NORTHEDGE

STRUCTURAL DESIGN ENCLOSED BUILDING

MAXIMUM 30'-0" WIDE X 16'- 0" EAVE HEIGHT-BOX EAVE FRAME AND BOW FRAME

14 April 2022 Revision 0 M&A Project No. 21204S

Prepared for:

Northedge Steel, LLC 350 Forum Parkway Rural Hall, NC 27045

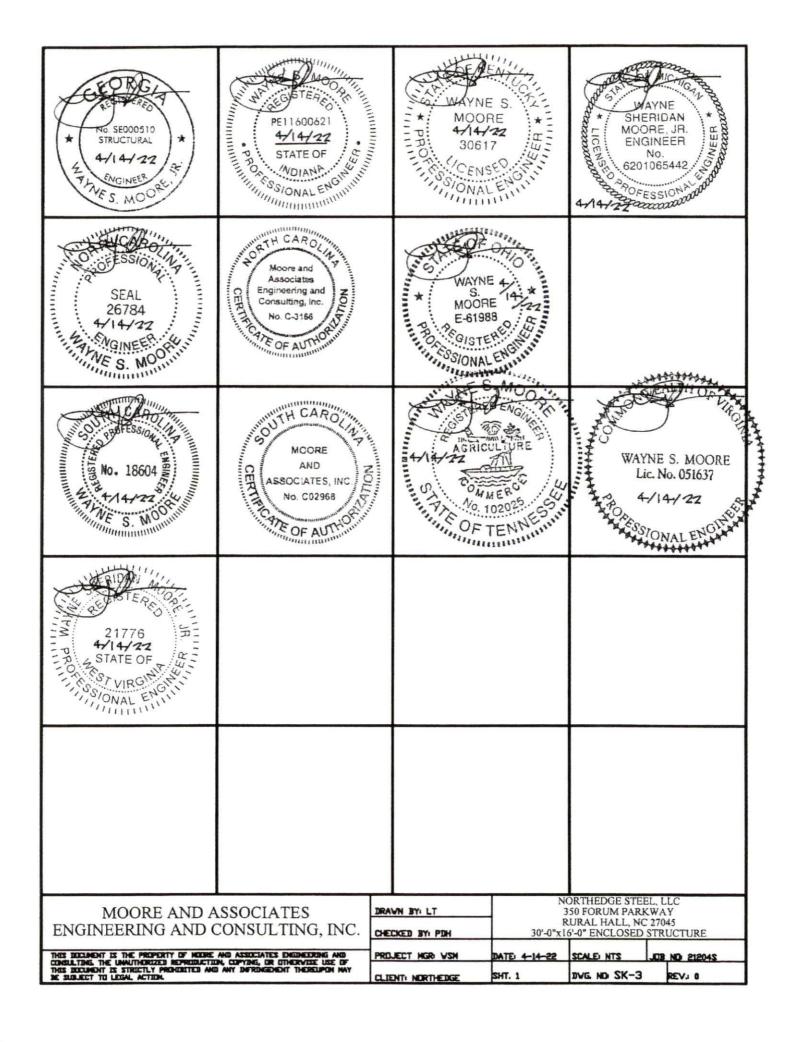
Prepared by:

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MOORE AND ASSOCIATES	BRAWN BY: LT		ORTHEDGE STEE 50 FORUM PARK	

INSTALLATION NOTES AND SPECIFICATIONS

- 1. DESIGN IS FOR MAXIMUM 30'-0' WIDE x 16'-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) ROOF DEAD LOADS:

SELF-WEIGHT = 1.5 PSF MEP = 0 PSF COLLATERAL = 0 PSF

B) ROOF LIVE LOAD = 12 PSF

C) FLOOR LIVE LOAD = 100 PSF (4' CONCRETE SLAB-ON-GRADE)

D) GROUND SNOW LOAD = 60 PSF

= 35 PSF

= 30 PSF (W & 24'-0'), WITH U-CHANNEL RAFTER TIE)

NOTE: UNBALANCED LOADING DUE TO SNOW DRIFTING FROM AN ADJACENT TALLER STRUCTURE HAS NOT BEEN EVALUATED.

- 4. 3-SECOND GUST WIND SPEED = ≤ 115 MPH (NOMINAL WIND SPEED = ≤ 89 MPH).
- 5, MAXIMUM RAFTER/COLUMN AND END COLUMN SPACING = 3.5 FEET FOR SL 35 PSF < TO < 60 PSF AND 5.0 FEET FOR < 35 PSF (UNLESS NOTED OTHERWISE).
- 6. END WALL COLUMNS (POSTS) ARE EQUIVALENT TO SIDE WALL COLUMNS IN SIZE AND SPACING (UNLESS NOTED OTHERWISE).
- 7. RISK CATEGORY I (NOT FOR HUMAN HABITATION).
- B. WIND EXPOSURE CATEGORY B/C.
- 9. SPECIFICATIONS APPLICABLE TO 29 GAUGE (FOR SL & 35 PSF) AND 26 GAUGE (FOR SL 35 PSF < TO < 60 PSF) METAL PANELS FASTENED DIRECTLY TO 2 1/2' × 2 1/2' 14 GAUGE TUBE STEEL (TS) FRAMING MEMBERS (UNLESS NOTED OTHERWISE), TS 2 1/4' × 2 1/4' 12 GAUGE MAY BE USED AS AN OPTION.
- 9. CONNECTOR SLEEVES ARE MINIMUM 6' LONG, TS 2 1/4'x2 1/4'-14 GAUGE FOR 2 1/2'x2 1/2'-14 GAUGE AND TS 2'x2'-12 GAUGE FOR 2 1/4'x2 1/4'-12 GAUGE FRAMING MEMBERS (UNLESS NOTED OTHERWISE).
- 10. STRUCTURAL ANALYSIS/DESIGN IS BASED ON TS MEETING THE REQUIREMENTS OF ASTM A653 GRADE 50 WITH MINIMUM YIELD STRENGTH (Fy) OF 54 KSI AND GALVANIZING MEETING THE MINIMUM REQUIREMENTS OF G60.
- 11. AVERAGE PANEL FASTENER SPACING ON-CENTERS = 9' D.C. (MAX.)
- 12. FASTENERS CONSIST OF #12-14x3/4" 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.
- 13, ANCHORS SHALL BE INSTALLED THROUGH BASE RAIL WITHIN 6' OF EACH RAFTER COLUMN ALONG SIDES.
- 14. STANDARD GROUND ANCHORS (SCIL NAILS) CONSIST OF #4 REBAR W/ WELDED NUT x 36' LONG AND MAY BE USED IN SUITABLE SCILS. OPTIONAL ANCHORAGE MAY BE USED IN SUITABLE SCILS AND MUST BE USED IN UNSUITABLE SCILS AS NOTED. COORDINATE WITH LOCAL CODES/ORDINANCES REGARDING MINIMUM LENGTH FOR FROST DEPTH PROTECTION.
- 15. 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.
- 16. WIND FORCES GOVERN OVER SEISMIC FORCES. SEISMIC PARAMETERS ANALYZED ARE:

SUIL SITE CLASS = D

RISK CATEGORY I R = 3.25 $I_E = 1.0$ $S_{DE} = 2.625$ $V = C_S W$

 $S_{DS} = 2.625 g$ $S_{Di} = 2.13 g$

- 17. IF MORE THAN 50% OF COLUMN (LEG) ARE REMOVED IN ANY LONGITUDINAL (SIDE) WALLS OF A BUILDING, THE ENGINEER IS TO BE NOTIFIED TO DETERMINE WHETHER PORTAL FRAMES OR OTHER LONGITUDINAL STABILITY ELEMENTS WILL BE REQUIRED.
- 18. THIS MASTER DESIGN IS A GENERIC MASTER DESIGN PRIMARILY INTERDED FOR PLANT FARRICATION AND ERECTION AKIN TO SHOP DRAWINGS. THE MASTER DESIGN IS NOT PRIMARILY DITEMBED FOR CONSTRUCTION PERMIT, WHEN APPLYING FOR BUILDING PERMIT, THE CERTIFIED BUILDING DEFICIAL MUST BE CENSULTED TO VERIFY WHETHER THE USE OF THE MASTER DESIGN IS ADDILATED FOR STITE-SPECIFIC DESIGN IS REDUIRED FOR BUILDING PERMIT. ANY VARIATION FROM THE AMALYSIS/DESIGN PARAMETERS OF THE MASTER DESIGN REQUIRES THE DEVELOPMENT OF A SITE-SPECIFIC DESIGN.

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LIST OF APPLICABLE BUILDING CODES

2018 INTERNATIONAL BUILDING CODE (IBC 2018)

2015 INTERNATIONAL BUILDING CODE (IBC 2015)

2012 INTERNATIONAL BUILDING CODE (IBC 2012)

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

INDIANA BUILDING CODE, 2014 EDITION (ADDPTS THE IBC 2012 WITH AMENDMENTS)

2018 KENTUCKY BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2015 MICHIGAN BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

2018 NORTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2015 WITH AMENDMENTS)

OHIO BUILDING CODE 2017
(ADOPTS THE 2015 WITH AMENDMENTS)

2018 SOUTH CAROLINA BUILDING CODE (ADOPTS THE IBC 2018 WITH AMENDMENTS)

BUILDING CODE 2012 OF TENNESSEE
(ADDPTS THE IBC 2012 WITH AMENDMENTS)
BUILDING CODE 2018 OF NASHVILLE AND DAVIDSON
COUNTY (ADOPTS THE IBC 2018 WITH AMENDMENTS)

2018 VIRGINIA CONSTRUCTION CODE (ADDPTS THE IBC 2018 VITH AMENDMENTS)

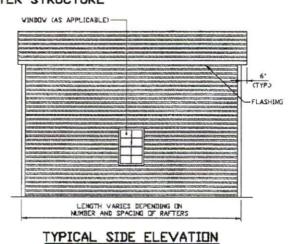
BUILDING CODE 2015 OF WEST VIRGINIA (ADOPTS THE IBC 2015 WITH AMENDMENTS)

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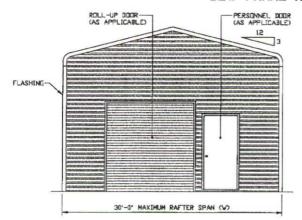


TYPICAL END ELEVATION

SCALE: NTS

SCALE: NTS

BOW FRAME RAFTER STRUCTURE



VINDOV (AS APPLICABLE)

STATEMENT OF THE PROPERTY OF THE PROPE

TYPICAL END ELEVATION
SCALE: NTS

TYPICAL SIDE ELEVATION
SCALE: NTS

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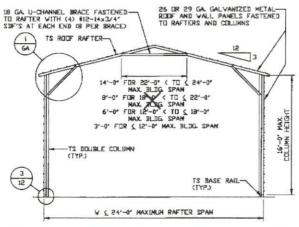
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TS ROOF RAFTER— ROOF AND VALL PANELS FASTENED TO RAFTERS AND COLUMNS TS COLLAR TIE 12 13 12 20'-0' FOR 28'-0' < TO \(\) 30'-0' MAX. BCDG/SPAN 18'-0' FOR 26'-0' < TO \(\) 28'-0' MAX. BCDG/SPAN 16'-0' FOR 24'-0' < TO \(\) 28'-0' MAX. BLDG SPAN 16'-0' FOR 24'-0' < TO \(\) 28'-0' MAX. BLDG SPAN 15' BOUBLE COLUMN 3A 12 24'-0' < V \(\) 30'-0' MAXIMUM RAFTER SPAN

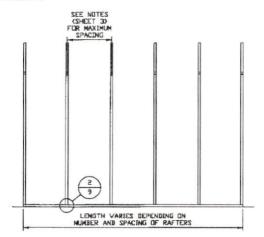
TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN FRAME SECTION

SCALE: NTS



TYPICAL RAFTER/COLUMN SIDE FRAMING SECTION

SCALE: NTS

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TS ROOF RAFTER ROOF AND WALL PANELS FASTENED TO RAFTERS AND COLUMNS TS COLLAR TIE TS COLLAR TIE TS COLLAR TIE TO ASSERT FOR 200-0- TO 300-0- T

SCALE: NTS

18 GA. U-CHANNEL BRACE FASTENED
TO RAFTER WITH (4) 812-14-83/4"
SDF'S AT EACH END (9 PER BRACE)

TS ROUF RAFTER

14'-0' FOR 22'-0' (TO \(2 \) 24'-0' (AX. BLDG. SPAN

14'-0' FOR 18'-0' FOR \(2 \) 20'-0' (AX. BLDG. SPAN

14'-0' FOR 18'-0' FOR \(2 \) 20'-0' (AX. BLDG. SPAN

13'-0' FOR \(2 \) 12'-0' MAX. BLDG. SPAN

3'-0' FOR \(\) 12'-0' MAX. BLDG. SPAN

15 CDLUMN

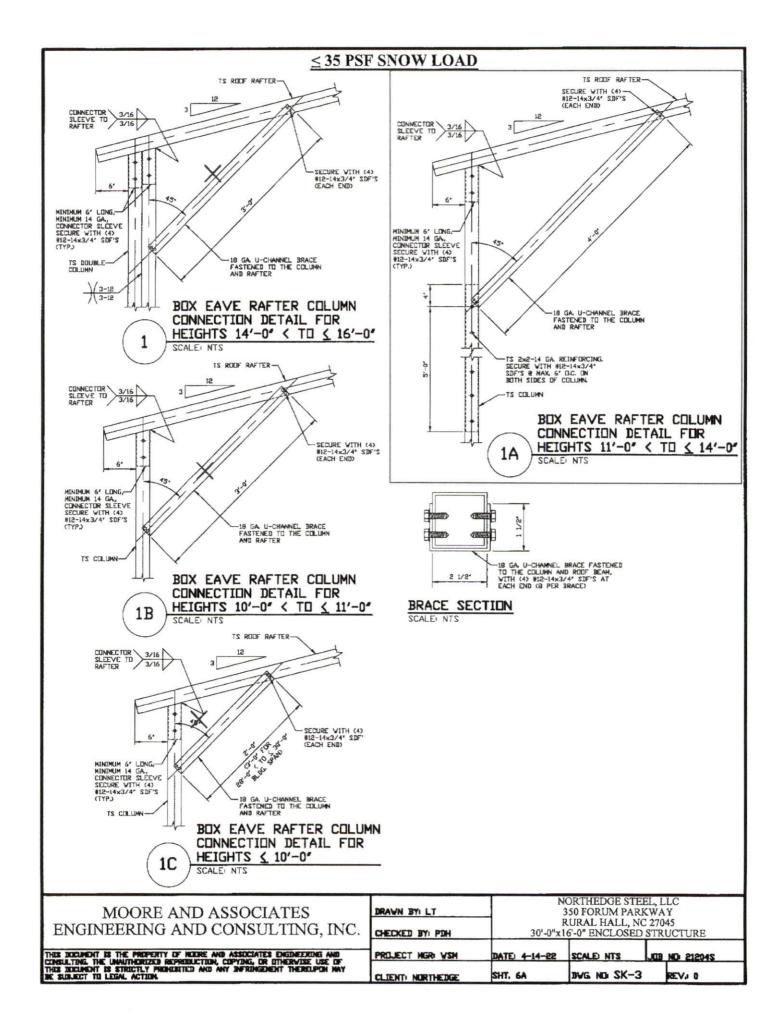
15 CDLUMN

17 BASE RAIL

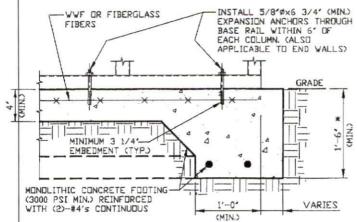
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TYPICAL RAFTER/COLUMN FRAME SECTION

TYPICAL RAFTER/COLUMN FRAME SECTION



BASE RAIL ANCHORAGE OPTIONS FOR ≤ 35 PSF SNOW LOAD





CONCRETE MONOLITHIC SLAB BASE RAIL ANCHURAGE

MINIMUM ANCHOR EDGE DISTANCE IS 4'. * COORDINATE WITH LOCAL BUILDING CODE AND/OR BUILDING OFFICIAL REGARDING REQUIRED FOOTING DEPTH.

GENERAL NOTES

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

CUNCRETE

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.

REINFURCING STEEL!

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

REINFORCEMENT MAY BE BENT IN THE SHIP 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 STABLE 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 LODSE 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.

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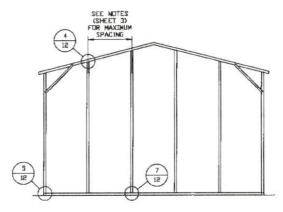
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DRILL 5/8'\$ HOLE THROUGH THE BASE RAIL AND SECURE TO ANCHOR EYE WITH 1/2' DIAMETER THROUGH BOLT TOP OF ASPHALT PAVEMENT OR GROUND SURFACE	
S CONTINUOUS	
HELIX EYE ANCHOR (SEE NOTES BELOW)	

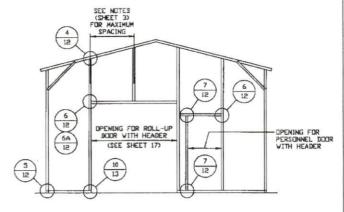
GROUND BASE HELIX ANCHORAGE (CAN BE USED FOR ASPHALT)

BOX EAVE RAFTER END WALL AND SIDE WALL FRAMING SECTIONS



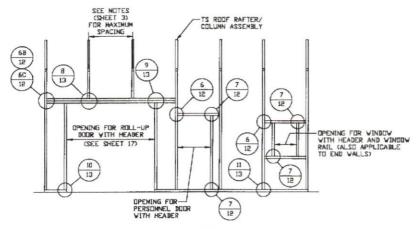
TYPICAL BOX EAVE RAFTER END WALL FRAMING SECTION

SCALE: NTS



TYPICAL BOX EAVE RAFTER END WALL OPENINGS FRAMING SECTION

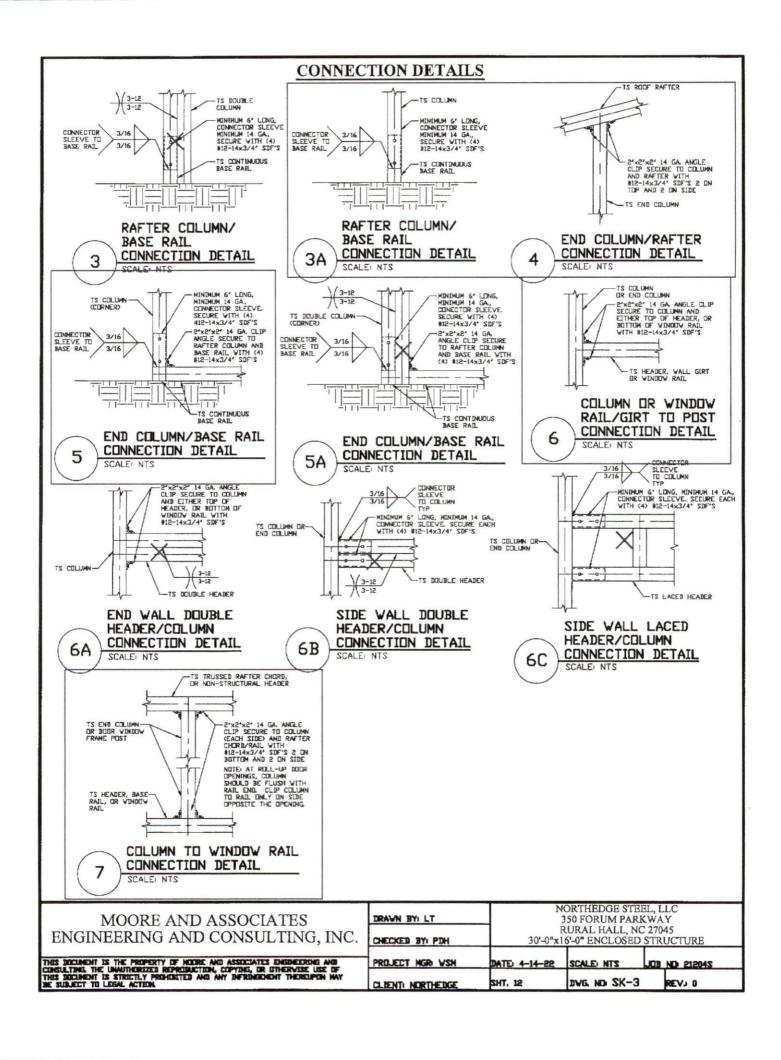
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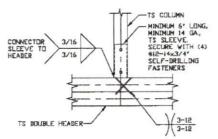
TYPICAL BOX EAVE RAFTER SIDE WALL OPENINGS FRAMING SECTION

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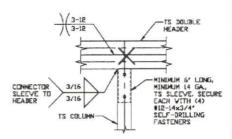
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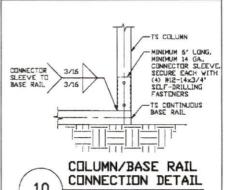
CONNECTION DETAILS



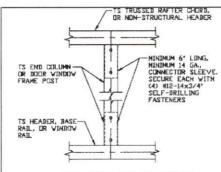
COLUMN/DOUBLE HEADER CONNECTION DETAIL 8



DOUBLE HEADER/COLUMN CONNECTION DETAIL 9

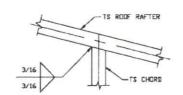


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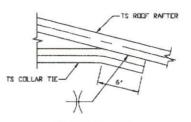


COLUMN TO HEADER OR BASE RAIL CONNECTION DETAIL SCALE: NTS

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RAFTER TO CHORD CONNECTION DETAIL 12



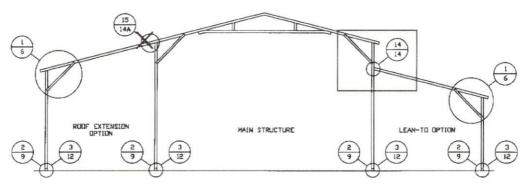
COLLAR TIE CONNECTION DETAIL 13 SCALE: NTS

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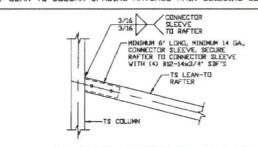
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	CHECKED BY: PDH		27045 STRUCTURE			
	DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY				

BOX EAVE RAFTER LEAN-TO OPTIONS



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

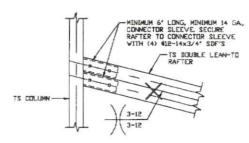
MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS NOT APPLICABLE FOR 35 PSF < TO < 60 PSF SL)
MAXIMUM HEIGHT OF A MAIN STRUCTURE SINGLE COLUMN WITH LEAN-TO OR ROOF EXTENSION IS 12'-0' FOR < 35 PSF SL)
REFERENCE RAFTER COLUMN CONNECTION DETAILS FOR APPROPRIATE COLUMN HEIGHT AND TUBING SPECIFICATION. NOTE: LEAN-TO COLUMN SPACING MATCHES MAIN BUILDING COLUMN SPACING.



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS ≤ 10'-0' WITH 35 PSF < TO ≤ 60 PSF SL AND FOR RAFTER SPANS 12'-0" WITH & 35 PSF SL

14

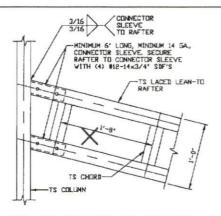
14B



LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 10'-0" < TO ≤ 16'-0" WITH 35 PSF < TD < 60 PSF SL AND FOR RAFTER SPANS 12'-0" < T□ ≤ 16'-0"

14A

SCALE: NTS



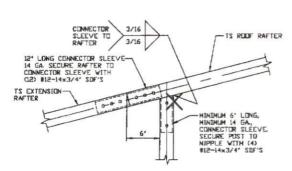
LEAN-TO RAFTER TO RAFTER COLUMN CONNECTION DETAIL FOR RAFTER SPANS 16'-0" < T□ < 24'-0"

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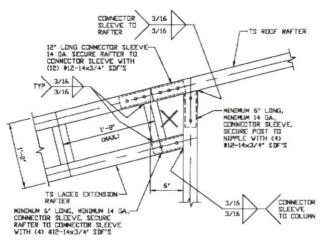
DRAWN BY: LT	NORTHEDGE STEEL, LLC 350 FORUM PARKWAY RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE				
PROJECT HGR: VSH	DATE: 4-14-22	SCALE: NTS	JOS	ND 21204S	
CLIENT: NORTHEDGE	SHT. 14	DWG ND SK-	3	REV. 0	

BOX EAVE RAFTER LEAN-TO OPTIONS



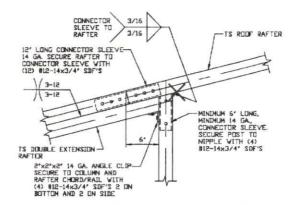
SIDE EXTENSION RAFTER/ COLUMN CONNECTION DETAIL FOR RAFTER SPANS \(\) 10'-0' WITH 35 PSF \(\) TO \(\) 60 PSF SL AND FOR RAFTER SPANS 12'-0' WITH & 35 PSF SL

15



SIDE EXTENSION RAFTER/COLUMN DETAIL FOR RAFTER SPANS 16'-0" < T□ < 24'-0"

15B SCALE: NTS

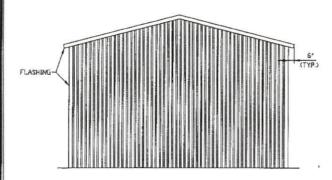


SIDE EXTENSION RAFTER/COLUMN CONNECTION DETAIL FOR RAFTER SPANS 10'-0' < T□ < 16'-0' WITH
35 PSF < T□ < 60 PSF SL AND F□R
RAFTER SPANS 12'-0' < T□ < 16'-0'
WITH
35 PSF SL

15A) SCALE: NTS

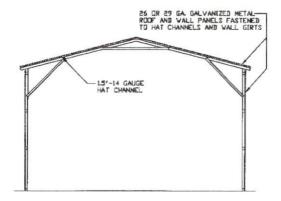
MOORE AND ASSOCIATES ENGINEERING AND CONSULTING, INC.	TES DRAWN BY: LT 350 FORUM PA		ORTHEDGE STEI 350 FORUM PARI RURAL HALL, NO 6'-0" ENCLOSED	KWAY C 27045	
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BOX EAVE RAFTER VERTICAL ROOF/SIDING OPTION



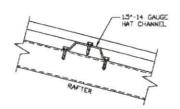
TYPICAL END ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



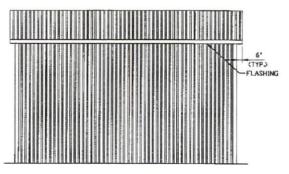
TYPICAL SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS



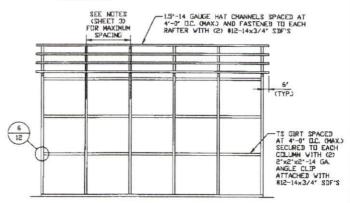
ROOF PANEL ATTACHMENT

(ALTERNATE FOR VERTICAL ROOF PANELS) SCALE: NTS



TYPICAL SIDE ELEVATION VERTICAL ROOF/SIDING

SCALE: NTS



TYPICAL FRAMING SECTION VERTICAL ROOF/SIDING OPTION

SCALE: NTS

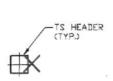
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NORTHEDGE STEEL, LLC 350 FORUM PARKWAY RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE				
DATE 4-14-22	SCALE NTS			
	30'-0"x	350 FORUM PA RURAL HALL, 30'-0"x16'-0" ENCLOSE DATE 4-14-22 SCALE NTS	350 FORUM PARKWA RURAL HALL, NC 270 30'-0"x16'-0" ENCLOSED STR	350 FORUM PARKWAY RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE DATE 4-14-22 SCALE NTS JOB ND 21204S

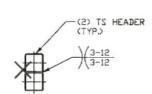
SIDE WALL HEADER OPTIONS

NOTE: HEADER DESIGN DOES NOT TAKE IN TO ACCOUNT ADDITIONAL ROOF LOADING FROM ATTACHED LEAN-TO STRUCTURES.



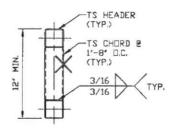
HEADER DETAIL FOR DOOR OPENINGS LENGTHS < 5'-0"

SCALE: NTS



HEADER DETAIL FOR
DOOR OPENINGS
5'-0" < LENGTHS \(\) 9'-0" WITH
35 PSF < TO \(\) 60 PSF SL AND
5'-0" < LENGHTS \(\) 10'-0"
WITH SL \(\) 35 PSF

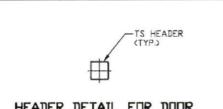
SCALE: NTS



HEADER DETAIL FOR
DOOR OPENINGS
9'-0' < LENGTHS \(\) 16'-0' WITH
35 PSF < TO < 60 PSF SL AND
10'-0' < LENGHTS < 16'-0'
WITH \(\) 35 PSF SL

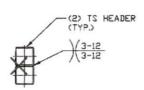
SCALE: NTS

END WALL HEADER OPTIONS



HEADER DETAIL FOR DOOR OPENINGS LENGTHS < 14'-0'

SCALE: NTS



HEADER DETAIL FOR
DOOR OPENINGS
14'-0" < LENGTHS \(\) 16'-0"

SCALE: NT

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ENGINEERING AND CONSULTING, INC.	CHECKED BY: PDH		NORTHEDGE STEEL, LLC 350 FORUM PARKWAY RURAL HALL, NC 27045 30'-0"x16'-0" ENCLOSED STRUCTURE		
MOORE AND ASSOCIATES	DRAWN BY: LT	3			AY