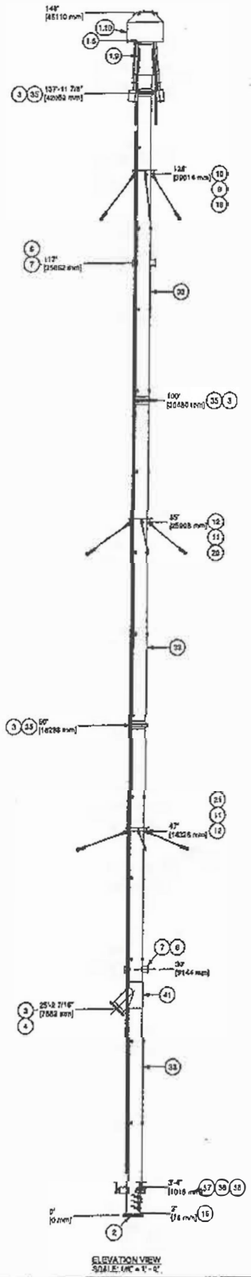
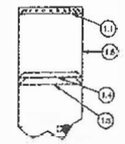
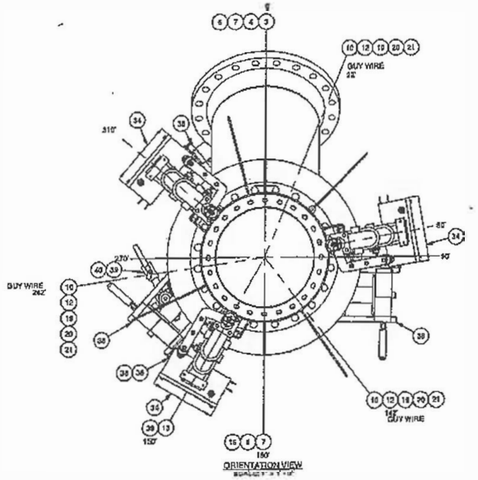


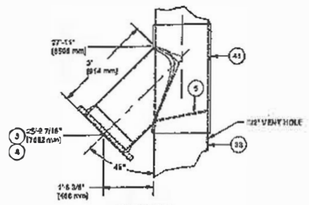
ELEVATION VIEW
SCALE: 1/8" = 1'-0"



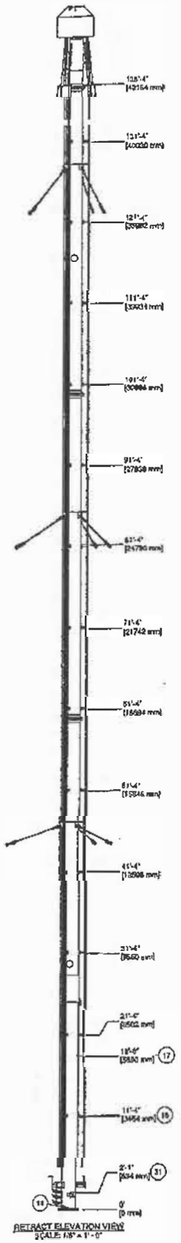
PURGE DEVICE DETAIL
SCALE: 1/2" = 1'-0"



ORIENTATION VIEW
SCALE: 1" = 1'-0"



INLET DETAIL
SCALE: 1/2" = 1'-0"



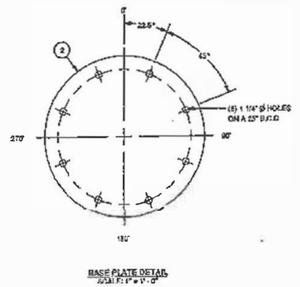
RETRACT ELEVATION VIEW
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. SURFACE PREPARATION STAINLESS STEEL (FLARE BURNER ONLY). LIGHT GRIT BLAST.
2. SURFACE PREPARATION TO SSPC-SP 6
   FINISH PAINT AS PER TRANSPORT CANADA STANDARD 321.19 CHAPTER 3 DAYMARKINGS.
   SEVEN (7) EQUAL BANDS INTERNATIONAL ORANGE & WHITE BEGINNING AND ENDING IN ORANGE.
   PRIMER: PPG/AEC, ENDURA EPOXY (1.5 MILS DFT MIN)
   TOP COAT: ENDURA EXHG ALIPHATIC POLYURETHANE (2.0 MILS DFT MIN.
3. APPROXIMATE SHIPPING WEIGHT: 17,251 LBS (7,825 KG)
4. ALL FLANGES TO BE TWO HOLED TO CENTER LINE.
5. SOME ITEMS ARE SHOWN OUT OF POSITION FOR CLARITY.
6. MILL TEST CERTIFICATES REQUIRED ON ALL MATERIALS FOR FLARE BURNER.
7. MILL TEST CERTIFICATES REQUIRED ON ALL PROCESS GAS MATERIALS ONLY ON STACK.
8. FOUNDATION ARE NOT INCLUDED AND TO BE PROVIDED BY OTHERS
9. THE FOLLOWING ARE THE FABRICATION TOLERANCES UNDERSIZE
   IMPERIAL LINEAR DIMENSION ..... 1/8 inch
   METRIC LINEAR DIMENSION ..... 3 mm
   ANGULAR DIMENSION ..... 1.0 degrees
   DIAMETER OVER SIZE ..... +/- 2%
10. 100% RADIOGRAPHY OF ALL FLARE BURNER CIRCUMFERENTIAL BUTT WELDS.
    INTERPRETATION AS PER ASME 831.3
11. 100% RADIOGRAPHY OF ALL PROCESS GAS RISER CIRCUMFERENTIAL BUTT WELDS.
    INTERPRETATION AS PER ASME 831.3
12. 100% MAGNETIC PARTICLE ON CHOKE TRUNNIONS, TAILING LEG, AND GUY WIRE LUGS.
13. GUY WIRE RADIUS= 100 ft (30480 mm)
14. ALL FILLET WELDS TO BE EQUAL TO THE THICKNESS OF ITS THINNEST MEMBER. U.N.O.

Parts List

ITEM	DESCRIPTION	QTY.	SIZE	MAT.
1	FLARE TIP	1	24" GA SCH 10S x 12" + 24"HIGH	SA-312-316L
1.1	PURGE RETENTION RING	1	1/4" THK	SA-240-316L
1.2	ROLLED CONE	1	24" x 25" x 1/4" THK 90° TAU	SA-240-316L
1.3	PURGE RING	1	1/8" THK	SA-240-316L
1.4	PURGE RING	1	5/8" THK	SA-240-316L
1.5	PULLEY ASSEMBLY	3	6310	SA-240-316L
1.17	PURGE RETENTION PINS	1	3/4" THK	SA-240-316L
1.6	PILOT	3	MODEL 551-TC	SA-312-316/316L
1.7	FLANGE RFWN	1	300-150# SCH STD	SA-105-N
1.8	UPPER FLARE TIP	1	24"SCH 10S	SA-312-316L
1.9	LOWER FLARE TIP	1	24"SCH 10S	SA-312-316L
1.10	CONICAL WINDSHROUD	1	1/4" THK PLATE	SA-240-316
1.11	WINDSHROUD GUSSET	4	1/4" THK x 4" LG	SA-240-316
1.12	CONICAL WIND LIFT LUG	2	TYP	SA-240-316
1.14	TRACK CLIP	3	3/8" THK x 2"x 3" LG (O.T.S)	SA-240-316L
1.15	TRACK CLIP	6	3/8" THK x 2 x 3" LG	SA-240-316L
1.16	NAME PLATE c/w MOUNTING BRACKET	1	SYNCTROL	SA-240-316L
2	BASEMENTRY PLATE	2	1 1/2" THK x 30" O.D.	SA-36/44W
3	FLANGE RFWN	7	20"- 150# SCH STD	SA-105-N
4	INLET	1	20" SCH STD	SA-106B
5	BAFFLE PLATE	1	1/2" THK (C.E.A.@ 1.0 DEN.)	SA-516-70N
6	LEG TRUNNION	4	8" SCH STD PIPE	SA-106 B
7	TRUNNION CAP	4	1/2" THK PLATE x 12"O.D.	SA-36/44W
8	TOP GUY STIFFENING RING	1	1/2" THK PLATE x 20 1/8" I.D. x 25" O.D.	SA-36/44W
9D	TOP GUY LUG	3	1" THK PLATE	SA-36/44W
9E	LOWER GUY STIFFENING RING	2	1/2" THK PLATE x 20 1/8" I.D. x 25" O.D.	SA-36/44W
10	LOWER GUY LUG	6	1" THK PLATE	SA-36/44W
10	TRACK	3	SYNCTRONIC MAC TRACK	G.ALV. SA-36/44W
11	TRACK CLIP	1	3/8" THK x 2" FLAT x 3.125" LG	SA-36/44W
12	NAME PLATE c/w MOUNTING BRACKET	1	1/8" THK	SA-36/44W
13	DRAIN	1	1/2" COUPLING	A105-N
17	OFFSET PULLEY	3	LOWER OFFSET PULLEY ASSEMBLY	SA-36 G.ALV.
18	TRACK ALIGNED BRACKET	30	3/8" THK x 4" FLAT x 3.75" LG	SA-36/44W.
19	UPPER GUY WIRE E.I.P.S. SYNC	3	3/4" DIA 187 ft LG GUY WIRE	G.ALV.
		3	3/4" XH FLEMISH THIMBLE EYE	G.ALV.
		3	5 1/2 TON SHACKLE (CROSBY) 3/4"	G.ALV. G2130
		3	3/4" XH THIMBLE	G.ALV.
		12	5/8" C.LIPS	G.ALV.
		1	1" x 24" LG (E.J.) TURNBUCKLE	G.ALV.
20	MID GUY WIRE E.I.P.S. SYNC	3	5/8" DIA 115 ft LG GUY WIRE	G.ALV.
		3	5/8" XH FLEMISH THIMBLE EYE	G.ALV.
		3	4 3/4 TON SHACKLE (CROSBY) 5/8"	G.ALV. G2130
		3	5/8" XH THIMBLE	G.ALV.
		8	5/8" C.LIPS	G.ALV.
		3	7/8" x 12" LG (E.J.) TURNBUCKLE	G.ALV.
21	BOTTOM GUY WIRE E.I.P.S. SYNC	3	1/2" DIA 41 ft LG	G.ALV.
		3	1/2" XH CROSBY THIMBLE EYE	G.ALV.
		3	3 1/4 TON SHACKLE (CROSBY) 1/2"	G.ALV. G2130
		3	1/2" XH THIMBLE	G.ALV.
		6	1/2" C.LIPS	G.ALV.
		3	7/8" x 12" LG (E.J.) TURNBUCKLE	G.ALV.
22	HEX BOLT	24	1/2" DIA x 2" LG	SA-325
23	HEX NUT	24	1/2" DIA	SA-325
24	WASHER (PLATE)	24	1/2" DIA	SA-325
25	WASHER (LOCK)	2	1/2" DIA	SA-325
26	RING 24" HUB FLANGE	80	1 1/8" DIA x 1 1/4" LG	SA-193-B7M
28	NUT	160	1 1/8" DIA	SA-194-2HM
31	JUNCTION BOX CLIP	1	1/4" THK x 2" FLAT (TYP)	SA-36/44W
31	STACK RISER	1	20"SCH STD	SA-106B
34	MODEL 551 PROT'ed THERMOCOUPLE TYPE K	4		
35	GASKET SPIRAL WOUND (FLEXITALLIC)	3	150 LB/FF	316 SS
36	WASHER	3	WASHER-BARREL-HYDRO	SA-36/44W
37	WINCH PLATE BACKER	3	3/8" THK PLATE	SA-36/44W
38	WINCH	3		
39	CABLE GUARD	3	PRO-REGO RAN-GE	
40	INSTRUMENTATION CLIP	3	1/4" THK x 2"	SA-36/44W
41	PULL ROAD ON WELD HOLE	1	1/4" THK ROLLED PLATE	SA-36/44W



BASE PLATE DETAIL
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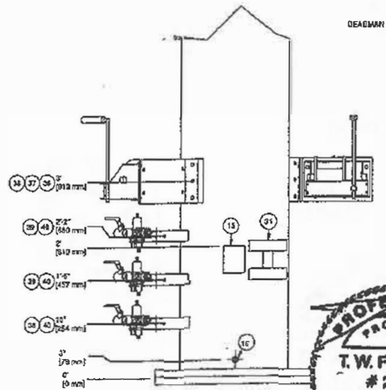

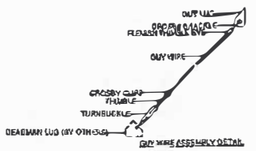

GUY WIRE ASSEMBLY DETAIL

CHOKE TRUNNION DETAIL

DESIGN NOTES:

3.175mm CORROSION ALLOWANCE

DESIGN WIND SPEED: 25.2 m/s

UNFACTORED BASE LOADS

MOMENT:	20 kN-m
SHEAR:	12 kN
VERTICAL:	231 kN

UNFACTORED GUY ANCHOR LOADS

SHEAR:	87 kN
UPLIFT:	82 kN

INITIAL GUY WIRE TENSION

INITIAL TOP TENSION:	26 kN
INITIAL MID TENSION:	13 kN
INITIAL BOTTOM TENSION:	13 kN

REVISION BLOCK

REV.	DATE	DESCRIPTION	BY:
0	06-JAN-12	APPROVAL	CGW
1	17-JAN-12	FABRICATION	CGW
2	27-JAN-12	FABRICATION	CGW
3	27-MAR-12	ISSUED FOR STRUCTURAL APPROVAL	CGW

PROFESSIONAL ENGINEER
PROVINCE OF BRITISH COLUMBIA
T. W. FREEMAN
27705

Apr. 2/12
Structural Only

MACTRONIC
A DIVISION OF FLARE INDUSTRIES

CLIENT:			
LOCATION:	SIERRA	P.O. #:	GEOFH-40376
LSD:	6-25-60-4W4-11	TAG #:	
TITLE:	25" x 148'-0" TALL GUY SUPPORTED FLARE STACK GENERAL ARRANGEMENT		
DRAWN BY: CGW	CHECKED BY:	DATE: 25-JAN-12	SHEET: 1 OF 1
APP. BY:	PROJECT BY:	SCALE: N.T.S.	SIZE: D / REV: 3
JOB ORDER #: 11-0414	DRAWING #:	11-0414-GA	