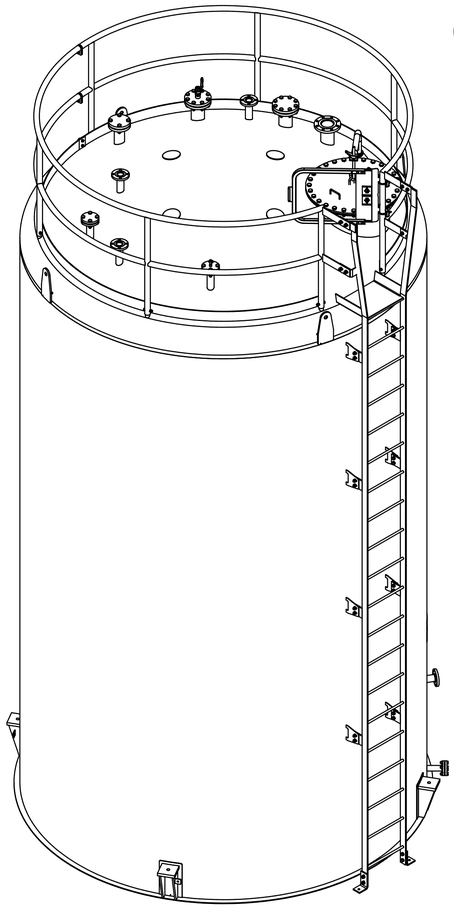
Nzl	SERVICE	ITEM	QTY	PART #	DESCRIPTION	MATERIAL
		1	1	THA	TOP HEAD ASSEMBLY	
		1.1	1	102035P000	TOP HEAD, 3/16" THK. ASME F&D X 138" I.D. X 138" D.R. X 9" K.R. X 1 1/2" S.F. X 25 5/16" F.I.D.	304/304L
J	MANWAY	1.2	1	102035004 102035P010	MANWAY, 24" API 650 DESIGN TOP HEAD MANWAY w/(1) 1/8" THK. GARLOCK 3000 w/ 16 1/2" LG. COLLAR (MW-API-024-1)(304/304L)	
	J	1.3	1	DV-12-42400002	DAVIT ARM ASSEMBLY FOR 24" TOP MOUNT MANWAY 24" O.D. COLLAR (EX-DVT-424)	
W	PSV	1.4	1	FA-12-0401021100	4" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 11" LG. EXT., 304/304L	
M	PRESSURE TRANS.	1.5	1	FA-12-0201031100	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 11" LG. EXT., 304/304L	
K	LEVEL SWITCH	1.6	1	FA-12-0201031100	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 11" LG. EXT., 304/304L	
N	LEVEL TRANS.	1.7	1	FA-12-0201031100	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 11" LG. EXT., 304/304L	
L	VENT	1.8	1	FA-12-0201031100	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 11" LG. EXT., 304/304L	
B	NITROGEN	1.9	1	FA-12-0301021100	3" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 11" LG. EXT., 304/304L	
A	INLET FILL	1.10	1	FA-12-0401021100	4" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 11" LG. EXT., 304/304L	
C	TRUCK VENT	1.11	1	FA-12-0201031100	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 11" LG. EXT., 304/304L	
D	TRUCK UNLOADING	1.12	1	FA-12-0401021100	4" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 11" LG. EXT., 304/304L	
		1.13	4	102035005	DOUBLER PAD, 1/4" THK. X 6" DIA. (FORM A/R)	304/304L
		2	1	SA	SHELL ASSEMBLY	
		2.1	1	2.1.1=102035000 2.1.2=102035001 2.1.3=102035002	SHELL COURSE, 3/16" THK. X 138" I.D. X 225" S.W.	304/304L
		3	1	BHA	BOTTOM HEAD ASSEMBLY	
		3.1	1	102035003	BOTTOM HEAD, 1/4" THK. FLAT X 142 3/8" DIA.	304/304L
		4	4	102035006	ANCHOR TOP PLATE, 1" THK. X 6" X 6" W/1" DIA. HOLE	304/304L
		5	8	102035007	GUSSET, 1/2" THK. X 5 1/2" X 12" (TRIM A/R)	304/304L
		6	4	102035008	WELD PAD, 3/16 PL. X 8" X 14" (ROLL TO 69 3/16" I.S.R.)	304/304L
		7	2	GL-12-20020050	GROUNDING LUG, 1/4" THK. X 2" X 2" W/ (1) 1/2" DIA. HOLE	304/304L
G	ETOH	8	1	FA-12-0401020700	4" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 7" LG. EXT., 304/304L	
I	EDUCTOR	9	1	FA-12-0601020700	6" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 40S X 7" LG. EXT., 304/304L	
O	TEMP. TRANS.	10	1	FA-12-0201030700	2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 7" LG. EXT., 304/304L	
P	DRAIN	11	1	FA-12-0151031519	1 1/2" CLASS 150 ASME B16.5, R.F.S.O. FLANGE w/ SCH. 80S X 15 3/16" LG. EXT., 304/304L	
	I	12	1	FL-12-00200010	2" CLASS 150 ASME B16.5 R.F. SLIP-ON FLANGE	304/304L
	I	13	1	BF-12-06000244	6" CLASS 150 ASME B16.5 R.F. BLIND FLANGE W/ (1) 2 7/16" DIA. HOLE	304/304L
	I	14	1	PN-12-02008006001	EDUCTOR PIPE, 2" SCH. 80S PIPE X 6" LG. (T.O.E.)	304/304L
	I	15	1	PI-12-020008011800	EDUCTOR PIPE, 2" SCH. 80S PIPE X 18" LG.	304/304L
	I	16	1	EL-12-02008010	2" SCH. 80S X 45° L.R.B.W. ELBOW	304/304L
	I	17	1		REPAD, 1/4" THK. X 6 11/16" I.D. X 3" WIDE	304/304L
	I	18	4	102035010	EDUCTOR GUSSET, 1/4" THK. X 3" X 4 13/16" LG. (TRIM A/R)	304/304L
	I	19	8	FS-61-07532510	BOLT, 3/4"-10UNC HEAVY HEX X 3 1/4" LG.	SA193-B8
	I	20	8	FS-64-07500030	NUT, 3/4"-10UNC HEAVY HEX	SA194-Gr. 8
		21	1	FL-122-00600070	6" CLASS 150 FLANGE GASKET	FLEXITALLIC CGI 304SS W/FLEXIBLE GRAPHITE FILLER
	I	22	1	102035P001	EDUCTOR, 2" "SCHUTTE & KOERTING" MIXING EDUCTOR SPARGER NOZZLE (MODEL268)	316
		23	1	102035012	HANDRAIL ASSY., 102035-1-L5	
		24	4	LL-12-10000018	LIFTING LUG ASS'Y, 1/2" THK. X 6" X 12 1/2" W/ 1/2" DIA. R.B. ROD X 6" LG. (10000 lb MAX.)(EX-LLG-018)	
		25	1	NP-14-00000007	DATA PLATE, STD. SFI DATA PLATE	316/316L
		26	1	NP-14-00000002	NAME PLATE, STD. SFI SHOP NAME PLATE	316/316L
		27	1	102035013	PNEUMATIC TESTING REINFORCEMENT ASSEMBLY, 102035-1-D4	
		28	1	102035050	LADDER ASSY, 102035-1-L6	

EDUCTOR ASSEMBLY SHIPS LOOSE (ITEMS 13-16 & 22)

SHIPS LOOSE

(1) ASSEMBLY USED ON ALL (3) TANKS

Nzl	SERVICE	ITEM	QTY	PART #	DESCRIPTION	MATERIAL
	P	29	1	FL-12-00150011	1 1/2" CLASS 150 ASME B16.5 R.F. BLIND FLANGE	304/304L
	K, N, L, C, O	30	5	FL-12-00200011	2" CLASS 150 ASME B16.5 R.F. BLIND FLANGE	304/304L
	B	31	1	FL-12-00300011	3" CLASS 150 ASME B16.5 R.F. BLIND FLANGE	304/304L
	D, G, W	32	3	FL-12-00400011	4" CLASS 150 ASME B16.5 R.F. BLIND FLANGE	304/304L
	I	33	1	FL-12-00600011	6" CLASS 150 ASME B16.5 R.F. BLIND FLANGE	304/304L
	P	34	1	FL-82-00150070	1 1/2" CLASS 150 FLANGE GASKET	BLACK EPDM
	K, N, L, C, O, M	35	6	FL-82-00200070	2" CLASS 150 FLANGE GASKET	BLACK EPDM
	B	36	1	FL-82-00300070	3" CLASS 150 FLANGE GASKET	BLACK EPDM
	A, D, G, W	37	4	FL-82-00400070	4" CLASS 150 FLANGE GASKET	BLACK EPDM
	I	38	1	FL-82-00600070	6" CLASS 150 FLANGE GASKET	BLACK EPDM
	P	39	4	FS-61-05022510	BOLT, 1/2"-13UNC HEAVY HEX X 2 1/4" LG.	SA193-B8
	P	40	4	FS-64-05000030	NUT, 1/2"-13UNC HEAVY HEX	SA194-Gr. 8
	K, N, L, C, O, M	41	24	FS-61-06327510	BOLT, 5/8"-11UNC HEAVY HEX X 2 3/4" LG.	SA193-B8
	A, B, D, G, W	42	36	FS-61-06330010	BOLT, 5/8"-11UNC HEAVY HEX X 3" LG.	SA193-B8
	K, N, L, C, O, M, A, B, D, G, W	43	60	FS-64-06300030	NUT, 5/8"-11UNC HEAVY HEX	SA194-Gr. 8
	M	44	1	BF-12-02000044	2" CLASS 150 ASME B16.5 R.F. BLIND FLANGE w/ (1) 7/16" DIA. HOLE	304/304L
DET. L	M	45	1	CP-12-00250010	1/4"-150# THREADED HALF COUPLING	304/304L
	M	46	1	GRG-25CF69	PIPE TEE, 150# STREET TEE 1/4" X 1/4" X 1/4" (GRAINGER ITEM# 25CF69 OR EQUIVALENT)	GALV. A197
	A	47	1	BF-12-04000113	4" CLASS 150 ASME B16.5 R.F. BLIND FLANGE W/ (1) 1 1/8" DIA. HOLE	304/304L
DET. M	A	48	1	CP-12-01000010	1"-150# THREADED HALF COUPLING	304/304L
	A	49	1	GRG-20K903	BALL VALVE, 1" MNPT X 1" FNPT (GRAINGER PART#20K903 OR EQUIVALENT)	BRASS



ITEM 29-49 SHIPPING BLINDS, GASKETS AND BOLTING. LEAVE A 2" BLIND OFF THE TOP HEAD.
TANK CAN'T BE COMPLETELY CAPPED OFF FOR SHIPMENT.

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. Production To Provide Protection For All Nozzles & Fittings Prior To Shipment. Vessel Must Be Adequately Vented.
5. Weld Seams In Vessel Head & Shell Shall Be Located Where Possible To Avoid Nozzles, Access Openings, & Reinf. Pads.
6. All Reinforcement Pads Must Be Provided With (1) 1/4" 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.
7. Dye Penetrant Test All Product Containment Welds.
8. Tolerances Per SFI Standard Dimensional And Fabrication Tolerance Specification QC-800.
9. The Data Plate Shall Include The Customer Purchase Order Number and Tank Tag Number If Listed On This Drawing.
10. 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.
11. API-650 Designed And Tested, No Marking
12. QC-112 Pneumatic Testing Procedure @2 PSIG
13. QC-601 Passivation Procedure For 300 Series Stainless Steel **(Citric Acid)**

M.T.R.'S REQUIRED

(APPLIES TO ALL WETTED PARTS)
(COC'S REQUIRED FOR GASKETS)

SERIAL NUMBER TABLE

SERIAL #	TANK TAG NO.
102035TK01	V-1021
102035TK02	V-1031
102035TK03	V-1041

SPECIFICATIONS	VESSEL	HEAT TRANSFER SURFACE
ASME Code, Sec. VIII, div. 1	NOTE 11	
Inspection & Stamped	NOTE 11	
Max. Design Temp. °F	320	
Max. Design Pressure, PSIG	2.2	
Corrosion Allowance, Inch	0.0	
Specific Gravity	1.0	
Hydrostatic Test, PSIG	NOTE 7 & 12	
Vacuum Design, PSIG	0.08	
Radiograph	NONE	

HEAT TRANSFER SURFACE: N/A

MATERIAL FINISH

INTERIOR: 2B/MILL | EXTERIOR: 2B/MILL

WELD FINISH

INTERIOR: RG | EXTERIOR: BF

PAINT: NONE

CHECKED BY

ENGINEERED BY: Jeffrey W Brunson — Digitally signed by Jeffrey W Brunson. DN: C=US, O=Engineering, OU=Stainless Fabrication, CN=Jeffrey W Brunson, E=jeff.brunson@stainlessfabrication.com. Reason: I am the author of this document. Location: Date: 2024.11.19 12:47:07 -06'00'. Foxit PDF Editor Version: 13.0.1

GEORGIA REGISTERED No. PE044918 PROFESSIONAL ENGINEER JEFFREY WILLIAM BRUNSON

RESERVED

EPICOR/SERIAL NO.: 102035

CERTIFIED AS-BUILT
Drawing Set Reviewed, Checked And Approved By:

APPROVED
jeff.brunson , 11/19/2024, 1:52:16 PM

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	ADDED ITEMS 29-49.	CD	JB	JB	10/18/2024
D	REVISED FOR CONSISTENCY	J³	DS	JB	10/2/2023
C	NOZZLE J GASKET WAS VITON & ON-HOLD, NOZZLE L HAD A 9" EXT., ITEM 21 WAS FLEXITALLIC LSI GASKET & ON-HOLD, ADDED ITEM 28, EST. EMPTY WEIGHT WAS 8,363 lb.	CD	DS	JB	5/8/2023
B	NOZZLE J GASKET & ITEM 21 PUT ON-HOLD, EST. EMPTY WEIGHT WAS 8361 lb, ADDED OPERATING VOLUME IN TITLE BLOCK, RELEASED FOR FABRICATION.	CD	DS	JB	4/28/2023
A	ADDED TANK TAG NO.'S TO SERIAL NUMBER TABLE.	CD	DS	JB	3/29/2023

DRAWN: CHRIS DAVIS — DATE: 2/9/2023
CHECKER: DANIEL STAUFFER — DATE: 2/16/2023
ENGINEER: JEFF BRUNSON — DATE: 2/16/2023

TITLE: ETHANOL GRADE DAY TANK
13,500 GALLONS

SHEET 1 OF 4

QUANTITY: (3) THREE | EST. EMPTY WEIGHT: 8820 lbmass

CUSTOMER: TURNER CONSTRUCTION COMPANY

ADDRESS: 3495 PIEDMONT RD NE, BUILDING 11, SUITE 700 ATLANTA, GA 30305

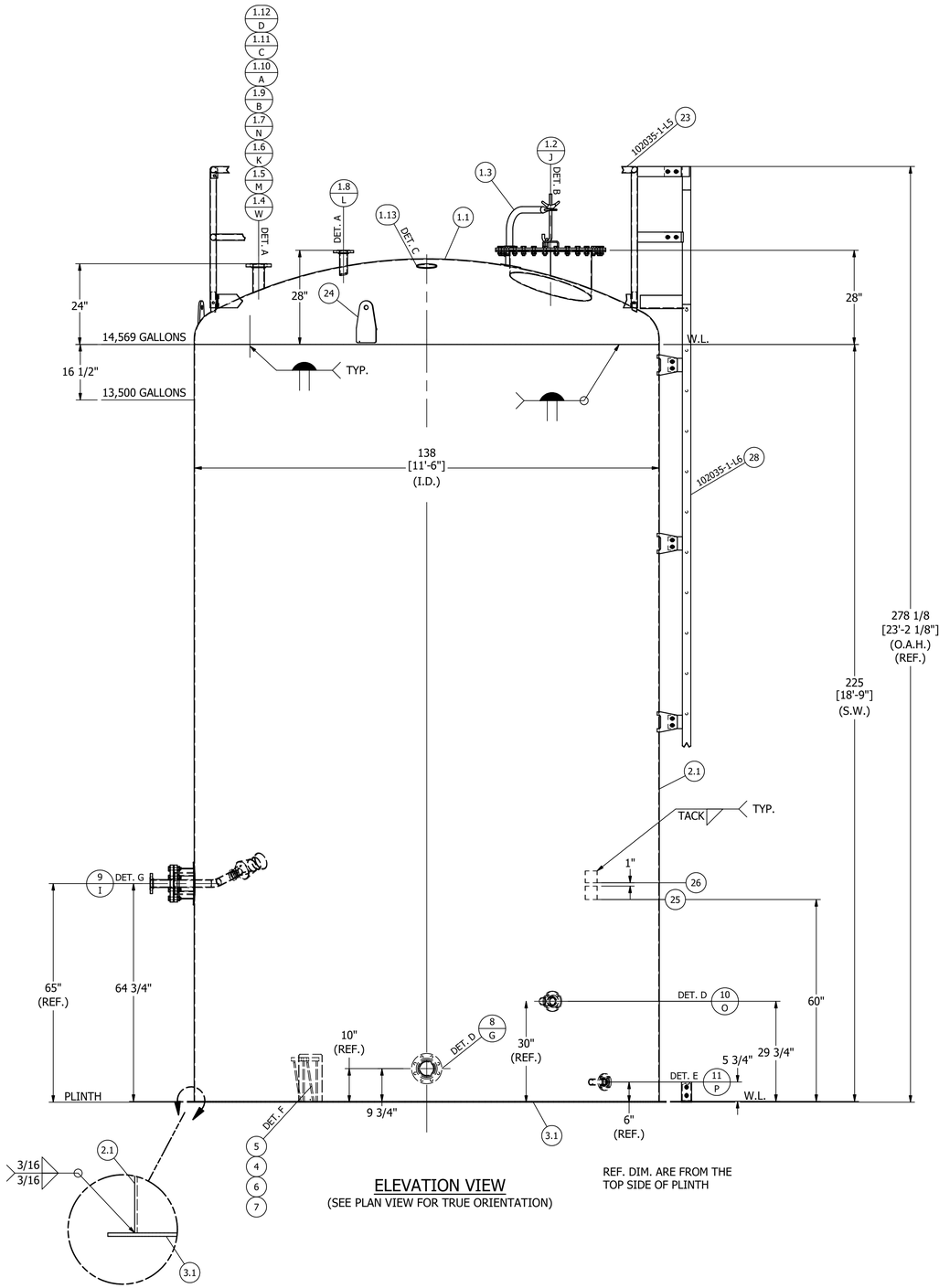
SHIP TO: REGISTER, GA 30452

CUSTOMER ORDER NO.: 4700179835

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Stainless Fabrication, Incorporated
4455 W. Kearney
Springfield, MO 65803
(417) 865-5696

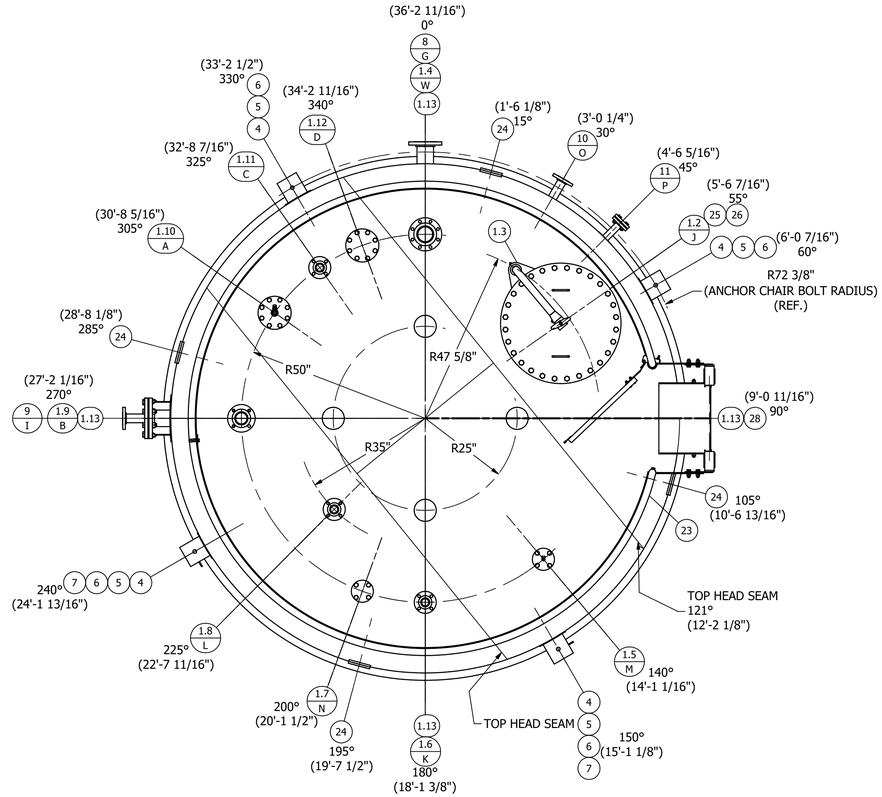
DRAWING NO.: 102035-1-M1 — REVISION: F



ELEVATION VIEW
(SEE PLAN VIEW FOR TRUE ORIENTATION)

REF. DIM. ARE FROM THE TOP SIDE OF PLINTH

Shop Note:
All Arc Length Locations are From 0° Along The Top Head O.D.
For Reference Only. The Shop Is To Verify And Adjust As Required.



PLAN VIEW

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	REVISED FOR CONSISTENCY	CD	JB	JB	10/18/2024
D	IN PLAN VIEW, ITEMS 24 WAS @ 115° & 295°	J³	DS	JB	10/2/2023
C	IN ELEVATION VIEW NOZZLE I, G, O & P MOVED 1/4" DOWN, 28" & 24" DIMS. WERE 23", ADDED ITEM 28 IN PLAN & ELEVATION VIEWS.	CD	DS	JB	5/8/2023
B	IN ELEVATION VIEW NOZZLE P ELEVATION WAS @ W.L., ADDED REF. DIMS., RELEASED FOR FABRICATION.	CD	DS	JB	4/28/2023
A	REVISED FOR CONSISTENCY.	CD	DS	JB	3/29/2023

DRAWN	CHRIS DAVIS	DATE	2/9/2023
CHECKED	DANIEL STAUFFER	DATE	2/16/2023
DES. ENGR. APPROVED	JEFF BRUNSON	DATE	2/16/2023

SHEET 2 OF 4

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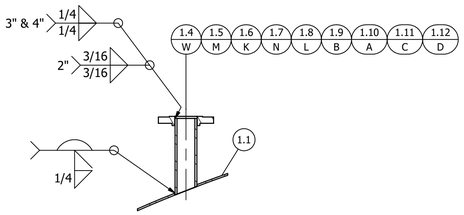
Stainless Fabrication, Incorporated
4455 W. Kearney
Springfield, MO 65803
(417) 865-5696

CHECKED BY

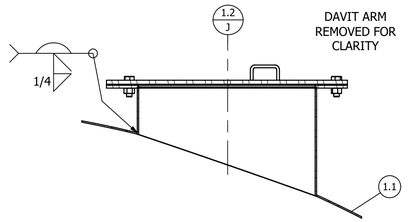
ENGINEERED BY
APPROVED
jeff.brunson , 11/19/2024, 1:52:03 PM

EPICOR/SERIAL NO.
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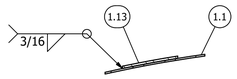
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F
REVISION



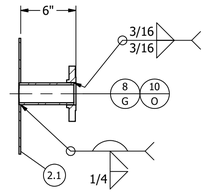
DETAIL A
(TOP HEAD FLANGES)



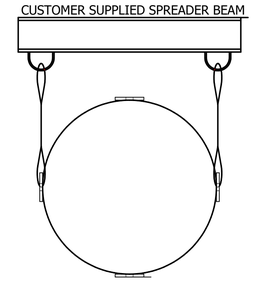
DETAIL B
(MANWAY)



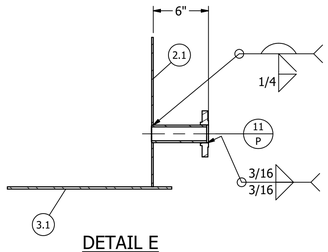
DETAIL C
(DOUBLER PADS)



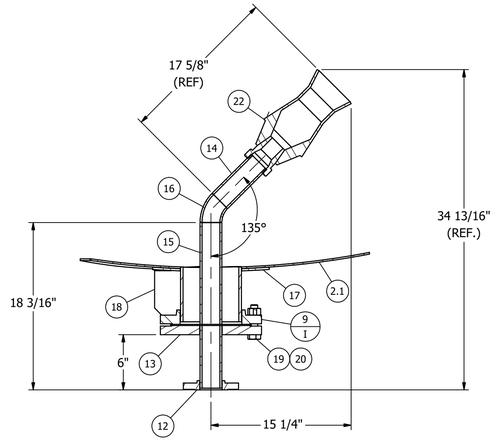
DETAIL D
(SIDEWALL FLANGES)



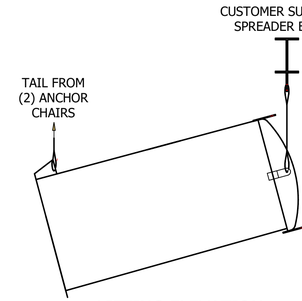
LIFTING END VIEW
(SPREADER BEAM USING TWO LUGS)



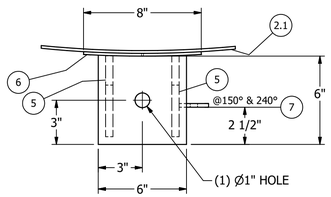
DETAIL E
(DRAIN)



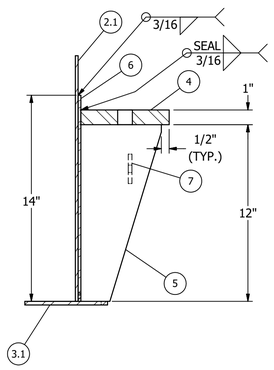
SECTION G2-G2
(ROTATED 30° CW)



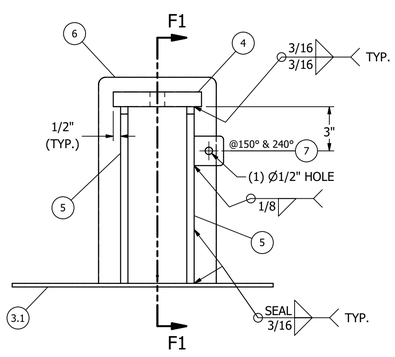
LIFTING ELEVATION
(SPREADER BEAM WITH ANCHOR CHAIR)



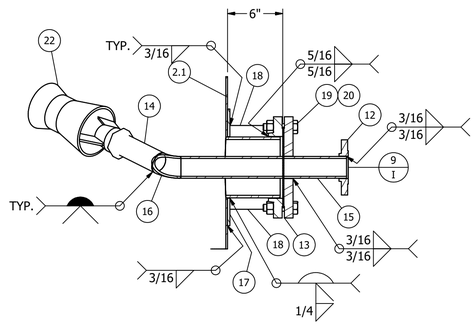
TOP VIEW



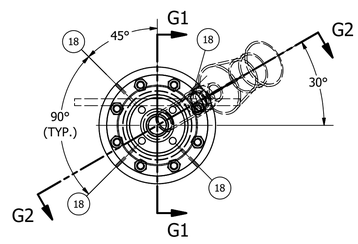
SECTION F1-F1



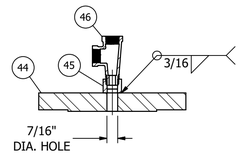
DETAIL F
(ANCHOR CHAIR)



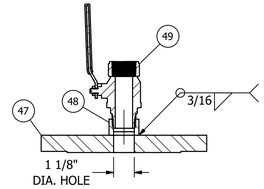
SECTION G1-G1



DETAIL G
(EDUCTOR)



DETAIL L
(TEE BLIND FLANGE)



DETAIL M
(BRASS BALL VALVE BLIND FLANGE)

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	ADDED DET. L & M	CD	JB	JB	10/18/2024
D	SHIP DOWN WAS 105°	J³	DS	JB	10/2/2023
C	REVISED FOR CONSISTENCY.	CD	DS	JB	5/8/2023
B	REVISED DET. E FOR NOZZLE P ELEVATION CHANGE, RELEASED FOR FABRICATION.	CD	DS	JB	4/28/2023
A	REVISED FOR CONSISTENCY.	CD	DS	JB	3/29/2023

DRAWN	CHRIS DAVIS	DATE 2/9/2023
CHECKED	DANIEL STAUFFER	DATE 2/16/2023
DES. ENGR. APPROVED	JEFF BRUNSON	DATE 2/16/2023

SHEET 3 OF 4

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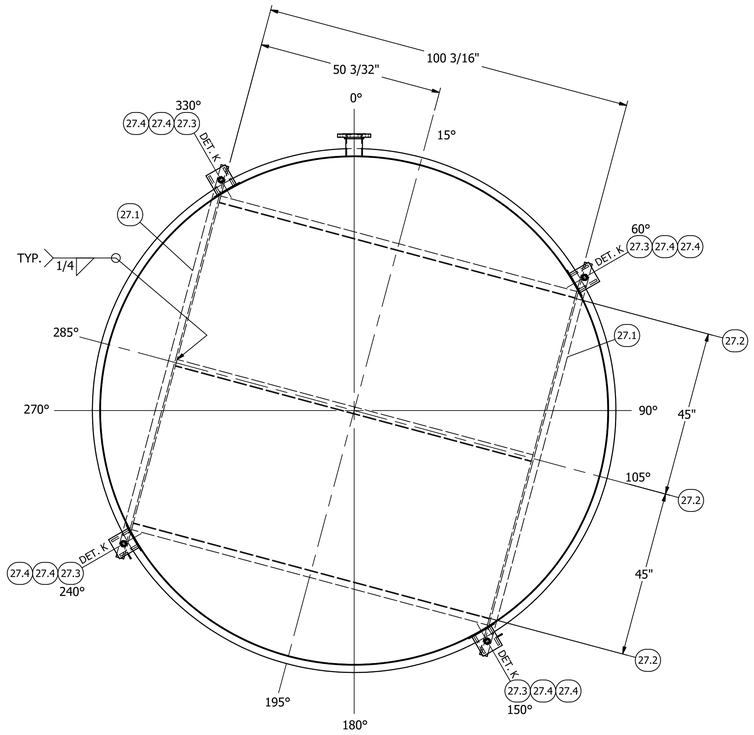
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102035

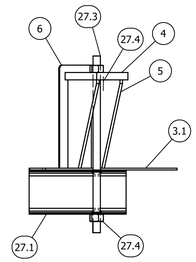
DRAWING NO.
102035-1-D3

REVISION
F

SHOP NOTE: DO NOT WELD TESTING SUPPORTS TO VESSEL
DO NOT SHIP SUPPORTS WITH TANK.



DETAIL J
(PNEUMATIC TESTING BRACING)

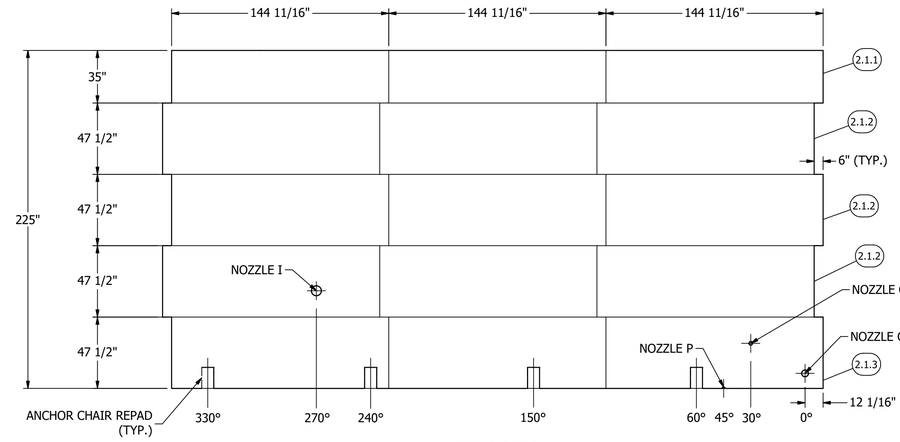


DETAIL K
(PNEUMATIC BRACING BOLTING)

ITEM	QTY	PART #	DESCRIPTION	MATERIAL
27	1	102035013	PNEUMATIC TESTING REINFORCEMENT ASSEMBLY, 102035-1-D4	
27.1	2	102035014	LONG BRACE, C6 X 13 X 110 3/8" LG. W/ (4) 1 1/4" DIA. HOLES	A572-Gr. 50
27.2	3	102035015	SHORT BRACE, C6 X 8.2 X 100 3/16" LG.	A572-Gr. 50
27.3	4	FS-66-10000200	THREADED ROD, 1"-8UNC X 24" LG.	SA193-B7
27.4	8	FS-67-10000030	NUT, 1"-8UNC HEAVY HEX	SA194-Gr. 2H

(1) ASSEMBLY FOR ALL (3) TANKS
ASSEMBLY WEIGHT: 445 lb

SHOP NOTE:
MODIFY BRACING USED ON 14493-1 IF AVAILABLE



WELD MAP

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	REVISED FOR CONSISTENCY	CD	JB	JB	10/18/2024
D	REVISED FOR CONSISTENCY	J³	DS	JB	10/2/2023
C	REVISED FOR CONSISTENCY.	CD	DS	JB	5/8/2023
B	ITEM 27.3 WAS 22" LG., RELEASED FOR FABRICATION.	CD	DS	JB	4/28/2023
A	REVISED FOR CONSISTENCY.	CD	DS	JB	3/29/2023

DRAWN	CHRIS DAVIS	DATE 2/9/2023
CHECKED	DANIEL STAUFFER	DATE 2/16/2023
DES. ENGR. APPROVED	JEFF BRUNSON	DATE 2/16/2023

SHEET 4 OF 4

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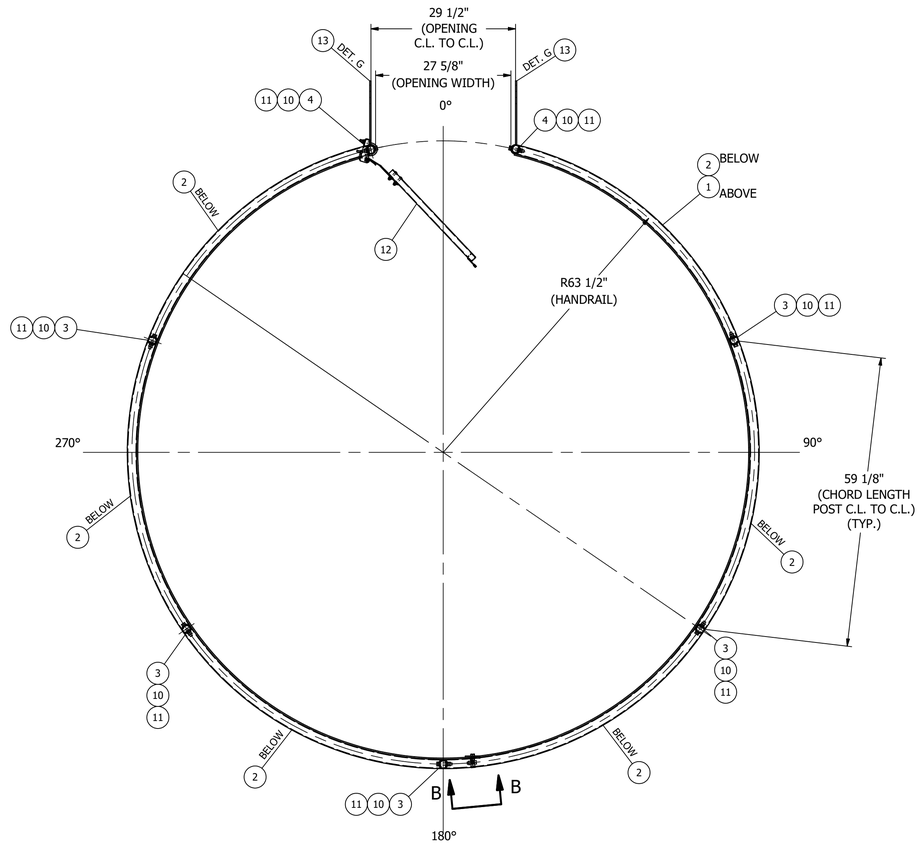
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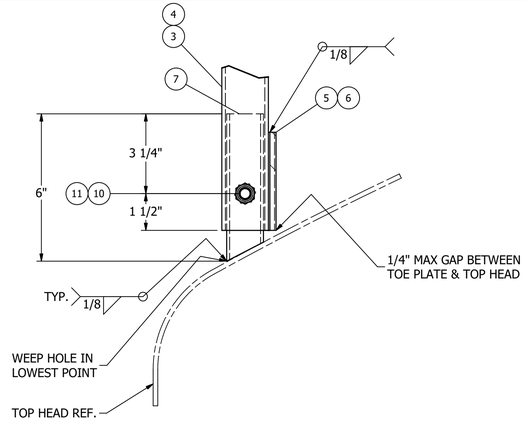
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DRAWING NO.
102035-1-D4
F
REVISION

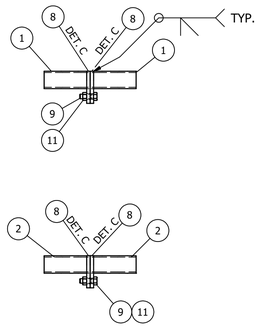
SEE 102035-1-D2 FOR TRUE ORIENTATION

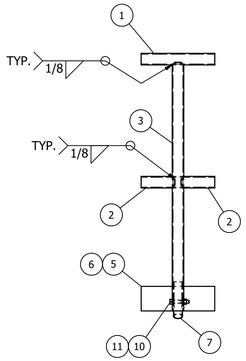


PLAN VIEW
(HANDRAIL)

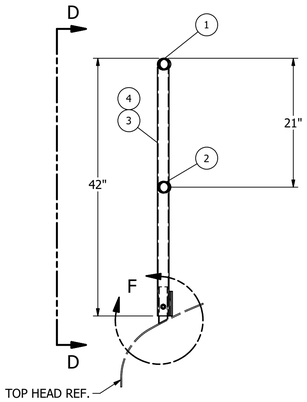


VIEW F

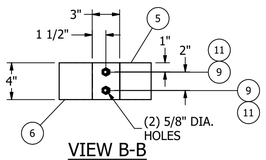




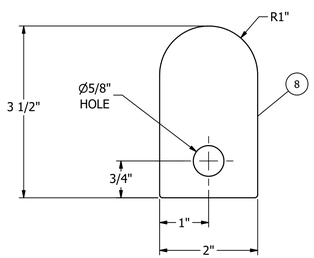
VIEW D-D



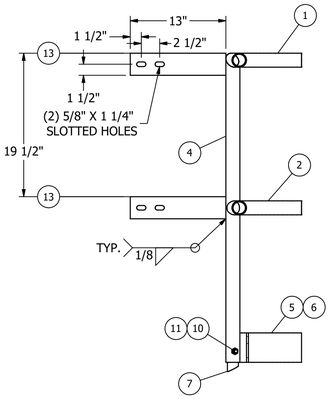
ELEVATION



VIEW B-B



DETAIL C
(HANDRAIL SPLICE CLIP)



DETAIL G
(LADDER CLIP)

ITEM	QTY	PART #	DESCRIPTION	MATERIAL
1	1		TOP RAIL, 1 1/2" SCH. 40S PIPE X 371 1/8" LG. (ROLL TO 63 1/2" C.L.R.) (MITERED ENDS)	A500-Gr. B
2	6		MID RAIL, 1 1/2" SCH. 40S PIPE X 60 9/16" LG. (ROLL TO 63 1/2" C.L.R.) (COPED ENDS)	A500-Gr. B
3	5		POST, 1 1/2" SCH. 40S PIPE X 40 9/16" LG. (COPE ONE END)	A500-Gr. B
4	2		END POST, 1 1/2" SCH. 40S PIPE X 42" LG. (MITER ONE END)	A500-Gr. B
5	1		TOE PLATE, 1/4" X 4" F.B. X 177 5/16" LG. (ROLL TO 62 5/16" I.S.R.)	A500-Gr. B
6	1		TOE PLATE, 1/4" X 4" F.B. X 189 3/8" LG. (ROLL TO 62 5/16" I.S.R.)	A500-Gr. B
7	7	102035011	POST STUB, 1 1/2" X 0.120 WALL TUBE X 6" LG.	SA249-304/304L
8	4		HANDRAIL SPLICE CLIP, 3/8" X 2" X 3 1/2" LG. W/ 5/8" DIA. HOLE	A36
9	4	FS-69-05015020	BOLT, 1/2"-13UNC HEX X 1 1/2" LG.	ZINC PL. A307
10	7	FS-69-05027520	BOLT, 1/2"-13UNC HEX X 2 3/4" LG.	ZINC PL. A307
11	11	FS-69-05000040	NUT, 1/2"-13UNC HEX	ZINC PL. Gr. 2
12	1		SAFETY GATE KIT, SELF CLOSING FOR 20"-30" OPENING WIDTH, LSG-2030-GAL, W/ MOUNTING HARDWARE (PS DOORS)	
13	4		LADDER CLIP, 1/4" THK. X 3" X 13" W/ (2) 5/8" X 1 1/4" SLOTTED HOLES	A36

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	REVISED FOR CONSISTENCY	CD	SW	JB	10/18/2024
D	REVISED FOR CONSISTENCY	J³	DS	JB	10/3/2023
C	ADDED ITEM 13 & DET. G.	CD	DS	JB	5/8/2023
B	RELEASED FOR FABRICATION.	CD	DS	JB	4/28/2023
A	REVISED FOR CONSISTENCY.	CD	DS	JB	3/29/2023

MATERIAL FINISH	
EXTERIOR	MILL
WELD FINISH	
EXTERIOR	CLEANED
PAINT	ALL CARBON STEEL TO BE HOT DIP GALVANIZED

DRAWN	CHRIS DAVIS	DATE 2/16/2023
CHECKED	DANIEL STAUFFER	DATE 2/16/2023
DES. ENGR. APPROVED	JEFF BRUNSON	DATE 2/16/2023

HANDRAIL

SHEET 1 OF 1

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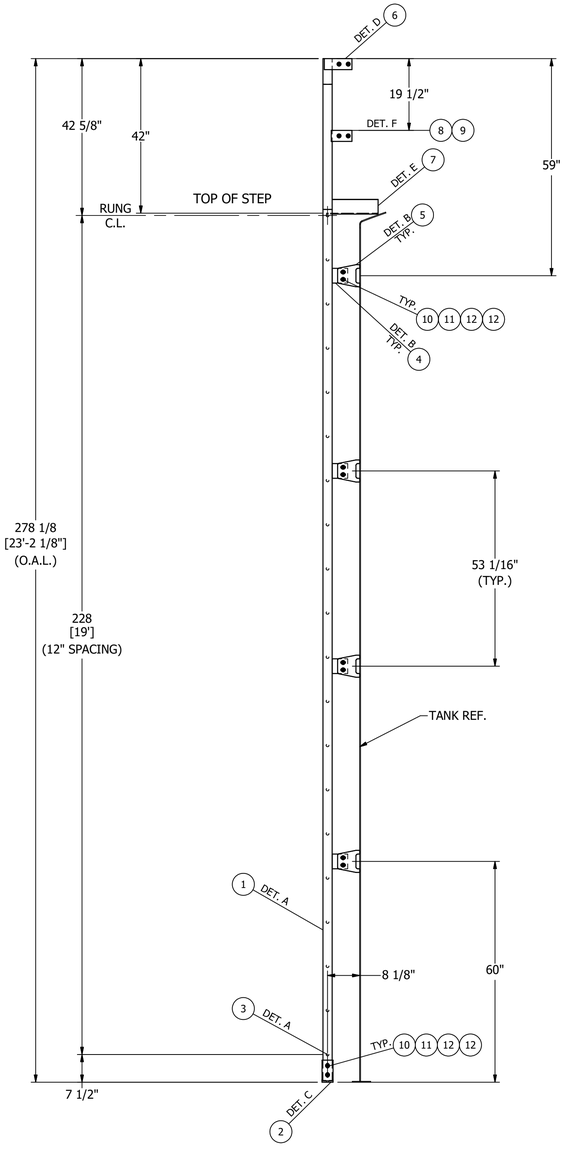
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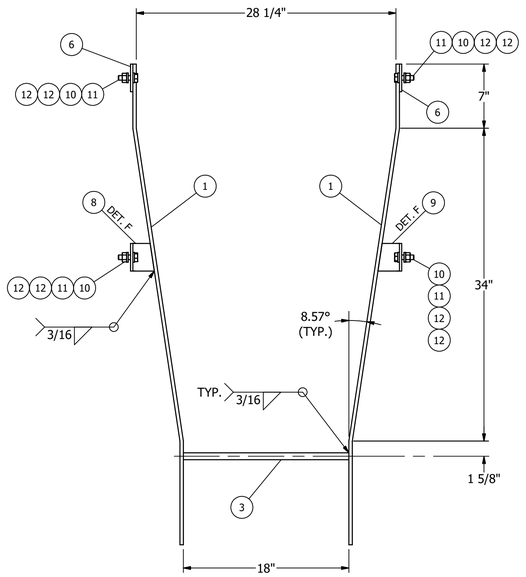
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DRAWING NO. 102035-1-L5 F REVISION

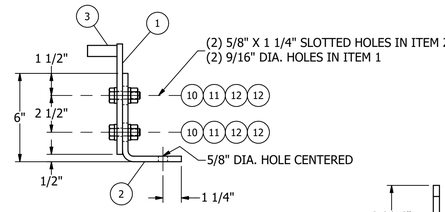
ITEM	QTY	PART #	DESCRIPTION	MATERIAL
1	2		STRINGER, 3/8" X 2 1/2" F.B. X 278" LG.	A36
2	2		BASE CLIP, 3/8" THK. X 3" X 9 1/4" (BRK. 4" X 6")	A36
3	20		RUNG, 3/4" DIA. R.B. X 17 7/8" LG.	A36
4	8		CONNECTION CLIP, 3/8" THK. X 4" X 4 1/4"	A36
5	8	TS-12-19600600	TANK STUB, 7 GA. X 6" X 6" W/ (2) 5/8" X 1 1/4" LG. SLOTTED HOLES	304/304L
6	2		LADDER CLIP, 1/4" THK. X 3" X 7 1/2" W/ (2) 5/8" DIA. HOLES	A36
7	1		TOP STEP, 1/4" TREAD PLATE X 14" X 25 5/16" (BREAK A/R)	304/304L
8	1		LADDER CLIP, 1/4" THK. X 3" X 7 3/4" LG. W/ (2) 5/8" X 1 1/4" SLOTTED HOLES	A36
9	1		LADDER CLIP, 1/4" THK. X 3" X 7 3/4" LG. W/ (2) 5/8" X 1 1/4" SLOTTED HOLES	A36
10	28	FS-24-05000030	NUT, 1/2"-13UNC HEAVY HEX	GALV. A563
11	28	FS-24-05017510	BOLT, 1/2"-13UNC HEAVY HEX X 1 3/4" LG.	GALV. A325
12	56	FS-24-05000065	WASHER, 1/2" FLAT	GALV. F436



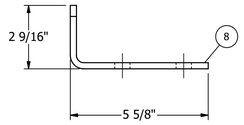
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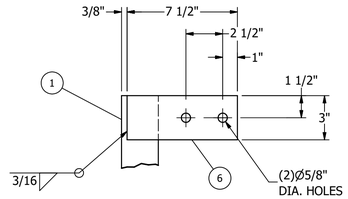


DETAIL A
(STRINGER/RUNG)

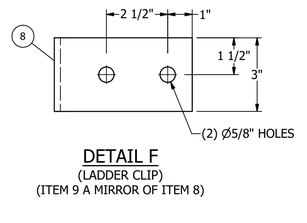


DETAIL C
(BASE CLIP)

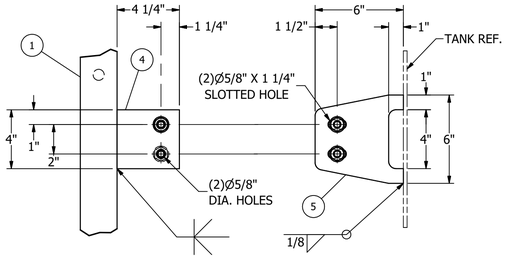




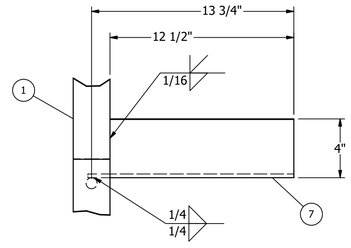
DETAIL D
(TOP RAIL CLIP)



DETAIL F
(LADDER CLIP)
(ITEM 9 A MIRROR OF ITEM 8)



DETAIL B
(CONNECTING CLIP)



DETAIL E
(TOP STEP)

REV	DESCRIPTION	DESIGNER	CHECKED BY	ENGINEER	DATE
F	CERTIFIED AS-BUILT.	CD	-	JB	11/19/2024
E	REVISED FOR CONSISTENCY	CD	SW	JB	10/18/2024
D	REVISED FOR CONSISTENCY	J3	DS	JB	10/3/2023
C	NEW DRAWING, RELEASED FOR FABRICATION.	CD	DS	JB	5/8/2023

MATERIAL FINISH	
EXTERIOR	MILL
WELD FINISH	
EXTERIOR	CLEANED
PAINT	ALL CARBON STEEL TO BE HOT DIP GALVANIZED

DRAWN	CHRIS DAVIS	DATE 5/8/2023
CHECKED	DANIEL STAUFFER	DATE 5/8/2023
DES. ENGR. APPROVED	JEFF BRUNSON	DATE 5/8/2023

LADDER DRAWING

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DRAWING NO. 102035-1-L6

REVISION F