



STRUCTURAL DESIGN

ENCLOSED BUILDING

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

18 August 2021

Revision 2

M&A Project No. 17270S/19118S/21194S

Prepared for:

GA Southern Steel Buildings Inc.
1086 Gene McQueen Road
Moultrie, GA 31788

Prepared by:

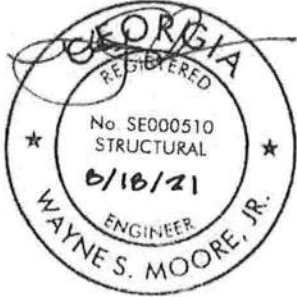
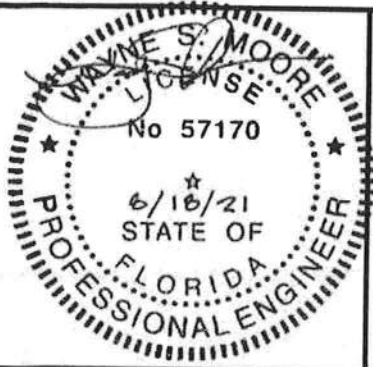
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PROJECT MGR: WSH

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SCALE: NTS

SHT. 1

DWG. NO: SK-3

JOB NO:
17270S/19118S/21194S

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INSTALLATION NOTES AND SPECIFICATIONS

- 1 DESIGN IS FOR MAXIMUM 30'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STRUCTURES.
- 2 DESIGN WAS DONE IN ACCORDANCE WITH ALL THE APPLICABLE BUILDING CODES LISTED ON SHEET 3A
- 3 DESIGN LOADS ARE AS FOLLOWS:
 - A) DEAD LOAD = 15 PSF
 - B) LIVE LOAD = 12 PSF
 - C) GROUND SNOW LOAD = 15 PSF << 24'-0" WITH U-CHANNEL RAFTER TIE

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED
- 4 ULTIMATE LOW WIND SPEED (LW) 105 TO 140 MPH (NOMINAL WIND SPEED 81 TO 108 MPH)
MAXIMUM RAFTER/POST AND END POST SPACING = 50 FEET (UNLESS NOTED OTHERWISE)
- 5 ULTIMATE HIGH WIND SPEED (HW) 141 TO 180 MPH (NOMINAL WIND SPEED 109 TO 139 MPH)
MAXIMUM RAFTER/POST AND END POST SPACING = 40 FEET (UNLESS NOTED OTHERWISE)
- 6 RISK CATEGORY I
- 7 WIND EXPOSURE CATEGORY B/C
- 8 SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE TUBE STEEL (TS)
FRAMING MEMBERS FOR LOW WIND OR 2 1/4" x 2 1/4" - 12 GAUGE TUBE STEEL (TS) FOR HIGH WIND (UNLESS NOTED OTHERWISE)
- 9 AVERAGE PANEL FASTENER SPACING ON-CENTERS = 6" O.C. (MAX)
- 10 FASTENERS CONSIST OF #12-14x3/4" SELF-DRILLING FASTENER (SDF) FOR LOW WIND OR 1/4"x3/4" SELF DRILLING FASTENER (SDF) FOR HIGH WIND. 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
- 11 GROUND ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL AT OR WITHIN 6' OF EVERY RAFTER COLUMN ALONG SIDES AND ENDS
- 12 GROUND ANCHORS (SOIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 30" LONG MAY BE USED IN SUITABLE SOIL CONDITIONS FOR WIND V ≤ 145 MPH. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SOILS AND MUST BE USED IN UNSUITABLE SOILS AND FOR WIND V > 145 MPH
- 13 CONTRACTOR TO PROVIDE ADEQUATE BRACING FOR STRUCTURE SO THAT IT WILL BE STABLE DURING ALL STAGES OF CONSTRUCTION. THE STRUCTURE AND FOUNDATION ARE DESIGNED FOR A COMPLETED CONDITION ONLY AND, THEREFORE, REQUIRE ADDITIONAL SUPPORT TO MAINTAIN STABILITY BEFORE COMPLETION
- 14 WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
 SOIL SITE CLASS = D
 RISK CATEGORY I
 R = 325 I_E = 10
 S_{DS} = 2.039 g V = C_SW
 S_{D1} = 1.258 g
- 15 PRODUCT APPROVAL CODES 2021
 B-LAP PANEL FL317371
 JANUS ROLL UP FL21450 R6

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LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2020 FLORIDA BUILDING CODE, 7TH EDITION

BUILDING CODE 2015 OF ALABAMA
(ADOPTS THE IBC 2015 WITH AMENDMENTS)

GEORGIA STATE MINIMUM STANDARD BUILDING CODE
(ADOPTS THE IBC 2018 WITH AMENDMENTS)

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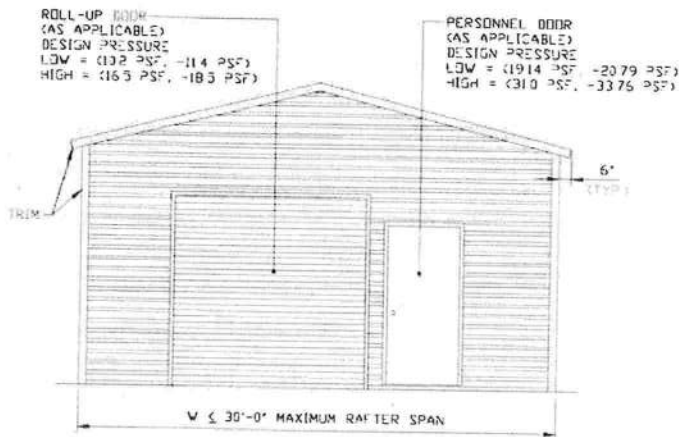
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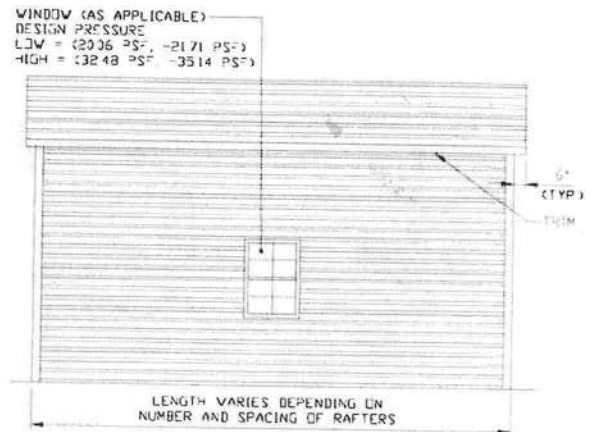
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BOX EAVE FRAME RAFTER STRUCTURE

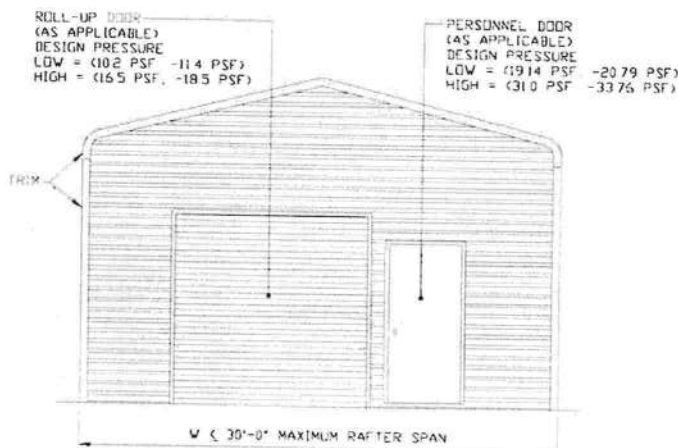


TYPICAL END ELEVATION-HORIZONTAL ROOF
SCALE: NTS

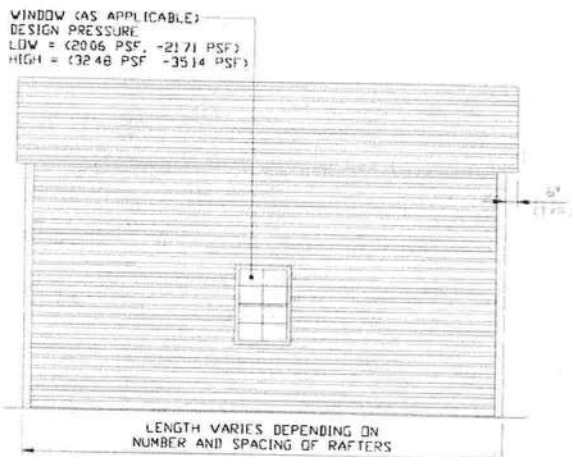


TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
SCALE: NTS

BOW FRAME RAFTER STRUCTURE



TYPICAL END ELEVATION
SCALE: NTS



TYPICAL SIDE ELEVATION
SCALE: NTS

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SHT. 4

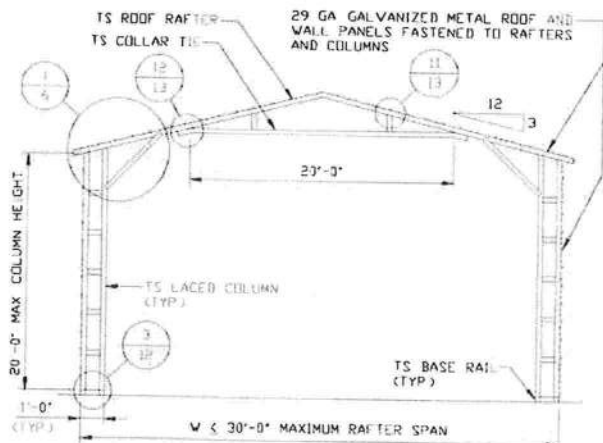
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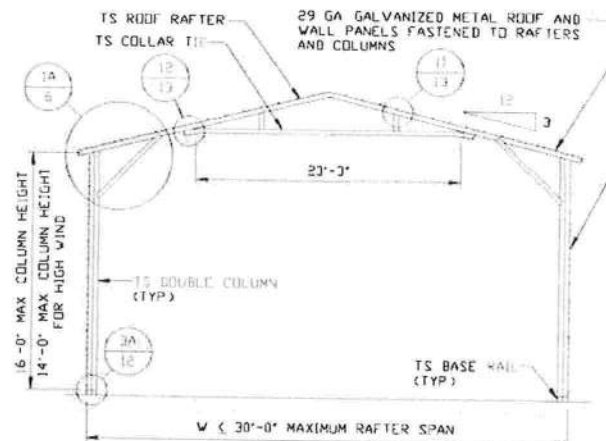
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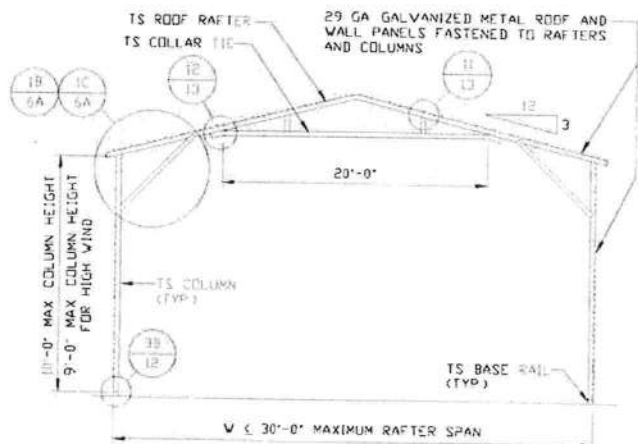
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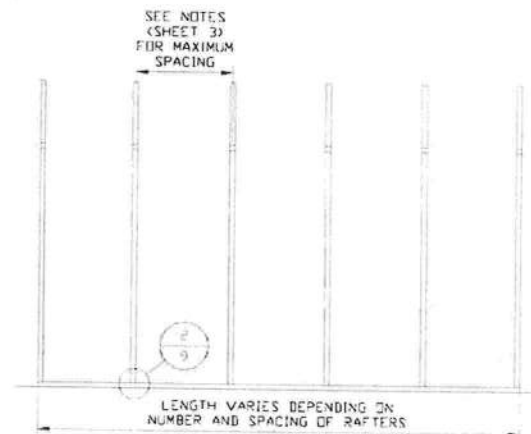
TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN FRAME SECTION
SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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SHT. 5

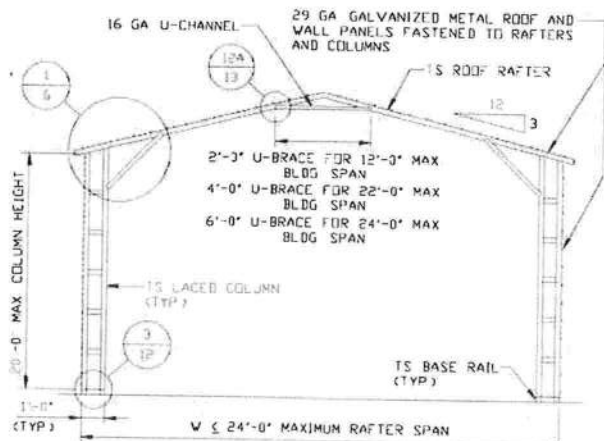
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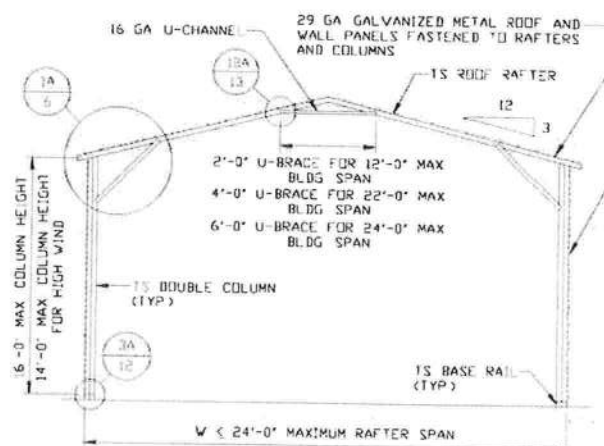
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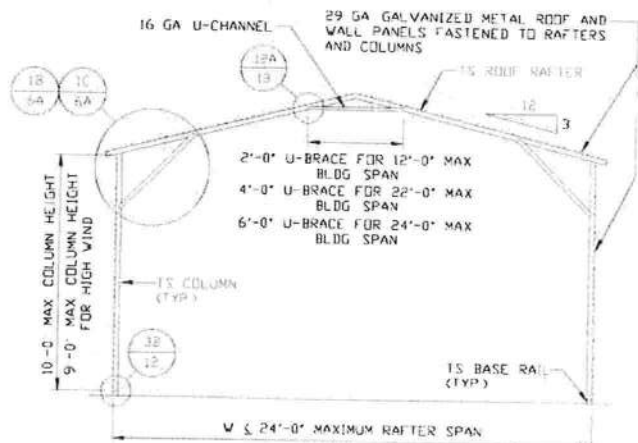
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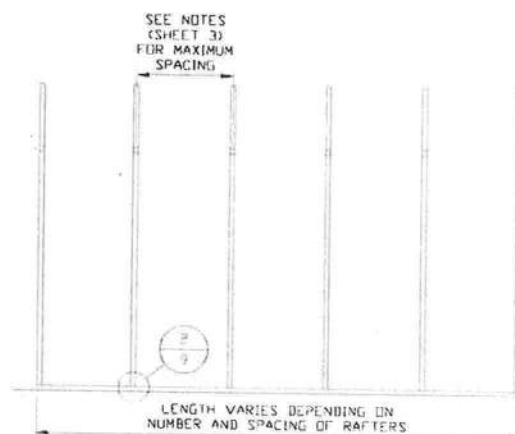
TYPICAL RAFTER/COLUMN FRAME SECTION
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION
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SHT. 5A

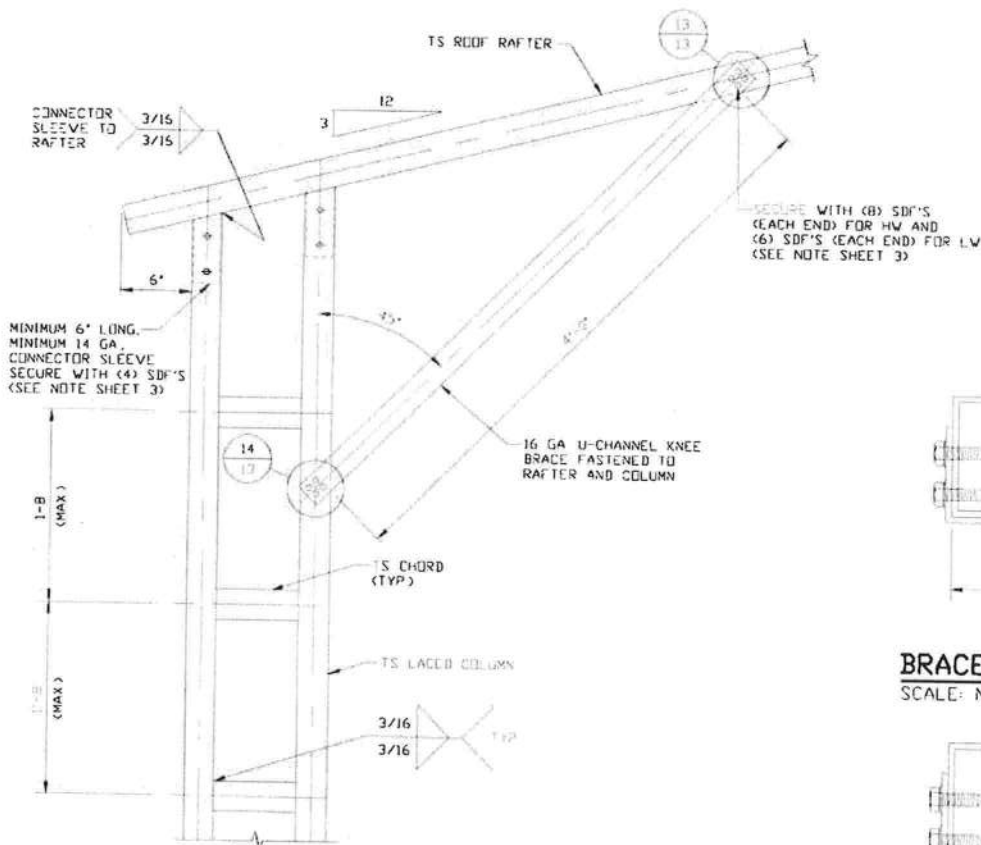
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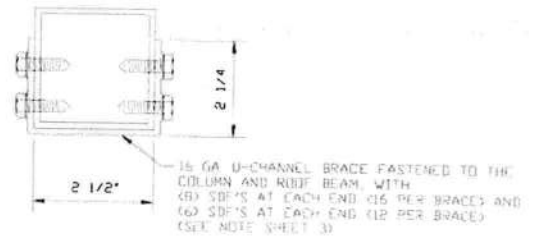
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR HEIGHTS
14'-0" < TO ≤ 20'-0" FOR HIGH WIND
(16'-0" < TO ≤ 20'-0" FOR LOW WIND)**

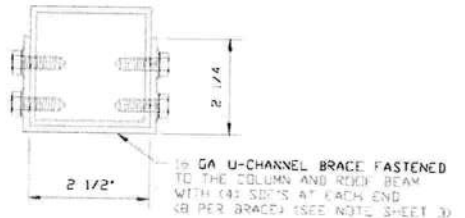
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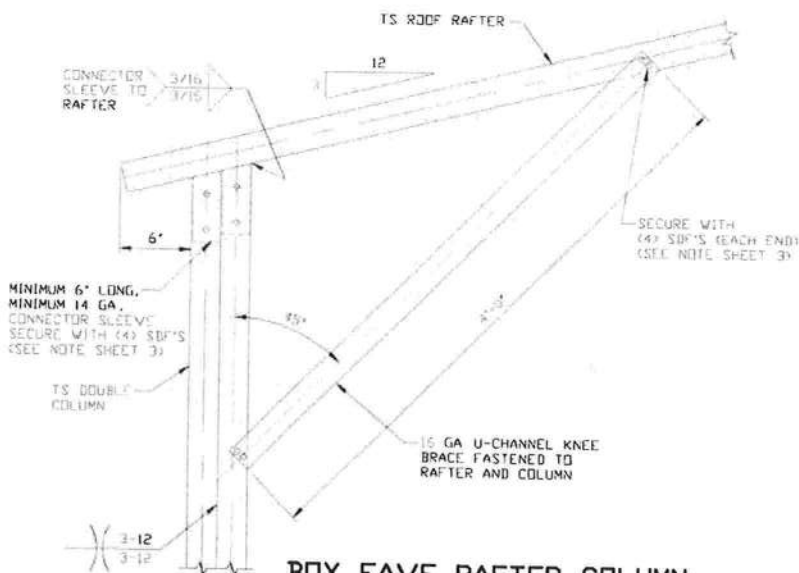
BRACE SECTION

SCALE: NTS



BRACE SECTION

SCALE: NTS



**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR HEIGHTS
9'-0" < TO ≤ 14'-0" FOR HIGH WIND
(10'-0" < TO ≤ 16'-0" FOR LOW WIND)**

1A

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SHT. 6

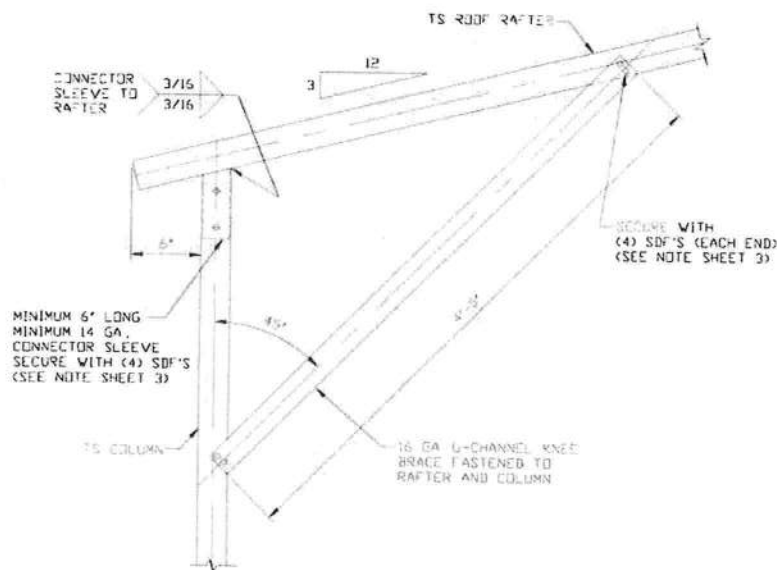
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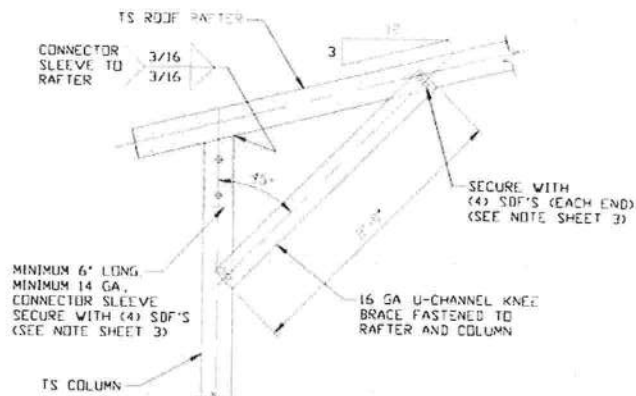
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR HEIGHTS
8'-0" < TO ≤ 9'-0" FOR HIGH WIND
(8'-0" < TO ≤ 10'-0" FOR LOW WIND)**

1B

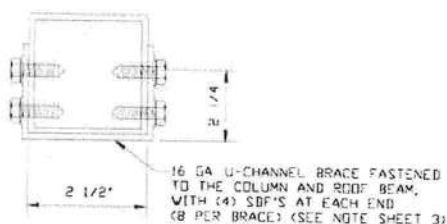
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 8'-0"
(HIGH WIND AND LOW WIND)**

1C

SCALE: NTS



BRACE SECTION

SCALE: NTS

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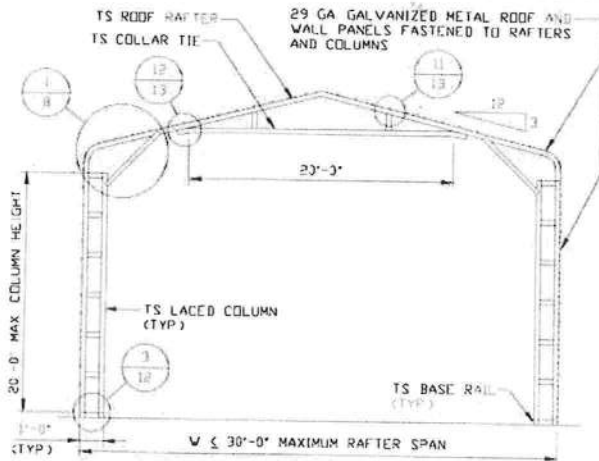
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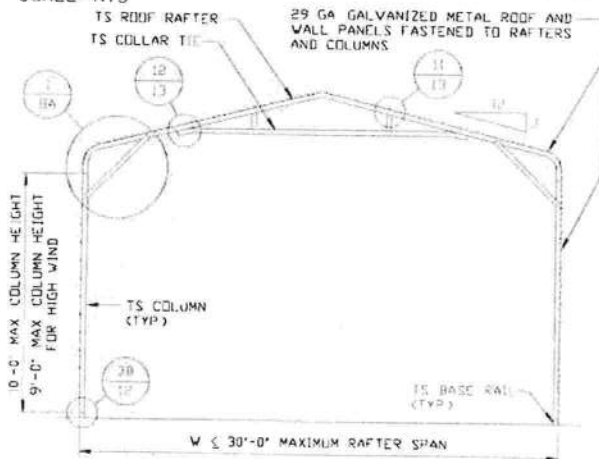
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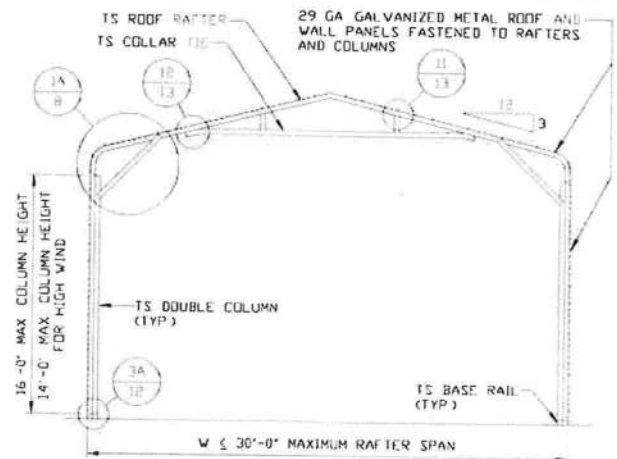
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



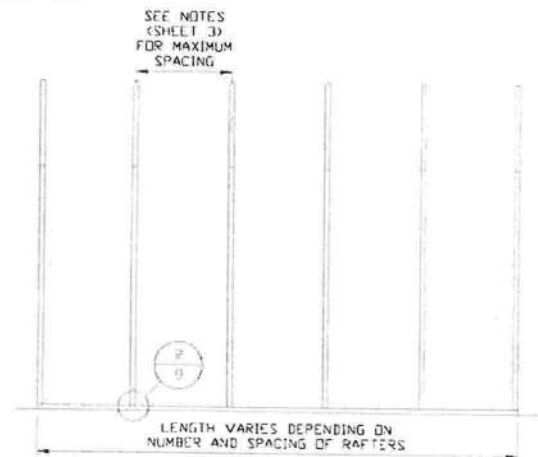
TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

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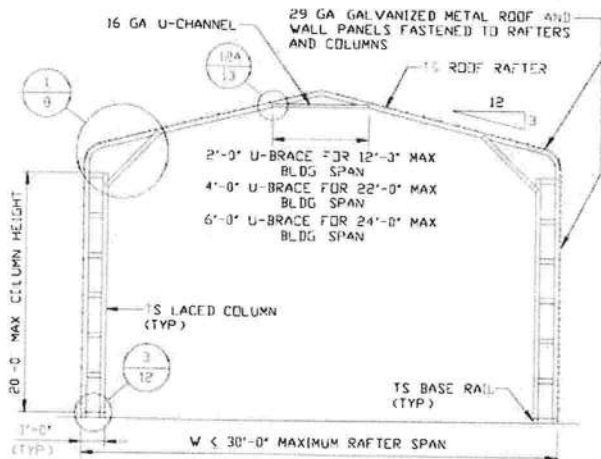
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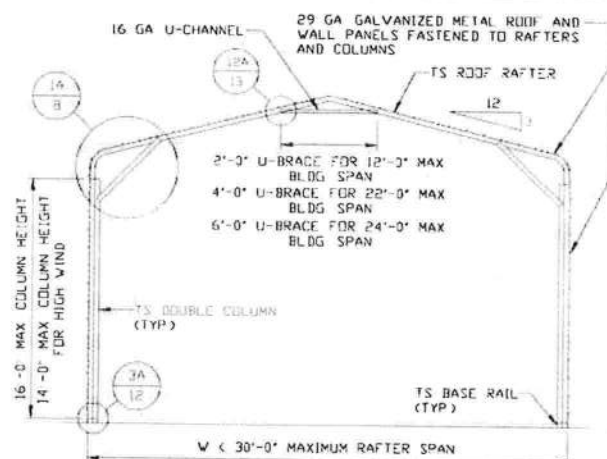
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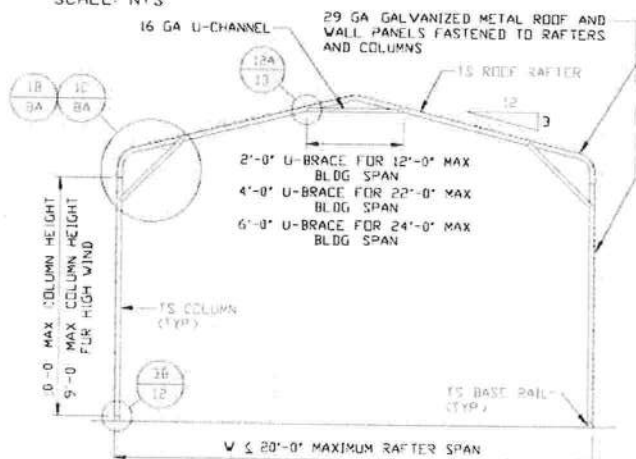
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



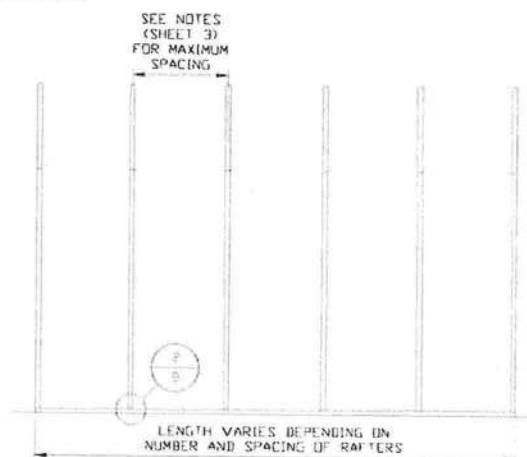
TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAMING SIDE SECTION

SCALE: NTS

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SHT. 7A

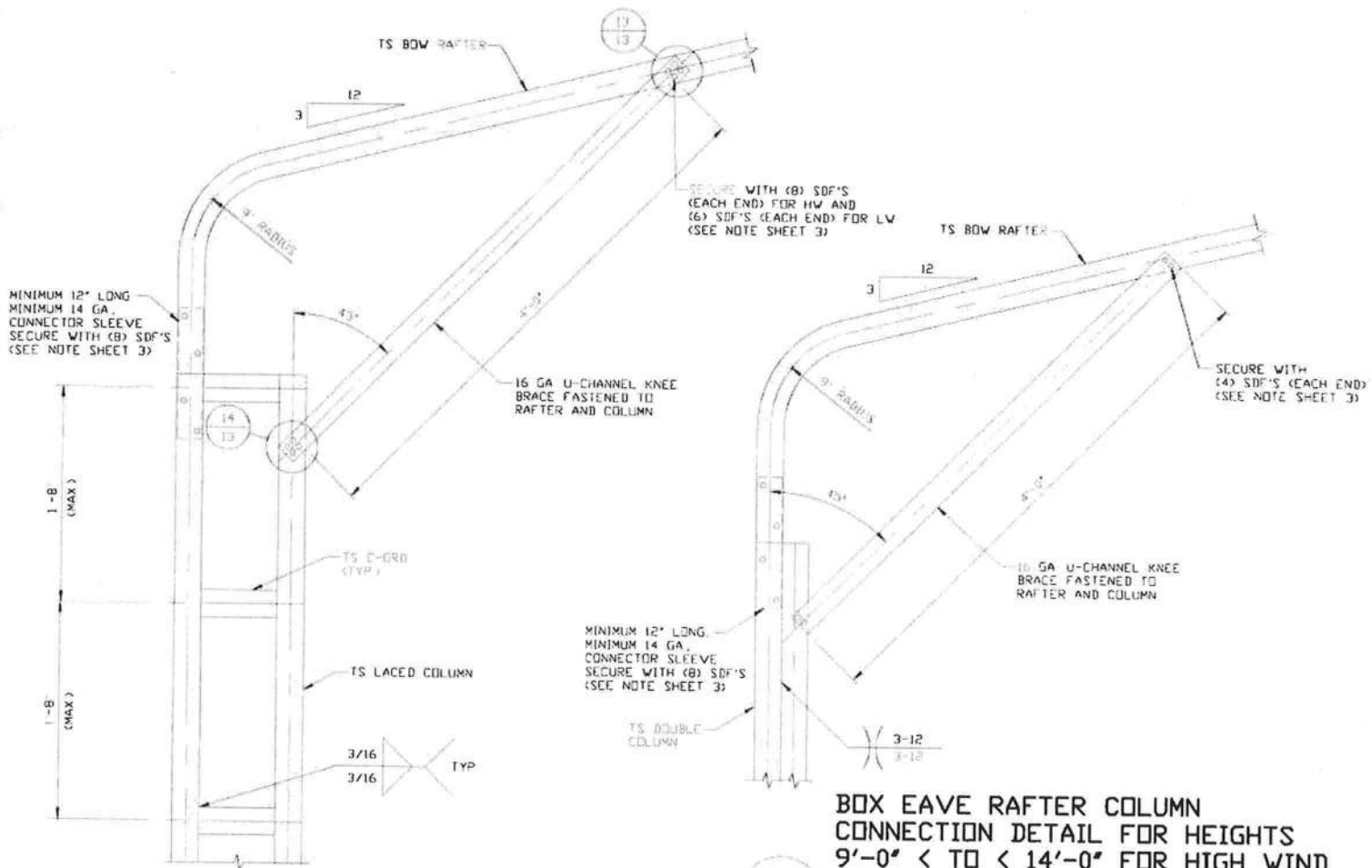
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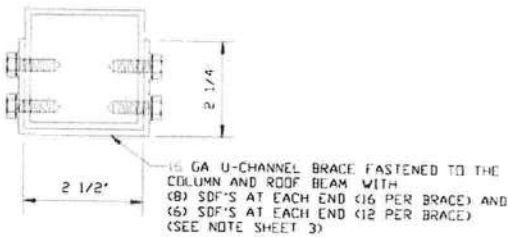
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 14'-0" < TO ≤ 20'-0" FOR HIGH WIND (16'-0" < TO ≤ 20'-0" FOR LOW WIND)

SCALE: NTS

1A

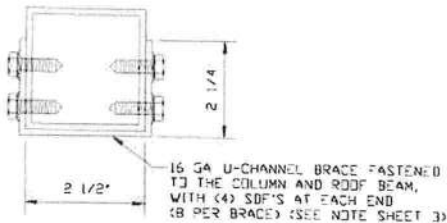
BOX EAVE RAFTER COLUMN CONNECTION DETAIL FOR HEIGHTS 9'-0" < TO ≤ 14'-0" FOR HIGH WIND (10'-0" < TO ≤ 16'-0" FOR LOW WIND)

SCALE: NTS



BRACE SECTION

SCALE: NTS



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 8

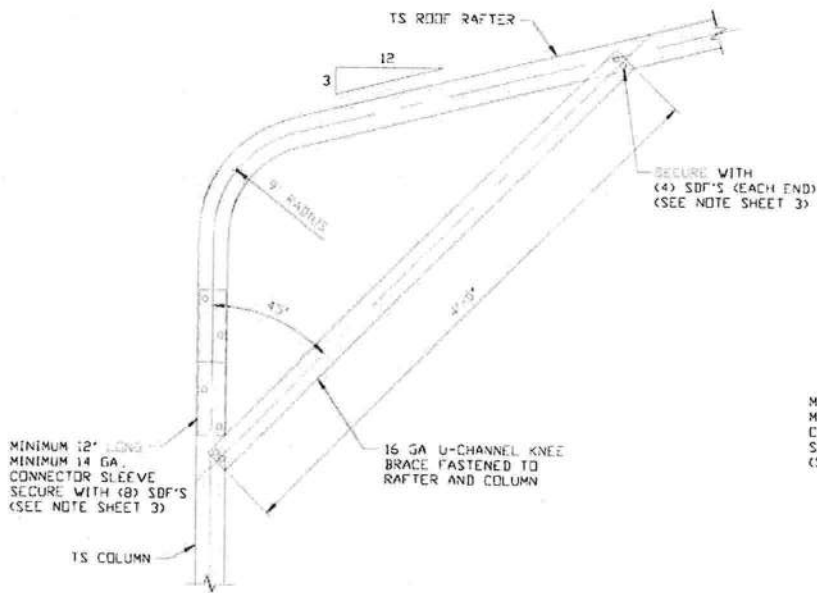
SCALE: NTS

DWG. NO: SK-3

JOB NO:
17270S/19118S/21194S

REV: 2

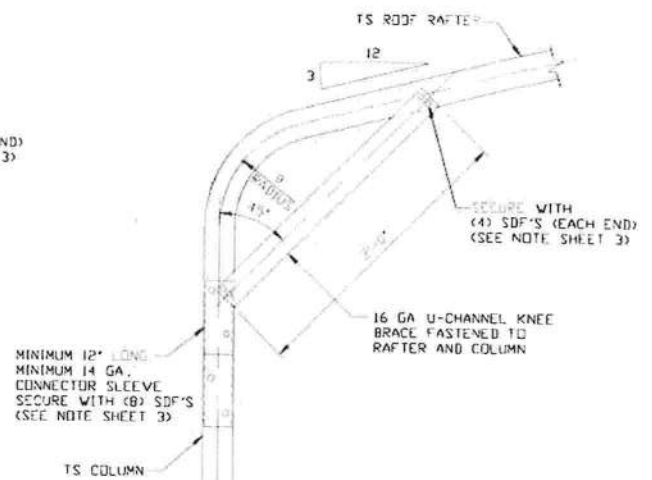
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**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR HEIGHTS
8'-0" < TO ≤ 9'-0" FOR HIGH WIND
(8'-0" < TO ≤ 10'-0" FOR LOW WIND)**

1B

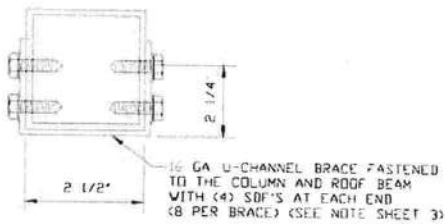
SCALE: NTS



**BOX EAVE RAFTER COLUMN
CONNECTION DETAIL FOR
HEIGHTS ≤ 8'-0"
(HIGH WIND AND LOW WIND)**

1C

SCALE: NTS



BRACE SECTION

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

**GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE**

DATE: 8-18-21

SHT. 8A

SCALE: NTS

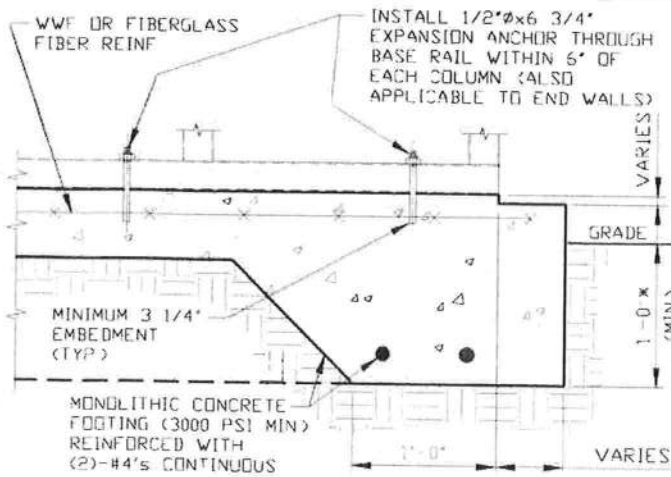
DWG. NO: SK-3

**JOB NO:
17270S/19118S/21194S**

REV: 2

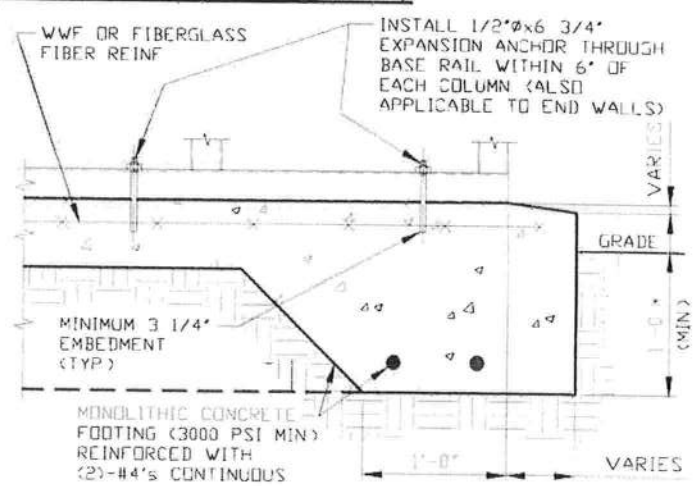
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OPTIONAL BASE RAIL ANCHORAGE (LOW WIND)



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

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:

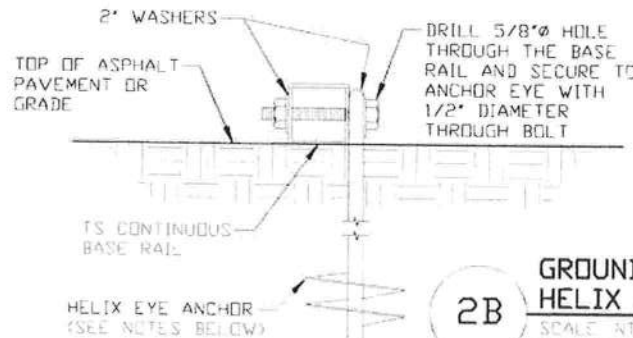
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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" 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 LOOSE 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)

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 9

SCALE: NTS

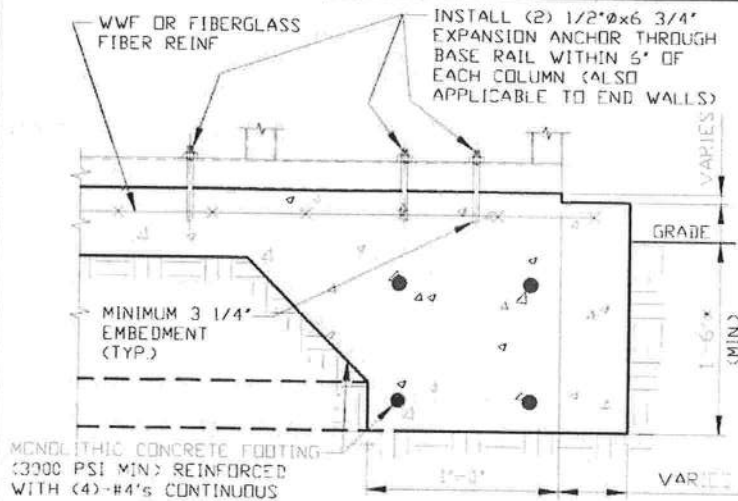
DWG. NO: SK-3

JOB NO:
17270S/19118S/21194S

REV: 2

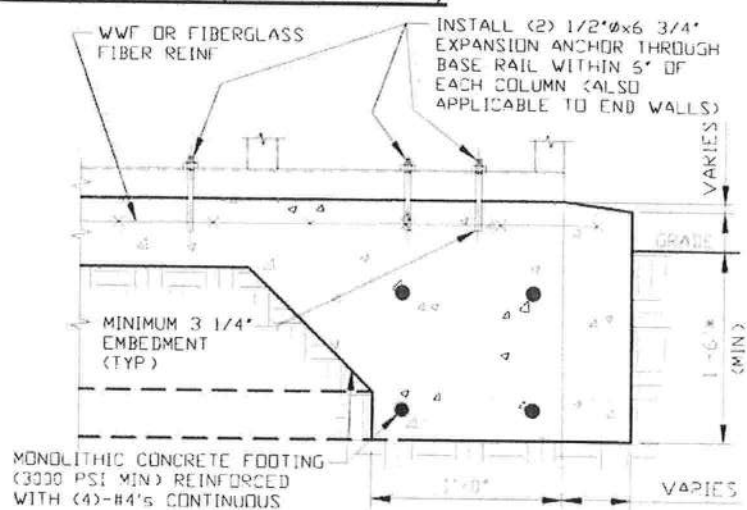
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OPTIONAL BASE RAIL ANCHORAGE (HIGH WIND)



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

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:

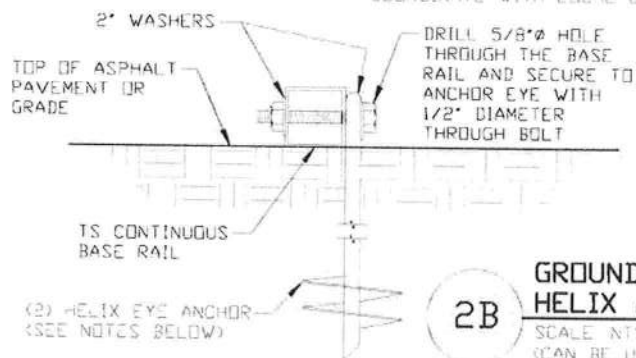
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT

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)

MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 9A

SCALE: NTS

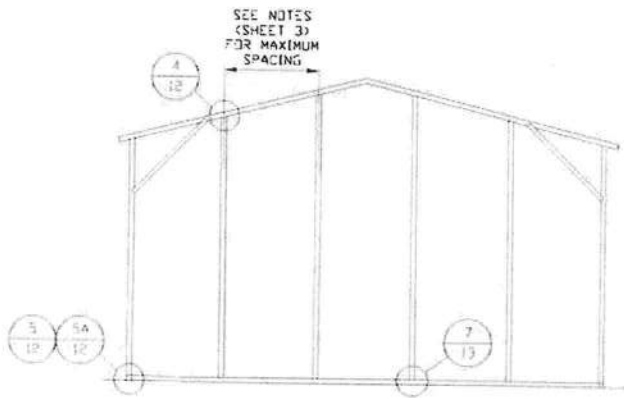
DWG. NO: SK-3

JOB NO: 17270S/19118S/21194S

REV: 2

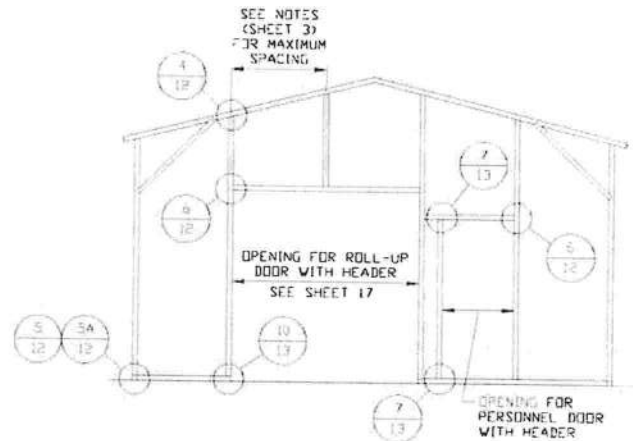
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BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



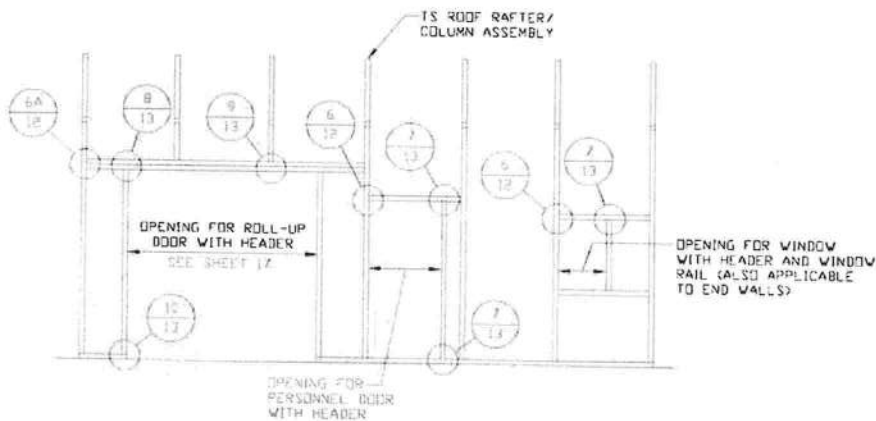
**TYPICAL BOX EAVE RAFTER
END WALL FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER END
WALL OPENINGS FRAMING SECTION**

SCALE: NTS



**TYPICAL BOX EAVE RAFTER
SIDE WALL OPENINGS FRAMING SECTION**

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SCALE: NTS

SHT. 10

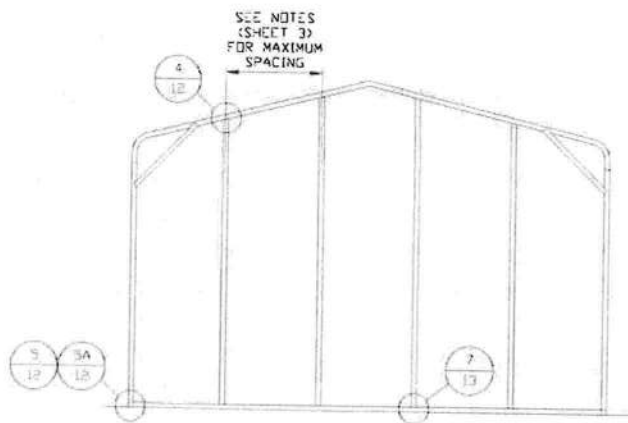
DWG. NO: SK-3

JOB NO:
17270S/19118S/21194S

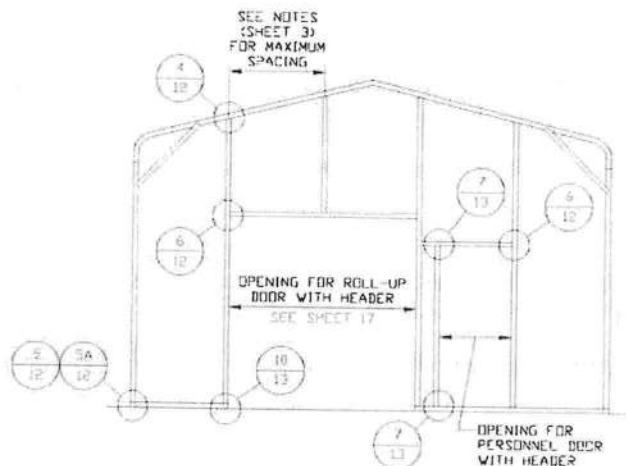
REV: 2

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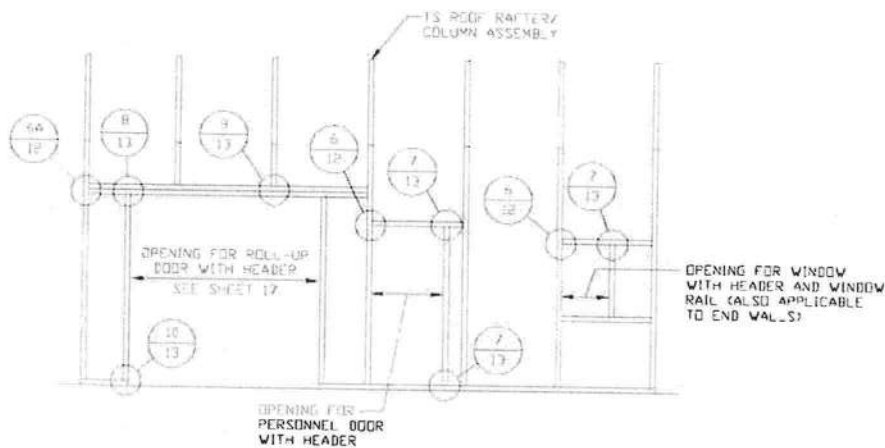
BOW RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



**TYPICAL BOW RAFTER
END WALL FRAMING SECTION**
SCALE: NTS



**TYPICAL BOW RAFTER END
WALL OPENINGS FRAMING SECTION**
SCALE: NTS



**TYPICAL BOW RAFTER SIDE
WALL OPENINGS FRAMING SECTION**
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SCALE: NTS

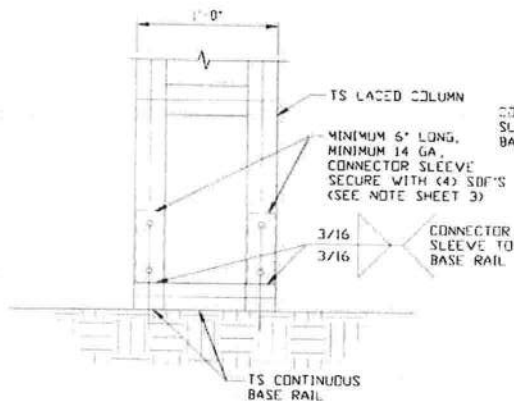
DWG. NO: SK-3

JOB NO:
17270S/19110S/21194S

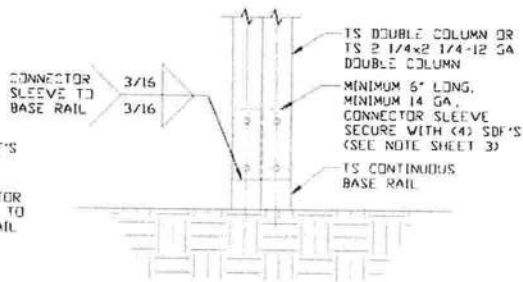
REV: 2

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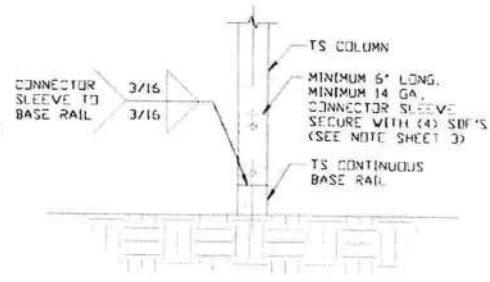
CONNECTION DETAILS



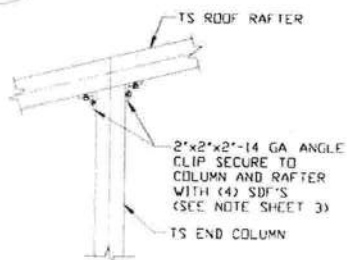
3
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



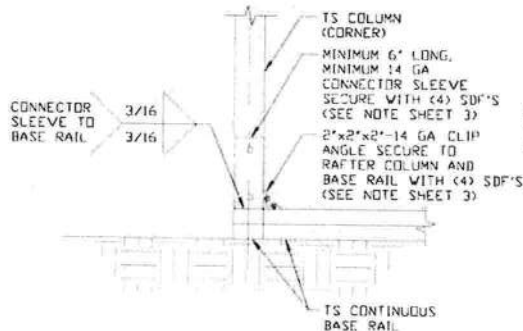
3A
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



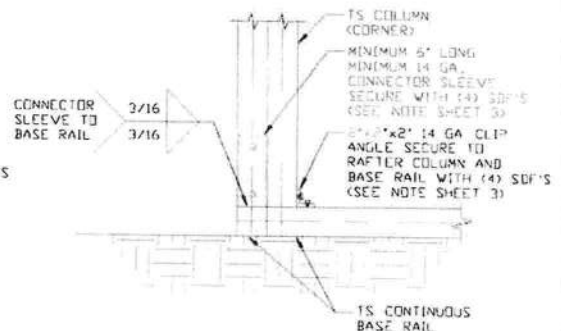
3B
**RAFTER COLUMN/
BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



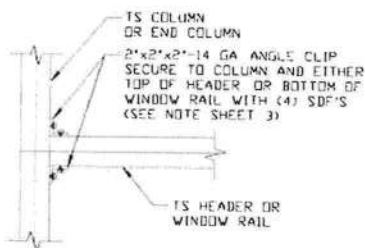
4
**END COLUMN/RAFTER
CONNECTION DETAIL**
SCALE: NTS



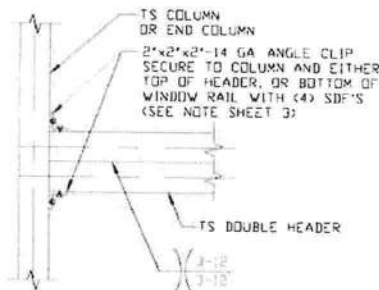
5
**END COLUMN/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



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



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



6A
**COLUMN OR WINDOW
RAIL TO POST
CONNECTION DETAIL**
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 12

SCALE: NTS

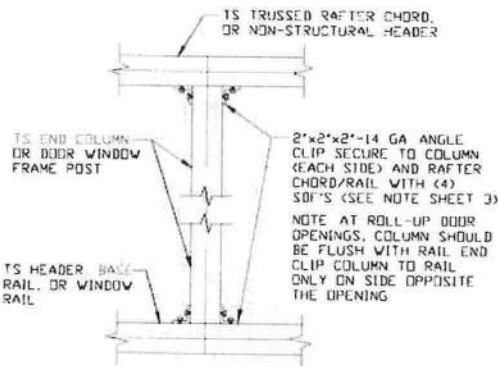
DWG. NO: SK-3

JOB NO:
17270S/1911BS/21194S

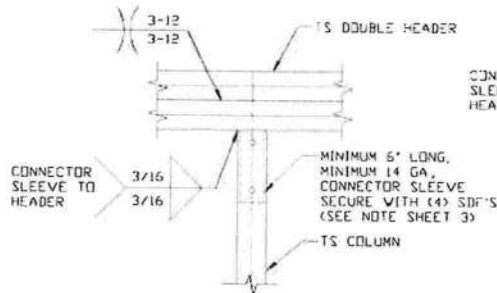
REV: 2

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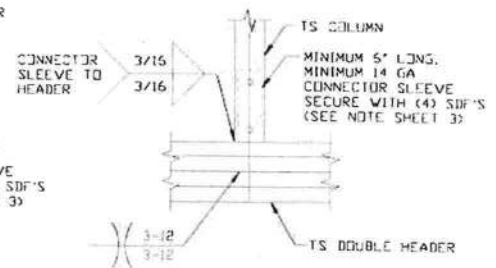
CONNECTION DETAILS



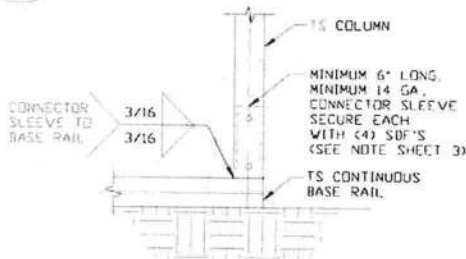
7 COLUMN TO HEADER, BASE RAIL OR WINDOW RAIL CONNECTION DETAIL
SCALE: NTS



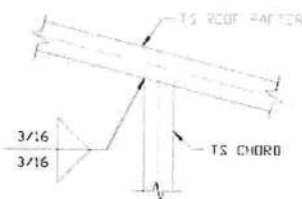
8 HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



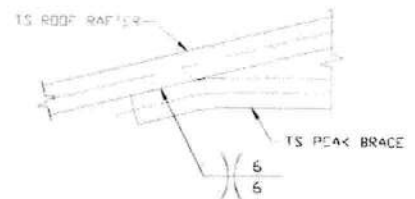
9 HEADER/COLUMN CONNECTION DETAIL
SCALE: NTS



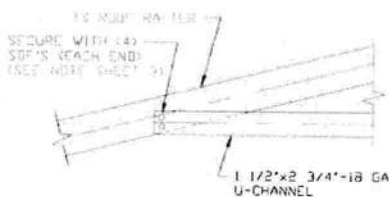
10 COLUMN/BASE RAIL CONNECTION DETAIL
SCALE: NTS



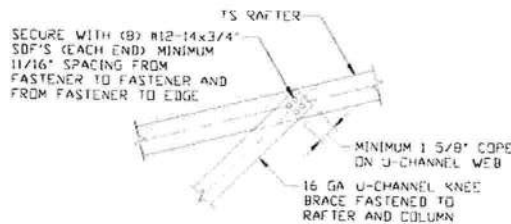
11 RAFTER TO CHORD CONNECTION DETAIL
SCALE: NTS



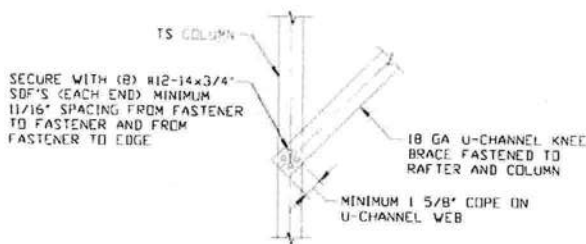
12 PEAK BRACE CONNECTION DETAIL
SCALE: NTS



12A ROOF RAFTER TIE CONNECTION DETAIL
SCALE: NTS



13 U-CHANNEL TO RAFTER CONNECTION DETAIL
SCALE: NTS



14 U-CHANNEL TO COLUMN CONNECTION DETAIL
SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 13

SCALE: NTS

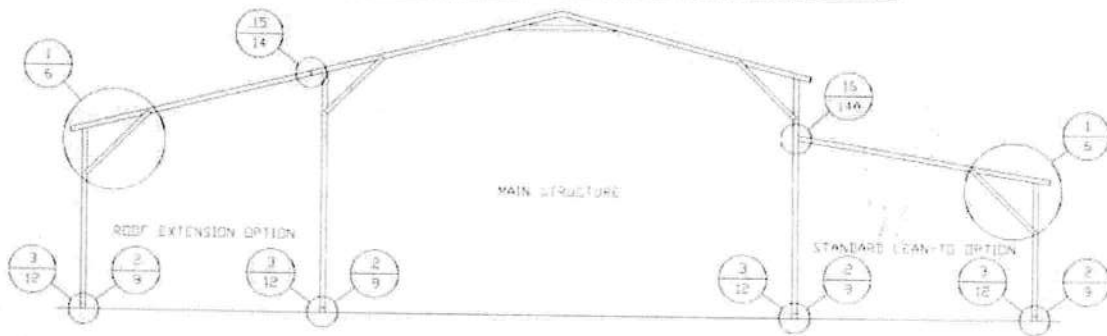
DWG. NO: SK-3

JOB NO:
17270S/19118S/21194S

REV: 2

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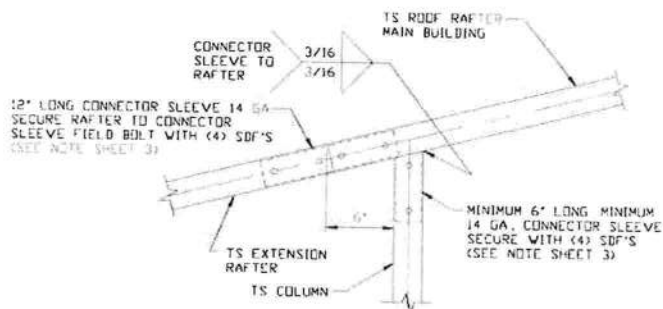
BOX EAVE RAFTER LEAN-TO OPTIONS



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

SCALE: NTS

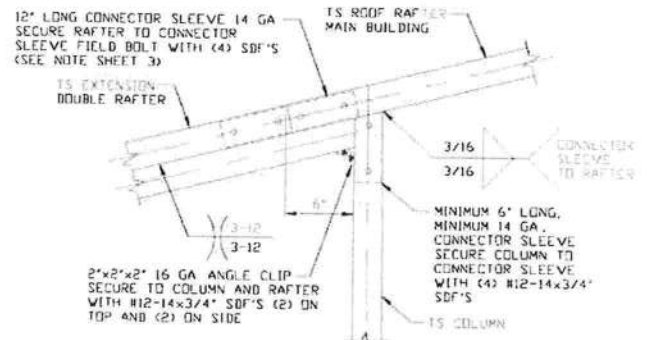
MAXIMUM STANDARD LEAN-TO WIDTH FOR SINGLE RAFTER IS 12'-0"
 MAXIMUM STANDARD LEAN-TO WIDTH FOR DOUBLE RAFTER IS 20'-0"
 MAXIMUM STANDARD LEAN-TO WIDTH FOR LACED RAFTER IS 24'-0"



**SIDE EXTENSION RAFTER/
COLUMN DETAIL FOR
RAFTER SPANS $\leq 12'-0"$**

15

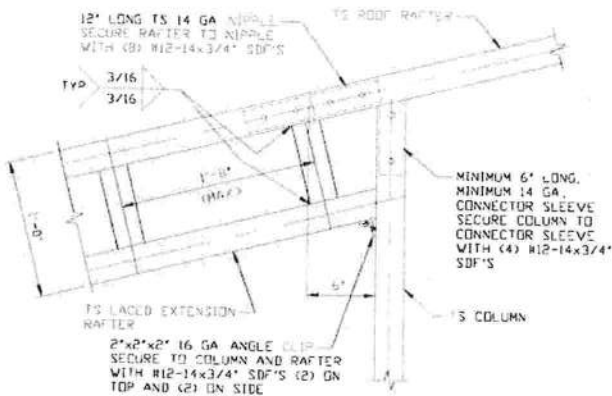
SCALE: NTS



**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR RAFTER SPANS
12'-0' < TO $\leq 20'-0"$**

15A

SCALE: NTS



**SIDE EXTENSION RAFTER/COLUMN
DETAIL FOR RAFTER SPANS
20'-0' < TO $\leq 24'-0"$**

15B

SCALE: NTS

**MOORE AND ASSOCIATES
ENGINEERING AND CONSULTING, INC.**

DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SCALE: NTS

SHT. 14

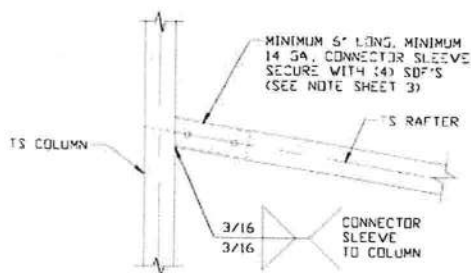
DWG. NO: SK-3

JOB NO:
17270S/19110S/21194S

REV: 2

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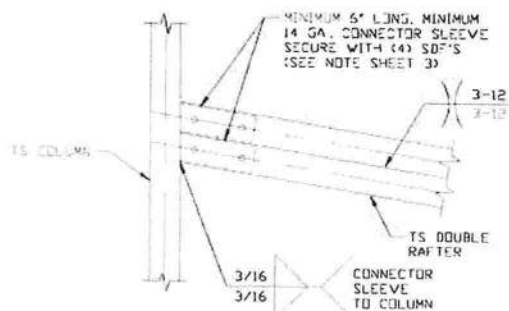
BOX EAVE RAFTER LEAN-TO OPTIONS



16

LEAN-TO RAFTER TO RAFTER
COLUMN CONNECTION DETAIL
FOR RAFTER SPANS $\leq 12'-0''$

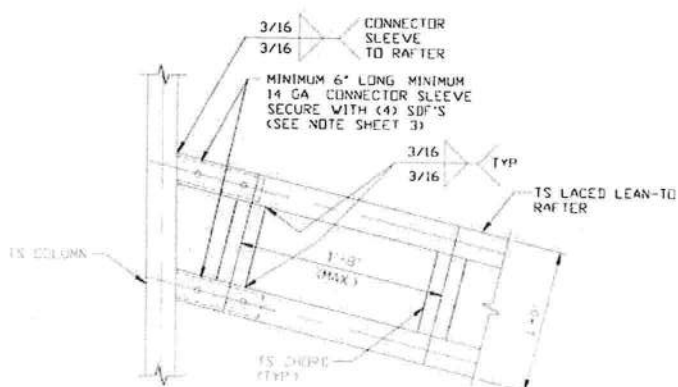
SCALE: NTS



16A

LEAN-TO RAFTER TO RAFTER COLUMN
CONNECTION DETAIL FOR RAFTER
SPANS $12'-0'' < \text{TO} \leq 24'-0''$

SCALE: NTS



16B

LEAN-TO RAFTER TO RAFTER COLUMN
CONNECTION DETAIL FOR RAFTER
SPANS $12'-0'' < \text{TO} \leq 24'-0''$

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 14A

SCALE: NTS

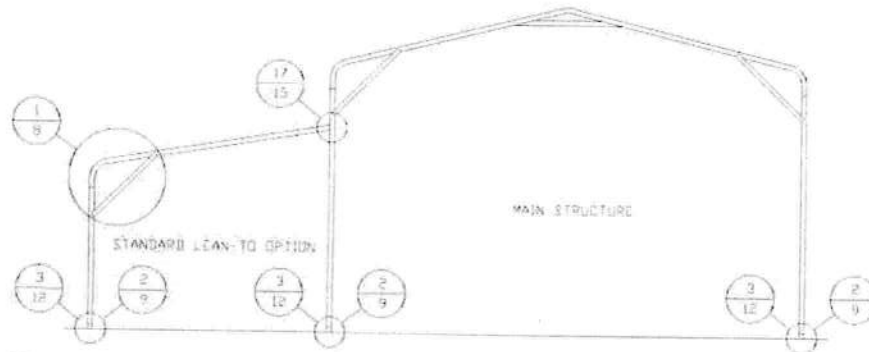
DWG. NO: SK-3

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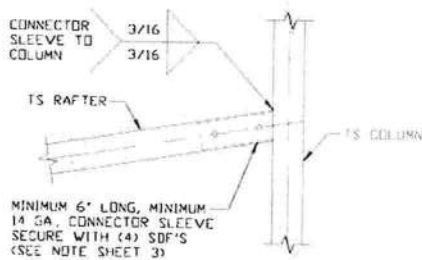
BOW RAFTER LEAN-TO OPTION



TYPICAL BOW RAFTER LEAN-TO OPTION FRAMING SECTION

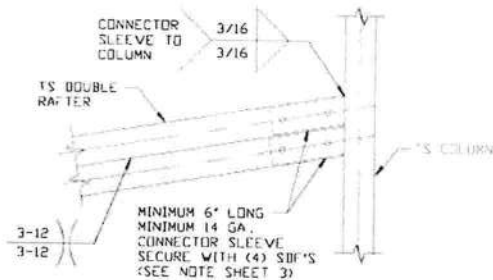
SCALE: NTS

MAXIMUM STANDARD LEAN-TO WIDTH FOR SINGLE RAFTER IS 12'-0"
 MAXIMUM STANDARD LEAN-TO WIDTH FOR DOUBLE RAFTER IS 20'-0"
 MAXIMUM STANDARD LEAN-TO WIDTH FOR LACED RAFTER IS 24'-0"



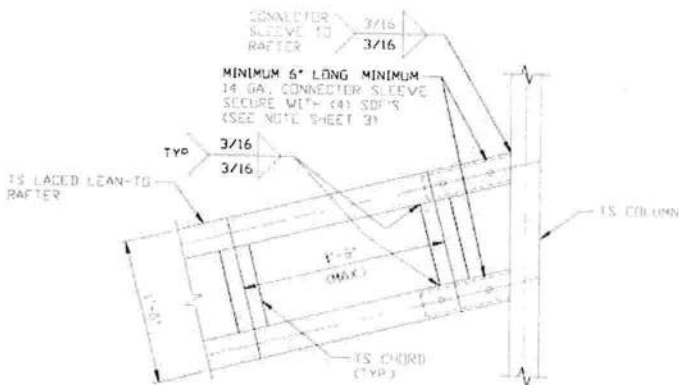
17 LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $\leq 12'-0"$

SCALE: NTS



17A LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $12'-0" < \text{TO} \leq 20'-0"$

SCALE: NTS



17B LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS $20'-0" < \text{TO} \leq 24'-0"$

SCALE: NTS

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 1086 GENE McQUEEN ROAD
 MOULTRIE, GA 31788
 30'-0"x20'-0" ENCLOSED STRUCTURE

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SHT. 15

SCALE: NTS

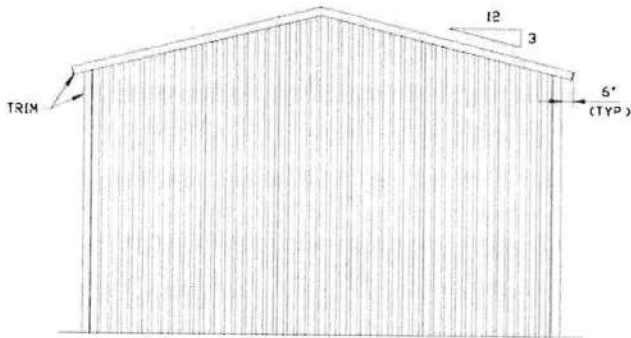
DWG. NO: SK-3

JOB NO:
 17270S/19118S/21194S

REV: 2

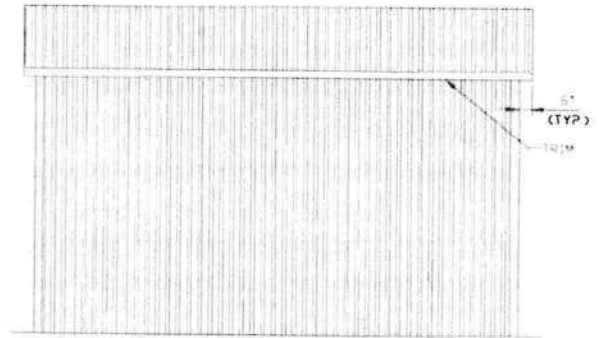
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



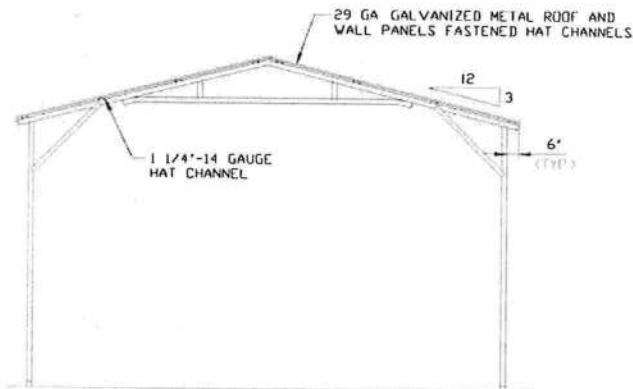
**TYPICAL END ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



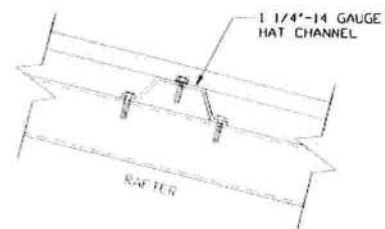
**TYPICAL SIDE ELEVATION
VERTICAL ROOF/SIDING**

SCALE: NTS



**TYPICAL SECTION VERTICAL
ROOF/SIDING OPTION**

SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 16

SCALE: NTS

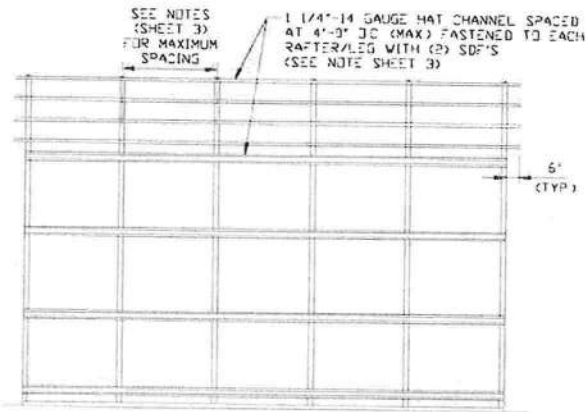
DWG. NO: SK-3

**JOB NO:
17270S/19118S/21194S**

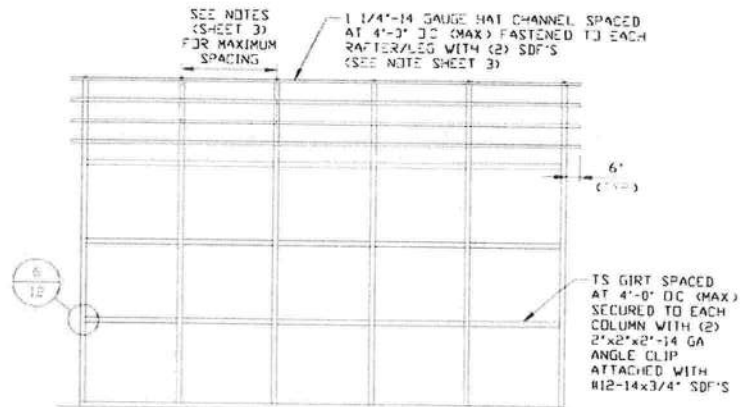
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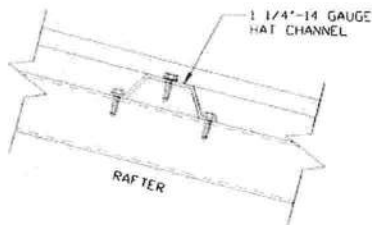
BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



**TYPICAL FRAMING SECTION VERTICAL ROOF/
SIDING OPTION WITH HAT CHANNEL GIRTS**
SCALE: NTS



**TYPICAL FRAMING SECTION VERTICAL ROOF/
SIDING OPTION WITH TS GIRTS**
SCALE: NTS



PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS)
SCALE: NTS

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PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
1086 GENE McQUEEN ROAD
MOULTRIE, GA 31788
30'-0" x 20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SCALE: NTS

SHT. 16A

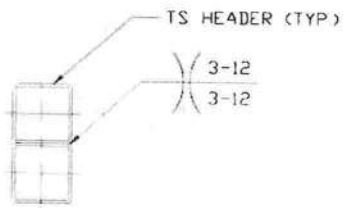
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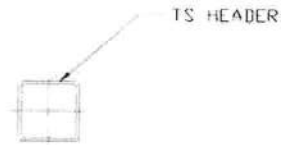
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SIDE WALL HEADER OPTIONS

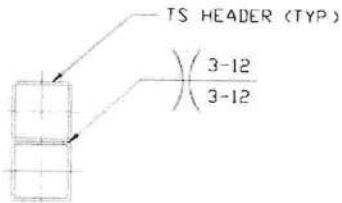


HEADER DETAIL FOR
 $10'-0" < \text{LENGTHS} \leq 16'-0"$
 SCALE: NTS

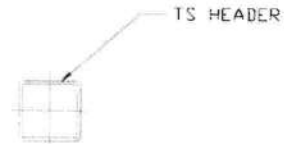


HEADER DETAIL FOR
 $\text{LENGTHS} \leq 10'-0"$
 SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR
 $14'-0" < \text{LENGTHS} \leq 16'-0"$
 SCALE: NTS



HEADER DETAIL FOR
 $\text{LENGTHS} \leq 14'-0"$
 SCALE: NTS

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PROJECT MGR: WSM

CLIENT: GA SOUTHERN

GA SOUTHERN STEEL BUILDINGS, INC.
 1086 GENE McQUEEN ROAD
 MOULTRIE, GA 31788
 30'-0"x20'-0" ENCLOSED STRUCTURE

DATE: 8-18-21

SHT. 17

SCALE: NTS

DWG. NO: SK-3

JOB NO:
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