

Tower Dryer

Model U2012

Parts Assembly

Sukup Manufacturing Co.
1555 - 255th Street P.O. Box 677
Sheffield, Iowa 50475 USA

<u>DATE</u>	<u>REVISIONS</u>	<u>PAGES</u>
01/25/2020 – Revised drawing U10780; Added new drawing T50780	-----	69, 70

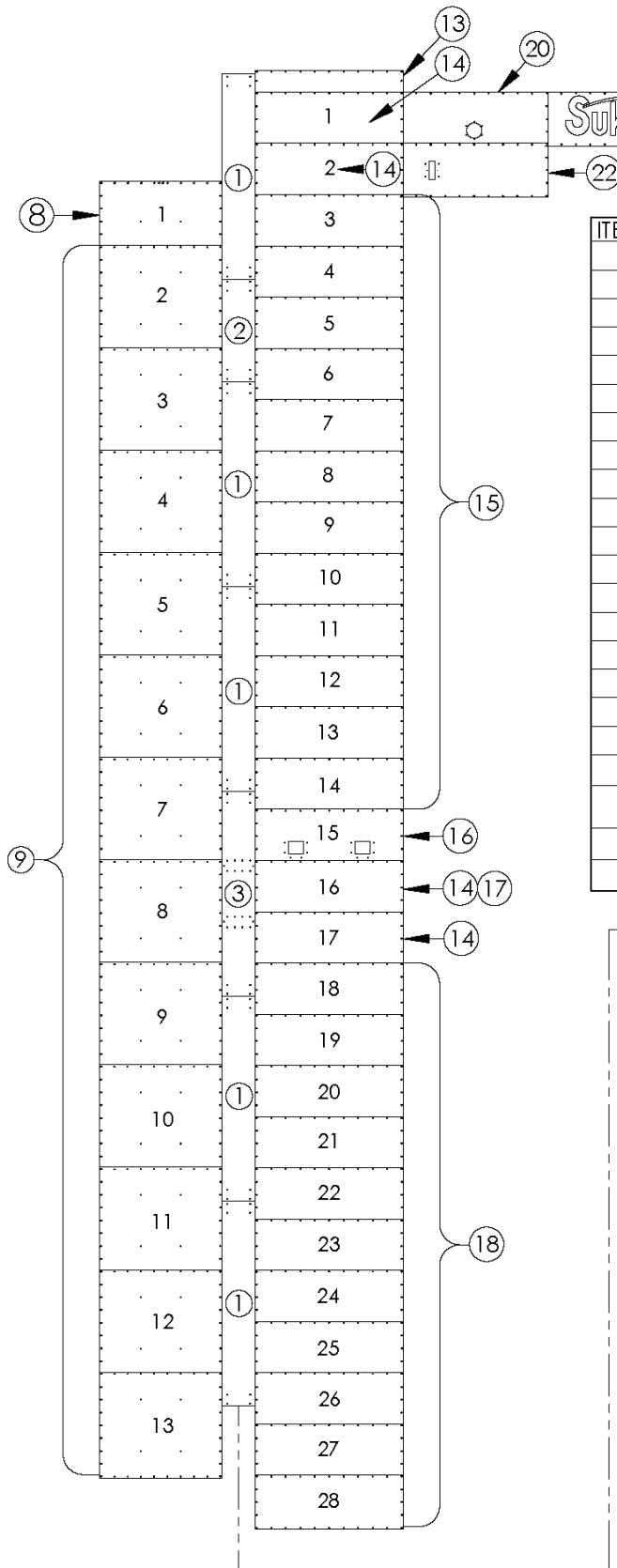
#L14793
01/25/2020

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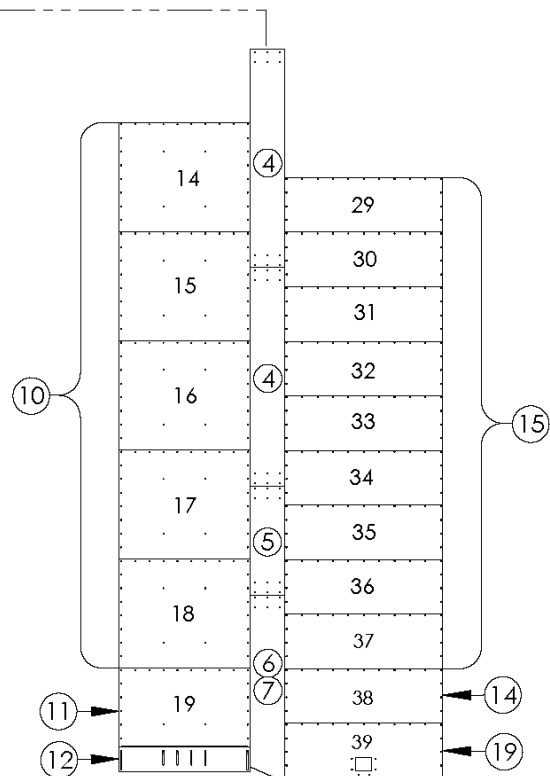
Technical drawing of a 16" angle ring ready tower. The drawing shows a vertical cross-section of the tower with various dimensions and labels. The overall height is 75'-7". The diameter is Ø 19'-2" OVERALL. The tower is composed of several sections with varying heights: 16'-0", 11'-11", 13'-4", 17'-1", 15'-10", and 9'-7". The base is labeled 16" ANGLE RING READY. The top is labeled 14" ANGLE RING. The drawing also shows a 14'-10" section and a 43'-6" section. The base is supported by a 16" angle ring ready structure. The drawing includes a note: "Material is property of the field, Iowa, USA. Material is detrimental to the environment."

KJ05/2013

U2012 COLUMN LAYOUT

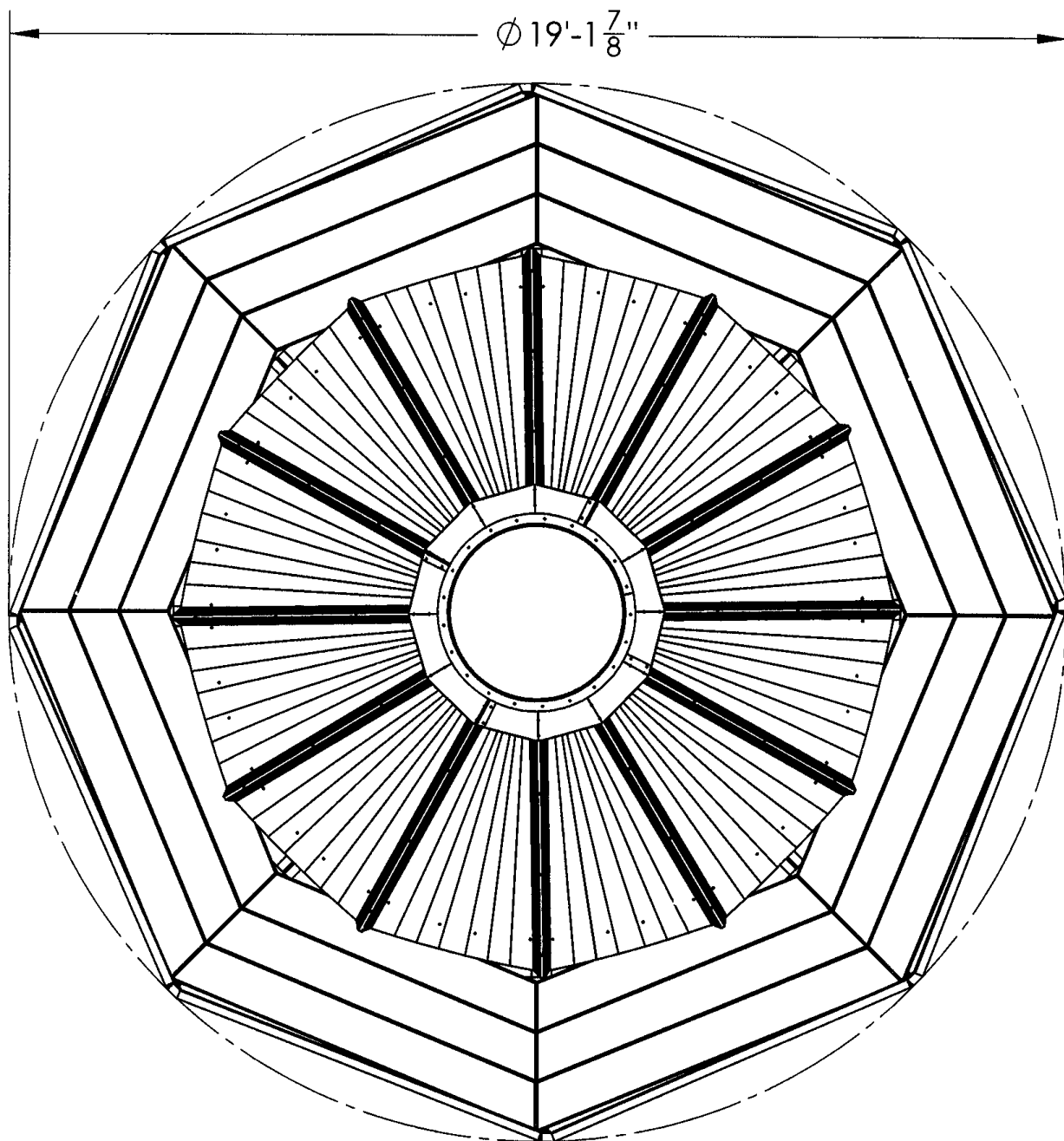


ITEM #	PART #	DESCRIPTION
1	U10106	COLUMN, 10 GA. X 80"
2	U10205	COLUMN, 10 GA. X 40"
3	U10206	COLUMN, GRAIN TURN, 10 GA. X 80"
4	U10105	COLUMN, 7 GA. X 80"
5	U10204	COLUMN, 7 GA. X 40"
6	U10708	BOTTOM COLUMN RIGHT, 68"
7	U10709	BOTTOM COLUMN LEFT, 68"
8	U12441	TOP INNER UPPER STARTER PERF .063
9	U12144	INNER UPPER PERF .078, 16 GA
10	U12145	INNER LOWER PERF .063, 18 GA
11	U12142	INNER BOTTM SOLID
12	U12147	FLOW CONTROL SLIDE PANEL
13	U18170	OUT TOP EAVE ATTACHMENT RING
14	U10141	OUTER SOLID SS 22GA.
15	U10143	OUTER PERF .078
16	U10156	OUTER PERF W/ CLEAN OUT, .078
17	U10164	BACKING PANEL@ GRAIN TURNER
18	U10142	OUTER PERF .0625
19	U10155	OUTER SOLID W/CLEAN OUT, SS 22GA.
20	U10141L	OUTER SOLID SS 22GA.W/LEVEL INDICATOR CUTOUT
21	U10141S	OUTER SOLID SS 22GA. SUKUP LOGO
22	U10141M	OUTER SOLID SS, MOISTURE SENSOR

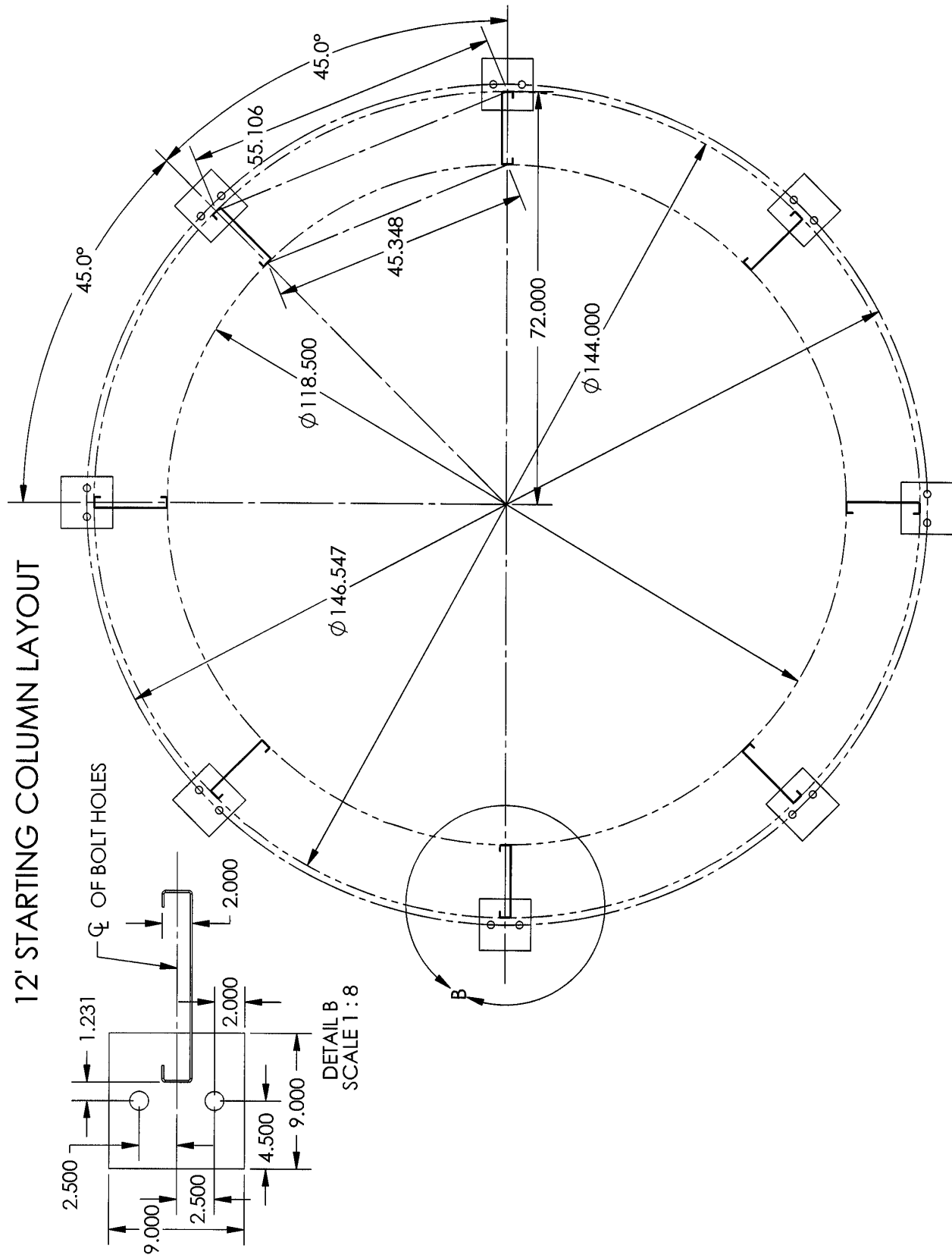


2011KJ

12' DIA. TOWER DRYER OVERALL DIMENSION



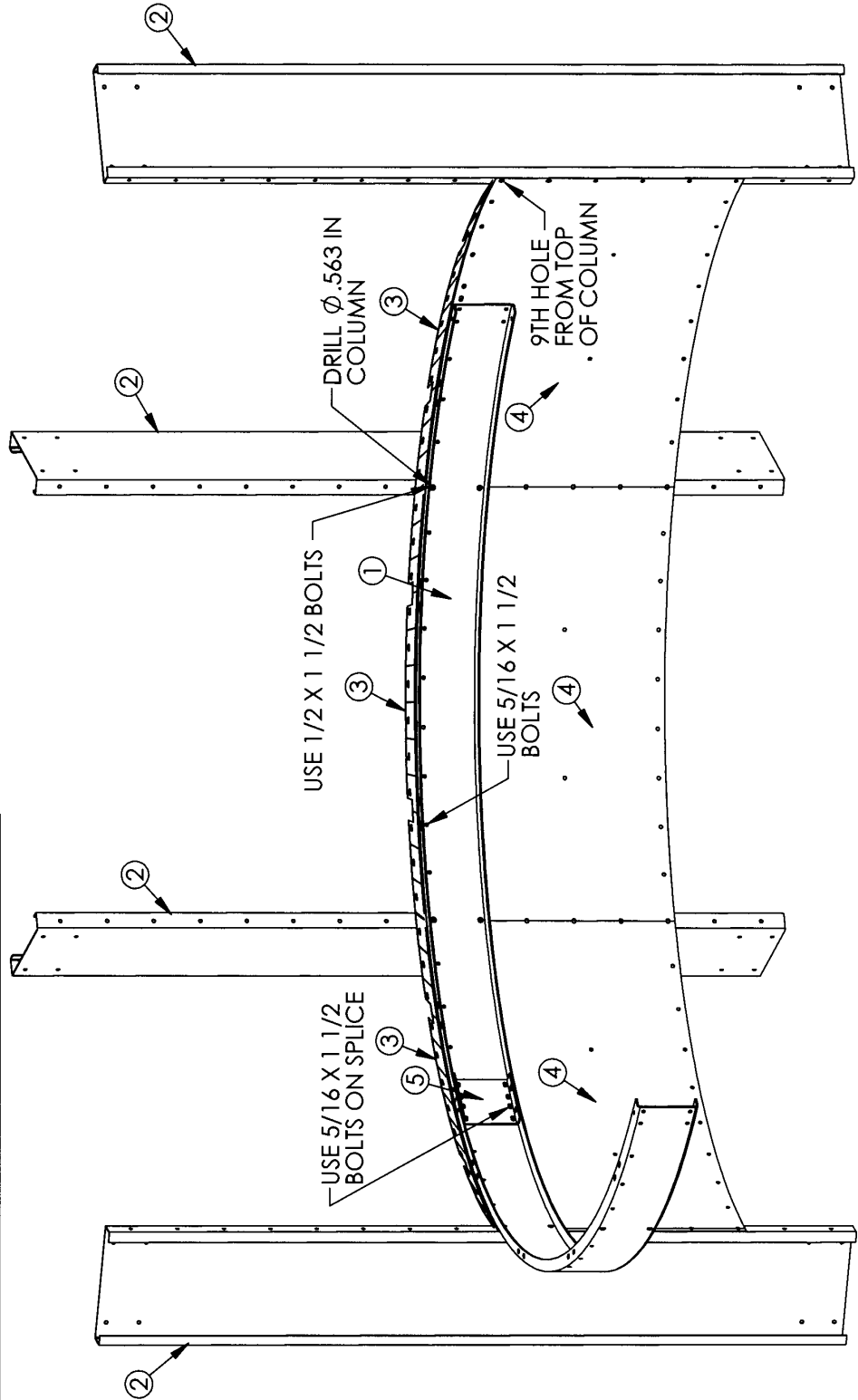
12' STARTING COLUMN LAYOUT



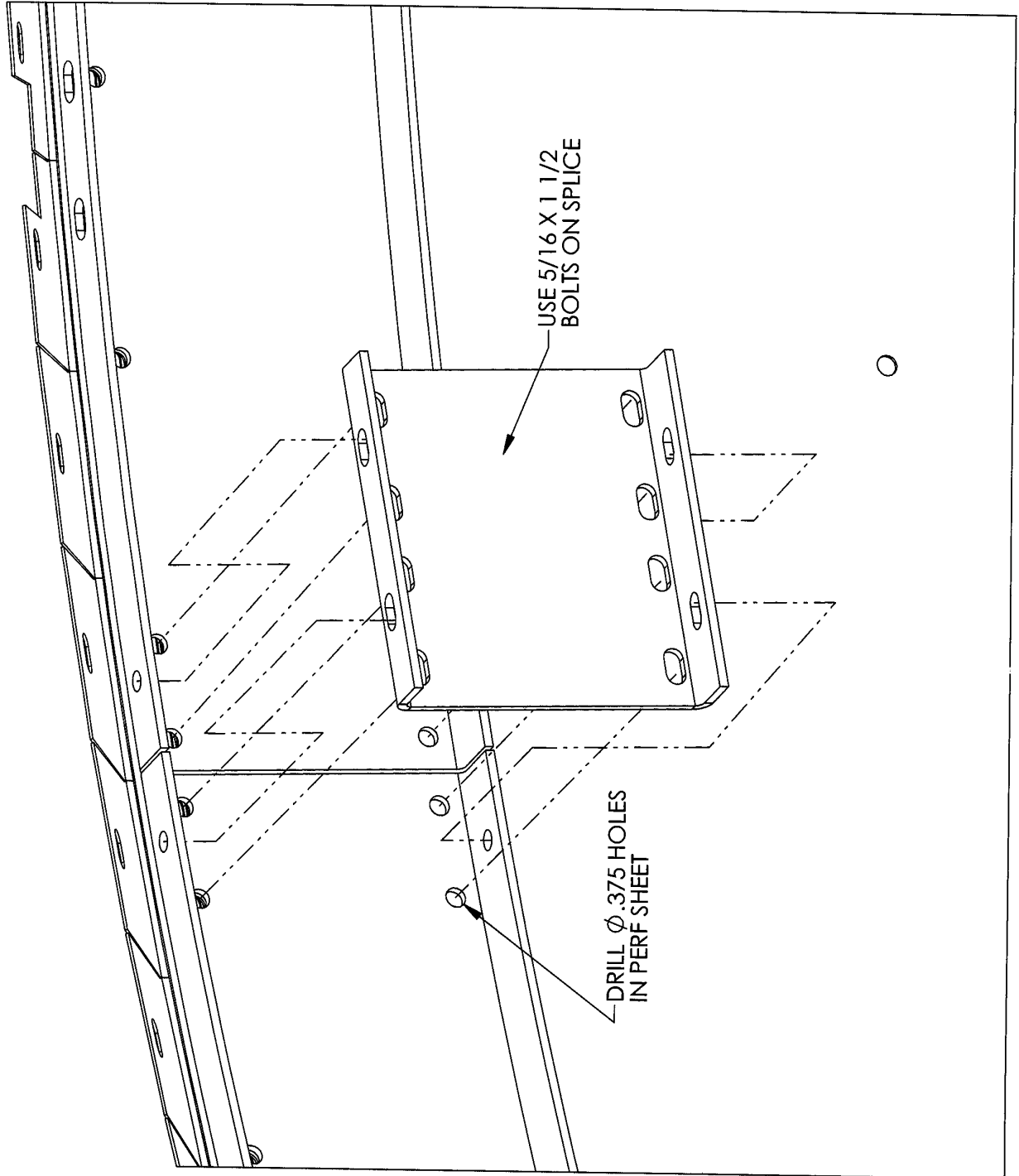
12' WET HOLDING ASSEMBLY STEP 1

REF	PART #	DESCRIPTION
1	U12131	INNER RAFTER RING
2	U10106	COLUMN, 10 GA. X 80"
3	U12130	ATTACHMENT RING, FLOOR, WET HOLD
4	U12141	INNER UPPER STARTER PERF .078
5	U10138	SPLICE INNER RAFTER RING

NOTE: 1. C-RING ON TOP OF PERF AND ATTACHMENT RING FOR FLOOR PANELS BEHIND PERF SHEET.

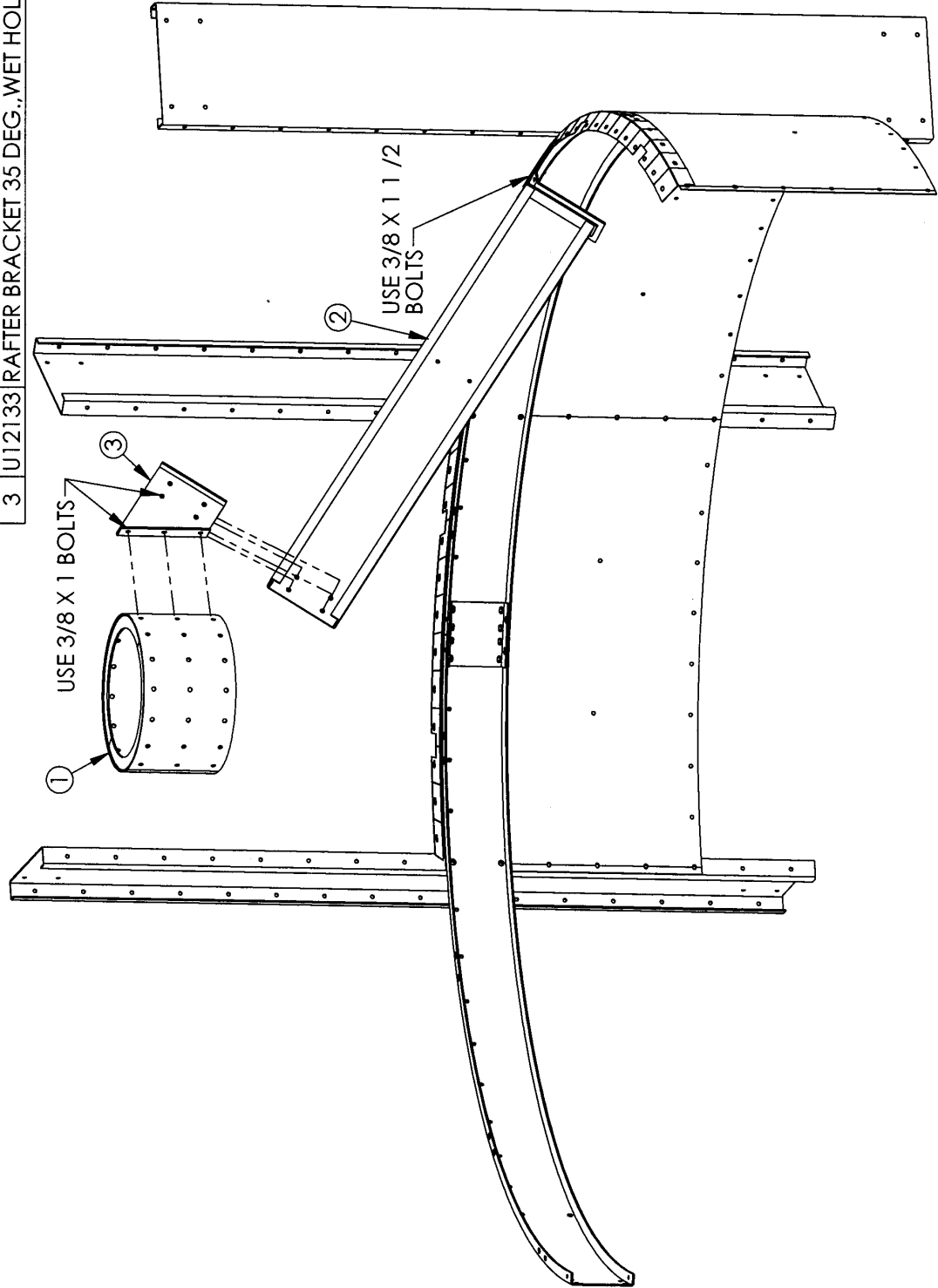


C-RING SPLICE ASSEMBLY



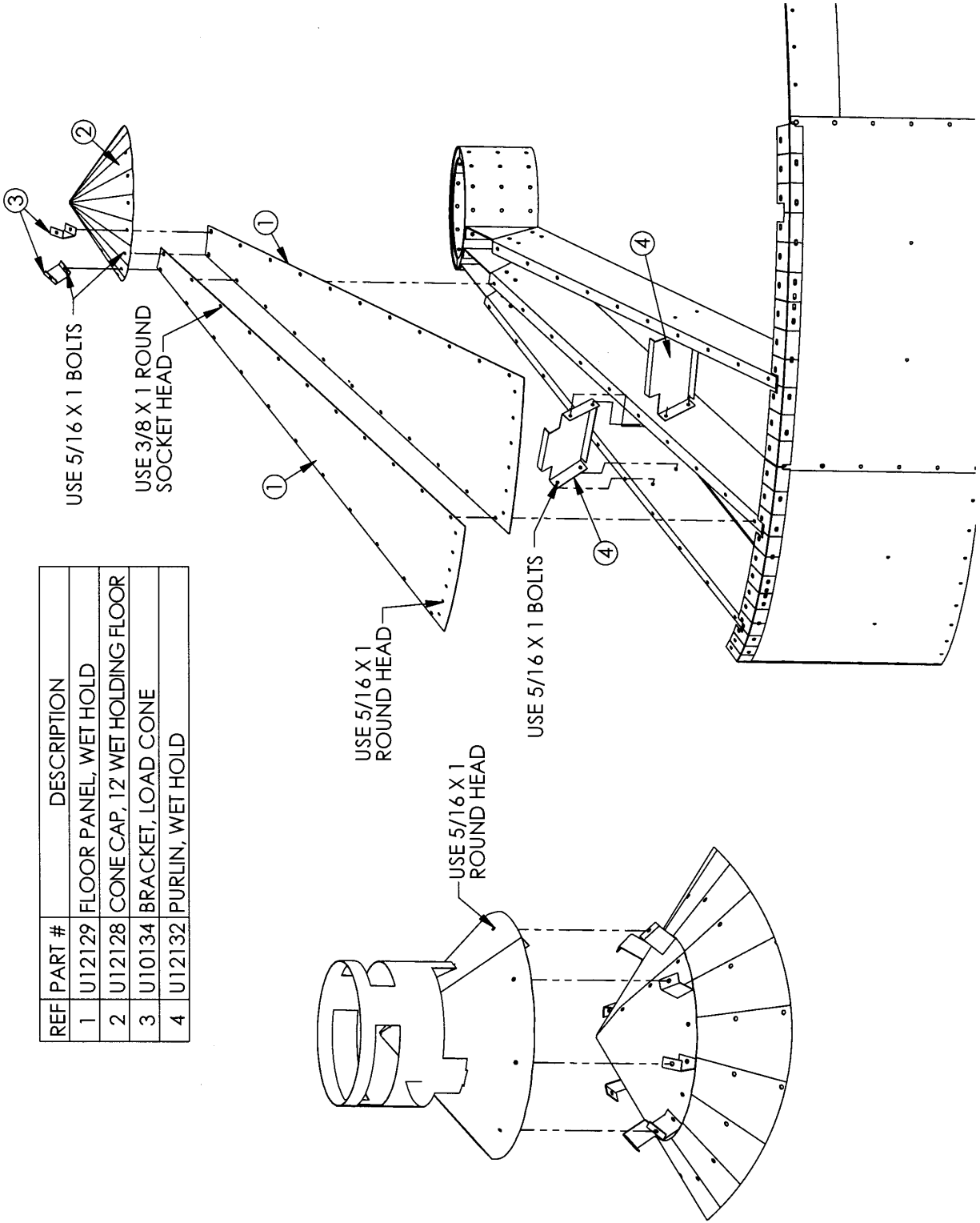
12' WET HOLDING ASSEMBLY STEP 2

REF	PART #	DESCRIPTION
1	U12140	PEAK RING WELDMENT, WET HOLD FLOOR
2	U12134	RAFTER WELDMENT
3	U12133	RAFTER BRACKET 35 DEG., WET HOLD



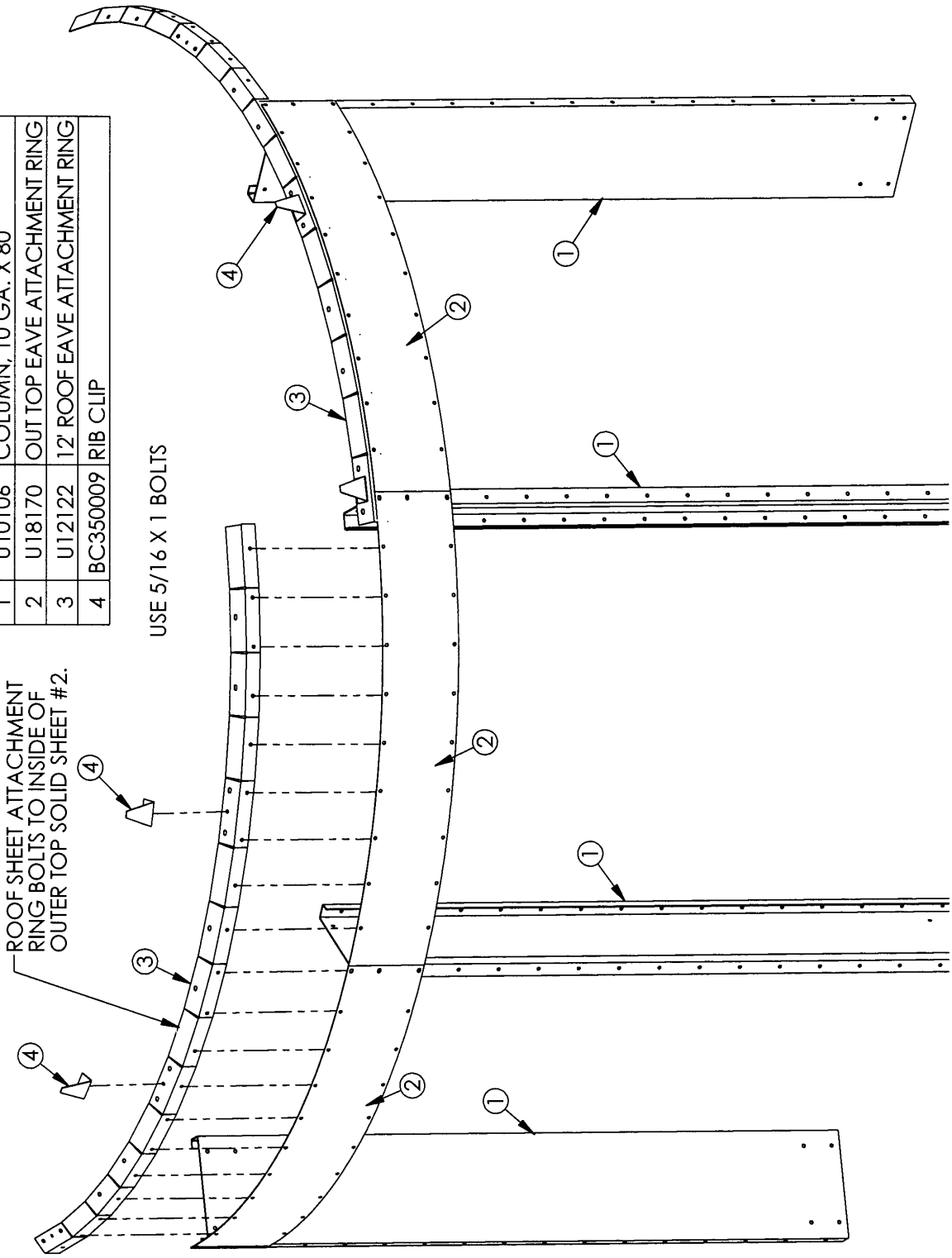
12' WET HOLDING ASSEMBLY STEP 3

REF	PART #	DESCRIPTION
1	U12129	FLOOR PANEL, WET HOLD
2	U12128	CONE CAP, 12' WET HOLDING FLOOR
3	U10134	BRACKET, LOAD CONE
4	U12132	PURLIN, WET HOLD

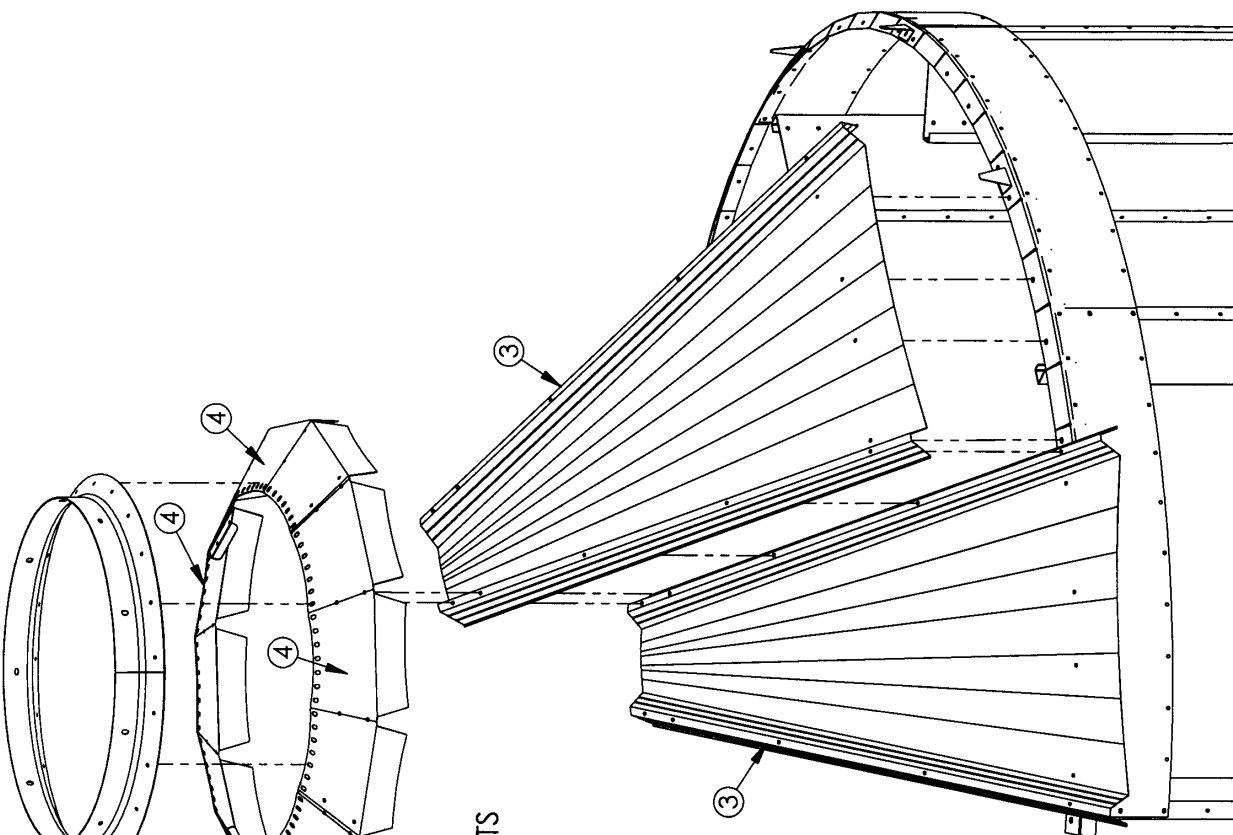


12' ROOF ASSEMBLY STEP 1

REF	PART #	DESCRIPTION
1	U10106	COLUMN, 10 GA. X 80"
2	U18170	OUT TOP EAVE ATTACHMENT RING
3	U12122	12' ROOF EAVE ATTACHMENT RING
4	BC350009	RIB CLIP



12' ROOF ASSEMBLY STEP 2

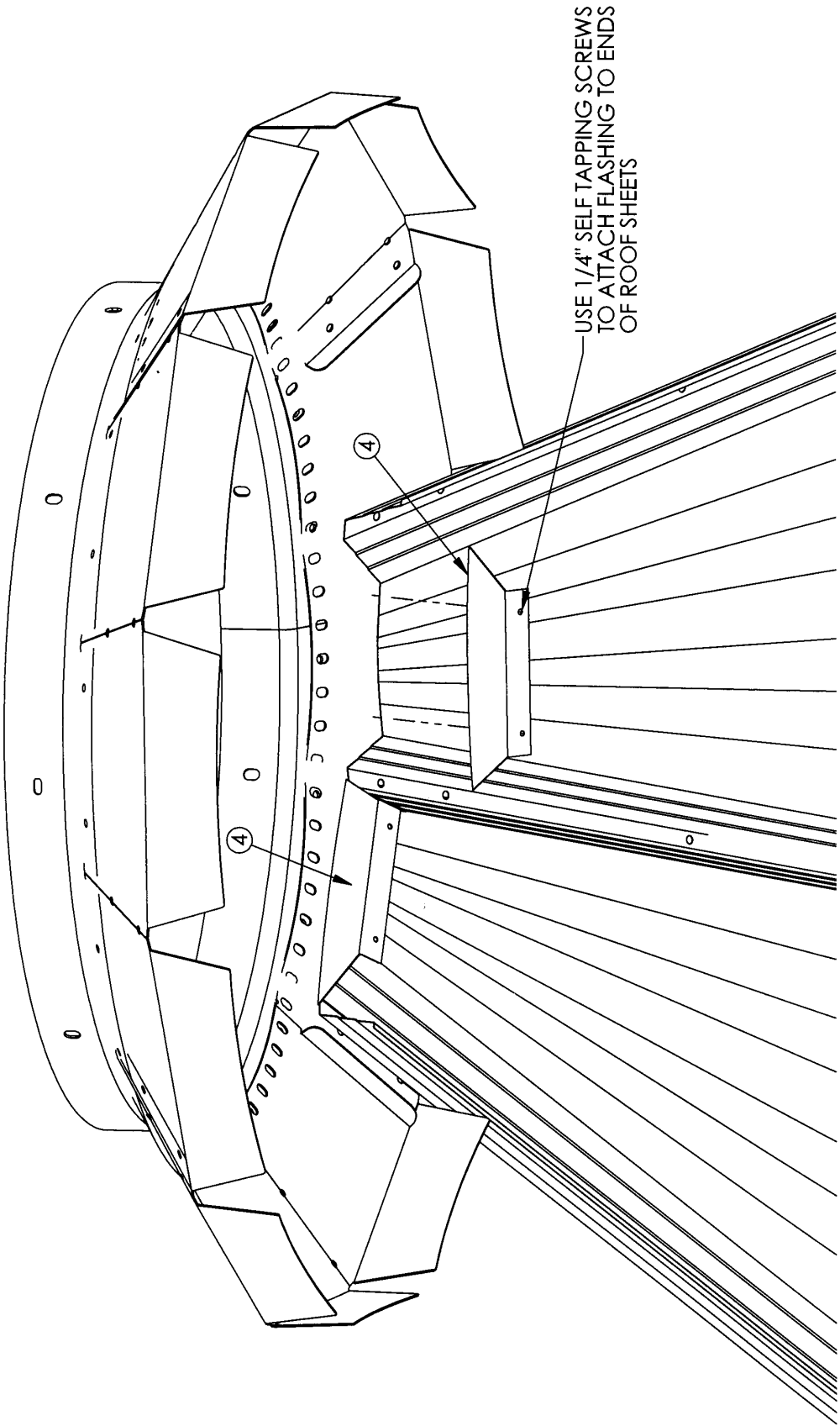


USE 5/16 X 1 1/4 FLANGE BOLTS

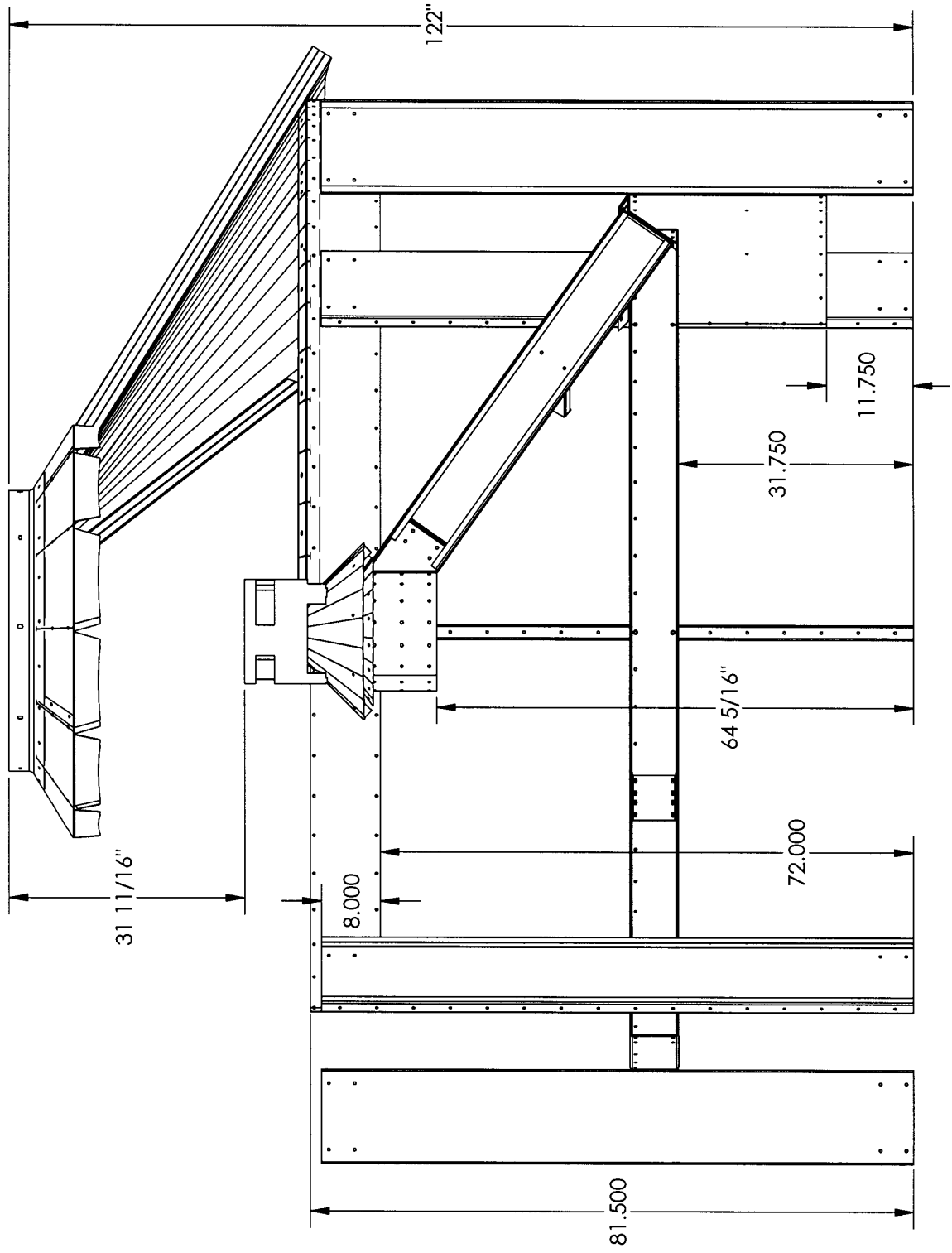
REF	PART #	DESCRIPTION
1	U12121	12' DIA ROOF SHEET
2	U12123	12' ARPON PANEL
3	B5362	PEAK RING

12' ROOF ASSEMBLY STEP 3

REF	PART #	DESCRIPTION
1	U12124	FLASHING, PEAK RING

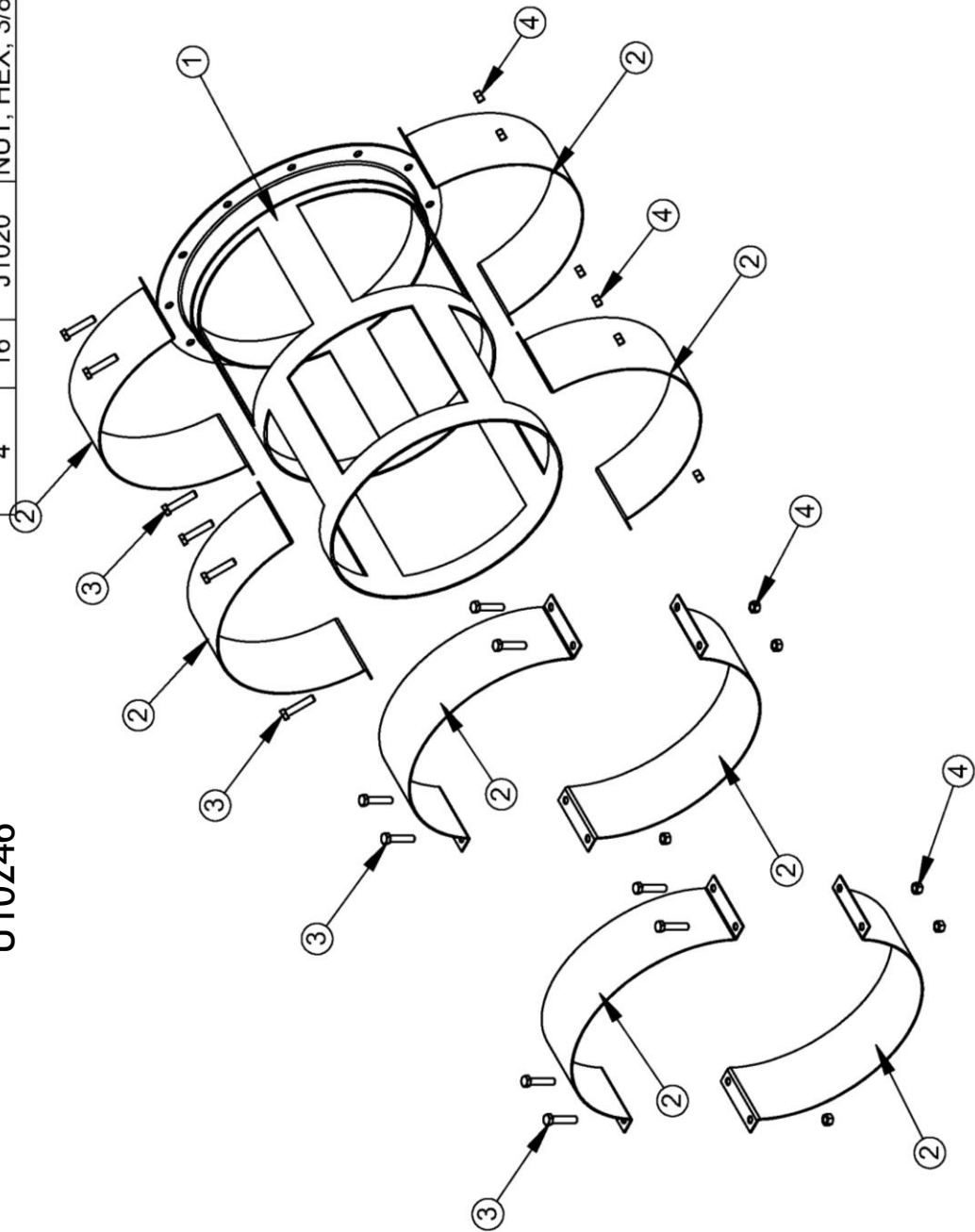


12' WET HOLD LAYOUT



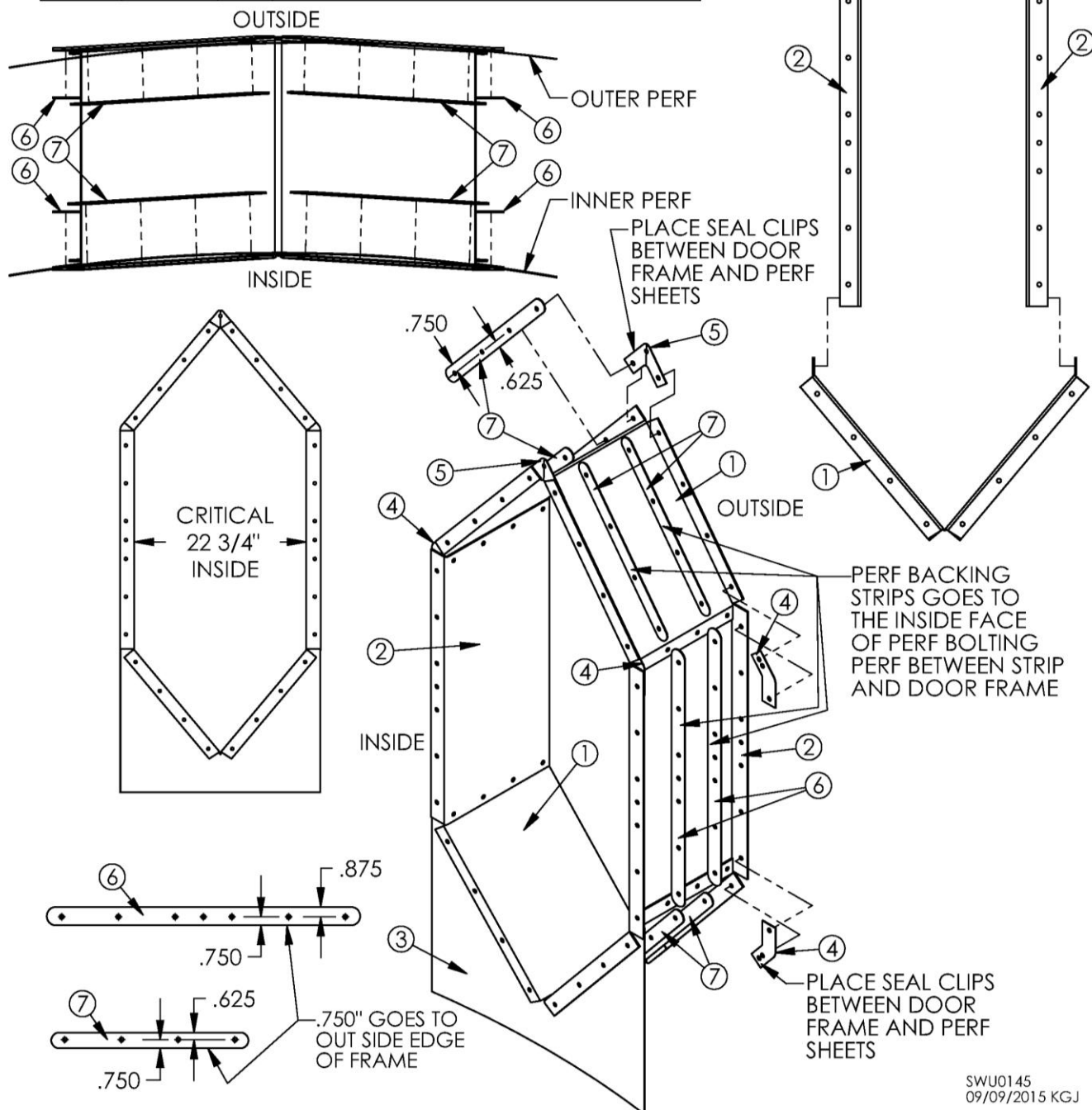
GRAIN TUBE FLOW CONTROL U10246

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	U10247	TUBE WELDMENT, FLOW CONTROL, 14"
2	8	U10248	SLEEVE CLAMP, 14", HALF
3	16	J0640	BOLT, 3/8-16, 1.75, PLT, TAP
4	16	J1020	NUT, HEX, 3/8-16, PLT



DOOR AND FREE AIR FRAME ASSEMBLY

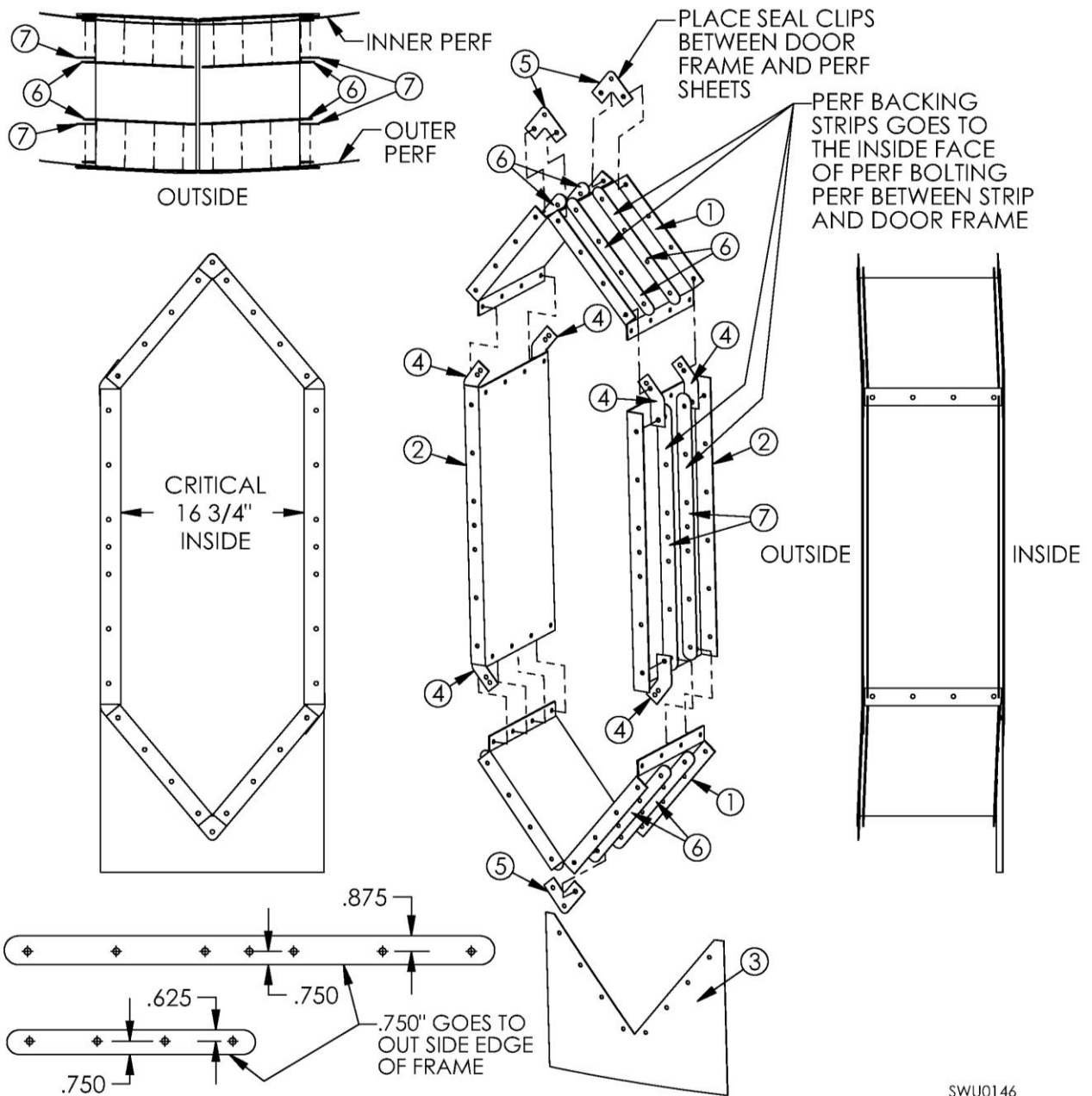
ITEM #	PART #	QTY.	DESCRIPTION
1	U18181	2	END, FREE AIR OPENING
2	U18182	2	SIDE, FREE AIR OPENING
3	U10151	1	AIR STOP PLATE, LARGE FREE AIR OPEN
4	U10232	6	FILLER 2, DOOR FRAME
5	U10231	3	FILLER 1, DOOR FRAME LARGE
6	U181821	4	PERF BACKING STRIP, SIDE
7	U181811	8	PERF BACKING STRIP



SWU0145
09/09/2015 KGJ

SMALL FREE AIR OPENING

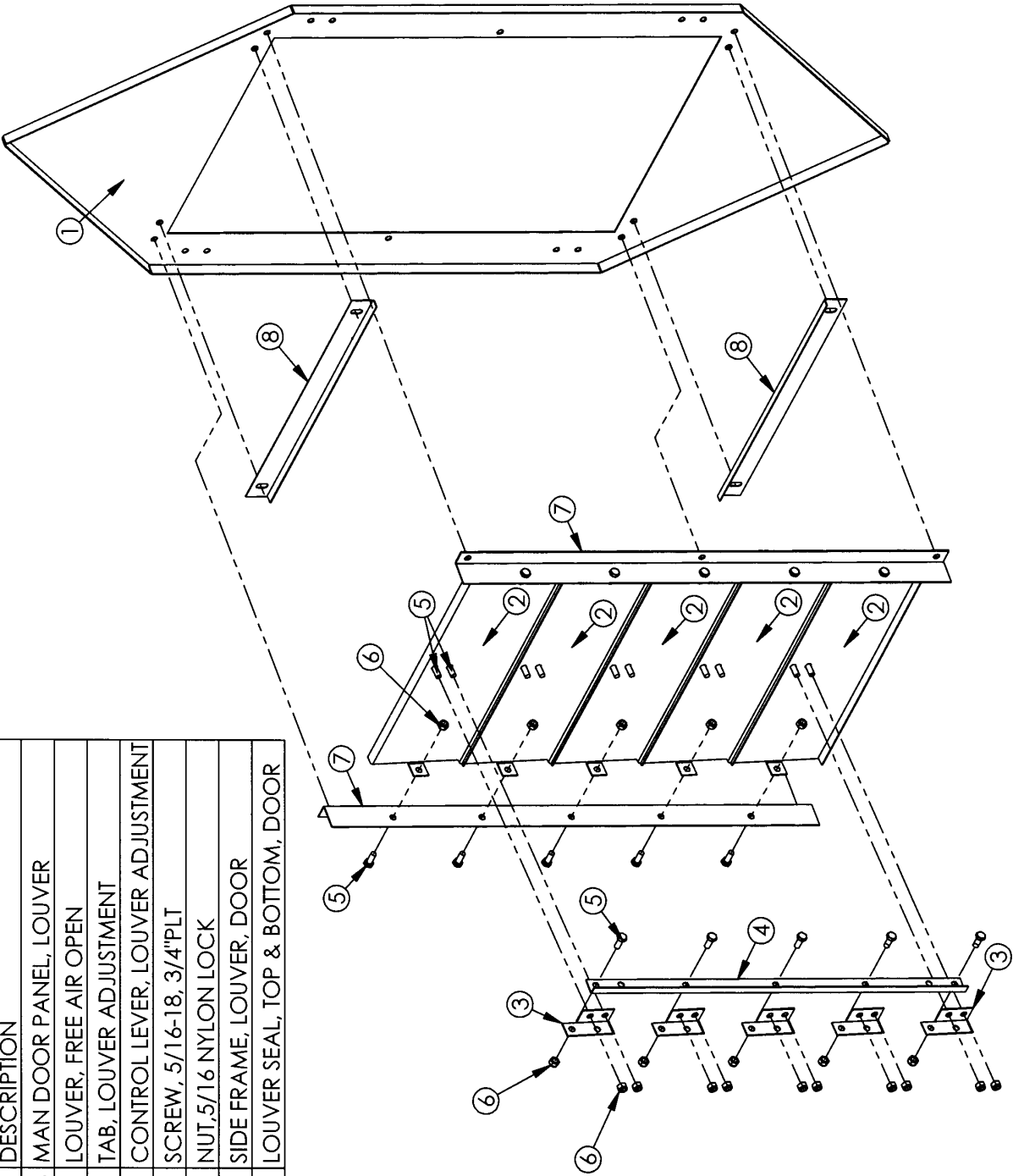
ITEM #	PART #	QTY.	DESCRIPTION
1	U18188	2	END SMALL, FREE AIR OPENING
2	U18182	2	SIDE, FREE AIR OPENING
3	U10152	1	AIR STOP PLATE, SMALL FREE AIR OPEN
4	U10232	6	FILLER 2, DOOR FRAME
5	U10233	3	FILLER 1, DOOR FRAME SMALL
6	U181881	8	PERF BACKING STRIP
7	U181821	4	PERF BACKING STRIP, SIDE



SWU0146
09/09/2015 KGJ

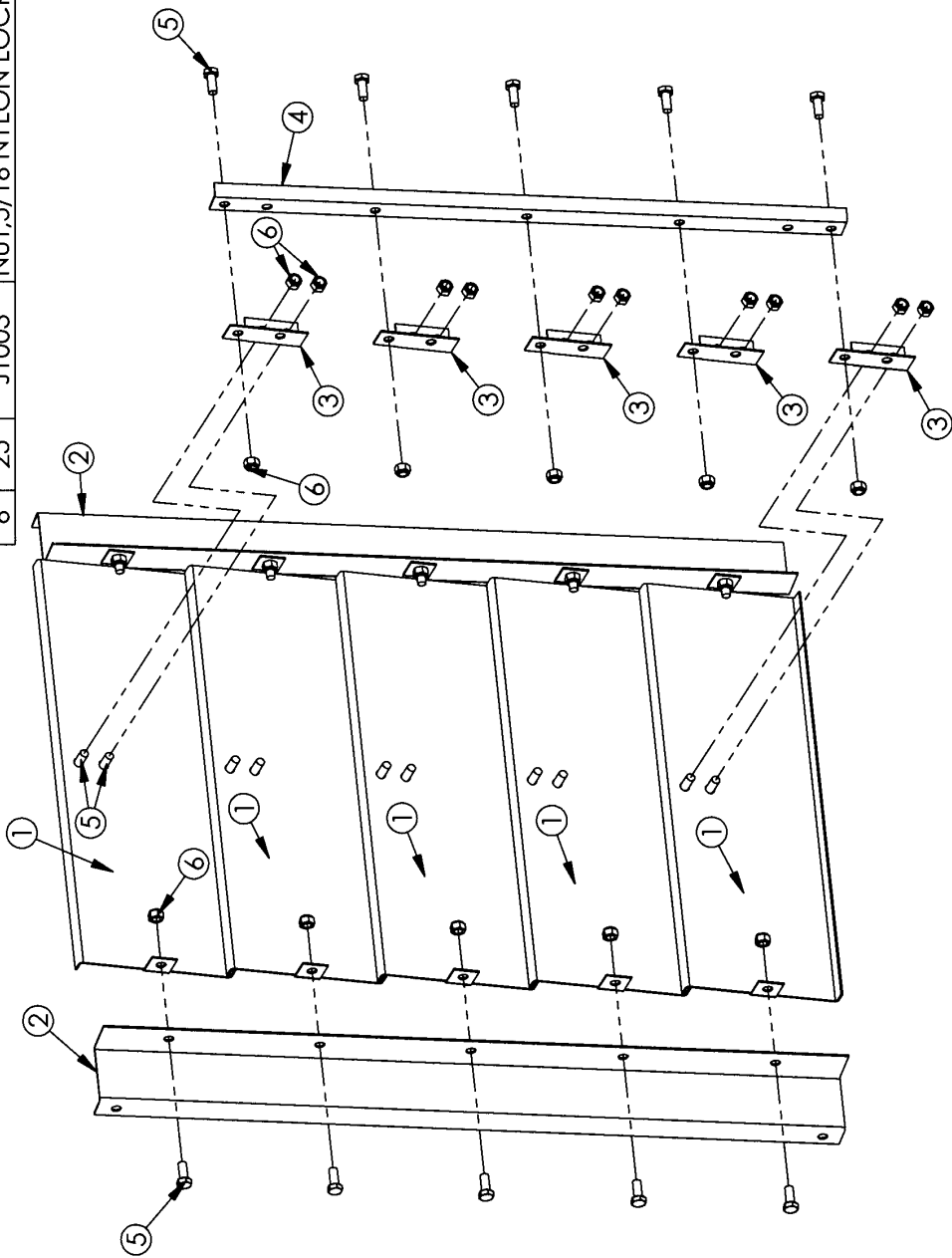
LOUVER DOOR ASSEMBLY

REF	QTY	PART #	DESCRIPTION
1	1	U10208	MAN DOOR PANEL, LOUVER
2	5	U10159	LOUVER, FREE AIR OPEN
3	5	U10161	TAB, LOUVER ADJUSTMENT
4	1	U10162	CONTROL LEVER, LOUVER ADJUSTMENT
5	25	J0520	SCREW, 5/16-18, 3/4"PLT
6	25	J1003	NUT, 5/16 NYLON LOCK
7	2	U10207	SIDE FRAME, LOUVER, DOOR
8	2	U10209	LOUVER SEAL, TOP & BOTTOM, DOOR



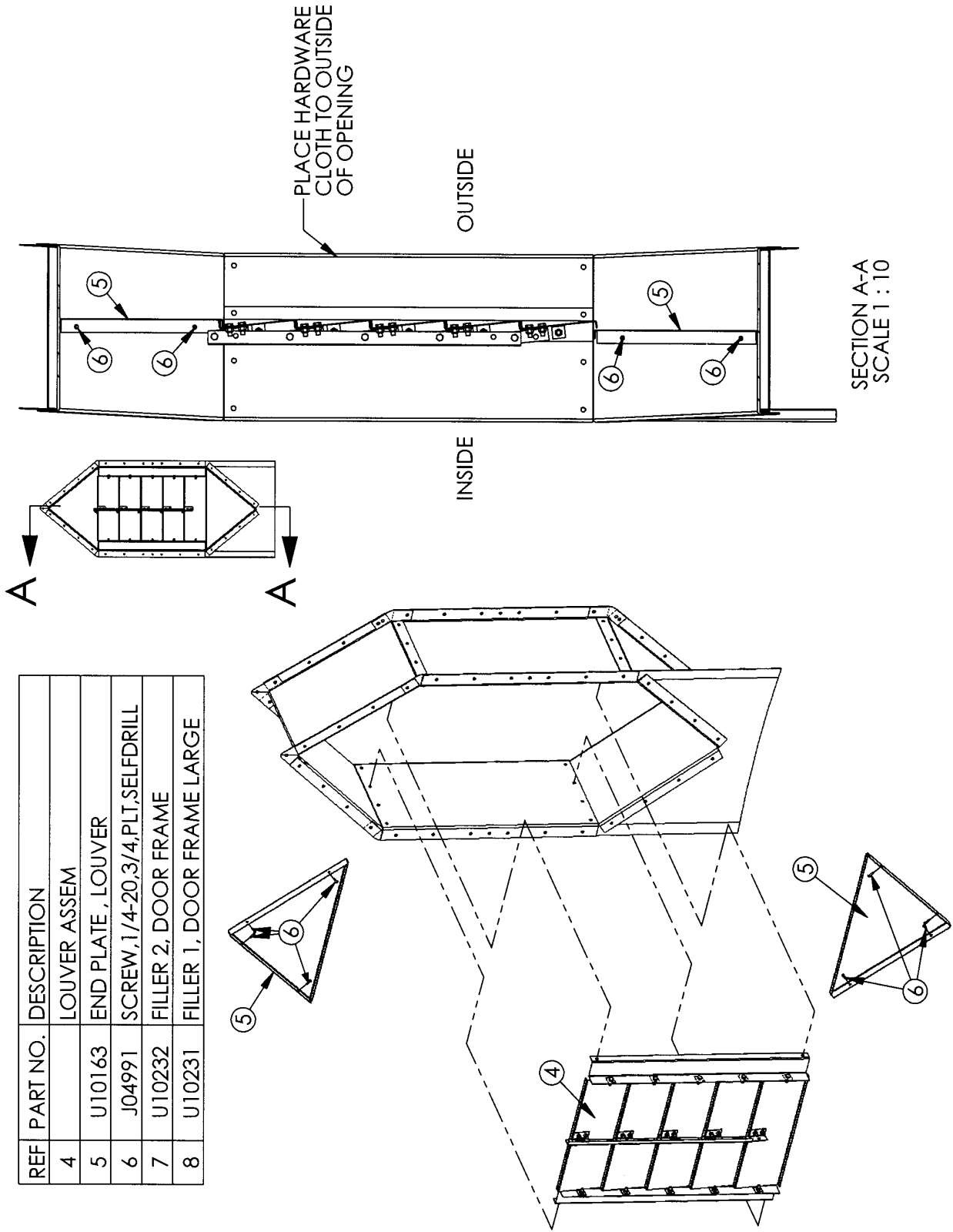
LOUVER ASSEMBLY FOR FREE AIR OPENING

REF QTY.	PART NO.	DESCRIPTION
1	5	U10159 LOUVER, FREE AIR OPEN
2	2	U10160 SIDE FRAME, LOUVER
3	5	U10161 TAB, LOUVER ADJUSTMENT
4	1	U10162 CONTROL LEVER, LOUVER ADJUSTMENT
5	25	J0520 SCREW, 5/16-18, 3/4"PLT
6	25	J1003 NUT, 5/16 NYLON LOCK



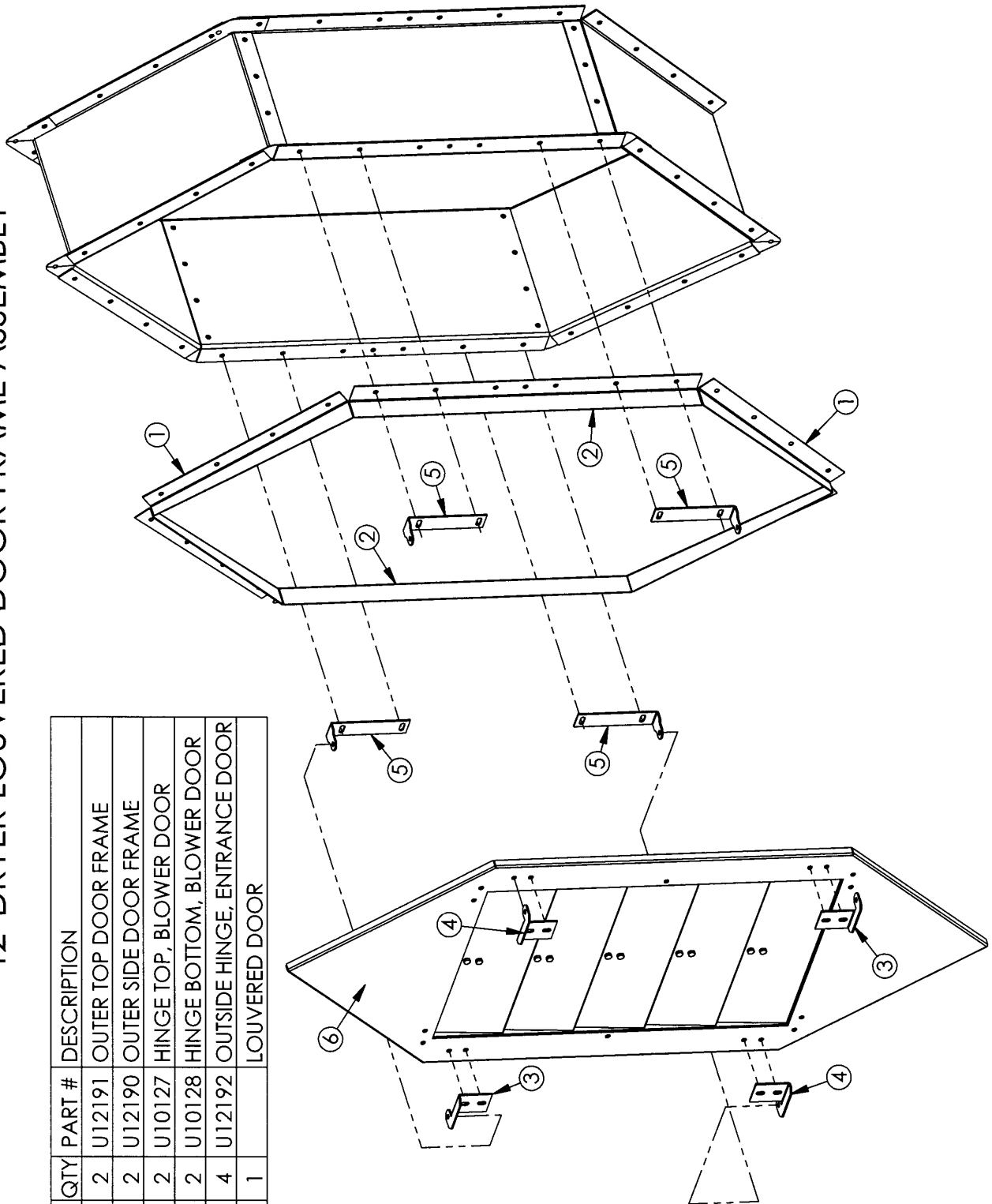
LOUVER PLACEMENT IN FREE AIR OPENING

REF	PART NO.	DESCRIPTION
4		LOUVER ASSEM
5	U10163	END PLATE , LOUVER
6	J04991	SCREW, 1/4-20, 3/4, PLT, SELFDRILL
7	U10232	FILLER 2, DOOR FRAME
8	U10231	FILLER 1, DOOR FRAME LARGE



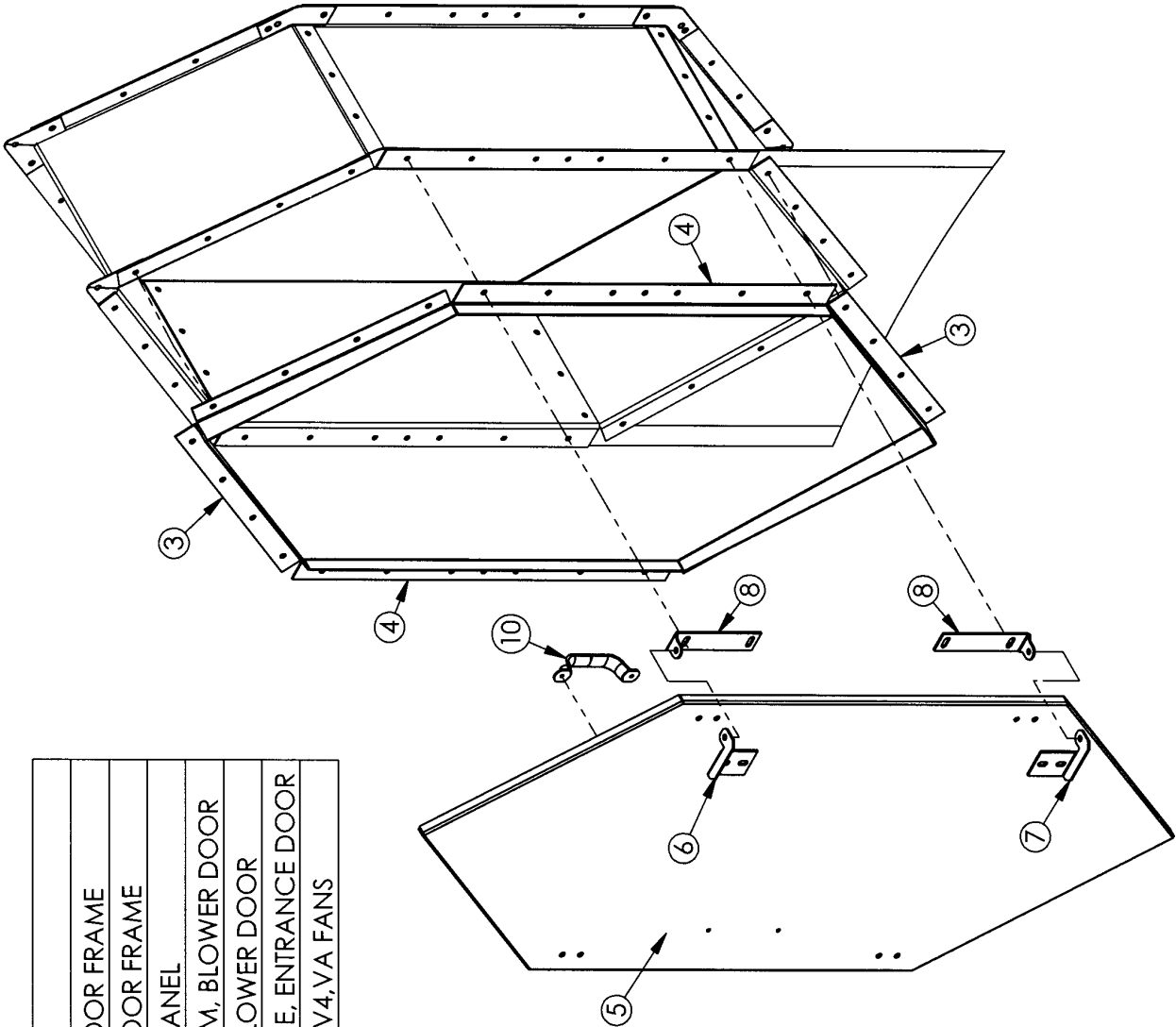
12' DRYER LOUVERED DOOR FRAME ASSEMBLY

REF QTY	PART #	DESCRIPTION
1	2	U12191 OUTER TOP DOOR FRAME
2	2	U12190 OUTER SIDE DOOR FRAME
3	2	U10127 HINGE TOP, BLOWER DOOR
4	2	U10128 HINGE BOTTOM, BLOWER DOOR
5	4	U12192 OUTSIDE HINGE, ENTRANCE DOOR
6	1	LOUVERED DOOR

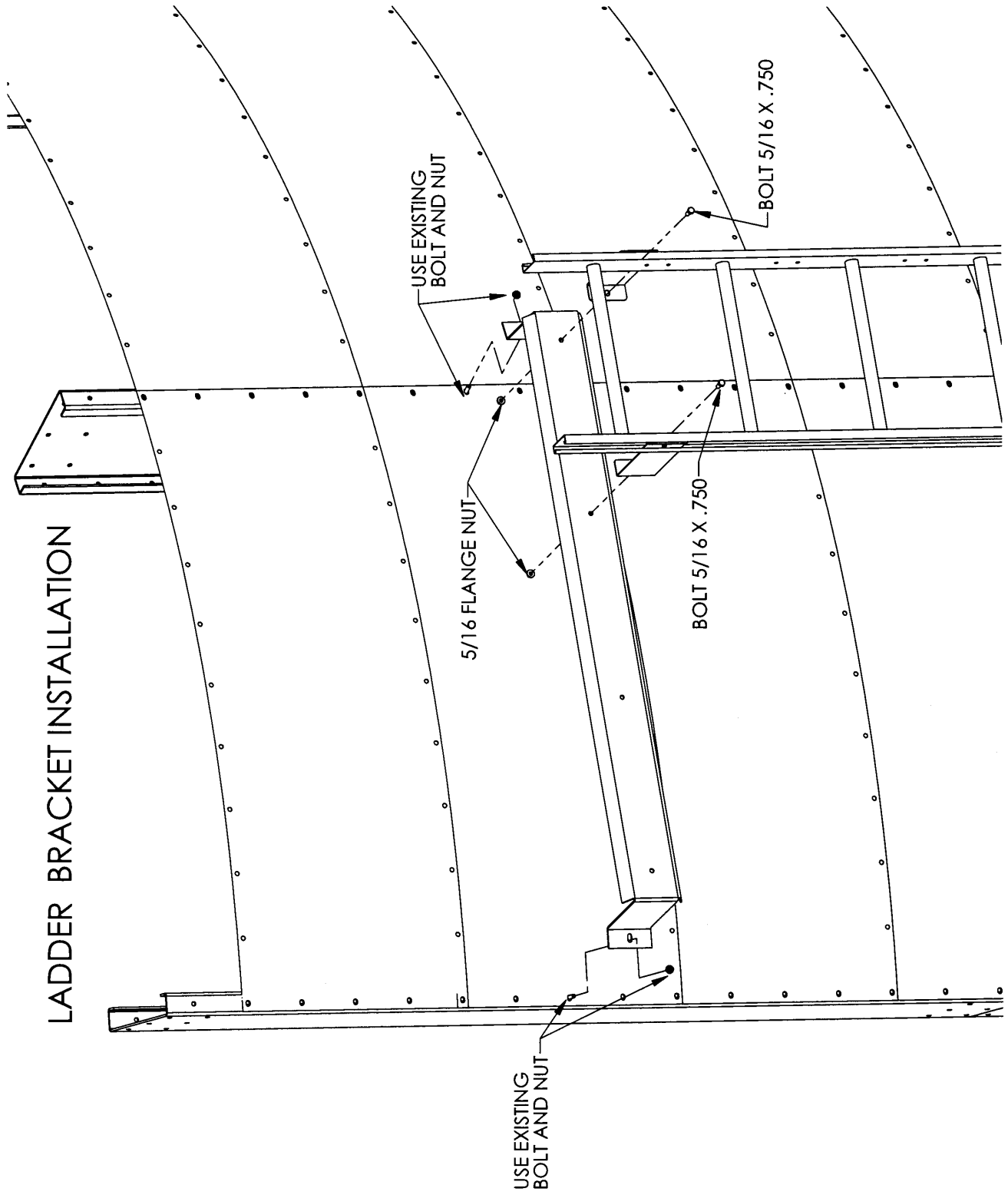


12' DRYER INNER DOOR ASSEMBLY

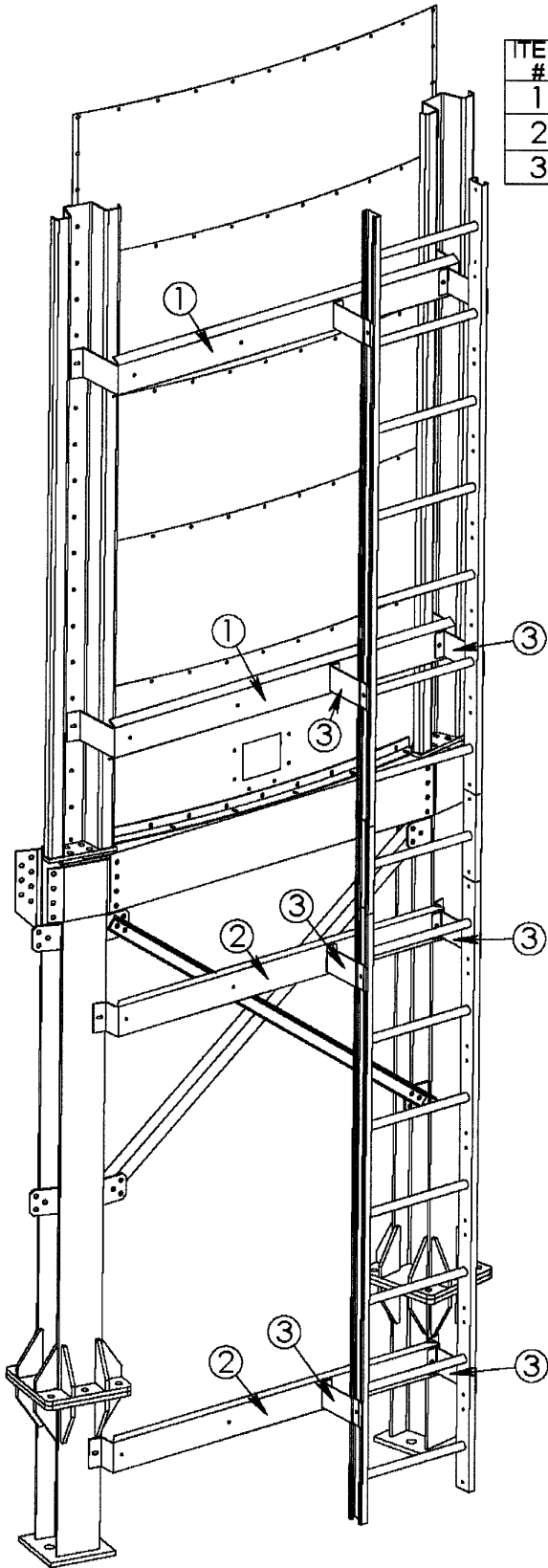
REF	QTY.	PART NO.	DESCRIPTION
3	2	U12193	INNER TOP DOOR FRAME
4	2	U18184	INNER SIDE DOOR FRAME
5	1	U10158	MAN DOOR PANEL
6	1	U10128	HINGE BOTTOM, BLOWER DOOR
7	1	U10127	HINGE TOP, BLOWER DOOR
8	2	U10150	OUTSIDE HINGE, ENTRANCE DOOR
10	1	J3232	HANDLE,PULL,V4,VA FANS



LADDER BRACKET INSTALLATION

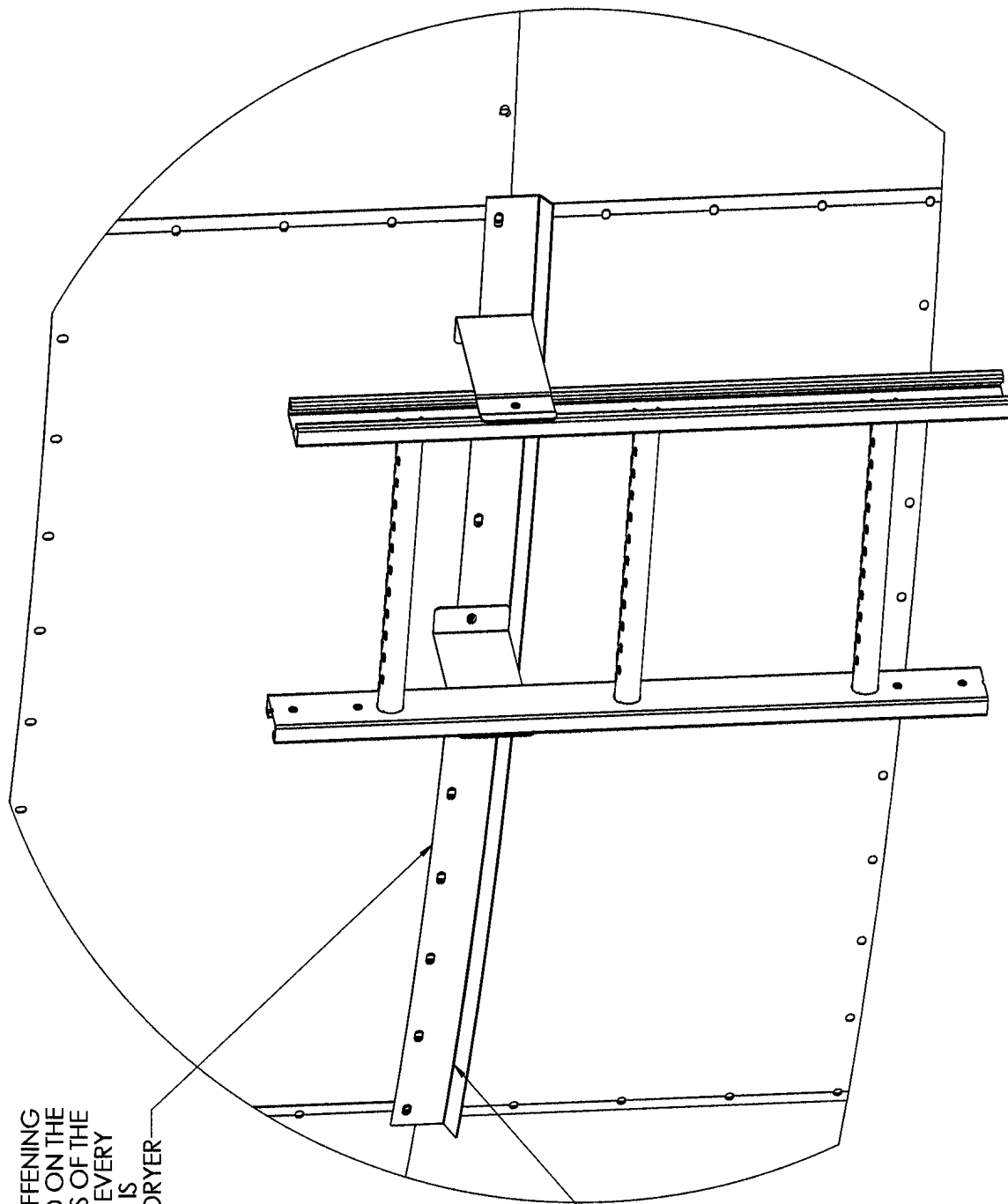


12', 18', 24' LADDER MOUNT TO FIRST PLATFORM



ITEM #	PART #	DESCRIPTION
1	U18815	LADDER STAND OFF BRACKET
2	U18816	LADDER STAND OFF BRACKET, BASE
3	U10166	OUTSIDE LADDER BKT

12', 18', 24' DRYER LADDER MOUNT



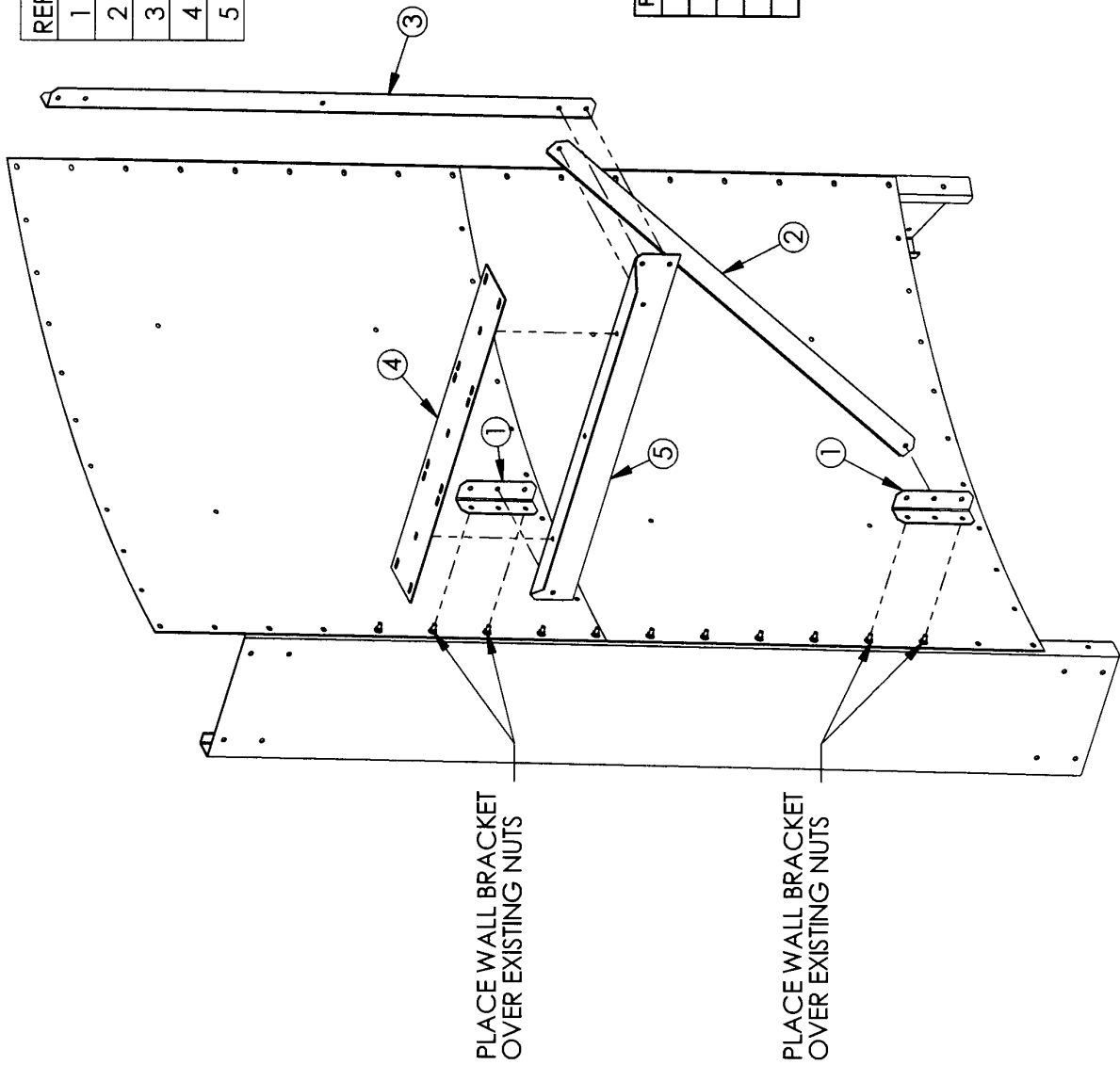
LADDER MOUNT STIFFENING
BRACKET IS PLACED ON THE
HORIZONTAL SEAMS OF THE
OUTER PERF SHEETS EVERY
PLACE THE LADDER IS
ATTACHED TO THE DRYER

12' DRYER (U90296)
18' DRYER (U90238)
24' DRYER (U90236)

12' , 18' , 24' INNER WALKWAY ASSEMBLY STEP 1

18' & 24' DRYERS

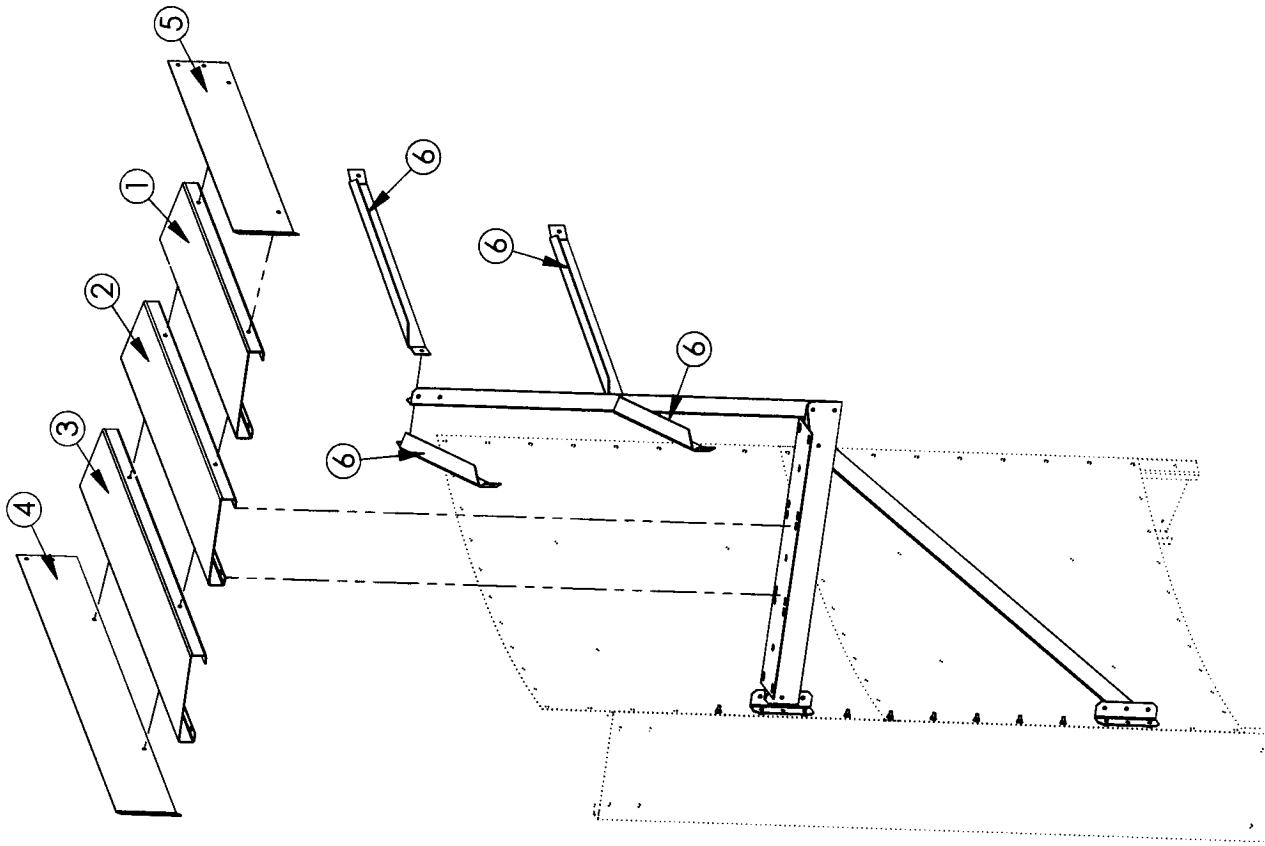
REF	PART NO.	DESCRIPTION
1	U90108	WALL BRACKET 308
2	U90125	KNEE BRACE, INSIDE
3	U90101	POST, BECK
4	U90111	MOUNTING PLATE, BECKING
5	U90118	CROSS ANGLE, INSIDE



12' DRYERS

REF	PART NO.	DESCRIPTION
1	U90108	WALL BRACKET 308
2	U90110	KNEE BRACE, OUTSIDE
3	U90101	POST, BECK
4	U90266	MOUNTING PLATE, BECKING
5	U90109	CROSS ANGLE OUTSIDE

12' , 18' , 24' DRYER INNER WALKWAY ASSEMBLY STEP 2



24' DRYER ASSEMBLY

REF	PART #	DESCRIPTION
1	U90219	SHORT DECK, INSIDE
2	U90220	MIDD DECK, INSIDE
3	U90221	OUTER DECK, INSIDE
4	U90224	INNER KICKBOURD, INSIDE
5	U90223	OUTER KICKBOURD, INSIDE
6	U90222	HANDRAIL, INSIDE

18' DRYER ASSEMBLY

REF	PART NO.	DESCRIPTION
1	U90121	SHORT DECK, INSIDE
2	U90122	MIDD DECK, INSIDE
3	U90123	OUTER DECK, INSIDE
4	U90124	INNER KICKBOURD, INSIDE
5	U90120	OUTER KICKBOURD, INSIDE
6	U90126	HANDRAIL, INSIDE

12' DRYER ASSEMBLY

REF	PART NO.	DESCRIPTION
1	U90271	SHORT DECK, INSIDE
2	U90272	MIDD DECK, INSIDE
3	U90273	OUTER DECK, INSIDE
4	U90274	INNER KICKBOURD, INSIDE
5	U90275	OUTER KICKBOURD, INSIDE
6	U90276	HANDRAIL, INSIDE

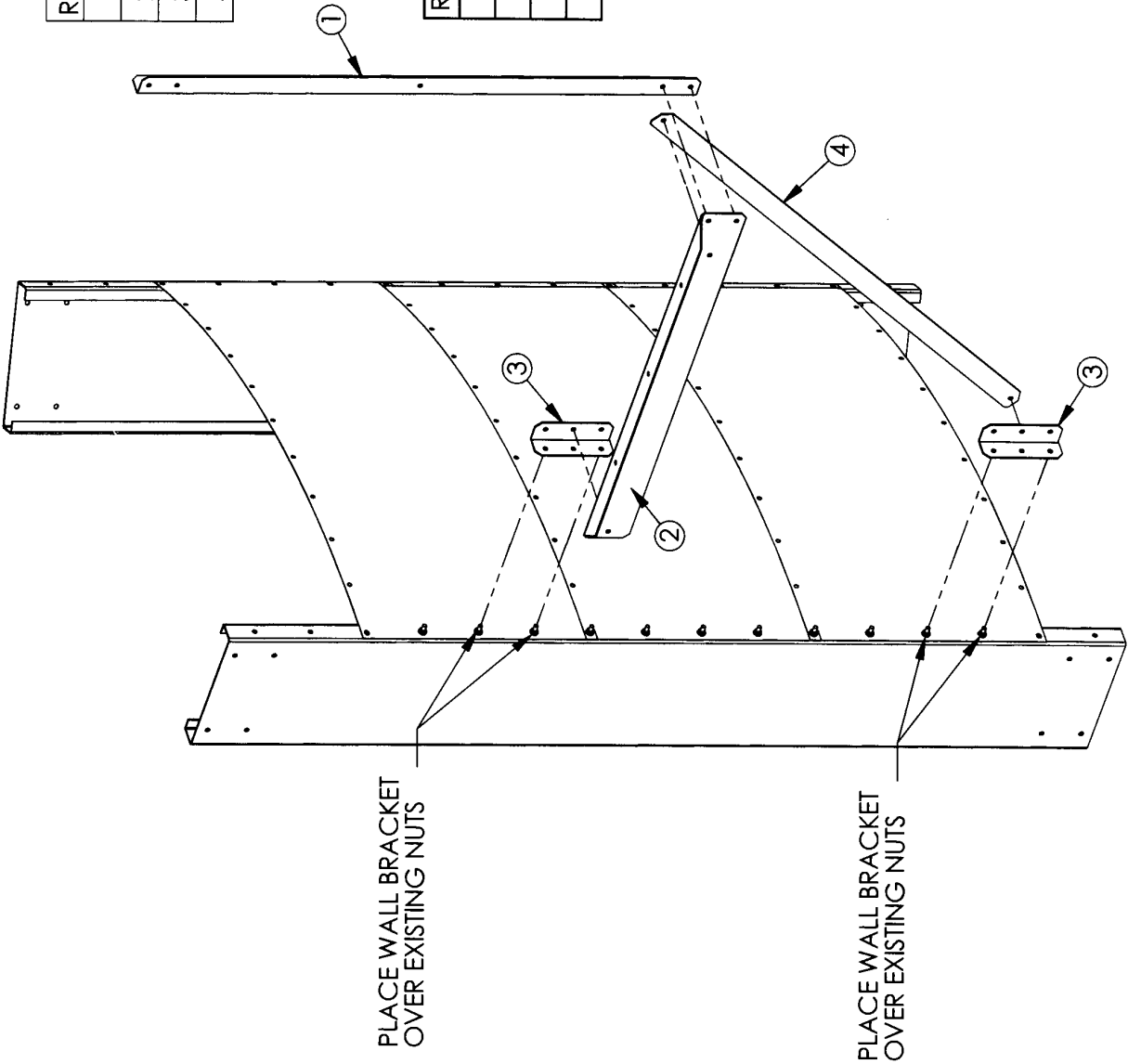
12' , 18' , 24' WALKWAY AND LADDER PLATFORM ASSEMBLY STEP 1

18' & 24' DRYERS

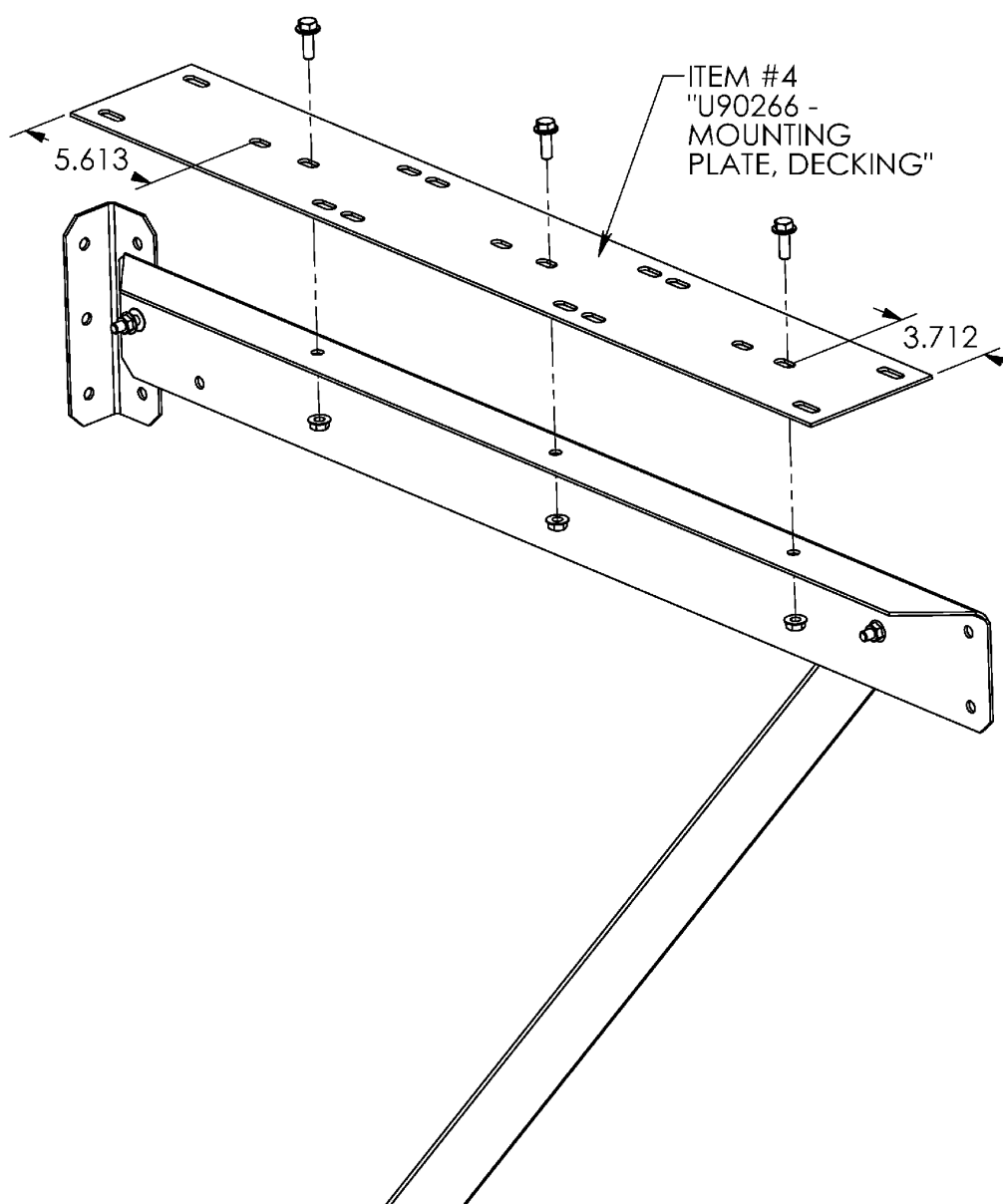
REF	PART NO.	DESCRIPTION
1	U90101	POST, BECK
2	U90109	CROSS ANGLE OUTSIDE
3	U90108	WALL BRACKET 308
4	U90110	KNEE BRACE, OUTSIDE

12' DRYERS

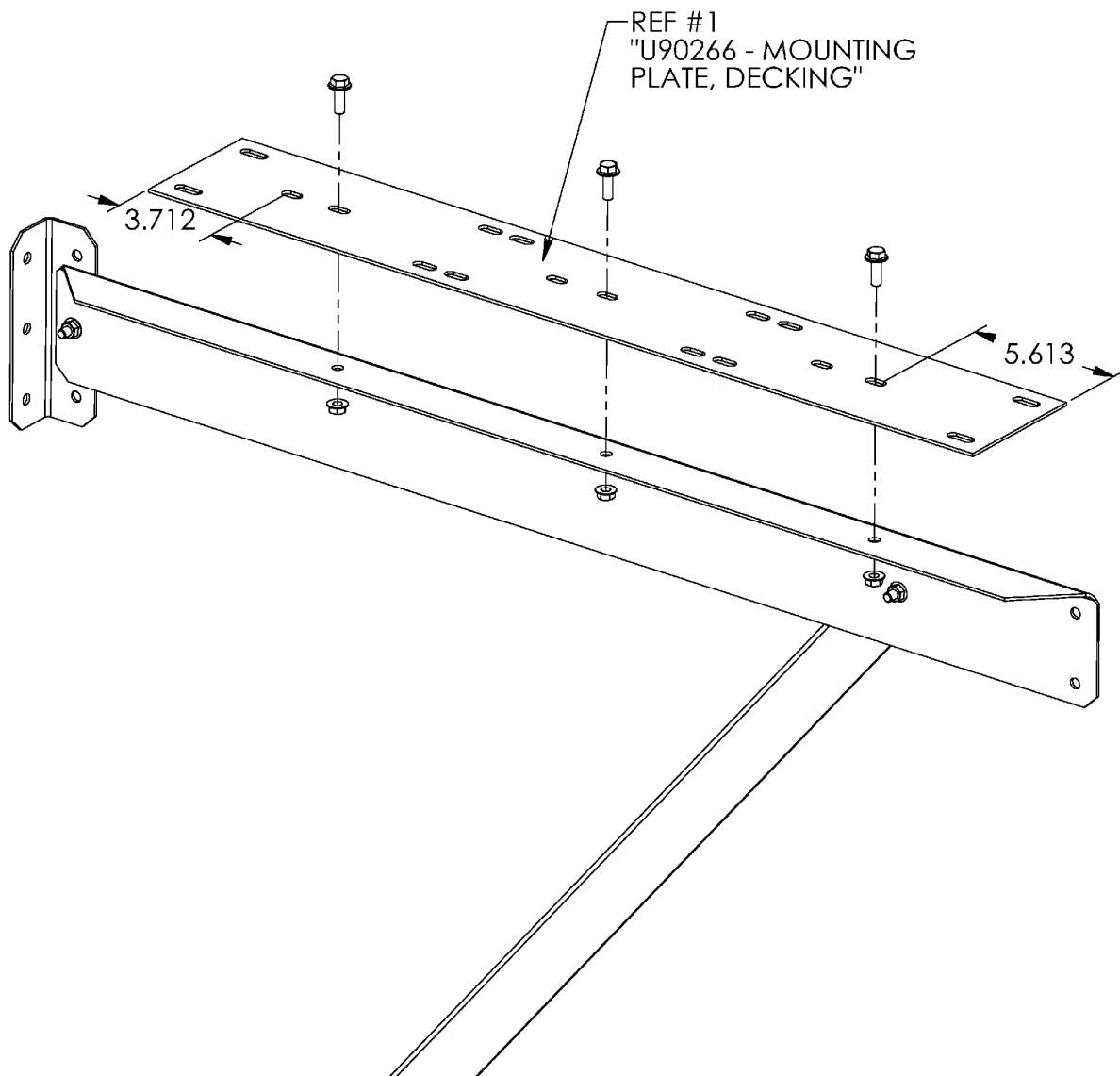
REF	PART NO.	DESCRIPTION
1	U90101	POST, BECK
2	U90265	CROSS ANGLE OUTSIDE
3	U90108	WALL BRACKET 308
4	U90110	KNEE BRACE, OUTSIDE



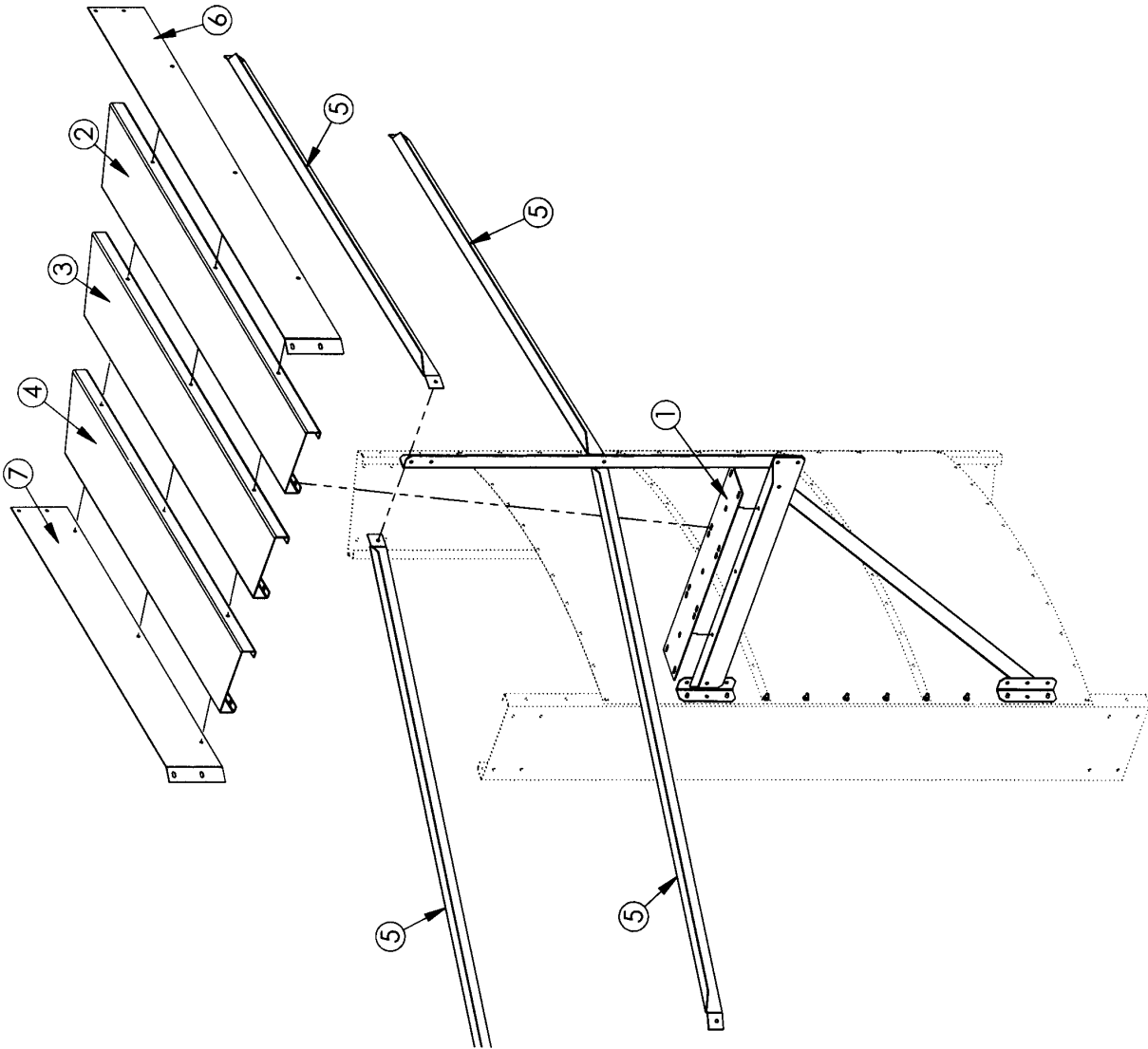
12' DRYER INNER PLATFORM ASSMBLY



12' DRYER OUTSIDE PLATFORM ASSMBLY



12' , 18' , 24' DRYER OUTER WALKWAY ASSEMBLY STEP 2



12' DRYER WALKWAY

REF	PART NO.	DESCRIPTION
1	U90266	MOUNTING PLATE, BECKING
2	U90264	OUTER DECK, OUTSIDE
3	U90263	MIDD DECK, OUTSIDE
4	U90262	INNER DECK, OUTSIDE
5	U90269	HANDRAIL, OUTSIDE
6	U90267	OUTER KICKBOARD, OUTSIDE
7	U90268	INNER KICKBOARD, OUTSIDE

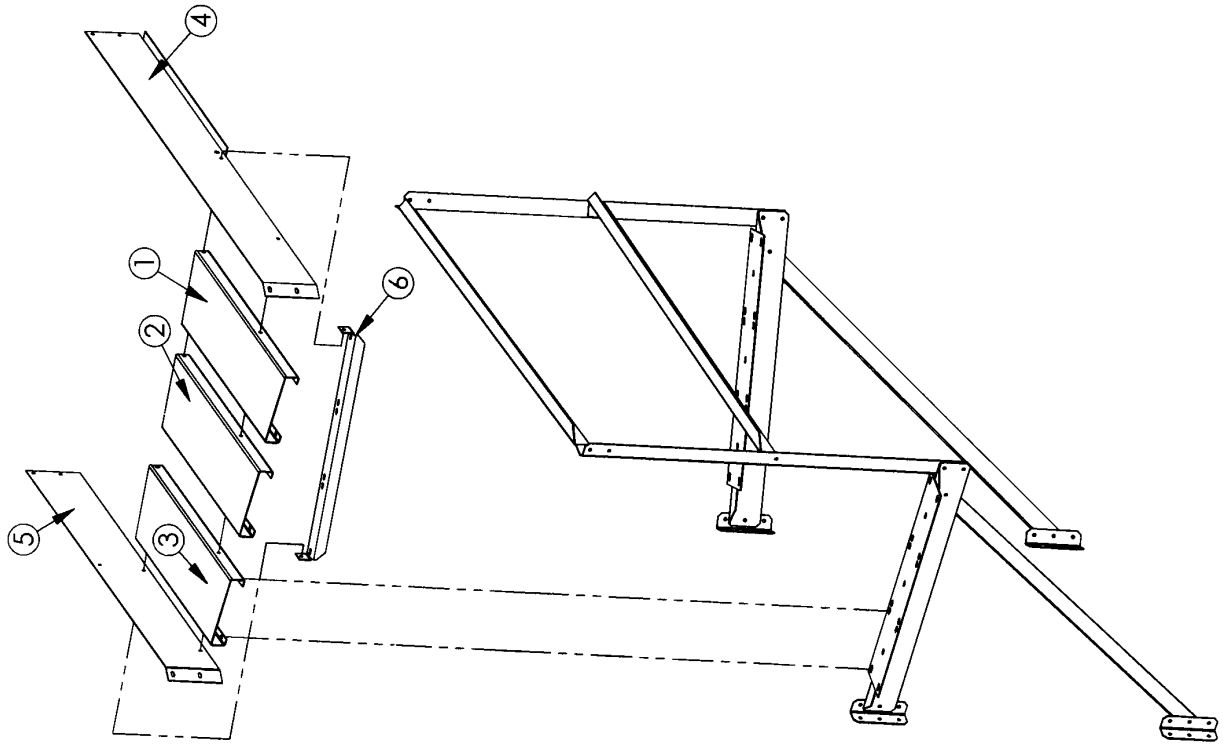
18' DRYER WALKWAY

REF	PART NO.	DESCRIPTION
1	U90111	MOUNTING PLATE, BECKING
2	U90104	OUTER DECK, OUTSIDE
3	U90105	MIDD DECK, OUTSIDE
4	U90106	INNER DECK, OUTSIDE
5	U90102	HANDRAIL, OUTSIDE
6	U90103	OUTER KICKBOARD, OUTSIDE
7	U90107	INNER KICKBOARD, OUTSIDE

24' DRYER WALKWAY

REF	PART #	DESCRIPTION
1	U90111	MOUNTING PLATE, BECKING
2	U90204	OUTER DECK, OUTSIDE
3	U90205	MIDD DECK, OUTSIDE
4	U90206	INNER DECK, OUTSIDE
5	U90201	HANDRAIL, OUTSIDE
6	U90202	OUTER KICKBOARD, OUTSIDE
7	U90203	INNER KICKBOARD, OUTSIDE

12' , 18' , 24' DRYER WALKWAY LADDER SECTION ASSEMBLY STEP 1



12' LADDER SECTION ASSEMBLY

REF	PART #	DESCRIPTION
1	U90283	LONG DECK, FIXED LADDER
2	U90282	MID DECK, FIXED LADDER
3	U90281	INNER DECK, FIXED LADDER
4	U90280	LADDER SECT. OUTER KICKBOARD, OUTSIDE
5	U90268	INNER KICKBOARD, OUTSIDE
6	U90127	DECK SUPPORT ANGLE, OUT-LADDER

18' LADDER SECTION ASSEMBLY

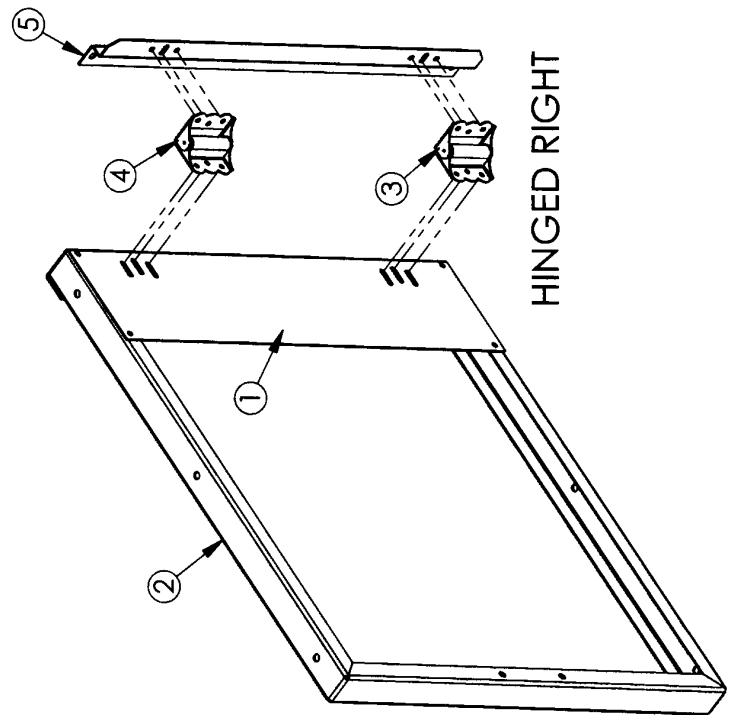
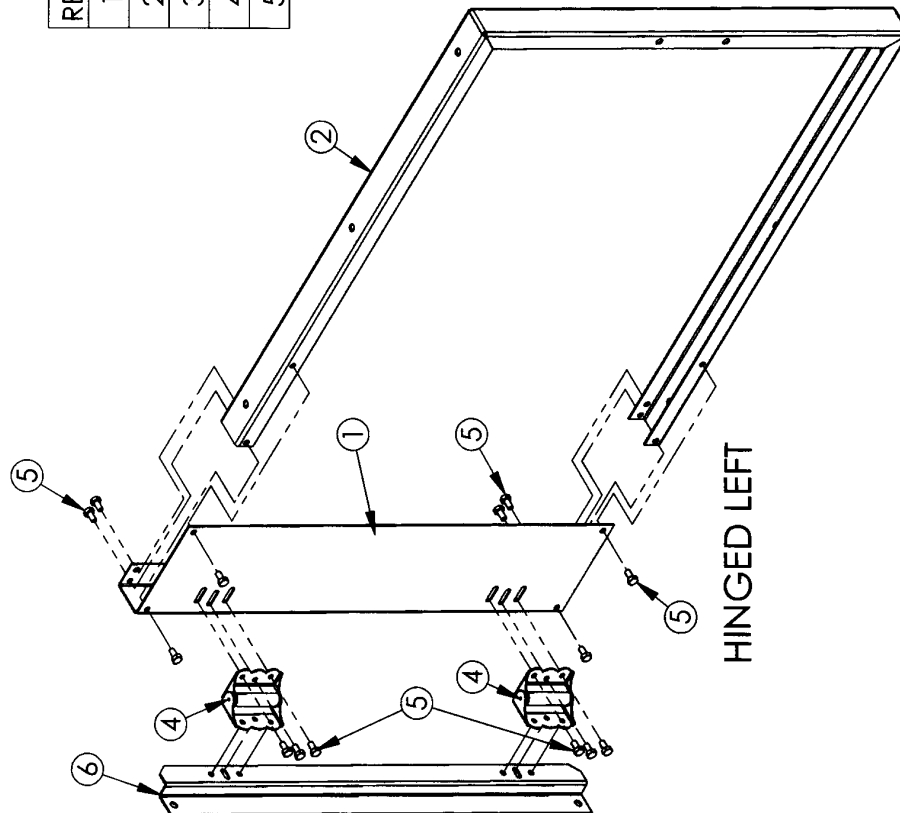
REF	PART NO.	DESCRIPTION
1	U90113	LONG DECK, FIXED LADDER
2	U90114	MID DECK, FIXED LADDER
3	U90115	INNER DECK, FIXED LADDER
4	U90112	OUTER KICKBOARD, LADDER OUTSIDE
5	U90119	INNER KICKBOARD, OUT-LADDER
6	U90127	DECK SUPPORT ANGLE, OUT-LADDER

24' LADDER SECTION ASSEMBLY

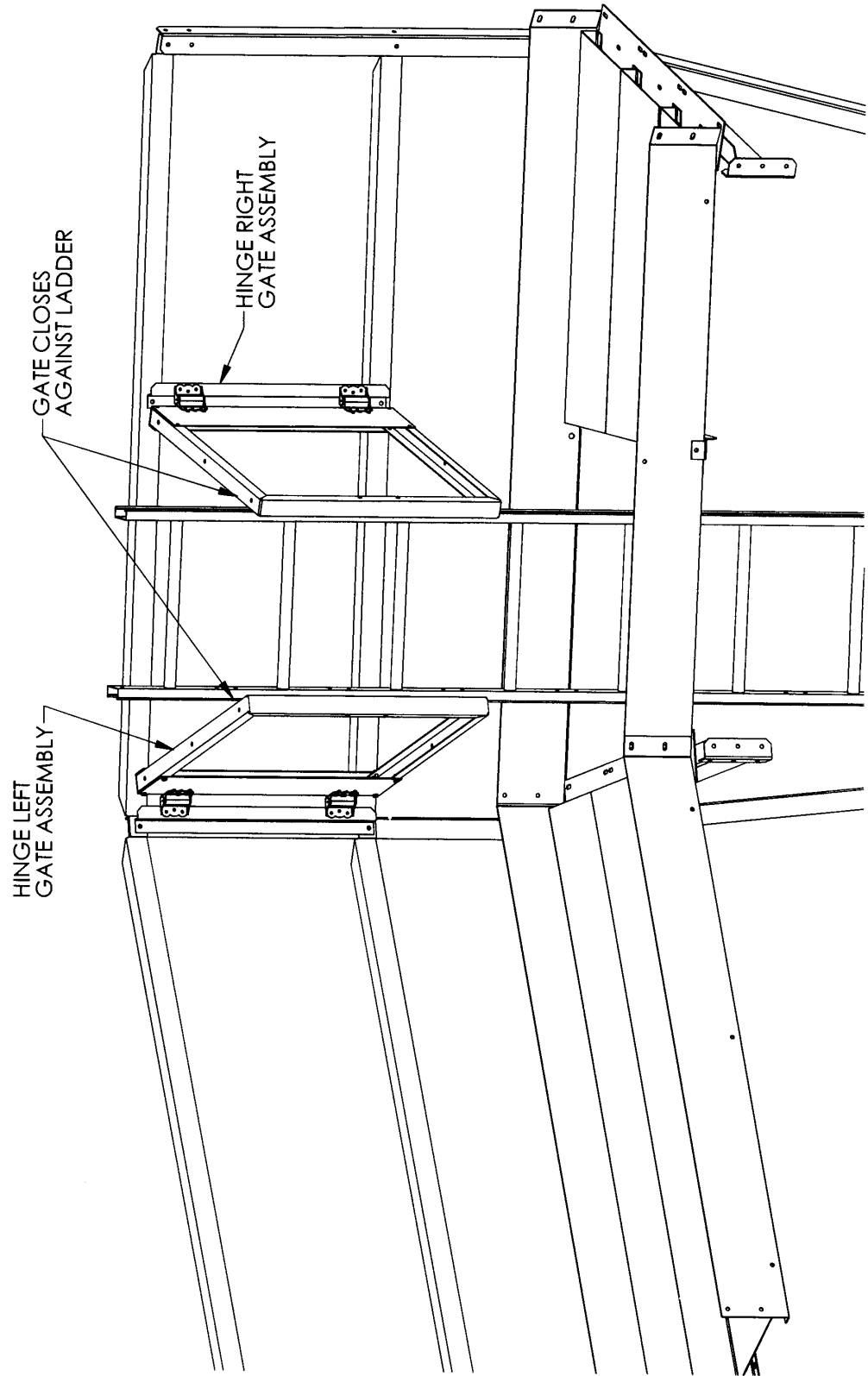
REF	PART #	DESCRIPTION
1	U90208	LONG DECK, FIXED LADDER
2	U90209	MID DECK, FIXED LADDER
3	U90210	INNER DECK, FIXED LADDER
4	U90213	OUTER KICKBOARD, LADDER OUTSIDE
5	U90214	INNER KICKBOARD, OUT-LADDER
6	U90127	DECK SUPPORT ANGLE, OUT-LADDER

TOWER DRYER GATE ASSEMBLY

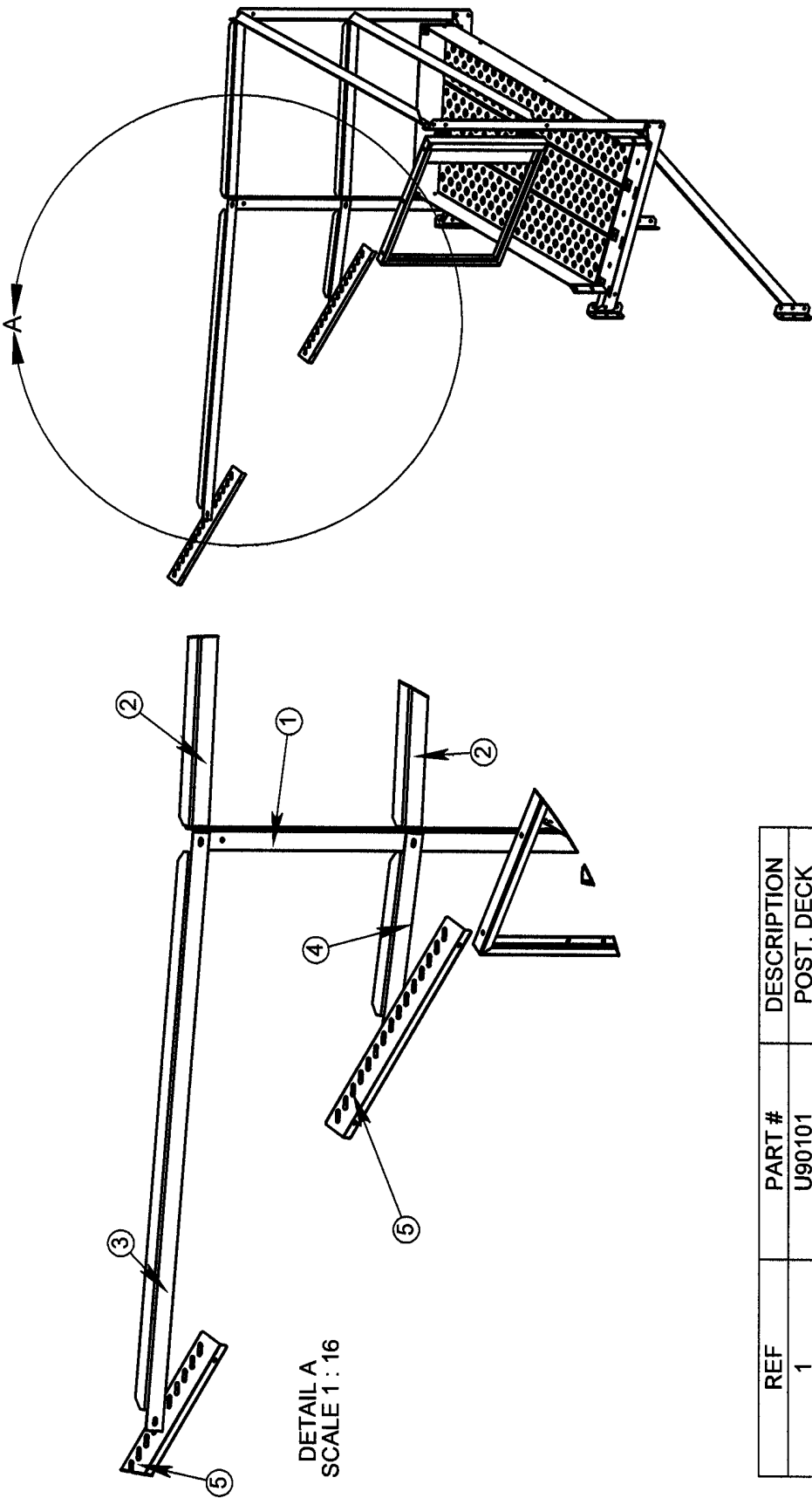
REF	PART #	DESCRIPTION
1	U90285	VERTICAL HINGE END, GATE
2	U90286	GATE FRAME
3	HINGE 1	SPRING HINGE
4	J0504	BOLT 1/4 - 20 X 1/2
5	U90287	HINGE POST



12' , 18' , 24' DRYER WALKWAY LADDER SECTION ASSEMBLY STEP 2
SAFETY GATE PLACEMENT



12' EAVE PLATFORM

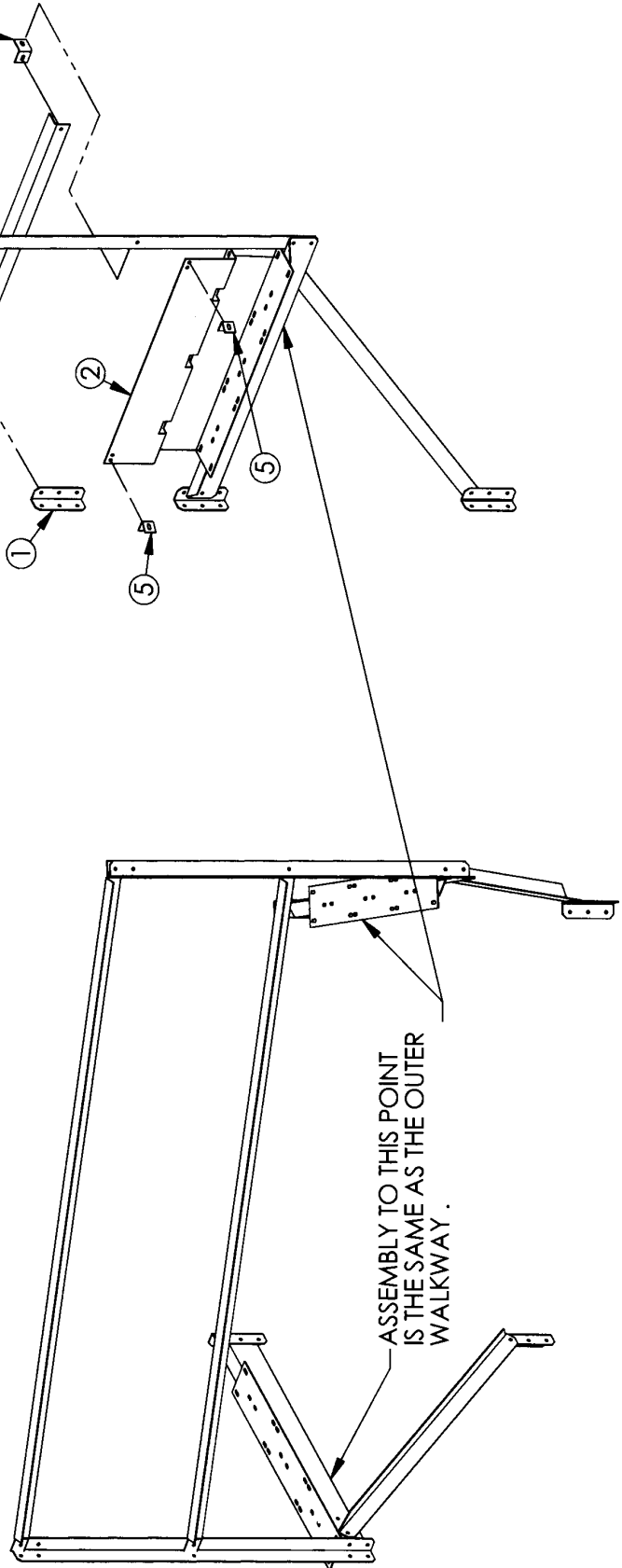


REF	PART #	DESCRIPTION
1	U90101	POST, DECK
2	U90290	HANDRAIL, END
3	U90291	BRACE, ROOF
4	U90292	BRACE, ROOF
5	U90290	BRACKET ROOF

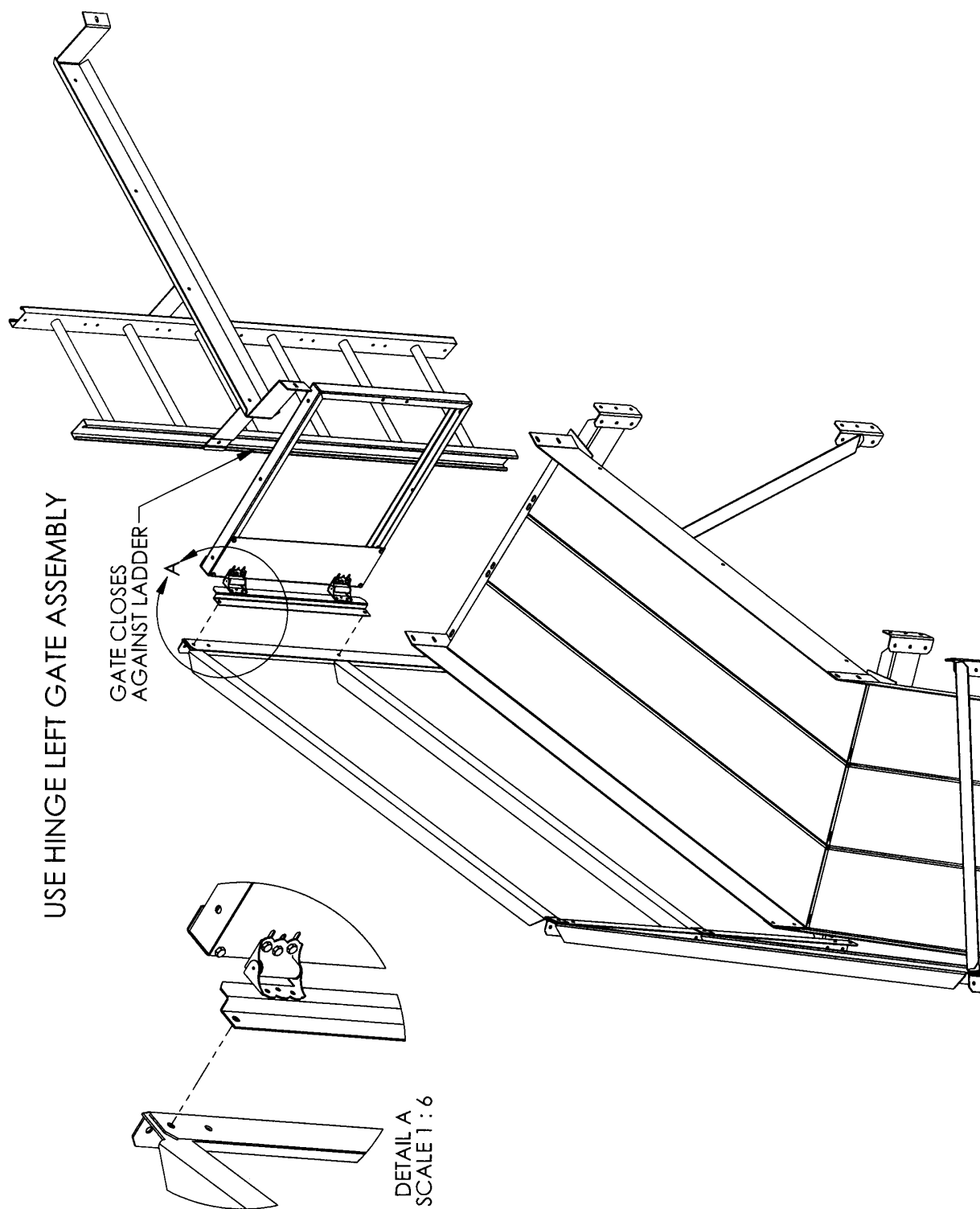
12' LADDER PLATFORM ASSEMBLY STEP 1

NOTE: DECKING IS INSTALLED THE SAME AS OUTER WALKWAY

REF	PART #	DESCRIPTION
1	U90108	WALL BRACKET 308
2	U90261	END ANGLE KICK, PLATFORM
3	U90144	SIDE ANGLE, HANDRAIL
4	U90277	MED HANDRAIL, PLATFORM
5	U90270	BRACKET ANGLE-KICK, PLATFORM

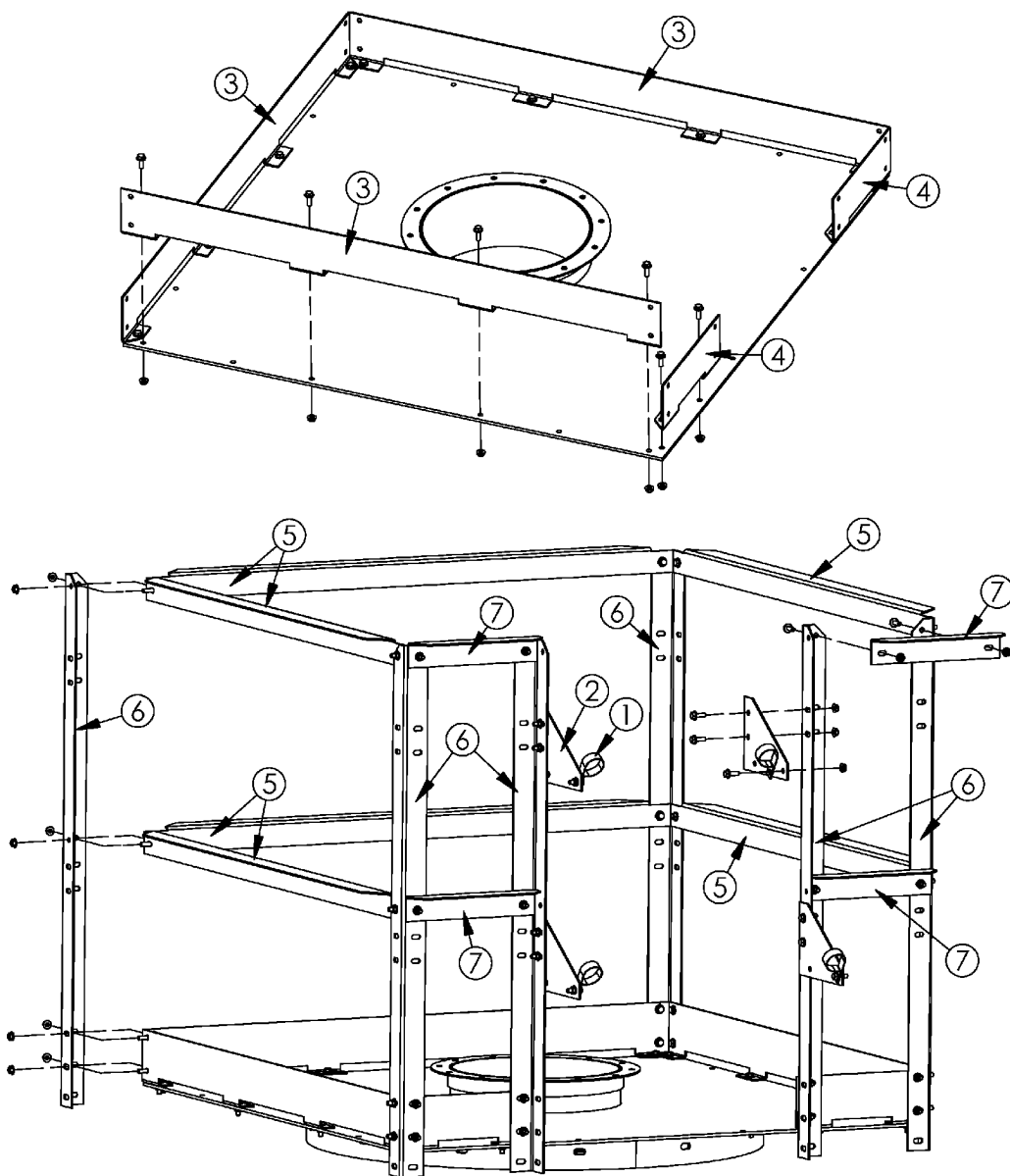


SAFETY GATE INSTALLATION ON LADDER PLATFORMS AND WALK DECKS



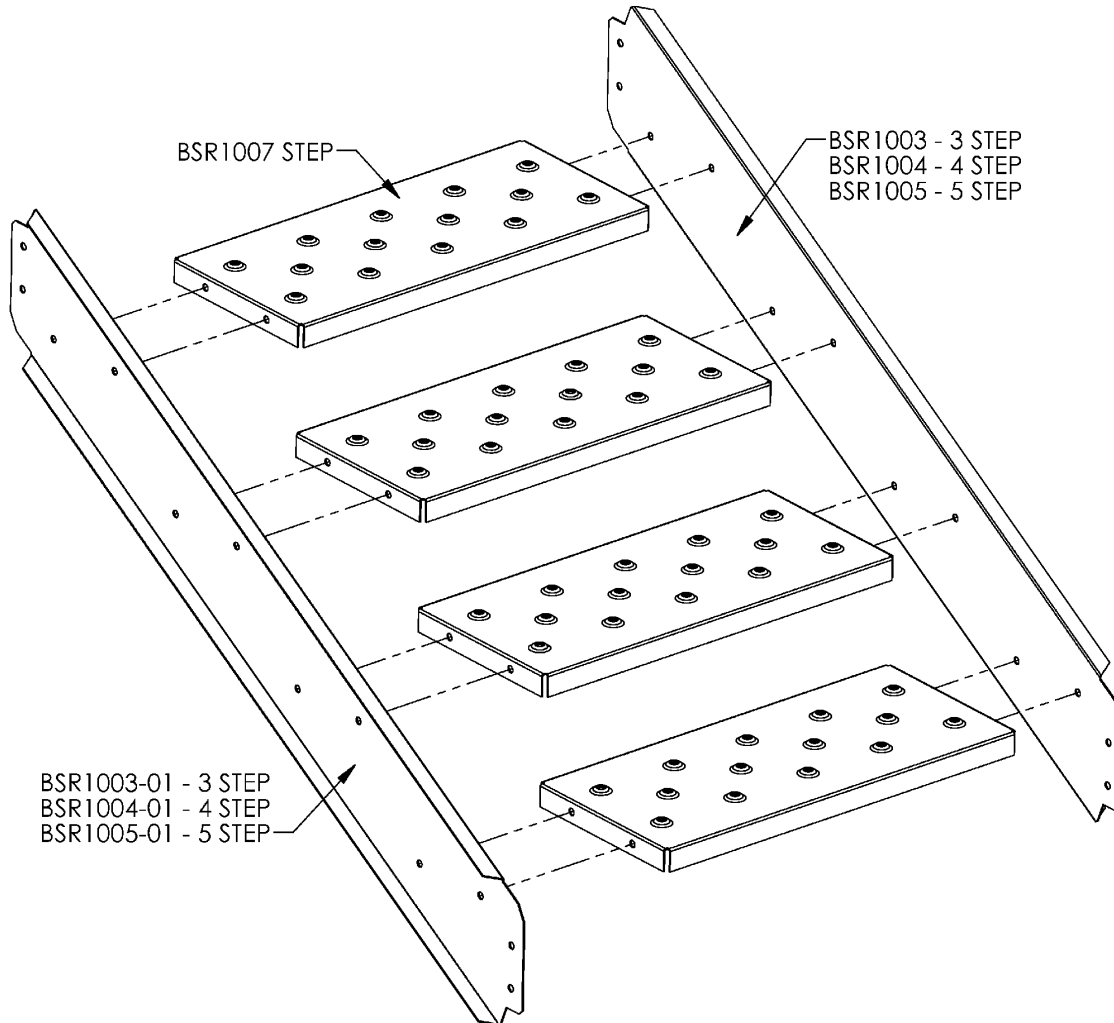
TOWER DRYER PEAK RAILING ASSEMBLY

ITEM #	PART #	QTY.	DESCRIPTION
1	J6580	4	CLAMP, PIPE, 1.5, 8863T42
2	BSR1019	4	BRKT, GUARDRAIL, ROOF
3	U10223	3	TOE KICK, LONG, LID
4	U10224	2	TOE KICK, SHORT, LID
5	U10227	6	HANDRAIL, LONG
6	U10226	6	POST, PEAK RAILING
7	U10228	4	HANDRAIL, SHORT
8	J0537	68	SCREW, 5/16-18, 1.00, PLT, G5, HHWZ
9	J1110	68	NUT, WHIZ, 5/16-18
10	U10221	1	LID, SQR, WELD, 14" CENTER

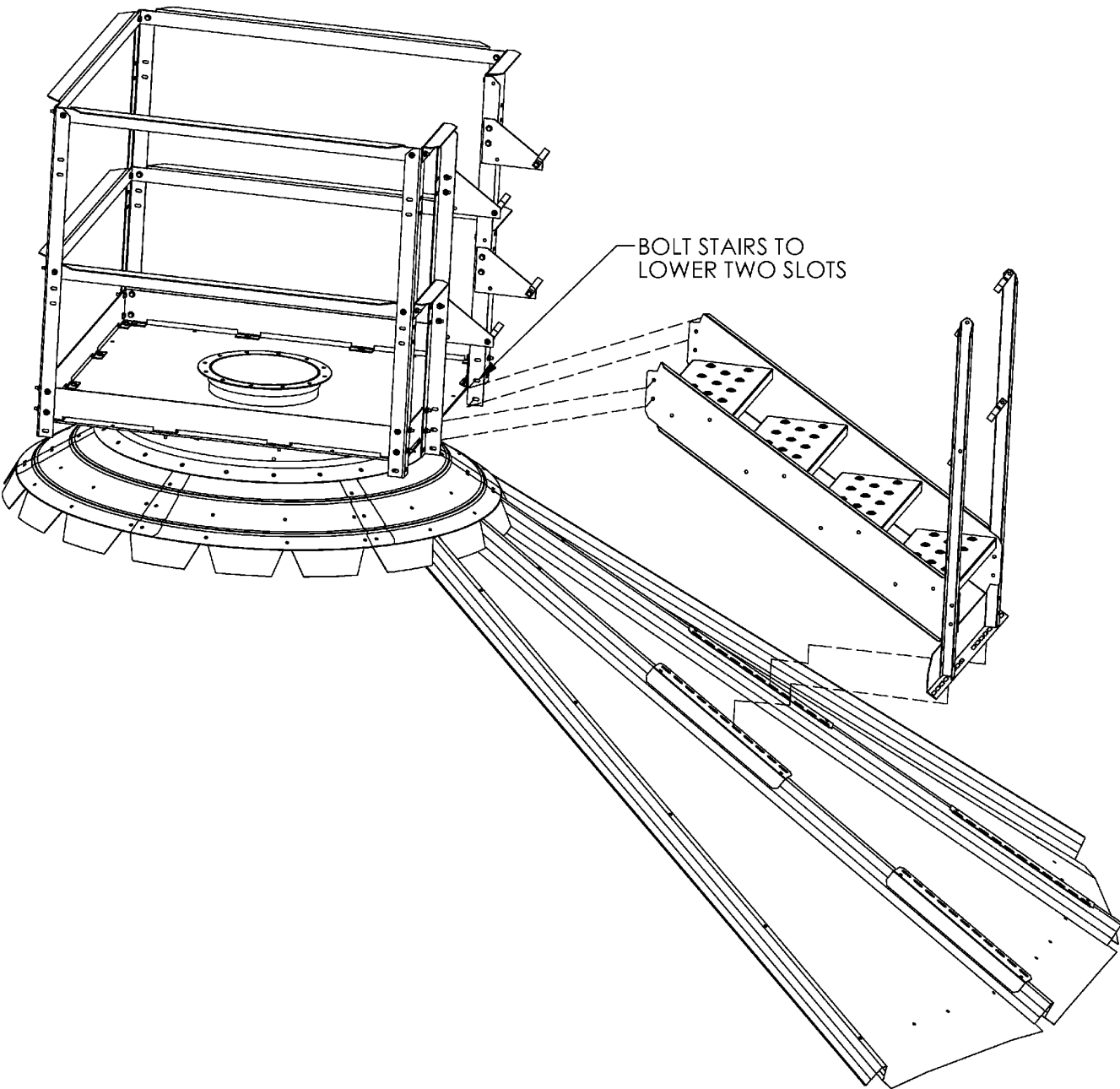


STAIR ASSEMBLY FOR TOWER DRYERS

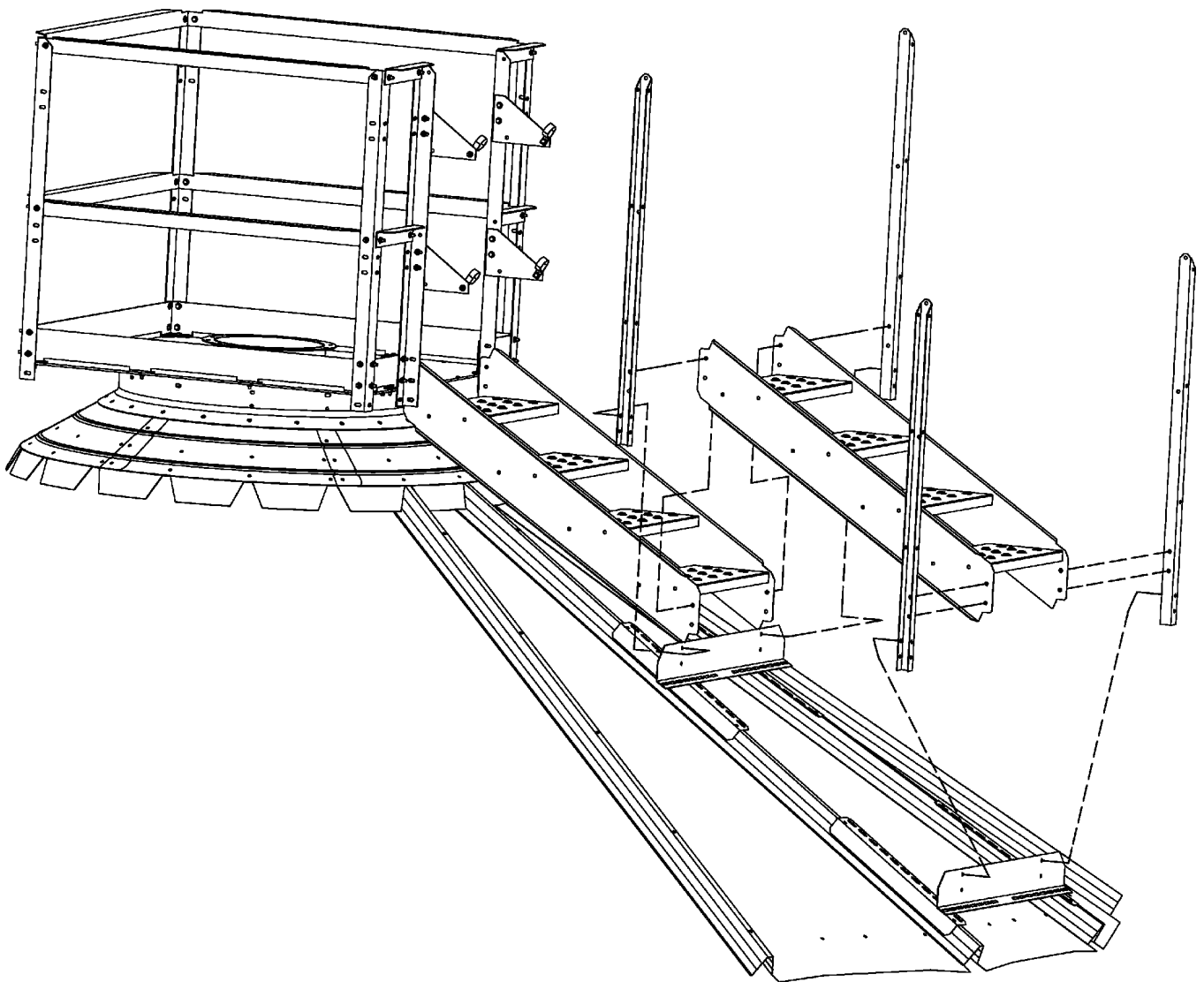
USE 3/8" BOLTS AND NUTS



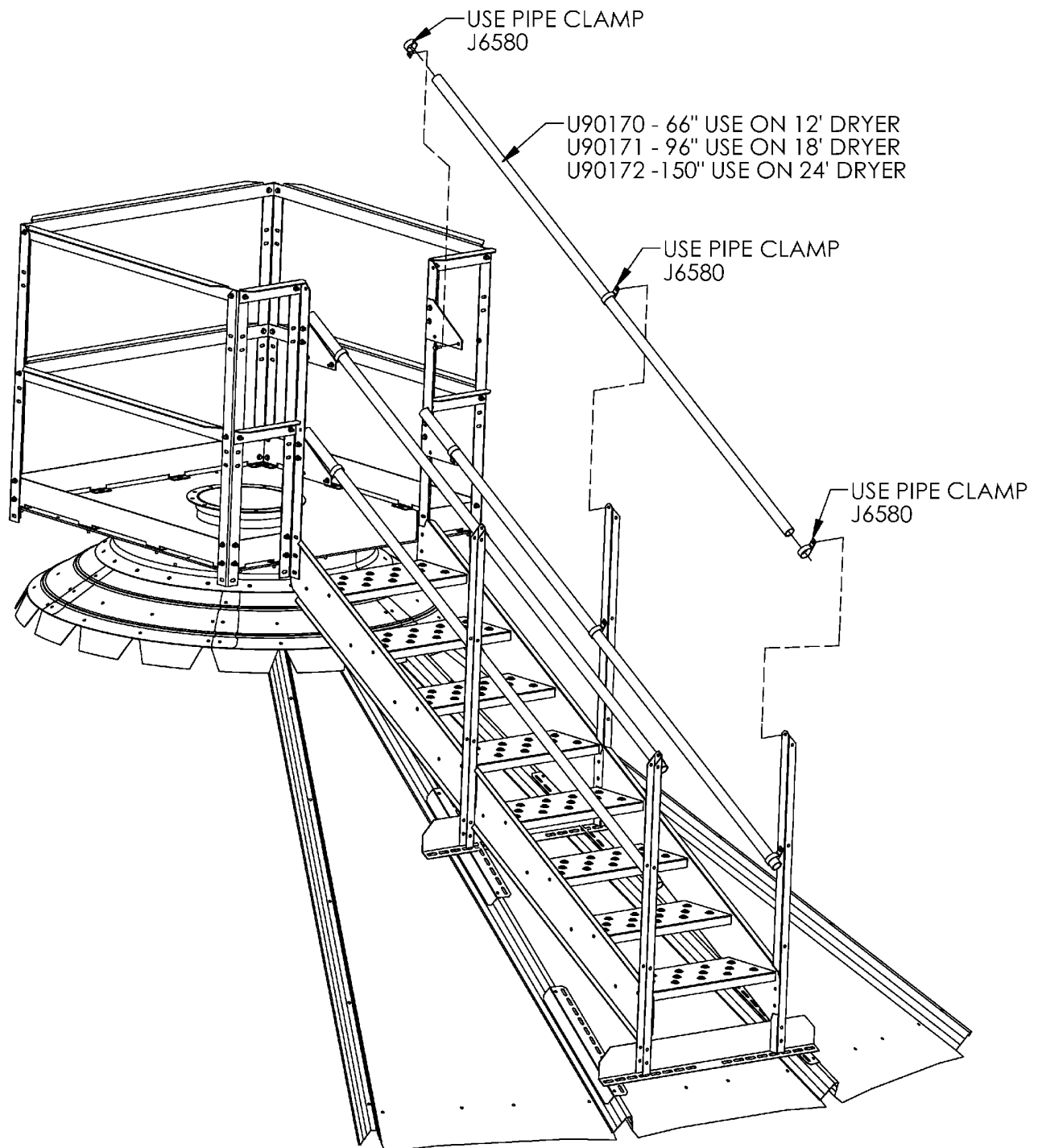
MOUNTING STAIRS TO PEAK RAILING AND DRYER ROOF



STAIR ASSEMBLY FOR TOWER DRYERS

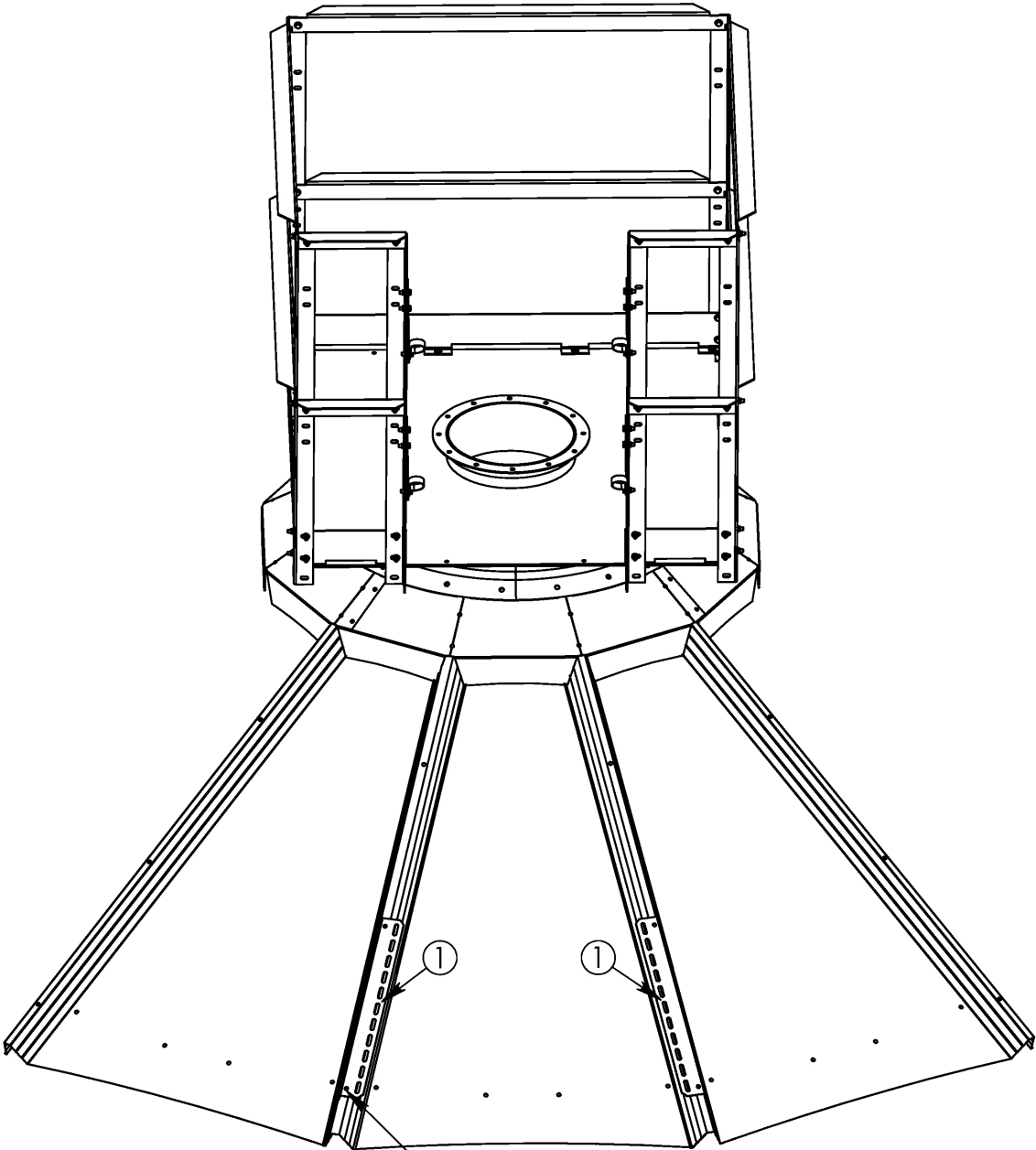


HANDRAIL ASSEMBLY ON TOWER DRYER ROOF STAIRS



12' DRYER ROOF STAIRS BRACKET PLACEMENT

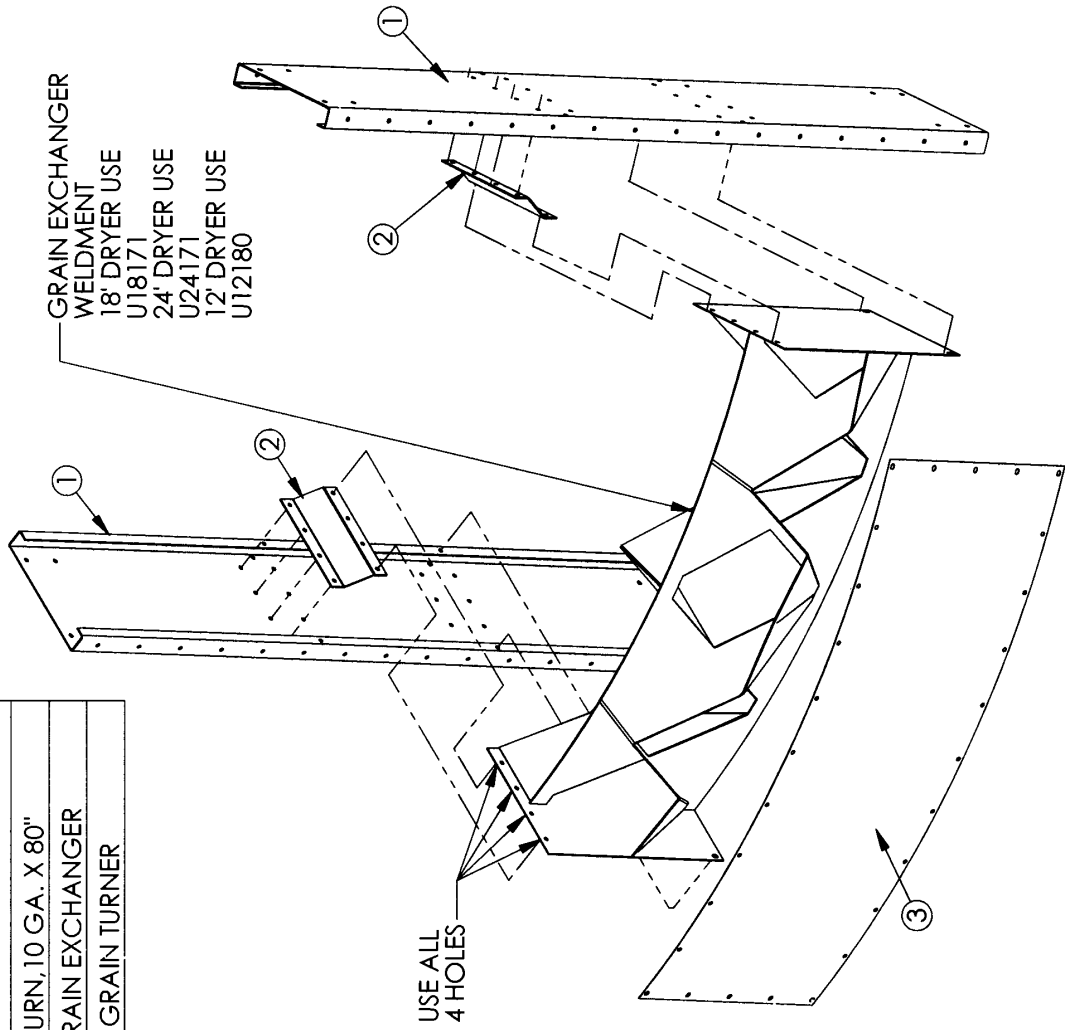
ITEM #	PART #	QTY.	DESCRIPTION
1	BSR1000	2	BRKT, SPRT, RISER, STAIR, ROOF (20.5625)



START AT FIRST HOLE IN RIB

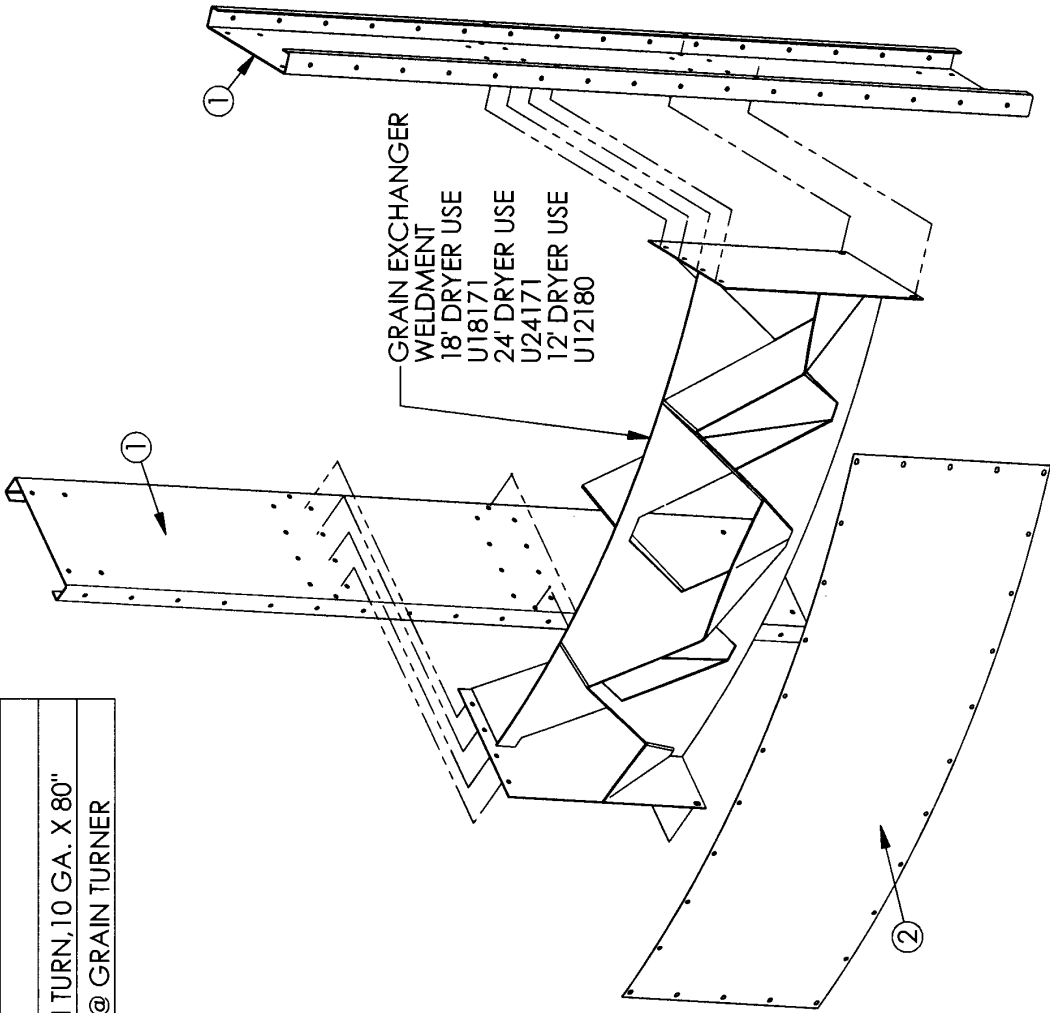
12', 18' AND 24' DRYER GRAIN EXCHANGER ASSEMBLY

REF	PART #	DESCRIPTION
1	U10206	COLUMN, GRAIN TURN, 10 GA. X 80"
2	U18176	UPPER BRACKET GRAIN EXCHANGER
3	U10164	BACKING PANEL@ GRAIN TURNER

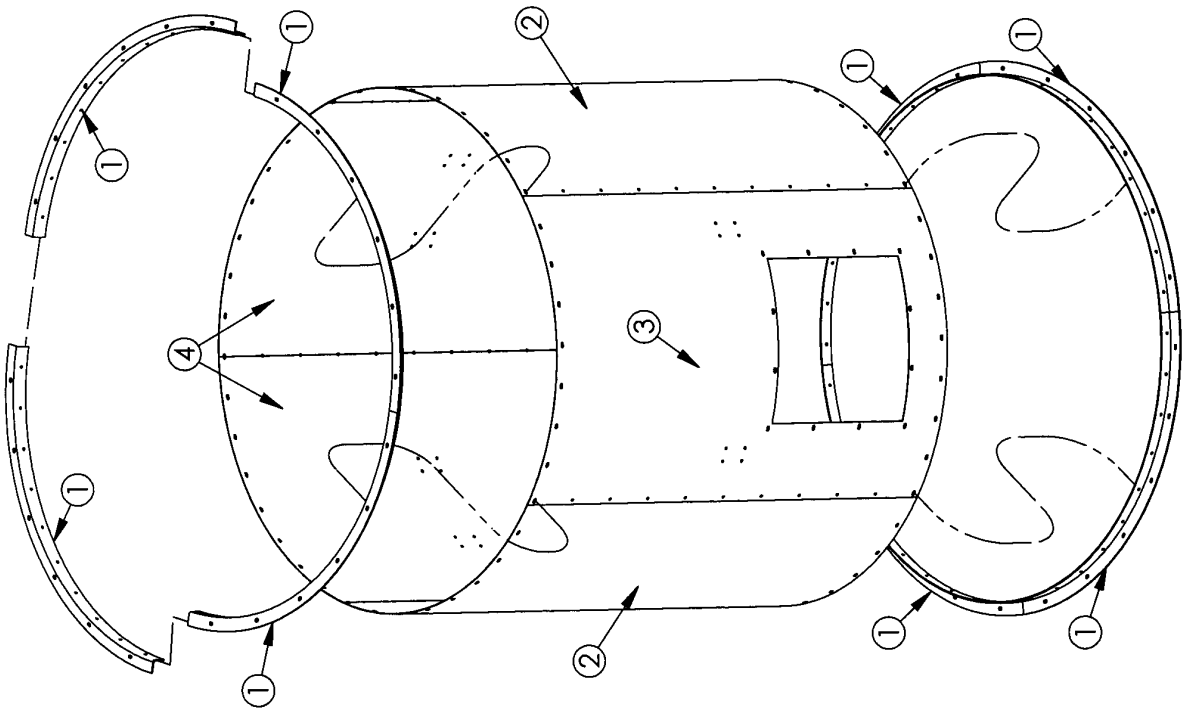


12', 18' AND 24' DRYER GRAIN EXCHANGER ASSEMBLY

REF	PART #	DESCRIPTION
1	U10206	COLUMN, GRAIN TURN, 10 GA. X 80"
2	U10164	BACKING PANEL@ GRAIN TURNER



542 BURNER HOUSING ASSEMBLY

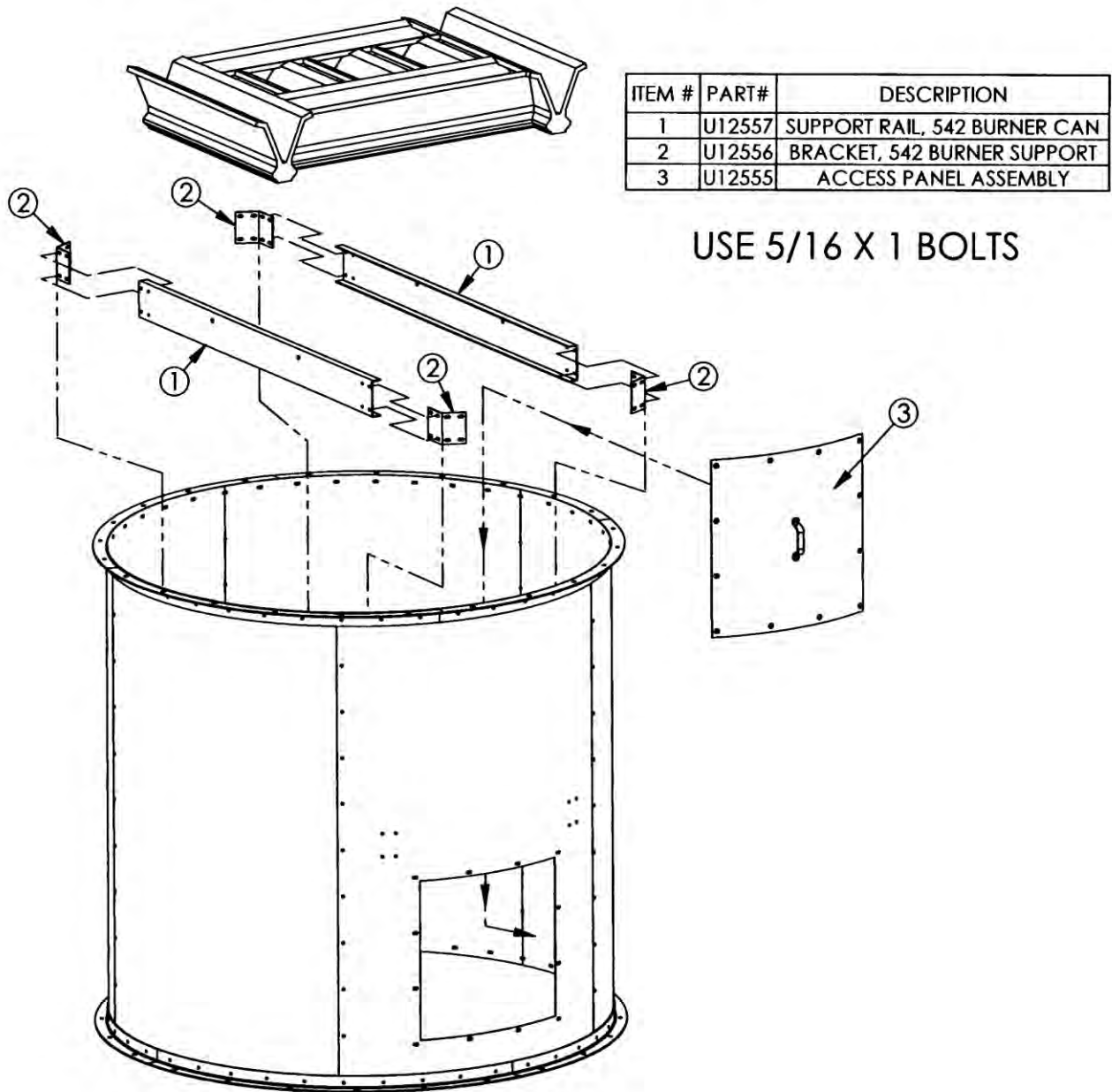


ITEM #	PART #	DESCRIPTION
1	U12551	542 BURNER FLANGE RING
2	U12552	542 SIDE PANEL A, BURNER CAN
3	U12554	542 PANEL ,ACCESS, BURNER CAN
4	U12553	542 SIDE PANEL B, BURNER CAN

USE 5/16 X 1 BOLTS

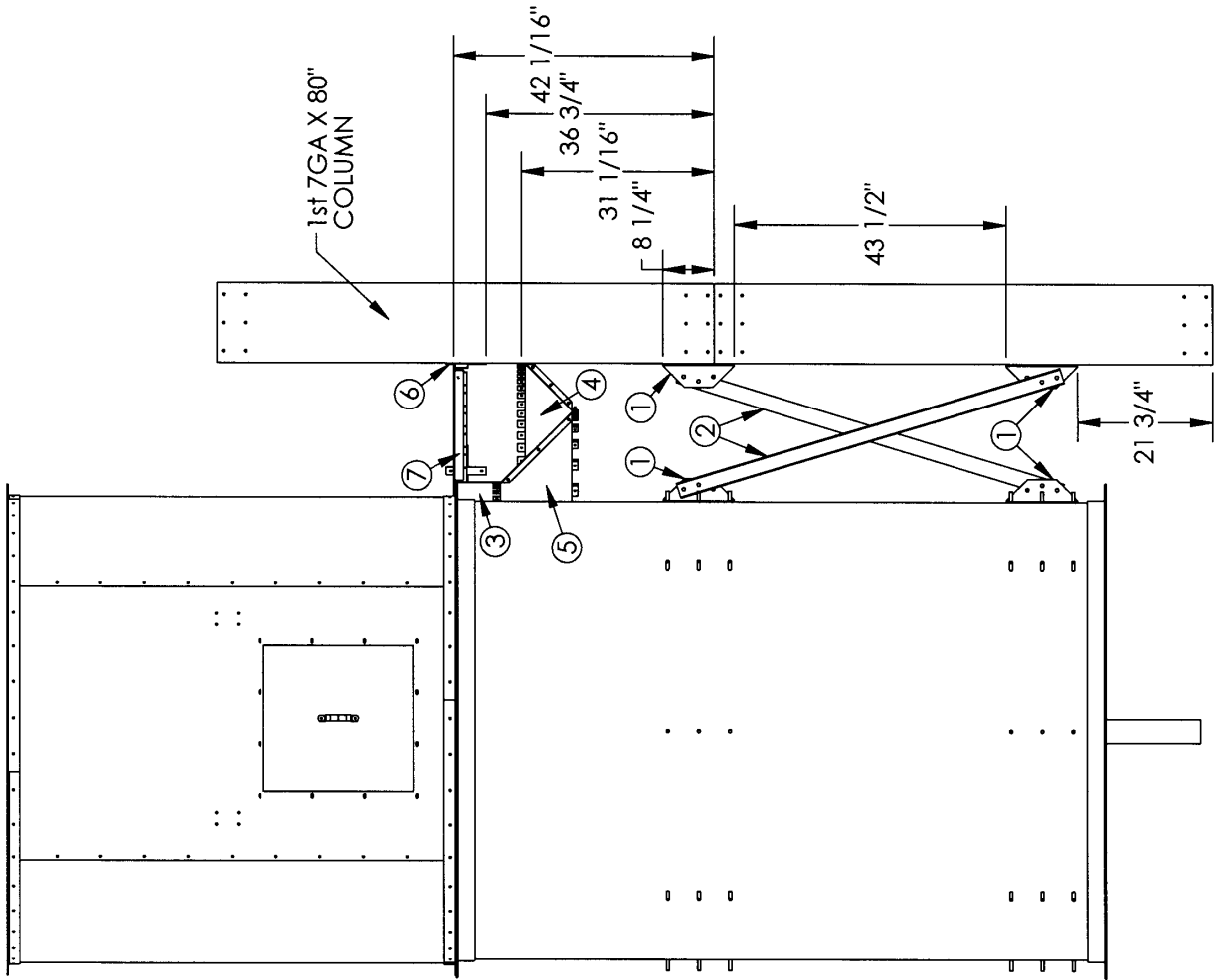
OFFSET SEAMS IN SIDE PANELS AND FLANGE RINGS

542 BURNER HOUSING ASSEMBLY



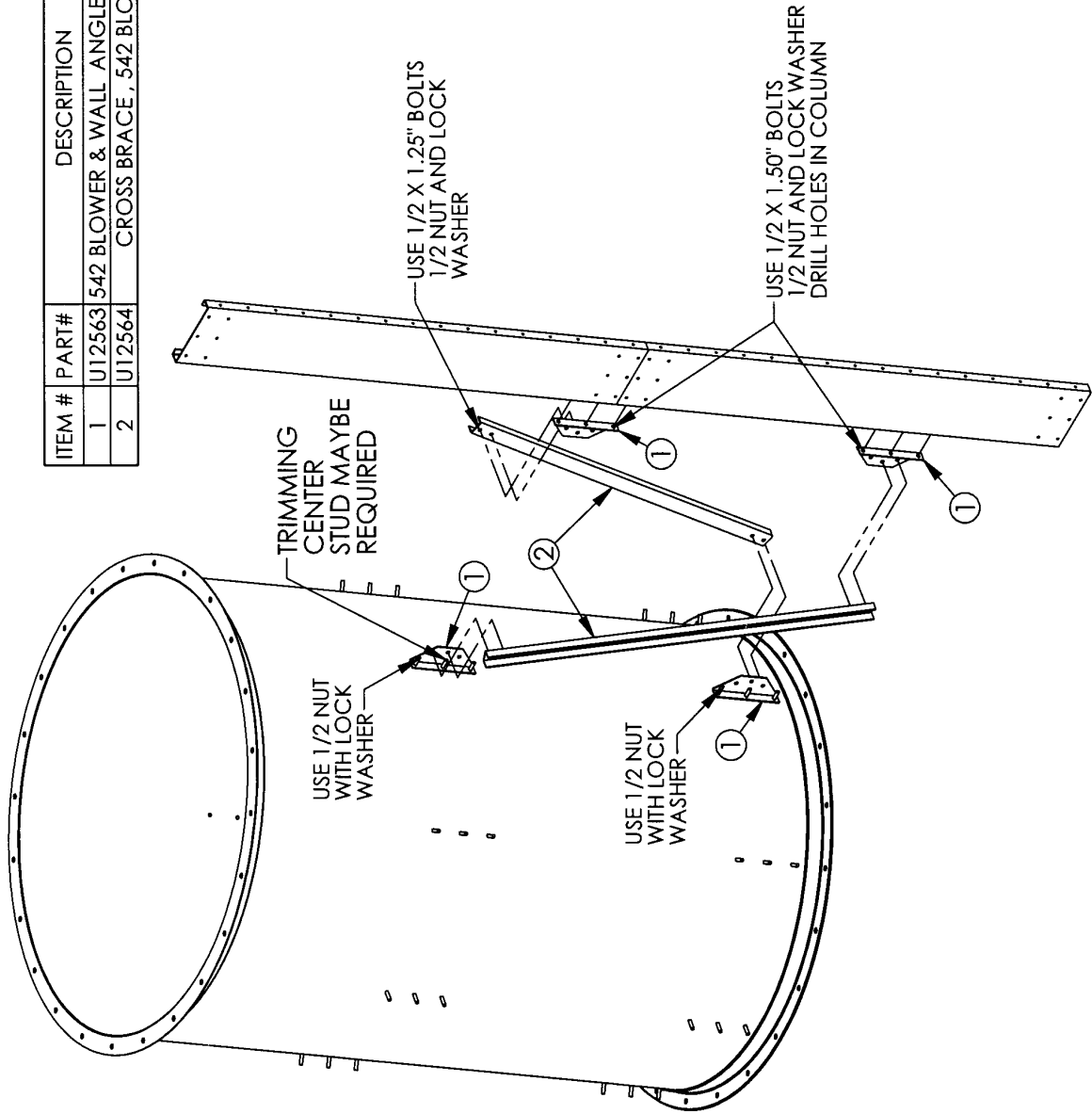
U2012 BLOWER LOCATION

ITEM #	PART #	DESCRIPTION
1	U12563	542 BLOWER & WALL ANGLE BRACKET
2	U12564	CROSS BRACE, 542 BLOWER
3	U12561	SIDE PANEL, 542 DIVIDER CONE
4	U12166	OUTER DIVIDER CONE
5	U12562	542 INNER DIVIDER CONE
6	U12168	WALL BRACKET, MAIN SUPPORT
7	U12559	MAIN SUPPORT, 542 INNER BLOWER WALKWAY



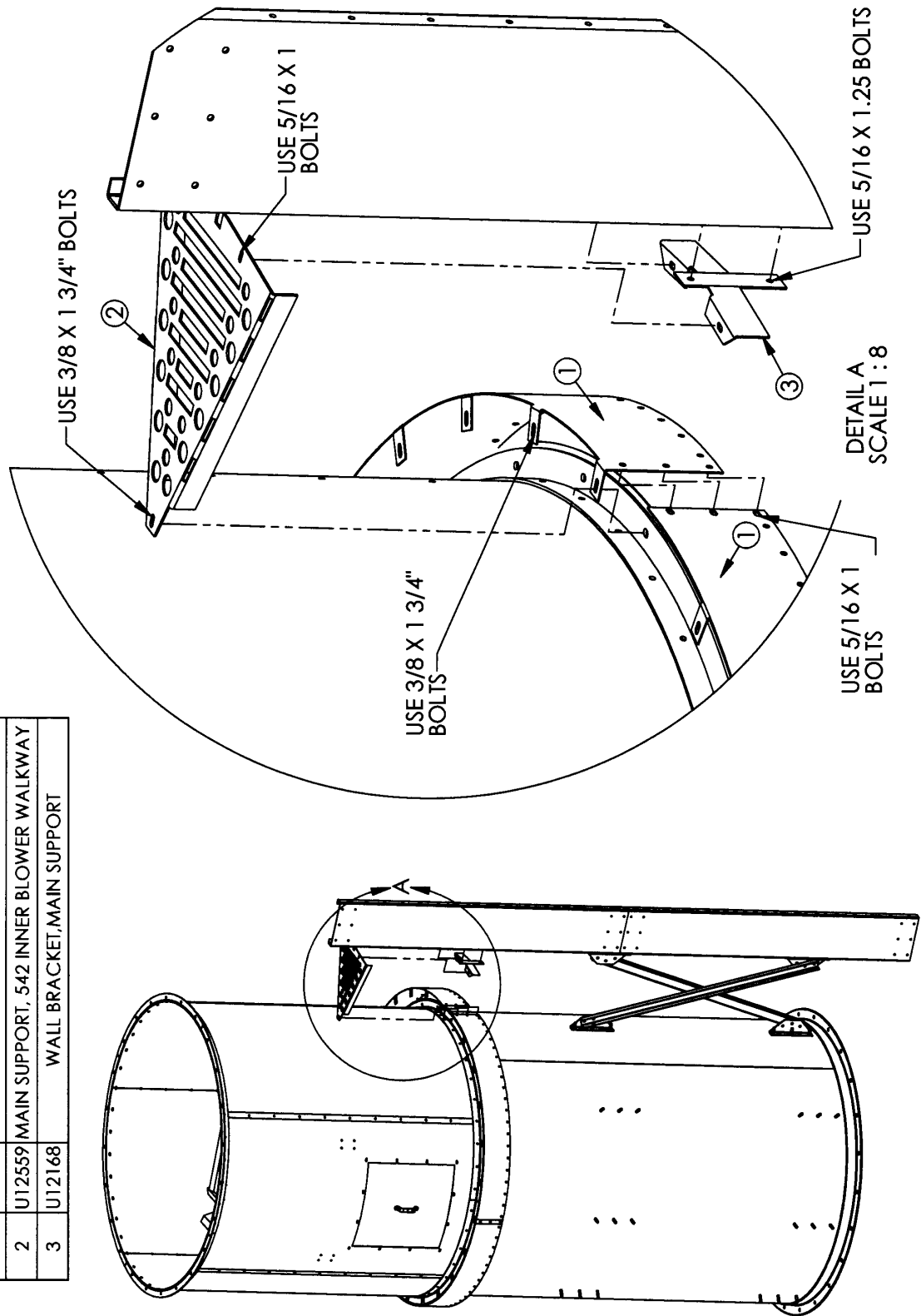
U2012 BLOWER X-BRACE ASSEMBLY

ITEM #	PART#	DESCRIPTION
1	U12563	542 BLOWER & WALL ANGLE BRACKET
2	U12564	CROSS BRACE , 542 BLOWER



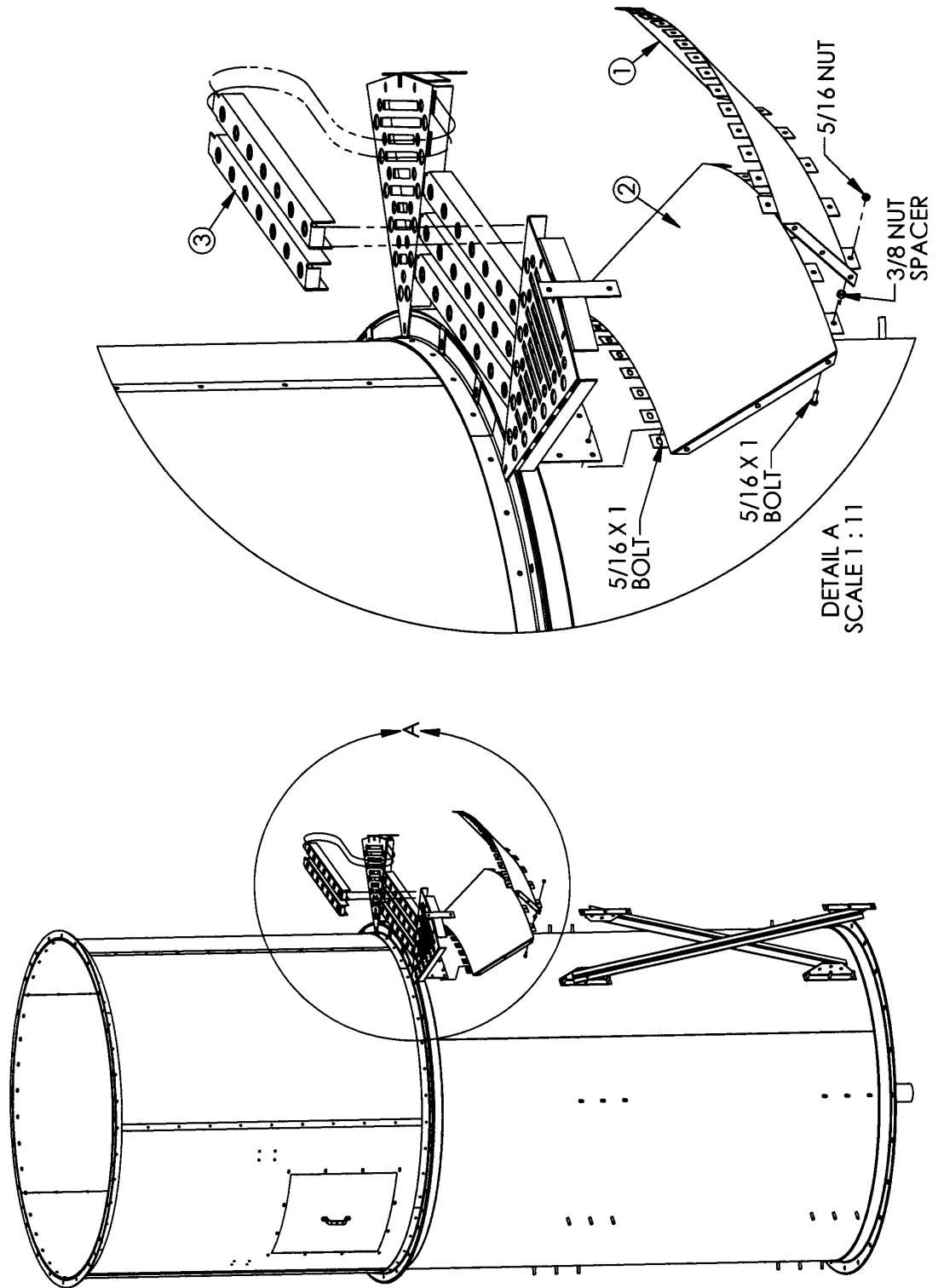
U2012 BLOWER SECTION ASSEMBLY

ITEM #	PART #	DESCRIPTION
1	U12561	SIDE PANEL, 542 DIVIDER CONE
2	U12559	MAIN SUPPORT, 542 INNER BLOWER WALKWAY
3	U12168	WALL BRACKET, MAIN SUPPORT



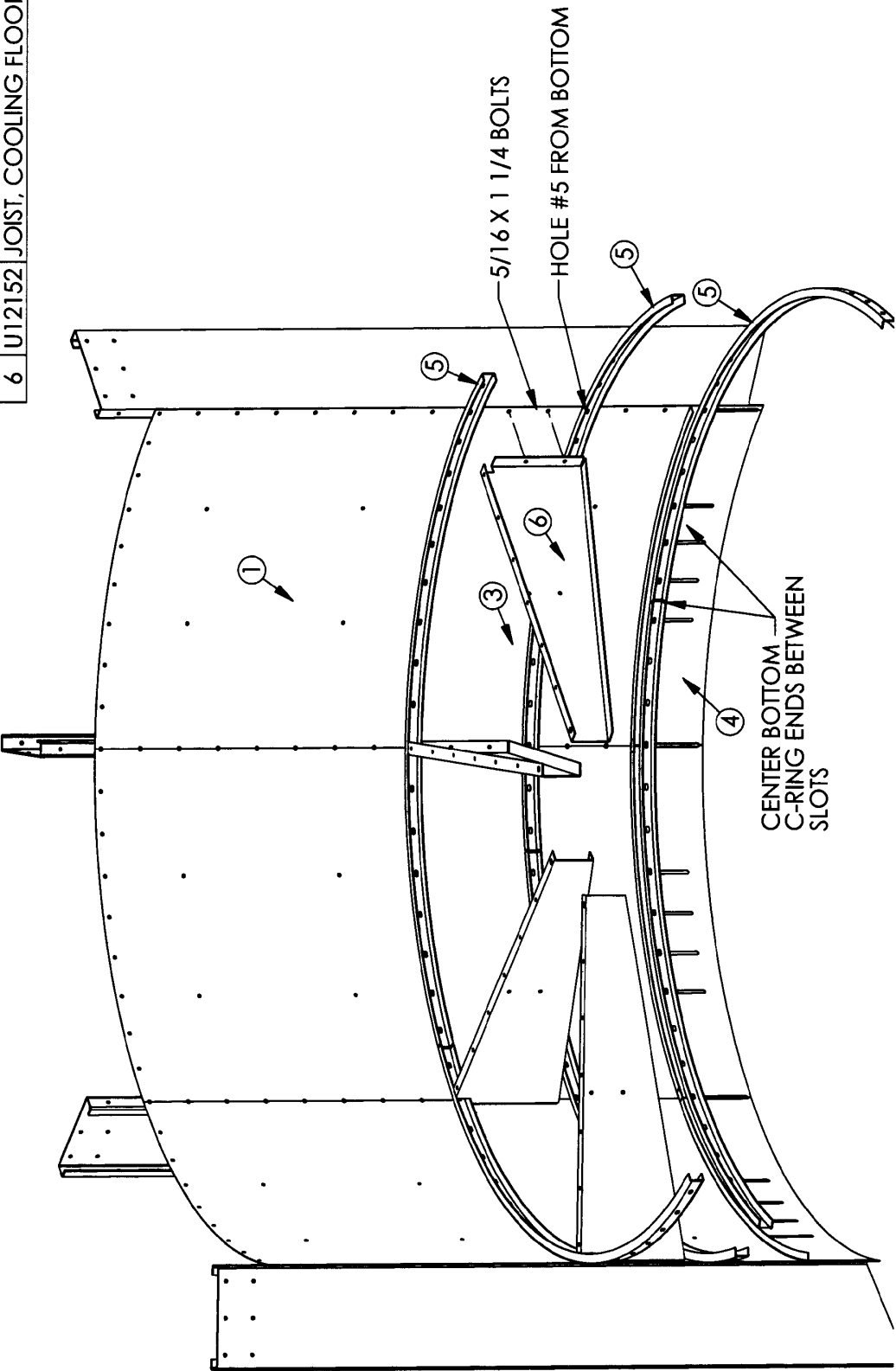
U2012 BLOWER SECTION ASSEMBLY

ITEM #	PART #	DESCRIPTION
1	U12166	OUTER DIVIDER CONE
2	U12562	542 INNER DIVIDER CONE
3	U12558	FOOT RAIL, 542 INNER BLOWER WALK



COOL FLOOR ASSEMBLY STEP 1

REF	PART #	DESCRIPTION
1	U12145	INNER LOWER PERF .063, 18 GA
3	U12142	INNER BOTTM SOLID
4	U12147	FLOW CONTROL SLIDE PANEL
5	U12143	INNER C RING
6	U12152	JOIST, COOLING FLOOR



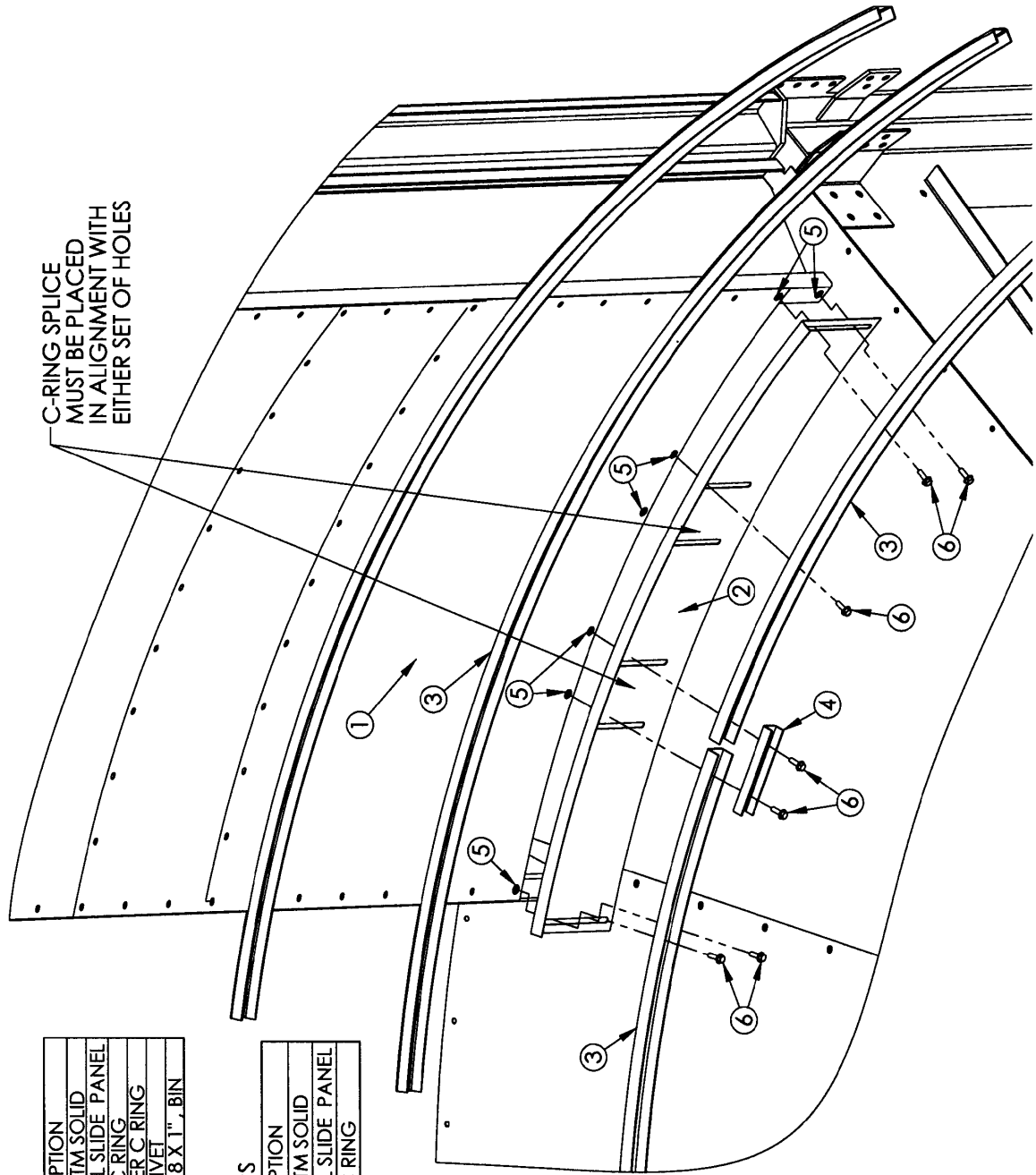
ADJUSTABLE SLIDE GATE ASSEMBLY

18' TOWER DRYERS

ITEM #	PART #	DESCRIPTION
1	U10146	INNER BOTTM SOLID
2	U18189	FLOW CONTROL SLIDE PANEL
3	U18178	INNER C RING
4	U18179	SPLICE INNER C RING
5	J1007	NUT RIVET
6	J0537	BOLT, 5/16-18 X 1", BIN

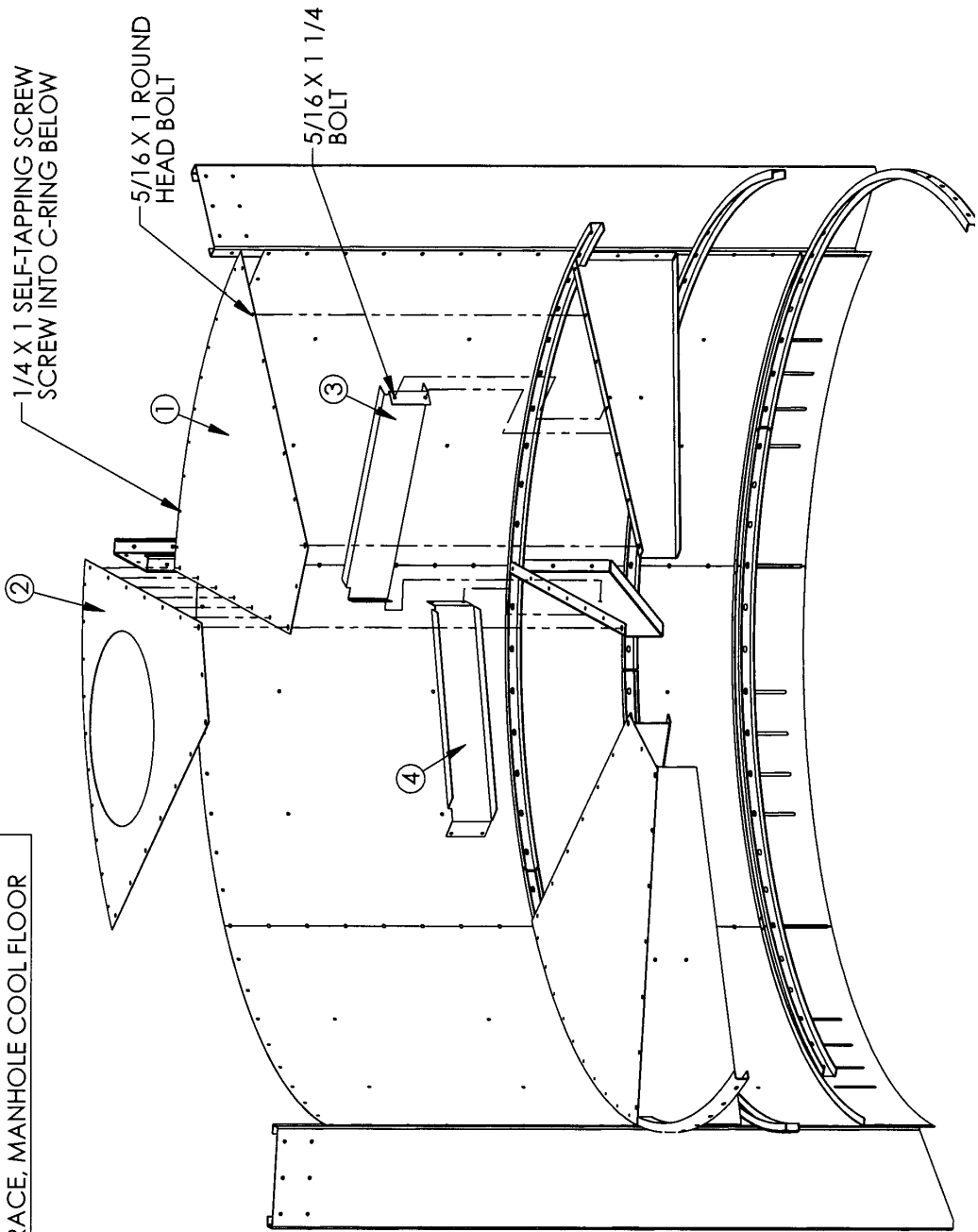
12' TOWER DRYERS

ITEM #	PART #	DESCRIPTION
1	U12142	INNER BOTTM SOLID
2	U12147	FLOW CONTROL SLIDE PANEL
3	U12143	INNER C RING



COOL FLOOR ASSEMBLY STEP 2

REF	PART #	DESCRIPTION
1	U12148	FLOOR PANEL, COOLING FLOOR
2	U12149	FLOOR PANEL, MANHOLE, COOLING FLOOR
3	U12150	CROSS BRACE, COOL FLOOR
4	U12195	CROSS BRACE, MANHOLE COOL FLOOR

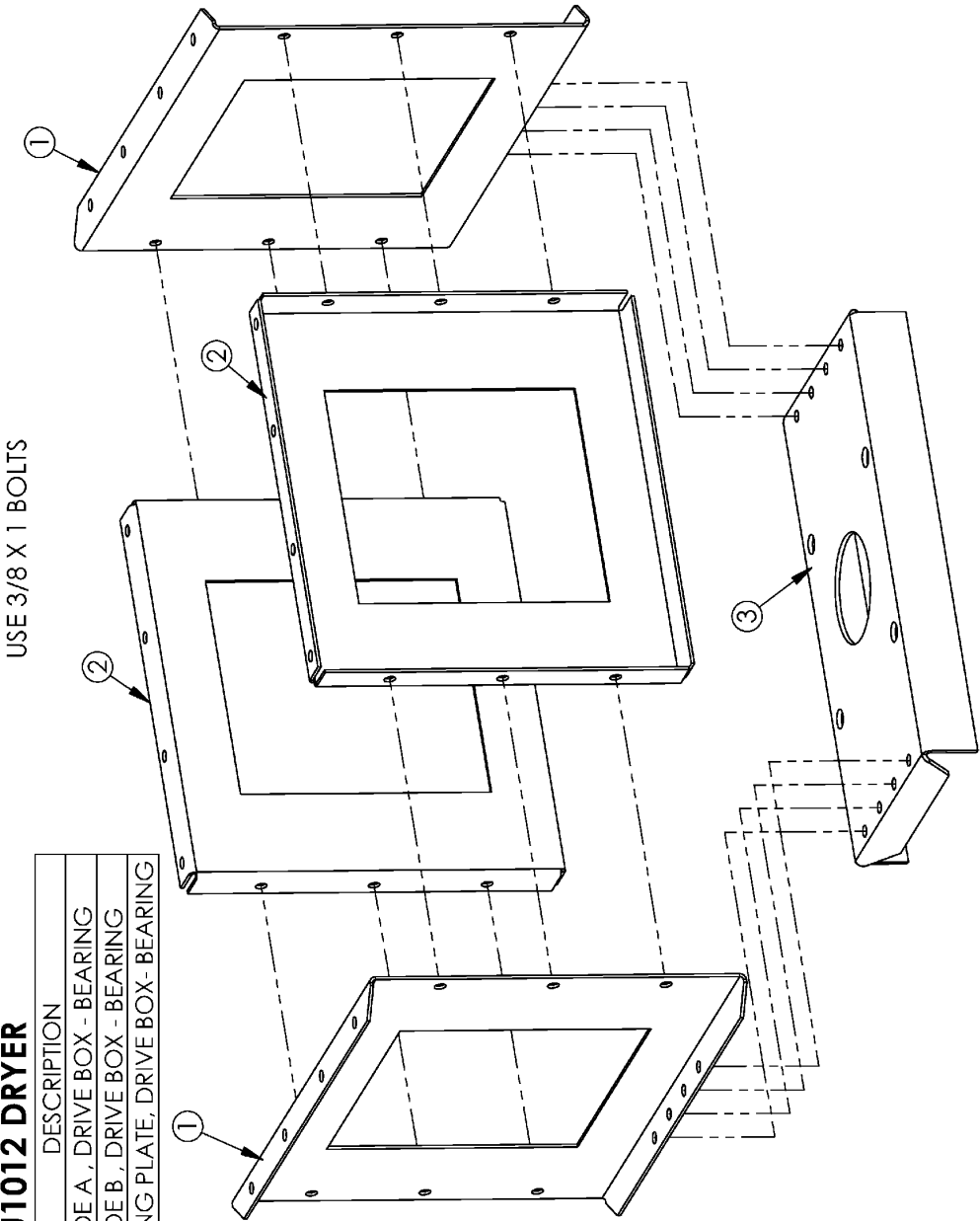


COOL FLOOR ASSEMBLY STEP 3

ITEM NO.	PART NO.	DESCRIPTION
1	U18829	SIDE A, DRIVE BOX - BEARING
2	U18830	SIDE B, DRIVE BOX - BEARING
3	U18831	BEARING PLATE, DRIVE BOX - BEARING

USE ON U1012 DRYER

ITEM NO.	PART NO.	DESCRIPTION
1	U10118	SIDE A, DRIVE BOX - BEARING
2	U10119	SIDE B, DRIVE BOX - BEARING
3	U10120	BEARING PLATE, DRIVE BOX - BEARING

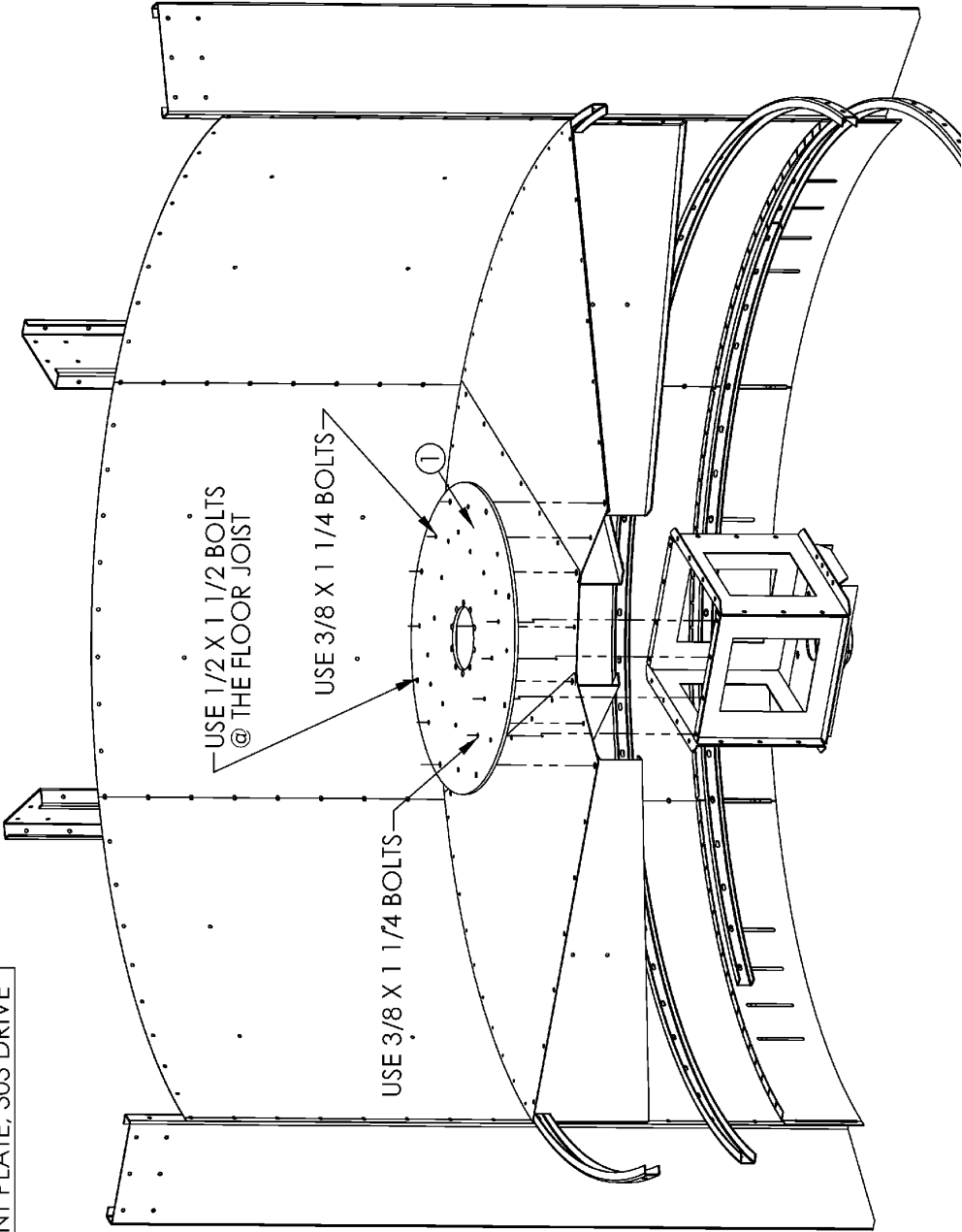


COOL FLOOR ASSEMBLY STEP 4

REF PART #	DESCRIPTION
1	U12153 MOUNT PLATE, DRIVE TO COOLING FLOOR

USE ON U1012 DRYER

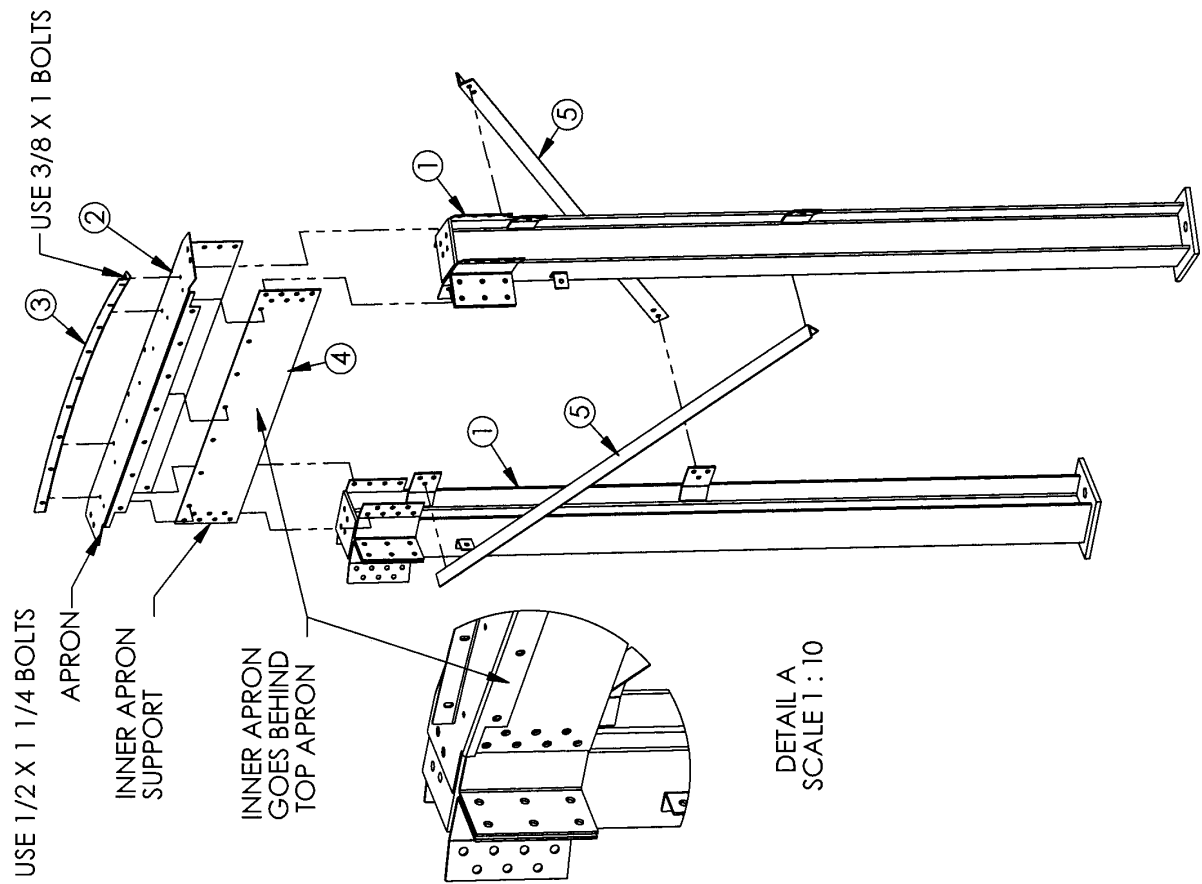
REF PART #	DESCRIPTION
1	U12549 MOUNT PLATE, 303 DRIVE



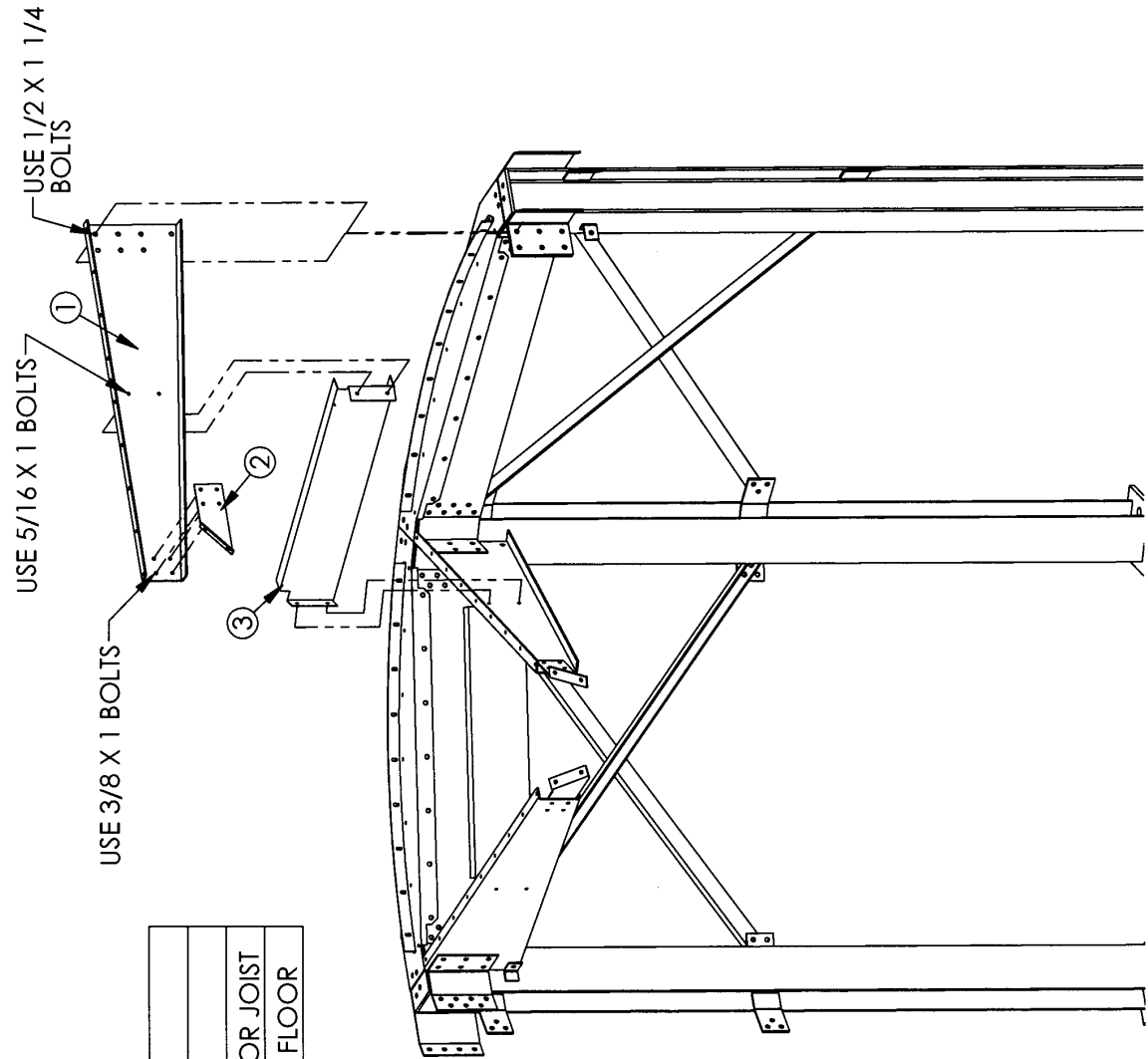
12' TOWER DRYER BASE ASSEMBLY STEP 1

12' TOWER PARTS

REF	QTY	PART #	DESCRIPTION
1	8	U12101	LEG WELDMENT, 12' DIA TOWER DRYER
2	8	U12105	APRON
3	8	U12106	BASE RING, APRON
4	8	U12107	INNER APRON SUPPORT
5	16	U18117	CROSS BRACE ANGLES, LEGS

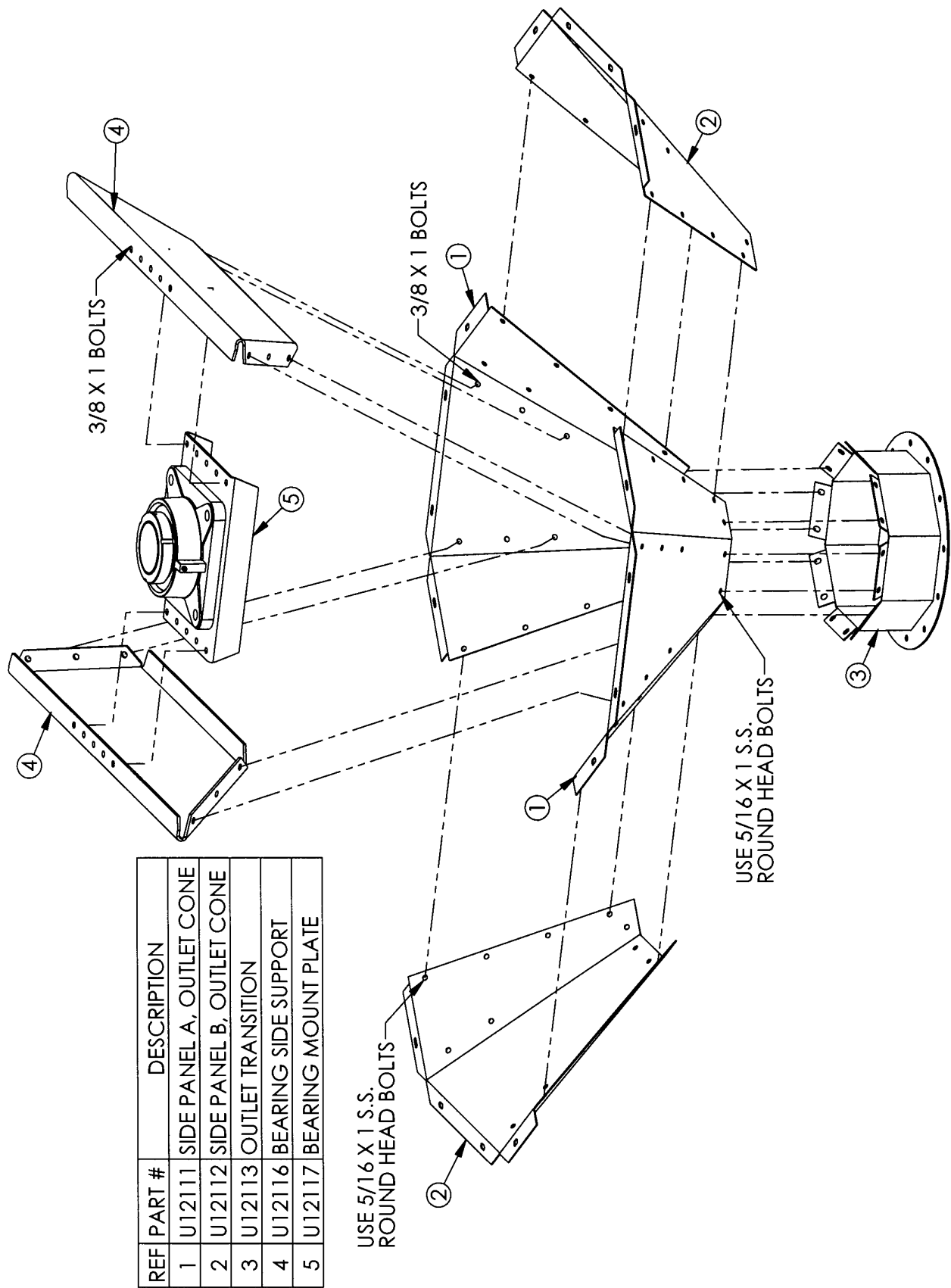


12' TOWER DRYER BASE ASSEMBLY STEP 2



REF	PART #	DESCRIPTION
1	U12108	JOIST, UNLOAD FLOOR
2	U12119	BRACKET, CONE TO FLOOR JOIST
3	U12109	CROSS BRACE, UNLOAD FLOOR

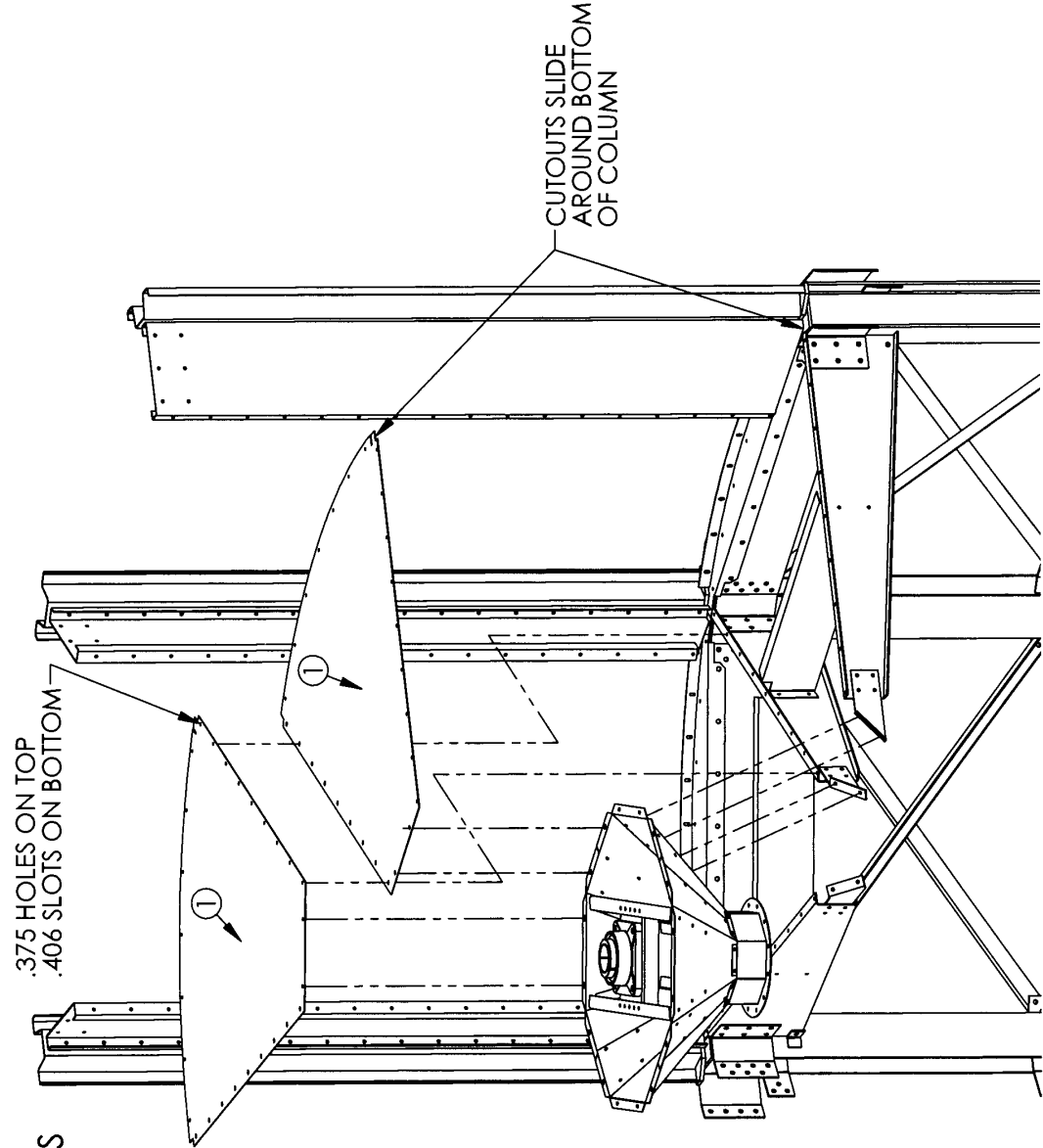
12' TOWER DRYER BASE ASSEMBLY STEP 3



12' TOWER DRYER BASE ASSEMBLY STEP 4

REF	PART #	DESCRIPTION
1	U12110	FLOOR PANEL, UNLOAD FLOOR

USE 5/16 X 1 S.S.
ROUND HEAD BOLTS



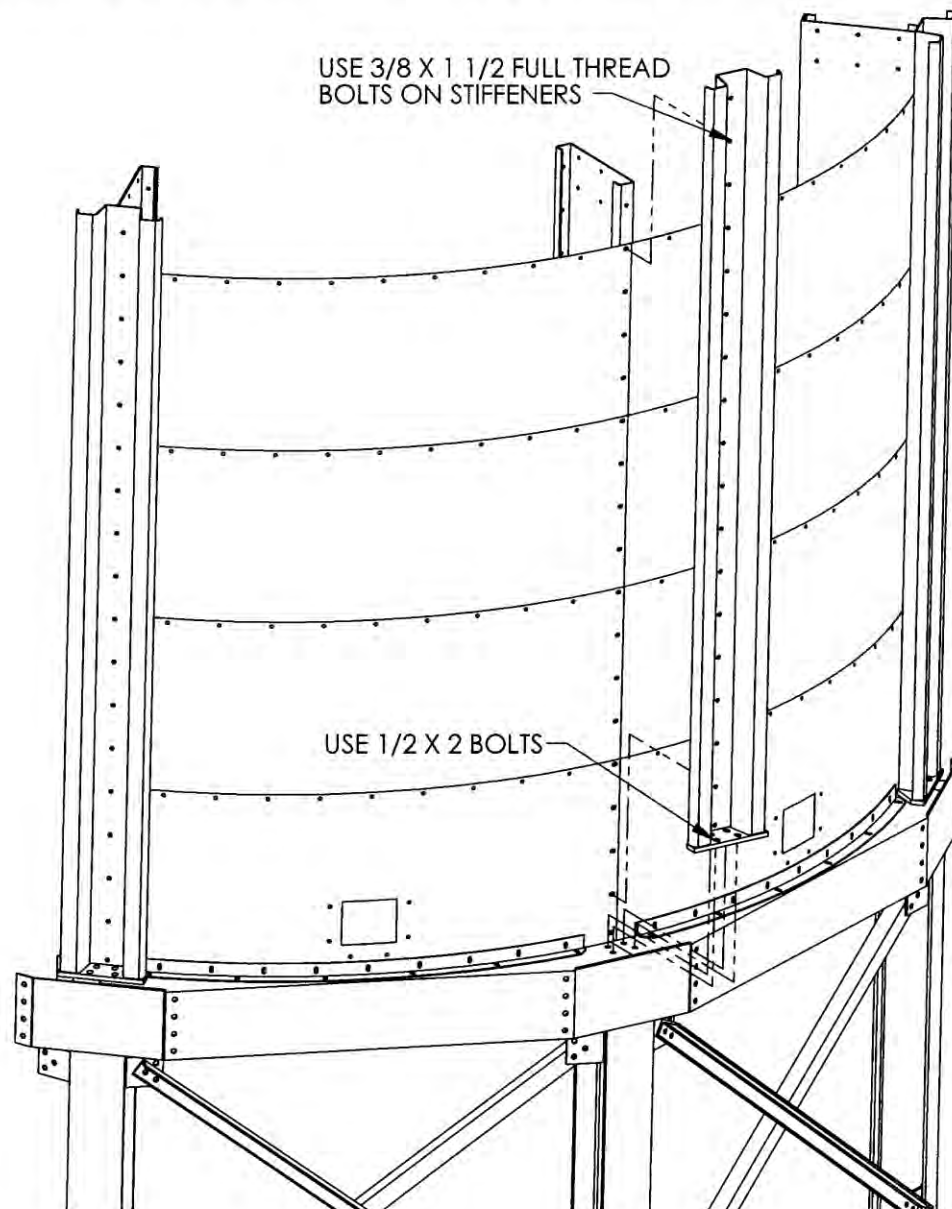
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	U12320	SHIM, BOTTOM CLEANOUT GATE	1
2	U12321	LOCK BRKT,BOTTOM CLEANOUT GATE	1
3	U12322	LOCK BAR,BOTTOM CLEANOUT GATE	1
4	U10153	CLEAN OUT ACCESS DOOR	1

DXF CREATED:

SUKUP MFG. CO. Sukup SUKUP PARKWAY SHEFFIELD, IA. 50475		PART NO. 12' LEGS ASSEMBLY
TOLERANCE UNLESS SPECIFIED .X = ± .050 .XX = ± .010 .XXX = ± .005 FRAC = ± 1/32 ∠ = ± 1°	DRAWN BY DPW DATE 10/17/2013	RAW MATL. NO. MATERIAL
REVISIONS		
B REV.	DESCRIPTION OR ENG. ORDER #	DATE BY
DESCRIPTION		
WEIGHT		
SHEET: 1 OF 1		

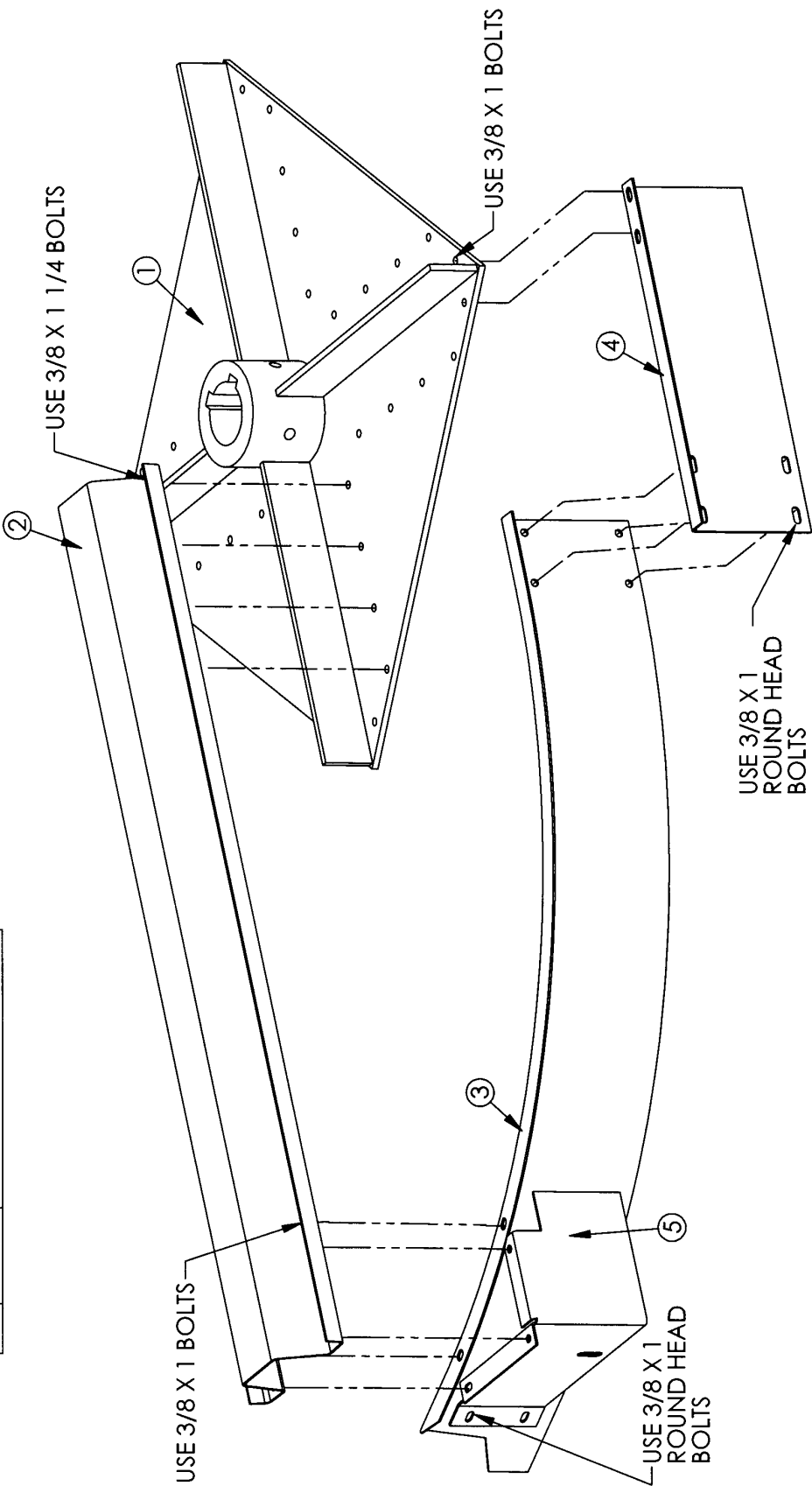
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STIFFENER CONNECTION TO SIDEWALL AND BASE



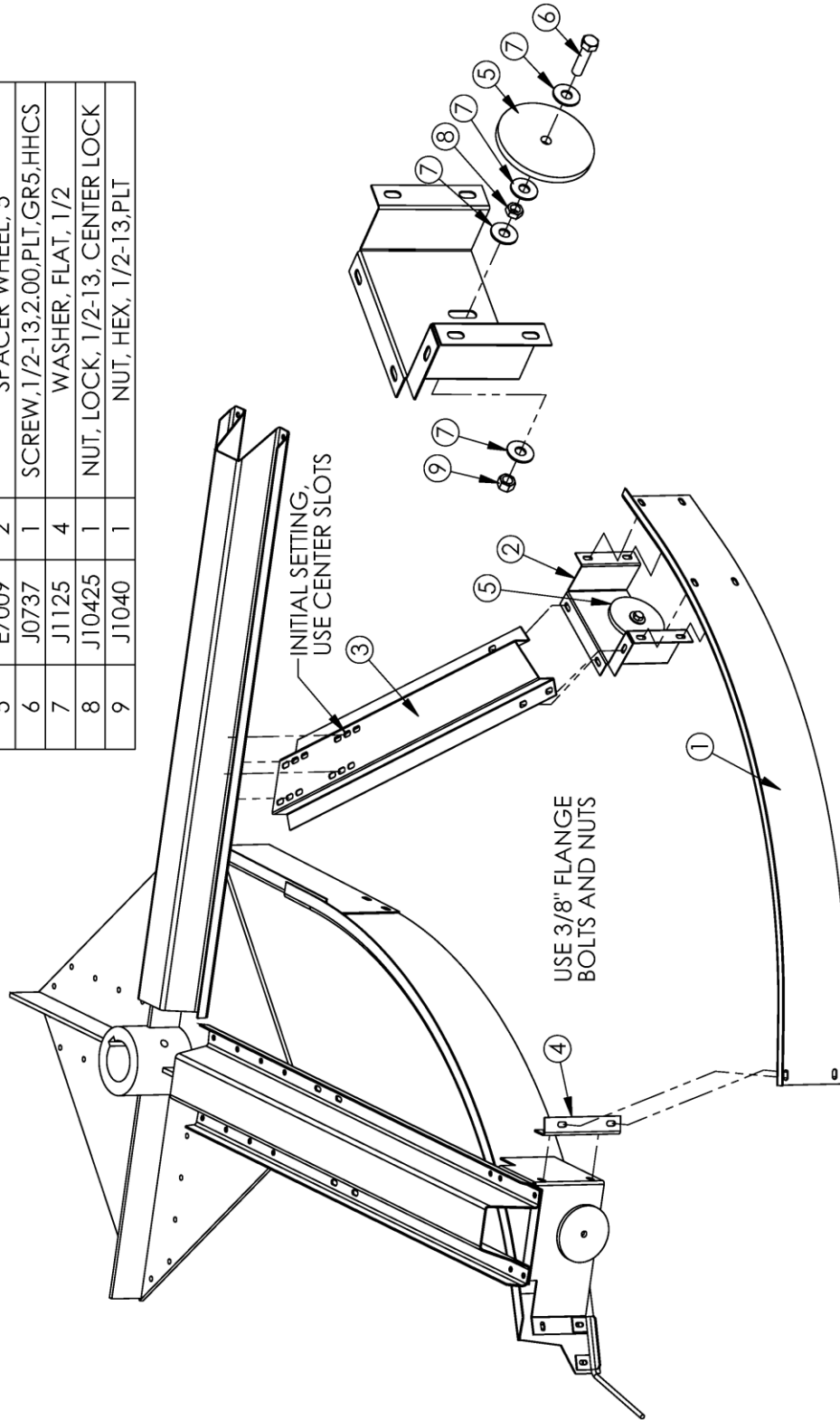
12' UNLOAD ROTOR ASSEMBLY

REF	PART #	DESCRIPTION
1	U12181	DRIVE HUB WELDMENT
2	U12184	MAIN ARM
3	U12185	SCRAPER
4	U18809	EXTENSION, SCRAPER
5	U12186	END WHEEL BRACKET

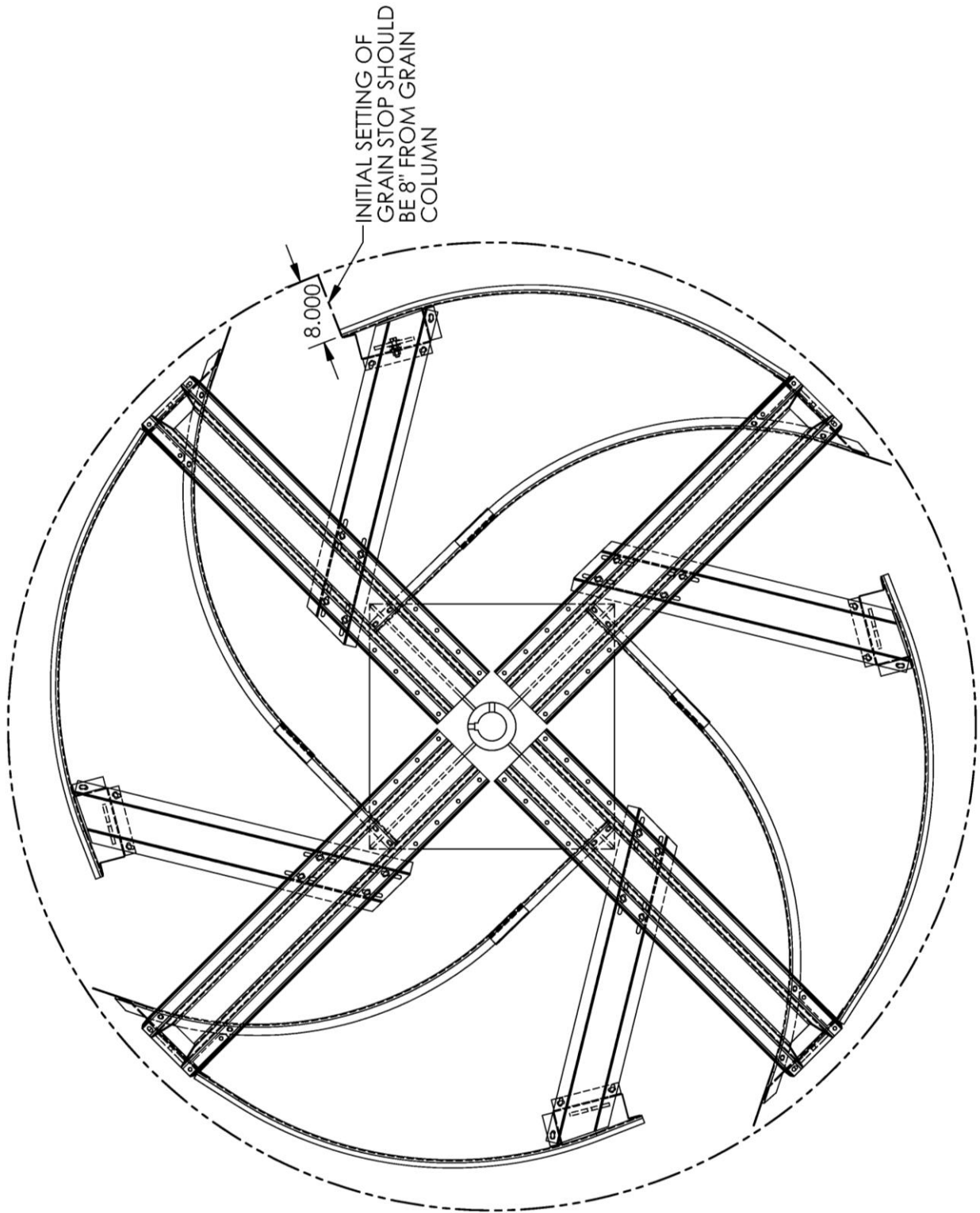


12' TOWER DRYER GRAIN STOP ASSEMBLY

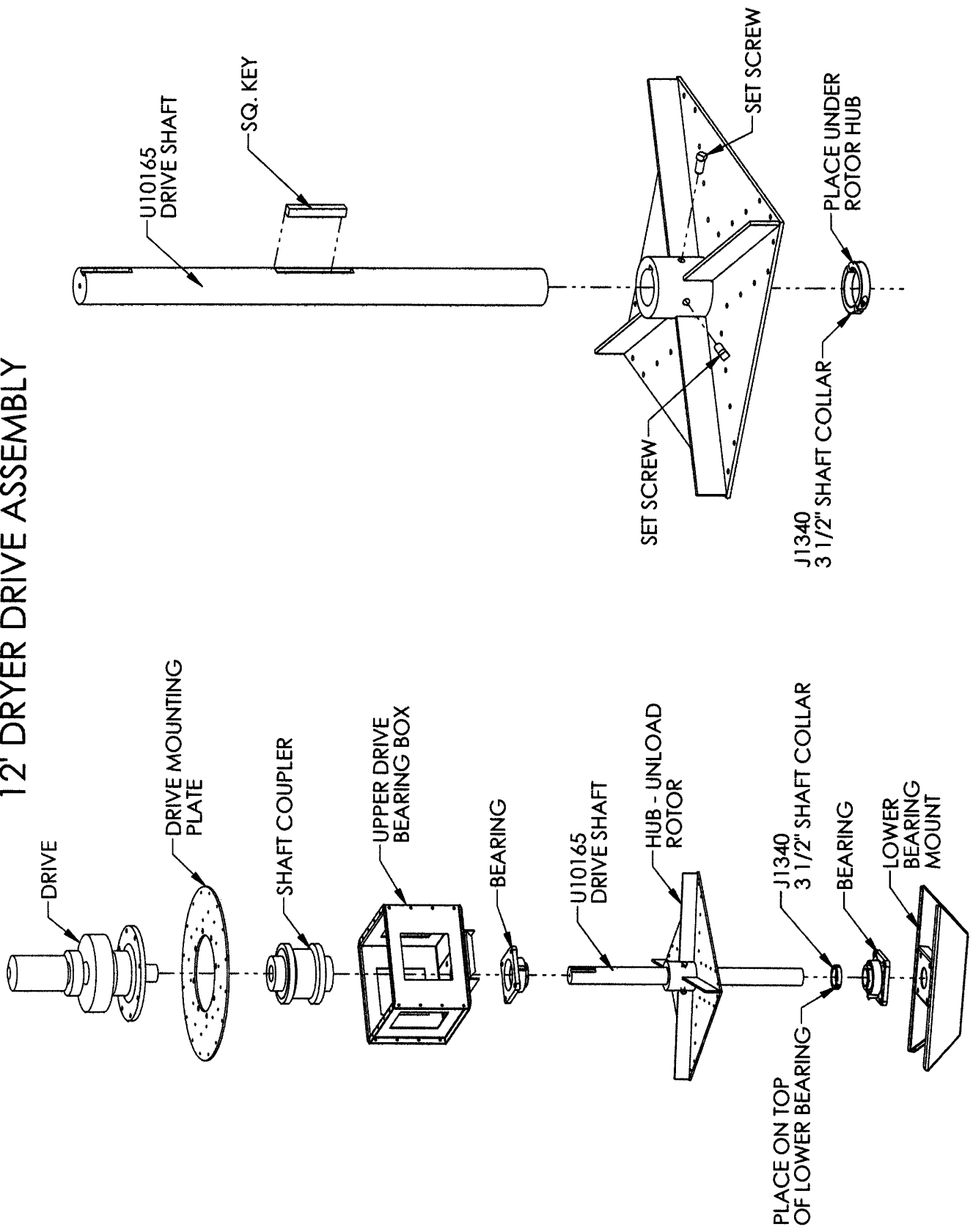
ITEM #	PART #	QTY.	DESCRIPTION
1	U12215	1	BLADE, GRAIN STOP
2	U12216	1	REAR MOUNT BRACKET, BLADE
3	U12217	1	MOUNTING CHANNEL, FLOW BLADE
4	U12218	1	BRACKET, BLADE ATTACHMENT
5	E7009	2	SPACER WHEEL, 5"
6	J0737	1	SCREW, 1/2-13, 2.00, PLT, GR5, HHCS
7	J1125	4	WASHER, FLAT, 1/2
8	J10425	1	NUT, LOCK, 1/2-13, CENTER LOCK
9	J1040	1	NUT, HEX, 1/2-13, PLT



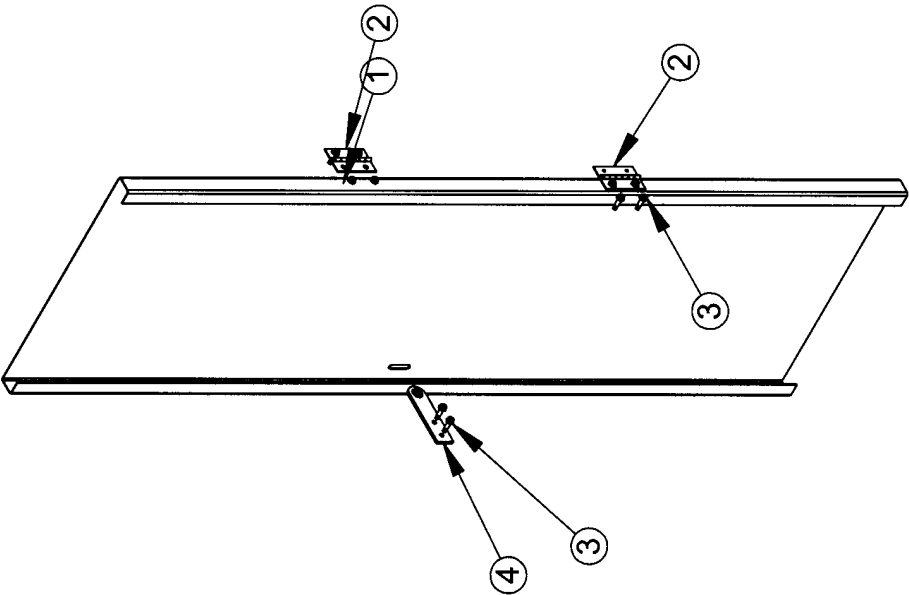
12' TOWER DRYER GRAIN STOP ASSEMBLY



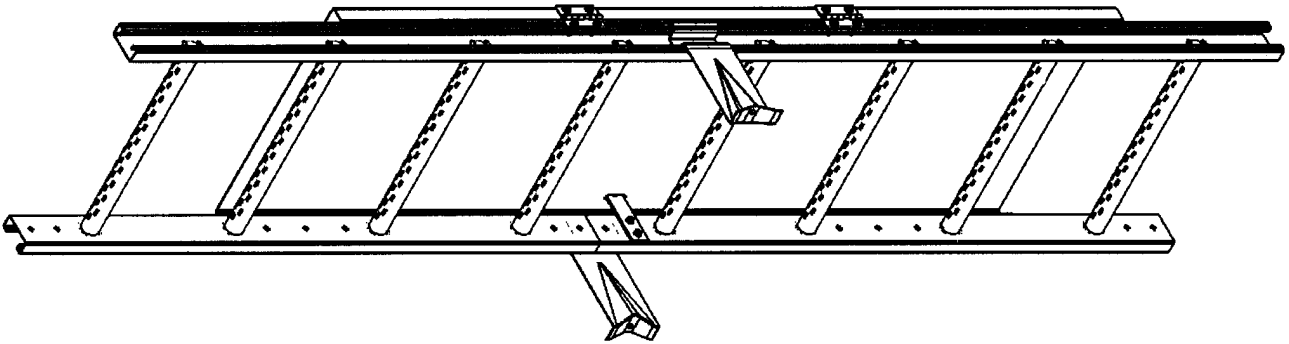
12' DRYER DRIVE ASSEMBLY



ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	U90301	GATE, LADDER, TOWER DRYER
2	2	T17851	HINGE, MOUSTURE SENSOR-REAR
3	10	J0501	SCREW, 1/4-14, 1, PLT, SELFDRILL
4	1	U90302	LATCH, LADDER GATE, TOWER DRYER
5	1	B5084	LADDER, 44"
6	2	B5078	BRACKET, SPLICE, LADDER, OUTSIDE



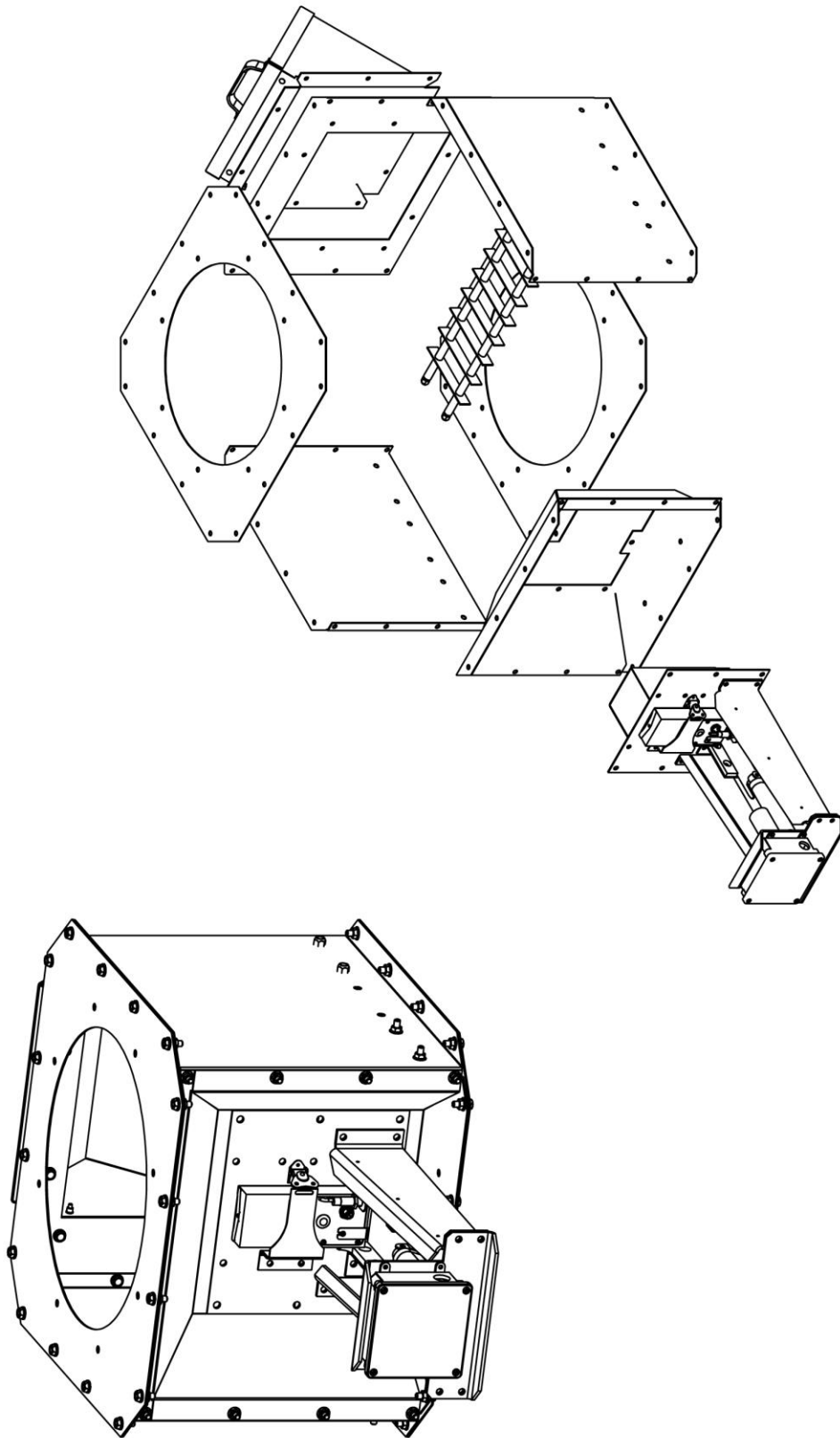
**U90300
TOWER DRYER
LADDER GATE ASSY**



NOTE:
ATTACH HINGES (T17851) TO LADDER GATE (U90301)
WITH 1/4-14 x 1" LG. SELF TAPPING SCREWS (J0501).

POSITION LADDER GATE AND ATTACH HINGES TO
BACK SIDE OF LADDER AS SHOWN WITH 1/4-14 x 1" LG.
SELF TAPPING SCREWS (J0501).

ATTACH LATCH (U90302) TO LADDER AS SHOWN WITH
1/4-14 x 1" LG. SELF TAPPING SCREWS (J0501) AT SLOT
LOCATION OF GATE.



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D	ECO# 5918 AND UPDATED DESCRIPTION TO MATCH	02/20/2019	RPE
REV.	DESCRIPTION OR ENG. ORDER #	DATE	BY

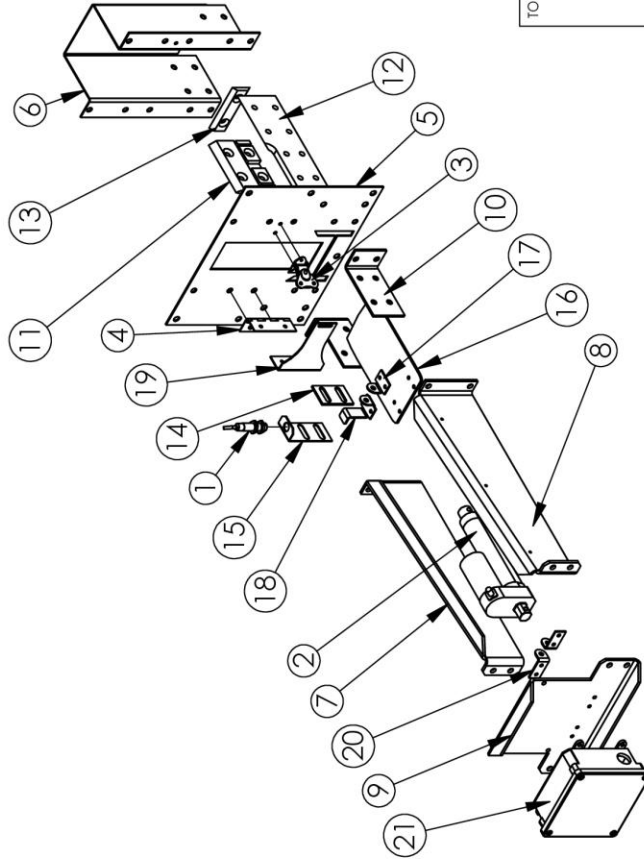
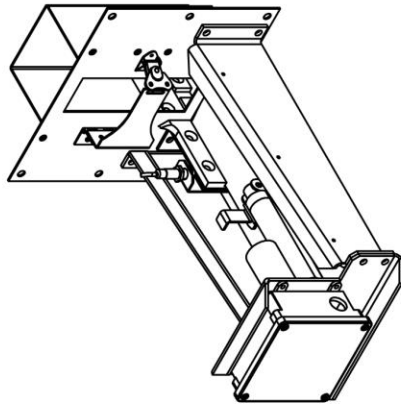
DESCRIPTION	WEIGHT
TOWER DRYER MOISTURE SENSOR	86.29

DESCRIPTION	SHEET: 1 OF 2
MSTR SNSR,DSCHRG,ASSY,STATIC	

TOLERANCE UNLESS SPECIFIED	DRAWN BY	DATE	DATE	DATE	DATE
.X = ± .050	MM	05/20/2013			
.XX = ± .010					
.XXX = ± .005					
FRACTION = ± 1/32					
ANGLE = ± 1°					

RAW MAT'L NO.	PART NO.
	U10780

SUKUP MFG. CO.	SUKUP PARKWAY	SHEFFIELD, IA. 50475
Sukup		



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ITEM NO.	PART NO.	DESCRIPTION	QTY.
1	J4493	SWITCH, PROXIMITY, PNP, 24VDC	1
2	J8260	ACTUATOR, LINEAR, 24VOLT, 100#	1
3	T17416	LATCH, 13/64 MOUNT HOLES	1
4	T17851	HINGE, MOISTURE SENSOR-REAR	1
5	T50781	PLATE, TEST CELL, MOISTURE SNSR	1
6	T50782	CELL, TEST, MOISTURE SENSOR	1
7	T50783	BRACKET, LEFT SIDE, ACTUATOR	1
8	T50784	BRACKET, RIGHT SIDE, ACTUATOR	1
9	T50785	BRACKET, REAR, ACTUATOR	1
10	T50786	BRACKET, SLIDE, GATE, TEST CELL	2
11	T50787	SLIDE, GATE, LEFT, TEST CELL	1
12	T50788	SLIDE, GATE, RIGHT, TEST CELL	1
13	T50789	SEAL, GATE, BACK, TEST CELL	1
14	T50790	SPACER, BRACKET, PROX SENSOR	1
15	T50791	BRACKET, PROX SENSOR, ACTUATOR	1
16	T50792	GATE, TEST CELL, MOISTURE SENSOR	1
17	T50793	MOUNT, TAB, LEFT, LINEAR ACTUATOR	1
18	T50794	MOUNT, TAB, RT, LINEAR ACTUATOR	1
19	T50795	BKT, RETAINER, MOISTURE SENSOR	1
20	U10789	MOUNT, TAB, LINEAR ACTUATOR	2
21	U10797	BOX, TERMINAL, TWR MSTR SNSR	1

TOLERANCE UNLESS SPECIFIED
 .X = ± .050
 .XX = ± .010
 .XXX = ± .005
 FRAC = ± 1/32
 = ± 1°

SUKUP MFG. CO.
Sukup
 SUKUP PARKWAY
 SHEFFIELD, IA. 50475
 PART NO. T50780
 RAW MATL. NO. -----
 MATERIAL -----

DRAWN BY RPE
 DATE 11/27/2018
 DESCRIPTION MOISTURE SENSOR, GRAIN DRYER
 DESCRIPTION SAMPLER, GRAIN, STATIC, INSRT, ASY

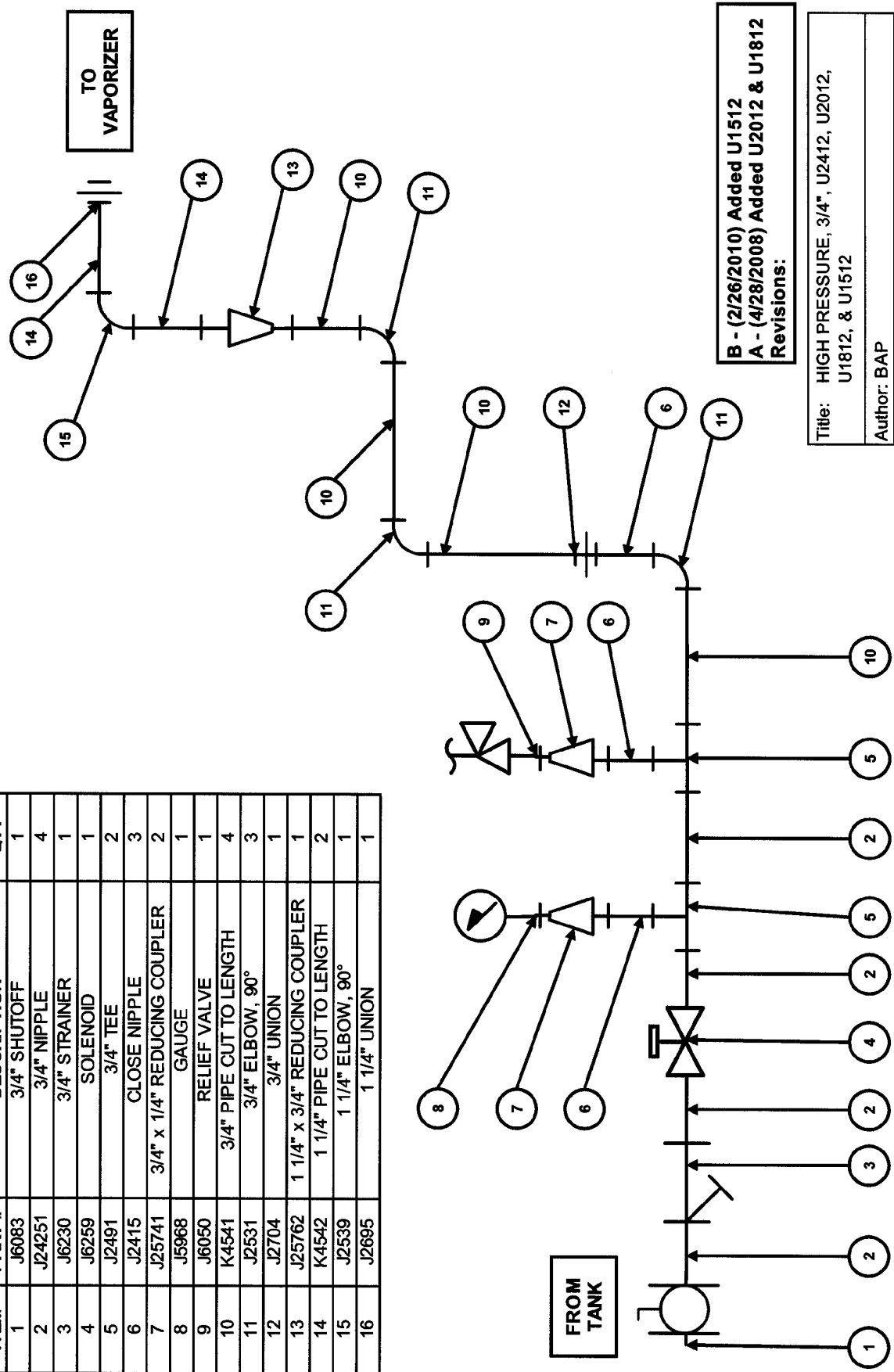
REV.	DATE	BY	DESCRIPTION
A	04/11/2019	RPE	SWITCH LOCATIONS J4492, T50790, T50791, T5079
3	11/27/2018	RPE	DESCRIPTION OR ENG. ORDER #

REVISIONS

WEIGHT 25.18

SHEET: 1 OF 1

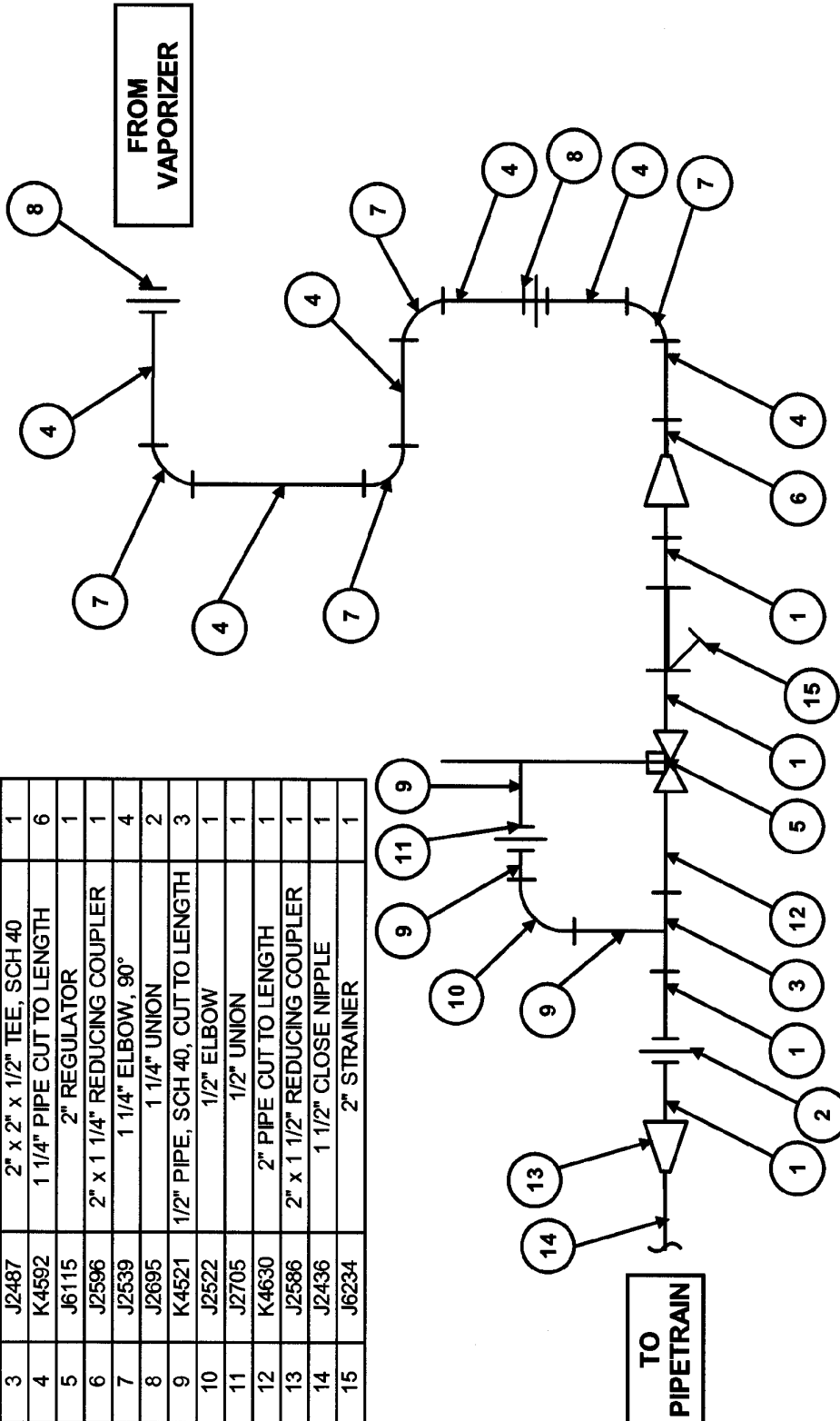
BOM, HIGH PRESSURE, 3/4"			
ITEM	PART #	DESCRIPTION	QTY
1	J6083	3/4" SHUTOFF	1
2	J24251	3/4" NIPPLE	4
3	J6230	3/4" STRAINER	1
4	J6259	SOLENOID	1
5	J2491	3/4" TEE	2
6	J2415	CLOSE NIPPLE	3
7	J25741	3/4" x 1/4" REDUCING COUPLER	2
8	J5968	GAUGE	1
9	J6050	RELIEF VALVE	1
10	K4541	3/4" PIPE CUT TO LENGTH	4
11	J2531	3/4" ELBOW, 90°	3
12	J2704	3/4" UNION	1
13	J25762	1 1/4" x 3/4" REDUCING COUPLER	1
14	K4542	1 1/4" PIPE CUT TO LENGTH	2
15	J2539	1 1/4" ELBOW, 90°	1
16	J2695	1 1/4" UNION	1



B - (2/26/2010) Added U1512
 A - (4/28/2008) Added U2012 & U1812
 Revisions:

Title: HIGH PRESSURE, 3/4", U2412, U2012, U1812, & U1512	
Author: BAP	
Date: 6/15/06	Sheet: 1 OF 1
Revision: A	SUKUP MFG. CO.

BOM, HIGH PRESSURE, 1 1/4", U2012, U1812, U1512			
ITEM	PART #	DESCRIPTION	QTY
1	J2442	2" x 4" NIPPLE	4
2	J2709	2" UNION	1
3	J2487	2" x 2" x 1/2" TEE, SCH 40	1
4	K4592	1 1/4" PIPE CUT TO LENGTH	6
5	J6115	2" REGULATOR	1
6	J2596	2" x 1 1/4" REDUCING COUPLER	1
7	J2539	1 1/4" ELBOW, 90°	4
8	J2695	1 1/4" UNION	2
9	K4521	1/2" PIPE, SCH 40, CUT TO LENGTH	3
10	J2522	1/2" ELBOW	1
11	J2705	1/2" UNION	1
12	K4630	2" PIPE CUT TO LENGTH	1
13	J2586	2" x 1 1/2" REDUCING COUPLER	1
14	J2436	1 1/2" CLOSE NIPPLE	1
15	J6234	2" STRAINER	1

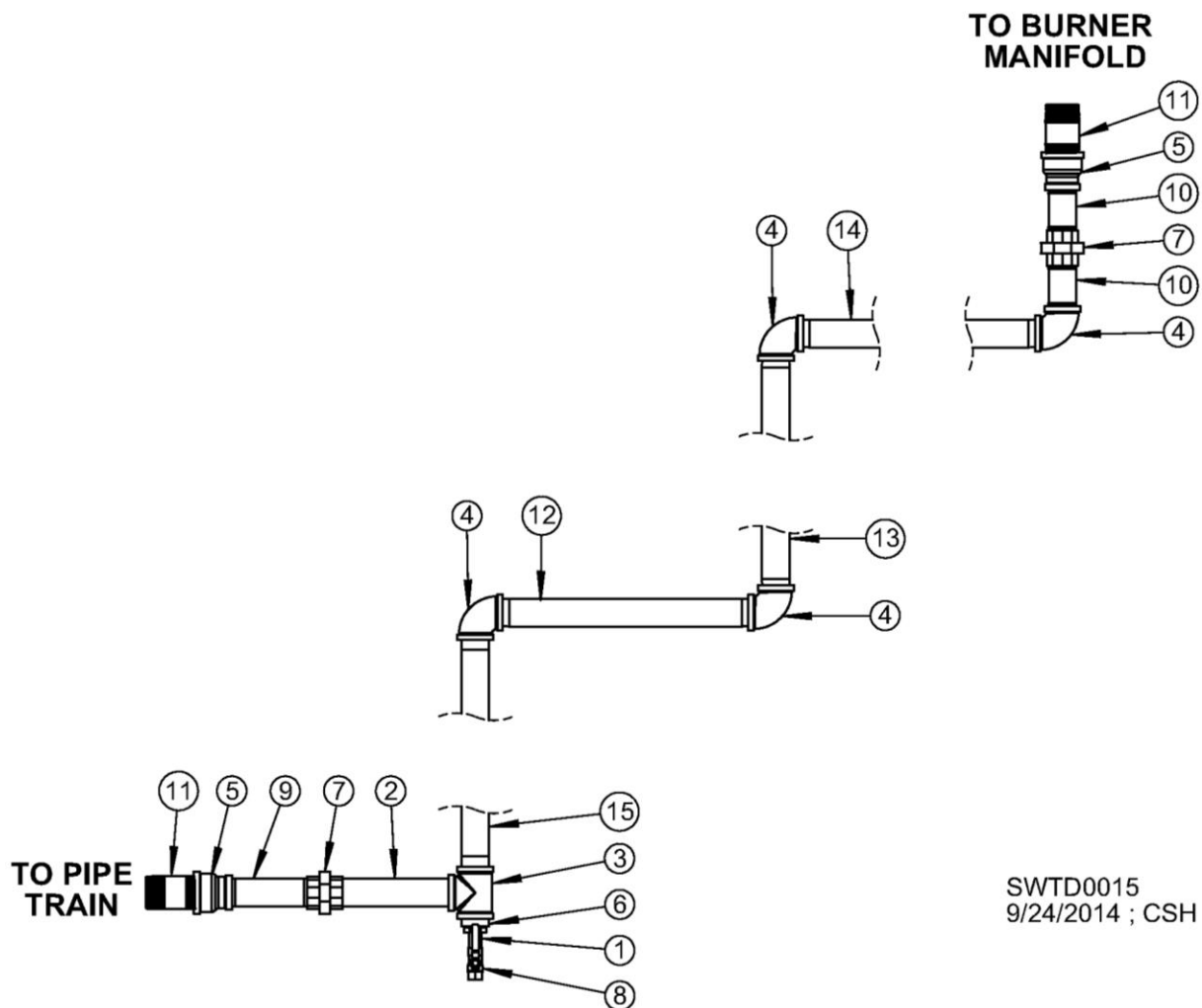


Title: HIGH PRESSURE, 1 1/4", U2012, U1812, & U1512	
Author: BAP	
Date: 4/28/08	Sheet: 1 of 1
Revision: C	SUKUP MFG. CO.

D - (2/26/2010) ADDED U1512 TO DWG DESCRIPTION
C - (1/12/2010) ADDED ITEM 15 AND AN ADDITIONAL ITEM 1
B - (7/10/2009) ADDED ITEMS 13 & 14
A - (5/6/2009) ITEM 3 WAS J2557
Revisions:

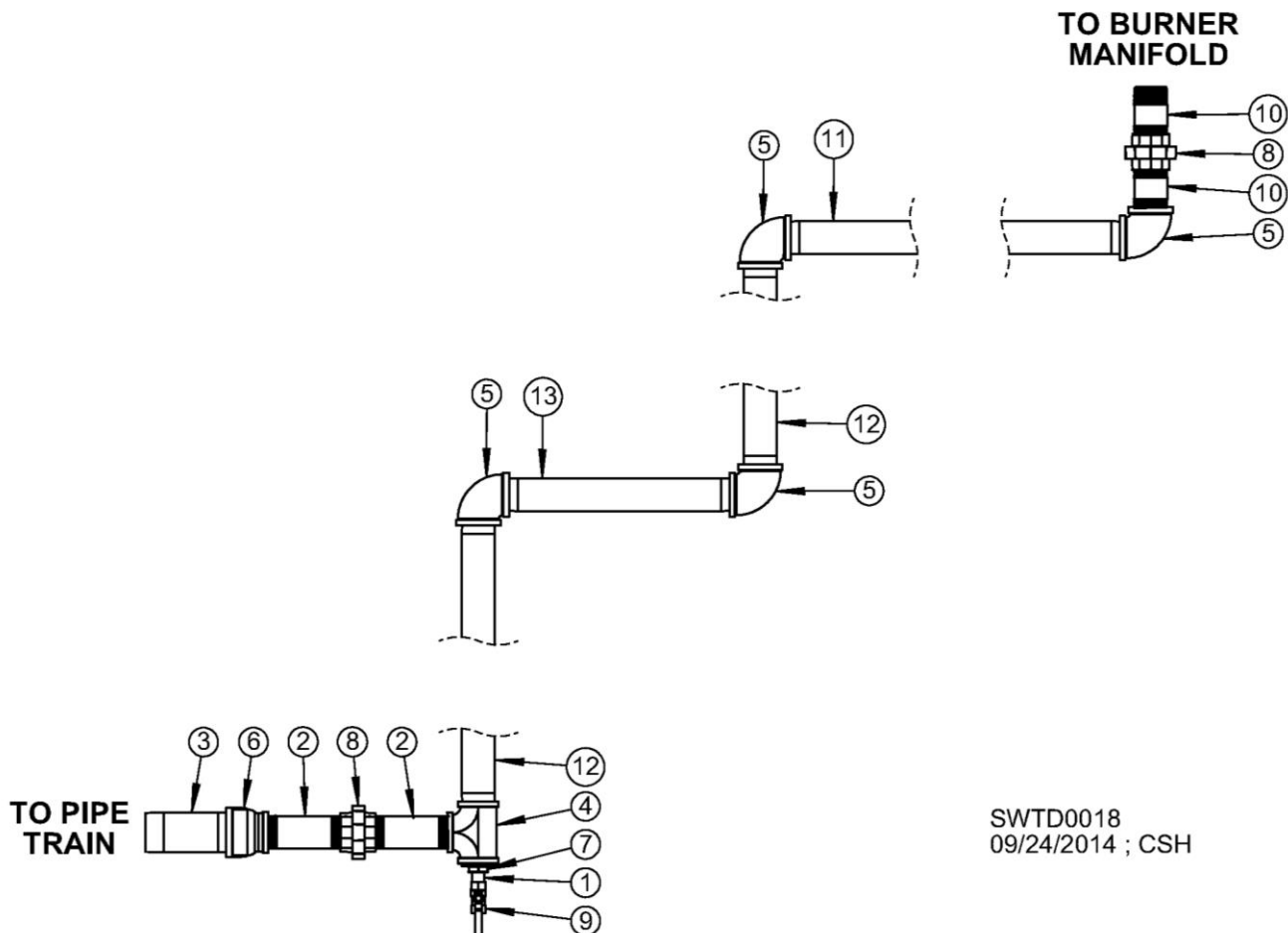
U1812, 2012 TOWER DRYER VAPOR PROPANE PIPE ROUTING FROM PIPE TRAIN TO BURNER MANIFOLD

ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	J2420	NIPPLE, 3/4" X 2", SCH40
2	1	J2462	NIPPLE, 2 X 10, SCH 40
3	1	J2496	TEE, 2x2x2, SCH 40
4	4	J2543	ELBOW, 2", 90DEG, SCH 40
5	2	J2557	COUPLING, RED., 2.5"X2", SCH40
6	1	J2593	BUSHING, RED, 2"X3/4", SCH 40
7	2	J2709	UNION, 2", SCH 40
8	1	J6083	VALVE, 3/4", BALL
9	1	J24421	NIPPLE, 2 X 8", SCH 40
10	2	J24423	NIPPLE, 2"X5", SCH 40
11	2	J24432	NIPPLE, 2 1/2"X5", SCH 40
12	1	U13262	PIPE, 2 X 22", SCH40 THRD
13	1	U13263	PIPE, 2 X 131", SCH40 THRD
14	1	U13264	PIPE, 2 X 52", SCH40 THRD
15	1	U13269	PIPE, 2 X 138, SCH40, THREADED



U1812, U2012 TOWER DRYER NATURAL GAS PIPE ROUTING FROM PIPE TRAIN TO BURNER MANIFOLD

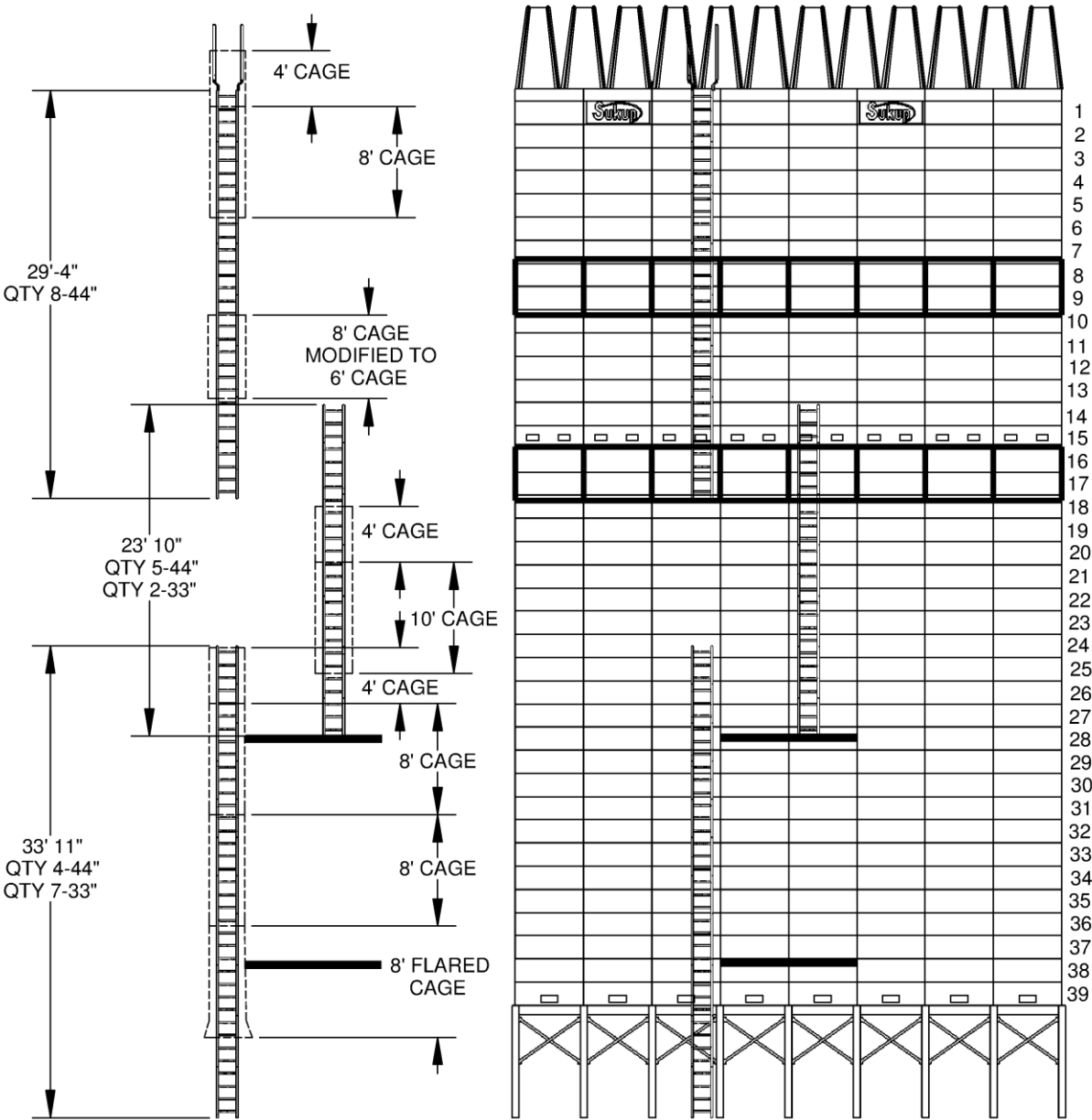
ITEM NO.	QTY.	PART NO.	DESCRIPTION
1	1	J2420	NIPPLE, 3/4" X 2", SCH40
2	2	J2443	NIPPLE, 2 1/2" x 8", SCH 40
3	1	J2450	NIPPLE, 8" X 3", SCH 40, THREADED
4	1	J2493	TEE, 2 1/2" x 2 1/2" x 2 1/2", SCH40
5	4	J2546	ELBOW, 2.5", 90DEG, SCH 40
6	1	J2558	COUPLER,RED,3 X 2 1/2,SCH 40
7	1	J2594	BUSHING,RED,2 1/2" X 3/4",SCH 40
8	2	J2702	UNION, 2 1/2", SCH 40
9	1	J6083	VALVE, 3/4", BALL
10	2	J24432	NIPPLE,2 1/2"X5",SCH 40
11	1	U13231	PIPE, 2.5" X 51" SCH 40 THREADED
12	2	U13232	PIPE, 2.5" X 137" SCH 40 THREADED
13	1	U13233	PIPE, 2.5" X 21" SCH 40 THREADED



SWTD0018
09/24/2014 ; CSH

LADDER PLACEMENT, 2012 TOWER DRYER

Illustration below shows ladder and cage locations referring to a flat Tower Dryer view



SWU2012
4/11/2011BAP