIONS - NO SIDING LEDGE (ANCHOR BOLTS)

ANCHOR BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 125 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 135 M.P.H.	1/2" x 8" EXPANSION ANCHOR
UP TO 145 M.P.H.	1/2" x 8" EXPANSION ANCHOR

REVISION: 01/20/2025
ALL CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 P.S.F.
CONCRETE: CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS.
COVER OVER REINFORCING STEEL: FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING STEEL SHALL BE PER AC-308, 5" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.
REINFORCING STEEL: THE REINFORCING STEEL SHALL BE ASTM A631 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.
REINFORCEMENT MAY BE BENT IN THE SHOP OR IN THE FIELD PROVIDED:
1. REINFORCEMENT IS BENT COOL.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BEND, IS NOT LESS THAN TWO-TWO TIMES THE DIAMETER.
3. REINFORCEMENT PARTIALLY ENCASED IN CONCRETE SHALL NOT BE FIELD BENT.



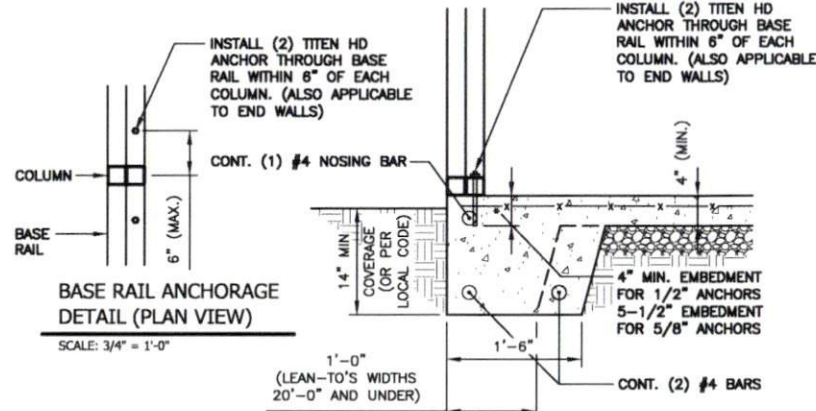
1 BASE RAIL ANCHORAGE DETAIL
SSD SCALE: 3/4" = 1'-0"



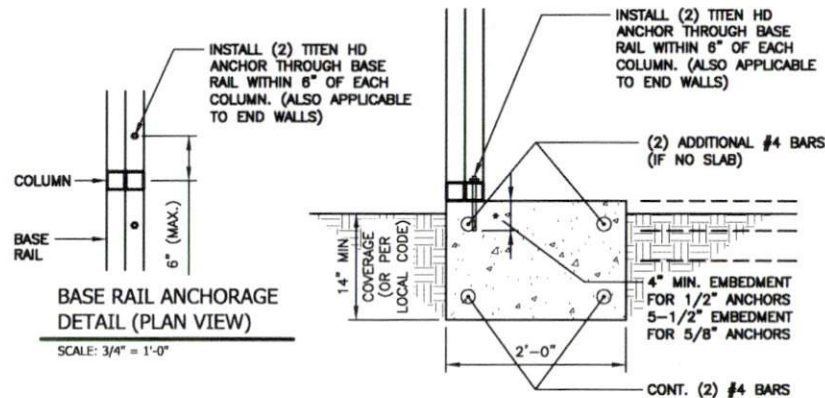
1A BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SSD SCALE: 3/4" = 1'-0"

DOUBLE COLUMN OPTIONS - NO SIDING LEDGE (TITEN HD ANCHORS)

ANCHOR BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 115 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 125 M.P.H.	1/2" x 4" EMBEDMENT (TITEN HD)
UP TO 135 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)
UP TO 145 M.P.H.	5/8" x 5-1/2" EMBEDMENT (TITEN HD)



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



1C BASE RAIL ANCHORAGE DETAIL (NO SLAB)
SSD SCALE: 3/4" = 1'-0"

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211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

Joyce Allen
44 Englewood Circle
Sanford NC 27332

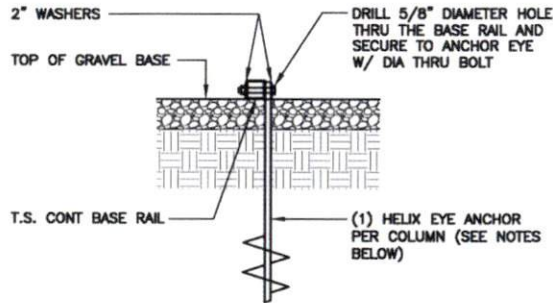
Project No.
0125-0385
Sheet No.
SSD

ENCLOSED GABLE END BUILDING
MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

Date:
04/22/25
Revisions:

SEAL
27874
ENGINEER
JASON M. REEF
04/23/2025
VLS

ALTERNATE ANCHORAGE OPTIONS



1
S6
BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"

HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMENTED SANDS, COARSE GRAVEL, COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MIN. (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 25'oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR CORAL, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 25'oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

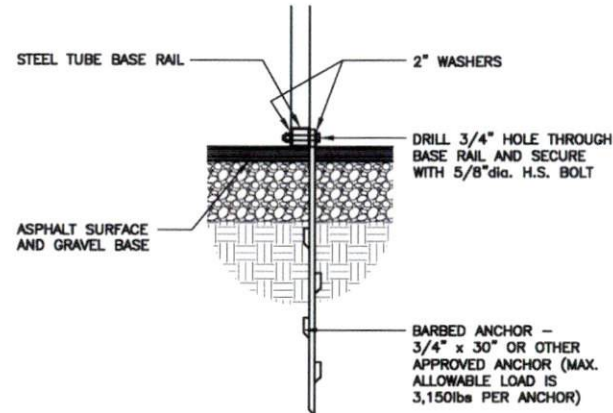
FOR MED DENSE COARSE SANDS, SANDY GRAVEL, VERY STIFF SILTS, AND CLAYS, USE MIN (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH 50" EMBEDMENT - ONE EACH END BASE RAIL AND 25'oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS, USE MIN (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT - ONE EACH END BASE RAIL AND 25'oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

FOR VERY LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS AND ALLUVIAL FILL, USE MIN (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT - ONE EACH END BASE RAIL AND 25'oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.

NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.



2
S6
ASPHALT / BASE RAIL ANCHORAGE DETAIL
SCALE: 3/4" = 1'-0"

BARBED ANCHOR EMBEDMENT INFORMATION:

(1) ASPHALT ANCHOR WITHIN 6" OF EACH COLUMN.

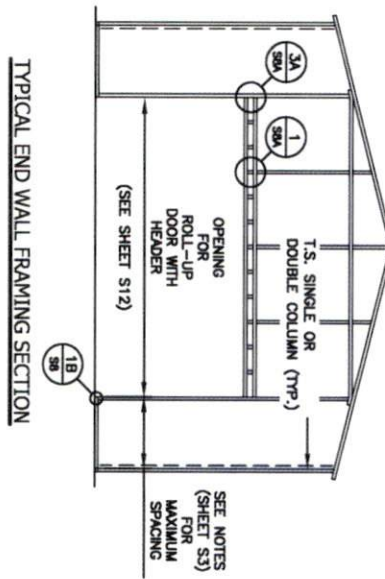
NOTE:

IN ALL CASES, IF FROST DEPTH EXCEEDS STATED DEPTH, ANCHOR SHOULD EXTEND A MIN. OF 12" BELOW FROST LINE.

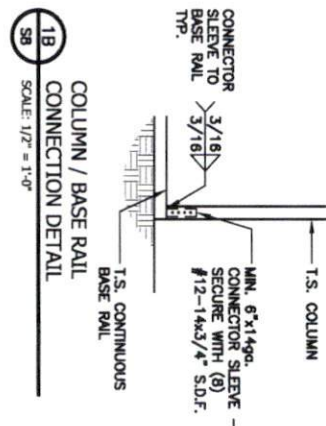
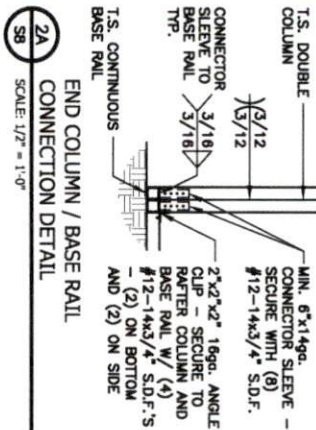
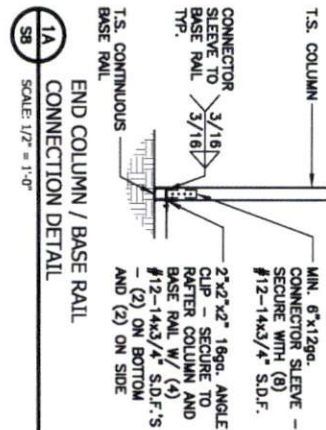
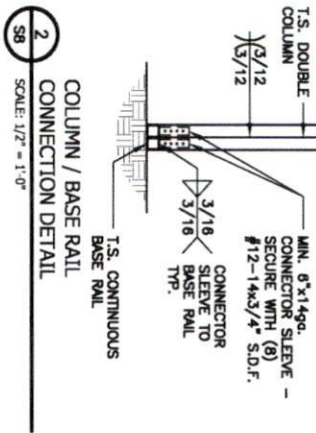
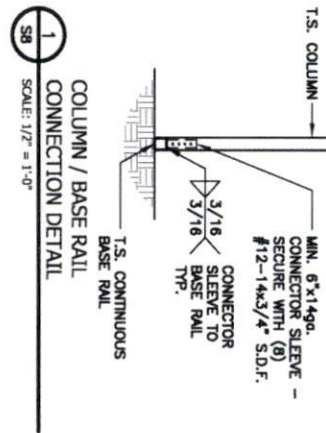
JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385 Sheet No. S6
Joyce Allen 44 Englewood Circle Sanford NC 27332	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)
Date: 04/22/25 Revisions:	SEAL 27874 ENGINEER DAVID M. REED 04/23/2025 VLS

TYPICAL SIDE / END WALL OPENING FRAMING SECTIONS

NOTE:
ROLL UP DOORS SHALL HAVE ONE JAMB
EACH SIDE + ONE FRAME COLUMN BETWEEN
OR SITE SPECIFIC SHALL BE REQ'D.



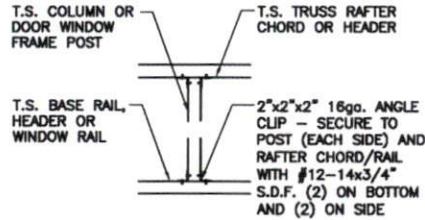
BASE RAIL CONNECTION DETAILS



JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277		Joyce Allen 44 Englewood Circle Sanford NC 27332		Project No. 0125-0385
ENCLOSED GABLE END BUILDING				Sheet No. S8
MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)				
Date: 04/22/25		Revisions:		
VI.6				



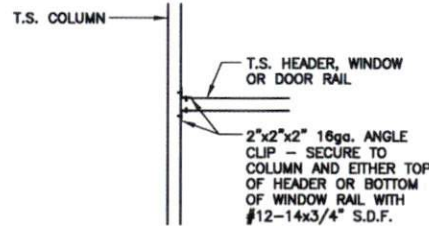
CONNECTION DETAILS



POST TO TRUSS / HEADER
CONNECTION DETAIL

1
S8A

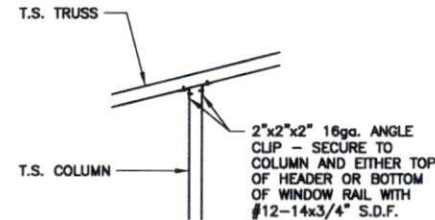
SCALE: 1/2" = 1'-0"



HEADER RAIL TO POST
CONNECTION DETAIL

1A
S8A

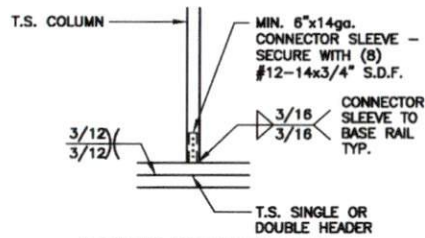
SCALE: 1/2" = 1'-0"



POST TO TRUSS
CONNECTION DETAIL

1B
S8A

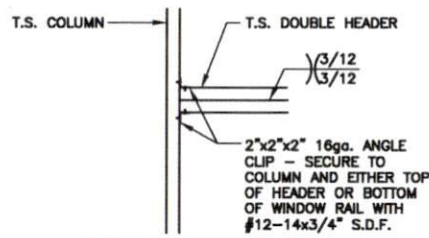
SCALE: 1/2" = 1'-0"



POST TO DOUBLE HEADER
CONNECTION DETAIL

2
S8A

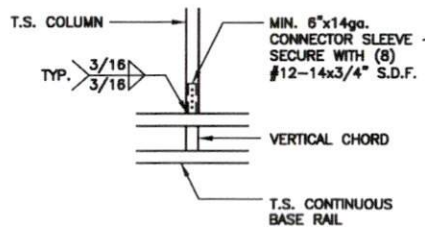
SCALE: 1/2" = 1'-0"



DOUBLE HEADER TO POST
CONNECTION DETAIL

2A
S8A

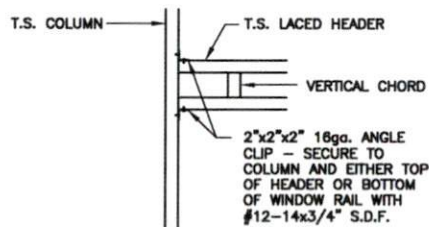
SCALE: 1/2" = 1'-0"



POST TO LACED HEADER
CONNECTION DETAIL

3
S8A

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



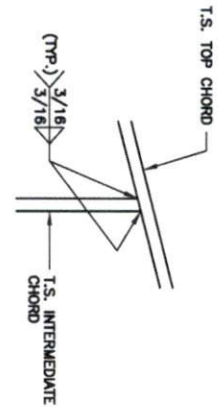
LACED HEADER TO POST
CONNECTION DETAIL

3A
S8A

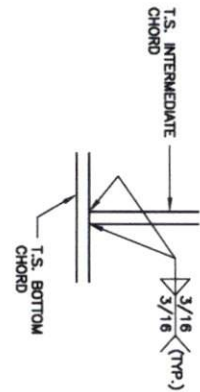
SCALE: 1/2" = 1'-0"

JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385	Sheet No. S8A
	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/13.5/47 P.S.F. SNOW LOAD(S)	
Joyce Allen 44 Englewood Circle Sanford NC 27332	Date: 04/22/25	Revisions:
 04/23/2025 VL6		

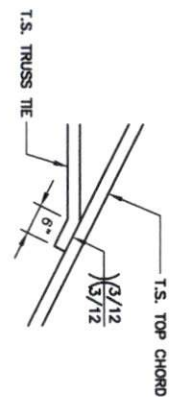
TRUSS CONNECTION DETAILS



1
S8B
INTERMEDIATE CHORD / TOP
CHORD CONNECTION DETAIL
SCALE: 1/2" = 1'-0"



2
S8B
INTERMEDIATE CHORD / BOTTOM
CHORD CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

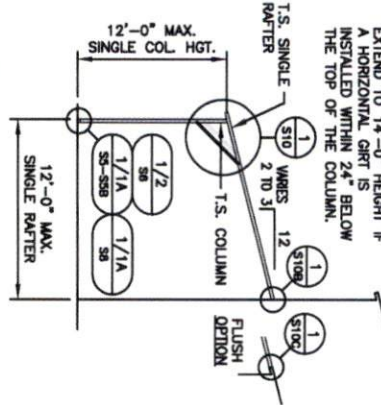


3
S8B
TRUSS TIE / TOP CHORD
CONNECTION DETAIL
SCALE: 1/2" = 1'-0"

	Joyce Allen 44 Englewood Circle Sanford NC 27332		JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385
	Date: 04/22/25	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)		Sheet No. S8B

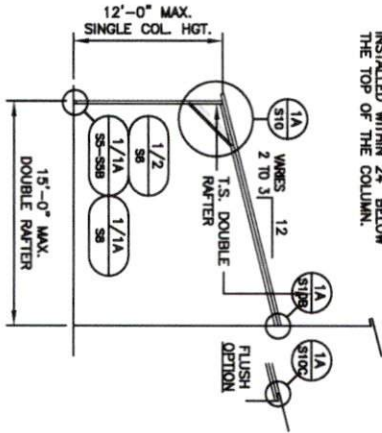
LEAN-TO FRAMING OPTIONS

NOTE:
SINGLE LEG LEAN-TO MAY
EXTEND TO 14'-0" HEIGHT IF
A HORIZONTAL GIRT IS
INSTALLED WITHIN 24" BELOW
THE TOP OF THE COLUMN.

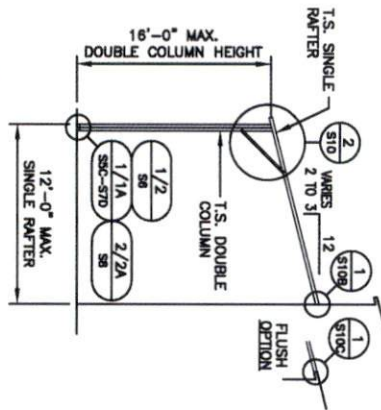


SINGLE RAFTER / SINGLE COLUMN
LEAN-TO FRAMING SECTION

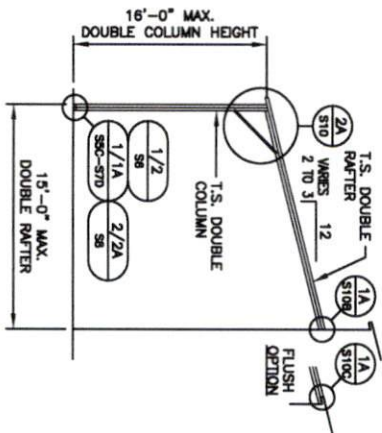
NOTE:
SINGLE LEG LEAN-TO MAY
EXTEND TO 14'-0" HEIGHT IF
A HORIZONTAL GIRT IS
INSTALLED WITHIN 24" BELOW
THE TOP OF THE COLUMN.



DOUBLE RAFTER / SINGLE COLUMN
LEAN-TO FRAMING SECTION



SINGLE RAFTER / DOUBLE COLUMN
LEAN-TO FRAMING SECTION



DOUBLE RAFTER / DOUBLE COLUMN
LEAN-TO FRAMING SECTION

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Pilot Mountain, NC 27041
336-399-6277

Joyce Allen
44 Englewood Circle
Sanford NC 27332

ENCLOSED GABLE END BUILDING

MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

Project No.
0125-0385

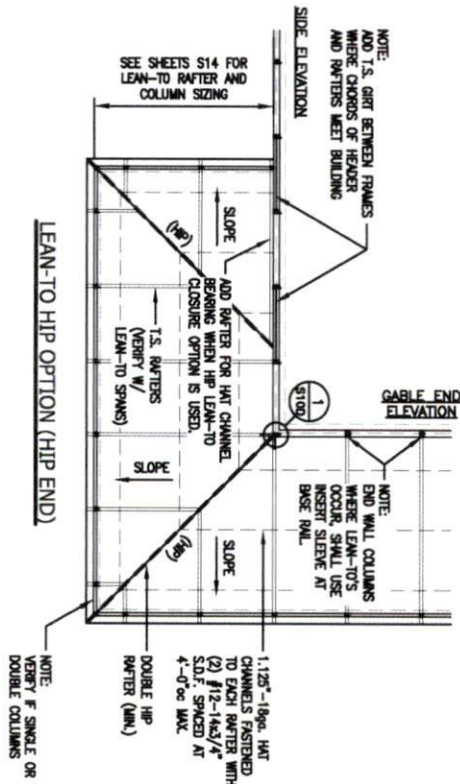
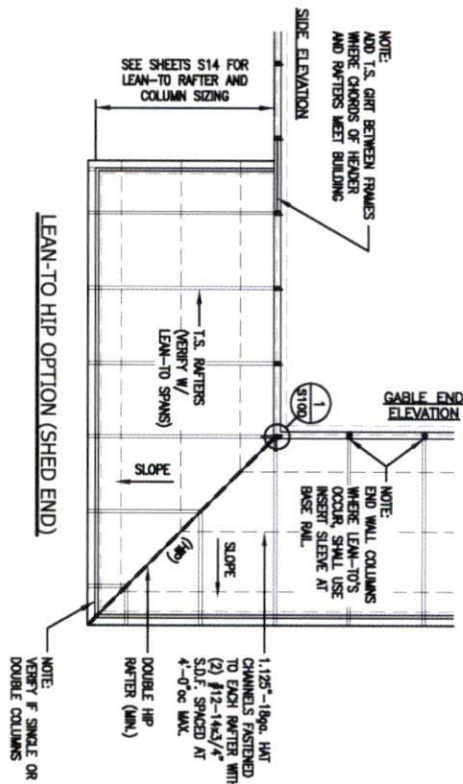
Sheet No.
S9

Date:
04/22/25

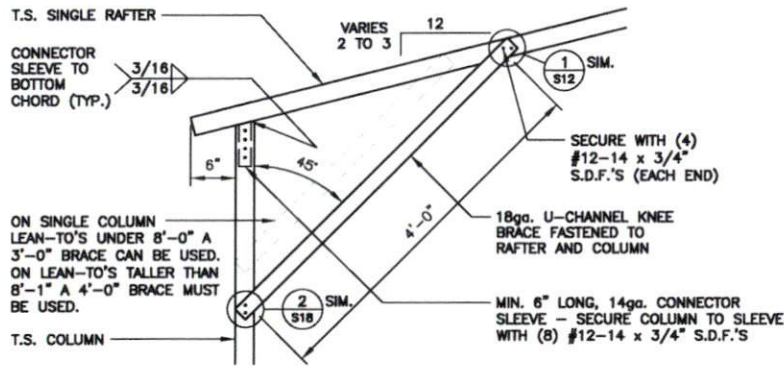
Revisions:



VI.8

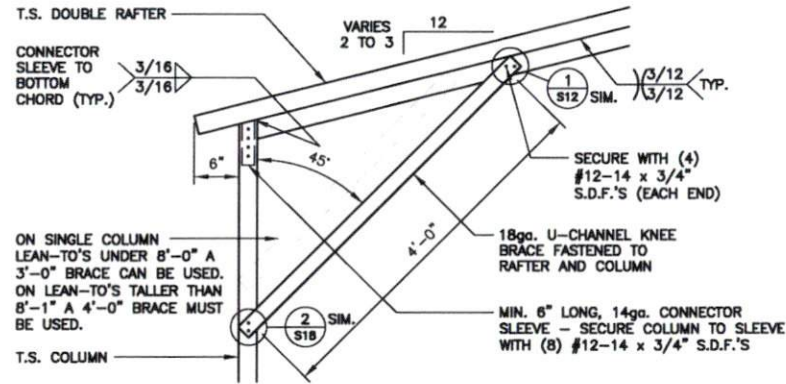


LEAN-TO FRAMING OPTIONS



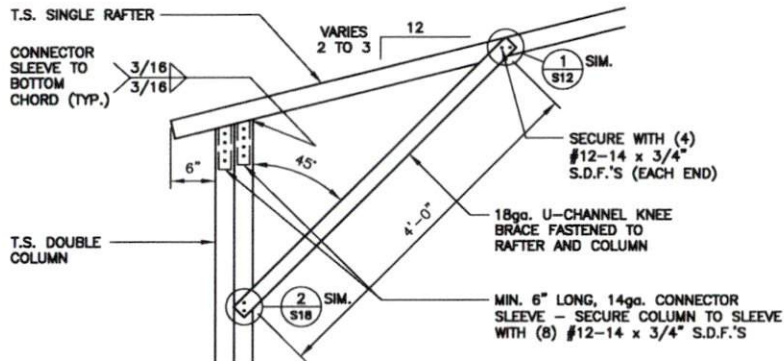
LEAN-TO SINGLE RAFTER / SINGLE COLUMN
CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



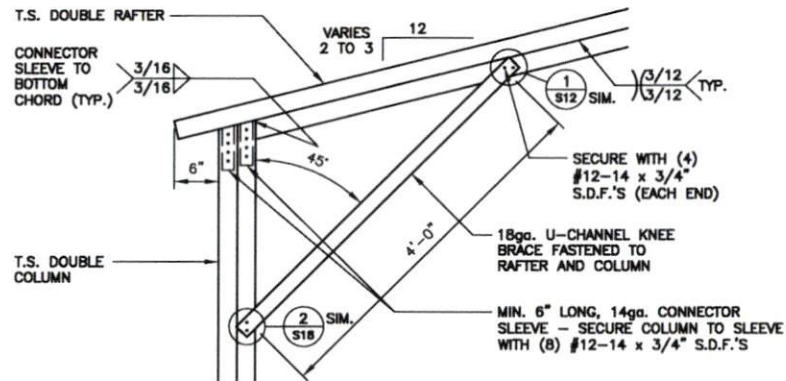
LEAN-TO DOUBLE RAFTER / SINGLE COLUMN
CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



LEAN-TO SINGLE RAFTER / DOUBLE COLUMN
CONNECTION DETAIL

SCALE: 3/4" = 1'-0"



LEAN-TO DOUBLE RAFTER / DOUBLE COLUMN
CONNECTION DETAIL

SCALE: 3/4" = 1'-0"

JCMT
ASSOCIATES, PLLC
211 Stone Drive
Pilot Mountain, NC 27041
336-399-6277

Joyce Allen
44 Englewood Circle
Sanford NC 27332

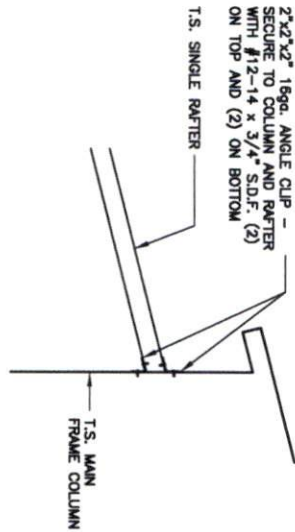
Project No.
0125-0385
Sheet No.
S10

ENCLOSED GABLE END BUILDING
MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME)
(UP TO) 14.5 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)

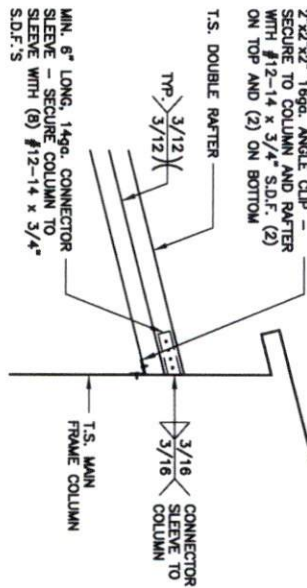
Date:
04/22/25
Revisions:

NORTH CAROLINA
PROFESSIONAL
SEAL
27874
ENGINEER
JASON M. REEF
04/23/2025
VLS

LEAN-TO FRAMING OPTIONS



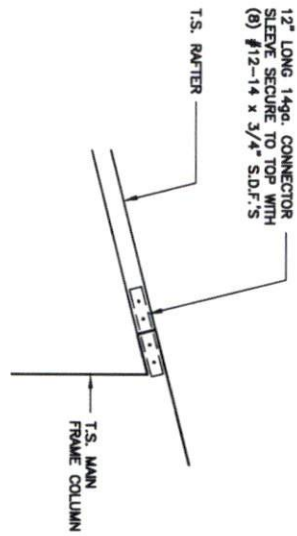
1
S10B
LEAN-TO SINGLE RAFTER / BUILDING FRAME
CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



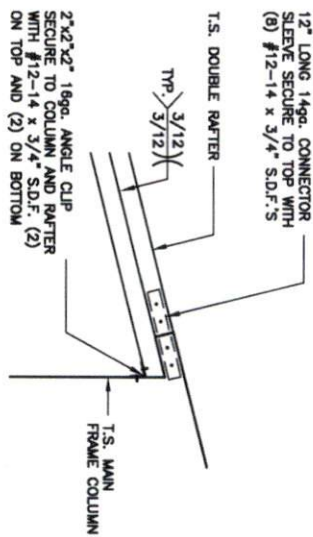
1A
S10B
LEAN-TO DOUBLE RAFTER / BUILDING FRAME
CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

	Joyce Allen 44 Englewood Circle Sanford NC 27332	JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385
	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)		Sheet No. S10B
Date: 04/22/25	Revisions: -		

LEAN-TO FRAMING OPTIONS



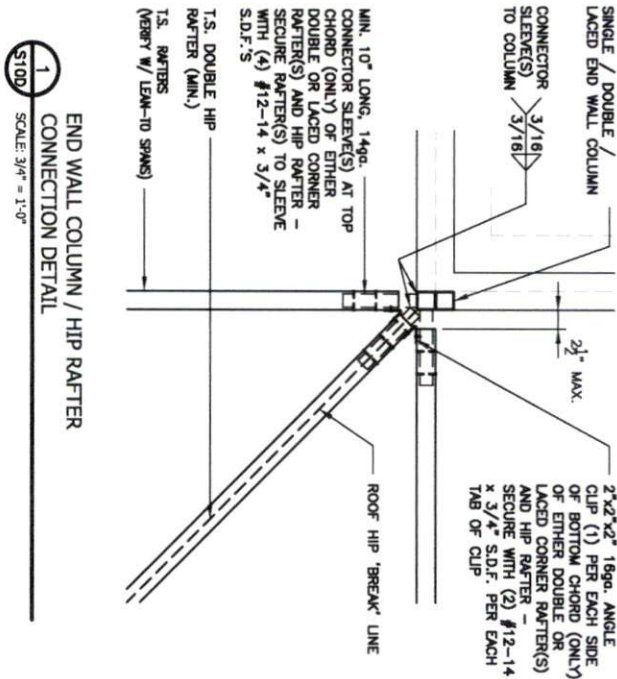
1
S10C
LEAN-TO SINGLE RAFTER / BUILDING FRAME
(FLUSH) CONNECTION DETAIL
SCALE: 3/4" = 1'-0"



1A
S10C
LEAN-TO SINGLE RAFTER / BUILDING FRAME
(FLUSH) CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

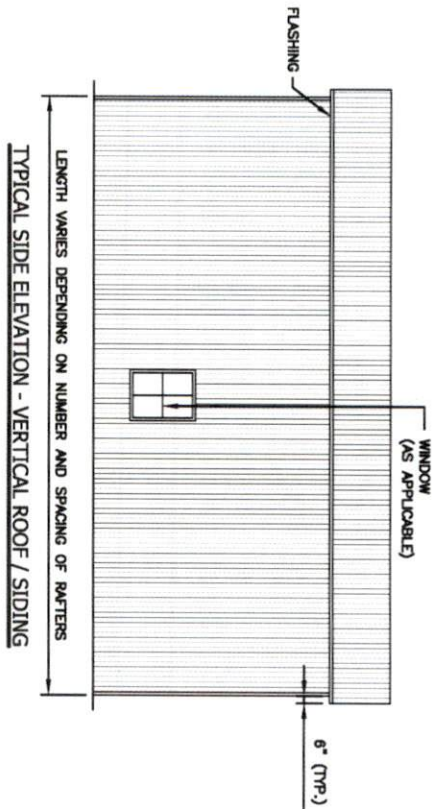
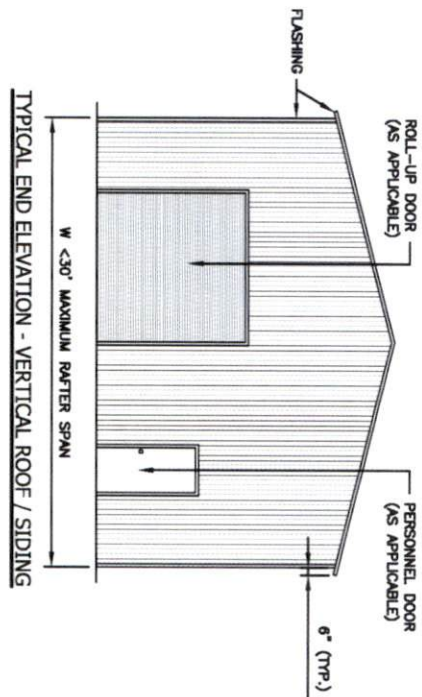
	Date: 04/22/25 Revisions: -	Joyce Allen 44 Englewood Circle Sanford NC 27332	JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385 Sheet No. S10C
ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)				

LEAN-TO FRAMING OPTIONS



	Date: 04/22/25 Revisions:		Joyce Allen 44 Englewood Circle Sanford NC 27332	JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385
	Date: 04/22/25 Revisions:			Project No. 0125-0385	
Date: 04/22/25 Revisions:			Project No. 0125-0385		Sheet No. S10D

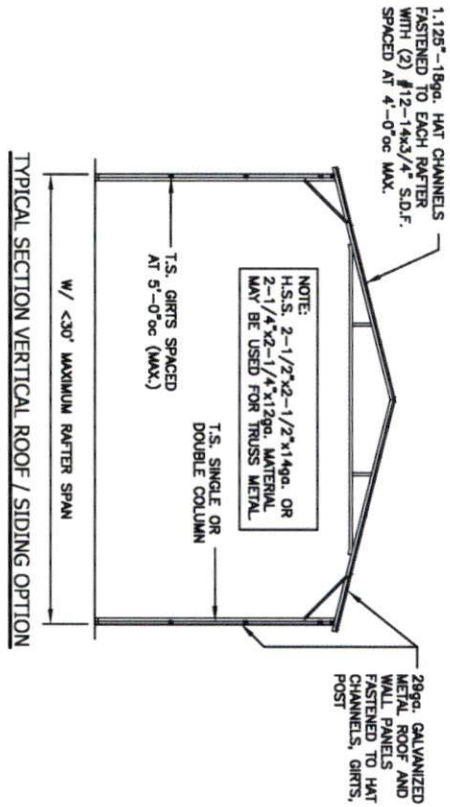
VERTICAL ROOF / SIDING OPTION



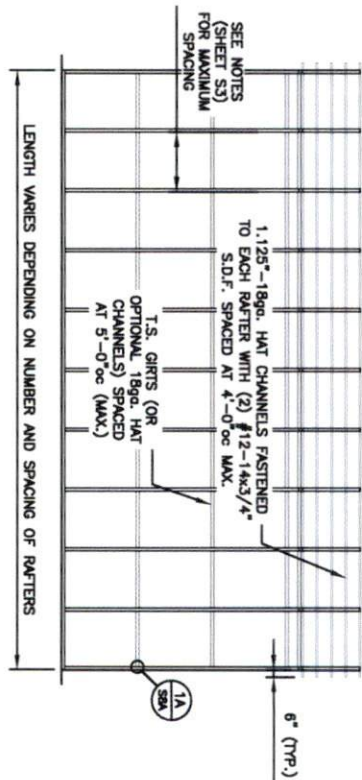
	Date: 04/22/25 Revisions: -	Joyce Allen 44 Englewood Circle Sanford NC 27332		JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385 Sheet No. S11
ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)					

VERTICAL ROOF / SIDING OPTION

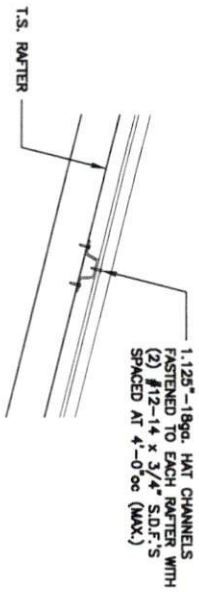
VERTICAL ROOF / SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF / SIDING OPTION



(TYPICAL) ROOF PANEL ATTACHMENT



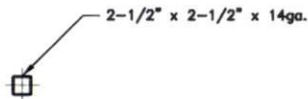
		Joyce Allen 44 Englewood Circle Sanford NC 27332		JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277		Project No. 0125-0385	
Date: 04/22/25		ENCLOSED GABLE END BUILDING				Sheet No. S11A	
Revisions:		MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)					

GENERAL NOTE:

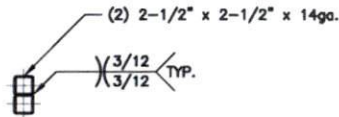
PROVIDE DOUBLE WYTHE HEADER ON DOUBLE COLUMNS.

HEADER OPTIONS

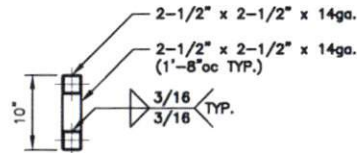
SIDE WALL HEADER OPTIONS



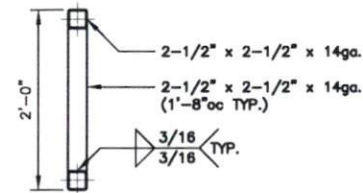
SINGLE T.S. HEADER DETAIL
FOR OPENINGS <4'-0"



DOUBLE T.S. HEADER DETAIL
FOR OPENINGS >4'-0" TO <12'-0"

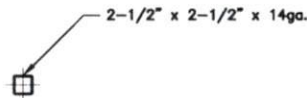


LACED T.S. HEADER DETAIL
FOR OPENINGS >12'-1" TO <15'-0"

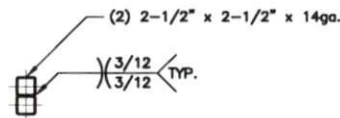


LACED T.S. HEADER DETAIL
FOR OPENINGS >15'-1" TO <20'-0"

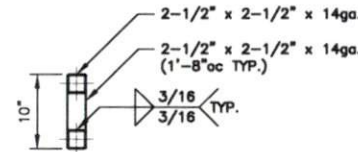
END WALL HEADER OPTIONS



SINGLE T.S. HEADER DETAIL
FOR OPENINGS <7'-0"

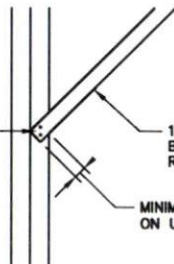


DOUBLE T.S. HEADER DETAIL
FOR OPENINGS >7'-1" TO <16'-0"



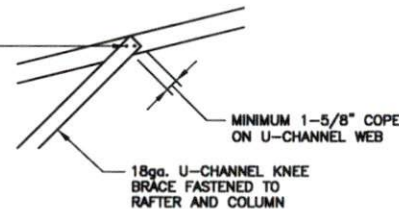
LACED T.S. HEADER DETAIL
FOR OPENINGS >16'-1" TO <20'-0"

SECURE WITH (4) W12-14x3/4" S.D.F.'S (EACH END) MINIMUM 11/16" SPACING FROM FASTENER TO FASTENER AND FROM FASTENER TO EDGE



1 U-CHANNEL TO COLUMN CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

SECURE WITH (4) W12-14x3/4" S.D.F.'S (EACH END) MINIMUM 11/16" SPACING FROM FASTENER TO FASTENER AND FROM FASTENER TO EDGE



2 U-CHANNEL TO TRUSS CONNECTION DETAIL
SCALE: 3/4" = 1'-0"

JCMT ASSOCIATES, PLLC 211 Stone Drive Pilot Mountain, NC 27041 336-399-6277	Project No. 0125-0385	Sheet No. S12
	ENCLOSED GABLE END BUILDING MAXIMUM >0' TO <30' WIDE x <16' MAXIMUM EAVE HEIGHT (BOX FRAME) (UP TO) 145 M.P.H. WIND ZONE - 35/43.5/47 P.S.F. SNOW LOAD(S)	
Joyce Allen 44 Englewood Circle Sanford NC 27332	Date: 04/22/25	Revisions: