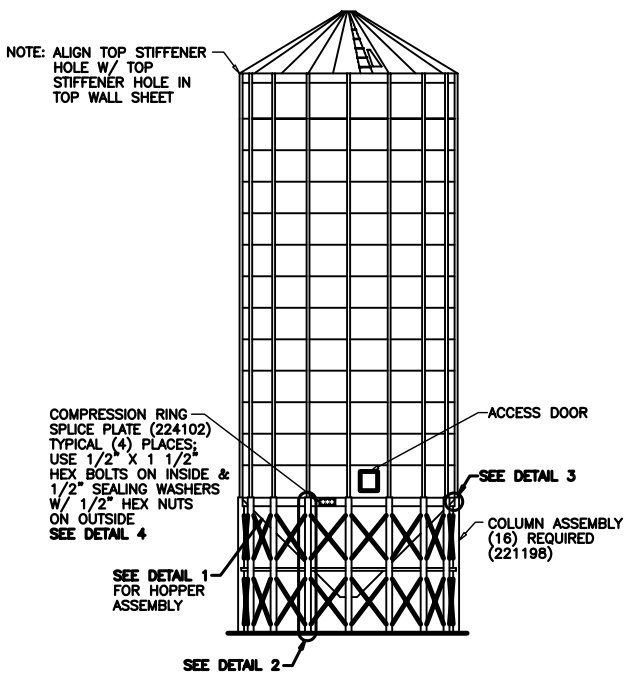
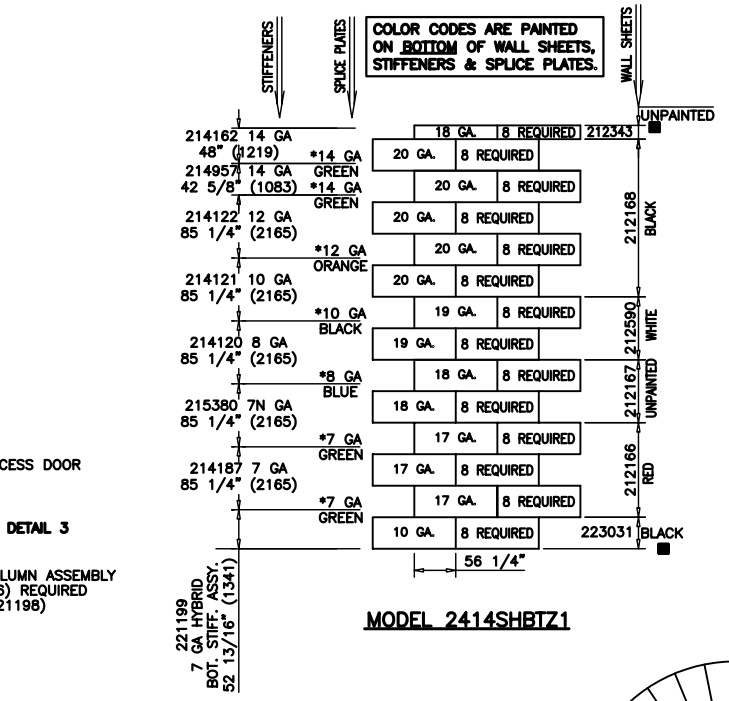


SILO ELEVATION VIEW



MODEL 2414SHBTZ1

TYPICAL STIFFENER & SPLICE PLATE PROFILES				
SPLICE PLATE	STIFFENER	STIFFENER	HYBRID STIFFENER	SUPER HYBRID STIFFENER
14 GA	14 GA	7 GA	7 GA	7 GA
12 GA	12 GA			
10 GA	10 GA			
8 GA	8 GA			
7 GA	7N GA			

SAE GRADE 8 BOLTS	SAE GRADE 8.2 BOLTS
SAE GRADE 8 & SAE GRADE 8.2 BOLTS ARE ESSENTIALLY EQUAL FOR SILO ERECTION.	
SAE GRADE 5 BOLTS	SAE GRADE 2 BOLTS
	NOT ALLOWED ANYWHERE ON SCAFCO SILOS
ASTM A325 BOLTS	ASTM A307 BOLTS
USED FOR STRUCTURAL CONNECTIONS	ALLOWED ONLY FOR ANCHOR BOLTS
CONTACT SCAFCO ENGINEERING DEPARTMENT BEFORE SUBSTITUTING ANY BOLTS ON SILOS.	

NOTES:
1. TOP WALL SHEETS ARE PUNCHED @ 3-1/8" (79 mm) O.C. AT THE TOP OF THE SHEET AND @ 9-3/8" (238 mm) O.C. AT THE BOTTOM.
2. UPPER WALL SHEET RING ALWAYS OVERLAPS THE WALL SHEET RING BELOW IT. NO FIELD-DRILLING IS NECESSARY TO MATCH HOLES.
3. BOTTOM RING OF WALL SHEETS HAS INWARD FLANGE.
4. * INDICATES SPLICE PLATE (SEE CHART FOR PART NO.).
5. **TO PREVENT STRIPPING OFF THE SEALING WASHER FROM THE BOLT HEAD, ALWAYS DRIVE THE NUT (INSTEAD OF THE BOLT) TO FASTEN CONNECTIONS.**

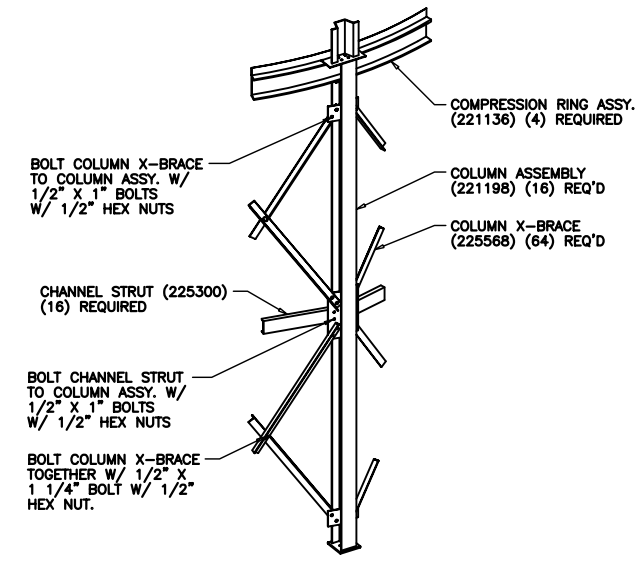
WALLSHEET-TO-WALLSHEET CONNECTION
1. HORIZONTAL SEAMS - USE 3/8" x 1" (10 mm x 25 mm) GR. 8.2 BOLTS (290103).
2. HORIZONTAL SEAMS - ALL BOLT SPACING IS @ 9-3/8" (238 mm) O.C., EXCEPT THOSE MARKED ■, BOLT SPACING IS @ 3-1/8" (79 mm) O.C.
3. VERTICAL SEAMS - USE 3/8" x 1" (10 mm x 25 mm) GR. 8.2 BOLTS (290103).

STIFFENER-TO-WALLSHEET CONNECTION
1. USE 3/8" x 1" (10 mm x 25 mm) GR. 8.2 BOLTS (290103).

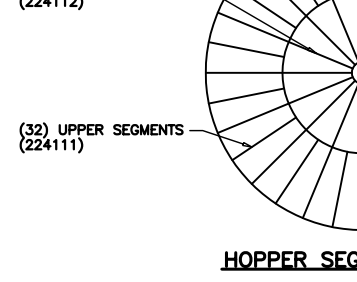
SPLICE PLATE-TO-STIFFENER-TO-WALLSHEET CONNECTION
1. USE 3/8" x 1" (10 mm x 25 mm) GR. 8.2 BOLTS (290103), EXCEPT THOSE MARKED ▲, USE 3/8" x 1-1/4" (10 mm x 32 mm) GR. 8.2 BOLTS (290389).

SPLICE PLATE FLANGE-TO-STIFFENER FLANGE CONNECTION
1. USE 3/8" x 1" (10 mm x 25 mm) GR. 8.2 BOLTS (290103).

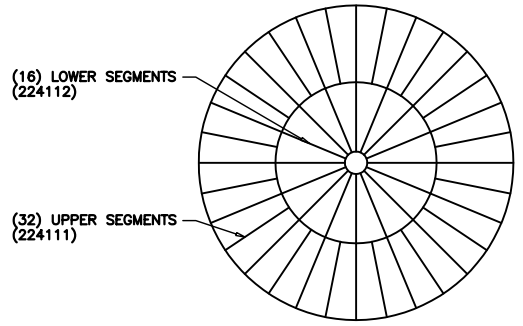
SPLICE PLATES		
GAUGE	PART NO.	COLOR CODE
7 GA.	214194	GREEN
8 GA.	214130	BLUE
10 GA.	214124	BLACK
12 GA.	214192	ORANGE
14 GA.	214400	GREEN



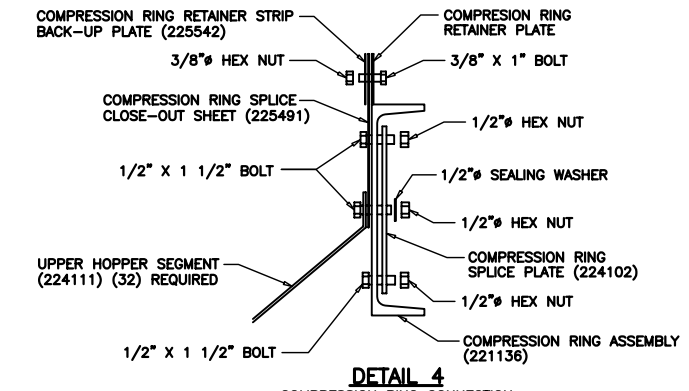
DETAIL 2
STRUT-BRACE-COLUMN CONNECTION



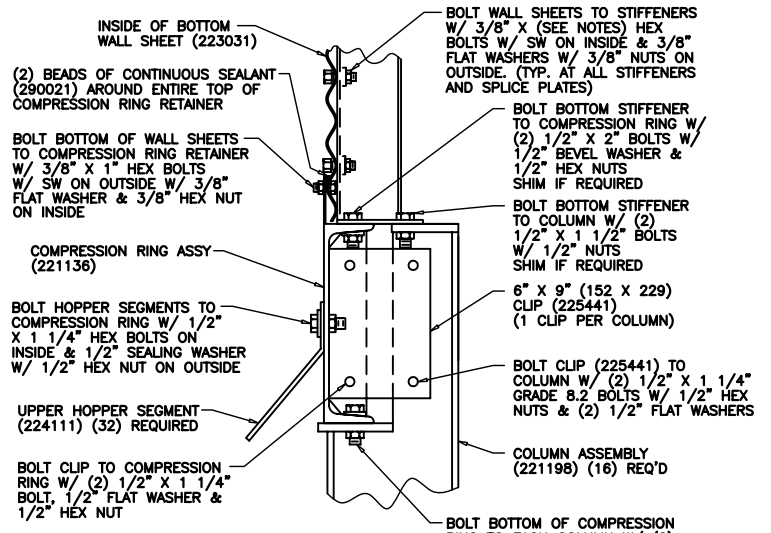
HORIZONTAL SEAM



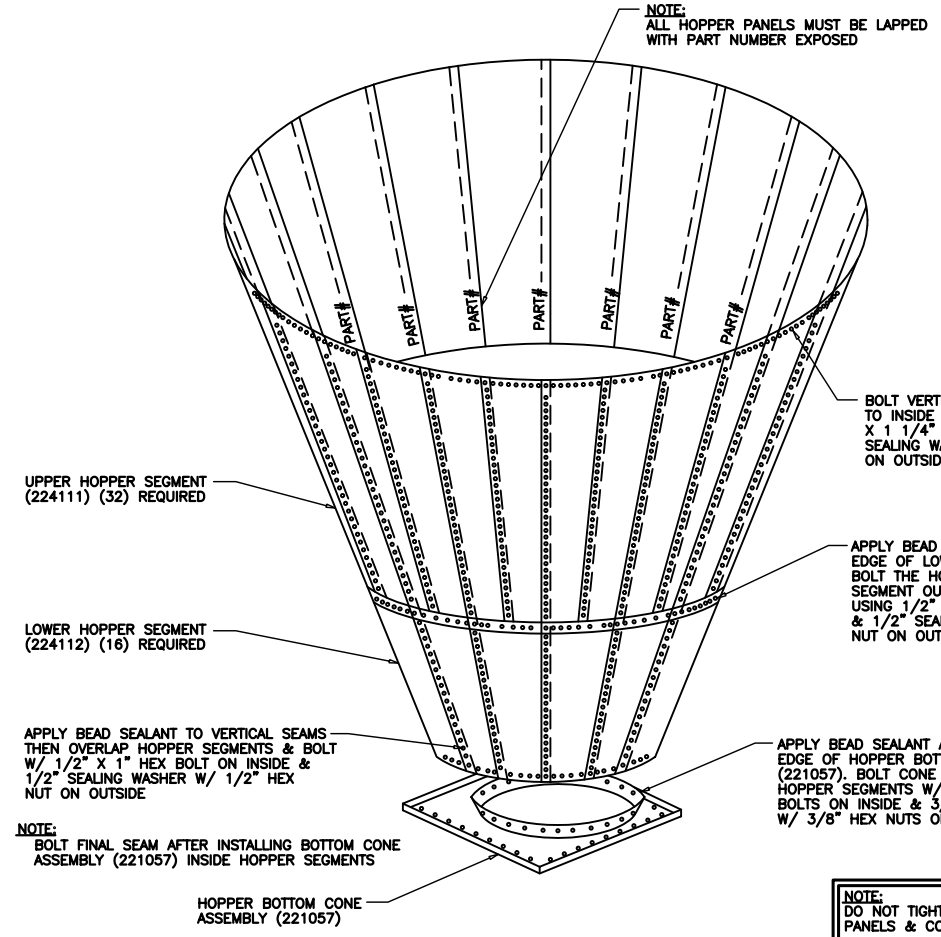
HOPPER SEGMENT LAYOUT



DETAIL 4
COMPRESSION RING CONNECTION

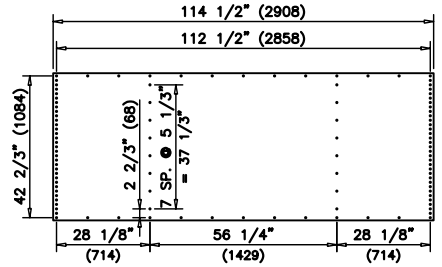


DETAIL 3
COLUMN-HOPPER-WALL CONNECTION

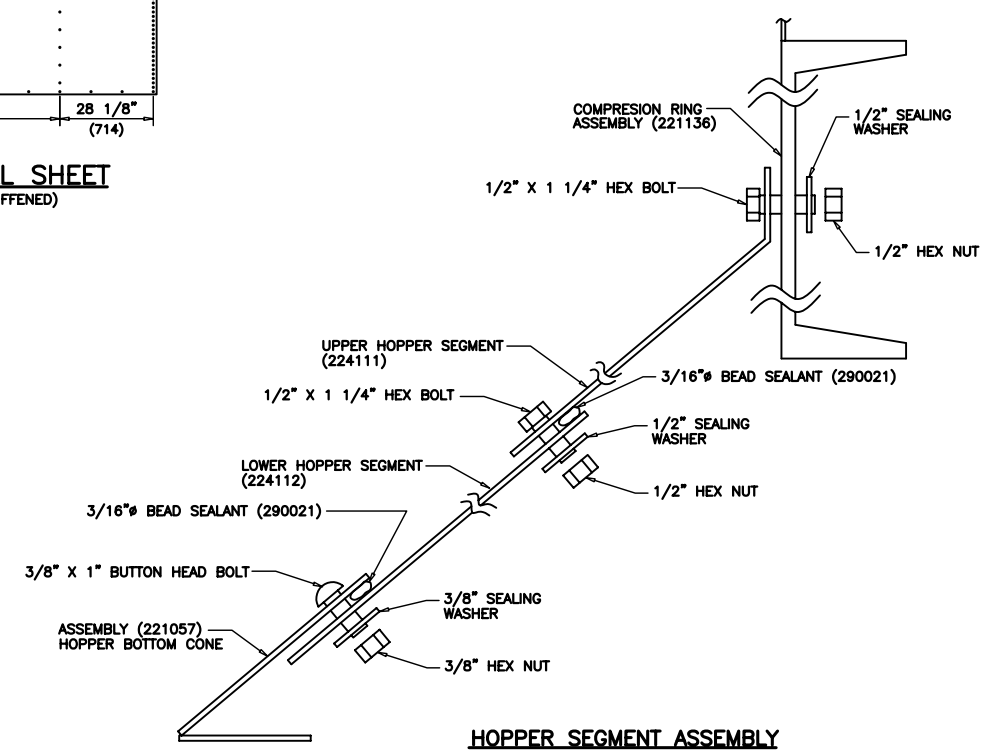


DETAIL 1
HOPPER ASSEMBLY

NOTE:
DO NOT TIGHTEN BOLTS UNTIL ALL PANELS & CONE ARE IN PLACE!



TYPICAL WALL SHEET
(EXTERNALLY STIFFENED)



HOPPER SEGMENT ASSEMBLY

HARDWARE DESCRIPTION		
DESCRIPTION	mm	PART NO.
3/8" X 1" BH BOLT GRADE 8	10 X 25	290158
3/8" X 1" HH BOLT W/ SW GRADE 8.2	10 X 25	290103
3/8" HEX NUT	10	290014
3/8" FLAT WASHER	10	290013
3/8" SEALING WASHER	10	290042
1/2" X 1" HH BOLT W/ SW GRADE 8.2	12 X 25	290415
1/2" X 1 1/4" HH BOLT W/ SW GRADE 8.2	12 X 32	290391
1/2" X 1 1/2" HH BOLT GRADE 8	12 X 38	290148
1/2" X 2" HH BOLT GRADE 8	12 X 51	290149
1/2" HEX NUT	12	290018
1/2" SEALING WASHER, REVERSE USAGE	12	290104A
1/2" FLAT WASHER	12	290017
1/2" BEVEL WASHER	12	290412

REV	BY	DATE	DESCRIPTION OF CHANGE

SCAFCO Grain Systems Company
SCAFCO Corporation
6200 E. Main Avenue
PO Box 11215
Spokane, WA 99211-1215, USA
Tel: 509-535-1571 * Fax: 509-535-9130 * mail@scafco.com * www.scafco.com

ALL DIMENSIONS IN INCHES - TOLERANCES - LINEAR ±1/16", ANGULAR ±1° (Except as noted)

2414SHBTZ1

WALL SHEET STRETCHOUT & ERECTION DRAWING

	BY	DATE	DRAWING NO.:	REV.
DRAWN	EPR	19DEC01	ED2414SHBTZ1	
CHECKED				
APPROVED			SCALE: NTS	SHEET: 1 OF 1