

**(PARTIALLY) ENCLOSED GABLE END BUILDING**

**<24' WIDE X <16' EAVE HEIGHT WITH BOX FRAME / (UP TO) 140 M.P.H. WIND ZONE - 35 P.S.F. SNOW LOAD**

**FOR:**

Vickie Woods  
368 Loop Road  
Bunnlevel, NC 28323

**ISSUE DATE:** 09/04/2025



09/04/2025

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

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S7D	BASE RAIL ANCHORGE / DOUBLE COLUMN
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S15D	LEAN-TO / MAIN FRAME CONNECTION DETAILS
S15E	LEAN-TO / MAIN FRAME CONNECTION DETAILS
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09/04/2025

**JCMT**

ASSOCIATES, PLLC

PO BOX 27

Pilot Mountain, NC 28641

828-310-7160

V2.0

Vickie Woods  
368 Loop Road  
Bunnlevel, NC 28323

DRAWN BY:

BKS

PROJECT NO:

0425-0760

DATE:

09/04/25

SHEET NO:

**S2**

DESIGN LOADS:

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

DEAD LOADS      ROOF      13      P.S.F.  
                          ROOF COLLATERAL      0      P.S.F.

LIVE LOADS      ROOF      20      P.S.F.

GROUND SNOW LOAD:      10      P.S.F. \* DRIFT LOAD HAS NOT BEEN CALCULATED

WIND LOAD:      BASIC WIND SPEED      115      M.P.H. ASCE 7-10  
                                  EXPOSURE CATAGORY      C

SEISMIC DESIGN CATAGORY      ☐ A      ☒ B      ☐ C      ☐ D

PROVIDE THE FOLLOWING SEISMIC DESIGN PARAMETERS:

OCCUPANCY CATEGORY      I

SPECTRAL RESPONSE ACCELERATION      Ss 13.7 %g      S1 6.7 %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      ☒ EQUIVALANT 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 60"oc UNLESS NOTED OTHERWISE.
2. MAX. END-WALL COLUMN SPACING SHALL BE 60"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 9"oc UNLESS NOTED OTHERWISE.
5. 1,500 P.S.F. ASSUMED BEARING CAPACITY UNLESS NOTED OTHERWISE.



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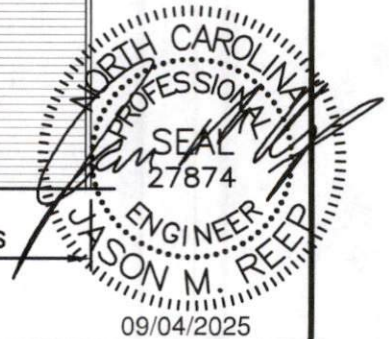
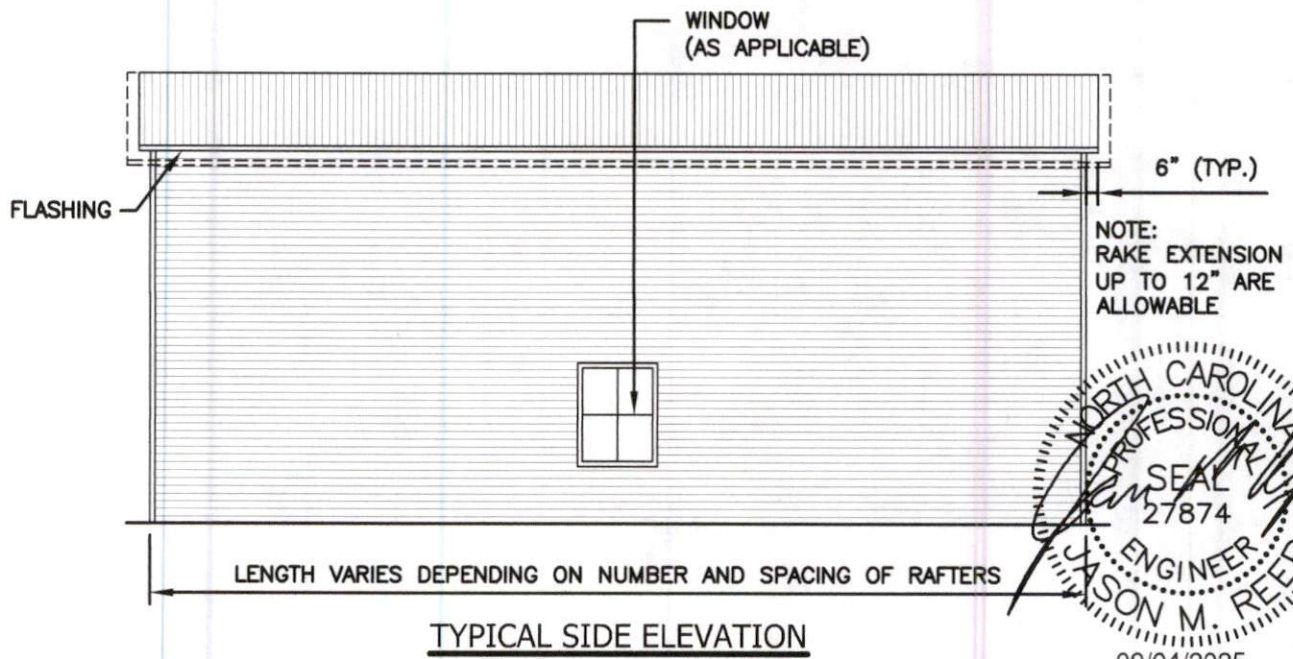
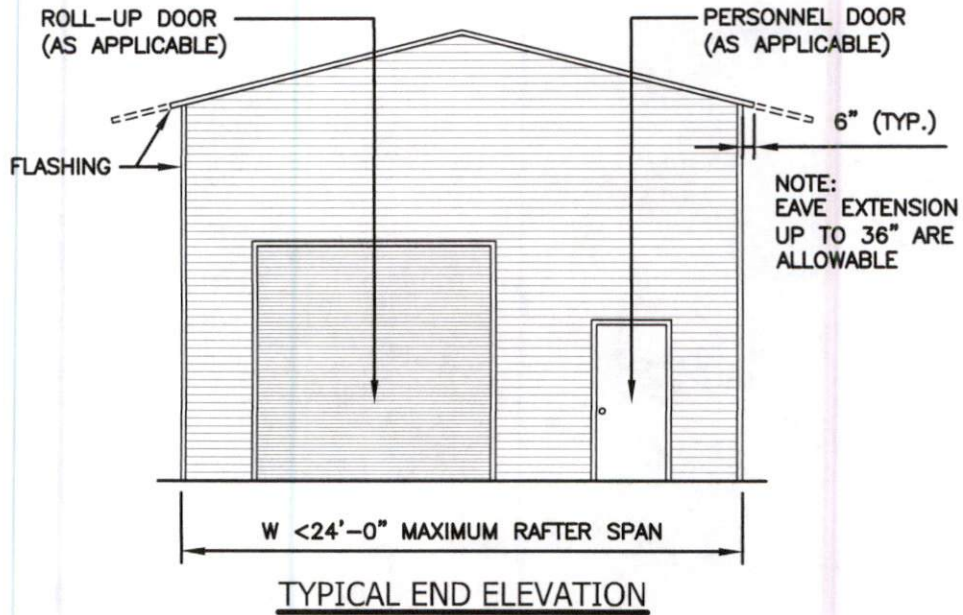
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**S3**

## BOX EVE FRAME RAFTER STURCTURE



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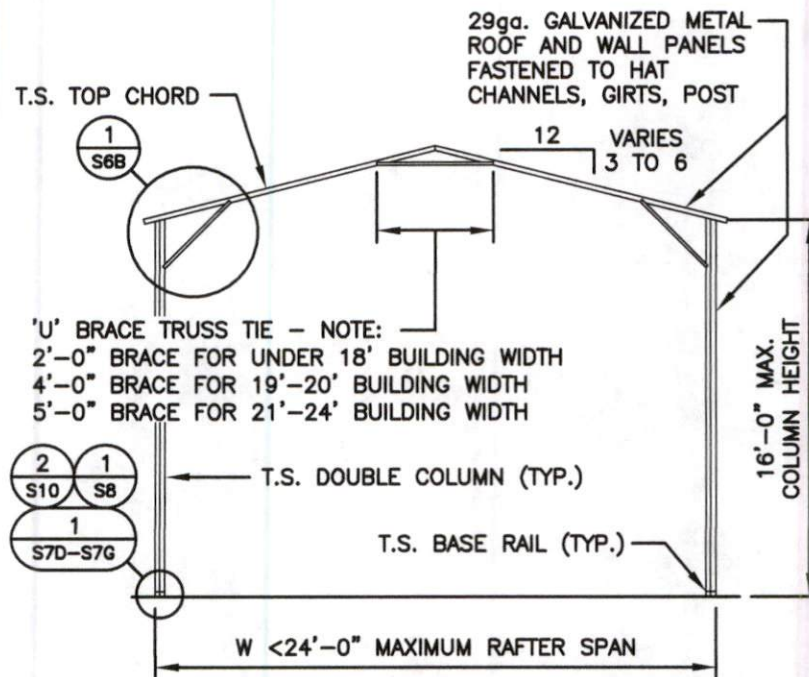
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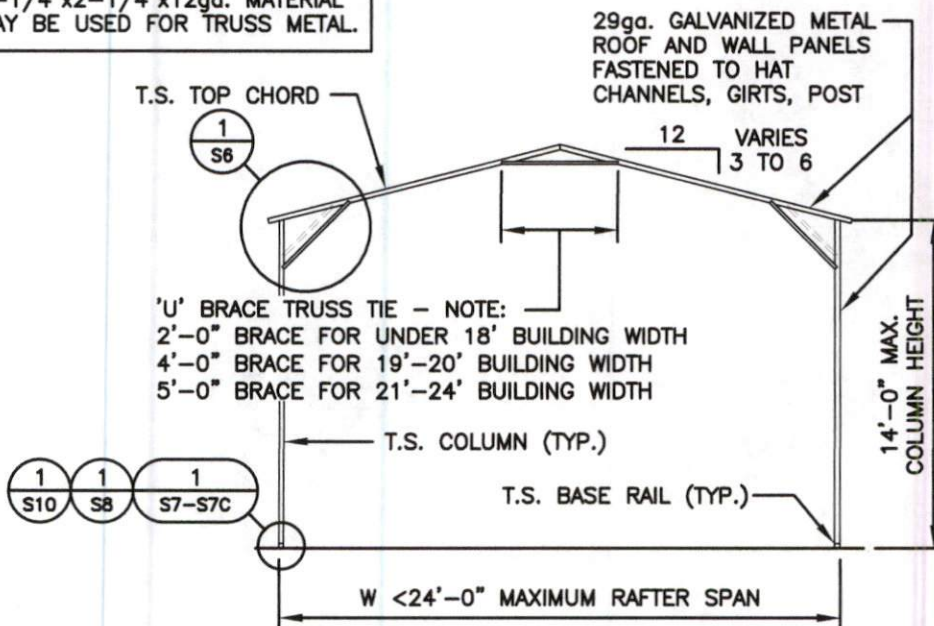
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**S4**

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



TYPICAL RAFTER / COLUMN FRAME SECTION

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.



TYPICAL RAFTER / COLUMN FRAME SECTION



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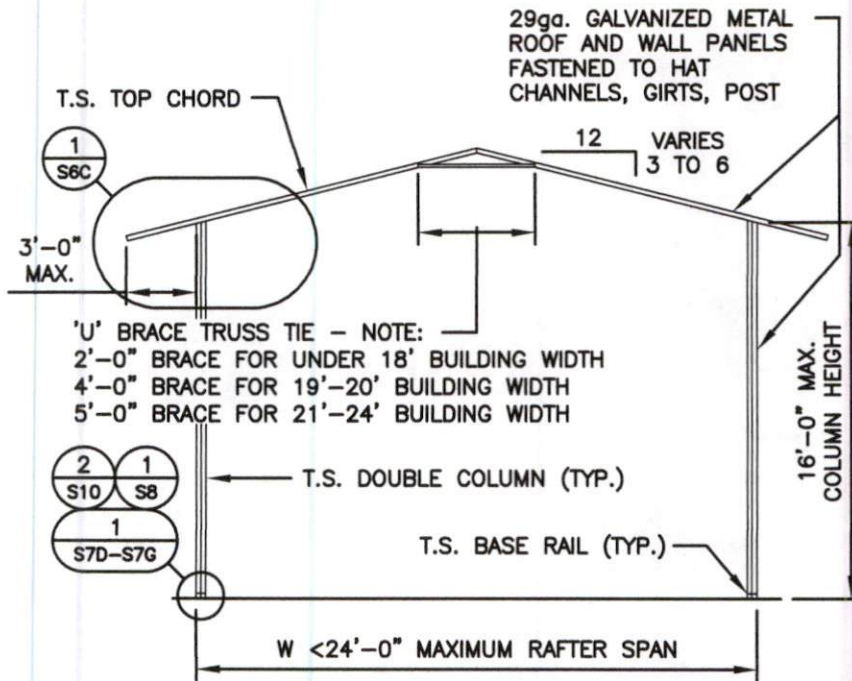
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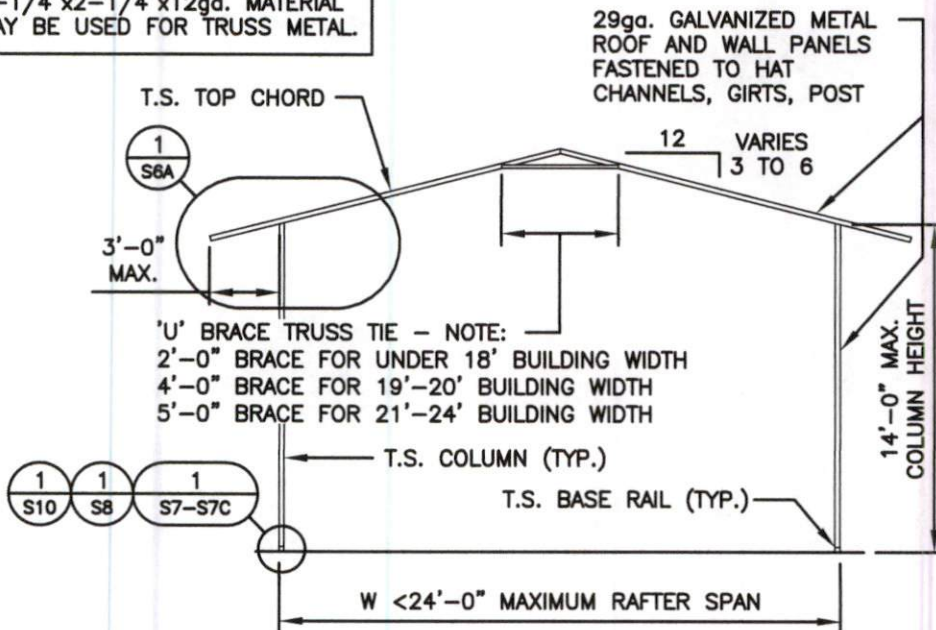
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(<24' WIDE / <16' HIGH) BOX EVE RAFTER END WALL SECTIONS (3' SOFFIT)

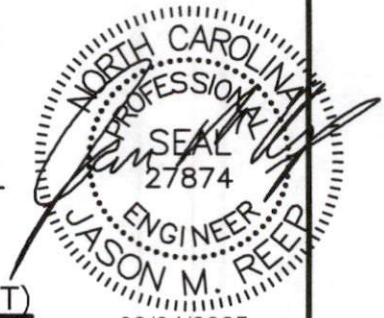


TYPICAL RAFTER / COLUMN FRAME SECTION (3' SOFFIT)

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.



TYPICAL RAFTER / COLUMN FRAME SECTION (3' SOFFIT)



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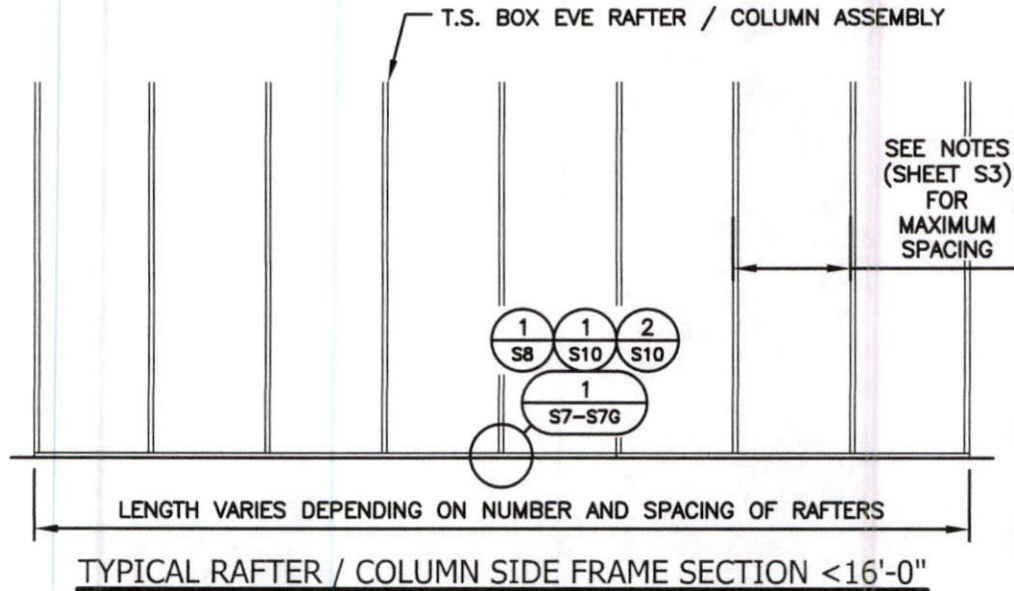
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**S5A**

(TYPICAL) SIDE FRAME SECTION

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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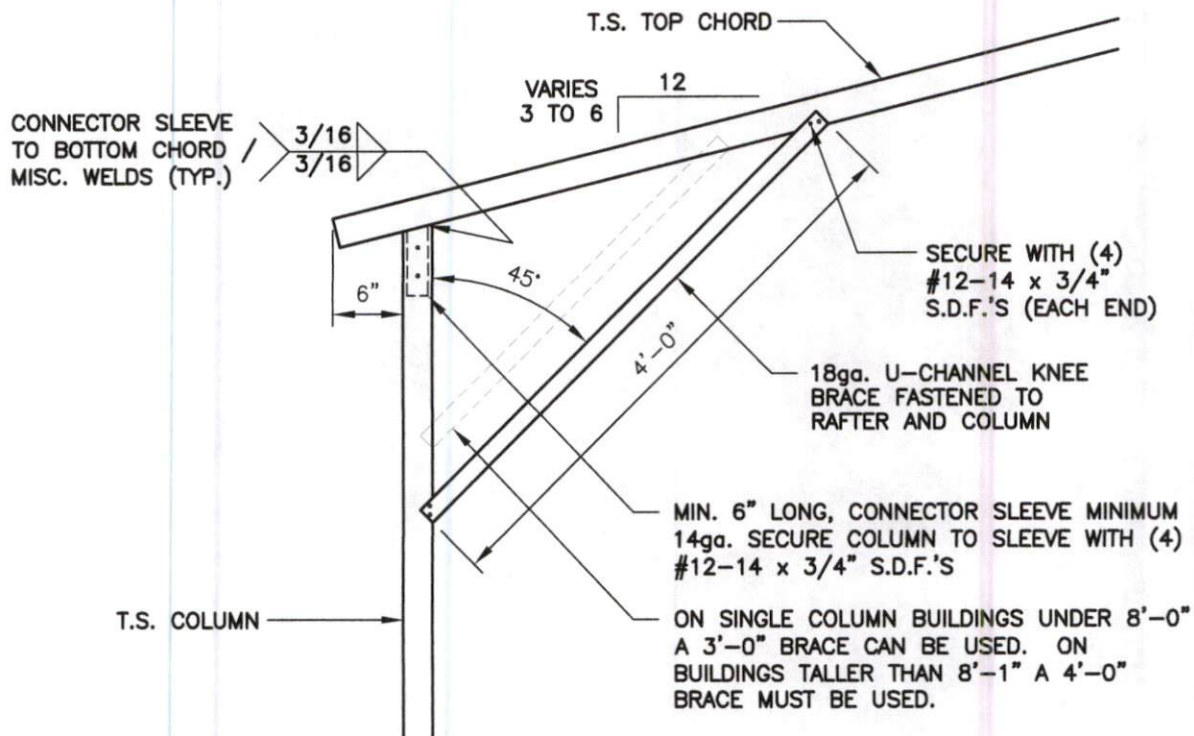
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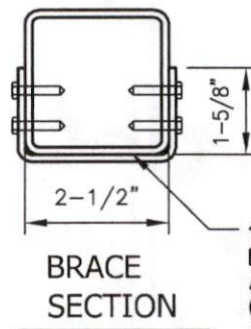
SHEET NO:

**S58**



1 BOX EAVE / COLUMN CONNECTION DETAIL FOR HEIGHTS <14'-0"

S6 SCALE: 3/4" = 1'-0"



18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH (4) #12-14 x 3/4" S.D.F.'S AT EACH END (8 PER BRACE)



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DATE:  
09/04/25

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**S6**

SECURE EAVE EXTENSION  
SLEEVE WITH #12-14 x 3/4"  
S.D.F.'S @ 8"oc

CONNECTOR SLEEVE  
TO BOTTOM CHORD /  
MISC. WELDS (TYP.)

VARIES  
3 TO 6

MIN. 12ga.  
EXTENSION  
SLEEVE (INSIDE  
RAFTER TAIL)

T.S. COLUMN

T.S. TOP CHORD

SECURE WITH (4)  
#12-14 x 3/4"  
S.D.F.'S (EACH END)

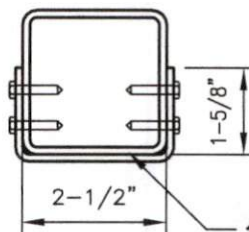
18ga. U-CHANNEL KNEE  
BRACE FASTENED TO  
RAFTER AND COLUMN

MIN. 6" LONG, CONNECTOR SLEEVE MINIMUM  
14ga. SECURE COLUMN TO SLEEVE WITH (4)  
#12-14 x 3/4" S.D.F.'S

ON SINGLE COLUMN BUILDINGS UNDER 8'-0"  
A 3'-0" BRACE CAN BE USED. ON  
BUILDINGS TALLER THAN 8'-1" A 4'-0"  
BRACE MUST BE USED.

1 BOX EAVE / COLUMN CONNECTION DETAIL FOR HEIGHTS <14'-0" (3' SOFFIT)

S6A SCALE: 3/4" = 1'-0"



BRACE  
SECTION

18ga. U-CHANNEL BRACE  
FASTENED TO THE COLUMN  
AND BOTTOM CHORD, WITH  
(4) #12-14 x 3/4" S.D.F.'S  
AT EACH END (8 PER BRACE)



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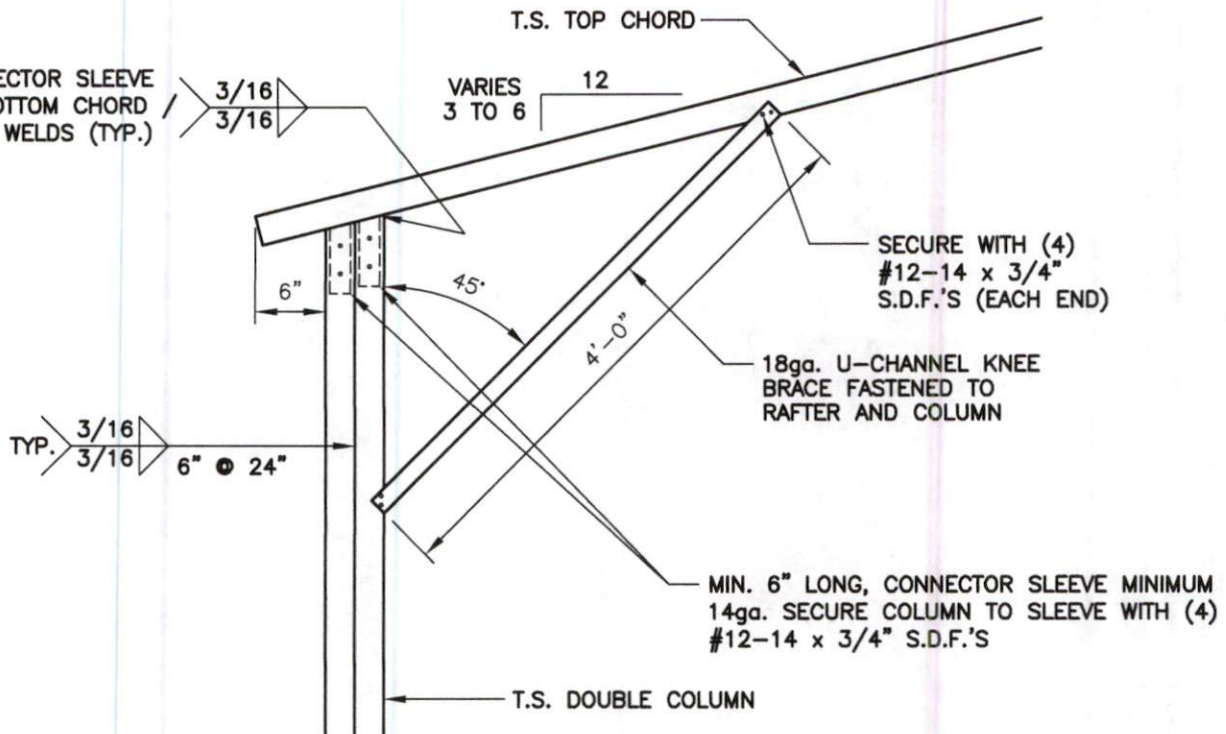
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**S6A**

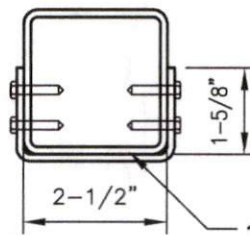
CONNECTOR SLEEVE  
TO BOTTOM CHORD  
MISC. WELDS (TYP.)



1 BOX EAVE / COLUMN CONNECTION DETAIL FOR HEIGHTS >14'-1" TO <16'-0"

S6B

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



BRACE  
SECTION

18ga. U-CHANNEL BRACE  
FASTENED TO THE COLUMN  
AND BOTTOM CHORD, WITH  
(4) #12-14 x 3/4" S.D.F.'S  
AT EACH END (8 PER BRACE)



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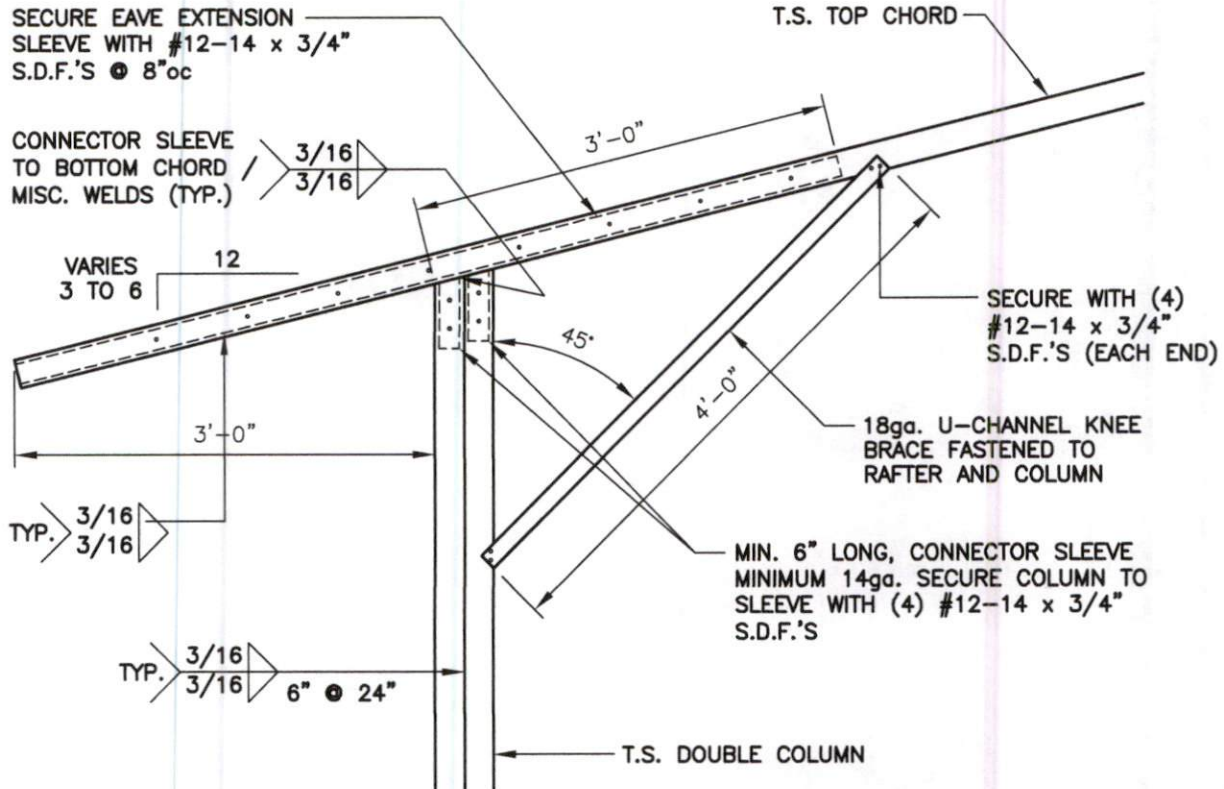
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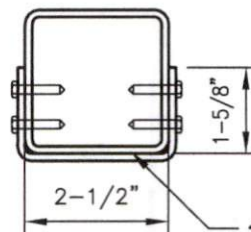
**S6B**



BOX EAVE / COLUMN CONNECTION DETAIL  
FOR HEIGHTS >14'-1" TO <16'-0" (3' SOFFIT)

1  
S6C

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



BRACE  
SECTION

18ga. U-CHANNEL BRACE FASTENED TO THE COLUMN AND BOTTOM CHORD, WITH (4) #12-14 x 3/4" S.D.F.'S AT EACH END (8 PER BRACE)



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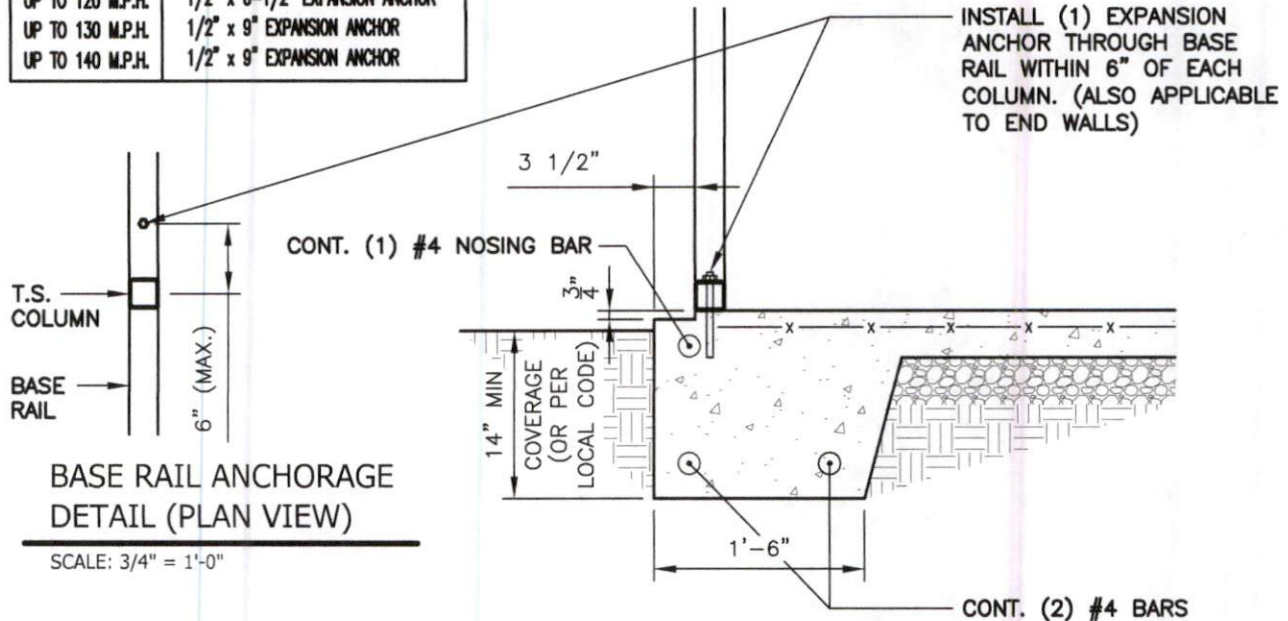
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SHEET NO:  
**S6C**

## CONCRETE BASE RAIL ANCHORAGE

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL

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

#### GENERAL NOTES:

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 BARS SHALL BE PER ACI-318:  
3" 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 TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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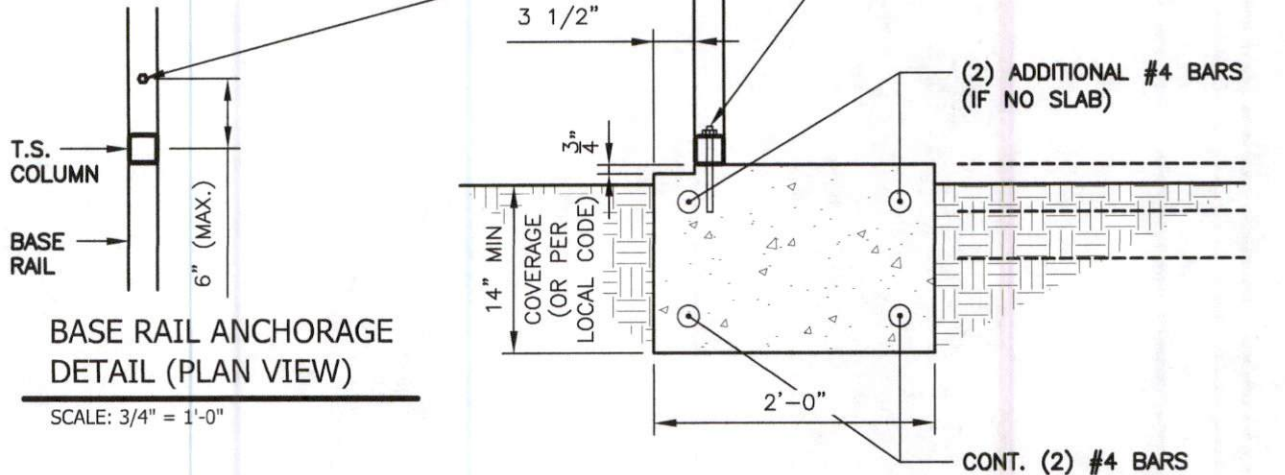
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0425-0760

DATE:  
09/04/25

SHEET NO:  
**S7**

## CONCRETE BASE RAIL ANCHORAGE (NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL (NO SLAB)

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

#### GENERAL NOTES:

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 BARS SHALL BE PER ACI-318: 3" 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 TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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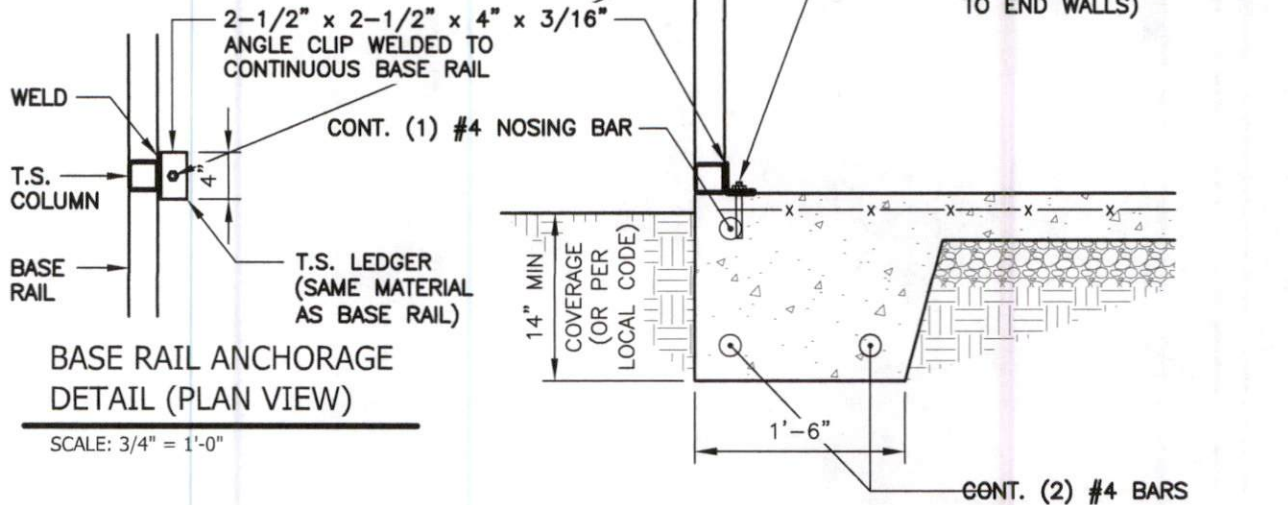
PROJECT NO:  
0425-0760

DATE:  
09/04/25

SHEET NO:  
**S7A**

# CONCRETE BASE RAIL ANCHORAGE (NO LEDGE)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



BASE RAIL ANCHORAGE  
DETAIL (PLAN VIEW)

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



BASE RAIL ANCHORAGE DETAIL

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

## GENERAL NOTES:

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:

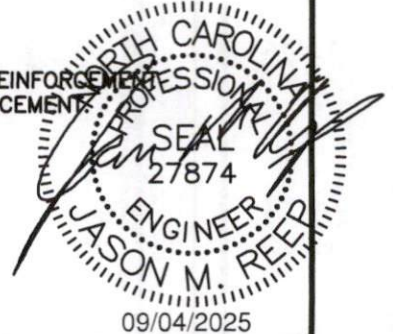
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:  
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE  
EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

## REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT  
SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT  
LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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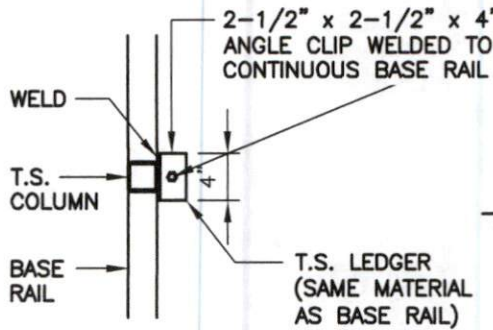
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SHEET NO:  
**S7B**

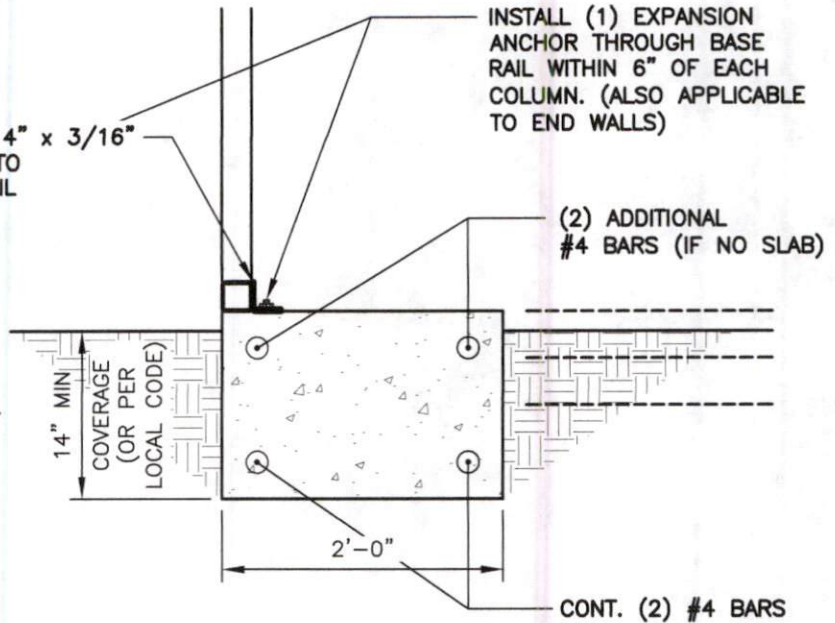
## CONCRETE BASE RAIL ANCHORAGE (NO LEDGE / NO SLAB)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



**BASE RAIL ANCHORAGE  
DETAIL (PLAN VIEW)**

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



**BASE RAIL ANCHORAGE DETAIL (NO SLAB)**

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

### GENERAL NOTES:

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:

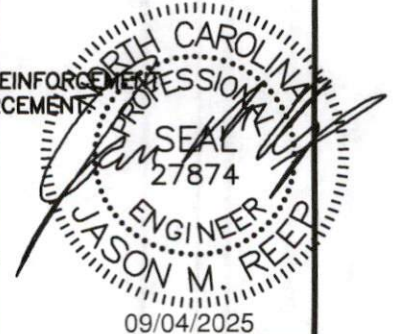
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318:  
3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE  
EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT  
SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT  
LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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V2.0

Vickie Woods  
368 Loop Road  
Bunnlevel, NC 28323

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BKS

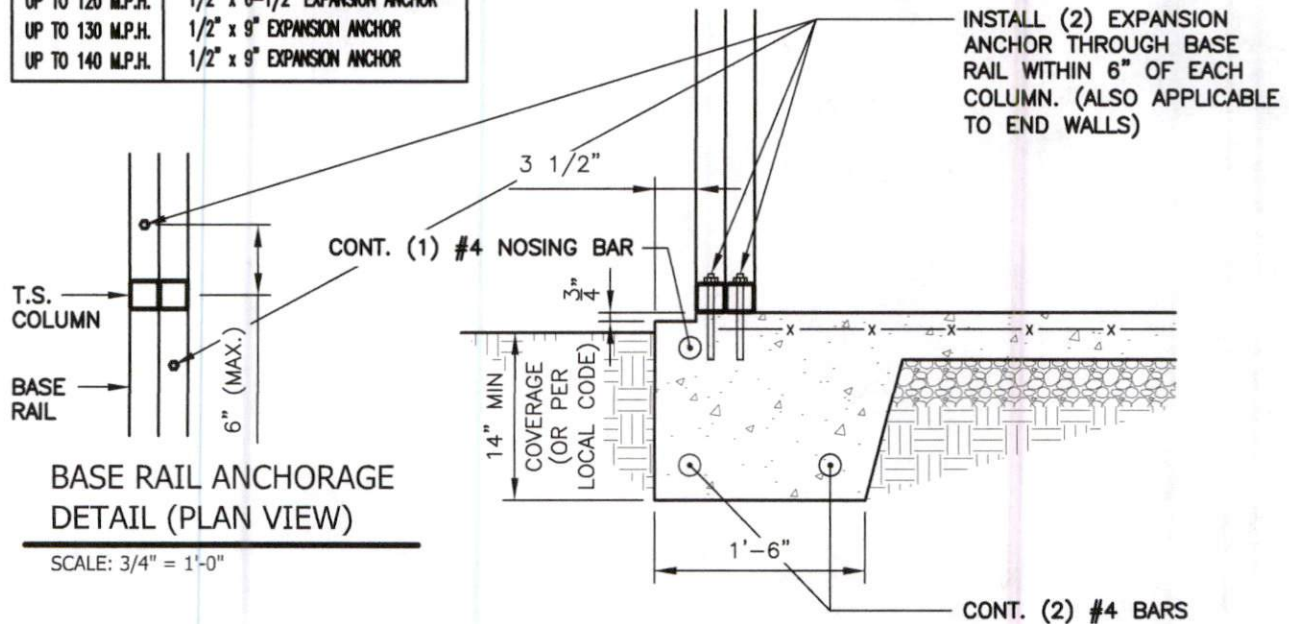
PROJECT NO:  
0425-0760

DATE:  
09/04/25

SHEET NO:  
**S7C**

## CONCRETE BASE RAIL ANCHORAGE (LEAN-TO)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### BASE RAIL ANCHORAGE DETAIL

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

#### GENERAL NOTES:

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:

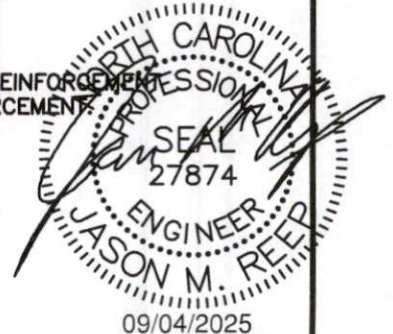
FOR FOUNDATIONS, MINIMUM CONCRETE COVER OVER REINFORCING BARS SHALL BE PER ACI-318: 3" IN FOUNDATIONS WHERE THE CONCRETE IS CAST AGAINST AND PERMANENTLY IN CONTACT WITH THE EARTH OR EXPOSED TO THE EARTH AND WEATHER AND 1-1/2" ELSEWHERE.

#### REINFORCING STEEL:

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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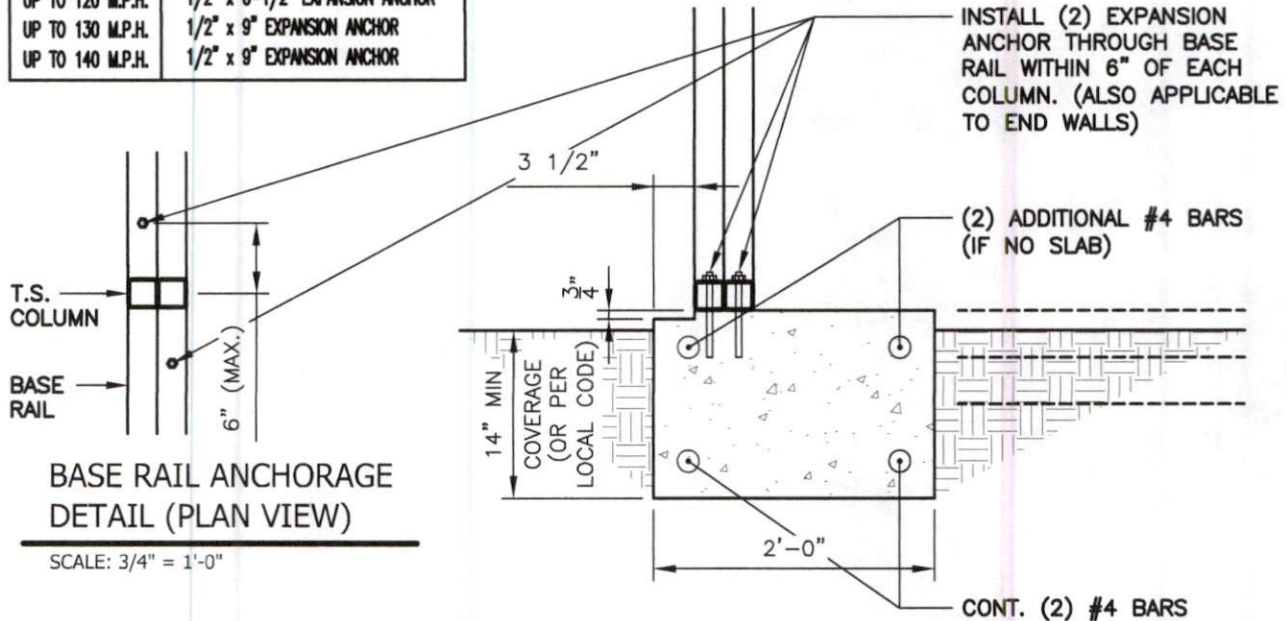
PROJECT NO:  
0425-0760

DATE:  
09/04/25

SHEET NO:  
**S7D**

## CONCRETE BASE RAIL ANCHORAGE (NO SLAB - LEAN-TO)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



### 1 BASE RAIL ANCHORAGE DETAIL (NO SLAB)

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

#### GENERAL NOTES:

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 BARS SHALL BE PER ACI-318: 3" 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 TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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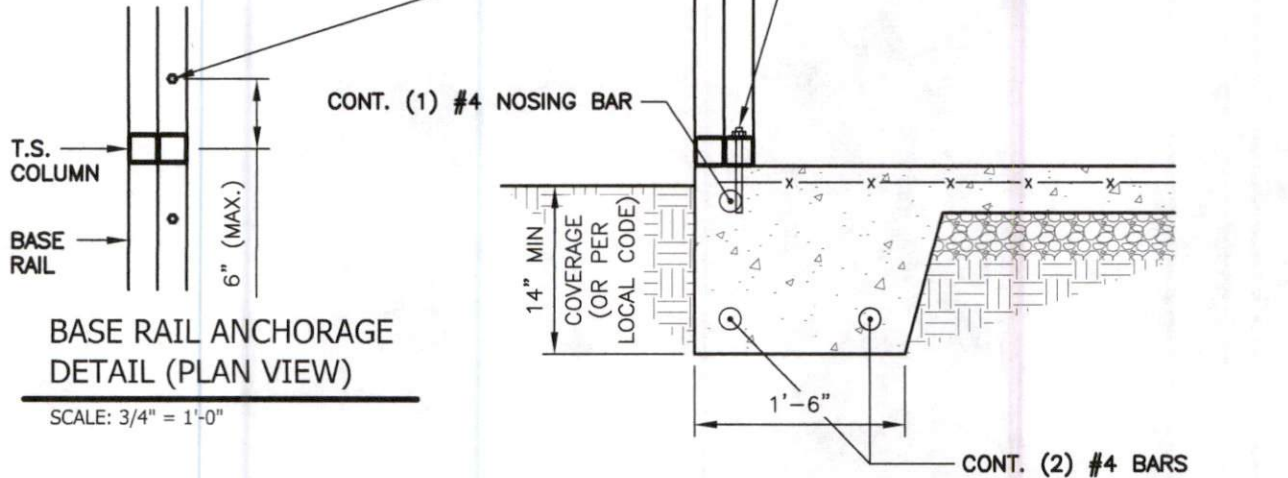
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DATE:  
09/04/25

SHEET NO:  
**S7E**

## CONCRETE BASE RAIL ANCHORAGE (NO EDGE - LEAN-TO)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



1  
S7F
**BASE RAIL ANCHORAGE DETAIL**  
 SCALE: 3/4" = 1'-0"

### GENERAL NOTES:

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 BARS SHALL BE PER ACI-318: 3" 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:

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1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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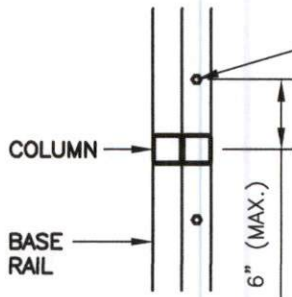
PROJECT NO:  
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SHEET NO:  
**S7F**

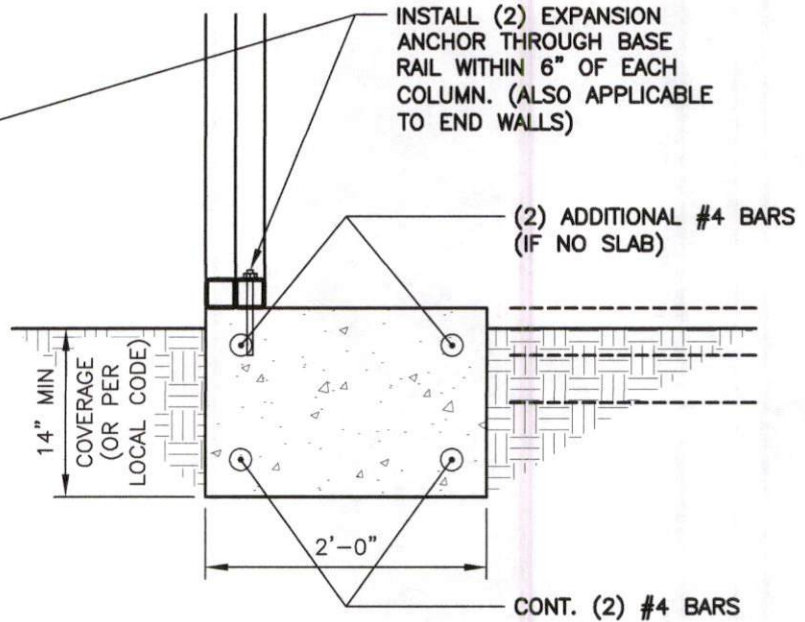
# CONCRETE BASE RAIL ANCHORAGE (NO EDGE / NO SLAB - LEAN-TO)

ANCHORAGE BOLT SCHEDULE	
WIND SPEED	BOLT SIZE
UP TO 110 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 120 M.P.H.	1/2" x 6-1/2" EXPANSION ANCHOR
UP TO 130 M.P.H.	1/2" x 9" EXPANSION ANCHOR
UP TO 140 M.P.H.	1/2" x 9" EXPANSION ANCHOR



**BASE RAIL ANCHORAGE  
DETAIL (PLAN VIEW)**

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



**1 BASE RAIL ANCHORAGE DETAIL**  
 S7H SCALE: 3/4" = 1'-0"

**GENERAL NOTES:**

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:**

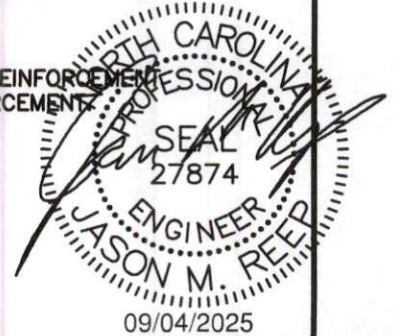
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**REINFORCING STEEL:**

THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAT BE BENT IN THE SHOP OF THE FIELD PROVIDED:

1. REINFORCEMENT IS BENT COLD.
2. THE DIAMETER OF THE BEND, MEASURED ON THE INSIDE OF THE BAR, IS NOT LESS THAN SIX-BAR DIAMETERS.
3. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT.



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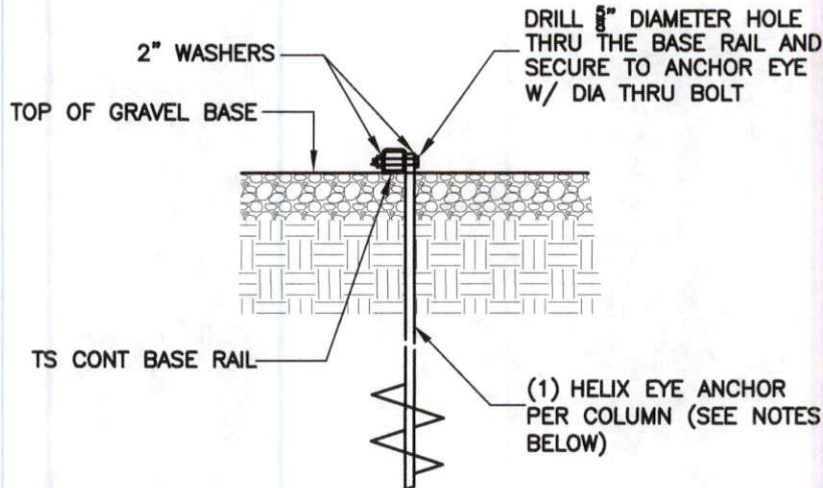
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 0425-0760

DATE:  
 09/04/25

SHEET NO:  
**S7G**

## SOIL NAIL BASE RAIL ANCHORAGE



### BASE RAIL ANCHORAGE DETAIL

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

#### HELIX EMBEDMENT INFORMATION:

FOR VERY DENSE OR CEMETED 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 20'-0"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 20'-0"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 20'-0"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) 4" HELICES WITH MINIMUM 50" EMBEDMENT - ONE EACH END BASE RAIL AND 20'-0"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 20'-0"oc MAX. WITH #4 REBAR AT 5'-0"oc BETWEEN.



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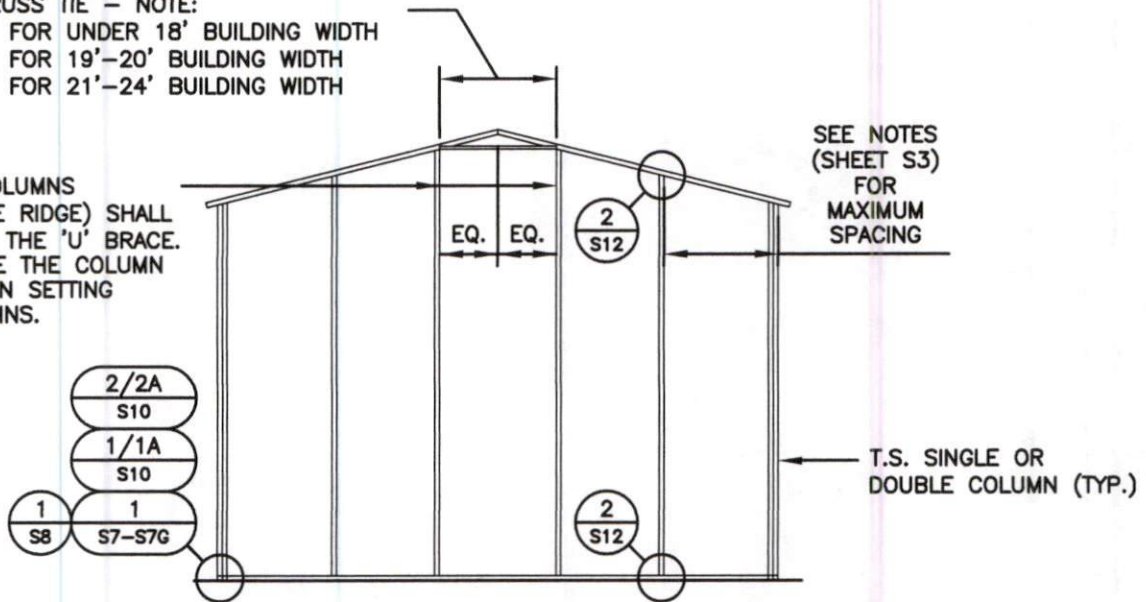
SHEET NO:

S8

## (>16'-1) BOX EVE RAFTER / END WALL FRAMING AND OPENINGS

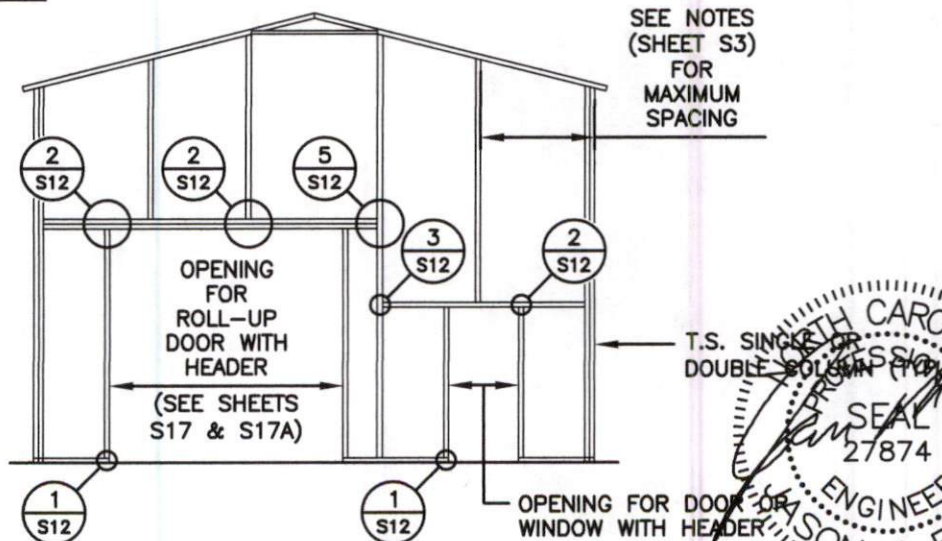
'U' BRACE TRUSS TIE - NOTE:  
 2'-0" BRACE FOR UNDER 18' BUILDING WIDTH  
 4'-0" BRACE FOR 19'-20' BUILDING WIDTH  
 5'-0" BRACE FOR 21'-24' BUILDING WIDTH

NOTE:  
 END WALL COLUMNS  
 (NEAREST THE RIDGE) SHALL  
 NOT END ON THE 'U' BRACE.  
 EVENLY DIVIDE THE COLUMN  
 SPACING WHEN SETTING  
 THESE COLUMNS.



TYPICAL BOX EVE RAFTER / END WALL COLUMN FRAME SECTION

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



TYPICAL BOX EVE RAFTER END WALL OPENINGS FRAMING SECTION

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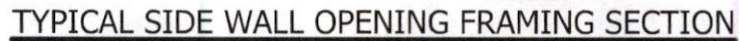
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PROJECT NO:  
 0425-0760

DATE:  
 09/04/25

SHEET NO:  
**S9**

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



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



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V2.C)

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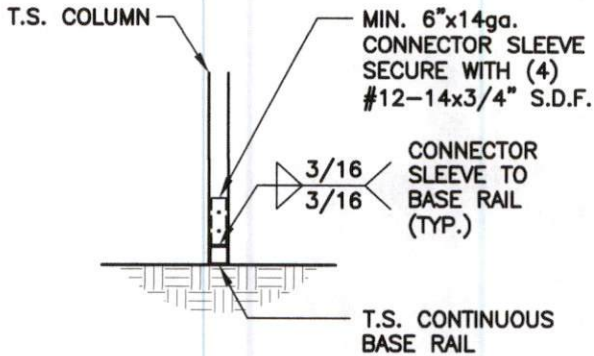
DRAWN BY:  
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PROJECT NO:  
0425-0760

**DATE:**  
09/04/25

SHEET NO:  
**S9A**

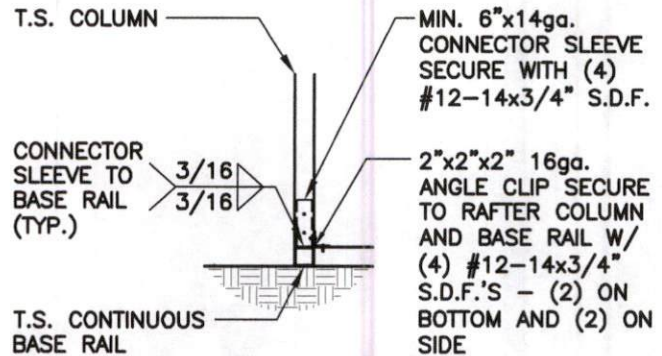
## BASE RAIL CONNECTION DETAILS



COLUMN / BASE RAIL  
CONNECTION DETAIL

1  
S10

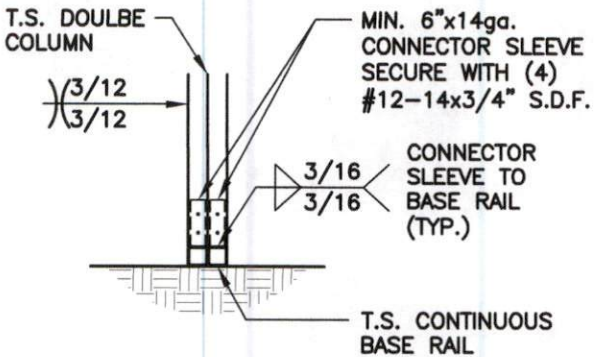
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END COLUMN / BASE RAIL  
CONNECTION DETAIL

1A  
S10

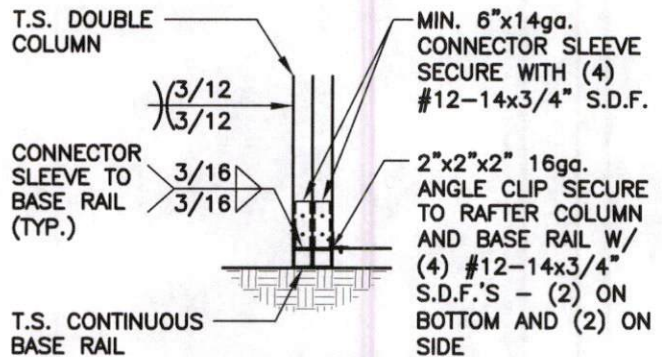
SCALE: 1/2" = 1'-0"



COLUMN / BASE RAIL  
CONNECTION DETAIL

2  
S10

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



END COLUMN / BASE RAIL  
CONNECTION DETAIL

2A  
S10

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



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