

BILL OF MATERIALS

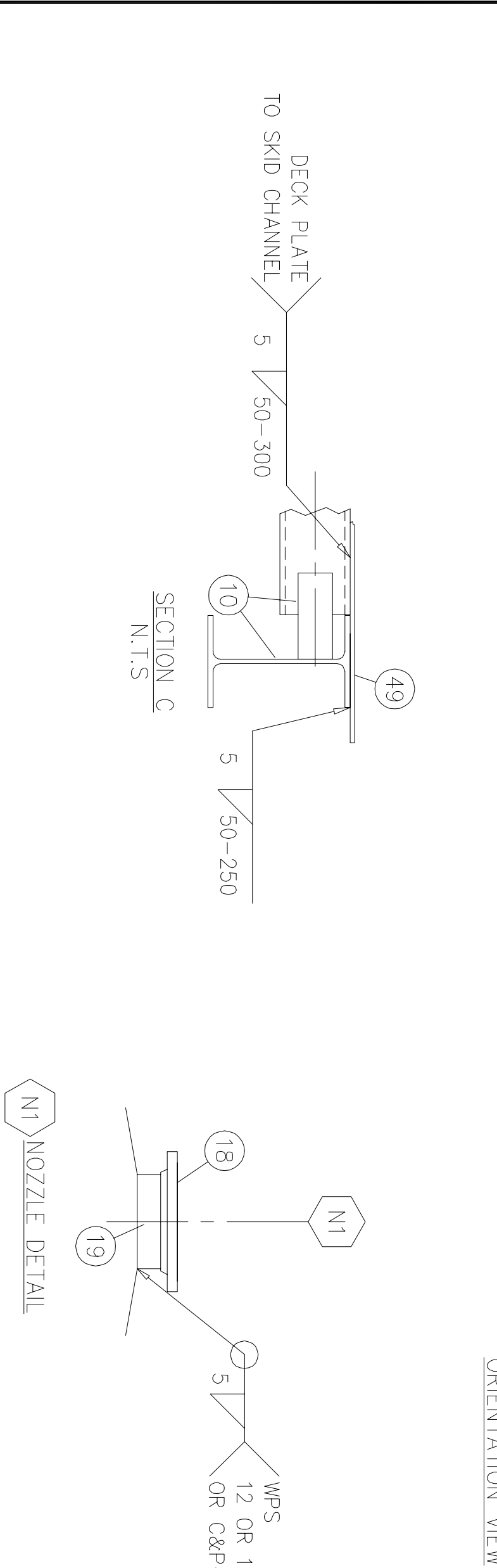
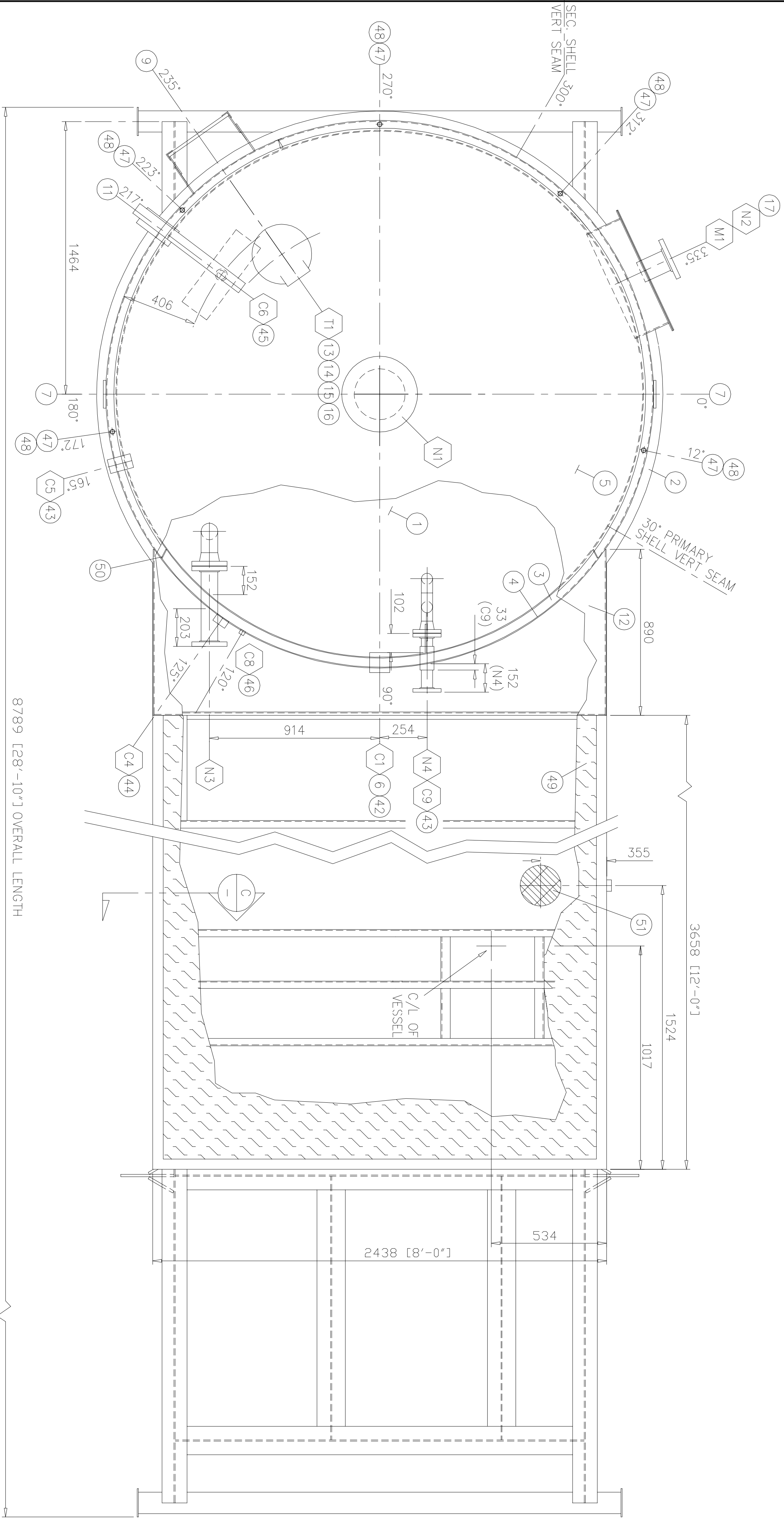
MKNO.	QTY.	DESCRIPTION	MAT'L	REMARKS	WT.(KG)
1	1	PLATE: 6.4 x 2908 DIA.	A36/44W	PRIMARY FLOOR	335
2	1	PLATE: 6.4 x 3040 x 3245 LG. x DETAIL	A36/44W	SECONDARY FLOOR	415
3	1	PLATE: 4.8 x 2414 x 8886 LG.	A36/44W	PRIMARY SHELL	810
4	1	PLATE: 4.8 x 2420 x 9223 LG.	A36/44W	SECONDARY SHELL	840
5	1	PLATE: 4.8 x 2894 CUT DIA.	A36/44W	ROOF	245
6	1	NAMEPLATE BRACKET	A36/44W	DESIGN STD. 14102	1
7	2	PLATE: LIFTING LUG TYPE LL1	A36/44W	DESIGN STD. 12300	7
8	1	ANGLE: 50 x 50 x 4.8 x 9000mm LG. x 44W		ROUND ANGLE	33
9	1	LADDER: REMOVABLE; 2135mm C/L RUNG/RUNG		REF:DWG. T-019874-103	20
10	1	SKID: 7416mm [24'-4"] LG.		REF:DWG. T-019874-102	808
11	1	LEVEL INDICATOR c/w UIC STD. BOARD,HARDWARE		REF:DWGS. EDS-2711 & 20	
		FLOAT,GUIDE WIRES,FLOOR CLIPS,SPREADER BAR		EDS-2720	
12	1	BUILDING ATTACHMENT FRAME	A36/44W	REF. DWG. T-019874-104	160
13	1	THIEF HATCH NOZZLE (NECK LENGTH 190mm)		DESIGN STD. 20200	13
14	1	THIEF HATCH: ENARDO MODEL 330 SET @ 4oz PRESSURE & 0.4 oz VACUUM		THIEF HATCH	10
15	16	BOLT: 1/2" DIA. x 2" LG.	GR-5	THIEF HATCH HARDWARE	
16	16	NUT: 1/2" DIA.	GR-5	THIEF HATCH HARDWARE	
17	1	610x1220 (24x48") CLEANOUT MANWAY c/w N2	44W	REF:DWG. T-019874-107	117
18	1	FLANGE: 273ø (10") ANSI 150 RFSO	A105	N1	13
19	1	PIPE: 273ø (10") STD SMLS x 122 LG.	A106B	N1	6
20	1	10" VENT NOZZLE WITH BIRDSCREEN		REF. DWG. T-019874-108	18
24	4	STUD: 5/8" DIA. x 3" LG.	A193-B7	N4 HARDWARE	
25	12	STUD: 5/8" DIA. x 3 1/2" LG.	A193-B7	N1/N3 HARDWARE	
26	32	NUT: 5/8" DIA.	A194-2H	N1/N3/N4 HARDWARE	
27	2	FLANGE: 89ø (3") ANSI 150 RFSO	A105	N3	8
28	1	FLANGE: 89ø (3") ANSI 150 RFWN STD.	A105	N3 DOWNCOMER FLANGE	5
29	1	PIPE: 89ø (3") STD SMLS x 400 LG.	A106B	N3	4
30	1	PIPE: 89ø (3") STD SMLS x 642 LG. (BOE)	A106B	N3 DOWNCOMER	7
31	1	ELBOW: 89ø (3") STD x 90° LRWE	A234WB	N3 DOWNCOMER ELBOW	1
32	1	GASKET: 89ø (3") x 3mm ANSI 150 FLEXITALLIC	304SS	N3 GASKET	4
33	2	FLANGE: 60ø (2") ANSI 150 RFSO	A105	N4	3
34	1	FLANGE: 60ø (2") ANSI 150 RFWN STD.	A105	N4 RISER FLANGE	3
35	1	PIPE: 60ø (2") STD SMLS x 302 LG. (PBE)	A106B	N4	5
36	1	PIPE: 60ø (2") STD SMLS x 1372 LG. (BBE)	A106B	N4 RISER	7
37	3	ELBOW: 60ø (2") STD x 90° LRWE	A234WB	N4 ELBOW	3
38	1	GASKET: 60ø (2") x 3mm ANSI 150 FLEXITALLIC	304SS	N4 GASKET	1
39	2	FLATBAR: 6.4 x 50 x 152 LG. x DETAIL	44W	N4 RISER SUPPORT	1
40	1	BOLT: 1/2" DIA. x 1" LG.	GR-5	N4 SUPPORT HARDWARE	
41	1	NUT: 1/2" DIA.	GR-5	N4 SUPPORT HARDWARE	
42	1	CRUG-FULL: 76ø (3") 3000# NPT THRD	A105	C1	6
43	2	CRUG-LONG: 51ø (2") 3000# NPT THRD x12LZLG.	A105	C5/C9	4
44	1	CRUG-HALF: 51ø (2") 3000# NPT THRD	A105	C4	1
45	1	CRUG-FULL: 38ø (1 1/2") 3000# NPT THRD	A105	C6	1
46	1	CRUG-HALF: 13ø (1/2") 3000# NPT THRD	A105	C8	1
47	3	NIPPLE: 27ø (3/4") XH SMLS THRD x 76 LG. x CUT IN HALF (5 POS REQ. PER TANK)	SA106B	INSULATION PORT	1
48	5	CAP: 27ø (3/4") NPT THRD 3000#	SA105N	INSULATION PORT CAP	1
49	1	CHECKERPLATE: 6.4 x 2438 x 3658 LG.	A36/44W	DECK PLATE	434
50	2	FLATBAR: 6.4 x 50 x 2410 LG.	44W	INSULATION BARRIER	10
51	1	DRAIN ASSEMBLY		REF. DWG. T-019874-109	33

- NOTES:-
- (1) ALL DIMENSIONS ARE IN MILLIMETERS UNLD. IMPERIAL UNITS SHOWN IN BRACKETS [] ARE FOR REFERENCE ONLY.
- (2) FLANGE BOLT HOLES TO STRADDLE DIMENSION CENTERLINES.
- (3) ALL FLANGE RATINGS TO BE ASME B16.5A-2009.
- (4) NOZZLE PROJECTIONS ARE GIVEN ALONG NOZZLE CENTERLINES.
- (5) THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING: 100BBL-GA(SHT. 1 OF 2), DESIGN NOTES , ELEVATION VIEW.



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NOZZLE SCHEDULE

MK.	QTY.	SIZE	SCH.	RATING	TYPE	DESCRIPTION	ELEV.	ORIENTATION	EXT. PROJ.
M1	1	-->			FAB'D	610x1220 [24x48"] CLEANOUT MANWAY	-	335°	102
T1	1	219/8"	-	-	FAB'D	THIEF HATCH NOZZLE	ROOF	235°	152
N1	1	273 /10"	STD	ANSI 150	RFSO	VENT c/w SCREEN	ROOF	ROOF CENTER	102
N2	1	114 / 4"	STD	ANSI 150	RFSO	SPARE FOR ANODE (MOUNTED IN M1 DOOR)	286	335°	SEE M1
N3	1	89 / 3"	STD	ANSI 150	RFSO	PUMP/OUT c/w REMOVABLE DOWNCOMER	813	SEE PLAN	SEE PLAN
N4	1	60 / 2"	STD	ANSI 150	RFSO	INLET c/w REMOVABLE RISER	813	SEE PLAN	SEE PLAN
C1	1	76 / 3"	-	3000#	FULL CPLG	FULL SWITCH HIGH	2210	90°	HALF PROJ.
C4	1	51 / 2"	-	3000#	HALF CPLG	INTERSTITIAL DRAIN (SECONDARY ONLY)	76	108°	FLUSH
C5	1	51 / 2"	-	3000#	LONG CPLG	SPARE	2210	165°	35
C6	1	38 / 1.5"	-	3000#	FULL CPLG	LEVEL GAUGE	ROOF	217°	HALF PROJ.
C8	1	13/ 1/2"	-	3000#	HALF CPLG	INTERSTITIAL SIGHT GLASS (SECONDARY ONLY)	76	115°	FLUSH
C9	1	51 / 2"	-	3000#	LONG CPLG	SPARE	2210	SEE PLAN	SEE PLAN

TANK DATUM: TOP OF SECONDARY FLOOR PLATE

