STRUCTURAL DESIGN
PARTIALLY OPEN (UTILITY) BUILDING

MAXIMUM 30'-0" WIDE X 20'-0" EAVE HEIGHT-
BOX EAVE FRAME AND BOW FRAME

11 December 2020
Revision 9
M&A Project No.
16062S/16155S/16207S/17155S/17200S/18068S/18156S/18290S/20019S/20324S

Prepared for:

Steel Buildings and Structures, Inc.
P.O. Box 1287
Mt. Airy, NC 27030

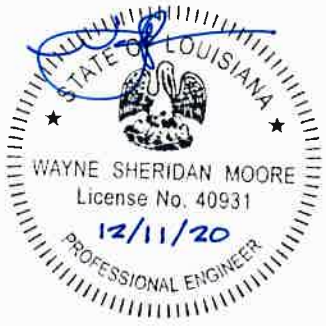
Prepared by:

Moore and Associates Engineering and Consulting, Inc.

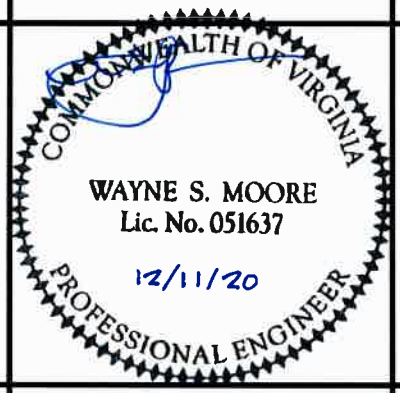
1009 East Avenue
North Augusta, SC 29841

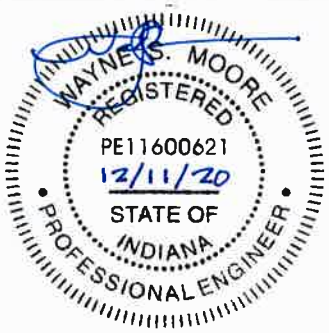
401 S. Main St., Suite 200
Mt. Airy, NC 27030

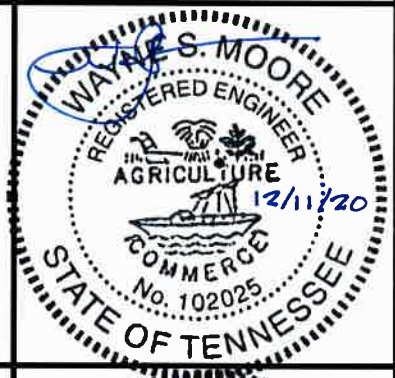
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING

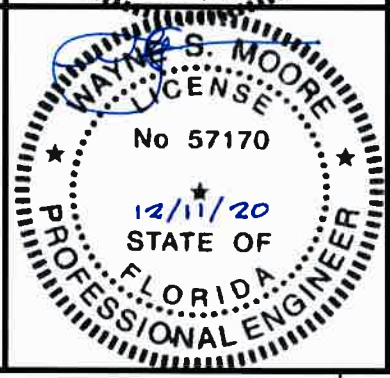


I HAVE RESEARCHED THIS CHAPTER AND THE LOUISIANA STATE UNIFORM CONSTRUCTION CODE AND TO THE BEST OF MY KNOWLEDGE AND BELIEF, THESE DRAWINGS ARE IN COMPLIANCE THEREWITH. I TAKE FULL RESPONSIBILITY FOR THE CONTENTS OF THESE PLANS.





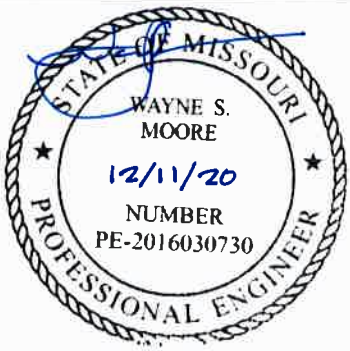




MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" UTILITY STRUCTURE		
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
CLIENT: SBSI	SHT. 1	DWG. NO: SK-2	REV.: 9

Professional Certification.
I hereby certify that these documents were prepared or approved by me, and that I am a duly licensed professional engineer under the laws of the State of Maryland, License No. 49744, Expiration Date 6/6/22



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	CLIENT: SBSI	SHT. 1A	DWG. NO: SK-2	REV.: 9

DRAWING INDEX

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" UTILITY STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 2 | DWG. NO: SK-2 | REV.: 9

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT UTILITY STRUCTURES.
2. DESIGN WAS DONE IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC) 7TH EDITION, 2018 NORTH CAROLINA BUILDING CODE, 2006 INTERNATIONAL BUILDING CODE (IBC), 2009 IBC, 2012 IBC, 2015 IBC AND 2018 IBC.
3. DESIGN LOADS ARE AS FOLLOWS:
   - A) DEAD LOAD = 1.5 PSF
   - B) LIVE LOAD = 12 PSF
   - C) GROUND SNOW LOAD = 30 PSF ($\leq$ 26'-0"), 35 PSF (26'-0" < W $\leq$ 30'-0")
     NOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED).
4. 3-SECOND GUST ULTIMATE WIND SPEED (V_{ULT}) = 105 TO 145 MPH (NOMINAL WIND SPEED = 82 TO 112 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET (UNLESS NOTED OTHERWISE).
6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. RISK CATEGORY I.
8. WIND EXPOSURE CATEGORY B.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR HAT CHANNELS, AND COLUMNS (INTERIOR OR END) = 8 INCHES.
11. FASTENERS CONSIST OF 1/4"x3/4" SELF-DRILLING FASTENER (SDF), USE CONTROL SEAL WASHER WITH EXTERIOR FASTENERS. SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH) OR LESS SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
12. GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN.
13. STANDARD GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36" LONG AND MAY BE USED IN SUITABLE SOILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AS NOTED.
14. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
    SOIL SITE CLASS = D
    RISK CATEGORY I
    R= 3.25 I_E= 1.0
    S_{DS}= 2.039 g V= C_SW
    S_{D1}= 1.258 g
15. WINDOW AND DOOR DESIGN PRESSURES ARE APPLICABLE TO THE STATE OF FLORIDA ONLY.

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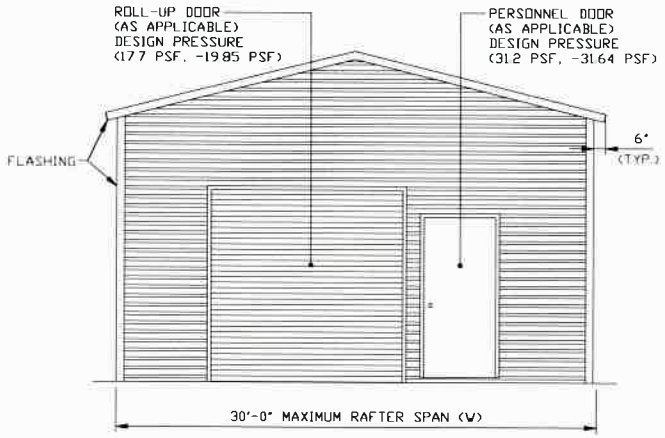
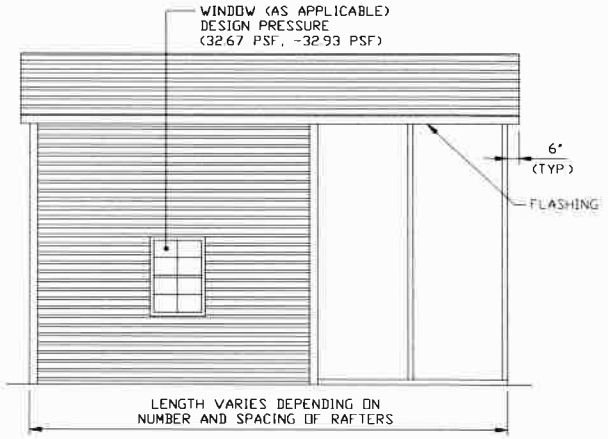
BOX EAVE FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION

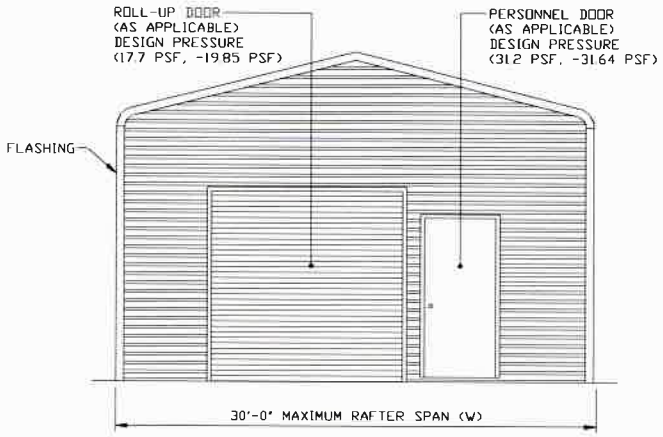
SCALE: NTS



TYPICAL SIDE ELEVATION

SCALE: NTS

BOW EAVE FRAME RAFTER STRUCTURE



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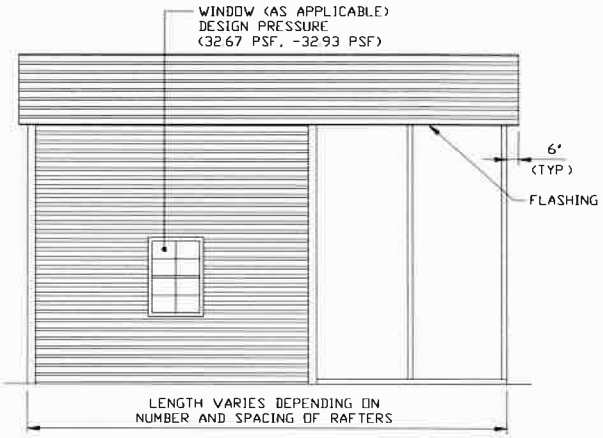

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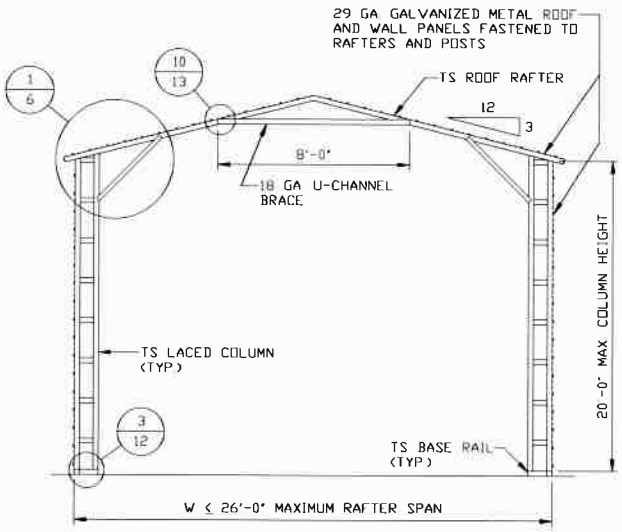

TYPICAL RAFTER/COLUMN FRAME SECTION

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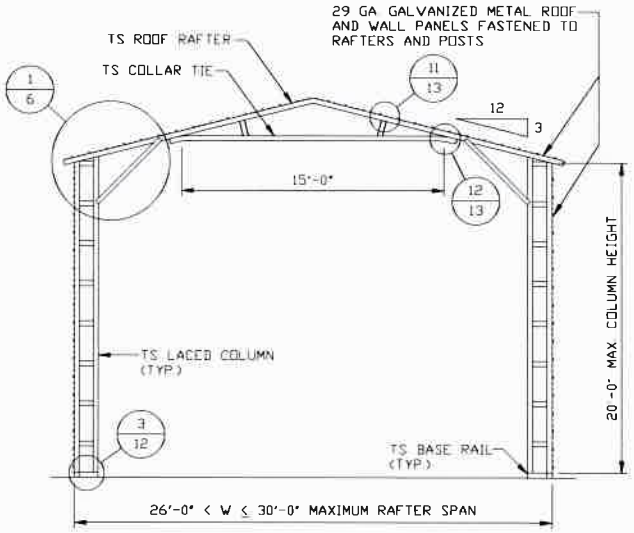

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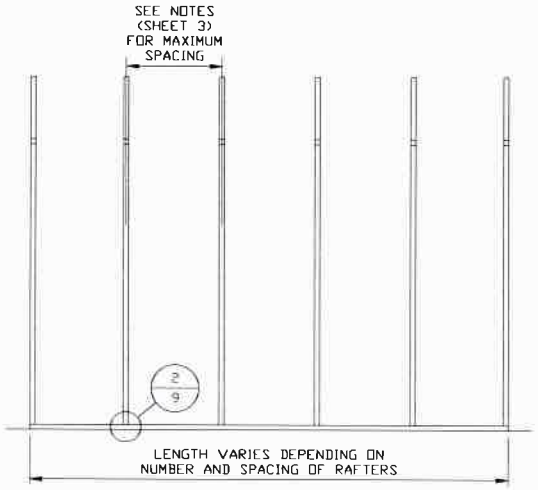

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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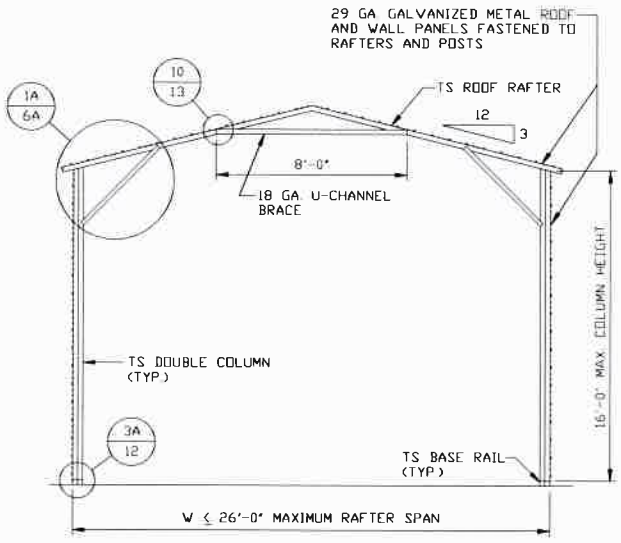

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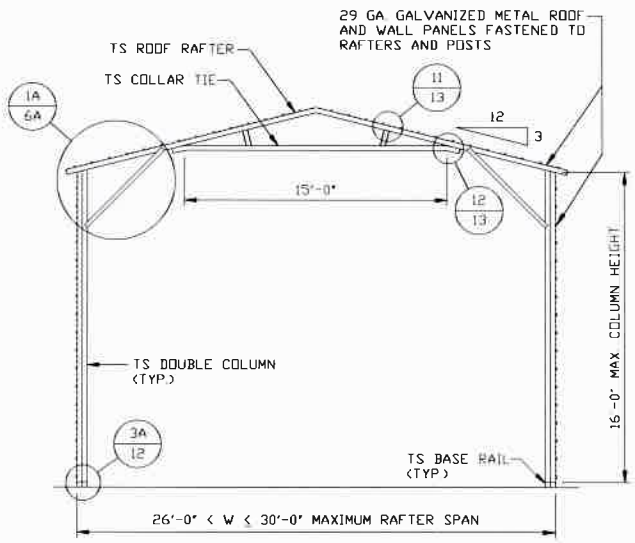

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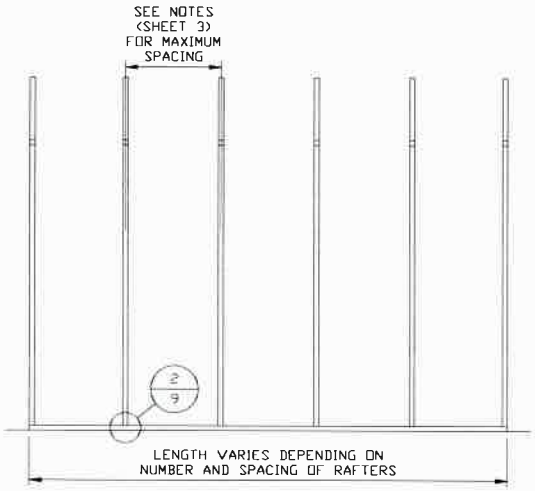

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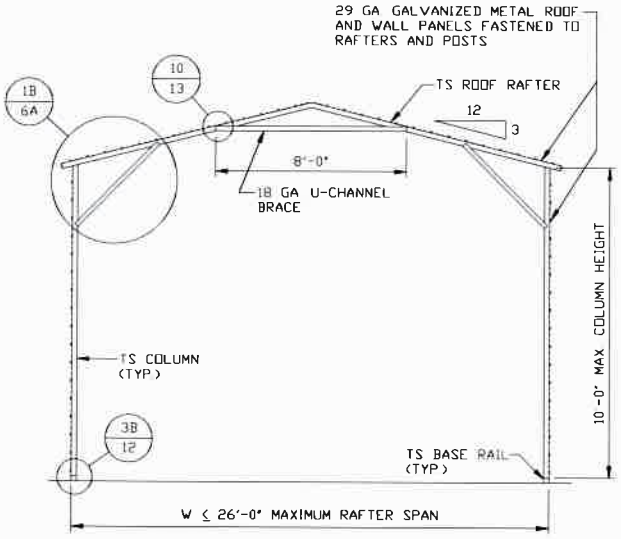

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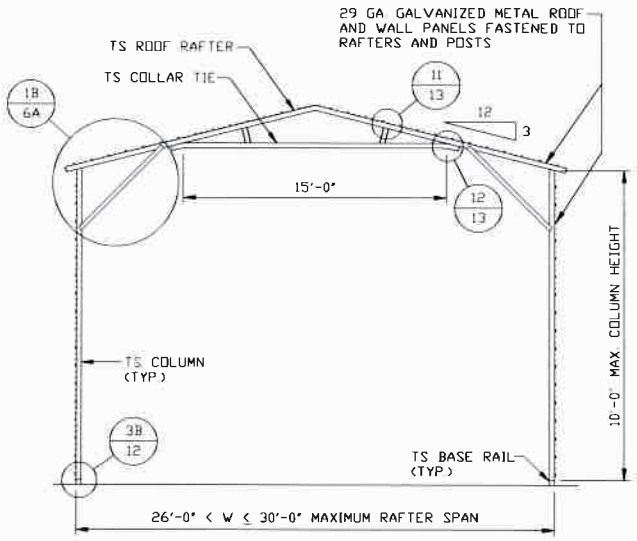

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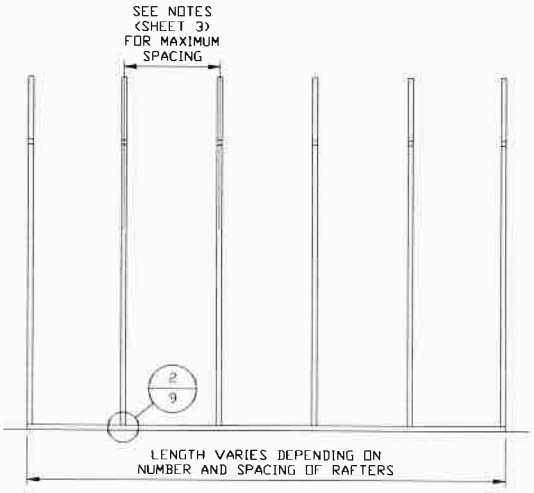

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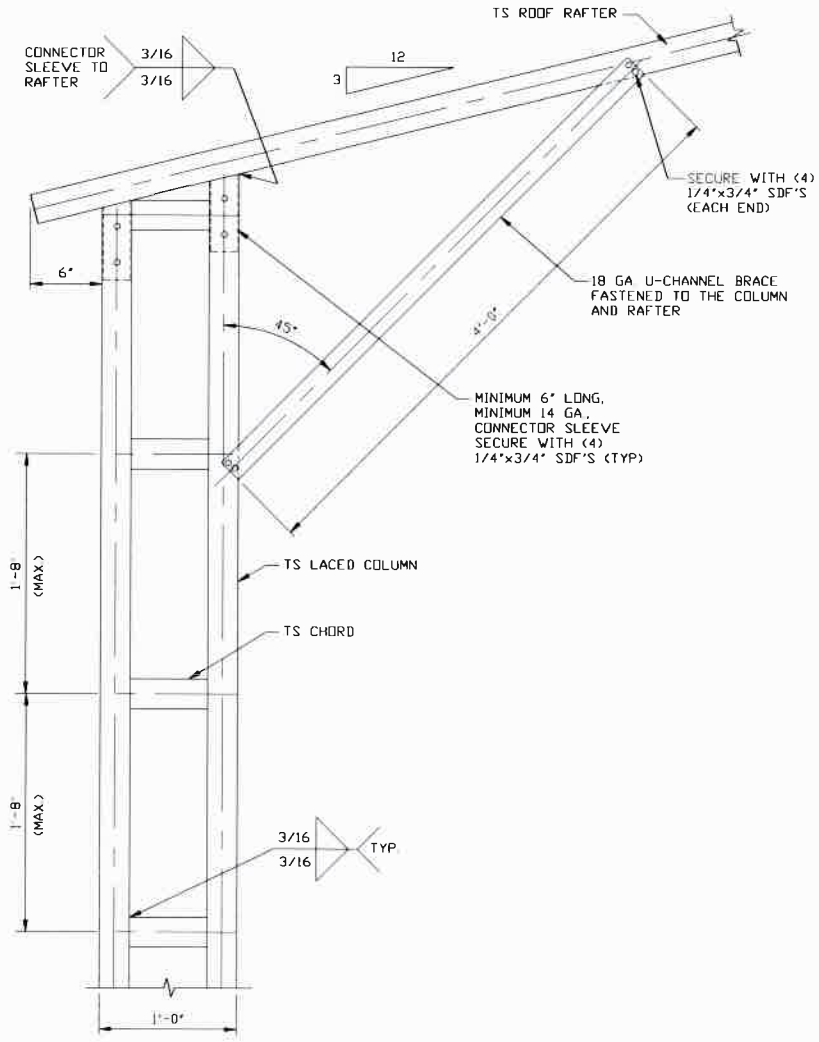

BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL
FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

1

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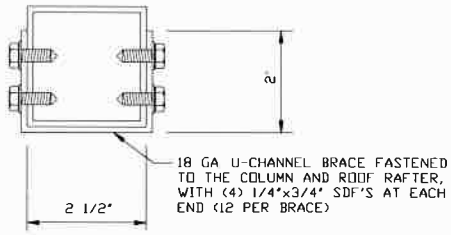

BRACE SECTION

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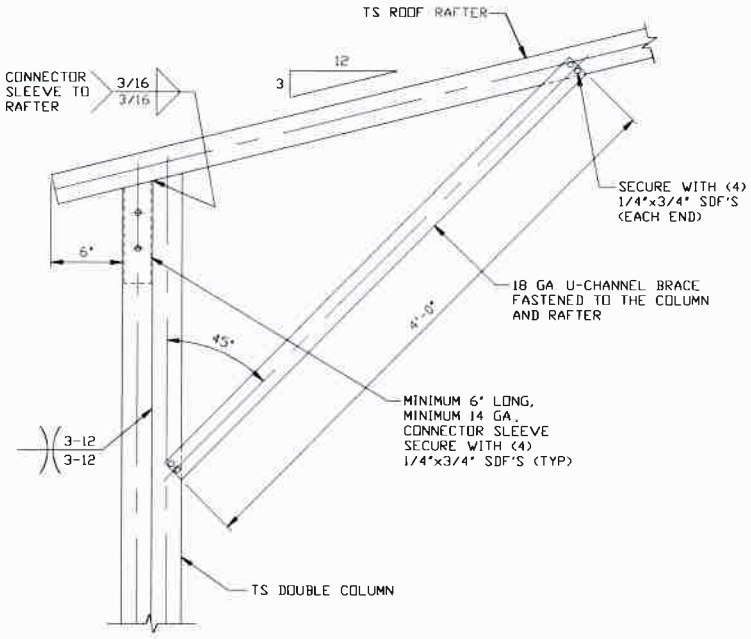

1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 16'-0"

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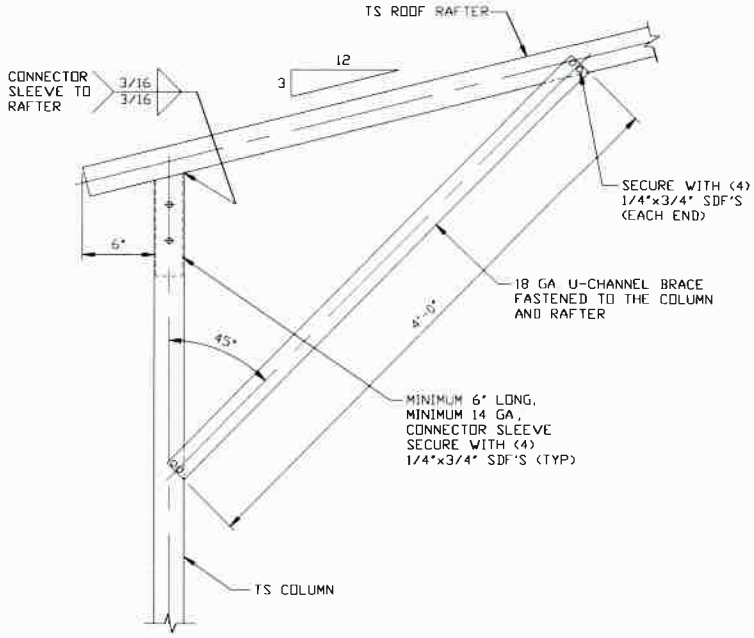

1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

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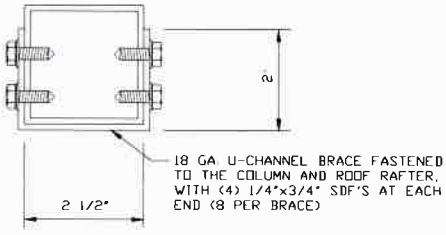

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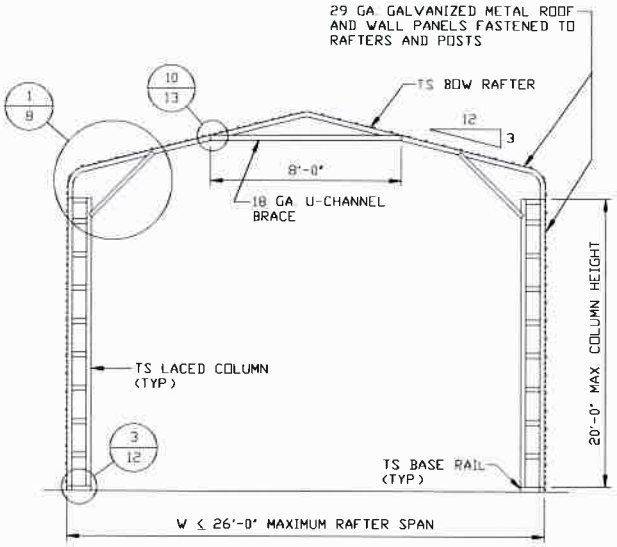

TYPICAL RAFTER/COLUMN FRAME SECTION

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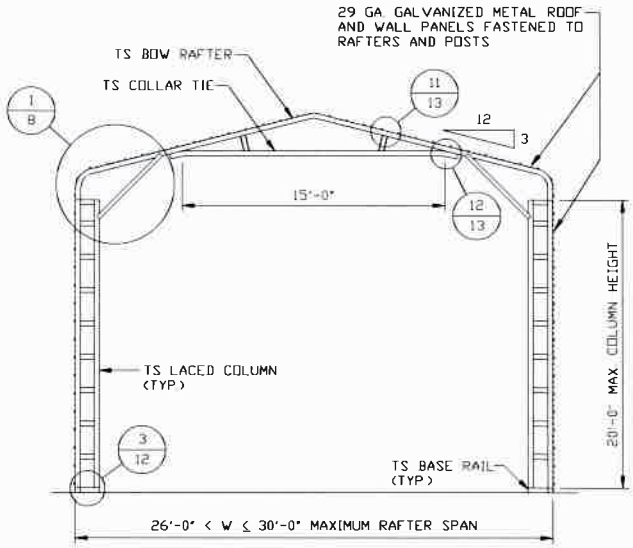

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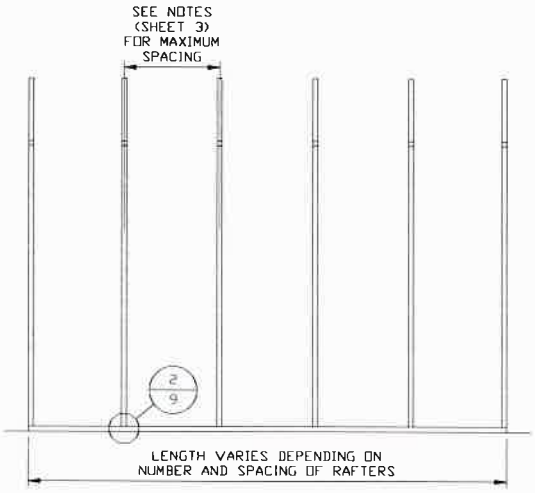

TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

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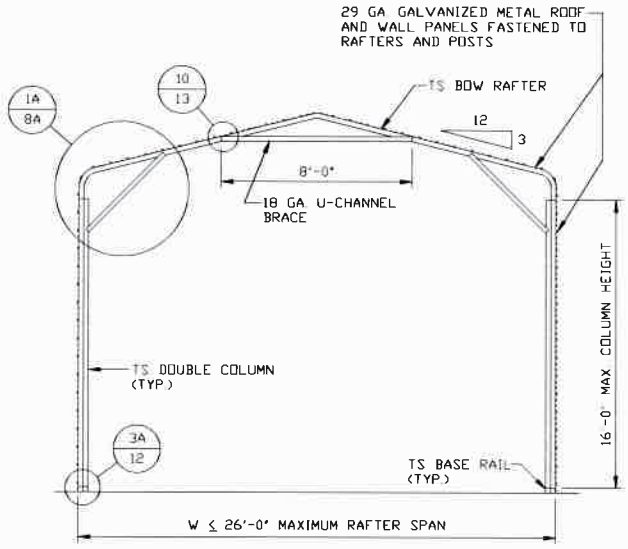

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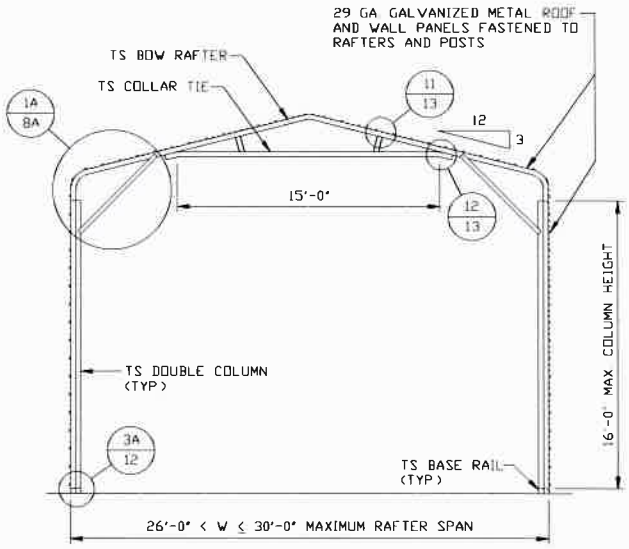

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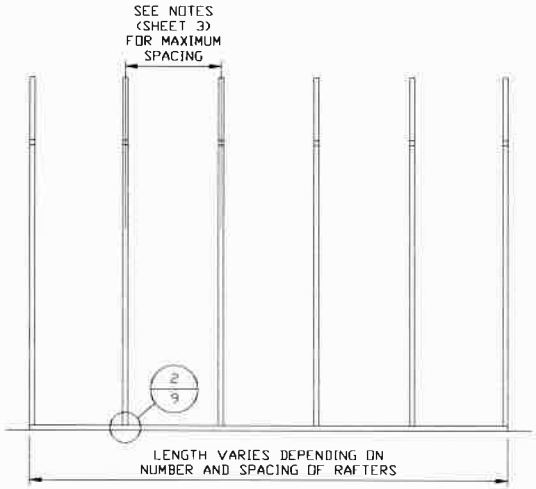

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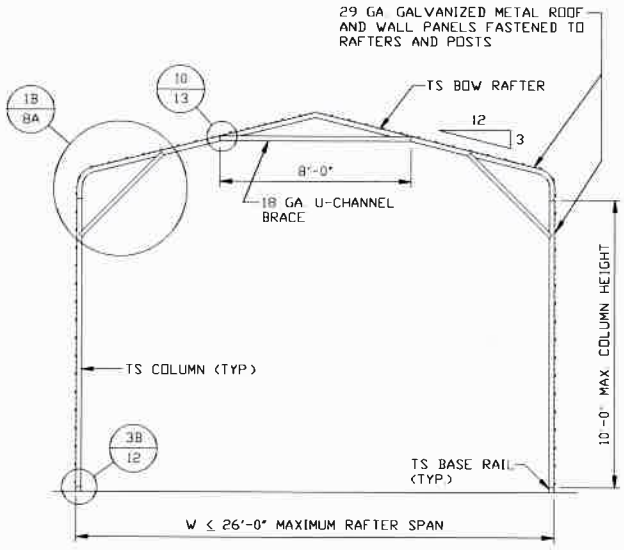

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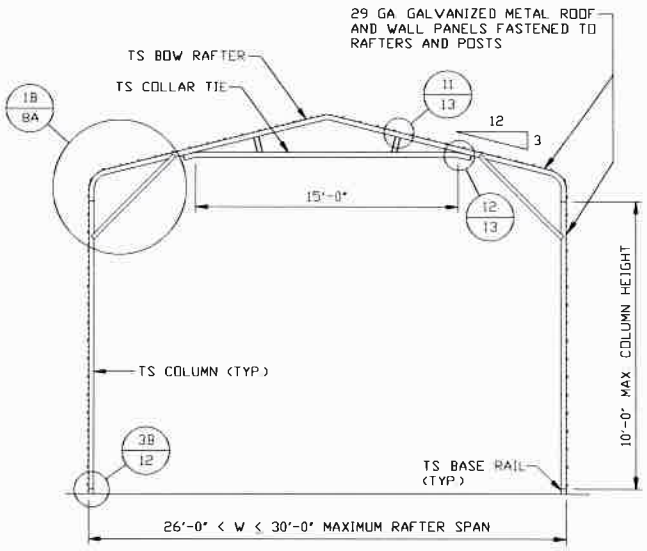

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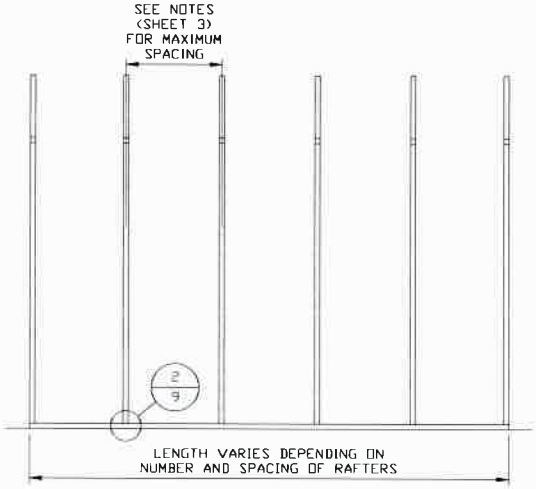

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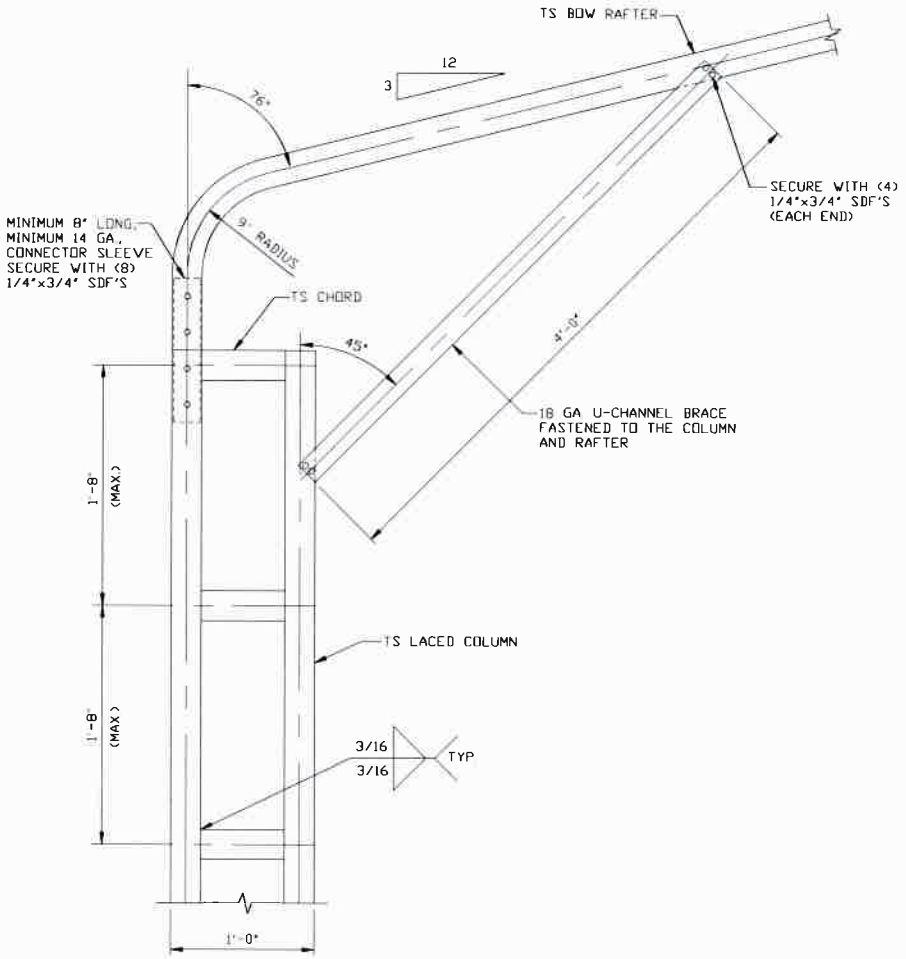
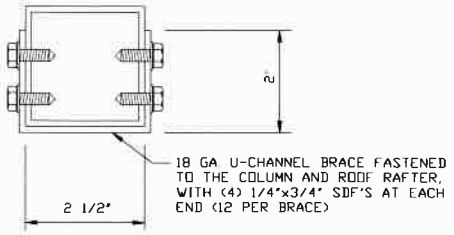
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 7B	DWG. NO: SK-2	REV.: 9



BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 16'-0" < TO ≤ 20'-0"

1

SCALE: NTS



BRACE SECTION

SCALE: NTS

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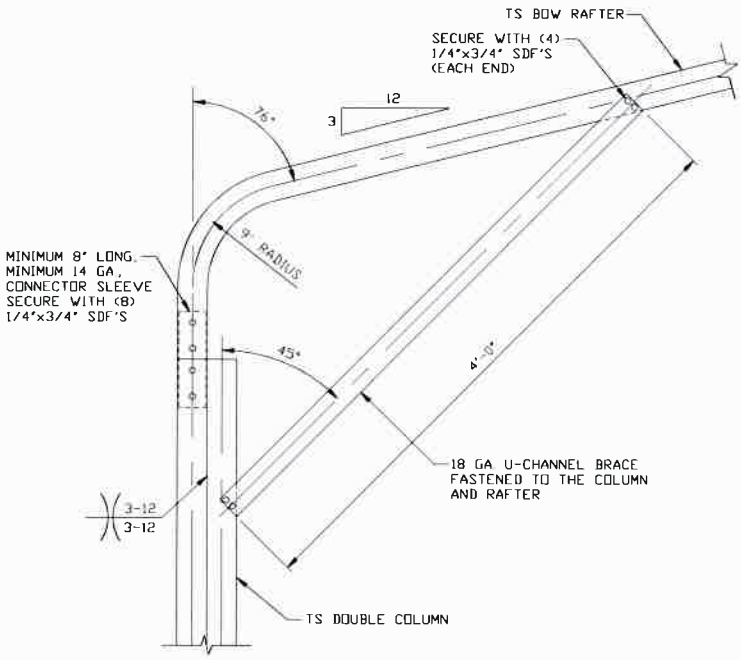
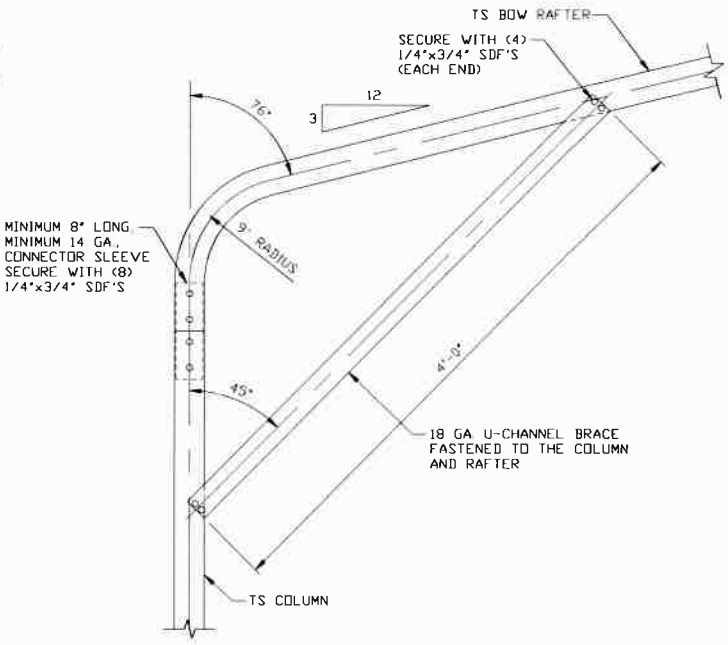
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 8	DWG. NO: SK-2	REV.: 9



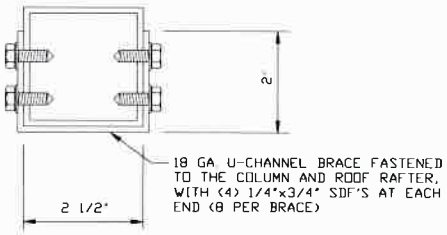
1A BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS 10'-0" < TO ≤ 16'-0"

SCALE: NTS



1B BOX EAVE RAFTER/CORNER POST CONNECTION DETAIL FOR HEIGHTS ≤ 10'-0"

SCALE: NTS



BRACE SECTION

SCALE: NTS

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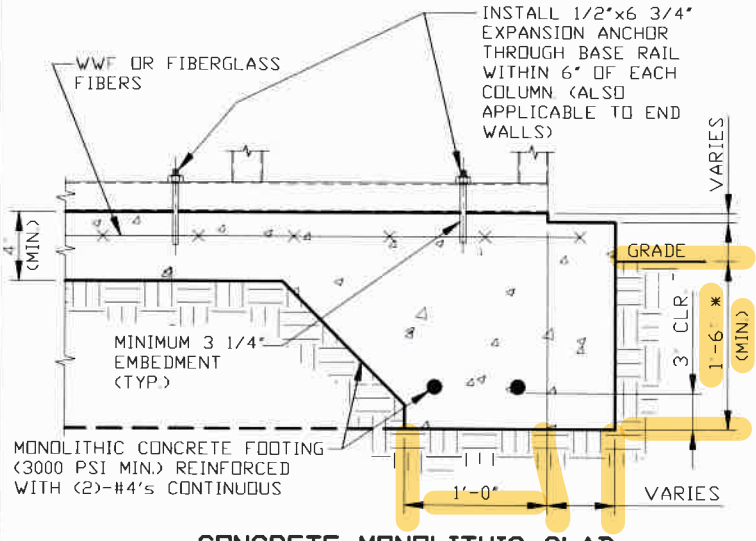
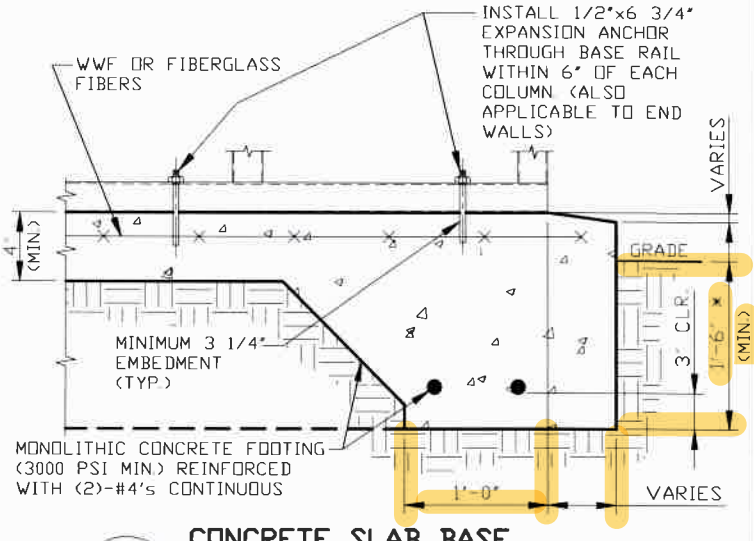
	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 8A	DWG. NO: SK-2	REV.: 9

BASE RAIL ANCHORAGE OPTIONS



2 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD.



2A CONCRETE SLAB BASE RAIL ANCHORAGE

SCALE: NTS
MINIMUM ANCHOR EDGE DISTANCE IS 4".
* COORDINATE WITH LOCAL CODES/ORD.

GENERAL NOTES

NOTE: CONCRETE MONOLITHIC SLAB DESIGN BASED ON MINIMUM SOIL BEARING CAPACITY OF 1,500 PSF.

CONCRETE:

CONCRETE SHALL HAVE A MINIMUM SPECIFIED COMPRESSIVE STRENGTH OF 3,000 PSI 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 OR WEATHER, AND 1 1/2" ELSEWHERE.

REINFORCING STEEL:

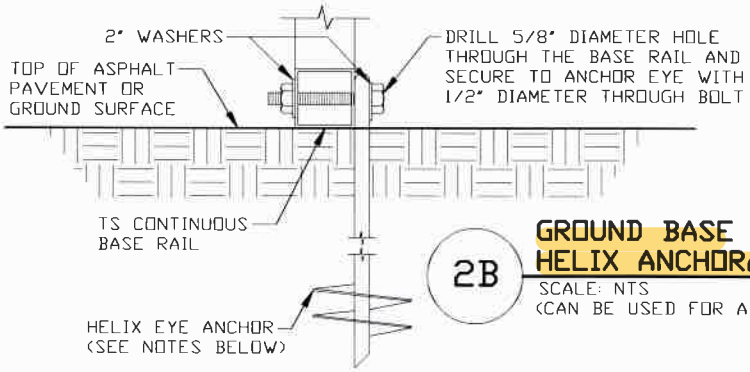
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

REINFORCEMENT MAY BE BENT IN THE SHOP OR 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.

HELIX ANCHOR NOTES:

1. FOR VERY DENSE AND/OR CEMENTED SANDS, COARSE GRAVEL AND COBBLES, CALICHE, PRELOADED SILTS AND CLAYS, USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
3. FOR MEDIUM DENSE COARSE SANDS, SANDY GRAVELS, VERY STIFF SILTS, AND CLAYS USE MINIMUM (2) 4" HELICES WITH MINIMUM 30 INCH EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
4. FOR LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFF CLAYS AND SILTS ALLUVIAL FILL, USE MINIMUM (2) 6" HELICES WITH MINIMUM 50" EMBEDMENT.
5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



2B GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

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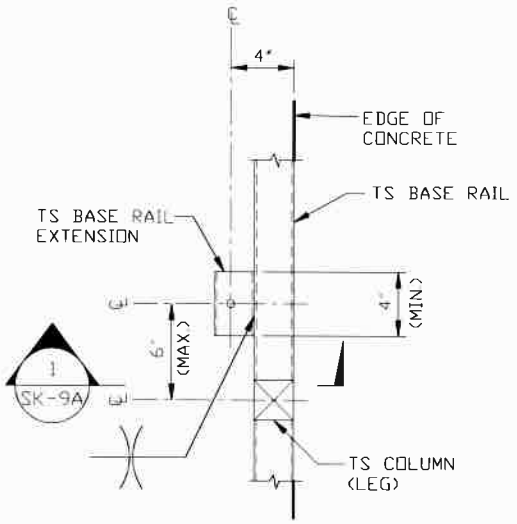
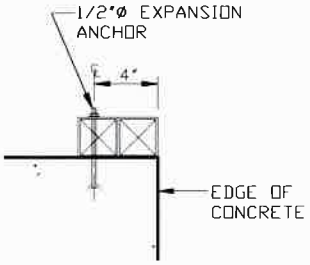
CHECKED BY: PDH			
PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
CLIENT: SBSI	SHT. 9	DWG. NO: SK-2	REV.: 9

ADDITIONAL BASE RAIL ANCHORAGE OPTION



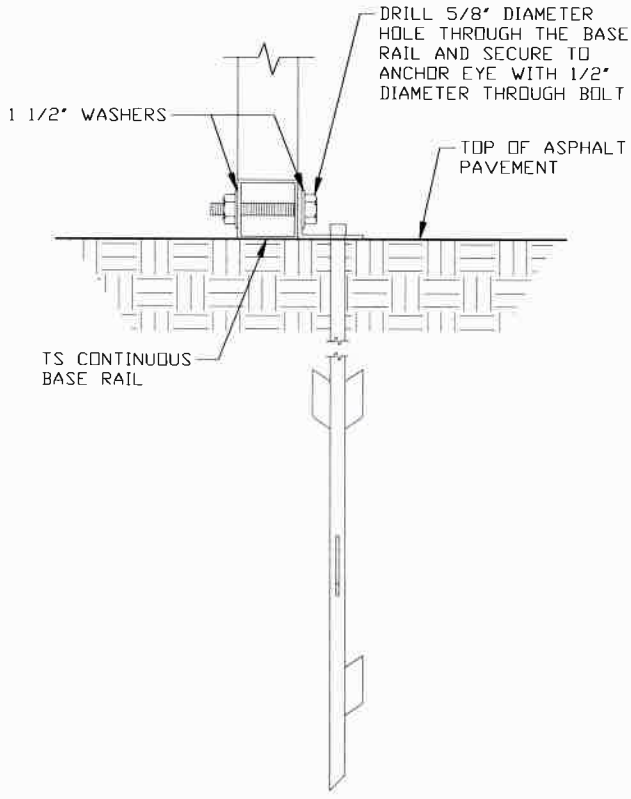
TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



SECTION 1 / SK-9A

SCALE: NTS



2C ASPHALT BASE ANCHORAGE

SCALE: NTS

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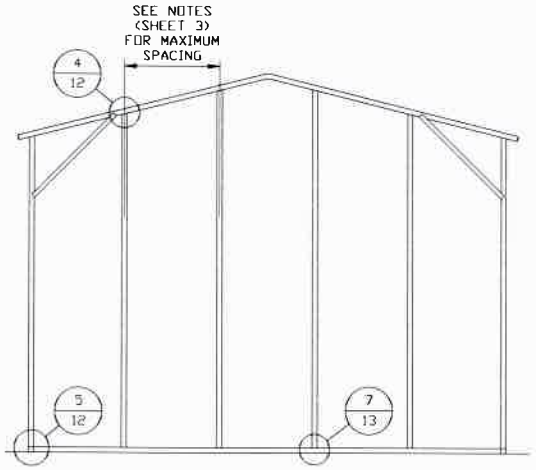
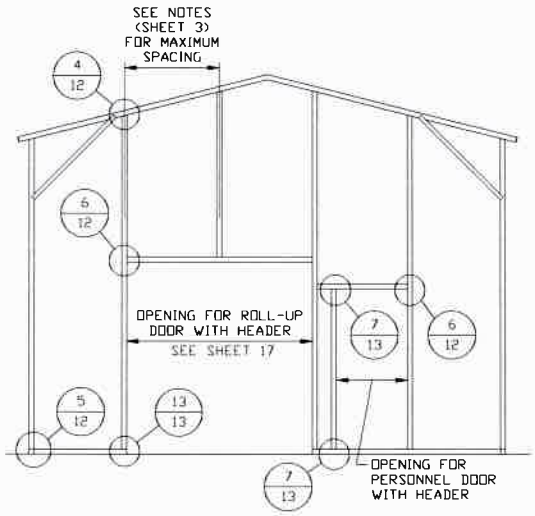
	CLIENT: SBSI	SHT. 9A	DWG. NO: SK-2	REV.: 9

BOX EAVE RAFTER END WALL AND SIDE WALL OPENINGS



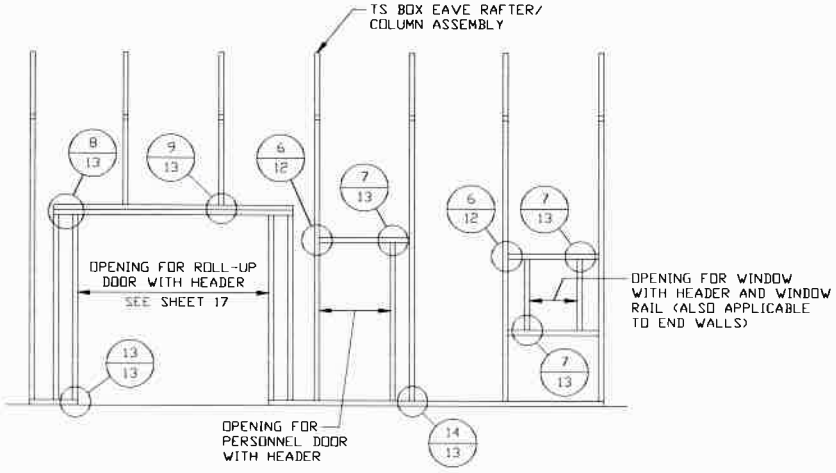
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE NTS

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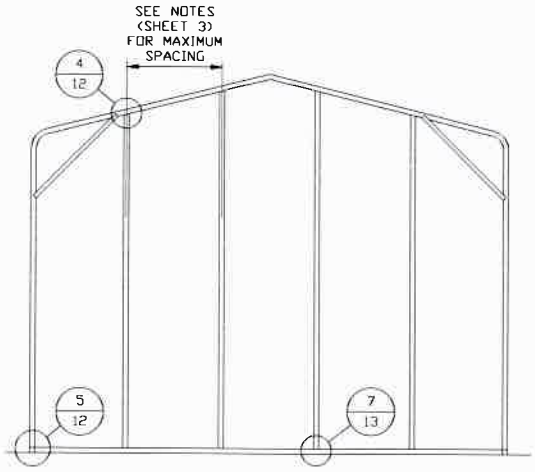
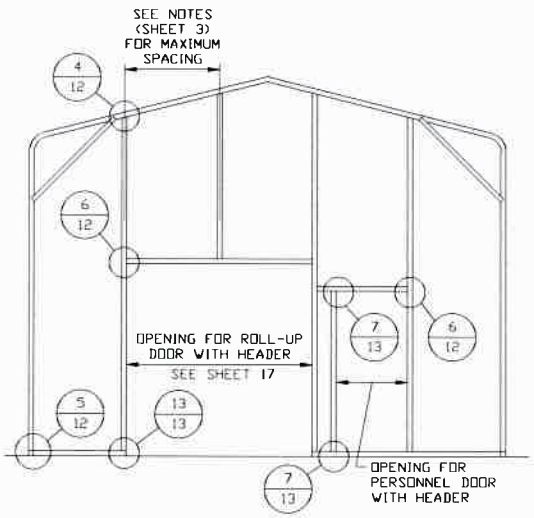
	CLIENT: SBSI	SHT. 10	DWG. NO: SK-2	REV.: 9

BOW EAVE RAFTER END WALL AND SIDE WALL OPENINGS



TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

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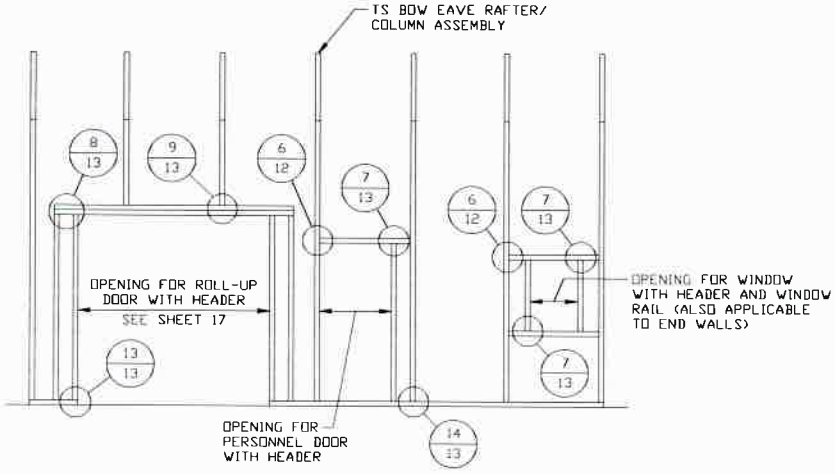

TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" UTILITY STRUCTURE		
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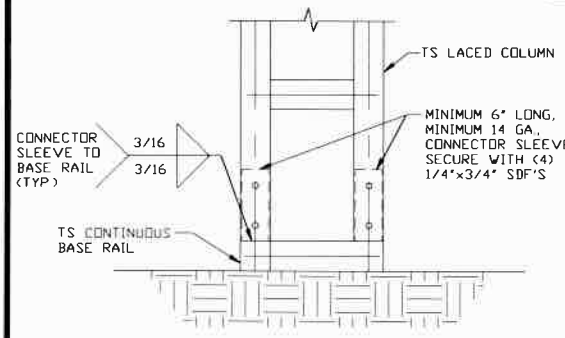
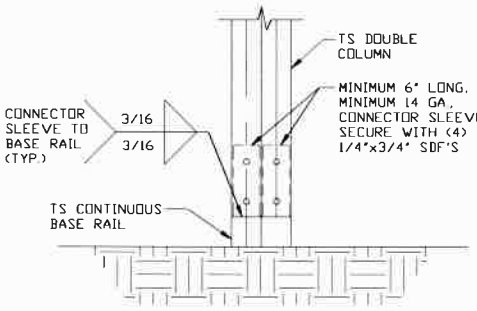
	CLIENT: SBSI	SHT. 11	DWG. NO: SK-2	REV.: 9

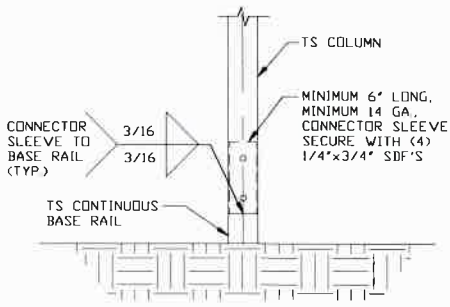
CONNECTION DETAILS



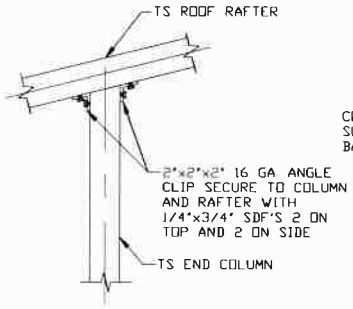
3 POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



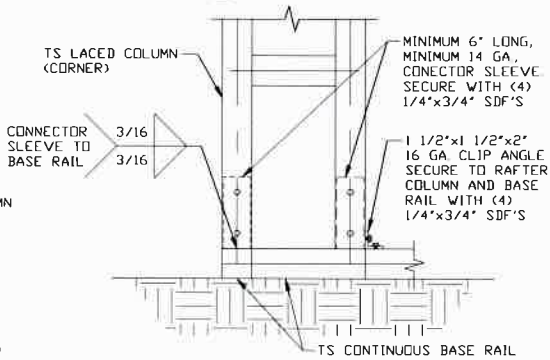
3A POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



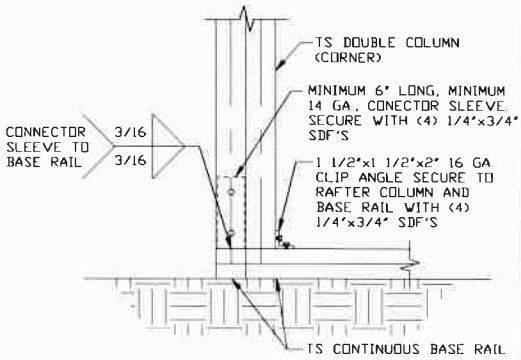
3B POST/BASE RAIL CONNECTION DETAIL
SCALE: NTS



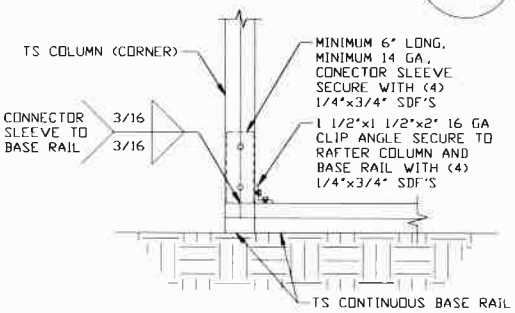
4 END COLUMN/RAFTER CONNECTION DETAIL
SCALE: NTS



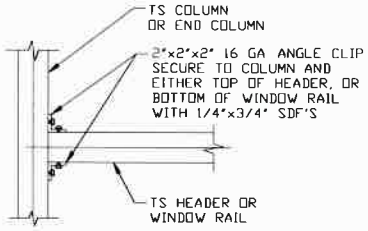
5 END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



5A END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



5B END COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



6 COLUMN OR WINDOW RAIL/ WALL GIRT TO POST CONNECTION DETAIL
SCALE: NTS

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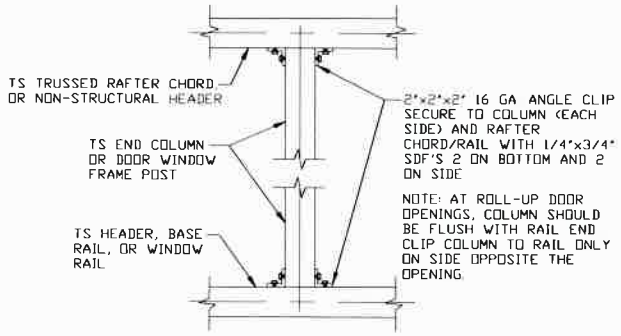
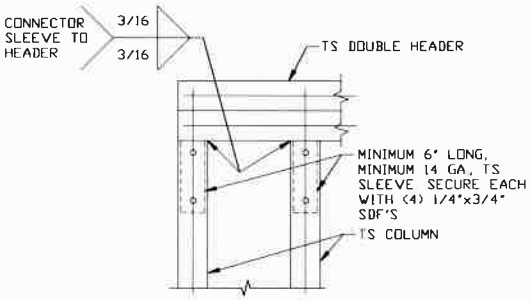
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 12	DWG. NO: SK-2	REV.: 9

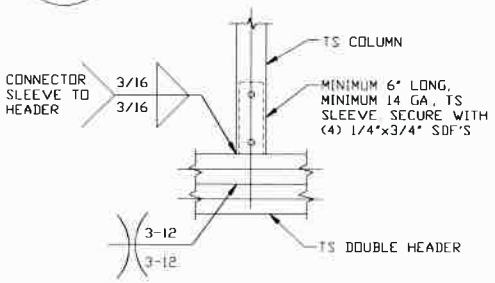
CONNECTION DETAILS



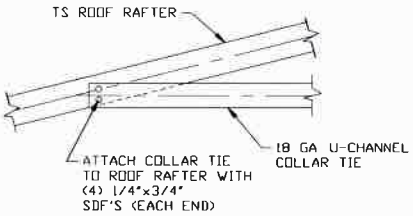
7 **COLUMN TO HEADER, BASE RAIL, OR WINDOW RAIL CONNECTION DETAIL**
SCALE: NTS



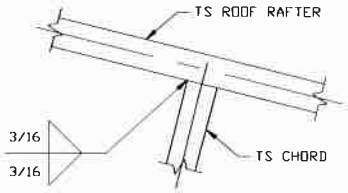
8 **DOUBLE HEADER/COLUMN CONNECTION DETAIL**
SCALE: NTS



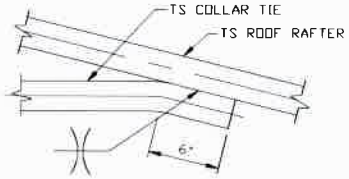
9 **COLUMN/DOUBLE HEADER CONNECTION DETAIL**
SCALE: NTS



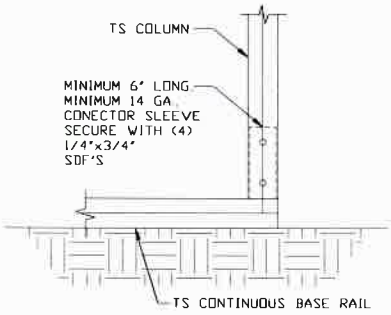
10 **COLLAR TIE CONNECTION DETAIL**
SCALE: NTS



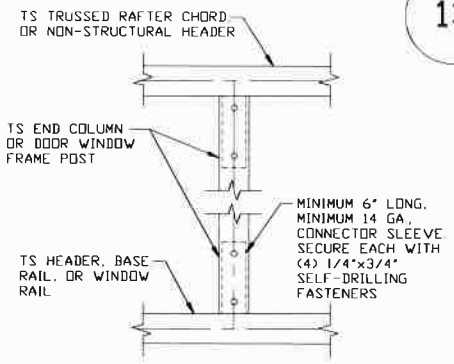
11 **RAFTER TO CHORD CONNECTION DETAIL**
SCALE: NTS



12 **COLLAR TIE CONNECTION DETAIL**
SCALE: NTS



13 **COLUMN/BASE RAIL CONNECTION DETAIL**
SCALE: NTS



14 **COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL**
SCALE: NTS

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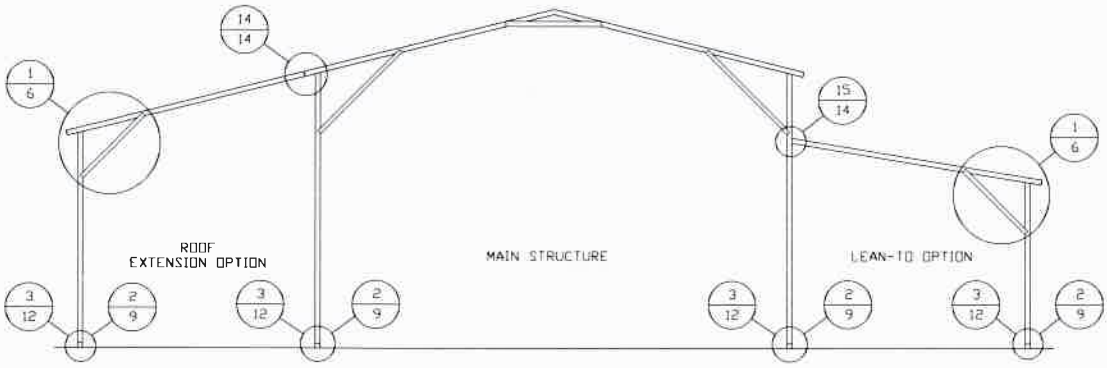
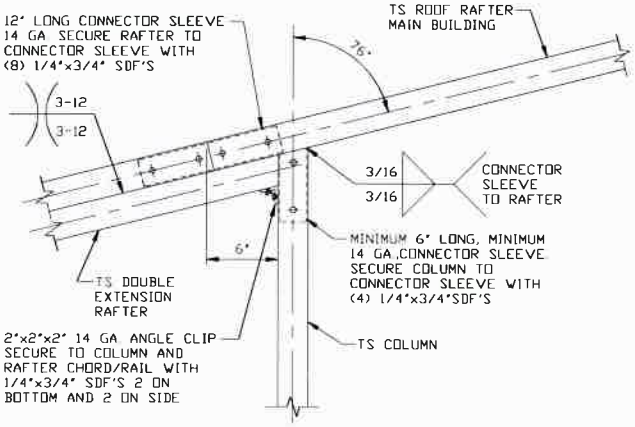
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 13	DWG. NO: SK-2	REV.: 9

BOX EAVE RAFTER LEAN-TO OPTIONS

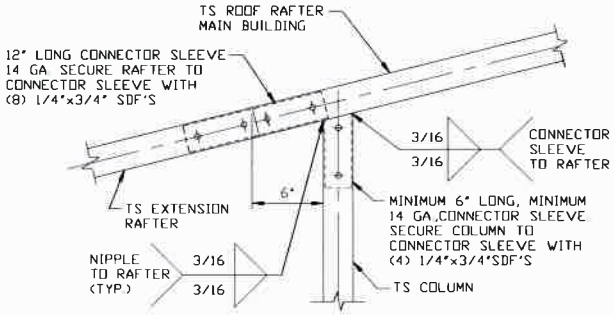


TYPICAL BOX EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

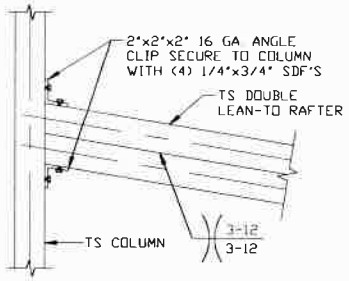
SCALE: NTS
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0".
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0".
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0".
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS



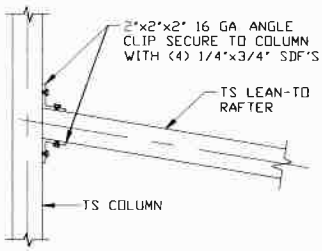
14 SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS 12'-0" < TO ≤ 16'-0"
SCALE: NTS



14A SIDE EXTENSION RAFTER/ COLUMN DETAIL FOR RAFTER SPANS ≤ 12'-0"
SCALE: NTS



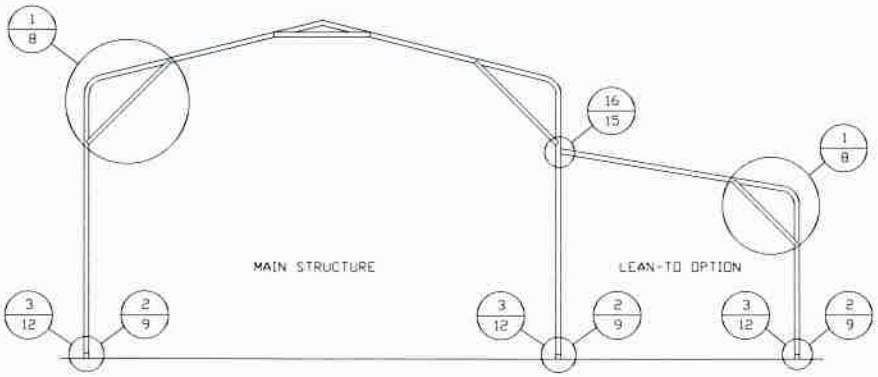
15 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"
SCALE: NTS



15A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"
SCALE: NTS

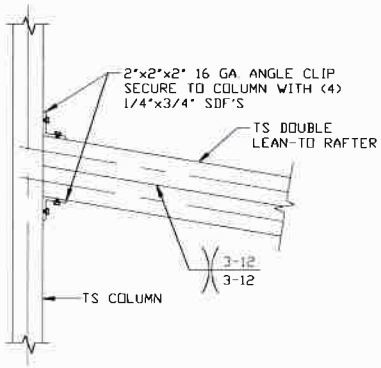
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	DRAWN BY: LT	STEEL BUILDINGS AND STRUCTURES, INC. P.O. BOX 1287, MOUNT AIRY, NC 27030 30'-0"x20'-0" UTILITY STRUCTURE		
	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 14	DWG. NO: SK-2	REV.: 9

BOW EAVE RAFTER LEAN-TO OPTIONS

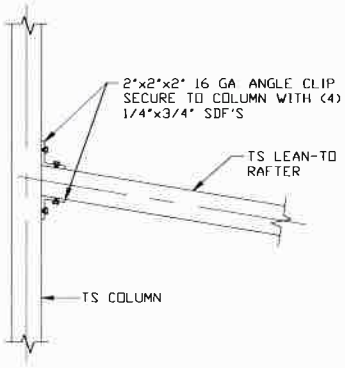


TYPICAL BOW EAVE RAFTER LEAN-TO OPTIONS FRAMING SECTION

SCALE: NTS
MAXIMUM WIDTH OF SINGLE TS ROOF EXTENSION LEAN-TO IS 12'-0".
MAXIMUM WIDTH OF DOUBLE TS ROOF EXTENSION LEAN-TO IS 16'-0"
MAXIMUM SINGLE COLUMN HEIGHT FOR MAIN BUILDING WITH ROOF EXTENSION LEAN-TO ATTACHED IS 8'-0"
FOR COLUMN CONFIGURATIONS REFERENCE RAFTER COLUMN CONNECTION DETAILS.



16 LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS 12'-0" < TO ≤ 16'-0"
SCALE: NTS



16A LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL FOR WIDTHS ≤ 12'-0"
SCALE: NTS

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

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CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" UTILITY STRUCTURE

DATE: 12-11-20
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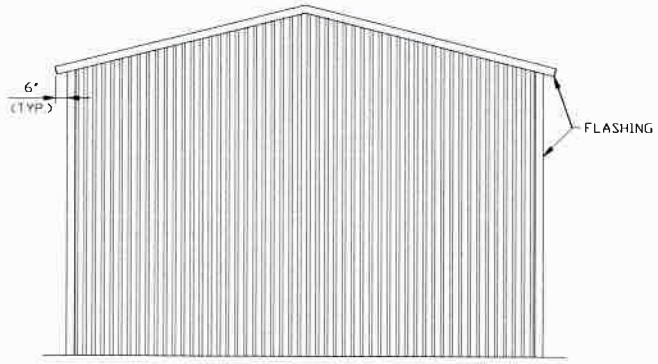
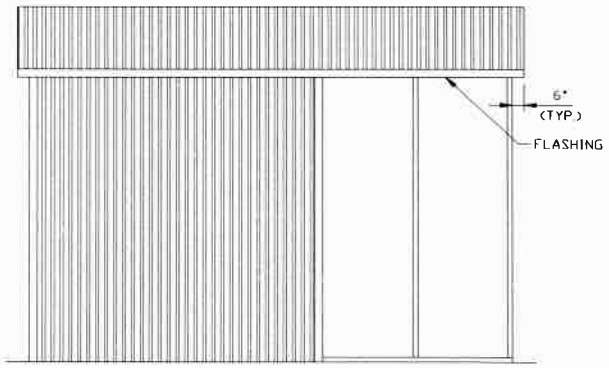
SHT. 15
DWG. NO: SK-2
REV.: 9

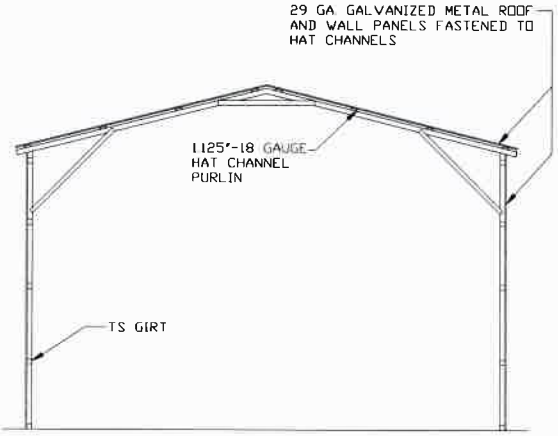
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



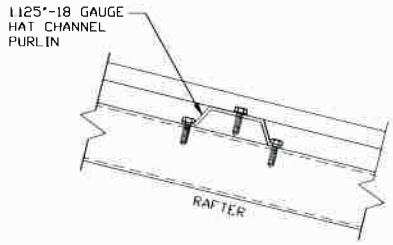
TYPICAL END ELEVATION
VERTICAL ROOF/SIDING
SCALE: NTS



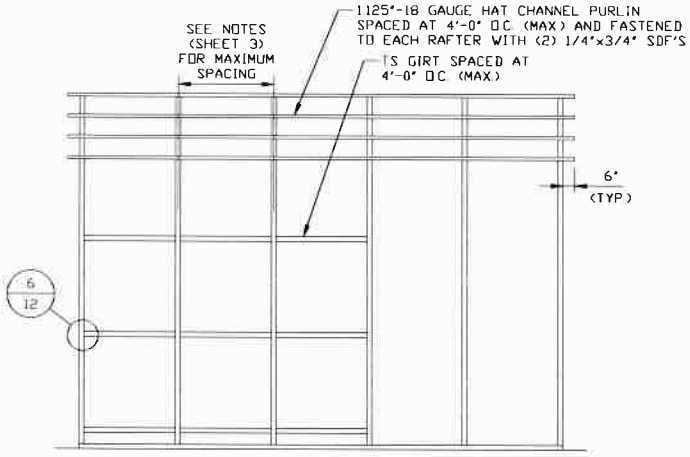
TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING
SCALE: NTS



TYPICAL SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS



PANEL ATTACHMENT
(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS



TYPICAL FRAMING SECTION
VERTICAL ROOF/SIDING OPTION
SCALE: NTS

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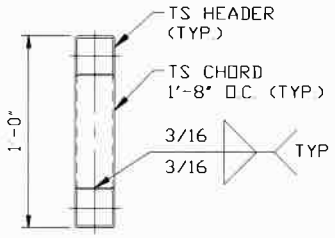
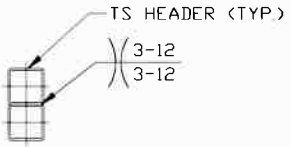
	CHECKED BY: PDH		
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 16	DWG. NO: SK-2	REV.: 9

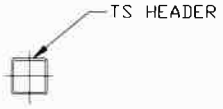
SIDE WALL HEADER OPTIONS



LACED HEADER DETAIL FOR DOOR OPENINGS 12'-0" < LENGTH ≤ 20'-0"
SCALE: NTS



DOUBLE HEADER DETAIL FOR DOOR OPENINGS 7'-0" < LENGTH ≤ 12'-0"
SCALE: NTS



SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH ≤ 7'-0"
SCALE: NTS

END WALL HEADER OPTIONS

SINGLE HEADER DETAIL FOR DOOR OPENINGS LENGTH ≤ 12'-0"
SCALE: NTS

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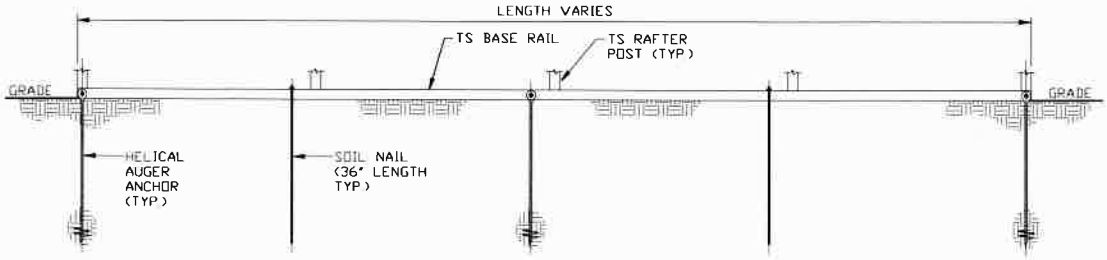
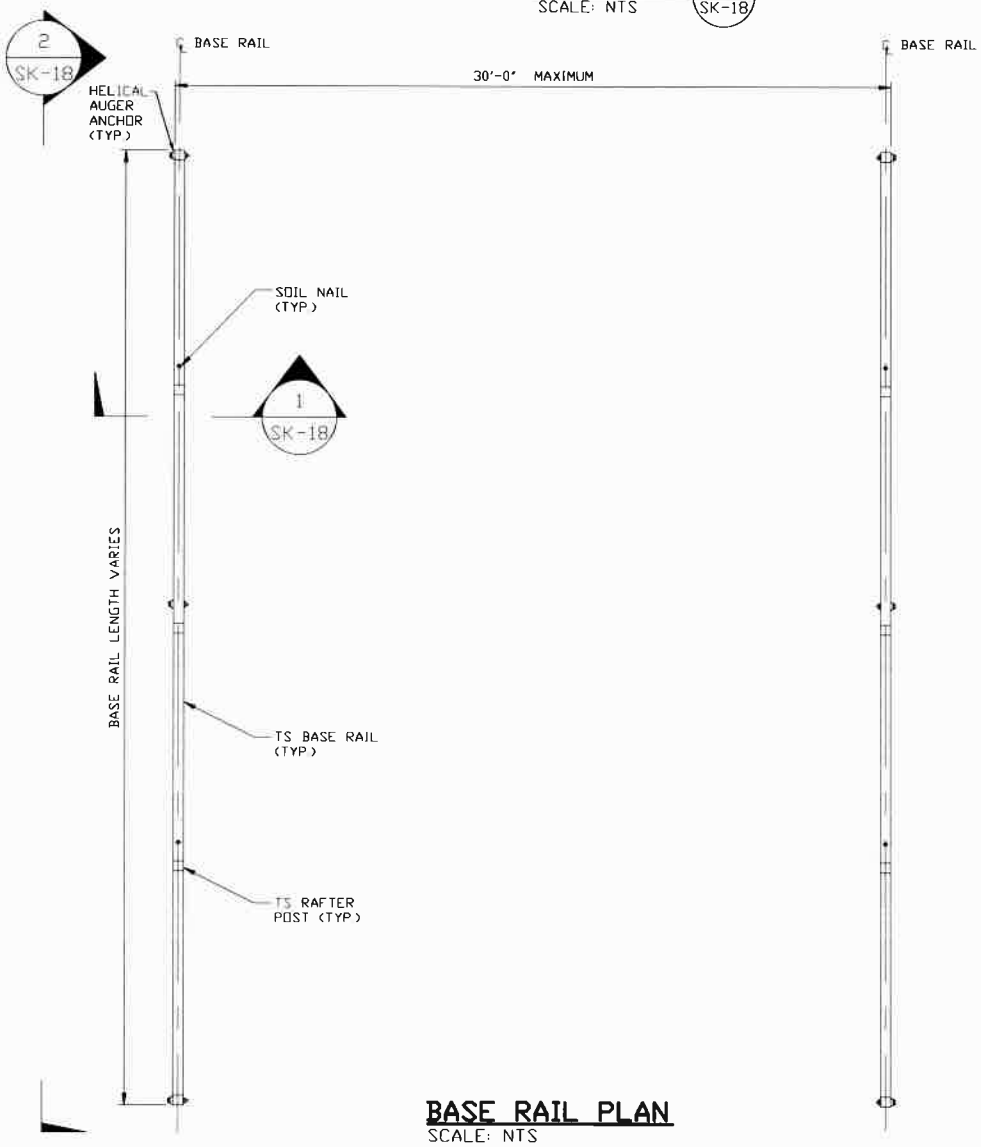
	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 17	DWG. NO: SK-2	REV.: 9

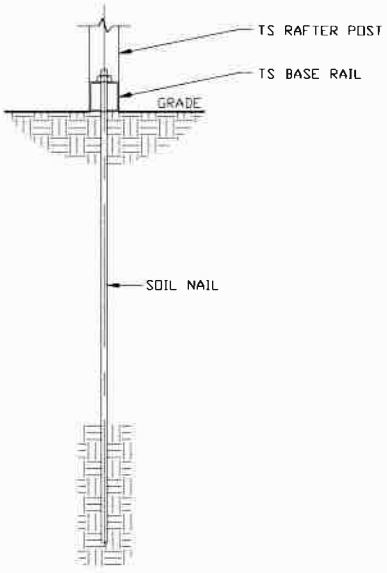
OPTIONAL BASE RAIL ON GRADE APPLICATION



SECTION 2 / SK-18
SCALE: NTS



BASE RAIL PLAN
SCALE: NTS



SECTION 1 / SK-18
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)

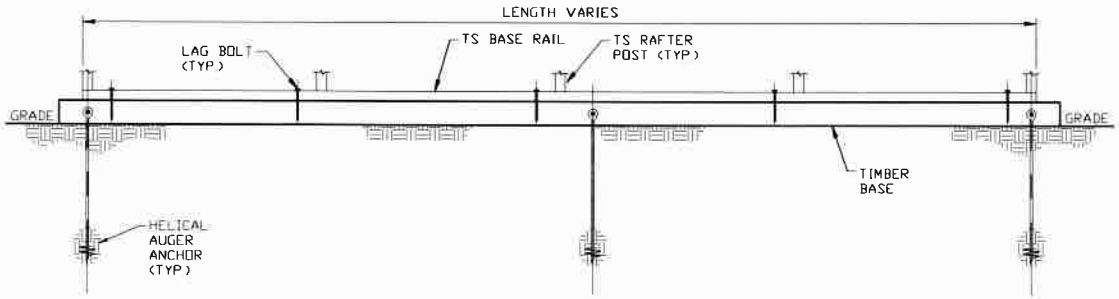
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

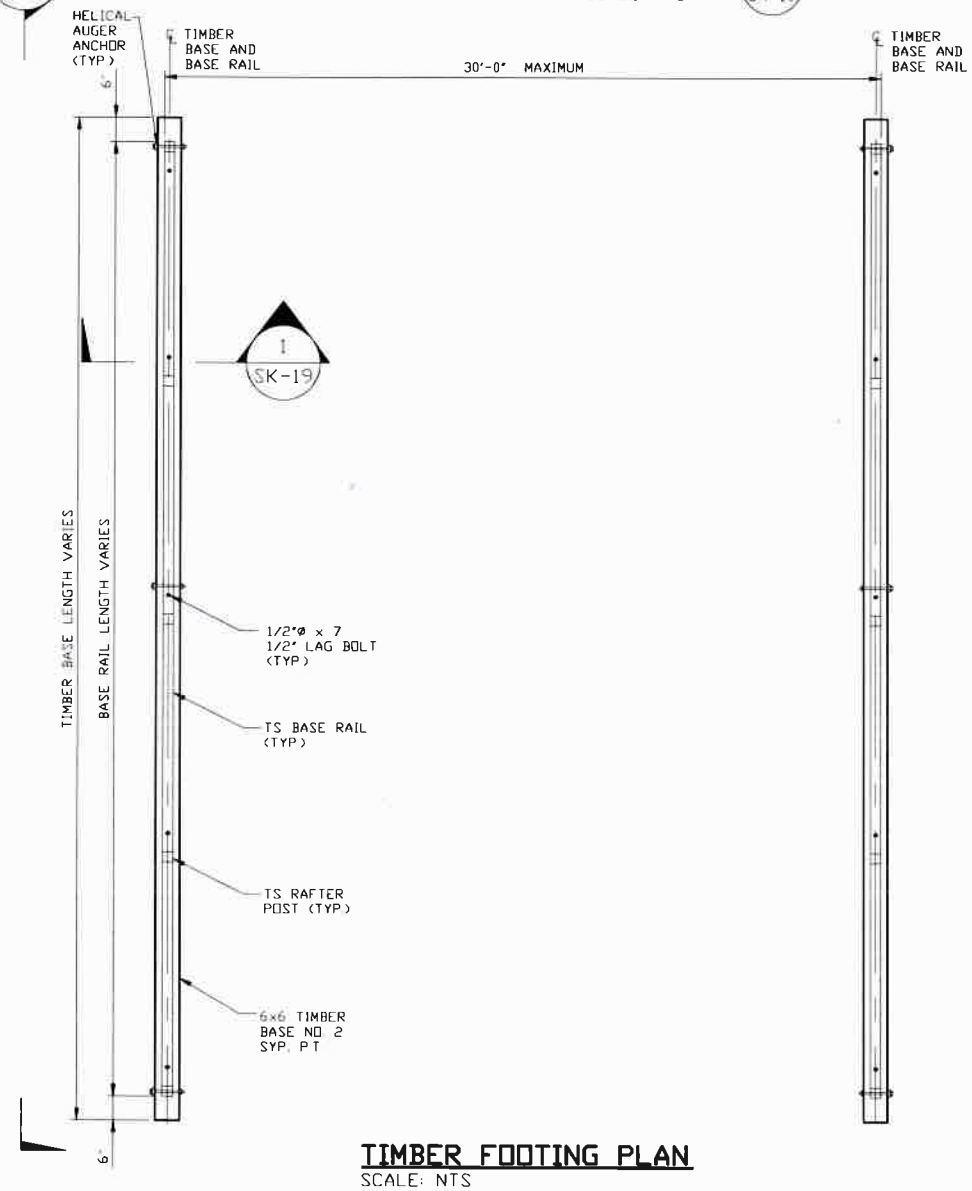
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" UTILITY STRUCTURE

DATE: 12-11-20 | SCALE: NTS | JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 18 | DWG. NO: SK-2 | REV.: 9

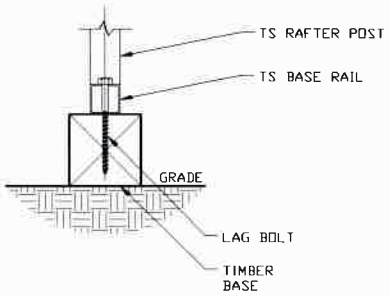
OPTIONAL BASE RAIL ON TIMBER BEAM



SECTION 2 / SK-19
SCALE: NTS



TIMBER FOOTING PLAN
SCALE: NTS



SECTION 1 / SK-19
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)

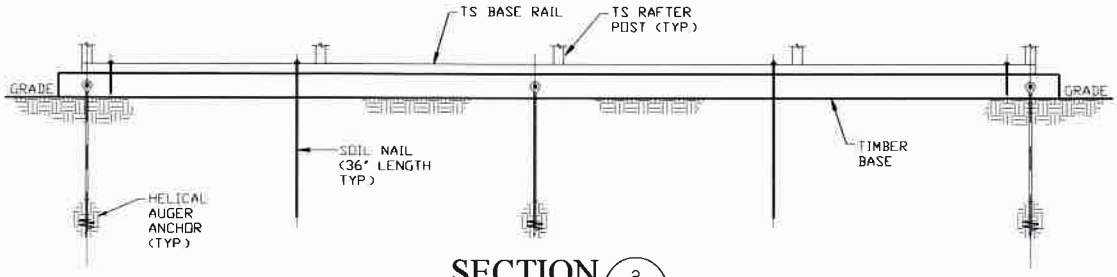
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

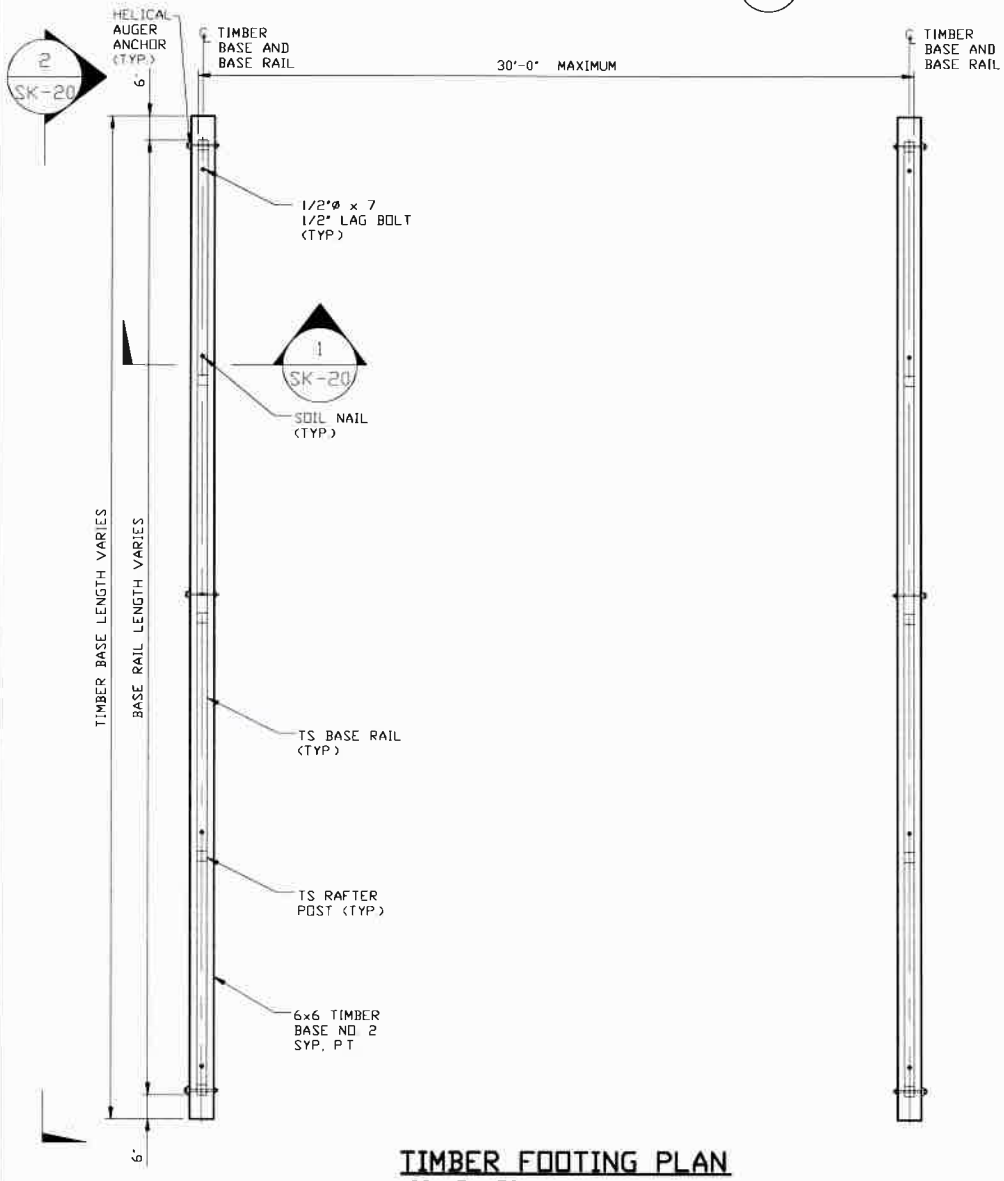
STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" UTILITY STRUCTURE

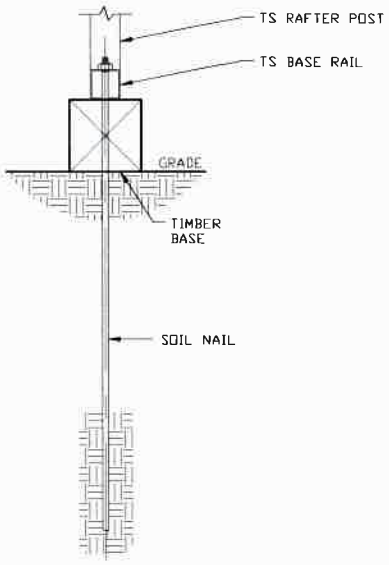
DATE: 12-11-20
SCALE: NTS
JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 19
DWG. NO: SK-2
REV.: 9

OPTIONAL BASE RAIL ON TIMBER BEAM WITH SOIL NAIL



SECTION 2 / SK-20
SCALE: NTS





SECTION 1 / SK-20
SCALE: NTS

TIMBER FOOTING PLAN
SCALE: NTS

HELIX ANCHOR	
SIDE LENGTH	MAXIMUM SPACING
VARIES	10'-0" (EVERY OTHER POST)

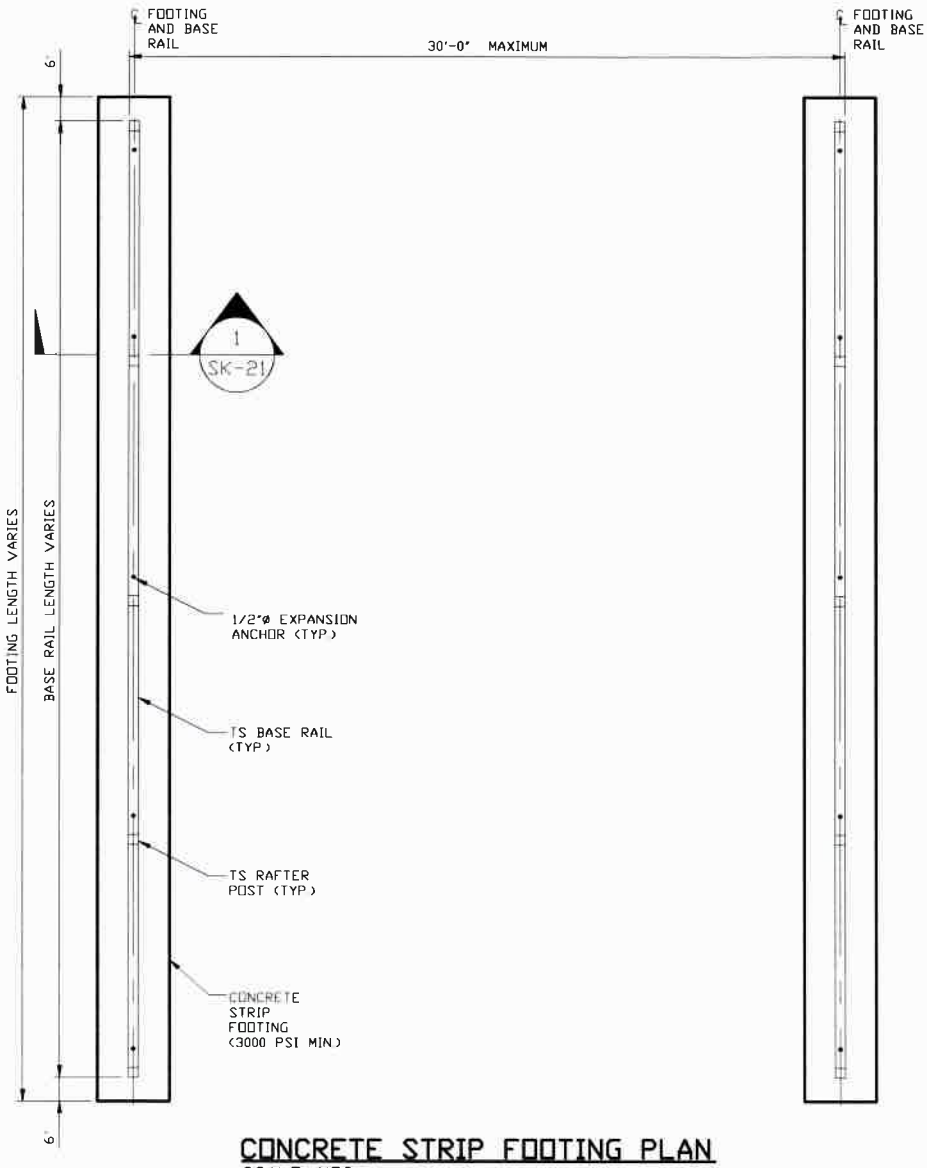
MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT
CHECKED BY: PDH
PROJECT MGR: WSM
CLIENT: SBSI

STEEL BUILDINGS AND STRUCTURES, INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
30'-0"x20'-0" UTILITY STRUCTURE

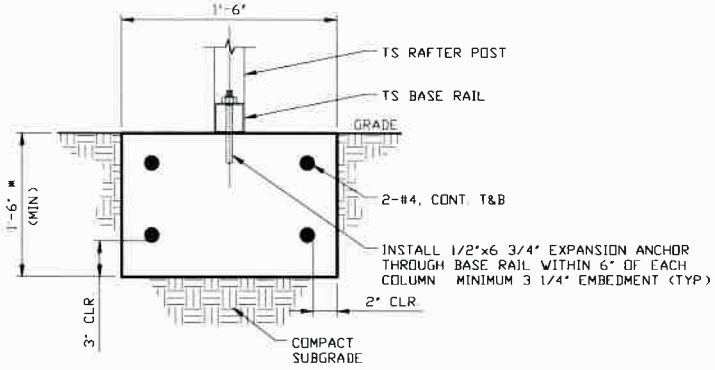
DATE: 12-11-20
SCALE: NTS
JOB NO: 18068S/18156S 18290S/20019S/20324S
SHT. 20
DWG. NO: SK-2
REV.: 9

OPTIONAL CONCRETE STRIP FOOTING



CONCRETE STRIP FOOTING PLAN

SCALE: NTS



SECTION 1/SK-21

SCALE: NTS

* COORDINATE WITH LOCAL CODES/ORD

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	CHECKED BY: PDH			
	PROJECT MGR: WSM	DATE: 12-11-20	SCALE: NTS	JOB NO: 18068S/18156S 18290S/20019S/20324S
	CLIENT: SBSI	SHT. 21	DWG. NO: SK-2	REV.: 9