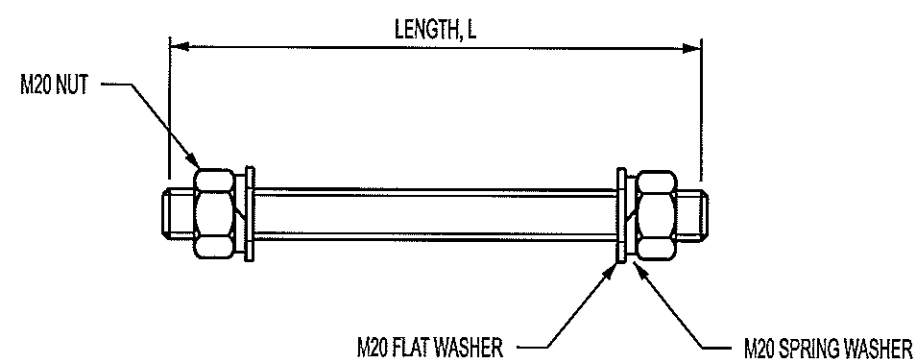


DO NOT SCALE - IF IN DOUBT, ASK

NOTES

- 1) ALL DIMENSIONS IN MM UNLESS OTHERWISE STATED.
2) LENGTH, L, ALLOCATED IN METERS



MASTER

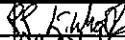
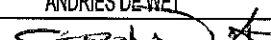
2008-04-01



TRANSNET
TRANSNET PROJECTS

MATERIAL	M20 THREADED STAINLESS STEEL GRADE 316
FINISH	NATURAL

NOTES:

						EPCM CONSULTANT: HMGJV				ORIGINATOR: TP DESIGN					
						TITLE	NAME	SIGNATURE	DATE	TITLE	NAME	SIGNATURE	DATE		
						LEAD DES. ENG.	J. STRYDOM		27 03 08	DRAWN	R. PENFOLD		27 03 08		
						ENG. COORD.	N. WELCH		27 03 08	CHECKED	D. WILLCOCK		27 03 08		
						ENG. MANAGER	T. SOUTHWOOD		27 03 08	ENG. COORD.					
						AREA MANAGER	T. KGOBE		27 03 08	DISCIP. ENG.					
						PROJECT MGR.				ENG. MANAGER					
1	FOR CONSTRUCTION	R.P.	D.W.	A.D.W.	27/03/08	CLIENT APPROVAL: TRANSNET FREIGHT RAIL				AREA MANAGER					
A	FOR CLIENT APPROVAL	R.P.	D.W.	A.D.W.	13/03/08	TITLE	NAME	SIGNATURE	DATE	SIGNAL ENG.					
NO.	DESCRIPTION	BY	CHK'D	APP'D	DATE	SEN. ENG. (ELEC & SIG)	T. EMERAN		27 03 08	PR. ENG. / PR. TECH.					
REVISIONS / ISSUE AUTHORIZATION						SEN. TECHNOLOGIST (ELEC)	M. MLONZI		27 03 08	NAME ANDRIES DE WET					
												SIGNATURE 			
												REG. NUMBER 9070204			
This Document including all design and information therein is Confidential Intellectual Property of Transnet and/or HMG JV. Copyright and all other rights are reserved by Transnet and/or HMG JV. This Document may only be used for its intended purpose.									SCALE : NTS			OR AS A			



ORE LINE RAIL EXPANSION PROJECT PHASE 1A

SISHEN SALDANHA RAILWAY LINE (TFR)
OHE CATENARY SYSTEM
M20 THREADED ROD WITH WASHERS AND NUTS
DRAWING DETAIL

PROJECT NUMBER								DV	FBS		DIS	TYPE	DRG. NO.		SHT.	REV.	ID					
3	H	5	0	0	1	1	0	-3-	1	3	3	-E-	D	E	-0	0	7	1	-0	1-	1	JV