

CHANNEL ORIENTATION
VIEW FROM "A-A"



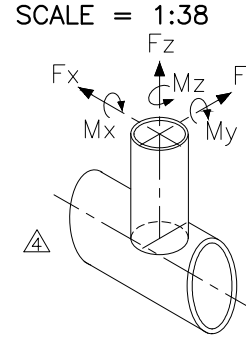
SHELL ORIENTATION
VIEW FROM "A-A"



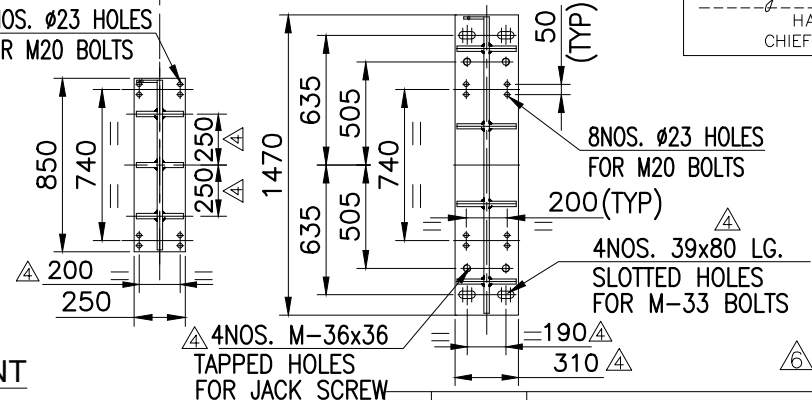
KEY PLAN WITH LS & CS JOINT



4 NOZZLE LOAD/MOMENT



NOZZLE	SIZE	F _x (kgf)	F _y (kgf)	F _z (kgf)	RESULTANT FORCE (kgf)	M _x (kgf-m)	M _y (kgf-m)	M _z (kgf-m)	RESULTANT MOMENT (kgf-m)
S1 & S2	10"	±936	±936	±936	±1621.06	±1202	±1202	±1202	±2082.67
T1 & T2	16"	±5670	±5670	±5670	±9820.45	±9521	±9521	±9521	±16491.62



"AS BUILT DWG"

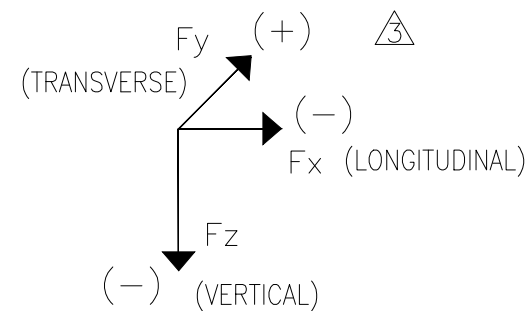
DRAWING CERTIFIED BY
Harry R. Bishop 05/26/03


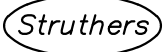
HARRY R. BISHOP
CHIEF DESIGN ENGINEER

4 FOUNDATION LOADS

LOCATION	FIXED SADDLE LOAD (CHANNEL SIDE)				SLIDING SADDLE LOAD (SHELL SIDE)			
CONDITION	VERTICAL REACTION (kgf) (Fz)	LONGITUDINAL SHEAR FORCE (kgf) (Fx)	TRANSVERSE FORCE (kgf) (Fy)	LONGITUDINAL MOMENT (kgf-m)	VERTICAL REACTION (kgf) (Fz)	LONGITUDINAL SHEAR FORCE (kgf) (Fx)	TRANSVERSE FORCE (kgf) (Fy)	LONGITUDINAL MOMENT (kgf-m)
ERECTION	+23076.00	—	—	—	+25324.00	—	—	—
FULL OF WATER	+25147.78	—	—	—	+31552.22	—	—	—
OPERATING/ THERMAL EXPANSION & CONTRACTION	+24654.49	-6163.62	—	-7858.62	+29685.51	+7421.38	—	+9462.26
SHELL PULLING	—	-30860	—	-39346.5	—	—	—	—
ADDITIONAL LOADS								
NOZZLE LOADS Δ	± 43143.88	± 19857	± 43291.39	± 55323	± 20201	± 5284.8	± 16833.08	± 6738.12
SEISMIC LOAD (AT OPERATING CONDITION)	—	± 1630.2	± 815.1	± 2078.51	—	± 1630.2	± 815.1	± 2078.51
WIND LOAD	—	± 179.69	± 1248.98	± 229.1	—	± 179.69	± 1248.98	± 229.1

6 NOTE :- ALL DIMENSIONS ARE WITHIN LIMIT.



6	05/26/03	AS BUILT DIMENSIONS ARE SHOWN IN		DMF	WB	HRB
		BKT (-) & OTHER REVISED AS MKD. <u>Δ</u> THUS				
5	10/10/02	DRAWING IS REVISED AS MKD. <u>Δ</u> THUS		DMF	WB	HRB
REV.	DATE	DESCRIPTION		DRWN	CHKD	APPD
PROJECT NAME : CPCL REFINERY- III PROJECT						
MANUFACTURER :		 <small>Factory: Ashok Village, Dist. Thane, & Ward, Shree Ram: 400002604, Mumbai. MA.</small>				
ENGINEERING :		 STRUTHERS INDUSTRIES, INC. GULFPORT, MISSISSIPPI				
CONSULTANT :		ENGINEERS INDIA LIMITED				
CLIENT :		CHENNAI PETROLEUM CORPORATION LIMITED				
TITLE :				EQPT. NO.		
SETTING PLAN FOR RX EFFLUENT / CLPS LIQUID				207-E4		
JOB NO.	SII	3-02-04-41206B	P/O No.	1027/PO/2138/4814		
	TEMA	T/E/02517				
SCALE	AS SHOWN	DWG. No. or Doc No.	VP-1027-E4-02517	SHT. NO.	Rev.	
				4 OF 18	2/4/8/16	6