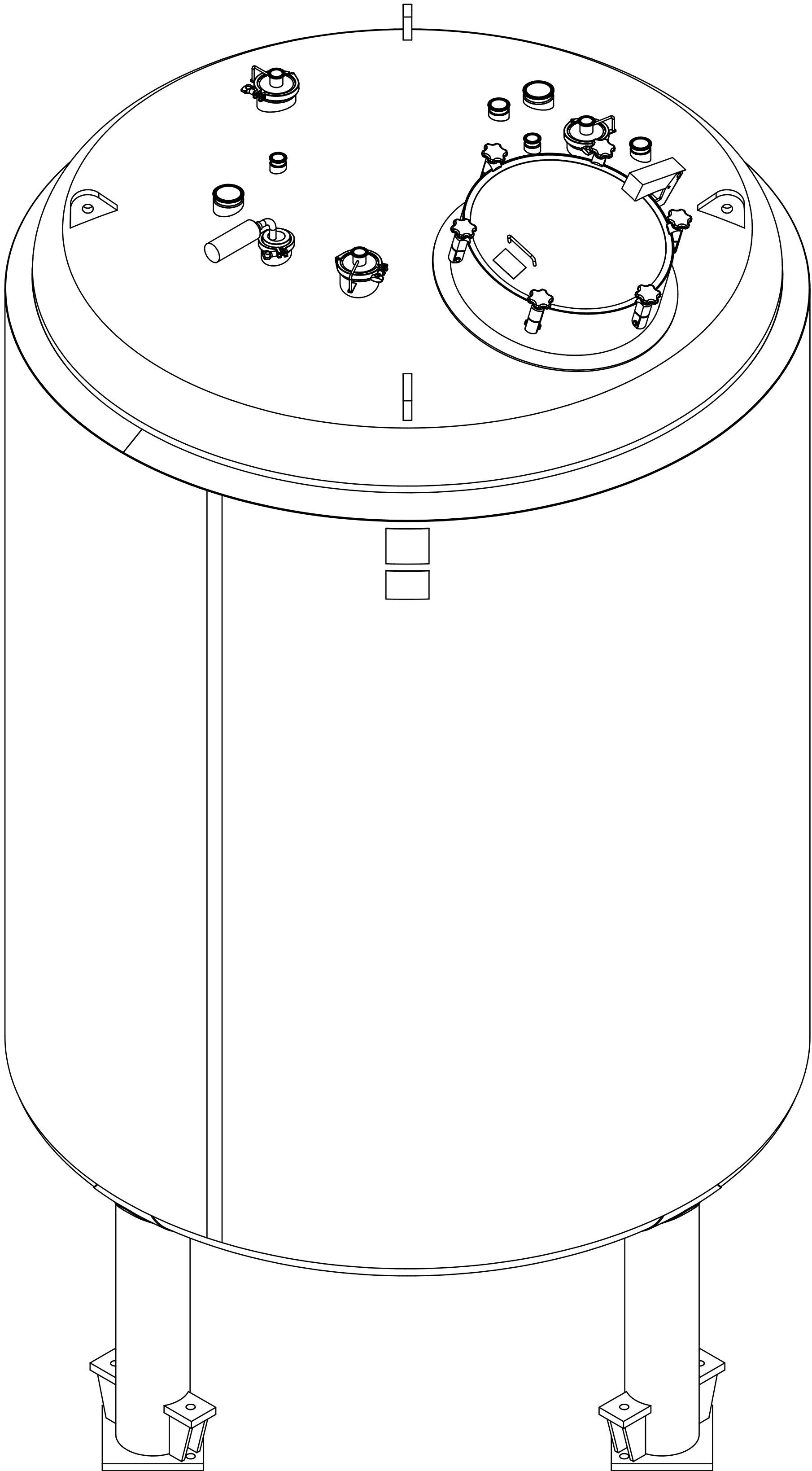


Nzl	SERVICE	ITEM	QTY	PART #	DESCRIPTION	MATERIAL
		1	1		TOP HEAD ASSEMBLY	
		1.1	1		TOP HEAD, 1/2" PL. ASME F&D X 86" I.D. X 86" D.R. X 6" K.R. X 1 1/2" S.F. X 16 9/16" F.I.D.	SA240-316/316L
A	MANWAY	1.2	1		MANWAY, 24" MC-56X W/ 6 LUGS, 6" COLLAR, SPRING ASSIST, & PLATINUM CURED SILICONE O-RING 45 PSI/FV @350° F	316/316L
		1.3	1		MANWAY REPAD, 1/4" THK. X 2" WIDE	304/304L
B	WFI RECIRC	1.4	1	SF-14-40040400	4" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
C	WFI RECIRC	1.5	1	SF-14-40040400	4" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
D	WFI RETURN	1.6	1	SF-14-40040400	4" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
E	RUPTURE DISC	1.7	1	SF-14-40015400	1 1/2" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
F	PRESSURE SENSOR	1.8	1	SF-14-40030400	3" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
I	SIGHT/LIGHT GLASS	1.9	1		3" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
J	VENT FILTER	1.10	1	SF-14-40030400	3" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
K	WFI SUPPLY	1.11	1	SF-14-40020400	2" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
L	SPARE	1.12	1		2" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
M	SPARE	1.13	1	SF-14-40015400	1 1/2" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
		1.14	4	LL-12-18000020	LIFTING LUG, 1" THK. X 3 5/8" X 6" W/ 1 1/4" DIA. HOLE (EX-LLG-005)	SA240-304/304L
		2	1		SHELL ASSEMBLY	
		2.1	1		SHELL, 3/8" PL. X 86" I.D. X 101" S.W.	SA240-316/316L
		3	1		BOTTOM HEAD ASSEMBLY	
		3.1	1		BOTTOM HEAD, 3/8" PL. ASME F&D X 86" I.D. X 86" D.R. X 6" K.R. X 1 1/2" S.F. X 16 9/16" F.I.D.	SA240-316/316L
H	OUTLET	3.2	1	SF-14-40040400	4" TRI-CLAMP FERRULE SFI 14MPW, 4" LG.	SA479-316/316L
G	PROCESS	3.3	1	SF-14-60061001	6" WELDING SPUD X 2.10" LG. W/ 1" MOUNTING FLANGE (1199-0061-0001) (TCI)	SA479-316/316L
		4	4		LEG, 8" SCH. 40S PIPE X 51" LG.	SA312-304/304L
		5	4	EX-LEG-001	BASE PLATE, 1" PL. X 11 3/4" X 11 3/4" W/ (2) 1 1/16" DIA. HOLES	SA240-304/304L
		6	4		ESCUTCHEON, 12 GA. X 8 5/8" I.D. X 14 5/8" O.D.	304/304L
		7	1		ALCOVE, 12 GA. X 9 1/2" I.D. X 60° I.A.	SA240-304/304L
		8	1		BREAST RING, 12 GA. X 87" I.D. X 93 1/8" I.D. X 120° I.A.	SA240-304/304L
		9	1		JACKET BAND, 1/8" X 1" FLAT BAR X 92 7/8" I.D. (ROLL E.W.)	SA479-304/304L
		10	1		JACKET, 10 GA. X 93 3/8" O.D. X 106 1/16" S.W.	SA240-304/304L
		11	1		OUTER BOTTOM, 10 GA. F&D X 92 7/8" I.D. X 92 7/8" D.R. X 2" K.R. X 1" S.F. X 14 5/8" F.I.D.	SA240-304/304L
		12	8		TOP PLATE, 1" THK. X 4" X 4 1/2" W/ (1) 1 1/16" HOLE	SA240-304/304L
		13	16		GUSSET, 1/2" THK. X 3 1/2" X 6"	SA240-304/304L
N	THERMOWELL	14	1		THERMOWELL, 1 1/2" X 9" STM X 4 1/2" INS X .260" BORE (LAG INC) 1 1/2"-260WELD-IN-U4 1/2-T3 W/ 1/2" NPT	316/316L
		15	3		CIP ASSEMBLY, REMOVABLE 1 1/2" TRI-CLAMP CONNECTION W/ 3" MOUNT & (1) WELDED 2 1/2" SPRAYBALL, TOP COVERAGE, 19 GPM @ 25 PSIG RANDOM DRILLED W/ALIGNMENT PIN & BRACKET (STAINLESS SOLUTIONS)	
		16	3	SF-92-FE040000	4" TRI-CLAMP FERRULE GASKET	USP CL VI SILICONE
		17	3	SF-11-20040001	4" 13MHMM FERRULE CLAMP	304
		18	1	PVG225U-LED	SIGHT GLASS/LED LIGHT, PUREVIEW TRI-CLAMP 3" (CANTY)	316/316L
		19	1	SF-92-FE030000	3" TRI-CLAMP FERRULE GASKET	USP CL VI SILICONE
		20	1	SF-11-20030001	3" 13MHMM FERRULE CLAMP	304
		21	1		ESCUTCHEON, 12 GA. X 1 9/16" ID X 5 1/2" OD	SA240-304/304L
		22	1		VORTEX BREAKER, 7 GA. FOR 4" OUTLET (IN-VTX-002)	SA240-316/316L
		23	1		ALCOVE, 12 GA. X 11" I.D. X 60° I.A.	SA240-304/304L
		24	1		VENT SCREEN, 1" SIZE " MICRO PLASTIC, INC." (62MP1000V)	NYLON
		25	1		DATA PLATE, STD. A.S.M.E. DATA PLATE	316/316L
		26	1		NAME PLATE, STD. SFI NAME PLATE	316/316L
		27	1		INSULATION, 1"THK. CHLORIDE FREE CERAMIC (272 SQ.FT.)	ASTM C795
		28	1		INSULATION, 2"THK. CHLORIDE FREE CERAMIC (272 SQ.FT.)	ASTM C795
		29	1 GAL.		PAINT, THURMALOX #70	



CERTIFIED CORRECT AND
RELEASED FOR FABRICATION

FABRICATION WILL BE IN ACCORDANCE WITH THIS DRAWING. ANY FURTHER
CHANGES WILL BE REVIEWED FOR COST AND DELIVERY ADJUSTMENTS.

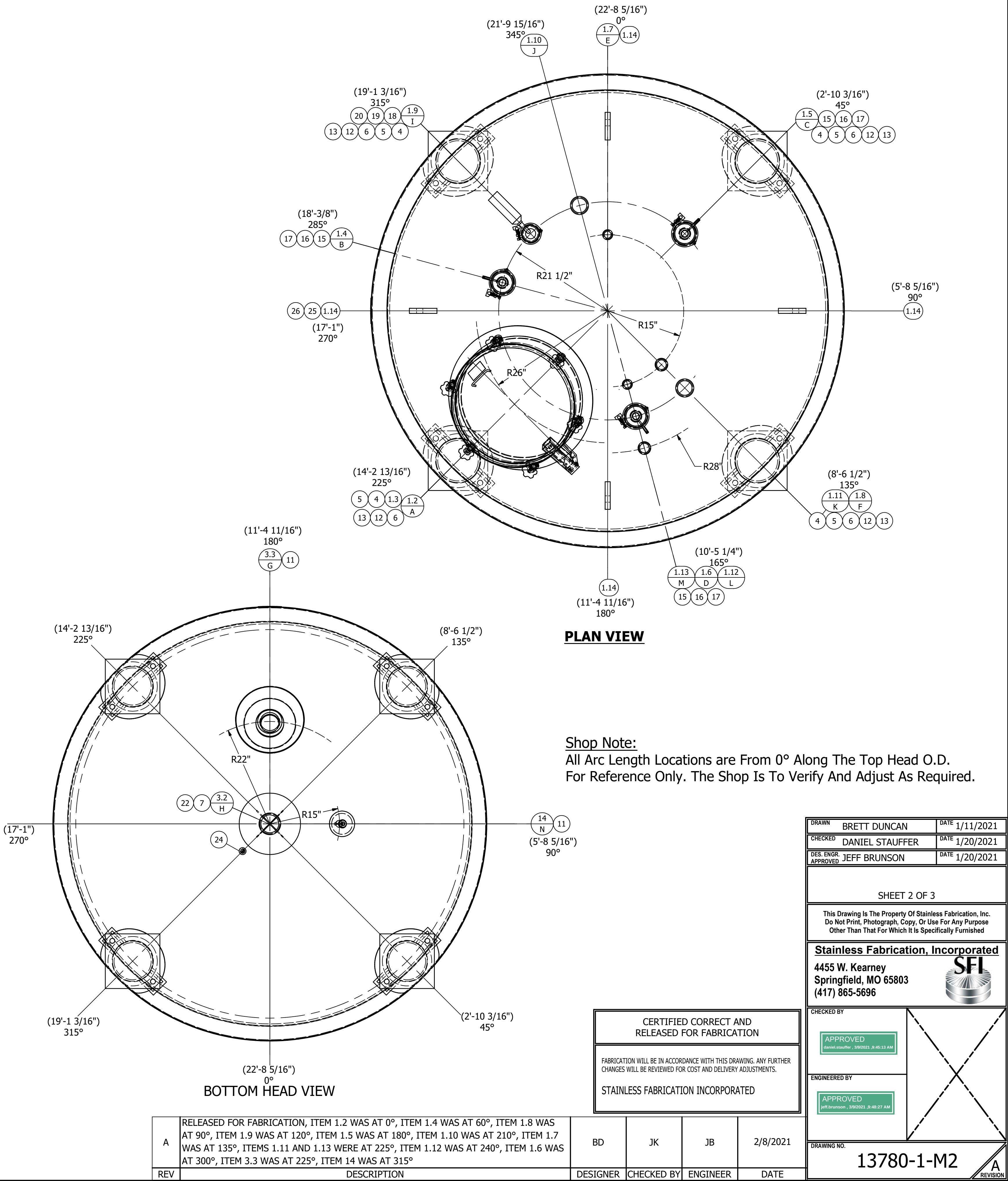
STAINLESS FABRICATION INCORPORATED

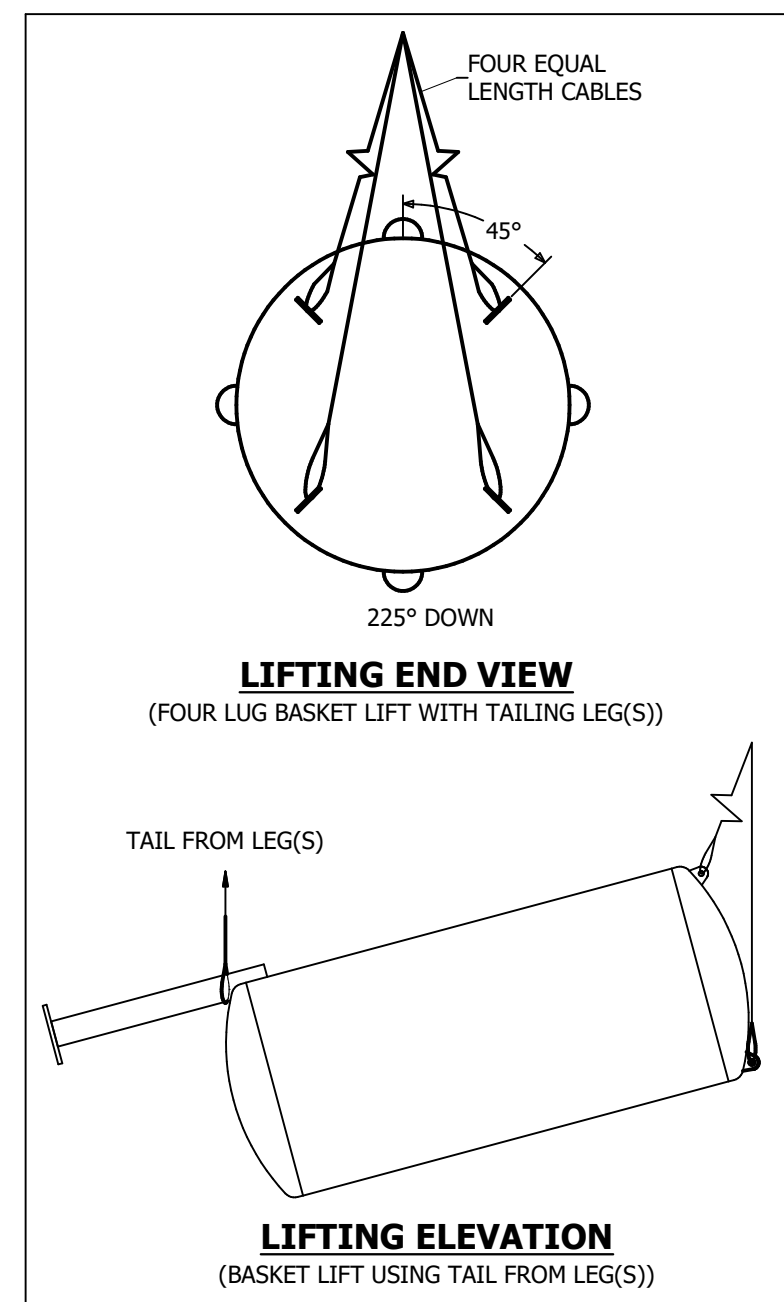
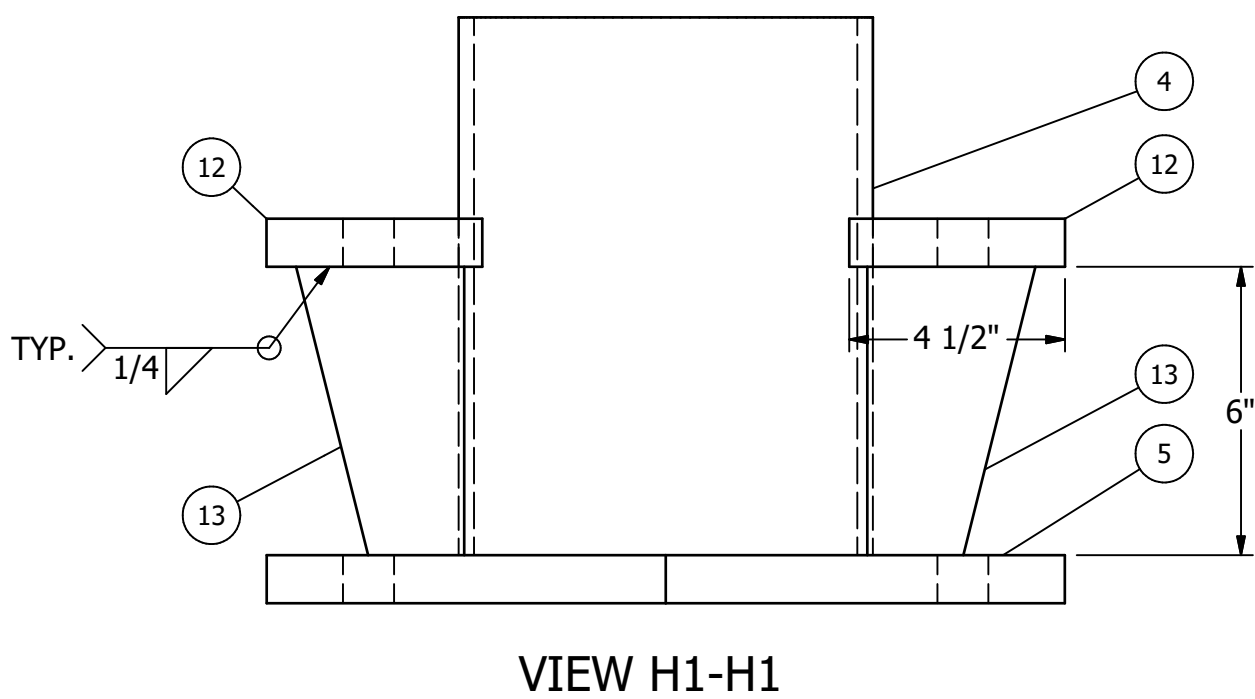
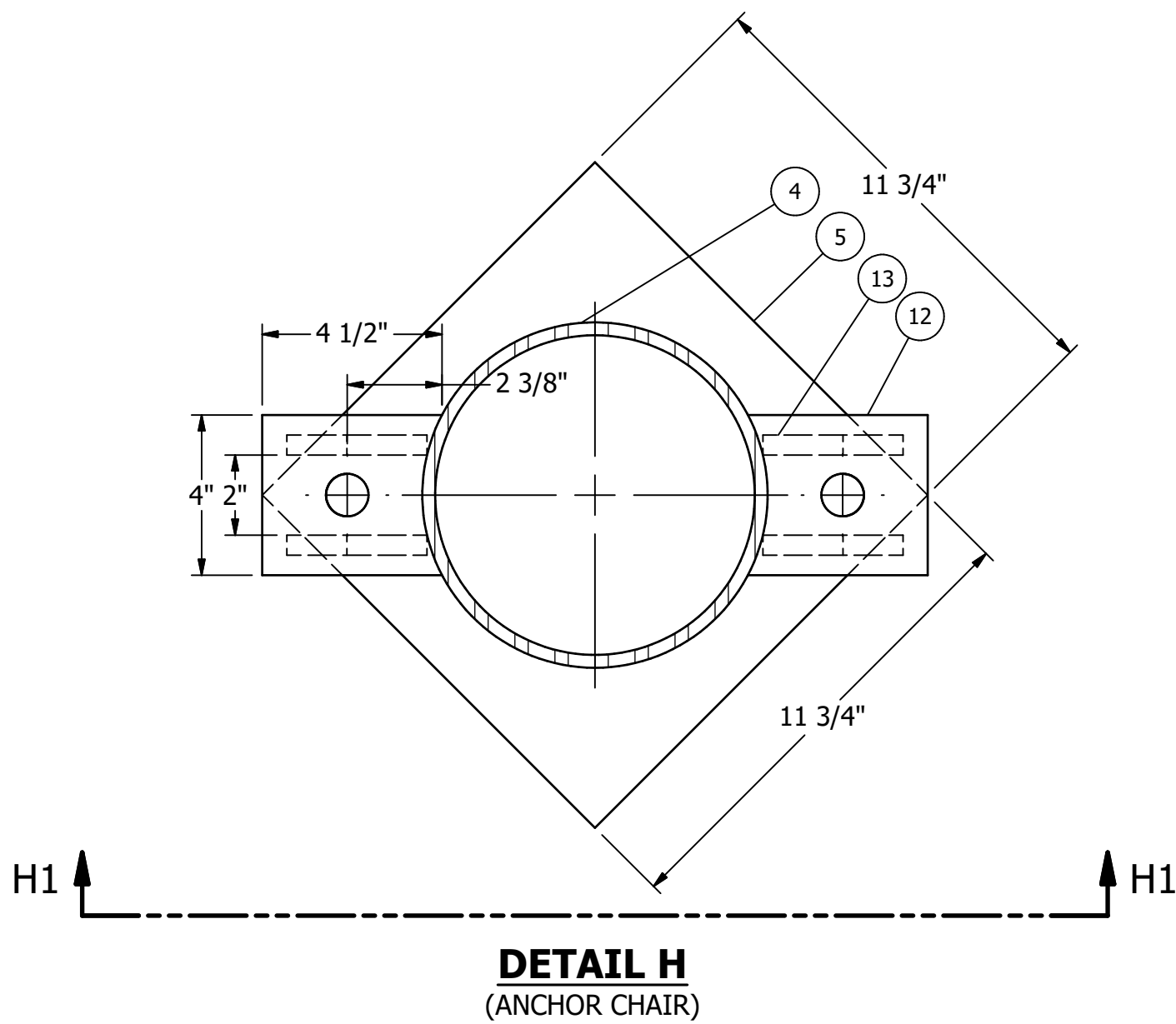
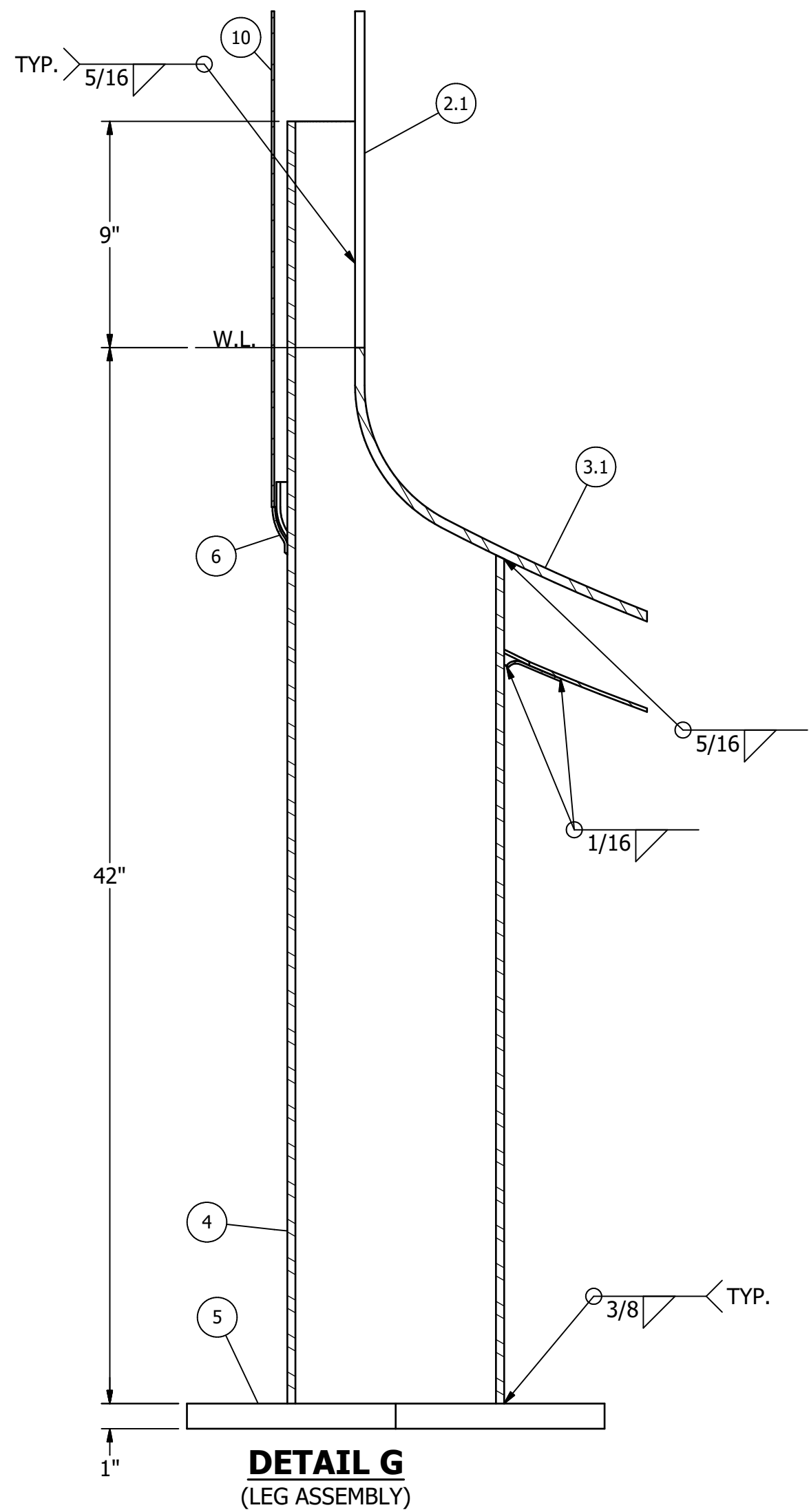
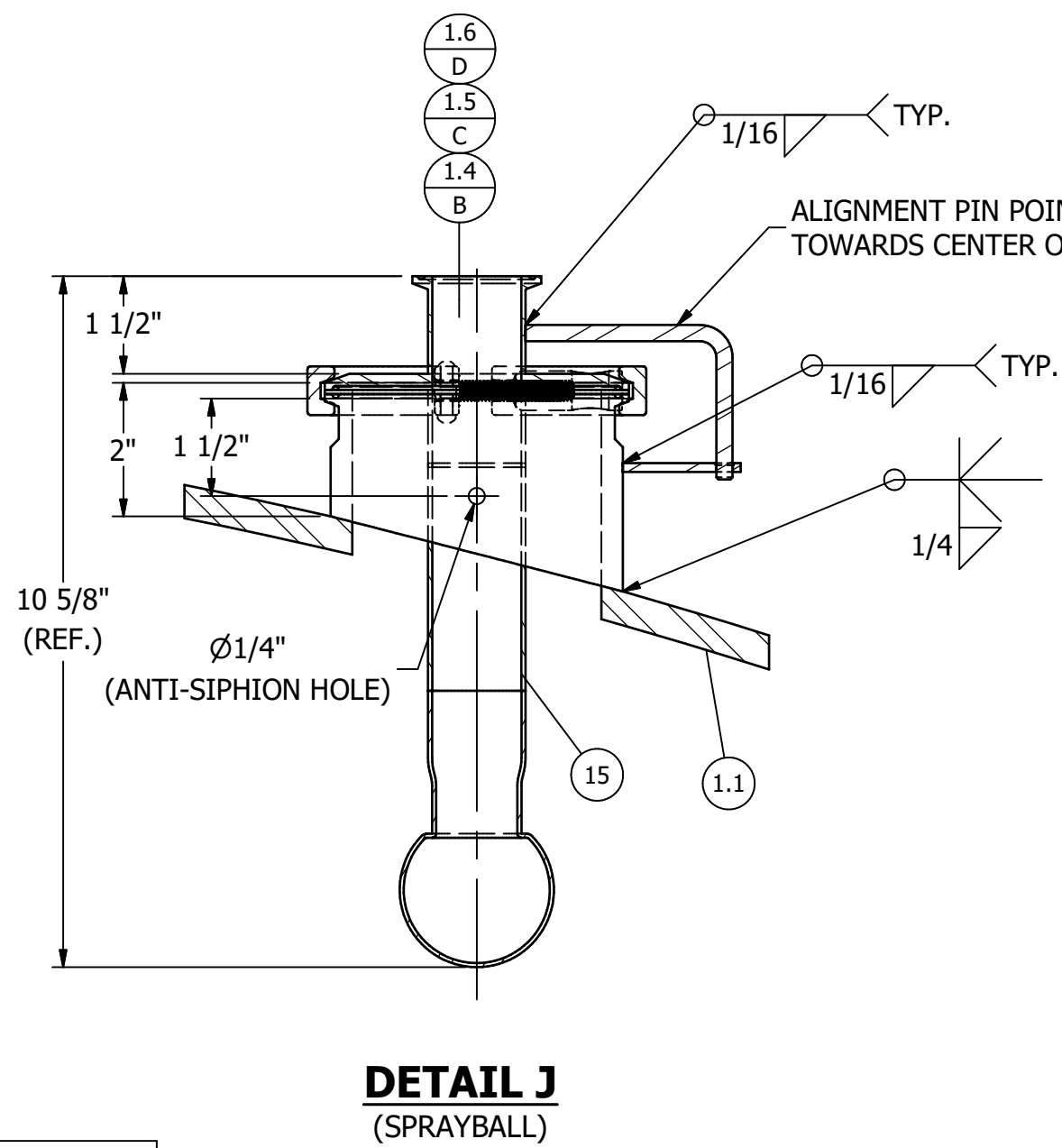
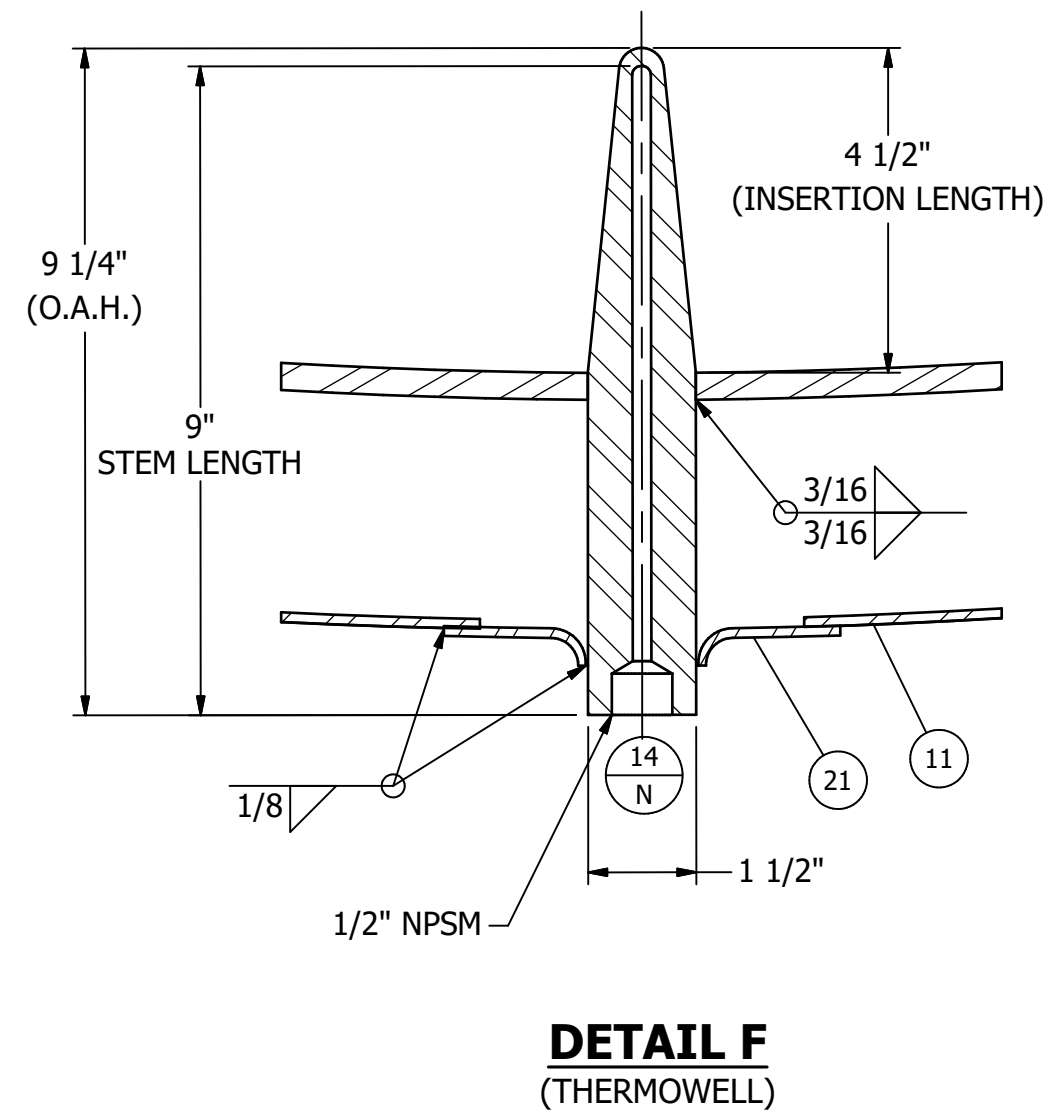
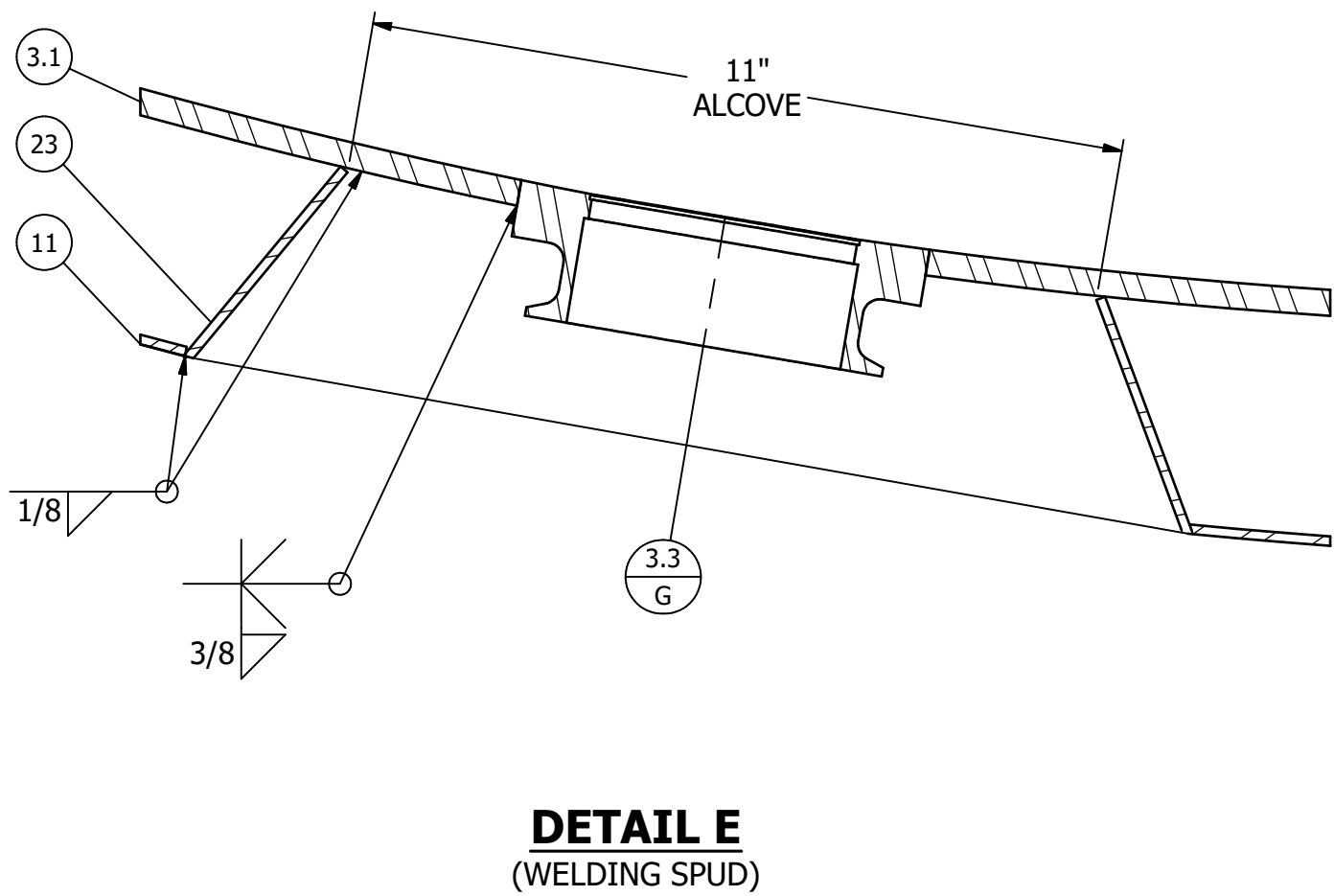
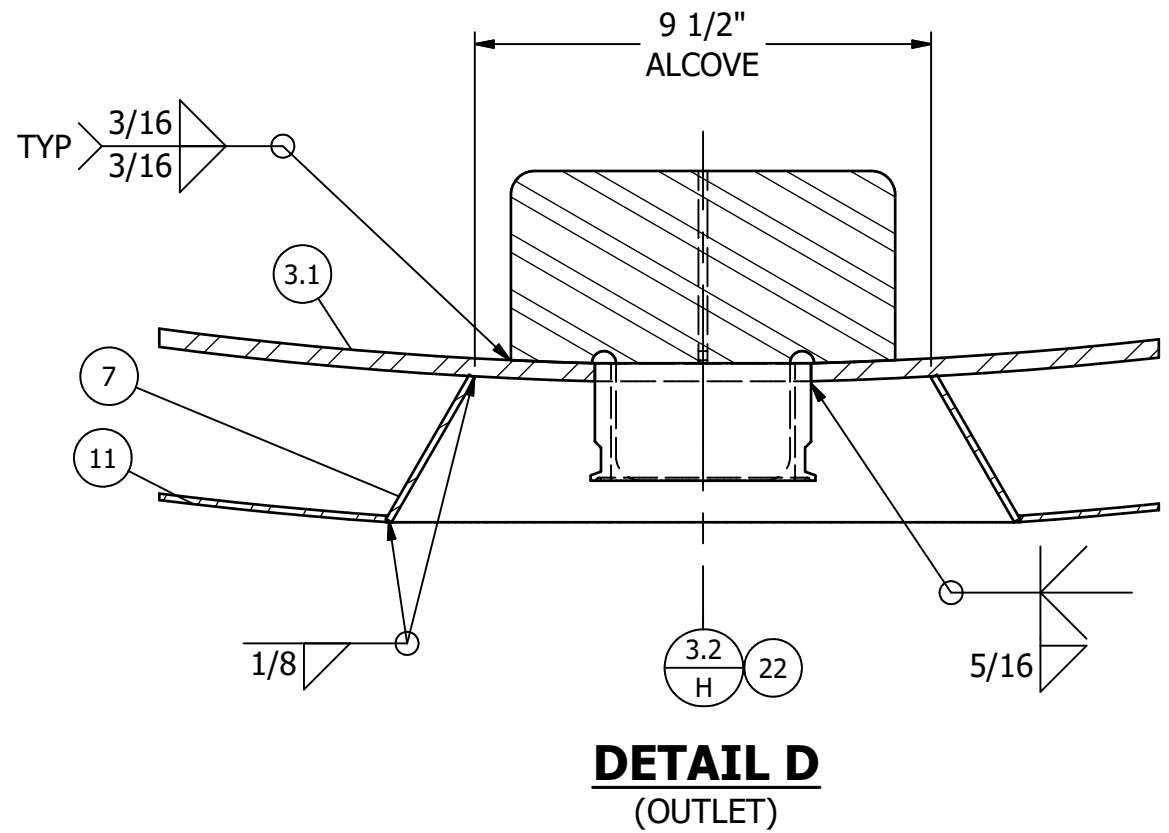
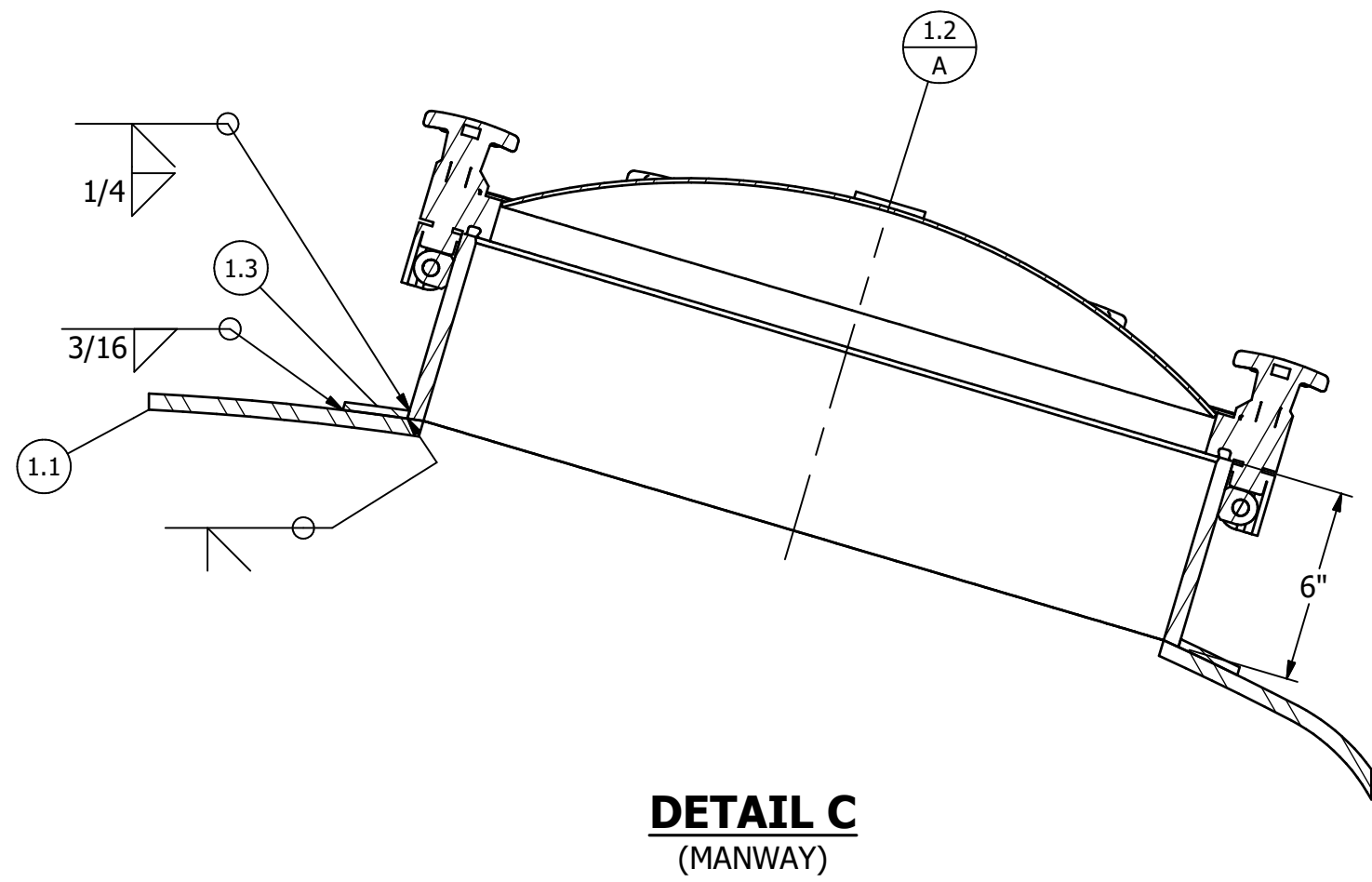
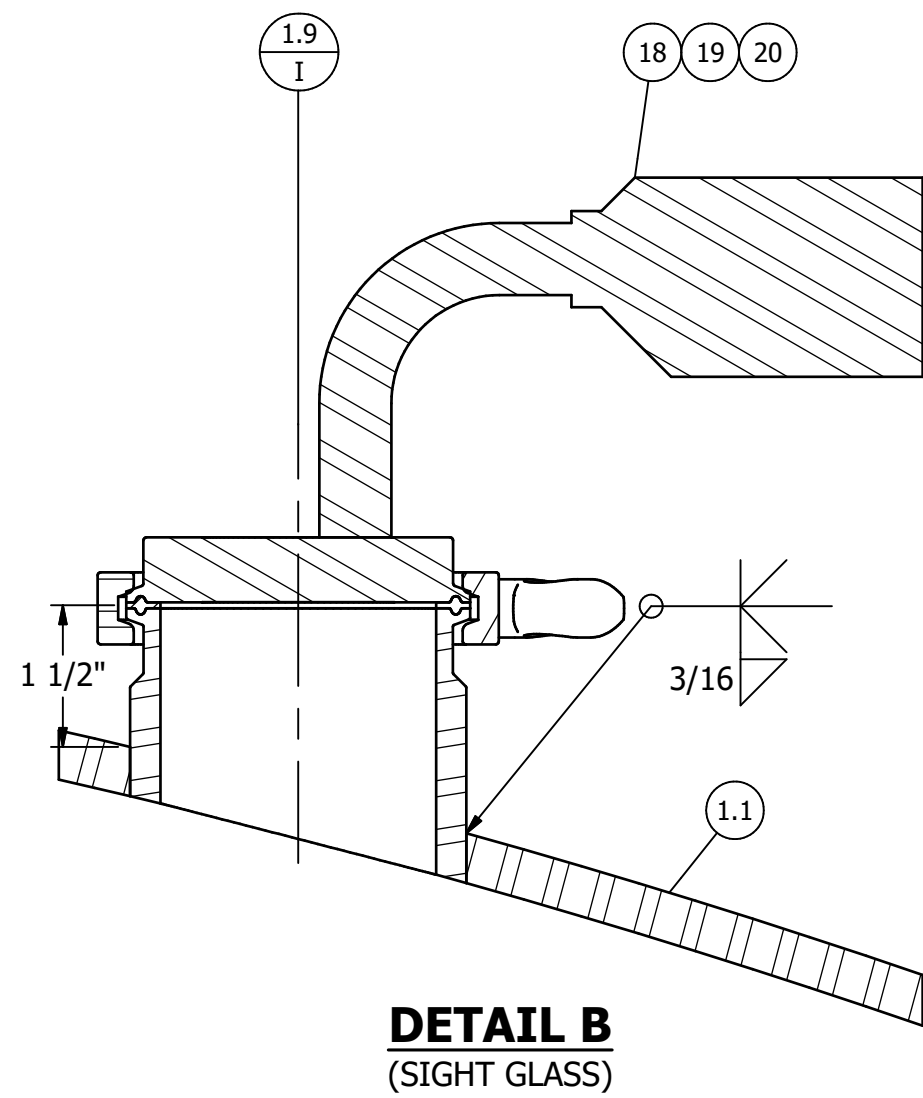
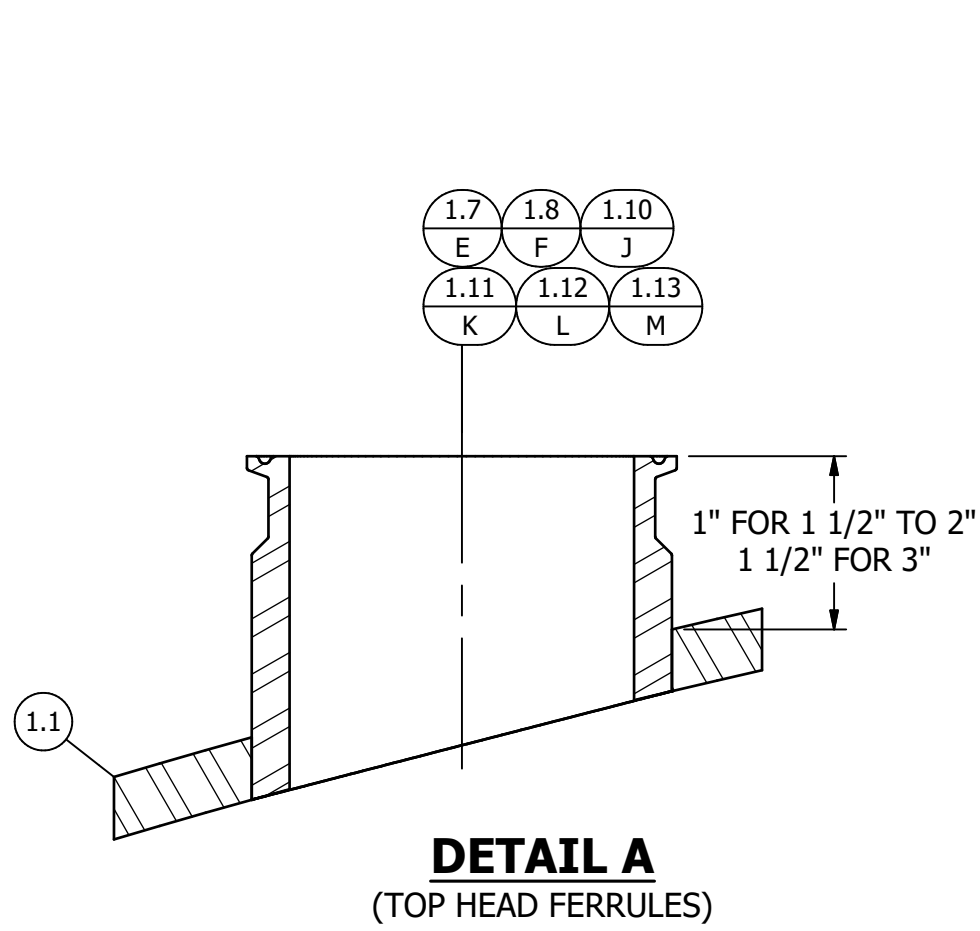
A	RELEASED FOR FABRICATION, CHANGED TAG NUMBER FROM WFI-TK100, ITEM 1.12 NOZZLE SEVERICE WAS WFI RETURN, ADDED PART NUMBER TO ITEM 1.6, ITEMS 1.4, 1.5, 1.6 SERVICE NAME WAS CIP	BD	JK	JB	2/8/2021
REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE

GENERAL NOTES & SPECIFICATIONS
1. Flange Bolt Holes To Straddle Major Vertical & Horizontal Vessel Center Lines Unless Indicated Otherwise. 2. The Corrosion Resistance Of The Equipment Is Not The Responsibility Of Stainless Fabrication, Inc. 3. Suitable Pressure and/or Vacuum Relief Valve(s) Must Be Installed By Customer For Vessel and/or Heat Transfer Surface Operation. 4. Design & Tolerances Are In Accordance With The Latest Edition Of The "ASME" Boiler & Pressure Vessel Code, Section VIII, Division 1, 2019 Edition 5. Production To Provide Protection For All Nozzles & Fittings Prior To Shipment. Vessel Must Be Adequately Vented. 6. Weld Seams In Vessel Head & Shell Shall Be Located Where Possible To Avoid Nozzles, Access Openings, & Reinf. Pads. 7. All Reinforcement Pads Must Be Provided With (1) 1/8" Dia. Weephole, Located At Lowest Point When Vessel Is In Its Normal Operating Position. If No Leg Weld Pad Is Required, Drill (1) 3/16" Dia. Weephole In Lowest Point Of Pipe Leg. 8. Welding Procedures Per Section IX, Asme Boiler & Pressure Vessel Code. Stainless To Stainless 0808PAW21-1, 0808PAW21-1a, 0808GT21-6, 0808GT16-2, 0808GM31-1, 0808GM33-1, 0808FC31-1 Carbon To Stainless (If Applicable) 0108GT16-2, 0108FC31-1 0108GM31-1 Carbon To Carbon (If Applicable) 0101GT16-2, 0101GM31-1, 0101FC31-1 9. Minimum Design Metal Temperature: -20° F 10. H.T.S. Nozzles Are Non-Load Bearing, If Applicable. 11. The Data Plate Shall Include The Customer Purchase Order Number and Tank Tag Number If Listed On This Drawing. 12. Unless Otherwise Specified, The Shop Is To Locate Lifting Lugs On Tank Such That Lugs Are At 3 O'clock And 9 O'clock As It Ships. Spreader Beams Required.
ADDITIONAL NOTES & SPECIFICATIONS
13. The Following Standard Procedures & Specifications Are To Be Used: QC-100 Hydrostatic Testing QC-102 Drain Testing Procedure QC-110 Pressure Integrity Test QC-200 Liquid Penetrant Examination (Color Contrast Method) (AS APPLICABLE) QC-201 Liquid Penetrant Examination (Flourescent Contrast) (AS APPLICABLE) QC-600 Cleaning Of Stainless Steel Parts And Equipment QC-601 Passivation Procedure For 300 Series Stainless Steel QC-602 Electropolish Procedure QC-603 Final Cleaning Procedure QC-700 Surface Roughness Specification QC-800 Standard Dimensional & Fabrication Tolerances Specification 14. All exterior sheet 2B. All exterior plate, pipe, and bar to be 30RA.

M.T.R.'S REQUIRED
(ALL PARTS & WELD WIRE)
(COC'S REQUIRED FOR GASKETS)

SPECIFICATIONS		VESSEL	HEAT TRANSFER SURFACE	DRAWN	BRETT DUNCAN		DATE	1/11/2021		
ASME Code, Sec. VIII, div. 1.		YES		CHECKER	DANIEL STAUFFER		DATE	1/20/2021		
Inspection & Stamped		YES		ENGINEER	JEFF BRUNSON		DATE	1/20/2021		
Max. Design Temp. °F		350		TITLE						
Max. Design Pressure, PSIG		45		10,000 LITER WFI STORAGE TANK						
Corrosion Allowance, Inch		0		TAG NO. V-223-1△						
Specific Gravity		1.0		SHEET 1 OF 3						
Hydrostatic Test, PSIG		60								
Vacuum Design, PSIG		15								
Radiograph		NONE								
HEAT TRANSFER SURFACE N/A				QUANTITY	(1) ONE		EST. EMPTY WEIGHT	6914 lbmass		
MATERIAL FINISH				CUSTOMER MECO						
INTERIOR 20Ra/EP		EXTERIOR SEE NOTE 14.		ADDRESS 68375 COMPASS WAY EAST MANDEVILLE, LA 70471						
WELD FINISH				SHIP TO LONZA-HAYWARD, CA						
INTERIOR 20Ra/EP		EXTERIOR BF								
PAINT (2) COATS OF THURMALOX 70 UNDER INSULATION				CUSTOMER ORDER NO: 137735						
CHECKED BY				This Drawing Is The Property Of Stainless Fabrication, Inc. Do Not Print, Photograph, Copy, Or Use For Any Purpose Other Than That For Which It Is Specifically Furnished						
ENGINEERED BY										
				DRAWING NO.						
				13780-1-M1						
				REV A						





A	RELEASED FOR FABRICATION, CORRECTED LIFTING SKETCH	BD	JK	JB	2/8/2021
REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE

CERTIFIED CORRECT AND
RELEASED FOR FABRICATION

FABRICATION WILL BE IN ACCORDANCE WITH THIS DRAWING. ANY FURTHER
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STAINLESS FABRICATION INCORPORATED

DRAWN	BRETT DUNCAN	DATE	1/11/2021
CHECKED	DANIEL STAUFFER	DATE	1/20/2021
DES. ENGR.	JEFF BRUNSON	DATE	1/20/2021
APPROVED			
SHEET 3 OF 3			
This Drawing Is The Property Of Stainless Fabrication, Inc. Do Not Print, Photograph, Copy, Or Use For Any Purpose Other Than That For Which It Is Specifically Furnished			
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APPROVED		REVISION	