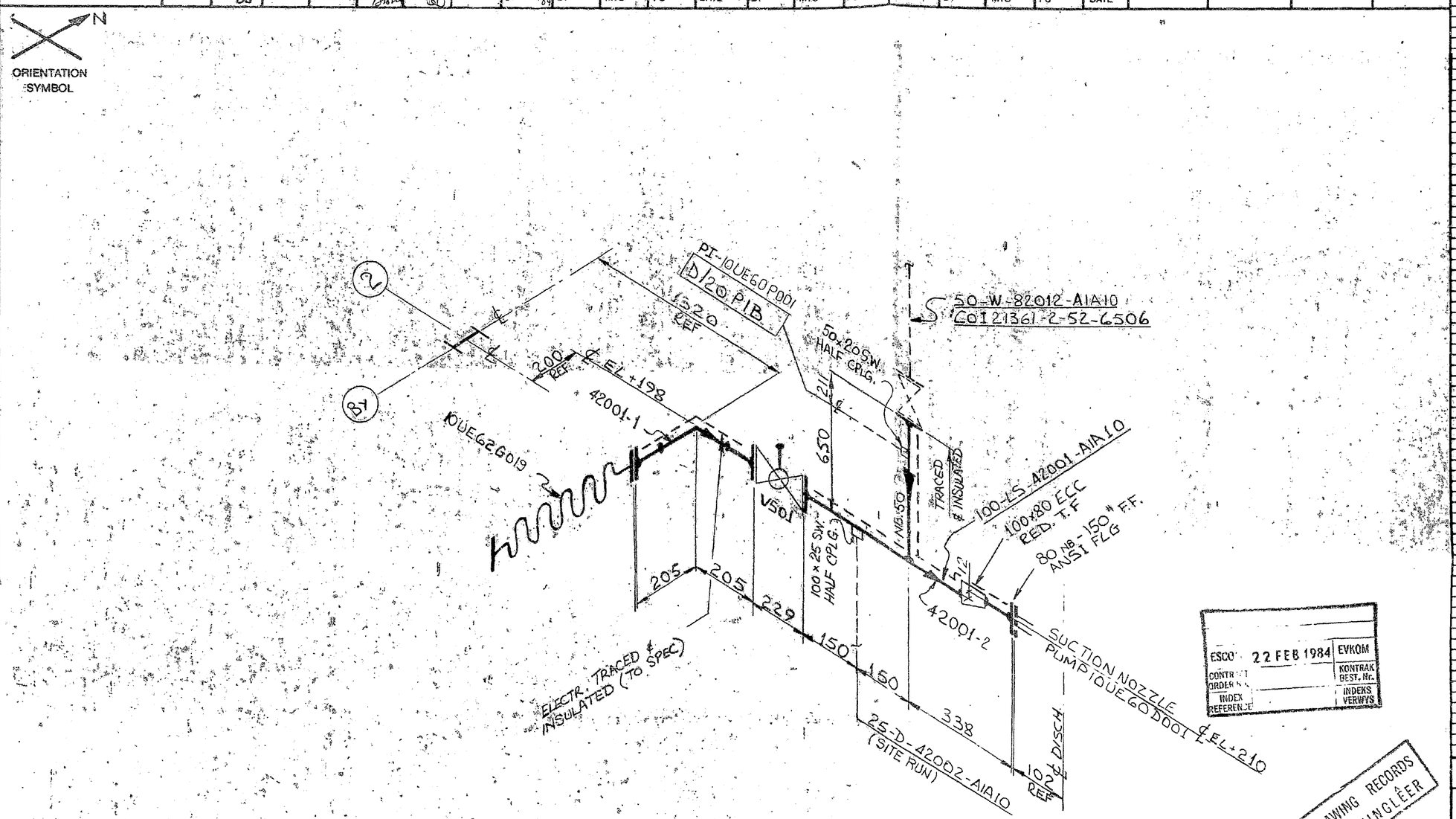
REVISION DATE DESCRIPTION	BY	MTO	PS	DATE
A ISSUED TO MTO & INSTRUMENTN		84		
A ISSUED FOR CONSTRUCTION	Bell	84		84
△				
△				
△				

SHOP PIECE MARK NUMBERS
NOTE TO FABRICATOR ALL PIECE MARKS INDICATED TO BE PREFIXED THUS: - P 6507
42001-1
42002-2

ORIENTATION SYMBOL



ESCO 22 FEB 1984 EVKOM
CONTRACT ORDER NO.
INDEX REFERENCE
KONTRAK BEST. NR.
INDEKS VERWYS

DRAWING RECORDS TEKENINGLEER

Rv 1

0631/2075

ITEM No.	TYPE OF MAT'L	SIZE	No. REQUIRED Final	Rev.	Rev.	DESCRIPTION OF MATERIAL
1	Valves	100	1			V501 BALL VALVE
2		20	1			V501 BALL VALVE
3						
4						
5						
6						
7						
8						
9	Caps					
10						
11						
12	Couplgs HALF	50x20	1			BS 3799 C.S. SW 6000#
13		100x25	1			" " " " "
14	Ells 90°	100	1			CS BS1640 PT3 SEAM. API 5L GR.B SCH.40
15						
16						
17						
18						
19						
20						
21	Tees					
22						
23						
24						
25	Reduce ECC	100x	1			C.S. BS 1640 PT 3 SEAM. API
26		80				5L GR.B SCH.40
27						
28						
29						
30	Nipples	20	1			API 5L SMLS SCH 160
31						PBE
32						
33	Flanges SO	100	3			CS DIM. TO BS 4504 MTL TO
34	SO	50	1			BS 1503 161 GR 26A OR BS
35	SO	20	1			1501-151 GR. 23A
36	SO	80	1			CS 150# FF ANSI/BS 1501-
37						-151 GR 23A
38						
39						
40						
41						
42	Unions					
43						
44	Plugs					
45						
46	Bolts C/W	M16	32			65LG CS MACH. SABS 135
47	NUTS &	M16	4			8016 " " " "
48	WASHERS	M12	55			5516 " " " "
49						
50						
51						
52						
53	Gasket	100	4			1.6 THK CAF FULL FACE BS
54		20	1			1832
55		80	1			1.6 THK CAF FULL FACE 150#
56						ANSI B16.5
57						
58						
59						
60	Pipe	50	0.9			C.S. SEAM. API 5L GR.B
61						SCH. 80
62		100	0.9			C.S. SEAM. API 5L GR.B
63						SCH. 40
64		80	0.2			C.S. SEAM. API 5L GR.B
65						SCH. 40
66						
67						
68						
69						
70						
71						
72						
73						
74						
75						

PIPE SUPPORT MATERIAL

ITEM No.	No. OFF	ENG. STD OR DWG. No	ITEM No.	No. OFF	ENG. STD. OR DWG. No.

CONTRACT N° 1-1531-21361

PIPING DETAILS

ESCOM WATER TREATMENT COMPLEX

LETABO POWER STATION WEST

65-42001-A-A1A10

Bevelled End	B.E.	Flat Face	F.F.	Schedule	Sch.
Blind	Bld.	Face to Face	F. to F.	Small End Plain	S.E.P.
Bottom of Pipe	B.O.P.	Flange	Flg.	Slip on	S.O.
Butt Weld	B.W.	Field Weld	F.W.	Swage	Swg.
Chain Operated	Ch. Op.	Hose Connection	H.C.	Short Radius	S.R.
Cont. on Dwg.	C.O.D.	Horizontal	Hor.	Socket Weld	S.W.
Cont. on Isometric	C.O.I.	Inside Diameter	I.D.	Seamless	Sml.
Connection	Conn.	Incl'd Gasket	I.G.	Threaded End	T.E.
Coupling	Cplg.	Large End Plain	L.E.P.	Valve	V.
Concentric	Conc.	Outside Diameter	O.D.	Vertical	Vert.
Diameter	Dia.	Radius	R.	Weld Neck Flange	W.N.
Drain	Dr.	Reducer	Red	Working Point	W.P.
Drawing	Dwg.	Raised Face	R.F.	Plain End	P.E.
Eccentric	Ecc.	Ring Type Joint	R.T.J.	Small End Threaded	S.E.T.
Elevation	Elev.	Sample Conn.	S.C.	Plain Both Ends	P.B.E.
Elbow	Ell.	Screwed	Scrd.	Setting Out Point	S.O.P.

NOTES

1. FOR ARRGT. OF VENTS DRAINS & INST. CONNS.
   SHOWN ☐ SEE DWG. No. 21361-0-51-1
2. ALL DIMENSIONS OF CARBON STEEL PIPING.
   SIZE 2" AND BELOW ARE TO BE FIELD CHECKED BEFORE FABRICATION.
3. UNLESS OTHERWISE NOTED. -
   ALL GASKETS SHALL BE 1,6 THICK
   ~~ALL FLANGES SHALL BE WELD NECK~~
   ~~ALL TEES SHALL BE STRAIGHT SIZE~~
   ALL WELD ELLS SHALL BE LONG RADIUS
   ~~ALL PULLED BENDS SHALL BE 3D RADIUS~~

STEAM TRACING

STEAM TRACING DETAILS SHALL BE TO ENG. STD.

- ○ STEAM FEED MANIFOLD TIE IN No.
- □ CONDENSATE MANIFOLD TIE IN No.
- ⊟ STEAM TRAP No.

FOR SCHEDULE AND MANIFOLD DETAILS SEE DRAWING No.

SUB HEADER DRAWING No.

BRANCH REINFORCEMENT

THE TABLE BELOW INDICATES THE HEIGHT OF FILLET WELD OR THE WIDTH OF THE REINFORCING PAD AT BRANCHES MARKED THUS: - ⊥|⊥

AT ALL OTHER BRANCHES USE 10mm (3/8") FILLET WELD.

REINFORCING PADS TO BE MADE FROM SAME MATERIAL AND THICKNESS AS HEADER UNLESS OTHERWISE STATED.

HEADER	BRANCH	REINF. PAD OR WELD SIZE

LINE No. Size	No.
100	42001

MATERIAL: CARBON STEEL

STRESS CALC. No.: N/A

PIPING ARRGT. No.: 21361-0-51-65

MODEL BASE No.: N/A

CHECKED TO FLOWSHEET No.: 21361-0-50-402

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M.T.O.	MV	13.09.83	P S/STRESS
DRAWN BY	ADK	5/8/83	21361-2-52-6507 REV. A
CHECKED BY	POTGIETER	22/8/83	

TeamGraphic