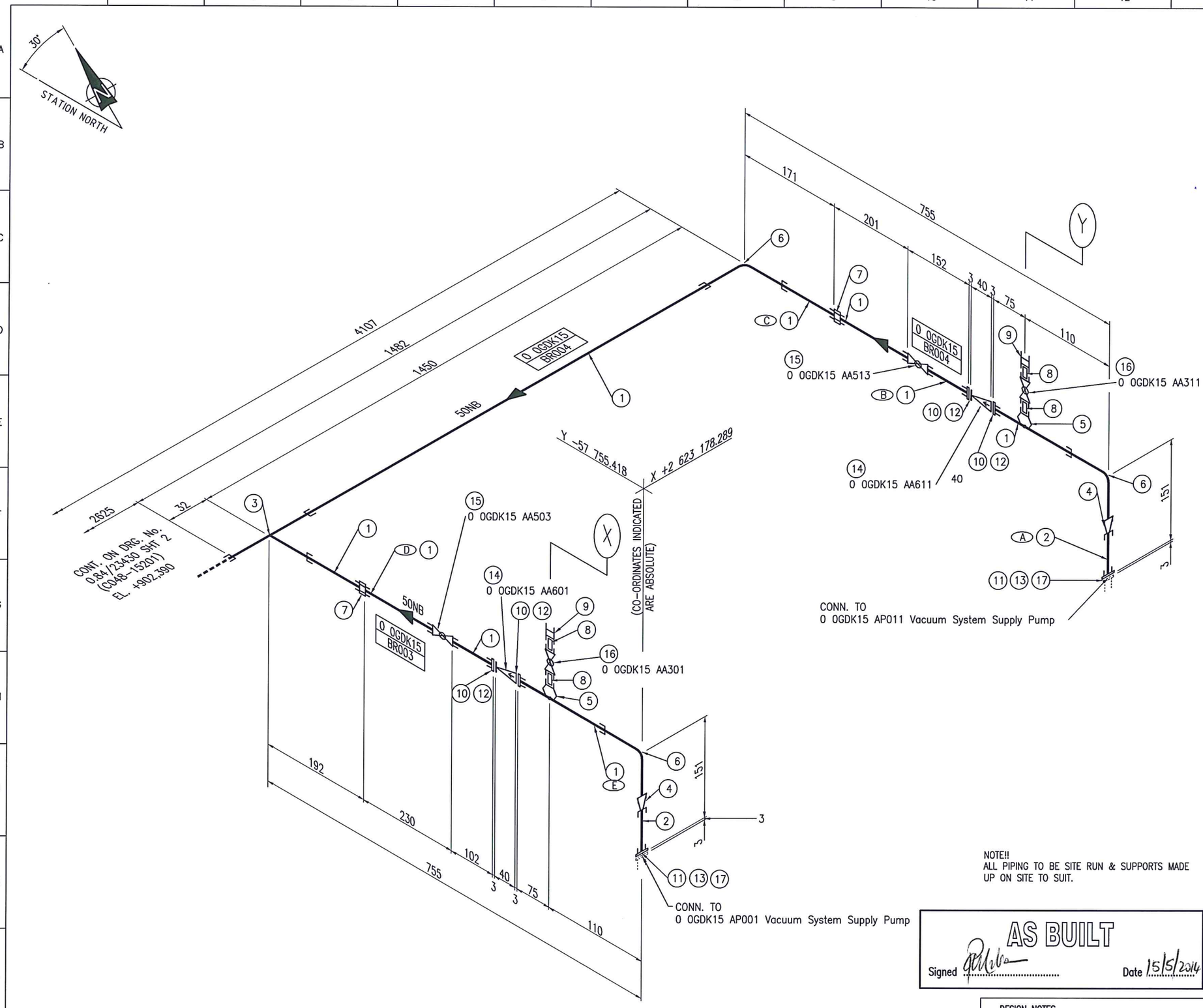

NOTE!!
ALL PIPING TO BE SITE RUN & SUPPORTS MADE UP ON SITE TO SUIT.

MATERIAL LIST

LINE No. 1705-50-CG-FW

SERVICE: FW (FILTERED WATER) CG SPECIFICATION

ITEM	SIZE	QTY	DESCRIPTION
1	50	2.6 M	PIPE, SABS62 MED. WALL GALV.
2	32	0.2 M	PIPE, SABS62 MED. WALL GALV.
3	50X50	1	TEE, THRD, BS 1740 GALV.
4	50X32	2	REDUCING BUSH, 3000# ANSI B16.11 GALV.
5	50X15	2	THREAD-O-LET, 3000# ANSI B16.11 GALV.
6	50	3	ELBOW, 90 THRD, BS 1740 GALV.
7	50	2	UNION, THRD, BS 1740 GALV.
8	15	4	NIPPLE, 3000# ANSI B16.11 GALV. TBE (60 MM LG)
9	15	2	FULL CLPG, THRD, BS 1740 GALV.
10	50	4	FLG, RF THRD SABS 1123 1000/4, M.S. GALV.
11	32	2	FLG, RF THRD SABS 1123 1000/4, M.S. GALV.
12	50	4	GASKET, RING TYPE TO SABS 1123 1000x3mm, RUBBER INSERTION
13	32	2	GASKET, RING TYPE TO SABS 1123 1000x3mm, RUBBER INSERTION
14	50	2	CHECK VALVE, HAITIMA 2026
15	50	2	BALL VALVE, THRD, HAITIMA 2017K
16	15	2	BALL VALVE, THRD, HAITIMA 2017K
17	M16x55	8	BOLT, C/W NUT AND WASHER TO SABS 135 4.6. HD GALV.

GENERAL NOTES

1) ALL PIPING MATERIAL AS PER AQUA SPECIFICATION 200-12752.
2) ALL FITTINGS AS PER AQUA SPECIFICATION 200-12752.
3) ALL WELDS MUST BE CONTINUOUS, SMOOTH & FREE FROM ANY SLAG, SPLATTER ETC.
4) ALL SHARP EDGES, CORNERS, HOLES ETC TO BE GROUND SMOOTH & ROUNDED (ie 3mm RAD. MIN)
5) ALL FLANGES & GASKETS AS PER AQUA SPECIFICATION 200-12752. BOLT HOLES TO STRADDLE CENTRE LINES
6) ALL ITEMS TO BE CLEARLY MARKED USING HARD STAMPED LETTERING
7) PIPE MARKING LEGEND :~ ITEM C048/15200-A (DRG ORIGINATED FROM — TAG No.)
8) CORROSION PROTECTION : H.D. GALV.
9) CORROSION PROTECTION TO ESKOM SPECIFICATION - CSS 222
10) ALL S.STEEL BOLT THREADS MUST BE TREATED WITH A NICKEL BASED, ANTI-SEIZE CORROSION PROTECTION COMPOUND.
11) TOLERANCES - REFER TO QP/AE/28 PIPE FABRICATION SPECIFICATION
12) PLAIN PIPE ENDS SHOULD BE SMOOTH, WITH NO SEAMS, SCORE MARKS, DENTS OF OVALITY BEYOND THOSE DETAILED IN BS 534-1990 SECTION 15
13) THE C.P. OF THE STATION IS Y=-57 470.000 AND X=2 622 675.000 (I.A.W. WGS84/Lo27 SYSTEM)
14) THE STATION DATUM LEVEL IS 902.250 m.

WHERE APPLICABLE :
* GREEN ENDS - ALLOW AN ADDITIONAL 200mm TO LENGTH OF PIPE WHERE GREEN ENDS ARE SPECIFIED.
TACK WELD FLANGE TO PIPE END IF REQUIRED.
ON SITE - CUT PIPE TO SUIT AND FULLY WELD FLANGE.
REPAIR CORROSION PROTECTION AFTER WELDING.

AS BUILT
Signed ..... Date 15/5/2014

INSTRUMENT CO-ORDINATES

INSTRUMENT	TAG NUMBER	Y CO-ORDINATE	X CO-ORDINATE	Z CO-ORDINATE
'X'	PI 0 0GDK15 CP501	-57 755.363	+2 623 178.194	+902,390
'Y'	PI 0 0GDK15 CP511	-57 756.619	+2 623 177.469	+902,390

DESIGN NOTES

A. DESIGN PRESSURE :	900 kPaG
B. OPERATING PRESSURE :	300 kPaG
C. TEST PRESSURE (HYDROSTATIC) : SYSTEM TEST ON SITE	450 kPaG
D. TEMPERATURE :	24°C
E. STRESS RELIEF : YES / NO	
F. CORROSION ALLOWANCE :	N/A
G. NDE / NDT : YES / NO	

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D.O.	REV	DATE	** REVISION ** INDEX REFERENCE :	REV BY	CHKD BY	AUTH BY	KKS APP	REFERENCE DRAWINGS
	2	30.09.13	AS BUILT	J.R.	J.D.C.	B.D.	J.V.	0.84/******* (C048-10******) G/LAYOUT
	1	31.10.11	APPROVED FOR CONSTRUCTION	S.E.	J.D.C.	B.D.	J.V.	0.84/4701 (C048-21025) ~ P & I D
	0	20:08:11	ISSUED FOR REVIEW	MF	BR	BD	JV	0.84/4672 (C048-11007) ~ P & I D

DRG REGISTR	15:08:11	S.S.	AUTHORISED FOR ESKOM BY / DATE
DESIGN APPROVED	11:08:11	H.H.	
KKS APP	15:08:11	J.V.	
DQ AUTH	15:08:11	B.D.	
CHKD BY	15:08:11	B.R.	
DRAWN BY	12:08:11	MF	
SCALE	NTS		

MEDUPI POWER STATION
WTP - VACUUM SYSTEM SUPPLY PUMPS
FILTERED WATER DELIVERY PIPE
SHEET 1 of 3

C048-15200

Eskom

0.84/23430 | SPF CODE | SHEET 1 | REV 2

SIZE GROOTTE A1L