



STRUCTURAL DESIGN **ENCLOSED BUILDING**

**MAXIMUM 32'-0" - 60'-0" WIDE X 20'-0" EAVE HEIGHT-
BOX EAVE FRAME**

12 February 2021

Revision 2

M&A Project No. 18195S/20019S/20324S

Prepared for:

Steel Building Structures, Inc.

P.O. Box 1287

Mt. Airy, NC 27030

Prepared by:

**Moore and Associates Engineering
and Consulting, Inc.**








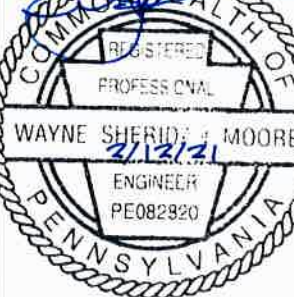


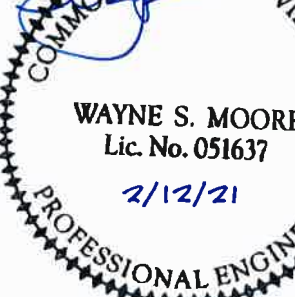





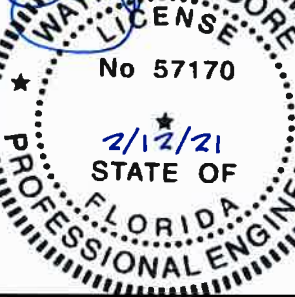
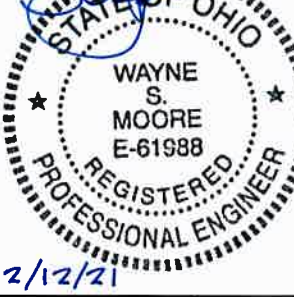
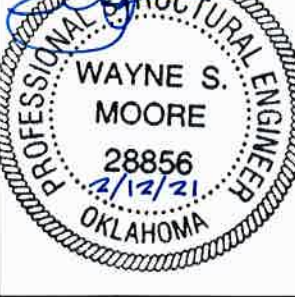
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CHECKED BY: PDH

PROJECT MGR: WSM

CLIENT: SBSI

STEEL BUILDING AND STRUCTURES INC.
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MOUNT AIRY, NC 27030
32'-0" x 60'-0" x 20'-0" ENCLOSED BUILDING

DATE: 2-12-21


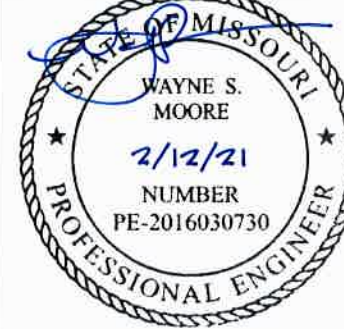


SHT. 1

SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

REV: 2

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|---|--|----------------------------------|--|
|  | 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 <u>6/6/22</u> | | |
|  | | | |
|  | | | |
|  | <p>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.</p> | | |
| | | | |
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32'-0"-60'-0"x20'-0" ENCLOSED BUILDING

DATE: 2-12-21

SCALE: NTS

DWG. NO: SK-3

**JOB NO: 18195S/
20019S/20324S**

SHT. 2

REV: 2

INSTALLATION NOTES AND SPECIFICATIONS

1. DESIGN IS FOR MAXIMUM 32'-0"-60'-0" WIDE x 20'-0" EAVE HEIGHT ENCLOSED STORAGE 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 = 15 PSF
 - B) ROOF LIVE LOAD = 20 PSF
 - C) GROUND SNOW LOAD = 35 PSFNOTE: (UNBALANCED SNOW LOADS DUE TO DRIFTING HAVE NOT BEEN EVALUATED)
4. 3-SECOND GUST ULTIMATE WIND SPEED = 105 TO 155 MPH (NOMINAL WIND SPEED = 81 TO 120 MPH).
5. MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 5.0 FEET; 4.0 FEET FOR BUILDING WIDTH 52'-0" < W ≤ 60'-0" (EXP. C) (UNLESS NOTED OTHERWISE).
6. END WALL COLUMNS (POSTS) ARE SIMILAR TO SIDE WALL POSTS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
7. LOW HAZARD RISK CATEGORY I/II.
8. WIND EXPOSURE CATEGORY B/C.
9. SPECIFICATIONS APPLICABLE TO 29 GAUGE METAL PANELS FASTENED DIRECTLY TO 2 1/2" x 2 1/2" - 14 GAUGE STEEL TUBE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
10. AVERAGE FASTENER SPACING ON-CENTERS ALONG RAFTERS OR PURLINS, AND POSTS (INTERIOR AND EDGE) = 8 INCHES.
11. FASTENERS CONSIST OF 1/4"x3/4" SELF-DRILLING FASTENERS WITH CONTROL SEAL WASHER SPECIFICATIONS APPLICABLE ONLY FOR MEAN ROOF HEIGHT OF 20 FEET OR LESS, AND ROOF SLOPES OF 14° (3:12 PITCH). SPACING REQUIREMENTS FOR OTHER ROOF HEIGHTS AND/OR SLOPES MAY VARY. ROOF SLOPES LESS THAN 3:12 REQUIRE USE OF LAP JOINT SEALANT.
12. ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6" OF EACH COLUMN (POST) ALONG SIDES AND ENDS.
13. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:
SOIL SITE CLASS = D
RISK CATEGORY I/II
R = 3.25
S_{DS} = 2.039 g
S_{DI} = 1.258 g
I_E = 1.0
V = C_SW
14. WINDOW AND DOOR PRESSURE VALUES ARE APPLICABLE TO THE STATE OF FLORIDA.
15. MAXIMUM THRESHOLD HEIGHT IS ≤ 1/2" FOR PERSONNEL DOORS USED AS MEANS OF EGRESS.

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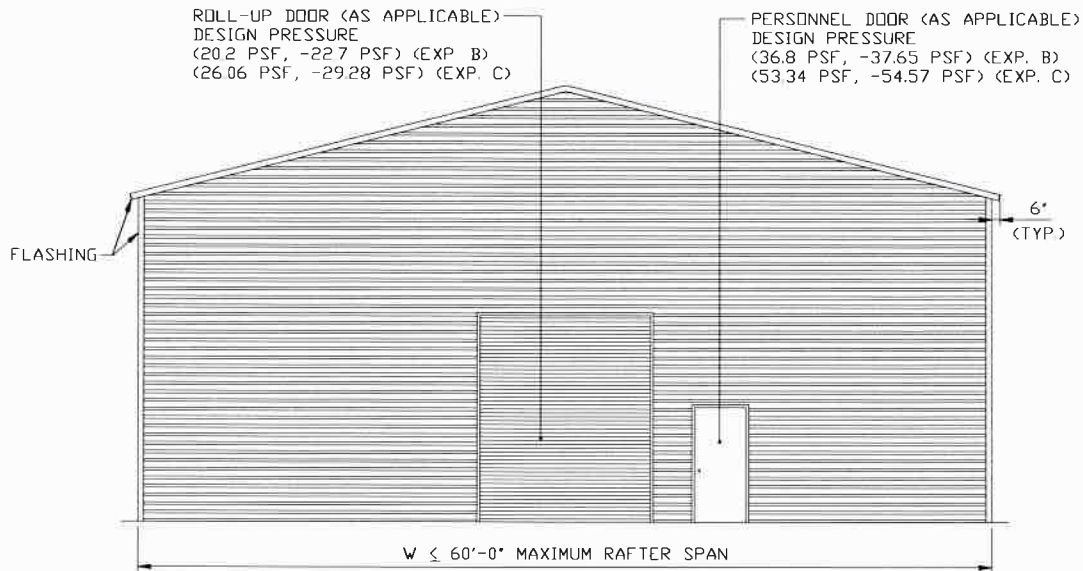
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TYPICAL END ELEVATION-HORIZONTAL ROOF

SCALE: NTS

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SHT. 4

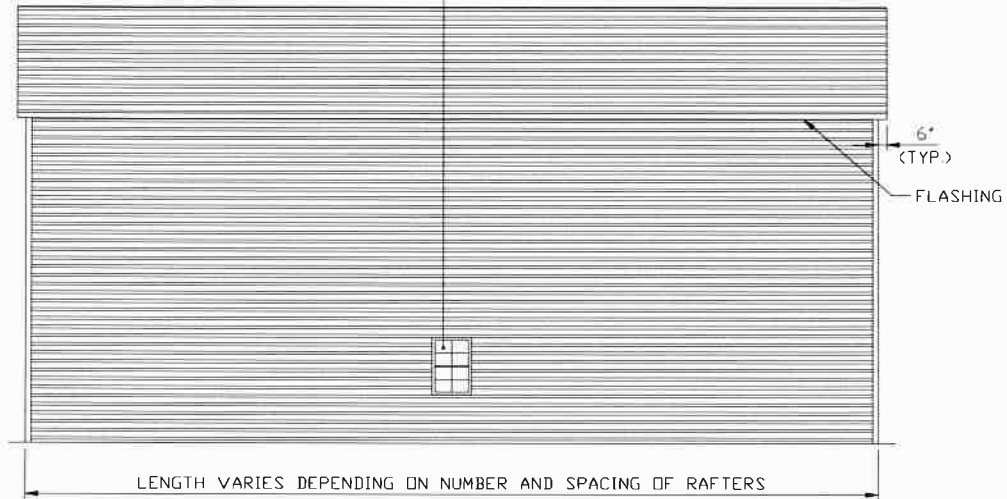
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WINDOW (AS APPLICABLE)
 DESIGN PRESSURE
 (38.54 PSF, -39.25 PSF) (EXP. B)
 (55.86 PSF, -56.89 PSF) (EXP. C)



TYPICAL SIDE ELEVATION-HORIZONTAL ROOF
 SCALE: NTS

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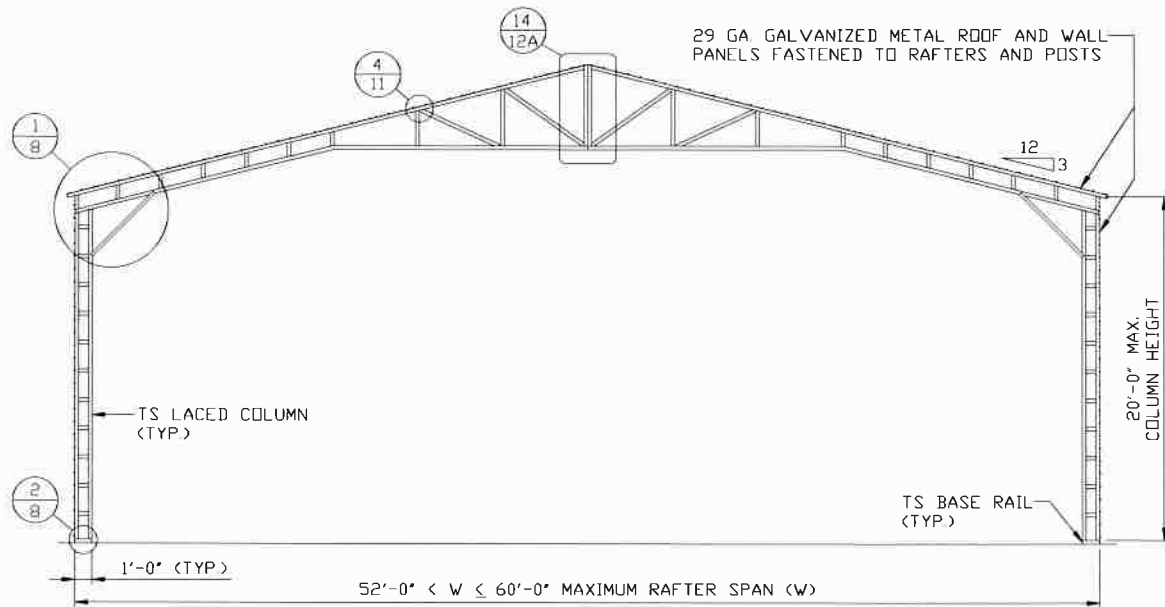
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REV: 2

60X EXPOSURE B & C



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS

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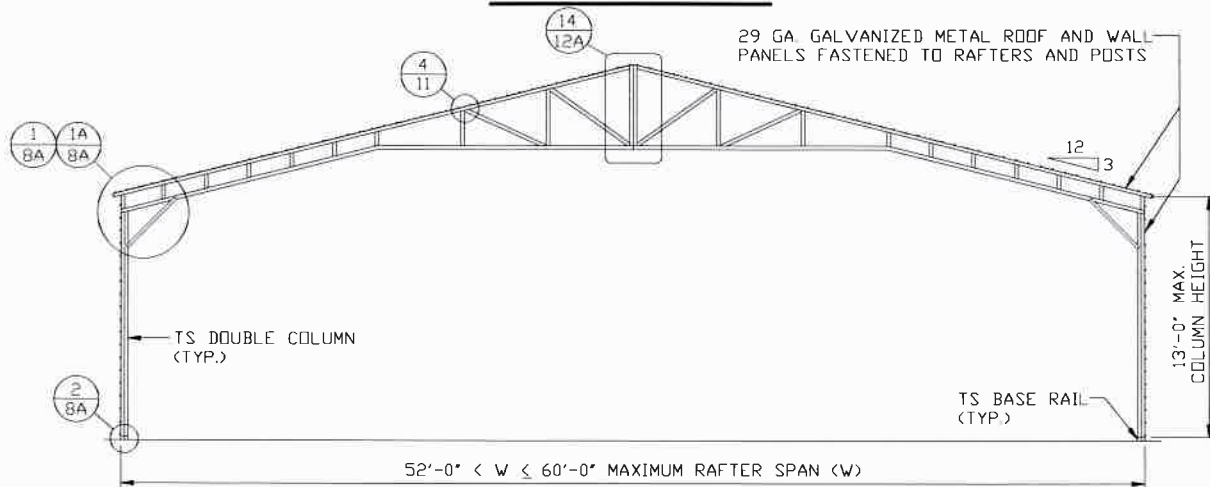
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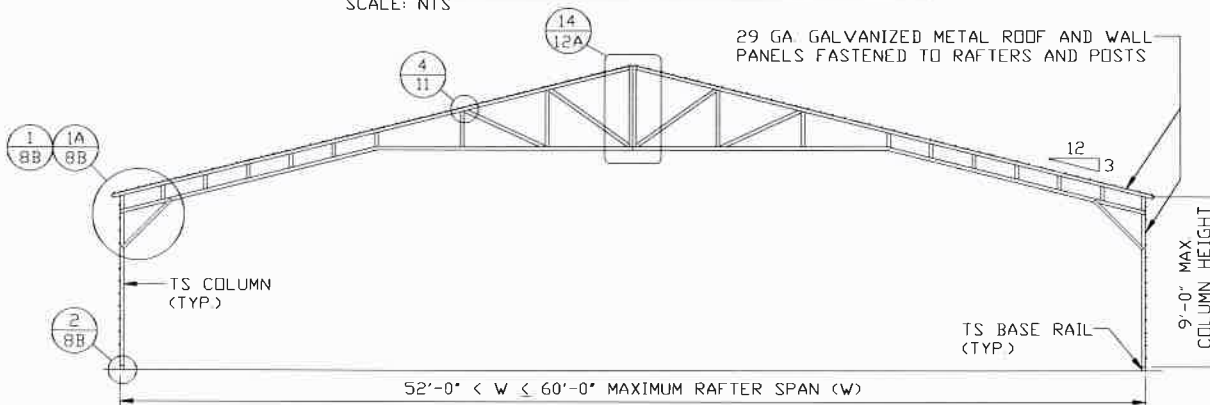
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60X EXPOSURE B



TYPICAL RAFTER/COLUMN FRAME SECTION

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TYPICAL RAFTER/COLUMN FRAME SECTION

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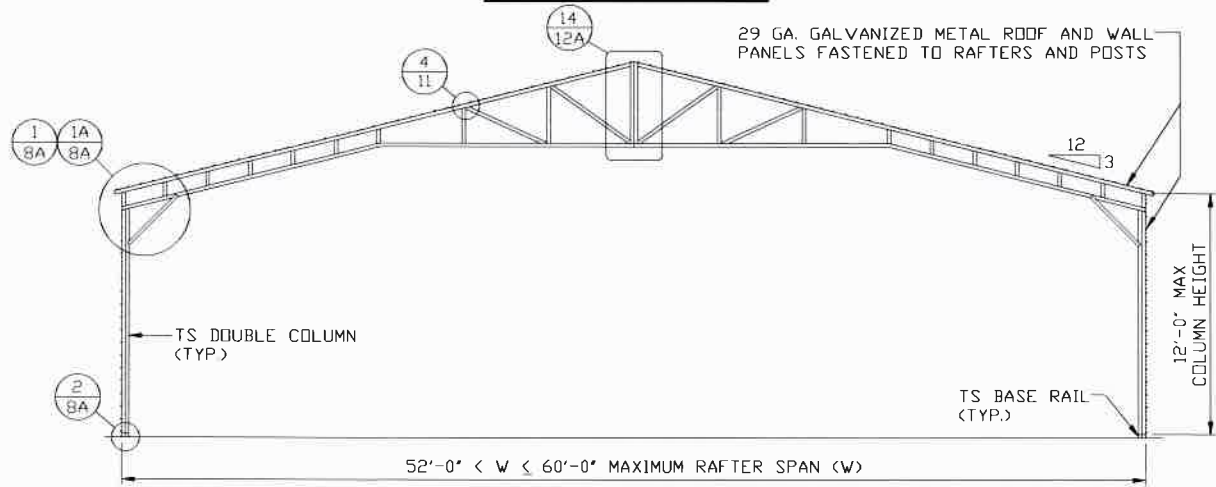
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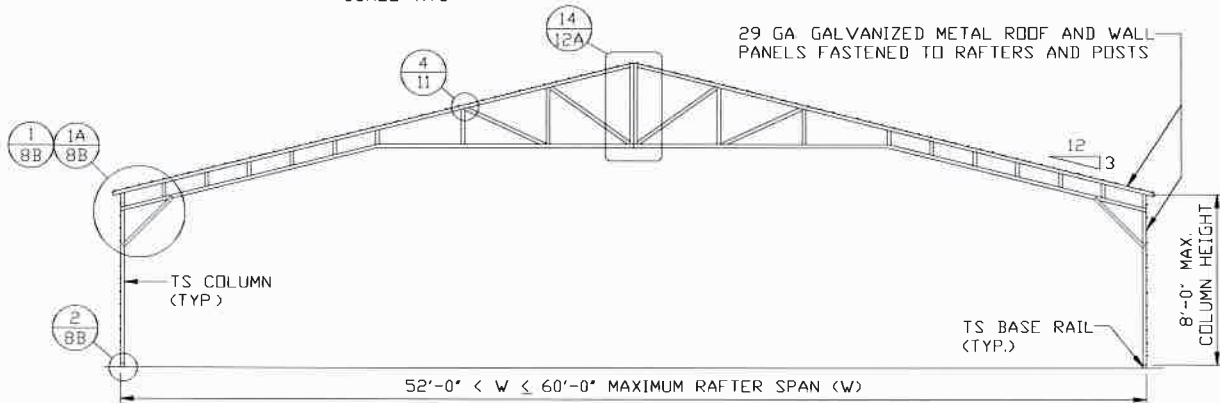
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60X EXPOSURE C



TYPICAL RAFTER/COLUMN FRAME SECTION

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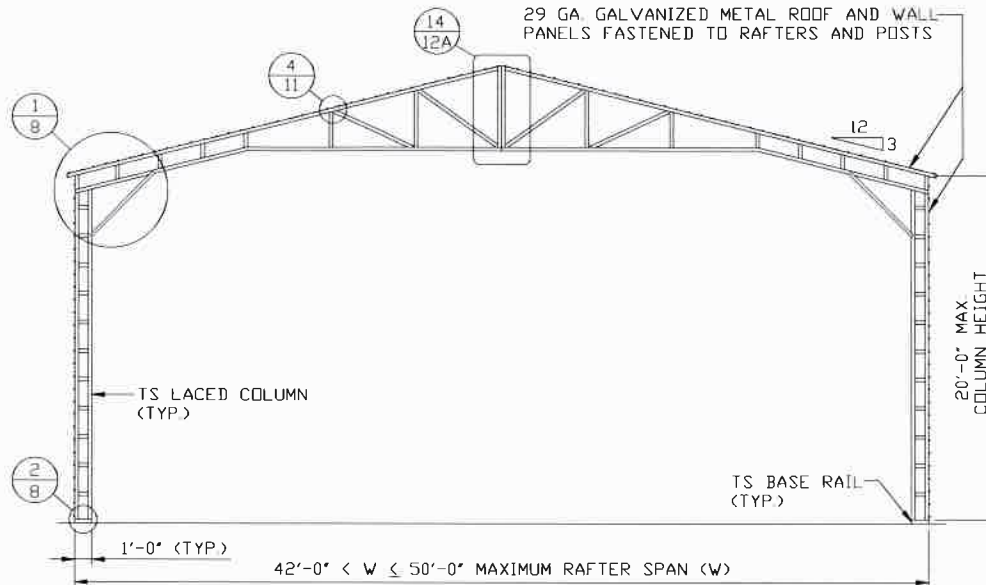
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50X EXPOSURE B & C



TYPICAL RAFTER/COLUMN FRAME SECTION

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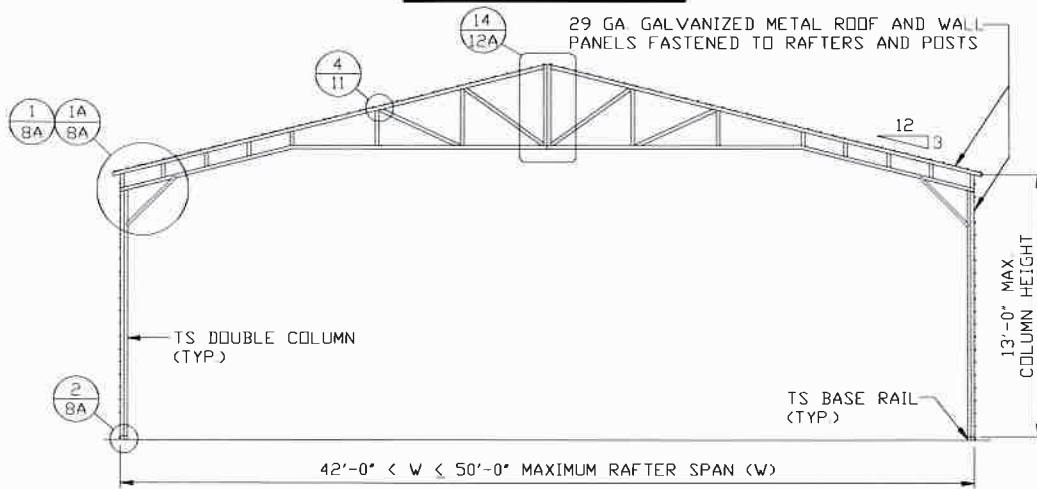
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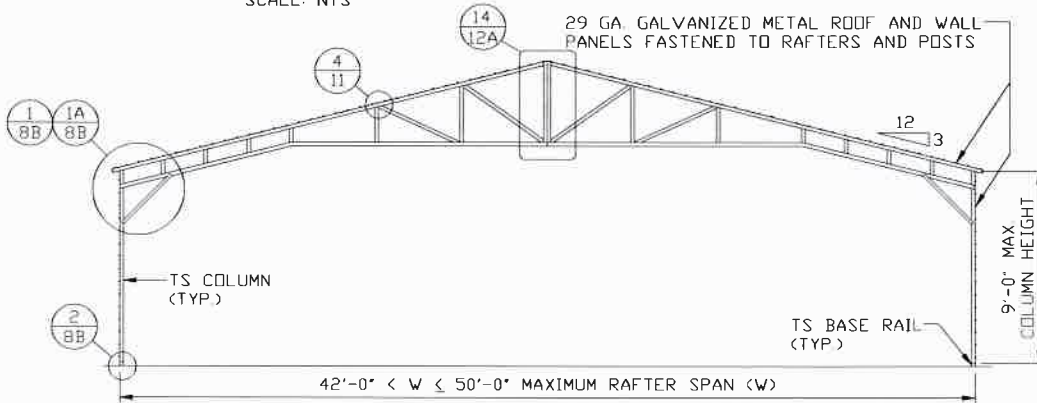
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50X EXPOSURE B



TYPICAL RAFTER/COLUMN FRAME SECTION

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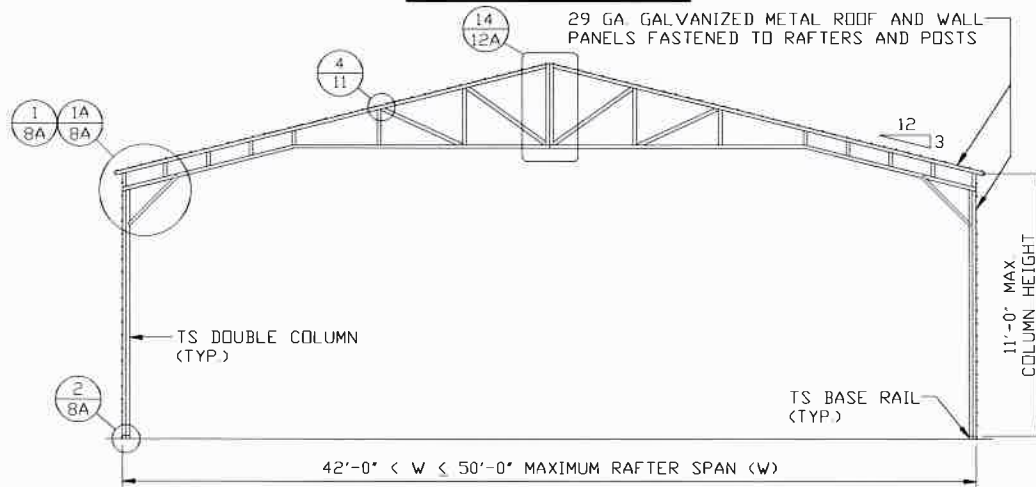
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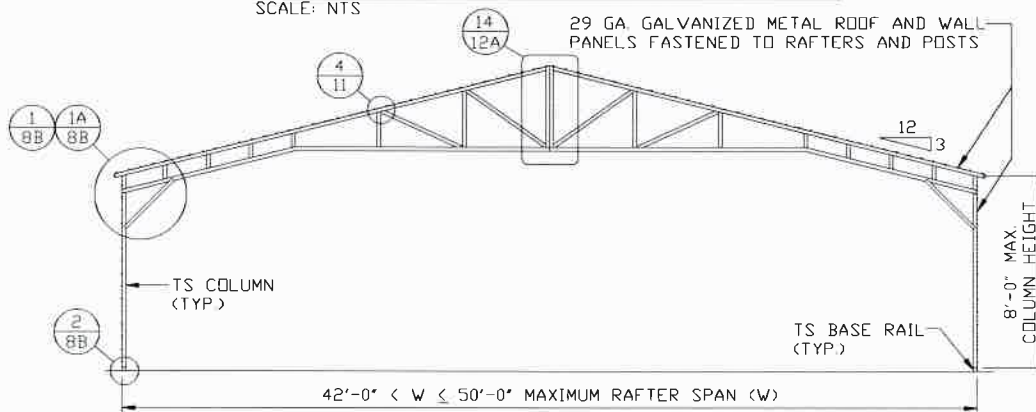
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50X EXPOSURE C



TYPICAL RAFTER/COLUMN FRAME SECTION

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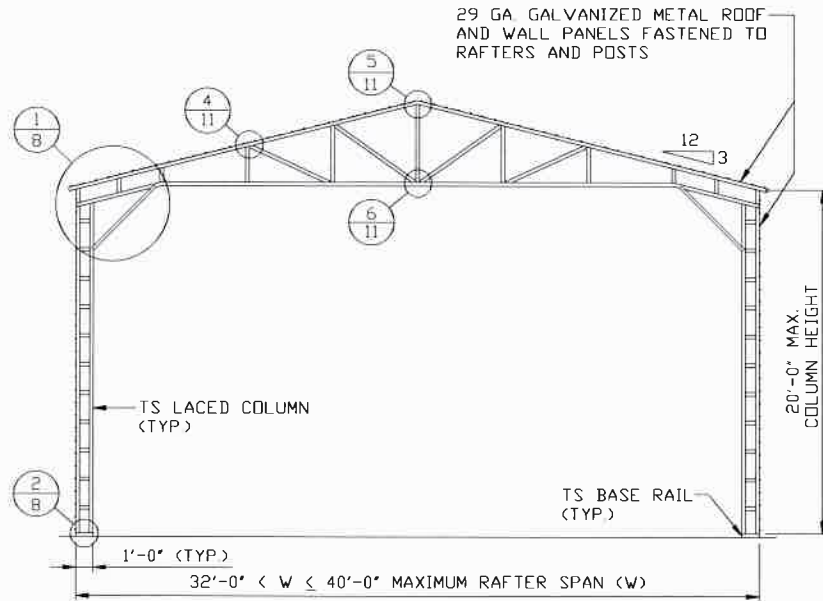
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40X EXPOSURE B & C



TYPICAL RAFTER/COLUMN FRAME SECTION

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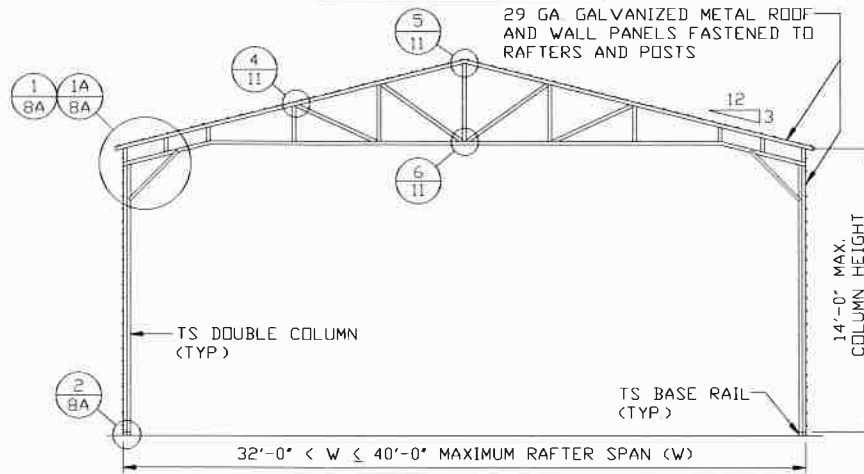
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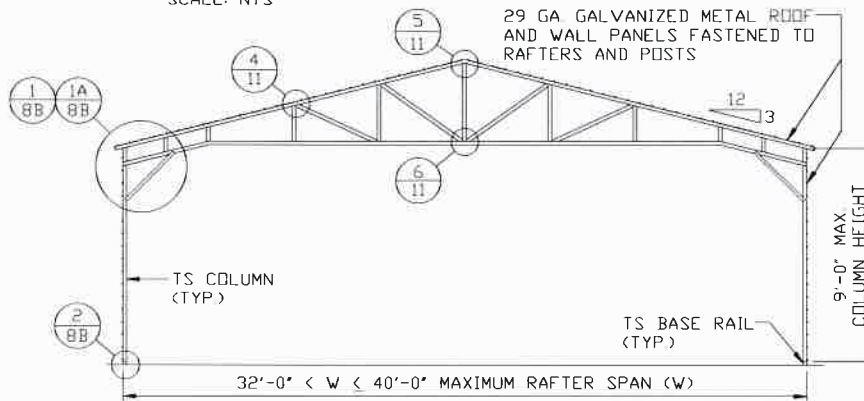
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40X EXPOSURE B



TYPICAL RAFTER/COLUMN FRAME SECTION

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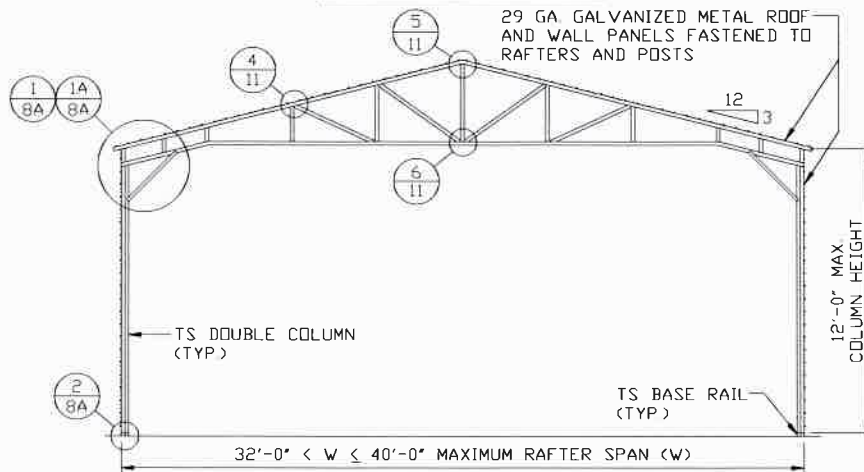
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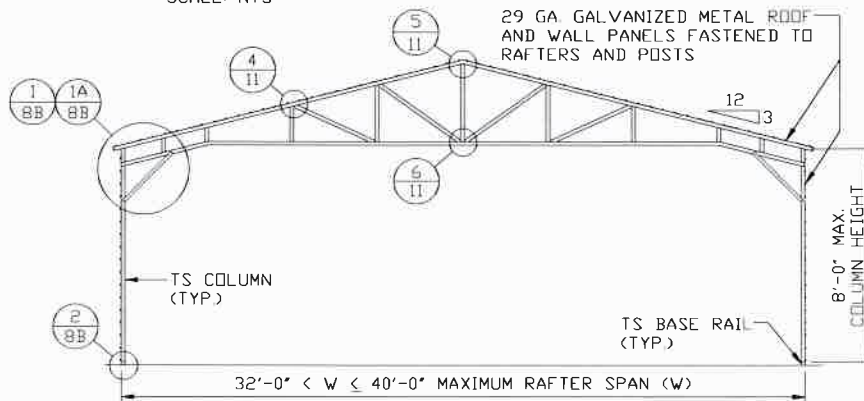
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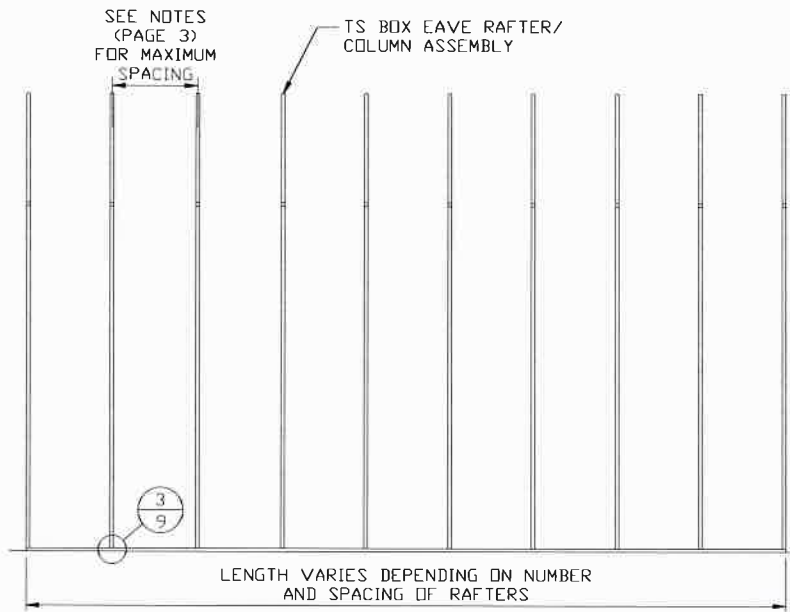
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TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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DRAWN BY: LT

CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: SBSI

STEEL BUILDING AND STRUCTURES INC.
P.O. BOX 1287,
MOUNT AIRY, NC 27030
32'-0"-60'-0"x20'-0" ENCLOSED BUILDING

DATE: 2-12-21

SHT. 7C

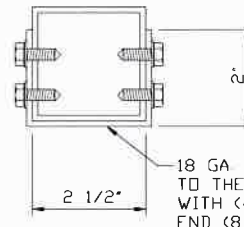
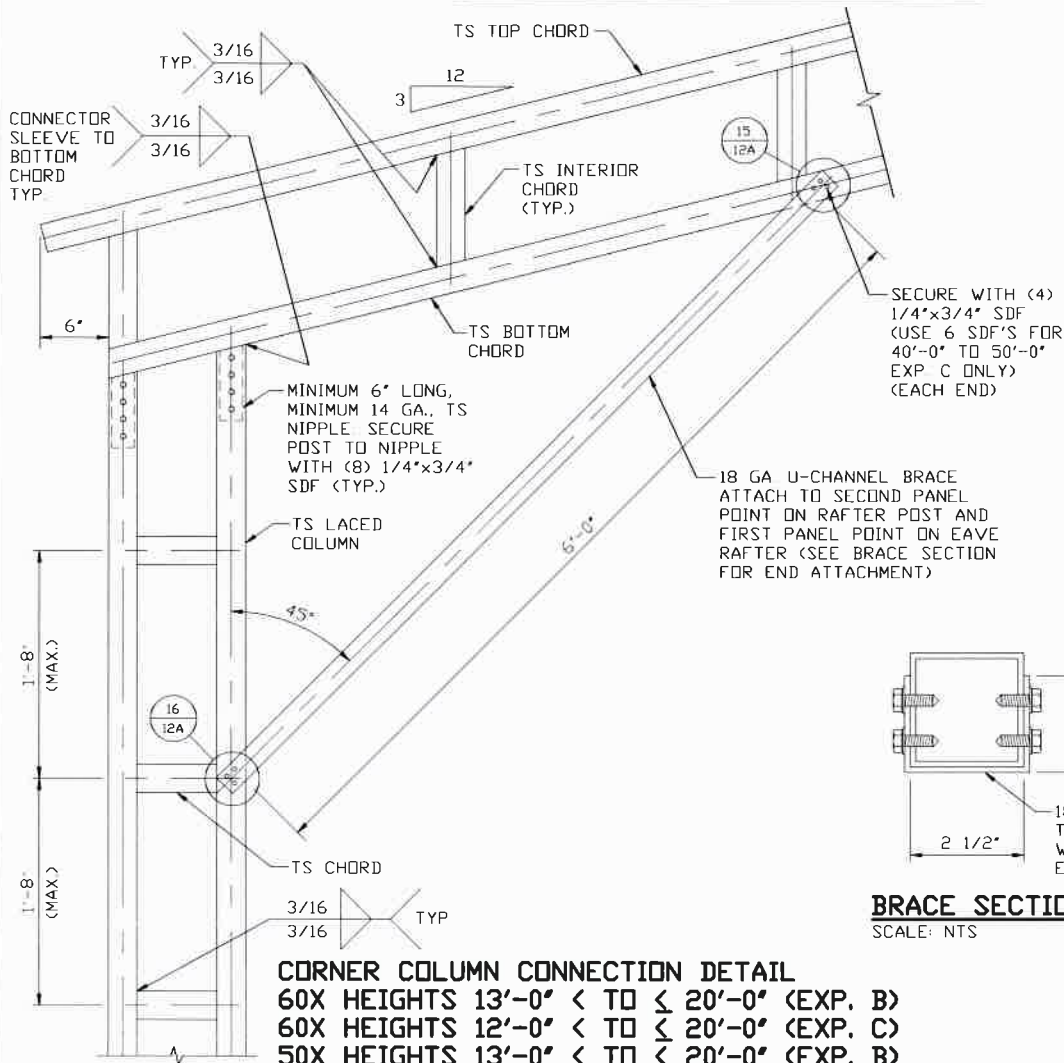
SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

REV: 2

LACED TUBE COLUMN OPTION



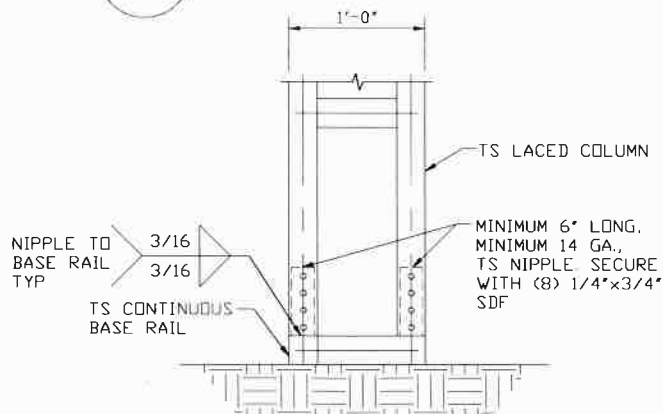
BRACE SECTION
SCALE: NTS

CORNER COLUMN CONNECTION DETAIL

60X HEIGHTS 13'-0" < TO ≤ 20'-0" (EXP. B)
 60X HEIGHTS 12'-0" < TO ≤ 20'-0" (EXP. C)
 50X HEIGHTS 13'-0" < TO ≤ 20'-0" (EXP. B)
 50X HEIGHTS 11'-0" < TO ≤ 20'-0" (EXP. C)
 40X HEIGHTS 14'-0" < TO ≤ 20'-0" (EXP. B)
 40X HEIGHTS 12'-0" < TO ≤ 20'-0" (EXP. C)

1

SCALE: NTS



2

COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS

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SCALE: NTS

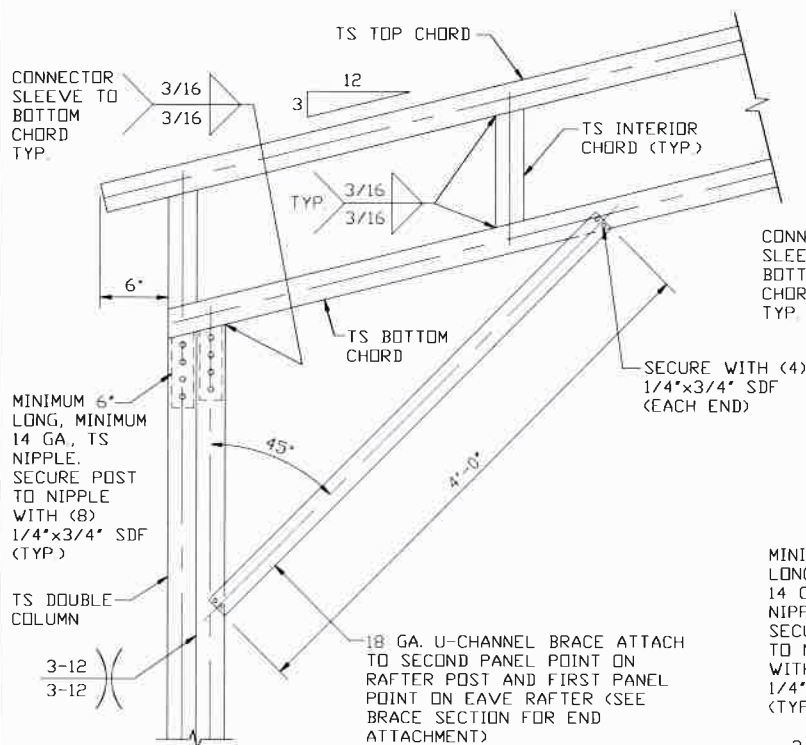
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JOB NO: 18195S/
20019S/20324S

REV: 2

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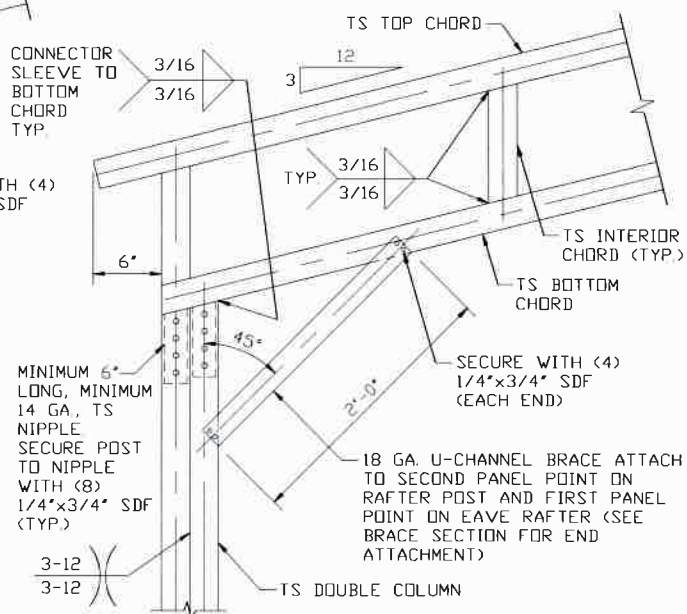
DOUBLE TUBE COLUMN OPTION



CORNER COLUMN CONNECTION DETAIL

60X HEIGHTS 9'-0" < TO ≤ 13'-0" (EXP. B)
 60X HEIGHTS 11'-0" < TO ≤ 12'-0" (EXP. C)
 50X HEIGHTS 9'-0" < TO ≤ 13'-0" (EXP. B)
 50X HEIGHTS 10'-0" < TO ≤ 11'-0" (EXP. C)
 40X HEIGHTS 9'-0" < TO ≤ 14'-0" (EXP. B)
 40X HEIGHTS 10'-0" < TO ≤ 12'-0" (EXP. C)

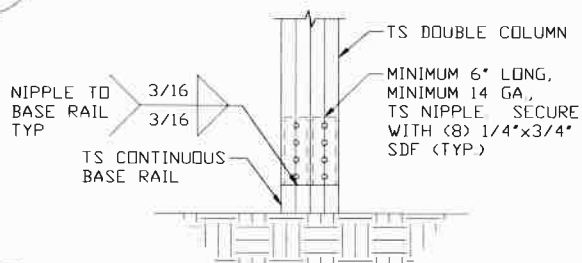
SCALE: NTS



CORNER COLUMN CONNECTION DETAIL

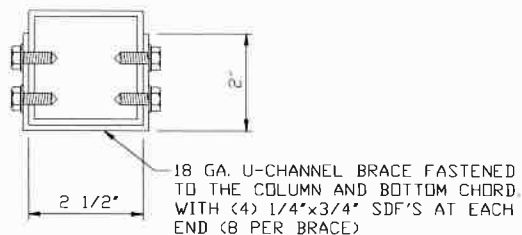
60X HEIGHTS 8'-0" < TO ≤ 11'-0" (EXP. C)
 50X HEIGHTS 8'-0" < TO ≤ 10'-0" (EXP. C)
 40X HEIGHTS 8'-0" < TO ≤ 10'-0" (EXP. C)

SCALE: NTS



COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



BRACE SECTION

SCALE: NTS

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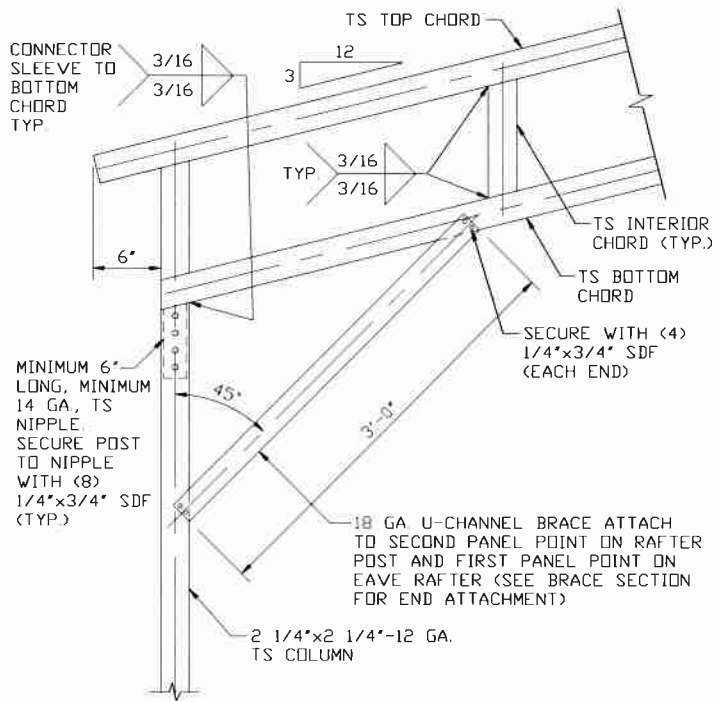
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DWG. NO: SK-3

JOB NO: 18195S/
 20019S/20324S

REV: 2

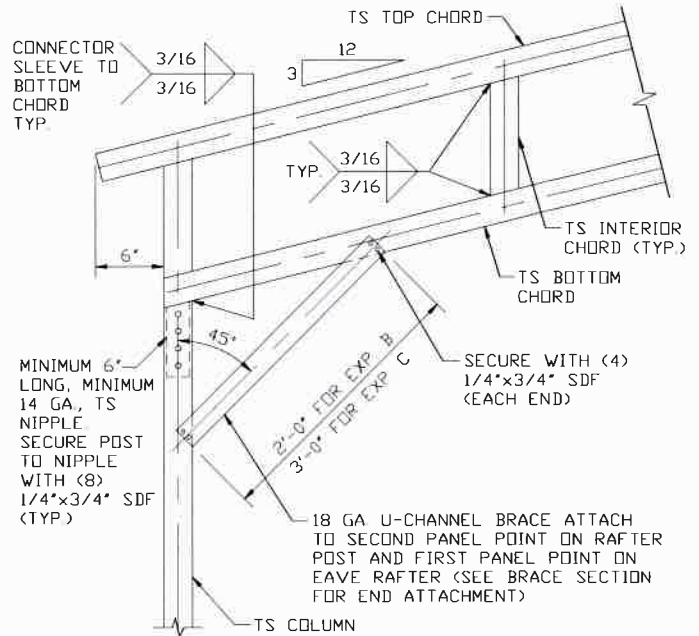
SINGLE TUBE COLUMN OPTION



CORNER COLUMN CONNECTION DETAIL

60X HEIGHTS 8'-0" < TO ≤ 9'-0" (EXP. B)
 50X HEIGHTS 8'-0" < TO ≤ 9'-0" (EXP. B)
 50X HEIGHTS ≤ 8'-0" (EXP. C)
 40X HEIGHTS 8'-0" < TO ≤ 9'-0" (EXP. B)
 40X HEIGHTS ≤ 8'-0" (EXP. C)

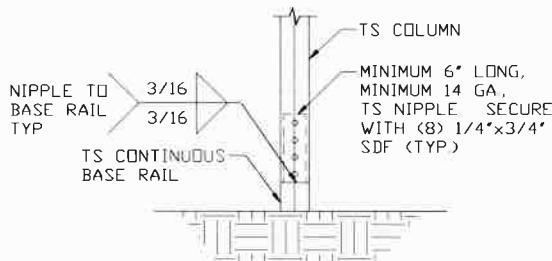
SCALE: NTS



CORNER COLUMN CONNECTION DETAIL

60X HEIGHTS ≤ 8'-0" (EXP. B & C)
 50X HEIGHTS ≤ 8'-0" (EXP. B)
 40X HEIGHTS ≤ 8'-0" (EXP. B & C)

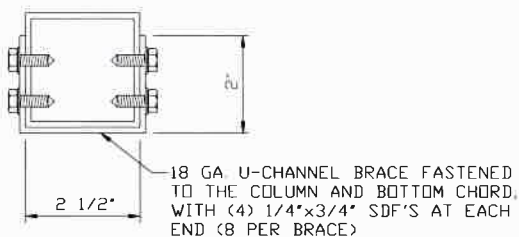
SCALE: NTS



2

COLUMN/BASE RAIL CONNECTION DETAIL

SCALE: NTS



BRACE SECTION

SCALE: NTS

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SCALE: NTS

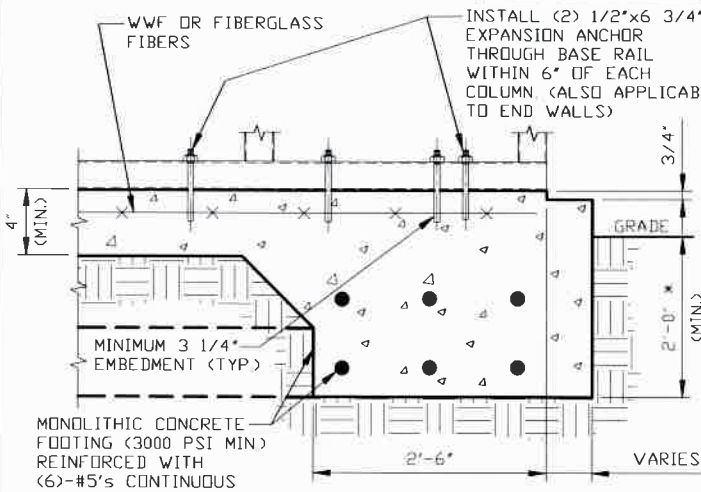
DWG. NO. SK-3

**JOB NO. 18195S/
20019S/20324S**

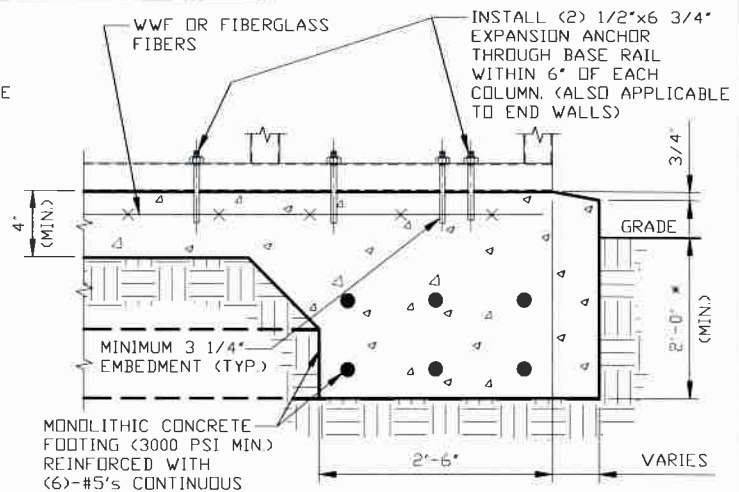
REV. 2

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BASE RAIL ANCHORAGE (60X)



**3 CONCRETE MONOLITHIC SLAB
BASE RAIL ANCHORAGE**
SCALE: NTS
(MINIMUM ANCHOR EDGE DISTANCE IS 4"
* COORDINATE WITH LOCAL CODES/ORD.



**3A CONCRETE MONOLITHIC SLAB
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:

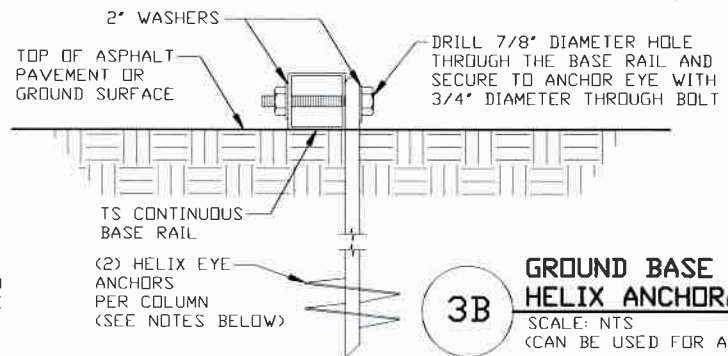
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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.



**3B 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: VSM

CLIENT: SBSI

STEEL BUILDING AND STRUCTURES INC.
P.O. BOX 1287,
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32'-0" x 60'-0" x 20'-0" ENCLOSED BUILDING

DATE: 2-12-21

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SCALE: NTS

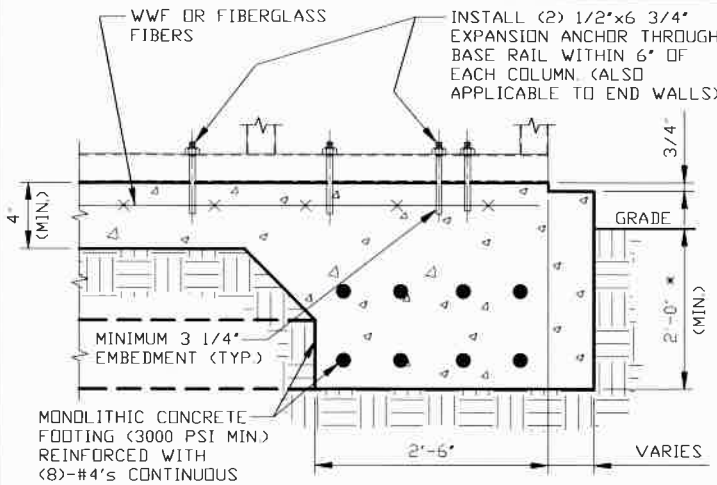
DWG. NO: SK-3

**JOB NO: 18195S/
20019S/20324S**

REV: 2

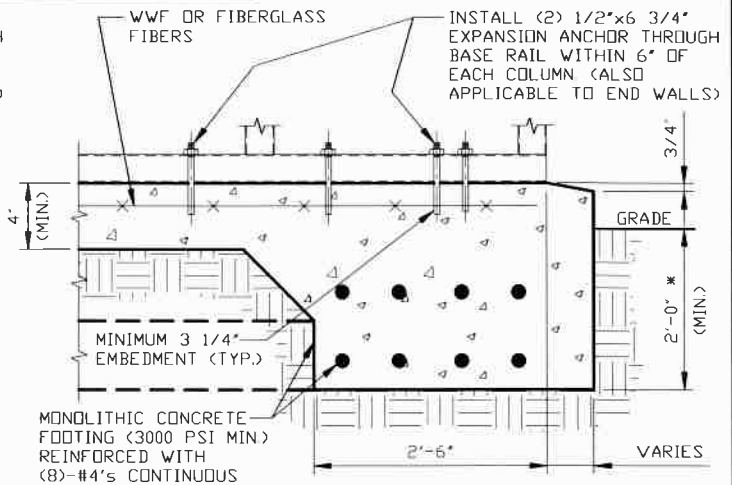
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BASE RAIL ANCHORAGE (50X)



3 CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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



3A CONCRETE MONOLITHIC SLAB 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:

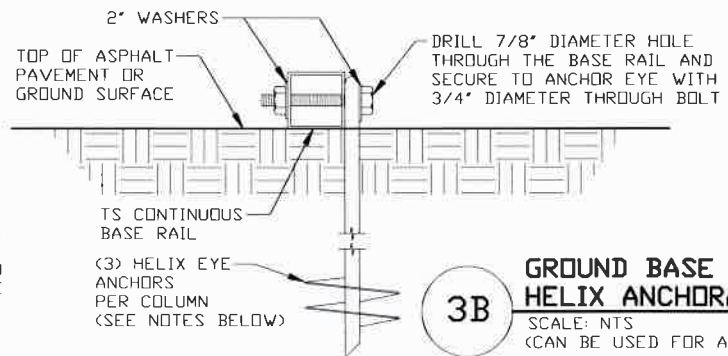
THE TURNDOWN REINFORCING STEEL SHALL BE ASTM A615 GRADE 60. THE SLAB REINFORCEMENT SHALL BE WELDED WIRE FABRIC MEETING ASTM A185 OR FIBERGLASS FIBER REINFORCEMENT.

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 LOOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



3B GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

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CHECKED BY: PDH

PROJECT MGR: VSM

CLIENT: SBSI

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P.O. BOX 1287,
MOUNT AIRY, NC 27030
32'-0"-60'-0"x20'-0" ENCLOSED BUILDING

DATE: 2-12-21

SHT. 9A

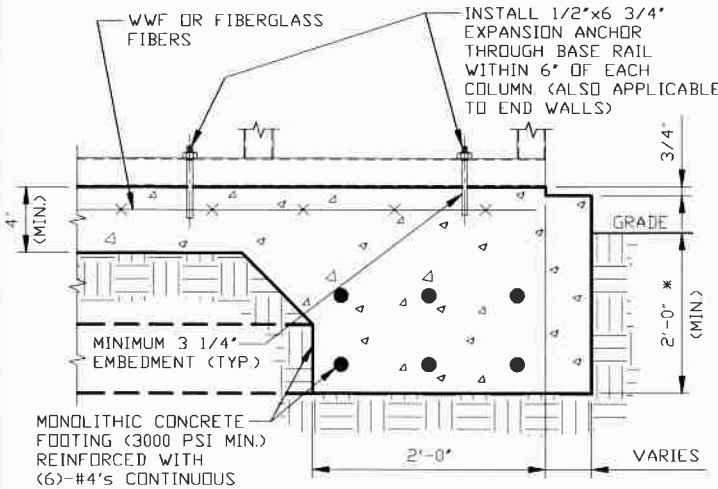
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DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

REV: 2

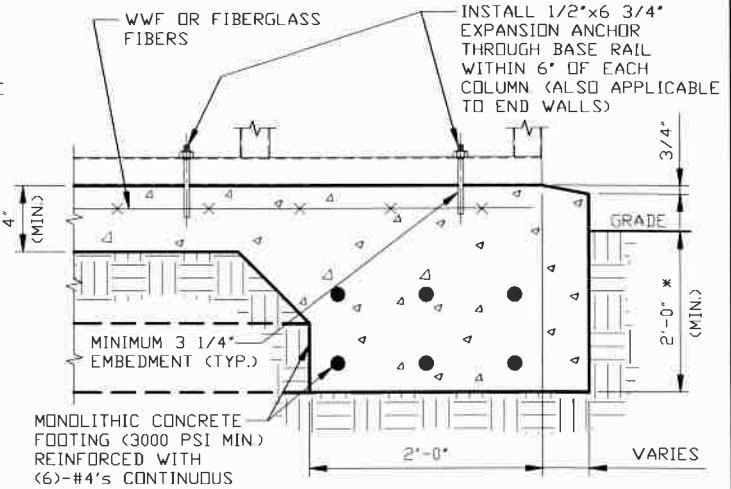
BASE RAIL ANCHORAGE (40X)



3

CONCRETE MONOLITHIC SLAB BASE RAIL ANCHORAGE

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



3A

CONCRETE MONOLITHIC SLAB 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:

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REINFORCING STEEL:

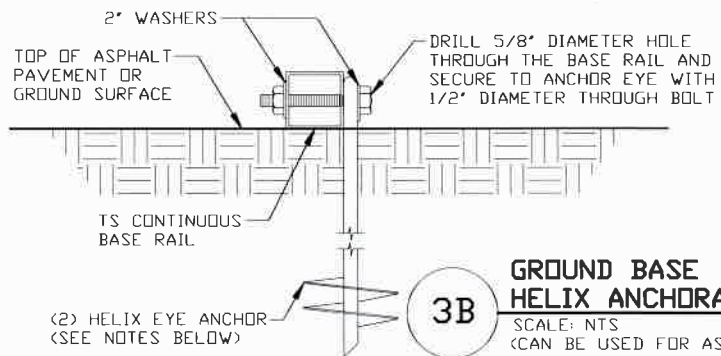
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2. FOR CORAL USE MINIMUM (2) 4" HELICES WITH MINIMUM 30" EMBEDMENT OR SINGLE 6" HELIX WITH MINIMUM 50" EMBEDMENT.
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5. FOR VERY LOSE TO MEDIUM DENSE SANDS, FIRM TO STIFFER CLAYS AND SILTS, ALLUVIAL FILL, USE MINIMUM (2) 8" HELICES WITH MINIMUM 60" EMBEDMENT.



3B

GROUND BASE HELIX ANCHORAGE

SCALE: NTS
(CAN BE USED FOR ASPHALT)

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CLIENT: SBSI

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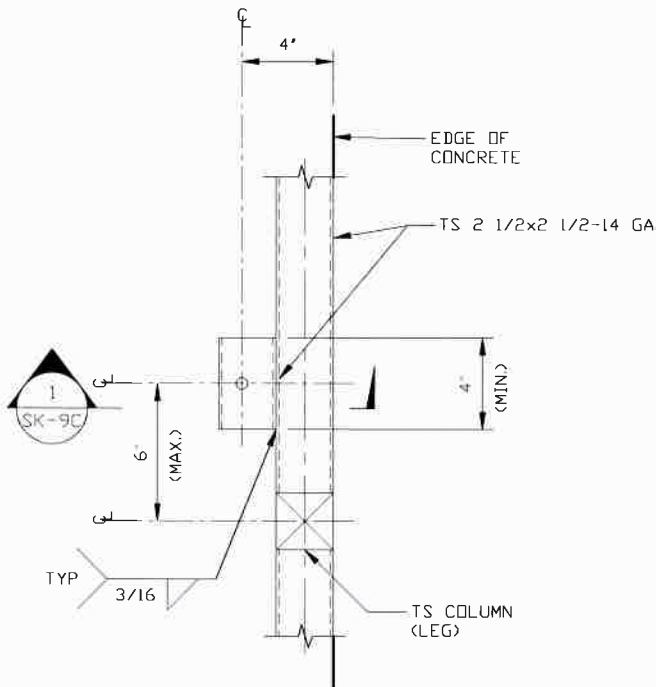
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DWG. NO: SK-3

JOB NO: 181955/
20019S/20324S

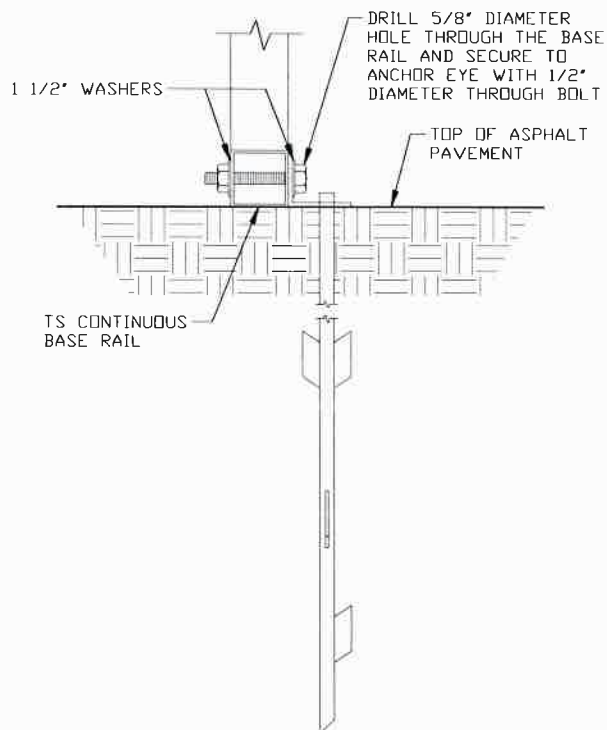
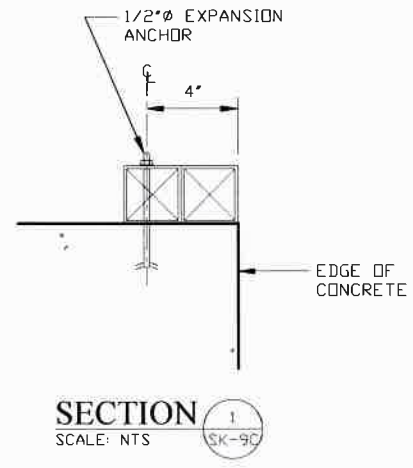
REV: 2

BASE RAIL ANCHORAGE OPTIONS



TYPICAL ANCHOR DETAIL WHEN BASE RAIL IS NEAR EDGE OF CONCRETE

SCALE: NTS



ASPHALT BASE ANCHORAGE

SCALE: NTS

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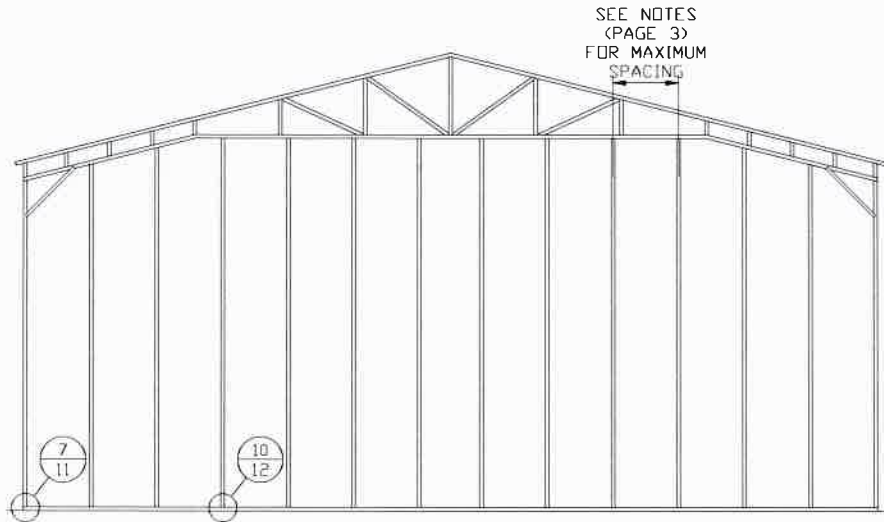
SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

REV: 2

END WALL



TYPICAL END WALL FRAMING SECTION

SCALE: NTS

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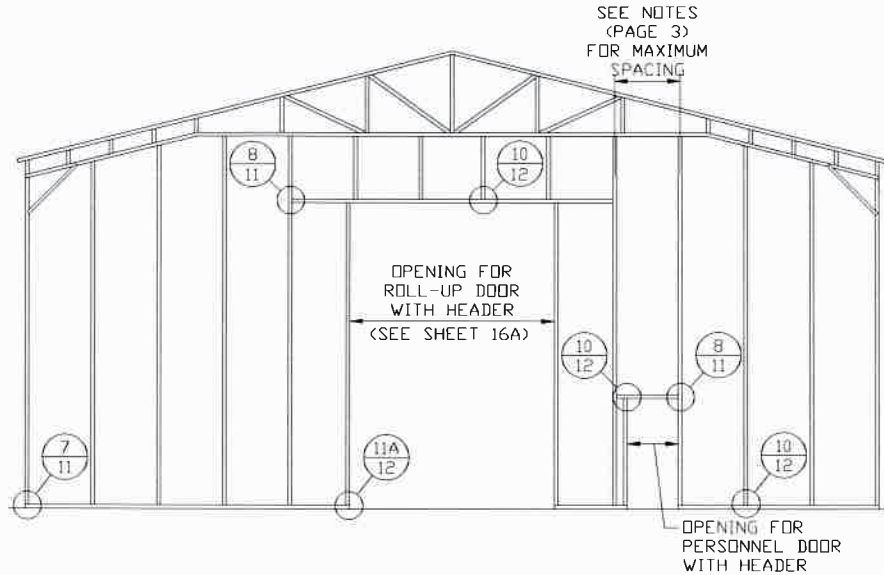
DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

SHT. 10

REV: 2

END WALL OPENINGS



TYPICAL END WALL OPENINGS FRAMING SECTION
SCALE: NTS

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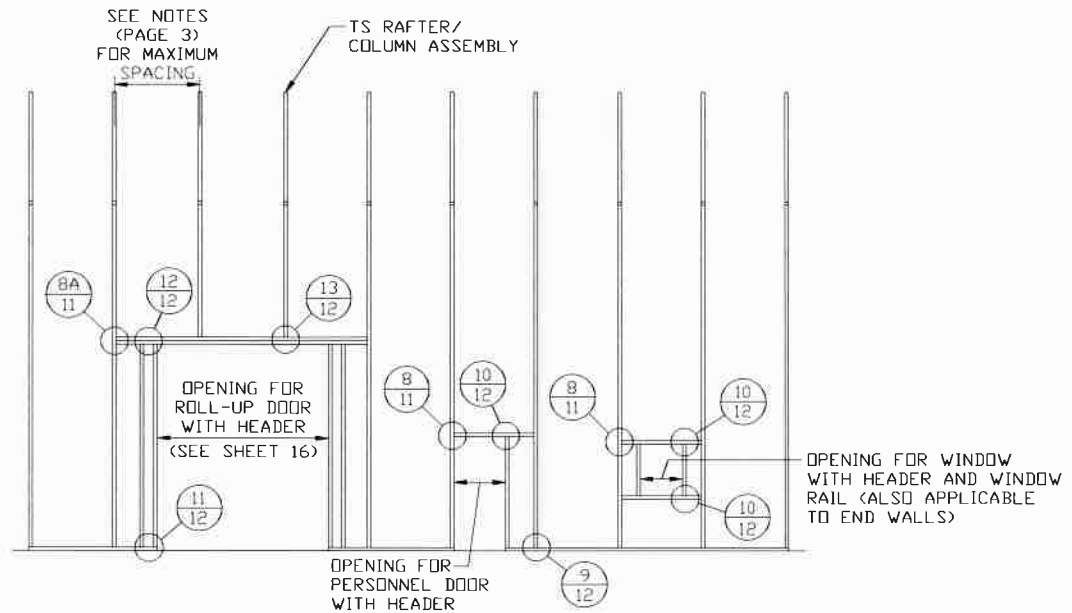
SCALE: NTS

DWG. NO: SK-3

**JOB NO: 18195S/
20019S/20324S**

REV: 2

SIDE WALL OPENINGS



TYPICAL SIDE WALL OPENINGS FRAMING SECTION

SCALE: NTS

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SHT. 10B

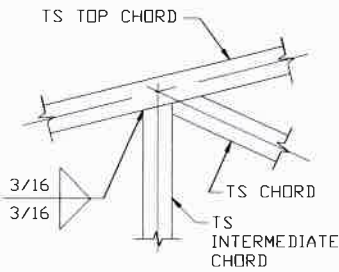
SCALE: NTS

DWG. NO: SK-3

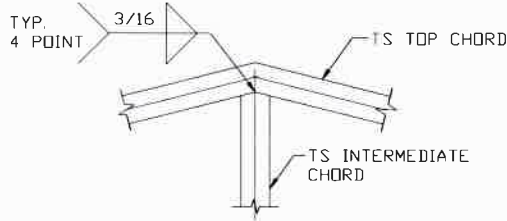
JOB NO: 18195S/
20019S/20324S

REV: 2

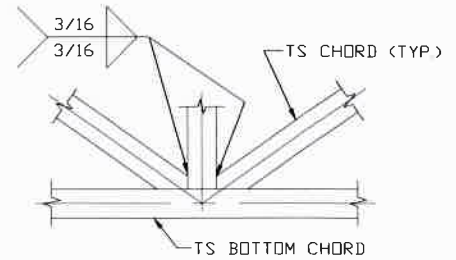
CONNECTION DETAILS



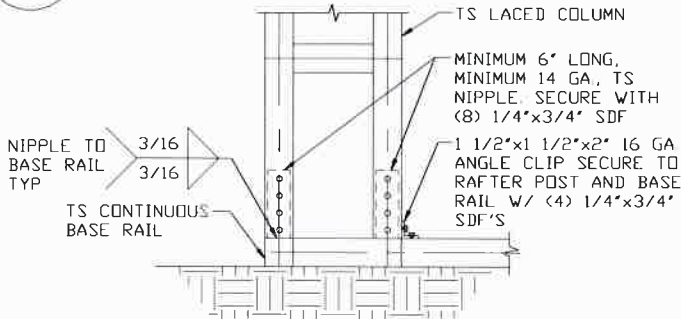
4
**INTERMEDIATE CHORD
TO TOP CHORD
CONNECTION DETAIL**
SCALE: NTS



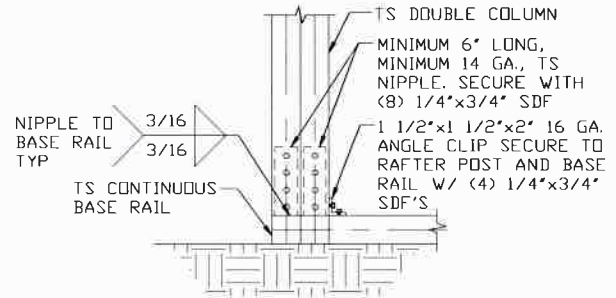
5
**CENTER POST TO RAFTER
CONNECTION DETAIL**
SCALE: NTS



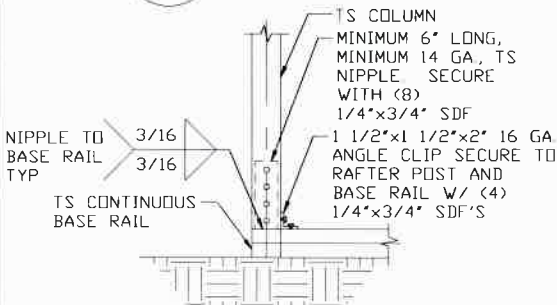
6
**CENTER POST TO
BOTTOM CHORD
CONNECTION DETAIL**
SCALE: NTS



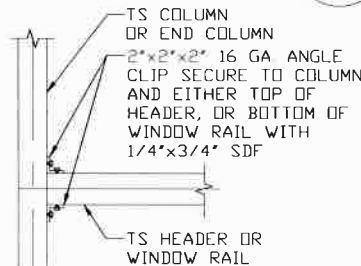
7
**END COLUMN/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



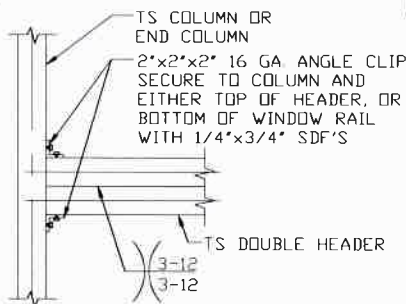
7A
**END POST/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



7B
**END POST/BASE RAIL
CONNECTION DETAIL**
SCALE: NTS



8
**COLUMN OR WINDOW
RAIL/WALL GIRT
TO POST
CONNECTION DETAIL**
SCALE: NTS



8A
**COLUMN OR DOUBLE
HEADER TO POST
CONNECTION DETAIL**
SCALE: NTS

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SHT. 11

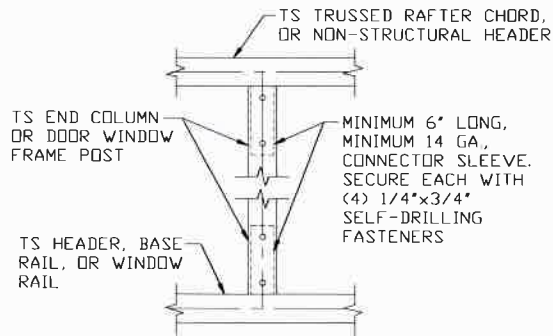
SCALE: NTS

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REV: 2

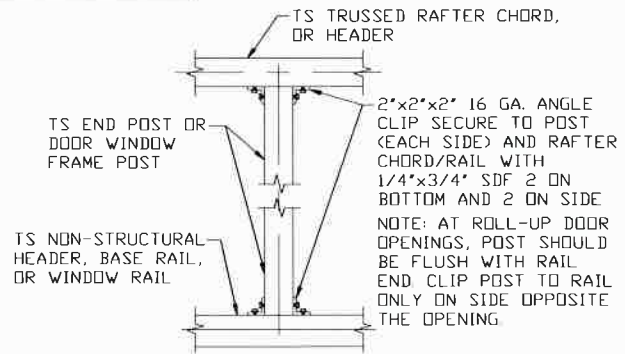
CONNECTION DETAILS



9

COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL

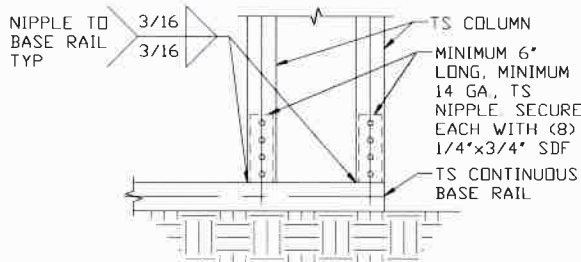
SCALE: NTS



10

HEADER OR WINDOW RAIL TO POST CONNECTION DETAIL

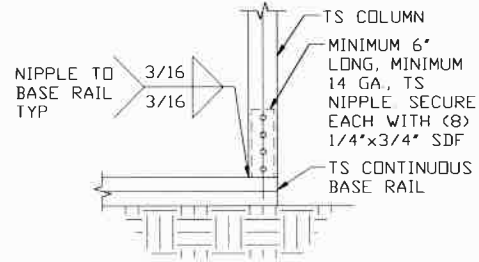
SCALE: NTS



11

COLUMN/BASE RAIL CONNECTION DETAIL

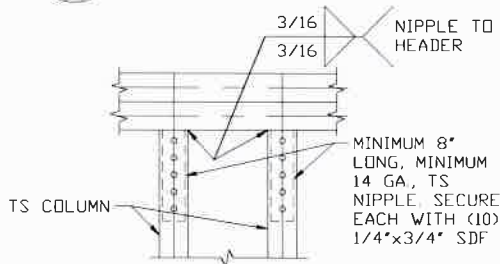
SCALE: NTS



11A

COLUMN/BASE RAIL CONNECTION DETAIL

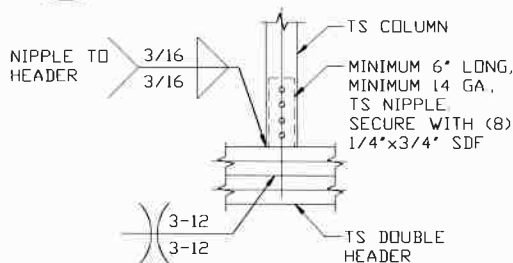
SCALE: NTS



12

DOUBLE HEADER/COLUMN CONNECTION DETAIL

SCALE: NTS



13

COLUMN/DOUBLE HEADER CONNECTION DETAIL

SCALE: NTS

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SHT. 12

SCALE: NTS

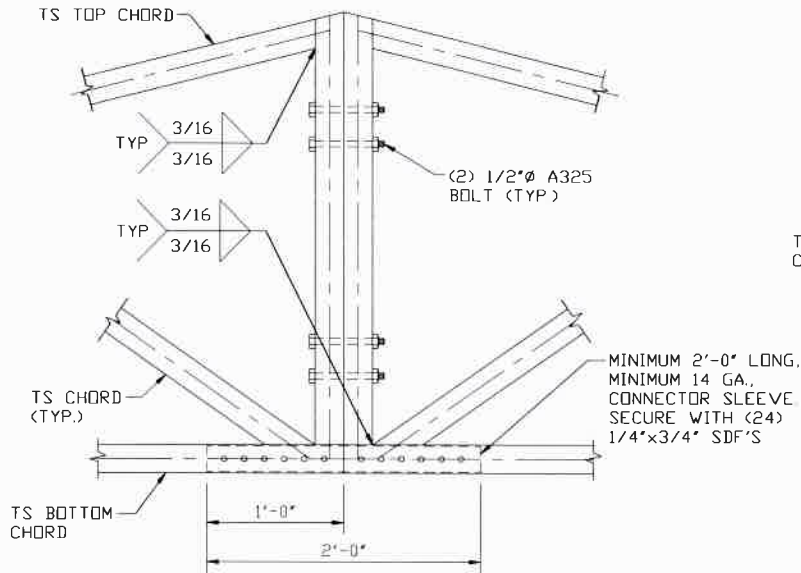
DWG. NO: SK-3

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REV: 2

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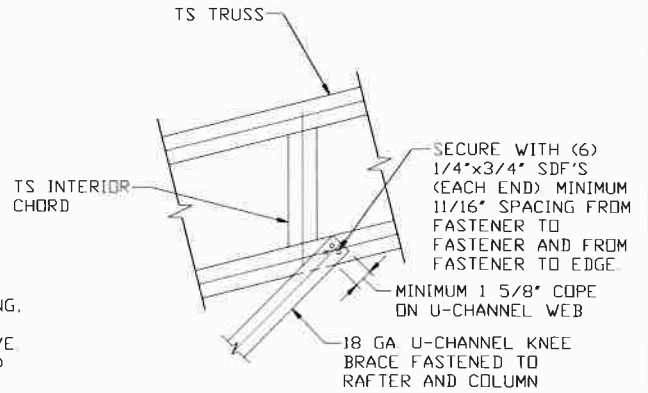
CONNECTION DETAILS



14

SPLICE CONNECTION DETAIL

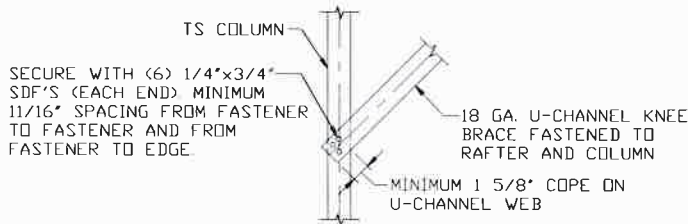
SCALE: NTS



15

U-CHANNEL TO RAFTER CONNECTION DETAIL FOR 40'X TO 50'X (EXP. C) ONLY

SCALE: NTS



16

U-CHANNEL TO COLUMN CONNECTION DETAIL FOR 40'X TO 50'X (EXP. C) ONLY

SCALE: NTS

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SHT. 12A

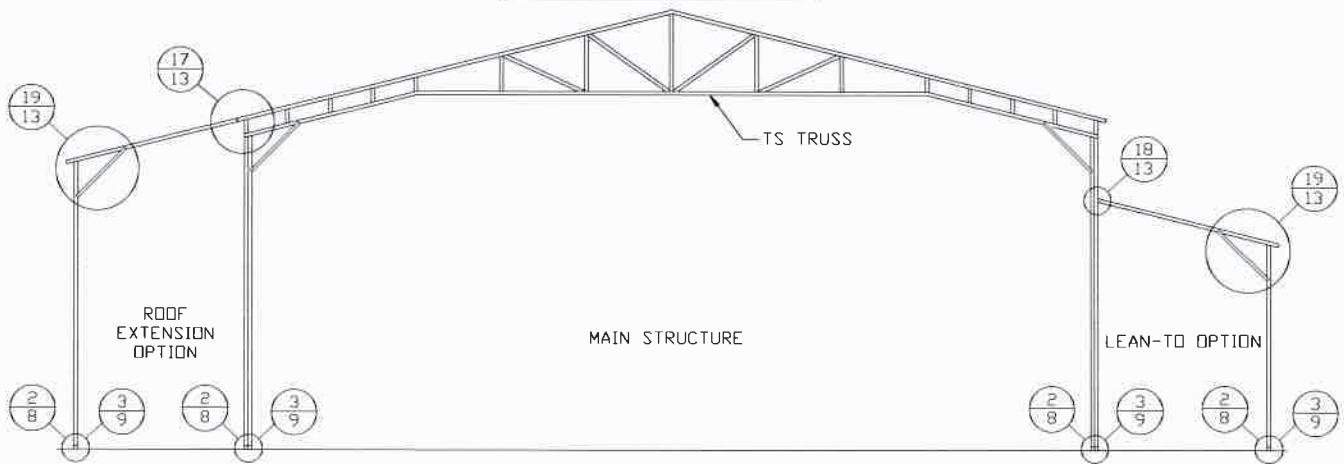
SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
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REV: 2

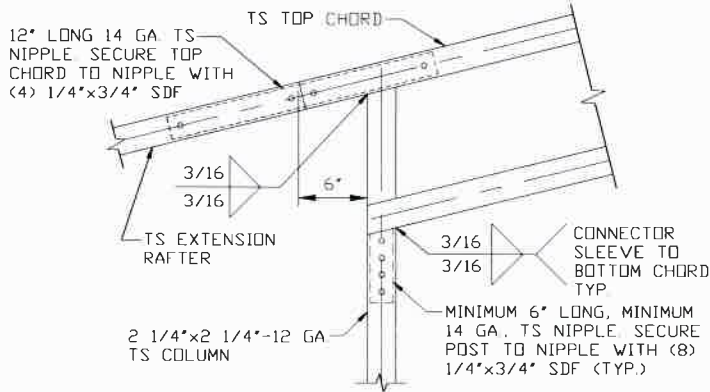
LEAN-TO OPTIONS



TYPICAL LEAN-TO OPTIONS FRAMING SECTION (BOTH OPTIONS SHOWN)

SCALE: NTS

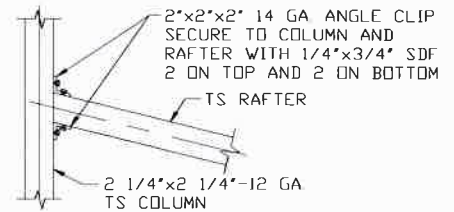
MAXIMUM WIDTH OF ROOF EXTENSION/LEAN-TO WITH SINGLE TS RAFTER FOR 60X IS 11'-0" (EXP. B AND EXP. C).
 MAXIMUM WIDTH OF ROOF EXTENSION/LEAN-TO WITH SINGLE TS RAFTER FOR 50X IS 11'-0" (EXP. B) AND 10'-0" (EXP. C).
 MAXIMUM WIDTH OF ROOF EXTENSION/LEAN-TO WITH SINGLE TS RAFTER FOR 40X IS 11'-0" (EXP. B) AND 10'-0" (EXP. C).
 MAXIMUM WIDTH OF ROOF EXTENSION/LEAN-TO WITH DOUBLE TS RAFTER IS 16'-0".
 FOR SHARED COLUMN HEIGHTS REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT
 AND TUBING SPECIFICATIONS. ALL SINGLE SHARED COLUMNS MUST BE 2 1/4"x2 1/4"-12 GA TS.



17

SIDE EXTENSION RAFTER/ CORNER POST DETAIL

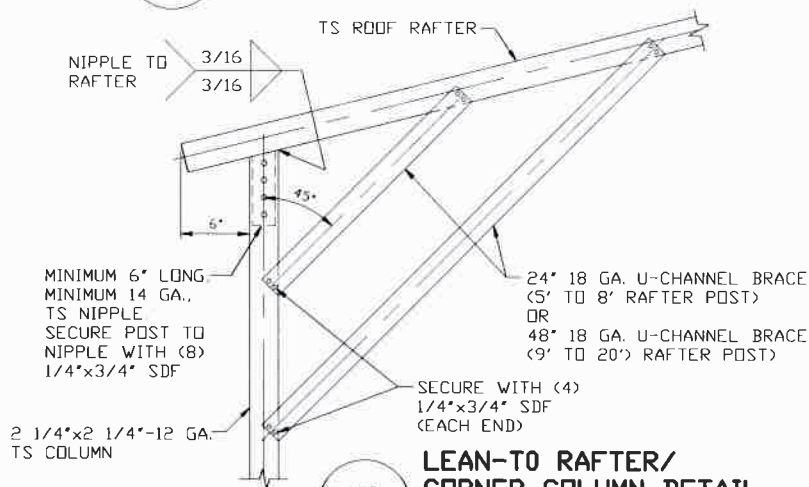
SCALE: NTS



18

LEAN-TO RAFTER TO RAFTER POST CONNECTION DETAIL

SCALE: NTS



19

LEAN-TO RAFTER/ CORNER COLUMN DETAIL

SCALE: NTS

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SHT. 13

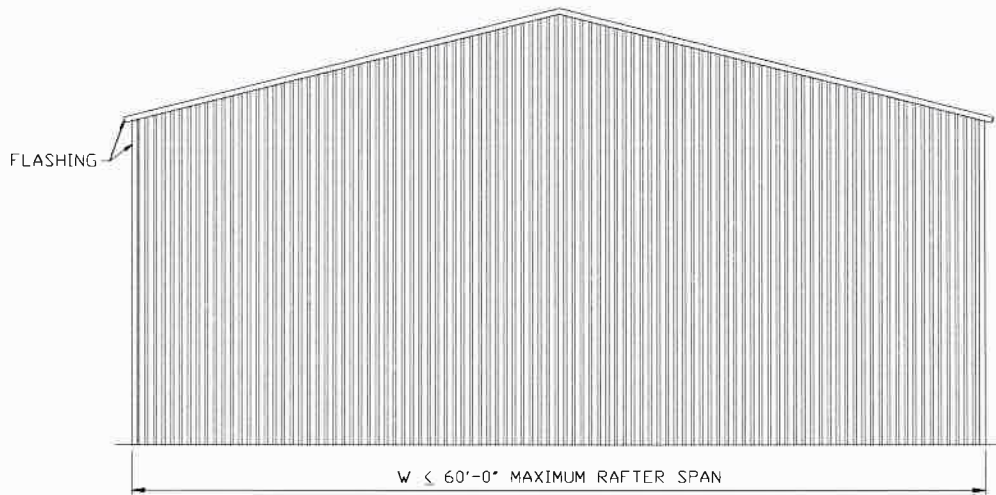
SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
20019S/20324S

REV: 2

VERTICAL ROOF/SIDING OPTION



TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

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SHT. 14

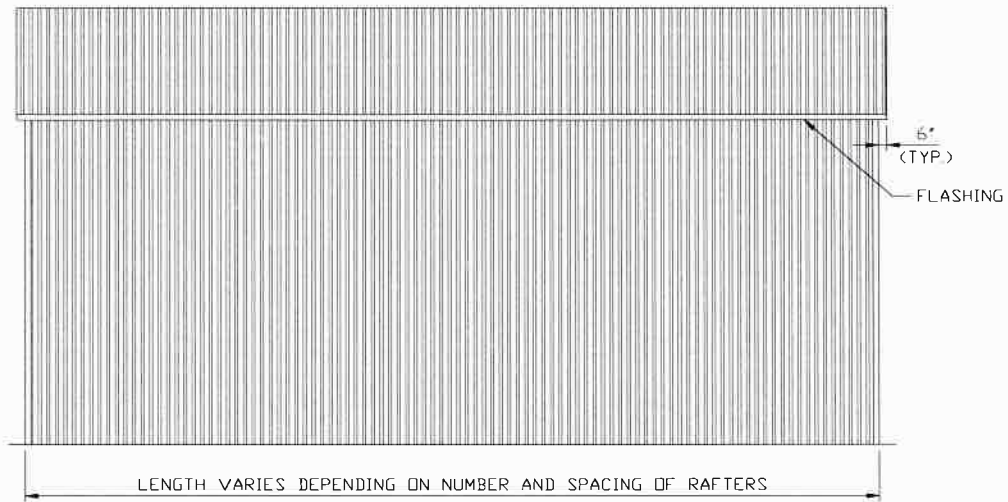
SCALE: NTS

DWG. NO: SK-3

**JOB NO: 18195S/
20019S/20324S**

REV: 2

VERTICAL ROOF/SIDING OPTION



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS

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SHT. 14A

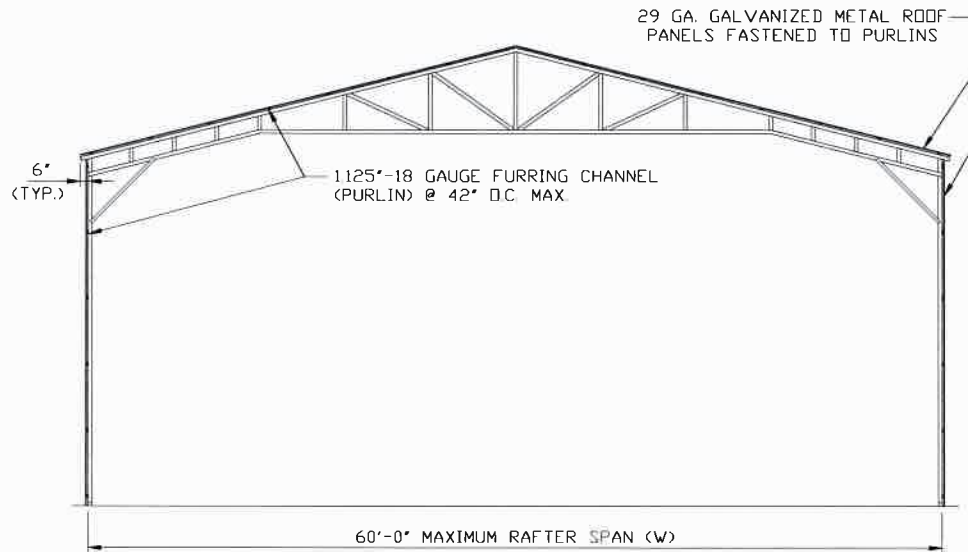
SCALE: NTS

DWG. NO. SK-3

**JOB NO. 18195S/
20019S/20324S**

REV: 2

VERTICAL ROOF/SIDING OPTION



TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

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SCALE: NTS

DWG. NO: SK-3

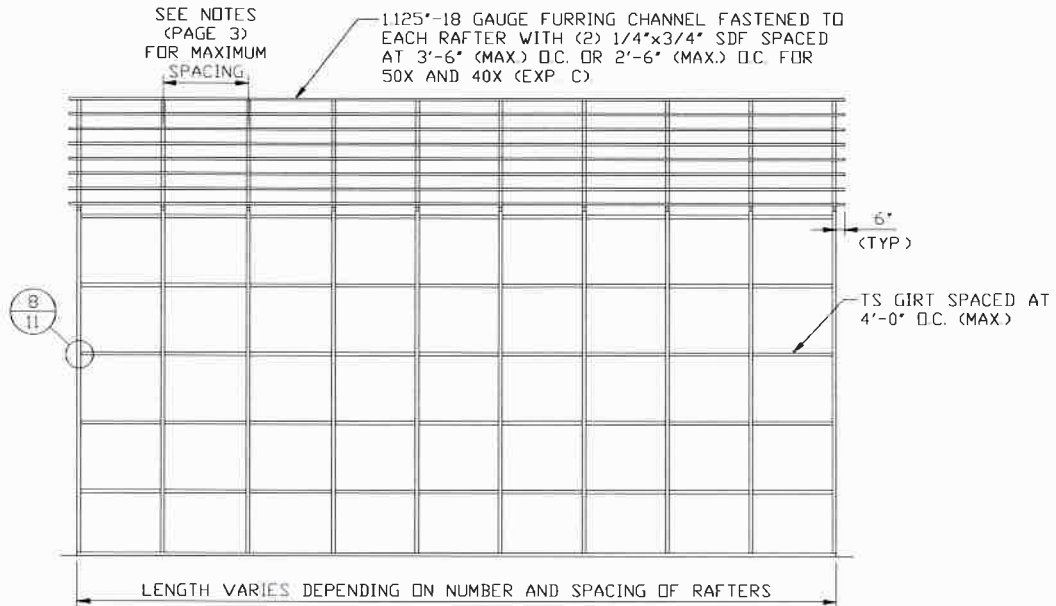
JOB NO: 18195S/
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SHT. 15

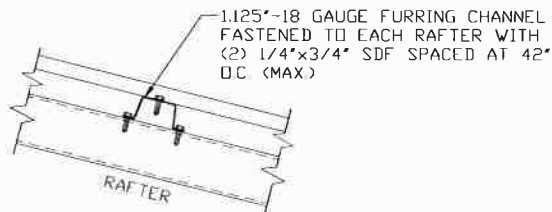
REV: 2

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VERTICAL ROOF/SIDING OPTION



TYPICAL SIDE FRAMING SECTION VERTICAL ROOF/SIDING OPTION
SCALE: NTS



ROOF PANEL ATTACHMENT

SCALE: NTS
(ALTERNATE FOR VERTICAL ROOF PANELS)

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SHT. 15A

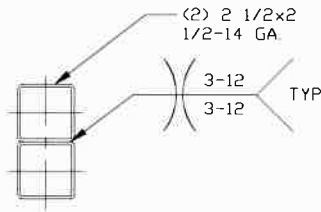
SCALE: NTS

DWG. NO: SK-3

**JOB NO: 18195S/
20019S/20324S**

REV: 2

SIDE WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS

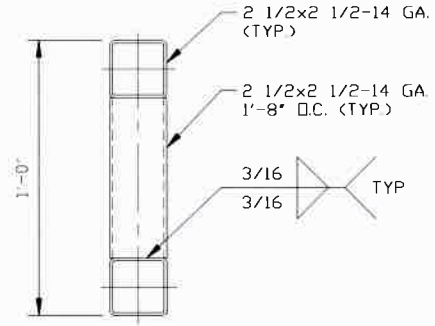
60X LENGTH \leq 7'-0" (EXP. B)

60X LENGTH \leq 8'-0" (EXP. C)

50X LENGTH \leq 8'-0"

40X LENGTH \leq 8'-0"

SCALE: NTS



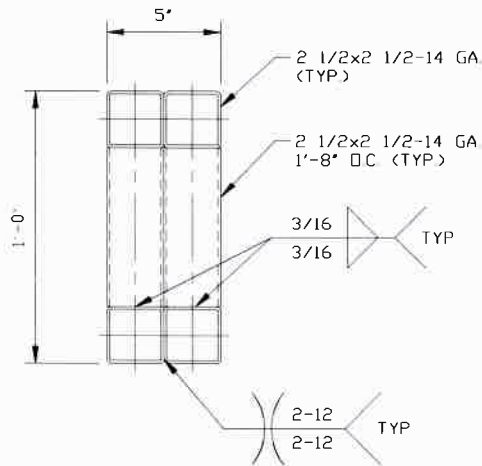
HEADER DETAIL FOR DOOR OPENINGS

60X 8'-0" < LENGTH \leq 15'-0"

50X 8'-0" < LENGTH \leq 15'-0"

40X 8'-0" < LENGTH \leq 18'-0"

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS

60X 15'-0" < LENGTH \leq 20'-0"

50X 15'-0" < LENGTH \leq 20'-0"

40X 18'-0" < LENGTH \leq 20'-0"

SCALE: NTS

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SHT. 16

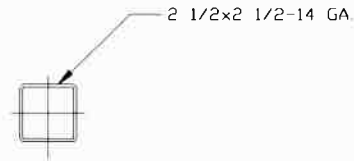
SCALE: NTS

DWG. NO: SK-3

JOB NO: 18195S/
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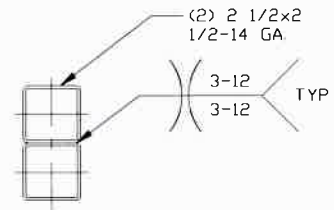
REV: 2

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS
 60X LENGTH \leq 6'-0"
 50X LENGTH \leq 6'-0"
 40X LENGTH \leq 6'-0"

SCALE: NTS



HEADER DETAIL FOR DOOR OPENINGS
 60X 6'-0" < LENGTH \leq 12'-0"
 50X 6'-0" < LENGTH \leq 12'-0"
 40X 6'-0" < LENGTH \leq 12'-0"

SCALE: NTS

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SHT. 16A

SCALE: NTS

DWG. NO: SK-3

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