

## Appendix D – Utilities Report (4/6)





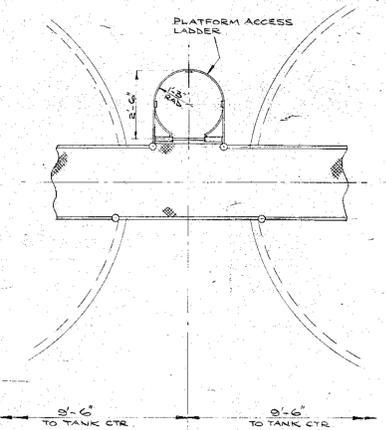


GL-344-D12

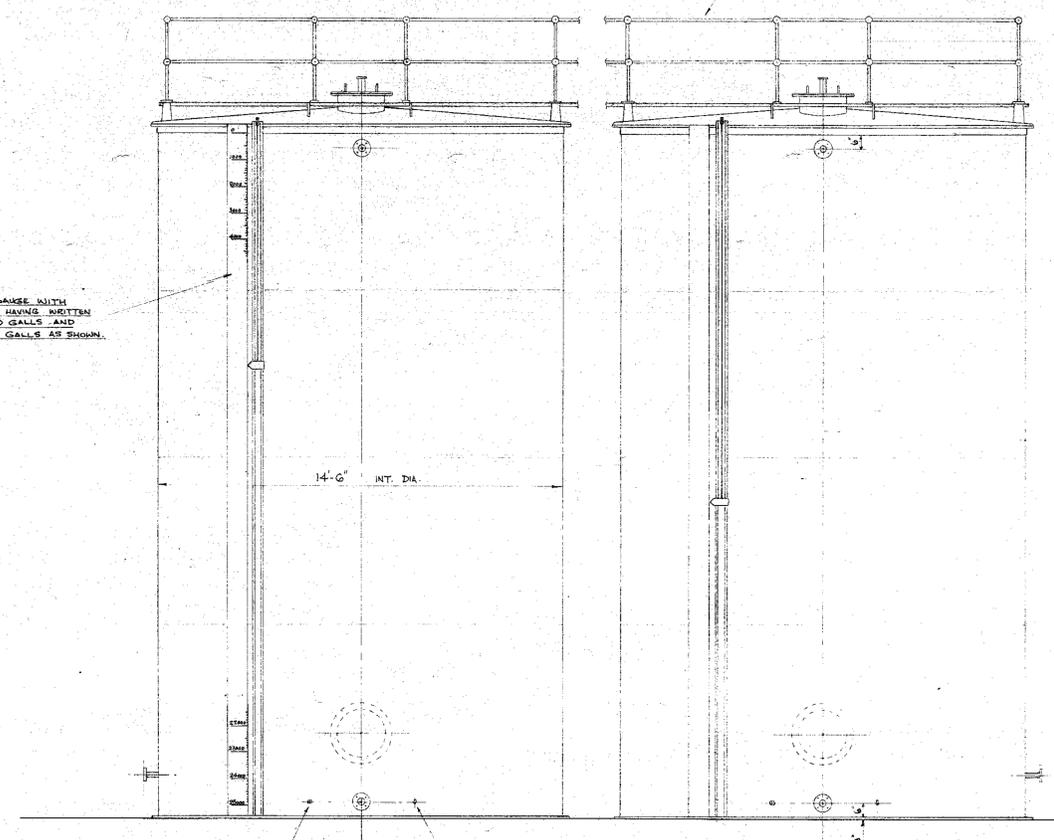
DRAWING NUMBER

CONTRACT DRAWING No 104

DETAIL SHOWING POSITION OF PLATFORM ACCESS LADDER

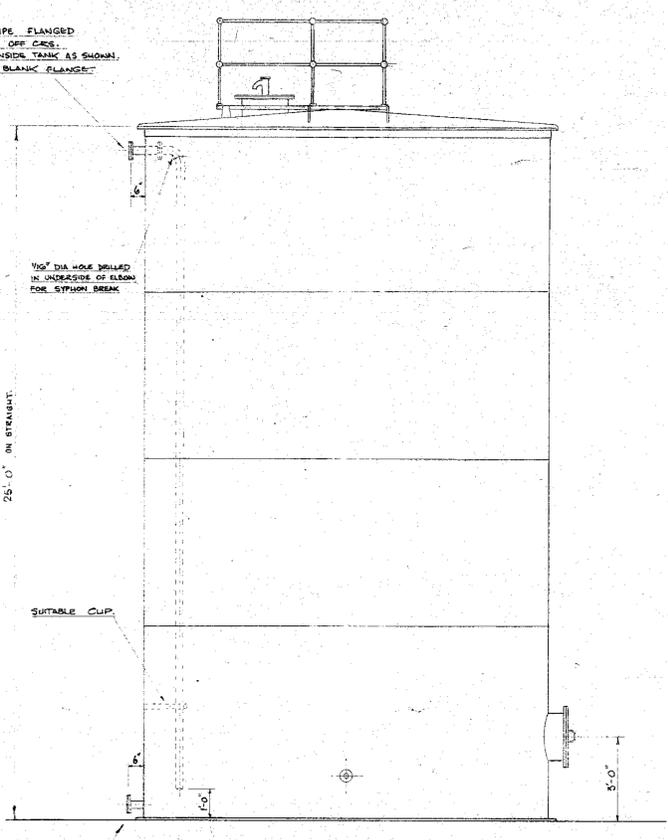


VAREC CONTENTS GAUGE WITH INDICATOR BOARD. HAVING METRIC GRADUATIONS OF 1000 GALLS AND SUB DIVISIONS OF 100 GALLS AS SHOWN.

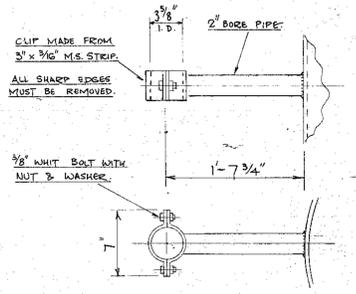


3/4" BSP SOCKET (FOR K.D.G. CONTENTS GAUGE) FITTED WITH PLUG.  
EARTHING CONNECTION (DETAILS TO BE AGREED)

VIEW ON ARROW 'A'

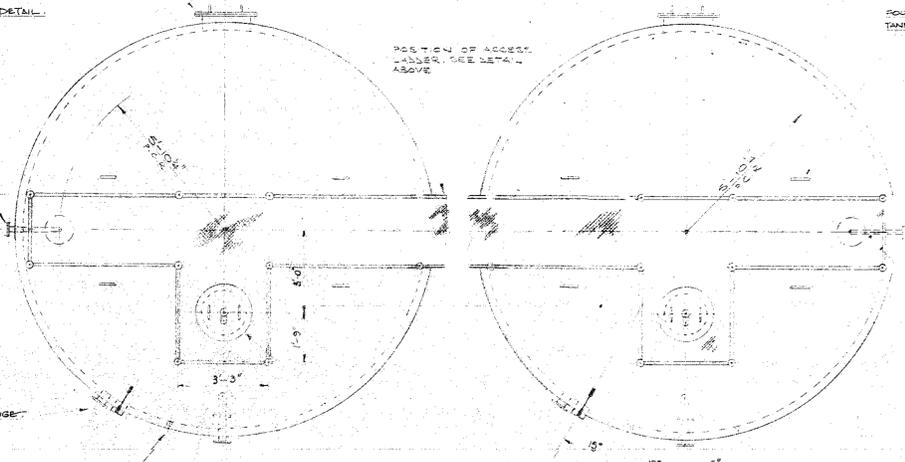


VIEW ON ARROW 'A'

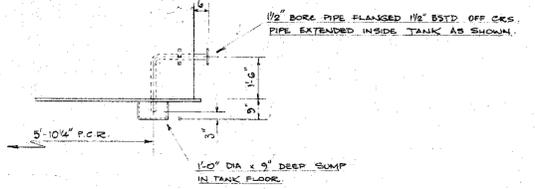


DETAIL OF PIPE CLIP

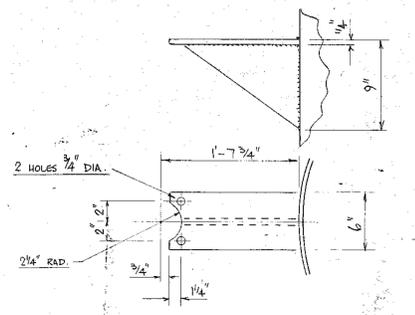
20" DIA. MANHOLE TO HAVE OIL RESISTANT GASKET AND LIFTING HANDLES ON COVER PLATE.



FOUR LIFTING LUGS ON EACH TANK. DRILLED 2" DIA. HOLES.



DETAIL OF SLUDGE DRAW-OFF

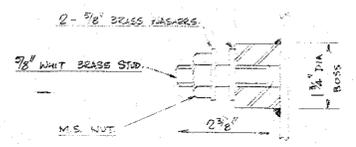


DETAIL OF VALVE SUPPORT

FOR CONSTRUCTION

NOTES

- CONSTRUCTION: FULLY WELDED M.S. (ALL PIPES PASSING THROUGH TANK AND MANHOLE NECKS TO BE RE-INFORCED)
- INSIDE FINISH: WIRE BRUSHED (AND BRUSHINGS REMOVED)
- OUTSIDE FINISH: WIRE BRUSHED AND GIVEN ONE COAT RED LEAD PRIMER. TANK BASE GIVEN TWO COATS BLACK BITUMASTIC.
- MARKING: TANKMAKER TO MARK TOP FACE OF BASE RIM ON BOTH CENTRE LINES TO FACILITATE EASE OF INSTALLATION.



DETAIL OF EARTHING CONNECTION

26244



DRAWING FINALISED	AC	16.5.65	2
ACCESS LADDER AND SLUDGE SUMPS RE-DESIGNED	AC	23.6.68	1
	AC	23.4.69	1
REVISION	DRN/CW/D/CM/ENG/CLT	DATE	ISS.

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

MMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT.  
DETAIL OF DIESEL FUEL OIL-STORAGE TANK (25000 GALLS EACH)

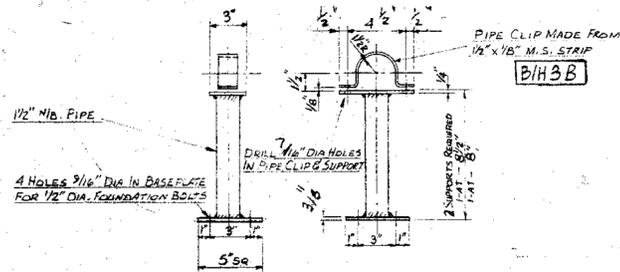
GEORGE WIMPEY & CO. LTD.  
DEPT. 1, M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
3/8" = 1'-0"	GL-344-D12	2

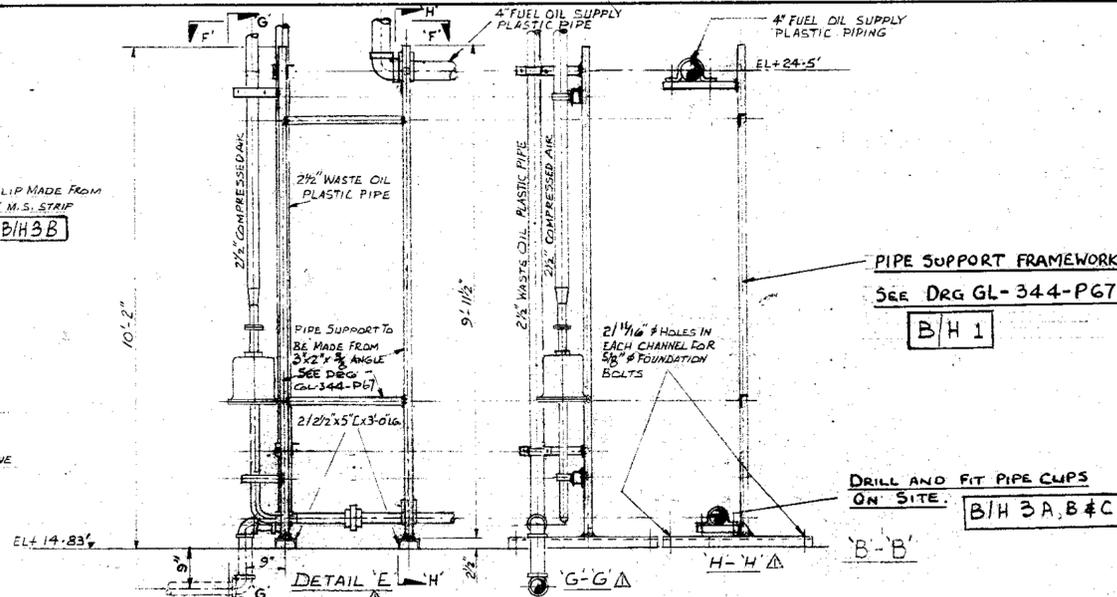
HL-344-P63

DRAWING NUMBER

CONTRACT DRAWING N°

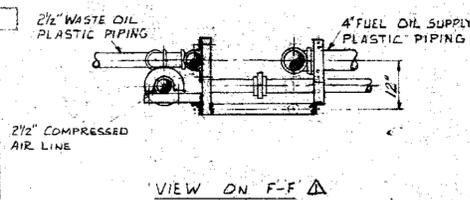
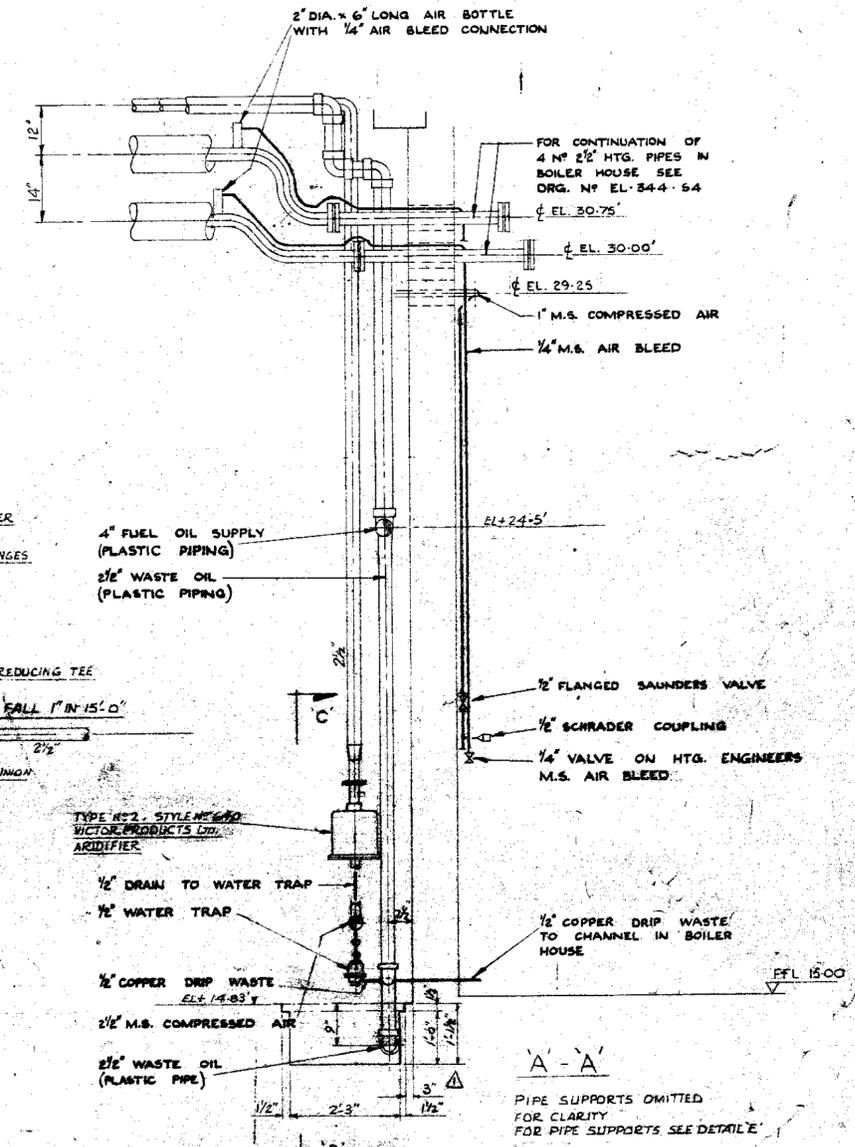


PIPE SUPPORTS FOR 2 1/2" COMPRESSED AIR LINE  
 DETAIL 'D' 2 REQUIRED  
 B/H 2A & B  
 SEE DRG. GL-344-P67

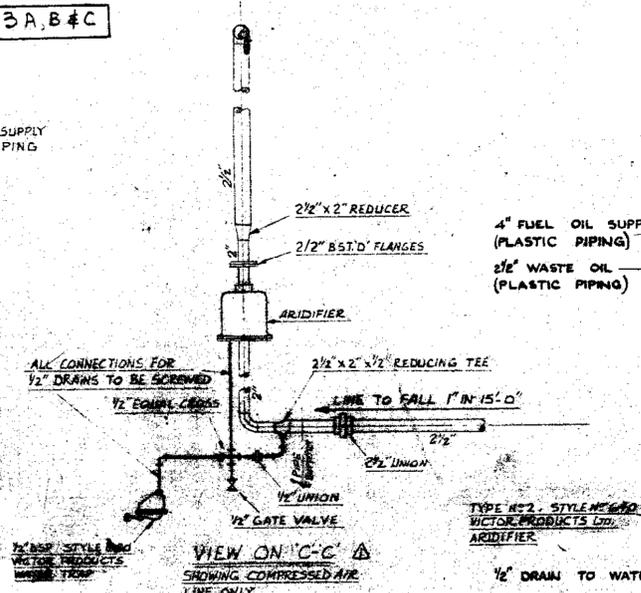


PIPE SUPPORT FRAMEWORK  
 SEE DRG. GL-344-P67  
 B/H 1

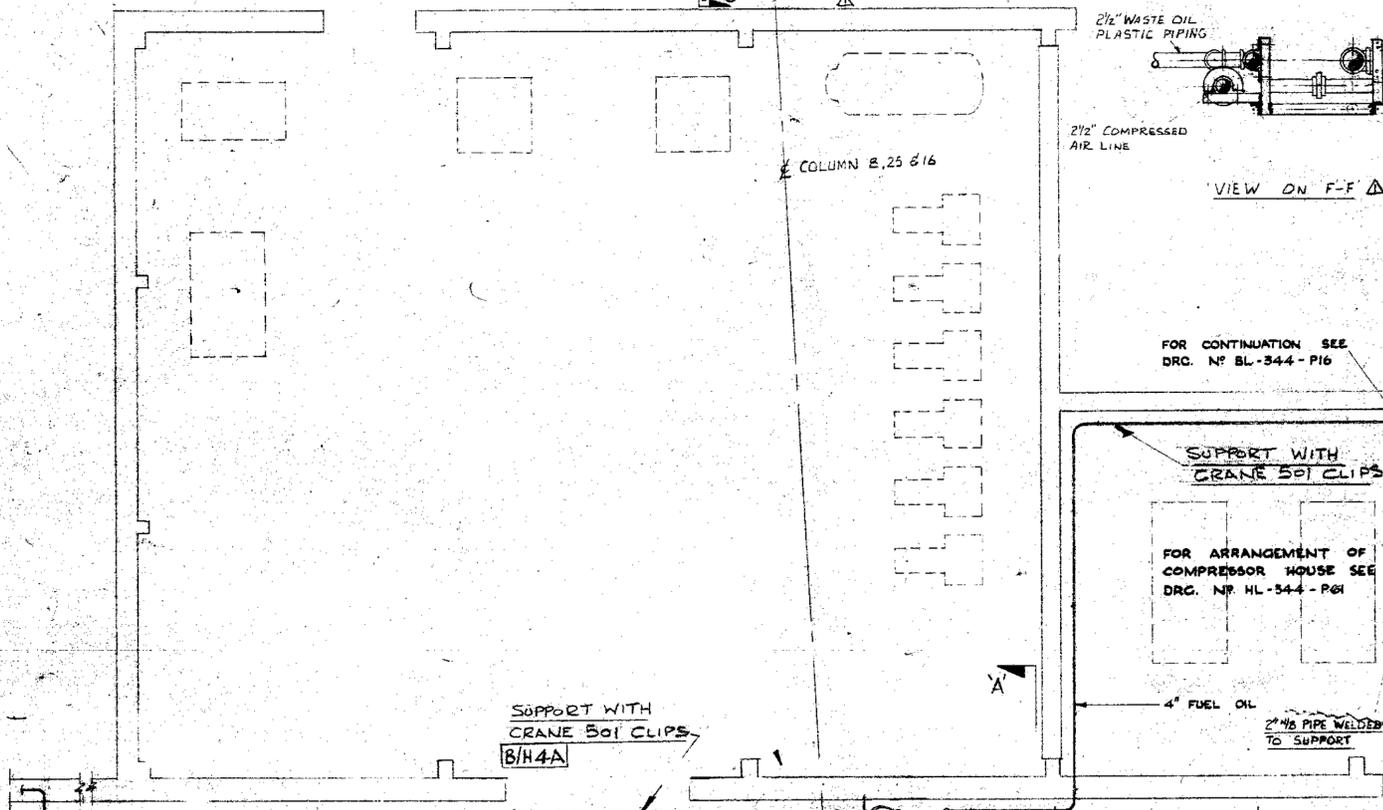
DRILL AND FIT PIPE CLIPS  
 ON SITE.  
 B/H 3A, B & C



VIEW ON F-F



VIEW ON C-C  
SHOWING COMPRESSED AIR LINE ONLY



SUPPORT WITH CRANE BOI CLIPS  
 B/H 4A

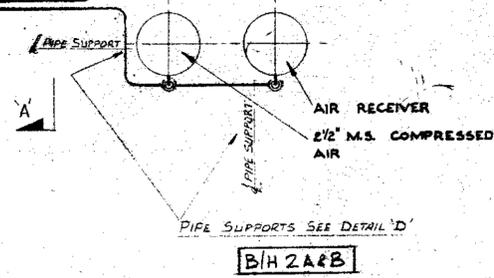
SUPPORT WITH CRANE BOI CLIPS  
 B/H 4C

FOR ARRANGEMENT OF COMPRESSOR HOUSE SEE DRG. N° HL-344-P61

B/H 4B

1/2" DRIP WASTE FROM TRAP  
 3" ARIDIFIER  
 2 1/2" M.S. COMPRESSED AIR  
 2 1/2" WASTE OIL (PLASTIC PIPE)  
 4" FUEL OIL (PLASTIC PIPE)

5" & 2 1/2" M.S. HEATING PIPES



B/H 2A & B

FOR CONTINUATION OF THESE SERVICES SEE DRG. N° GL-344-M02

GENERAL PIPING SPECIFICATION

PIPE: MILD STEEL - BLACK HEAVYWEIGHT TUBE TO BS. 1367 SOLID DRAWN WITH WELDED JOINTS.  
 COPPER TUBE - LIGHT GAUGE TUBE TO BS. 659  
 PLASTIC TUBE - HEAVY GAUGE UNPLASTICIZED P.V.C. TO BS. 3506 1965  
 VALVES: COMPRESSED AIR - SAUNDERS C.I. FLANGED TYPE 'A' DIAPHRAGM  
 MECH. JOINTS: FLANGED TO BS. 10 PART 2, TABLE 'D'  
 GASKETS: 1/16" THK. COMPRESSED ASBESTOS FIBRE  
 FITTINGS: PLASTIC - SOLVENT WELDED  
 MILD STEEL - BLACK BUTT WELDED TO BS 1965  
 AIR COUPLING: SCHRADER HEAVY DUTY CHECK UNITS N° 1461B-12

REFERENCE DRAWINGS

FOR SITE PLAN SEE DRG. N° RL-344-1A2  
 FOR FLOW DIAGRAM SEE DRG. N° EL-344-A1  
 FOR PIPE SUPPORTS DRG. N° GL-344-P67

26244



PIPE SUPPORT DET. NOW SEP. DRWG. P.C.	DATE	ISS.
DETAIL 'A' MODIFIED & DETAILS C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z, AA, AB, AC, AD, AE, AF, AG, AH, AI, AJ, AK, AL, AM, AN, AO, AP, AQ, AR, AS, AT, AU, AV, AW, AX, AY, AZ, BA, BB, BC, BD, BE, BF, BG, BH, BI, BJ, BK, BL, BM, BN, BO, BP, BQ, BR, BS, BT, BU, BV, BW, BX, BY, BZ, CA, CB, CC, CD, CE, CF, CG, CH, CI, CJ, CK, CL, CM, CN, CO, CP, CQ, CR, CS, CT, CU, CV, CW, CX, CY, CZ, DA, DB, DC, DD, DE, DF, DG, DH, DI, DJ, DK, DL, DM, DN, DO, DP, DQ, DR, DS, DT, DU, DV, DW, DX, DY, DZ, EA, EB, EC, ED, EE, EF, EG, EH, EI, EJ, EK, EL, EM, EN, EO, EP, EQ, ER, ES, ET, EU, EV, EW, EX, EY, EZ, FA, FB, FC, FD, FE, FF, FG, FH, FI, FJ, FK, FL, FM, FN, FO, FP, FQ, FR, FS, FT, FU, FV, FW, FX, FY, FZ, GA, GB, GC, GD, GE, GF, GG, GH, GI, GJ, GK, GL, GM, GN, GO, GP, GQ, GR, GS, GT, GU, GV, GW, GX, GY, GZ, HA, HB, HC, HD, HE, HF, HG, HH, HI, HJ, HK, HL, HM, HN, HO, HP, HQ, HR, HS, HT, HU, HV, HW, HX, HY, HZ, IA, IB, IC, ID, IE, IF, IG, IH, II, IJ, IK, IL, IM, IN, IO, IP, IQ, IR, IS, IT, IU, IV, IW, IX, IY, IZ, JA, JB, JC, JD, JE, JF, JG, JH, JI, JJ, JK, JL, JM, JN, JO, JP, JQ, JR, JS, JT, JU, JV, JW, JX, JY, JZ, KA, KB, KC, KD, KE, KF, KG, KH, KI, KJ, KK, KL, KM, KN, KO, KP, KQ, KR, KS, KT, KU, KV, KW, KX, KY, KZ, LA, LB, LC, LD, LE, LF, LG, LH, LI, LJ, LK, LL, LM, LN, LO, LP, LQ, LR, LS, LT, LU, LV, LW, LX, LY, LZ, MA, MB, MC, MD, ME, MF, MG, MH, MI, MJ, MK, ML, MM, MN, MO, MP, MQ, MR, MS, MT, MU, MV, MW, MX, MY, MZ, NA, NB, NC, ND, NE, NF, NG, NH, NI, NJ, NK, NL, NM, NN, NO, NP, NQ, NR, NS, NT, NU, NV, NW, NX, NY, NZ, OA, OB, OC, OD, OE, OF, OG, OH, OI, OJ, OK, OL, OM, ON, OO, OP, OQ, OR, OS, OT, OU, OV, OW, OX, OY, OZ, PA, PB, PC, PD, PE, PF, PG, PH, PI, PJ, PK, PL, PM, PN, PO, PP, PQ, PR, PS, PT, PU, PV, PW, PX, PY, PZ, QA, QB, QC, QD, QE, QF, QG, QH, QI, QJ, QK, QL, QM, QN, QO, QP, QQ, QR, QS, QT, QU, QV, QW, QX, QY, QZ, RA, RB, RC, RD, RE, RF, RG, RH, RI, RJ, RK, RL, RM, RN, RO, RP, RQ, RR, RS, RT, RU, RV, RW, RX, RY, RZ, SA, SB, SC, SD, SE, SF, SG, SH, SI, SJ, SK, SL, SM, SN, SO, SP, SQ, SR, SS, ST, SU, SV, SW, SX, SY, SZ, TA, TB, TC, TD, TE, TF, TG, TH, TI, TJ, TK, TL, TM, TN, TO, TP, TQ, TR, TS, TT, TU, TV, TW, TX, TY, TZ, UA, UB, UC, UD, UE, UF, UG, UH, UI, UJ, UK, UL, UM, UN, UO, UP, UQ, UR, US, UT, UY, UZ, VA, VB, VC, VD, VE, VF, VG, VH, VI, VJ, VK, VL, VM, VN, VO, VP, VQ, VR, VS, VT, VU, VV, VW, VX, VY, VZ, WA, WB, WC, WD, WE, WF, WG, WH, WI, WJ, WK, WL, WM, WN, WO, WP, WQ, WR, WS, WT, WU, WV, WW, WX, WY, WZ, XA, XB, XC, XD, XE, XF, XG, XH, XI, XJ, XK, XL, XM, XN, XO, XP, XQ, XR, XS, XT, XU, XV, XW, XX, XY, XZ, YA, YB, YC, YD, YE, YF, YG, YH, YI, YJ, YK, YL, YM, YN, YO, YP, YQ, YR, YS, YT, YU, YV, YW, YX, YY, YZ, ZA, ZB, ZC, ZD, ZE, ZF, ZG, ZH, ZI, ZJ, ZK, ZL, ZM, ZN, ZO, ZP, ZQ, ZR, ZS, ZT, ZU, ZV, ZW, ZX, ZY, ZZ		

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)  
 IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT  
 ARRANGEMENT OF COMPRESSED AIR SERVICE TO BOILER HOUSE BLOCK

GEORGE WIMPEY & CO. LTD.  
 DEPT. 1, M. & E. - ENGINEERING DIVISION,  
 FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
1/4" = 1/2" To 1:50	HL-344-P63	2

FOR CONSTRUCTION

GENERAL PIPING SPECIFICATION

PIPE: BLACK MILD STEEL HEAVYWEIGHT TUBE TO BS 1587  
 SOLID DRAWN WITH WELDED JOINTS.  
 FITTINGS: BLACK BUTT WELDED TO BS 1965  
 FLANGES: M.S. TO BS 10 PART 2 TABLE 'D' SLIP-ON FLAT FACE  
 GASKETS: COMPRESSED ASBESTOS  
 VALVES: SAUNDERS FLANGED C.I. TYPE 'A'  
 S' GRADE DIAPHRAGM  
 AIR COUPLINGS: SCHRADER HEAVY DUTY CHECK UNITS  
 NO 140/B-12

REFERENCE DRGS.

FOR SITE PLAN SEE DRG. NO RL-344-A2  
 FOR FLOW DIAGRAM SEE DRG. NO EL-344-A1  
 FOR DETAILS OF PIPE SUPPORTS SEE DRG. NO BL-344-P

NOTE  
 USE CRANE SOI CLIPS TO SUPPORT  
 COMPRESSED AIR LINES

24 OFF 1/2" NB  
 12 OFF 1" NB



REVISION	DRN	CHKD	ENGLT	DATE	ISS.
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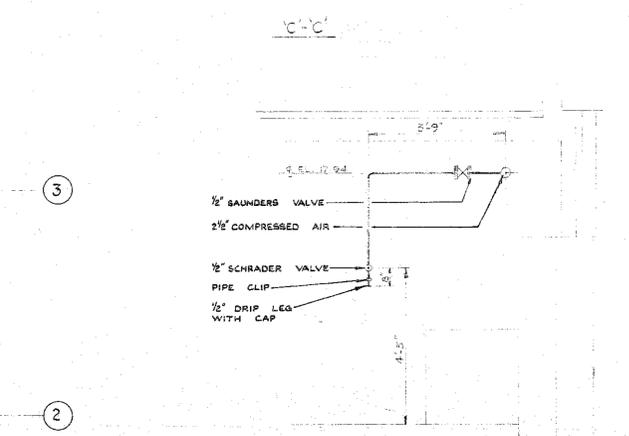
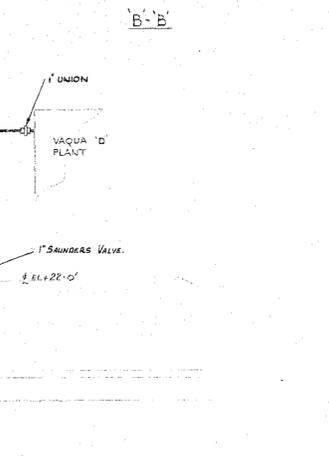
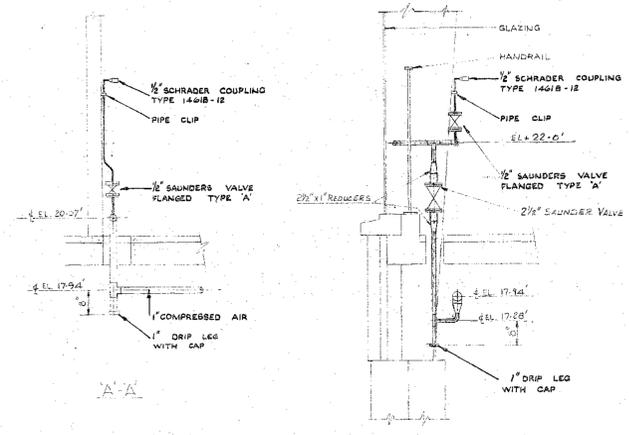
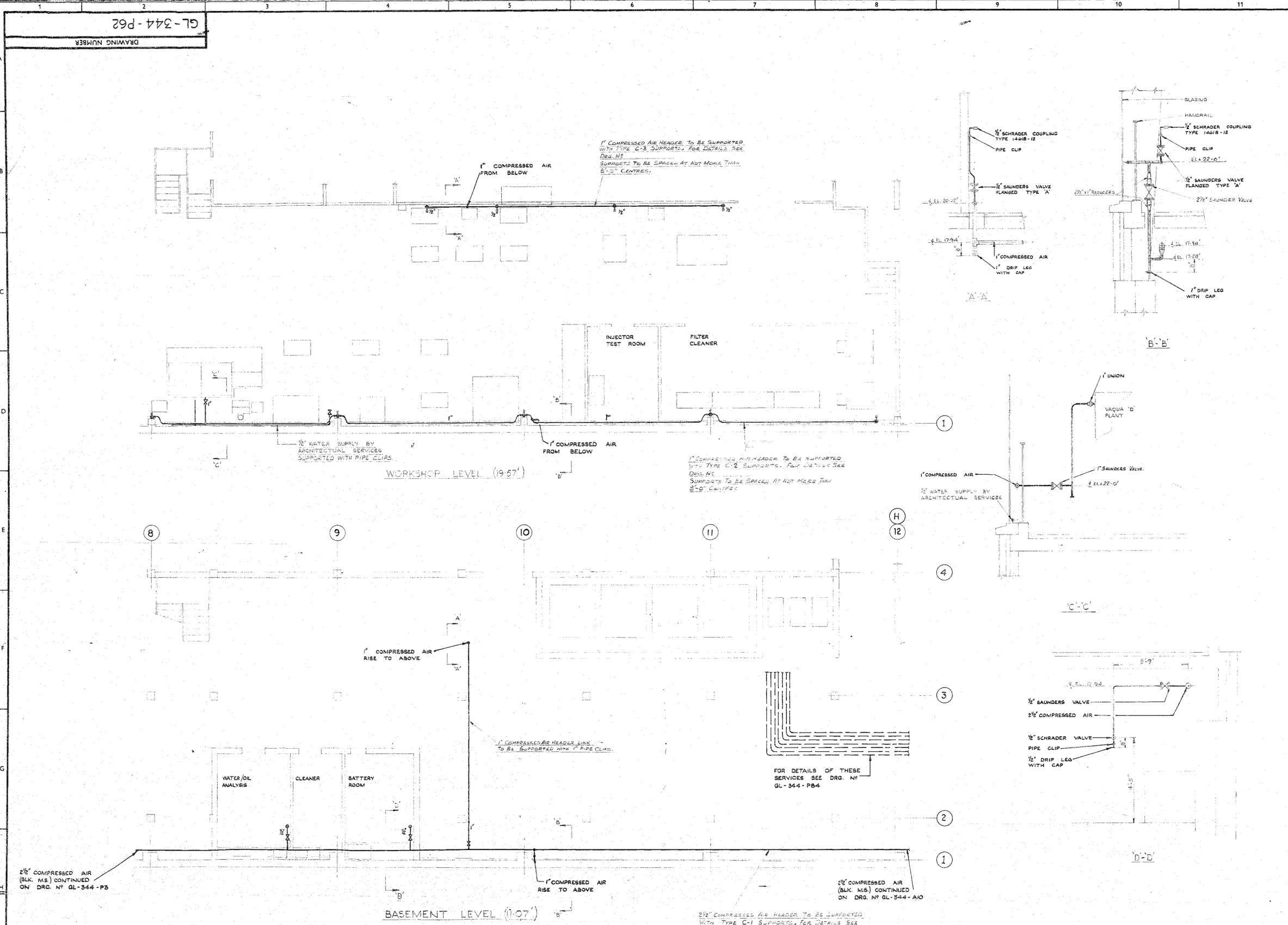
CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT  
 ARRANGEMENT OF COMPRESSED AIR  
 SERVICE THROUGHOUT CENTRE BLOCK

GEORGE WIMPEY & CO. LTD.  
 DEPT. 1, M. & E. ENGINEERING DIVISION,  
 FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

FOR CONSTRUCTION

SCALE	DRAWING NUMBER	ISSUE
1/4" = 1'-0"	GL-344-P62	○



26244

GL-344-P11

DRAWING NUMBER

CONTRACT DRG. NO 128

SECTION A-A

SECTION B-B

GENERAL PIPING SPEC. PIPE 'CHEMIDUS' HEAVY GAUGE UNPLASTICISED P.V.C. TO B.S. 1556 1956 1952 VALVES, SANDERS C.I. FLANGED TYPE 'A' DIAPHRAGM, NON-RETURN CRANE C.I. FLANGED TYPE F.491. MESH JOINTS, FLANGED TO B.S. 10 PART 2 TABLE 'B' BASKETS. 1/4" THK. COMPRESSED ASBESTOS FIBRE. ASSEMBLY OF PIPEWORK & FITTINGS BY SOLVENT WELDING. PIPEWORK AT OFF LOAD POINTS TO BE M.S. SPUD DRAWING HEAVYWEIGHT TO B.S. 1547 WITH M.S. FLANGES TO B.S. 10 PART 2 TABLE 'B' SLIP ON FLAT FACE. FITTINGS BUTT WELD TO B.S. 1562.

NOTE  
THESE PIPE STRAPS TO BE MADE FROM 1/2" x 1/8" PLAT STEEL, APPROX. NO. OFF EACH REQUIRED AS FOLLOWS:  
2 1/2" DIA. = 10.  
4" DIA. = 25.  
FOR DETAILS OF THESE CLIPS SEE DRG. CL. 344-H3.

DETAIL OF PLINTH FOR OFF LOAD SUPPORT. SCALE: 3/8" TO 1 FOOT.

ELEVATION ON FUEL OIL STORAGE TANKS. IN DIRECTION OF ARROW 'A'. (FRONT BUND WALL OMITTED FOR CLARITY)

VIEW ON ARROW 'X'

EACH OFF LOAD POINT HAS FLANGED STEEL/PVC CONNECTION IN TRENCH

NOTE - CAPILLARY TUBE LENGTHS REQUIRED FOR K.G. CONTENTS GAUGES 17'-0" AND 152'-0". PIPE SUPPORT DETAILS TO DRG. NO. GL-344-H17.

FLEXIBLE HOSE. FIVE REQD. THIS (4 FOR DRAIN FUEL - 1 FOR LUB.OIL). FOR USE IN CONNECTION WITH EMPTYING OF RAIL TANKER WAGONS.

NO.	DESCRIPTION	DATE	BY	CHECKED
1	ISSUED FOR CONSTRUCTION	12/26/53	W.P.	W.P.
2	REVISED	1/2/54	W.P.	W.P.
3	REVISED	1/2/54	W.P.	W.P.
4	REVISED	1/2/54	W.P.	W.P.
5	REVISED	1/2/54	W.P.	W.P.

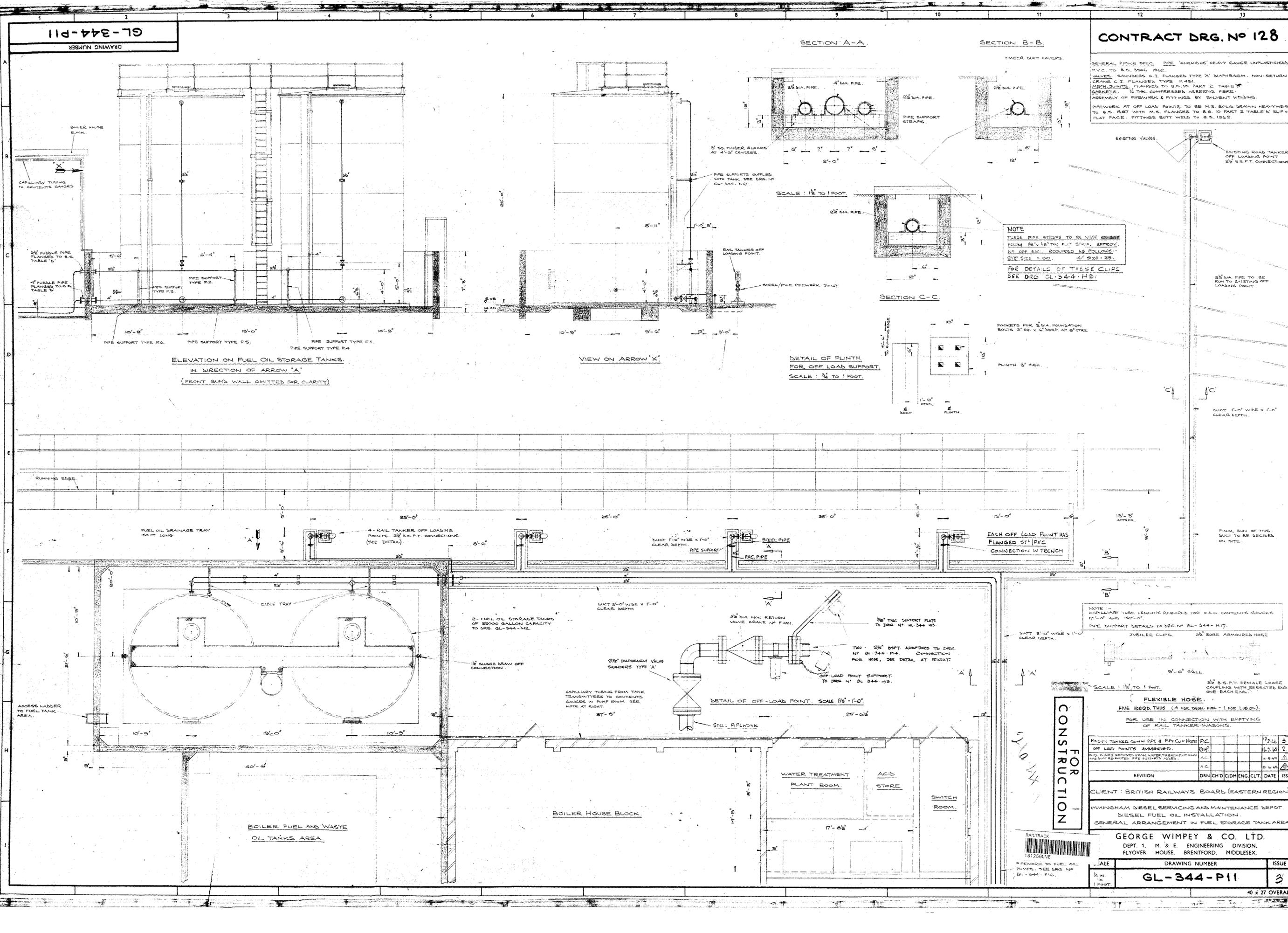
CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

MANCHESTER DIESEL SERVICING AND MAINTENANCE DEPOT. DIESEL FUEL OIL INSTALLATION. GENERAL ARRANGEMENT IN FUEL STORAGE TANK AREA.

GEORGE WIMPEY & CO. LTD. DEPT. 1. M. & E. ENGINEERING DIVISION, FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

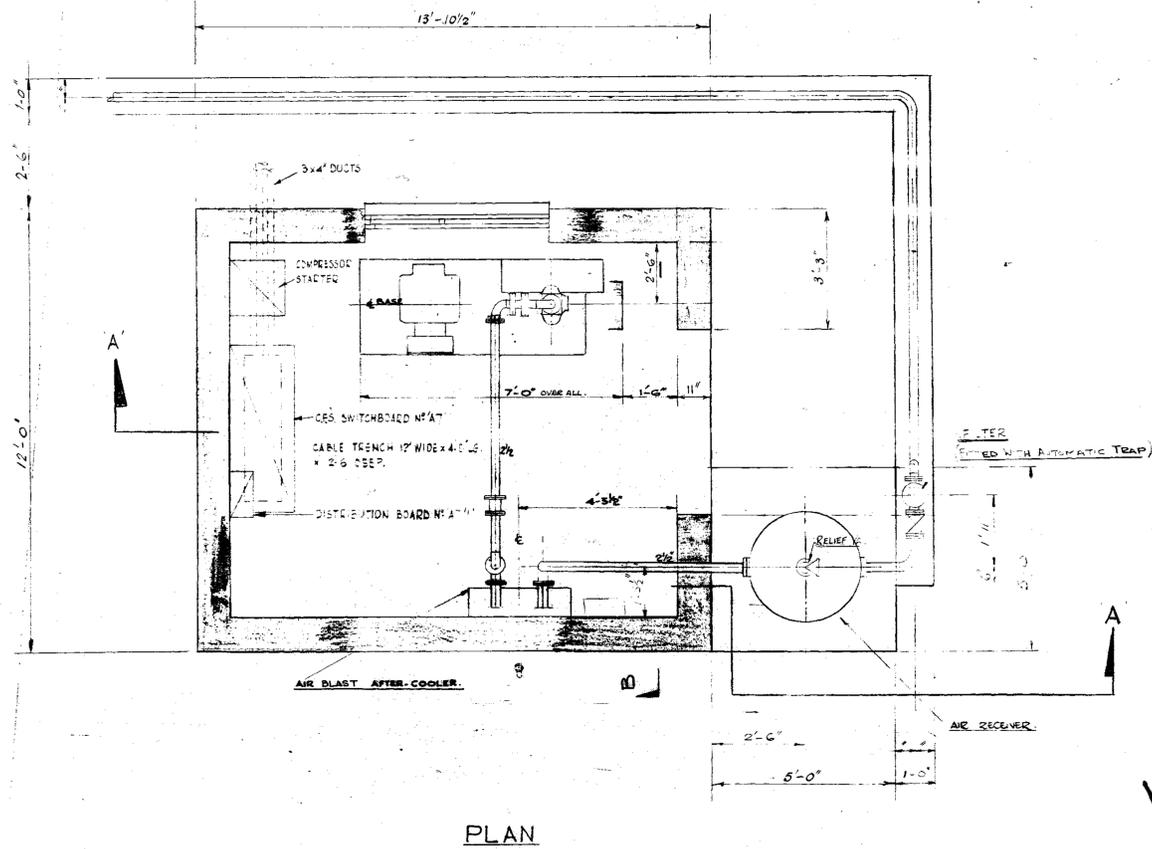
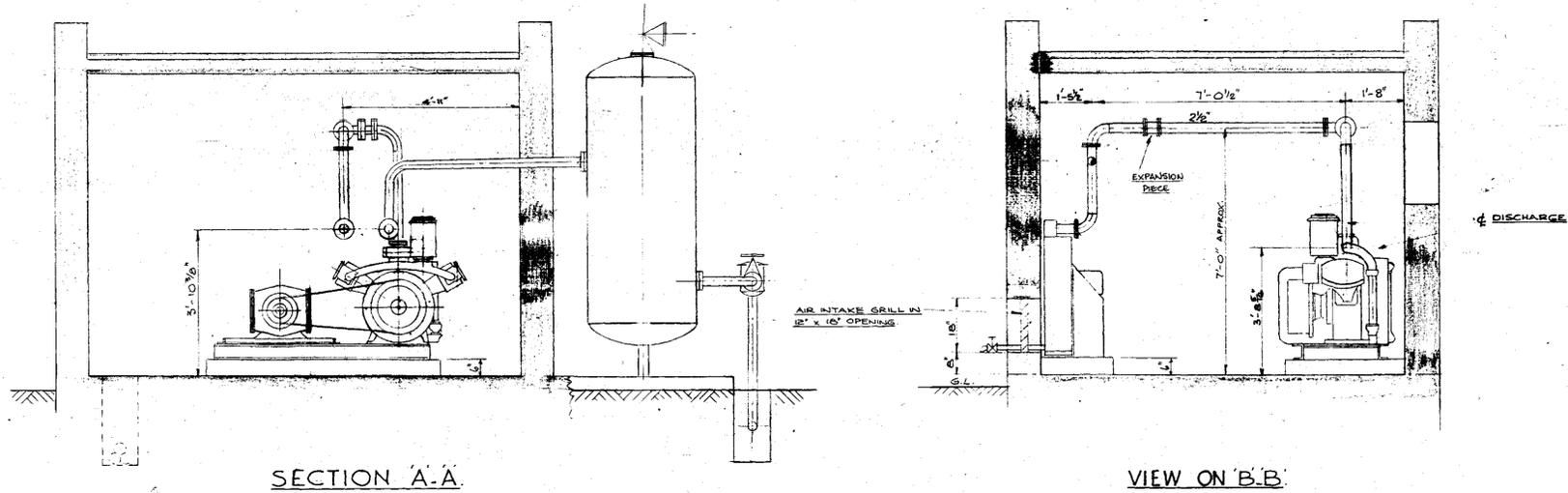
SCALE	DRAWING NUMBER	ISSUE
1/2" = 1 FOOT	GL-344-P11	3

40 x 27 OVERALL



GL-344-P41

DRAWING NUMBER



FOR CONSTRUCTION



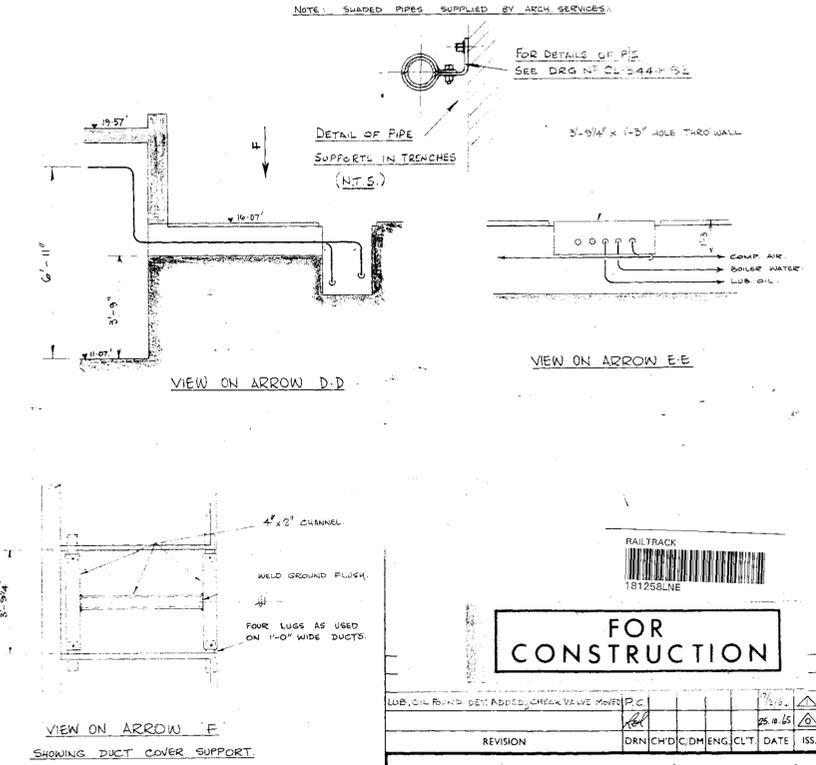
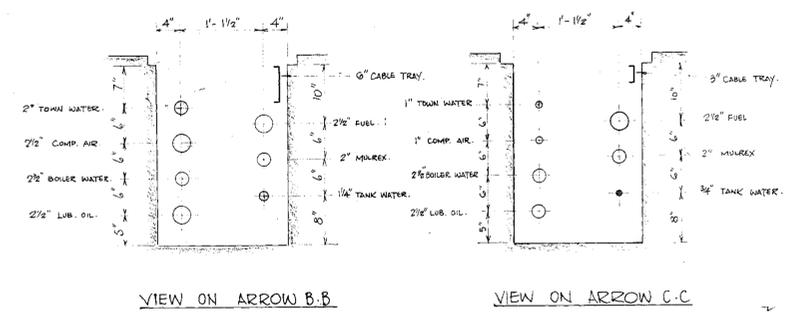
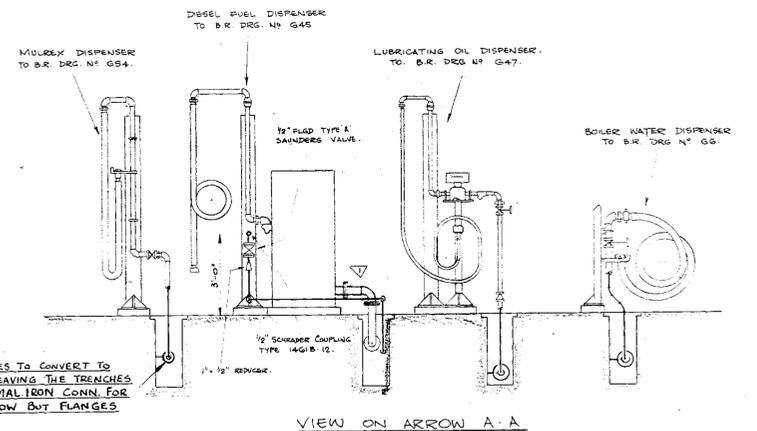
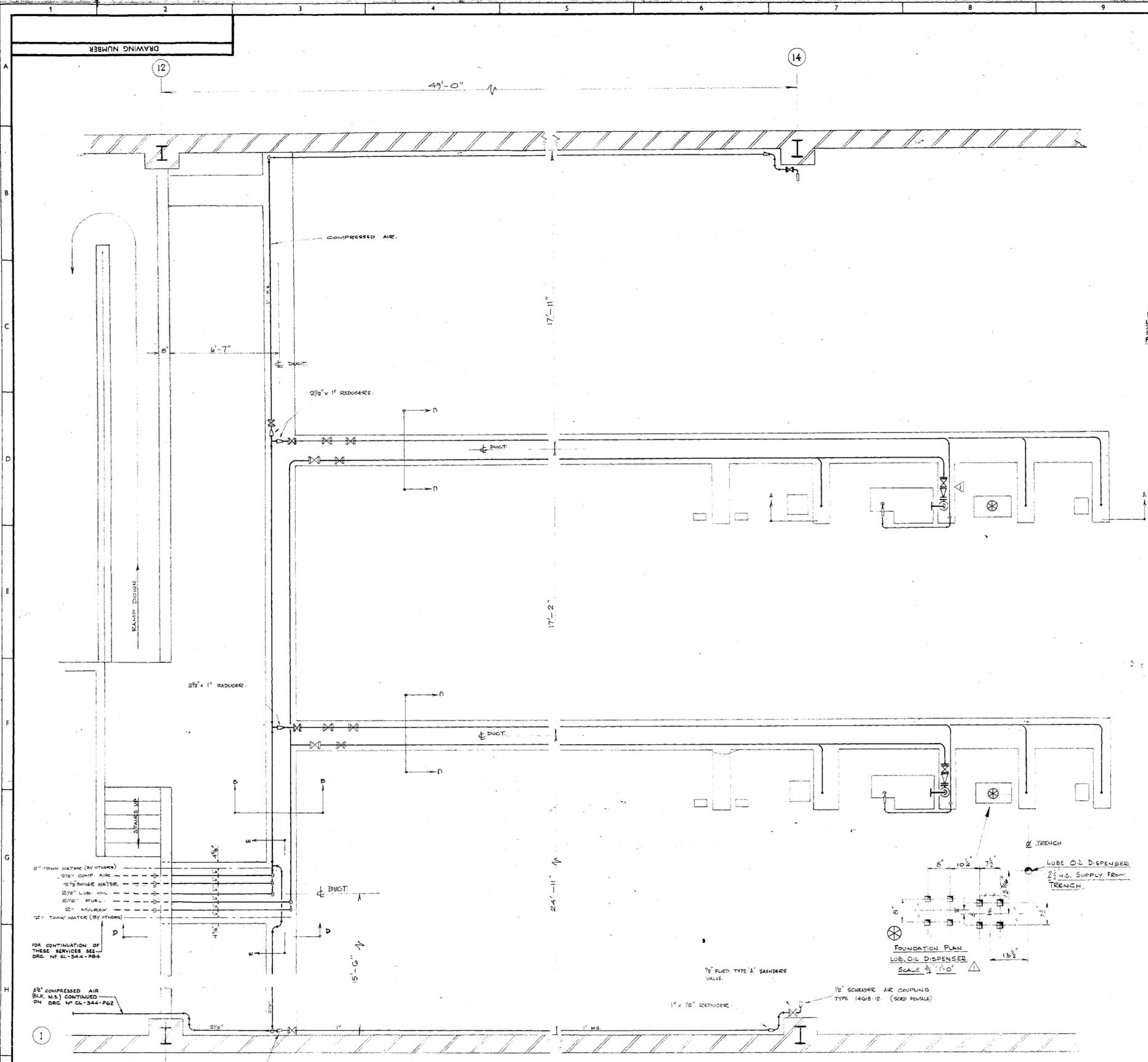
ADD FILTER, MODIFY TRENCH TO SUIT	P.C.	15.7.66	
	DRN	25.6.51	
REVISION	DRN/CHD/C/D/ENG./CLT./DATE	ISS.	

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT.  
ABRASIVE FINES COMPRESSOR HOUSE.  
PIPING ARRANGEMENT.

GEORGE WIMPEY & CO. LTD.  
DEPT. 1.- M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

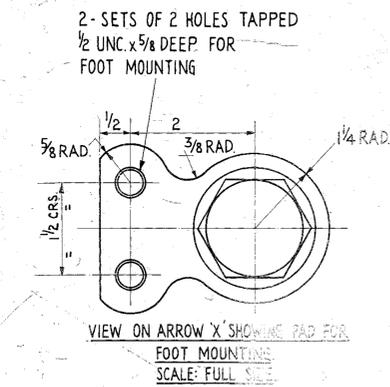
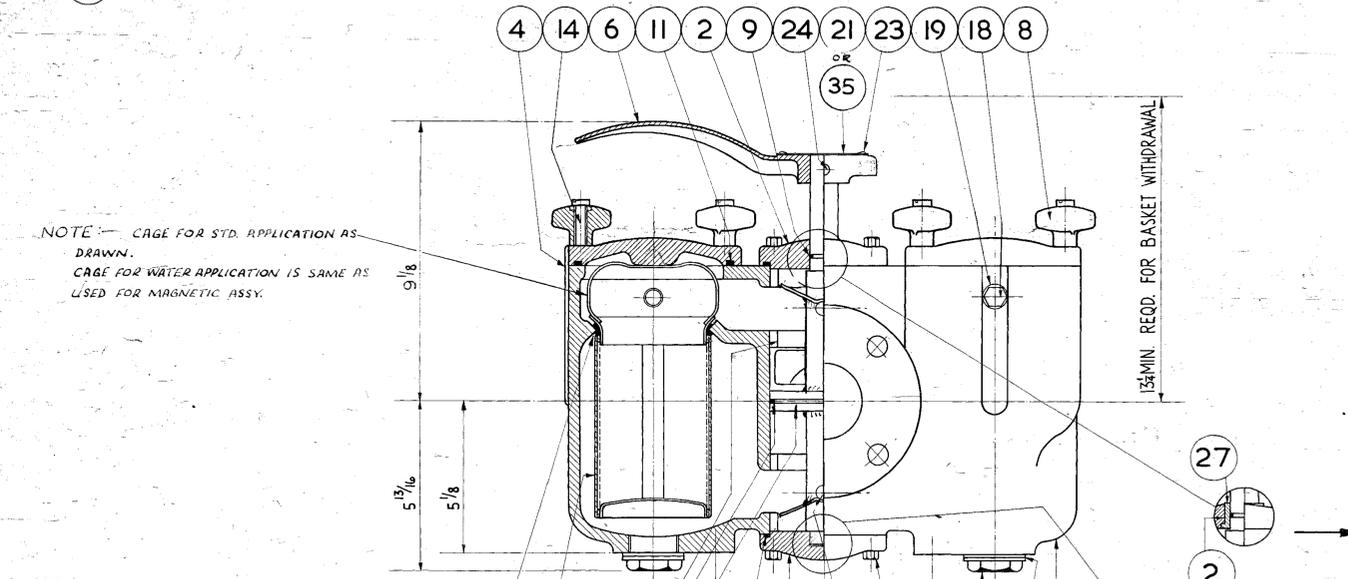
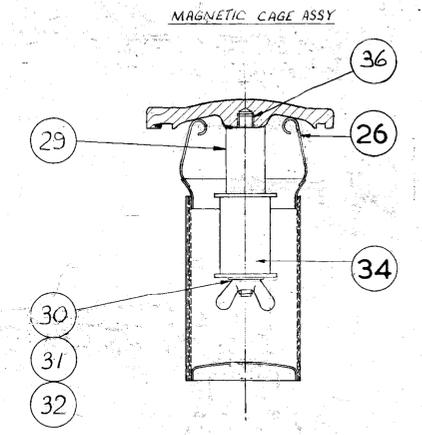
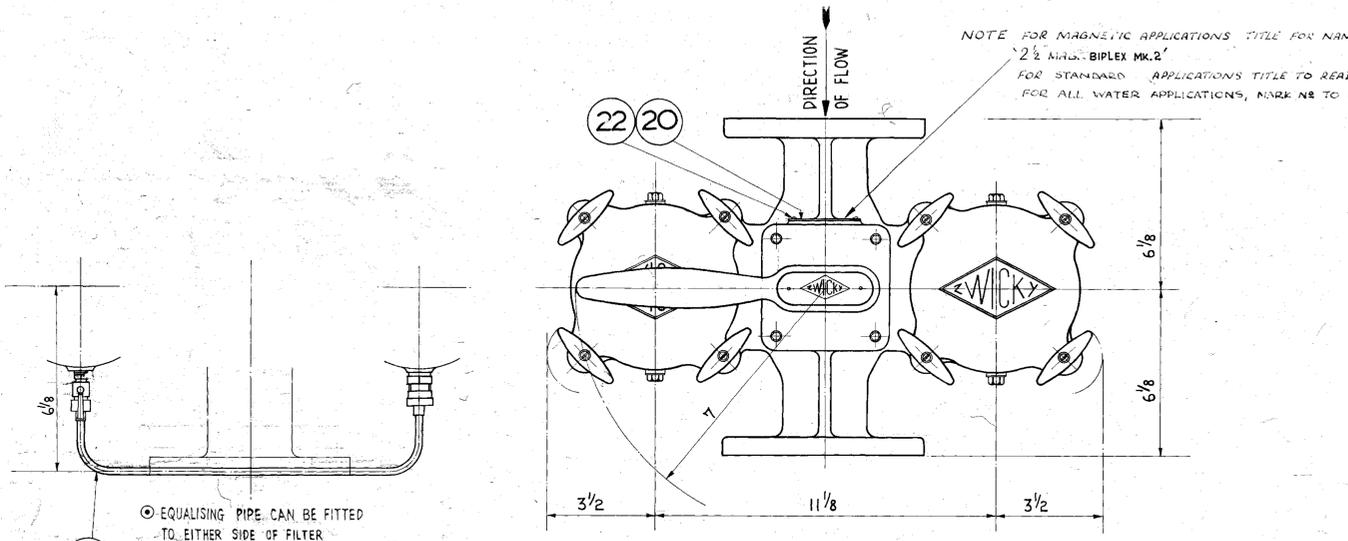
SCALE	DRAWING NUMBER	ISSUE
1/2" = 1 FT.	GL-344-P41	2





THIRD ANGLE PROJECTION

ALL SHARP EDGES AND BURRS TO BE REMOVED



FLANGE DETAILS		NOT MACHINED	TABLE 'C'	TABLE 'D'	TABLE	TABLE 'H'	CLASS 125 A.S.A. OR B.S. 1560	CLASS 150 F.F. A.S.A. OR B.S. 1540
ALL	STOCK Bk. No. F. 2780	F. 2782	F. 2782	F. 2784	F. 2784	F. 2784		
FERROUS	DRAWING No. 12387/F-U	12387/F-U	12387/F-D	12387/F-H	12387/F-H	12387/F-H	12387/F-125	12387/F-150
WATER	STOCK Bk. No. F. 4057	F. 4057	F. 4058	F. 4059	F. 4059	F. 4059		
APPLICATION	DRAWING No. 12387 W-U	12387 W-U	12387 W-D	12387 W-H	12387 W-H	12387 W-H	12387/W-125	12387/W-150
MAGNETIC (STD)	STOCK Bk. No. F. 4186	F. 4186	F. 4187	F. 4188	F. 4188	F. 4188		
DRAWING No. 12387/M-U	12387/M-U	12387/M-U	12387/M-D	12387/M-H	12387/M-H	12387/M-H	12387/M-125	12387/M-150
MAGNETIC (WATER)	STOCK Bk. No. F. 4189	F. 4189	F. 4190	F. 4191	F. 4191	F. 4191		
DRAWING No. 12387/MW-U	12387/MW-U	12387/MW-U	12387/MW-D	12387/MW-H	12387/MW-H	12387/MW-H	12387/MW-125	12387/MW-150

NOTES:  
 TEST PRESSURE 500 P.S.I.  
 MATERIALS FOR ITEM MARKED THUS \* TO BE SPECIFIED AS REQUIRED.  
 ITEMS MARKED THUS © SEE EQUALISING PIPE.  
 WORKING PRESSURE 250 P.S.I. (NON-SHOCK)

NO. OFF	ITEMS PER ASSY	ITEM STOCK NO.	DRAWING NO.	DESCRIPTION	MATERIAL	FINISH	SP.
1	1	B.47	12428	BODY	ST. ST.		BS1455 GRADE 14
1	1		12428/1	BODY			BS1452 GRADE 14
1	1	2	C.123	COVER, VALVE, TOP	C.I.		BS1452 GRADE 14
1	1		35391/3	COVER, VALVE, TOP	C.I.		BS1452 GRADE 14
1	1	3	C.101	COVER, BOTTOM	C.I.		BS1452 GRADE 14
1	1		36392/3	COVER, BOTTOM	C.I.		BS1452 GRADE 14
2	2	4	C.66	COVER, CAGE	C.I.		BS1452 GRADE 14
2	2		34402/5	COVER, CAGE	C.I.		BS1452 GRADE 14
2	2	5	V.29	VALVE	SPUN C.I.		BS1452 GRADE 14
2	2		35873/3	VALVE	ALUMINIUM BRONZE		BS1452 GRADE 14
1	1	6	H.6	HANDLE	BRASS		BS218
1	1	7		SPINDLE VALVE	CO-TIP OCTAL		PARKER LUBRIZ
8	8	8	8	NUT, WING.	MT.		BS309 GRADE 2
1	1	9	R.16	N.D. O-RING OS-13	SYN. RUBBER 80 SHORE		LOI/B OR EQUIV.
2	2	10	R.21	N.D. O-RING OS-42	SYN. RUBBER 80 SHORE		CR1710 OR EQUIV.
2	2	11	R.19	N.D. O-RING OS-54	SYN. RUBBER 80 SHORE		LOI/B OR EQUIV.
2	2	12	R.18	N.D. O-RING OS-44	SYN. RUBBER 80 SHORE		LOI/B OR EQUIV.
1	1	13	R.28	N.D. O-RING OS-40	SYN. RUBBER 80 SHORE		LOI/B OR EQUIV.
8	8	14	S.133	N.D. SCREW SET. CH. HD. 3/8 UNC. x 2 1/4 LG.	STEEL		EN16R
8	8	15	B.161	N.D. BOLT. HEX. HD. 3/8 UNC. x 1 LG.	STEEL		EN16R
2	2	16	PV108MSI	PV108MSI PLUG, DRAIN	STEEL		G.C.Q.
2	2		PV108BI	PV108BI PLUG, DRAIN	BRASS		BS249
2	2	17	W.40	S2665/7 WASHER	NYLON		G.C.Q.
2	2	18	P.2	53812/1 PLUG, BLEED	STEEL		G.C.Q.
2	2		P.235	53812/1B PLUG, BLEED	BRASS		BS249
4	4	19	W.23	S2665/1 WASHER	NYLON		G.C.Q.
1	1	20	P.184	51983 PLATE, NAME	ALUM. ALLOY		BS1470 318-H
1	1	21	P.16	30194/A PLATE, INSTRUCTION	BRASS		G.C.Q.
4	4	22	S.181	N.D. SCREW. HAMMER DRIVE	STEEL		(PK TYPE) USIZE D x 3/4 LG.
2	2	23	S.135	N.D. SCREW. HAMMER DRIVE	STEEL		(PK TYPE) USIZE 6 x 1/4 LG.
1	1	24		29-01-98 1/2-2-2 PIN TENSION 1/16 DIA. x 1/4 LONG	STEEL		G.C.Q. CAP. PLTR. REQ. 904
2	2	25		55169/35 PIN, VALVE 1/16 DIA. x 3/4 LONG	ST. ST.		BS 970 EN 581
2	2	26		34403/4 FILTER BASKET 30 MESH	COMPOUND		COMPOUND DETAIL
2	2			34403/5 FILTER BASKET	COMPOUND		COMPOUND DETAIL
1	1	27	B.309	54375/1 BUSH, HEADED	PHOS. BRONZE		BS1400 L.P.B.I. - C
1	1	28	B.304	54373/3 BUSH, BEARING	PHOS. BRONZE		BS1400 L.P.B.I. - C
2	2	29		54653/1 DISTANCE PIECE	ST. ST.		BS 970 EN 581
2	2	30		54654/1 SPINDLE	ST. ST.		BS 970 EN 581
2	2	31		N.D. WING NUT 1/2 UNF	ST. ST.		
2	2	32		N.D. WASHER, PLAIN 1/2"	ST. ST.		(BS SP. 19) BROWN BR.
2	2	33					
2	2	34	M.4	N.D. MAGNETIC ASSY. WITH SHEATH	(PHILLIPS) ELEC. LTD. TYPE 7734		
1	1	35		35266A INSTRUCTION PLATE	BRASS		G.C.Q.
1	1	36		LOCTITE GRADE AVOR 242	AS REQ'D.		
1	1	37		34844/5 EQUAL. PIPE	COPPER PIPE & BRASS FITTING		

NOTE: DRG. No. 12387/F ISSUE 9 IS SEALED

ISSUE DATE	ISS. NO.	ISSUE DATE	ISS. NO.
8-2-60	2098	13-10-60	2100
2-23-60	2128	7-27-60	2130
3-14-60	2166	8-27-60	2168
4-9-60	2225	9-27-60	2227

ASSEMBLIES USED ON	PROJECTS USED ON	PATTERN NO.	MATERIAL	MATERIAL SPECIFICATION	PROTECTIVE FINISH	TOLERANCES
1						
2						
3						
4						

STOCK BOOK NO.	MATERIAL	MATERIAL SPECIFICATION	PROTECTIVE FINISH	TOLERANCES

APPROVED

RAILTRACK

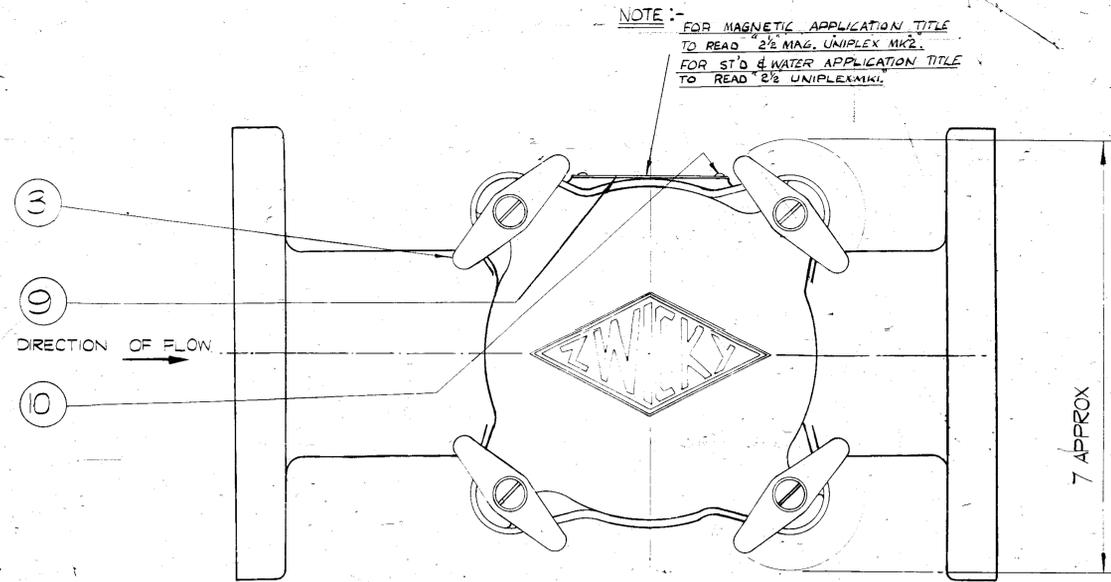
18126/UNE

TITLE: 2 1/2 BIPLEX FILTER DIESEL OIL

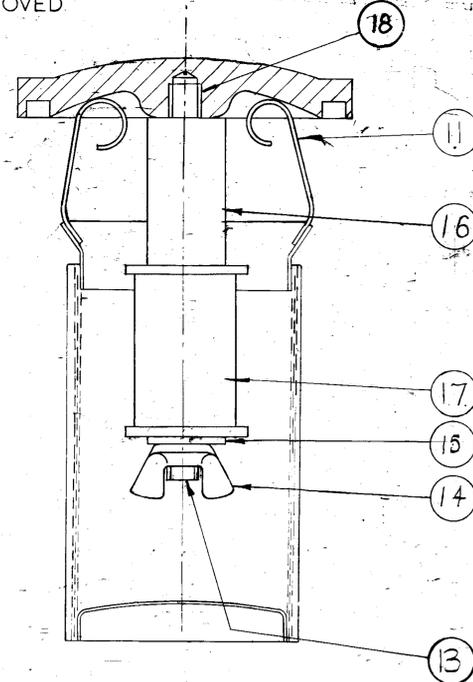
F-D-3

THIRD ANGLE PROJECTION

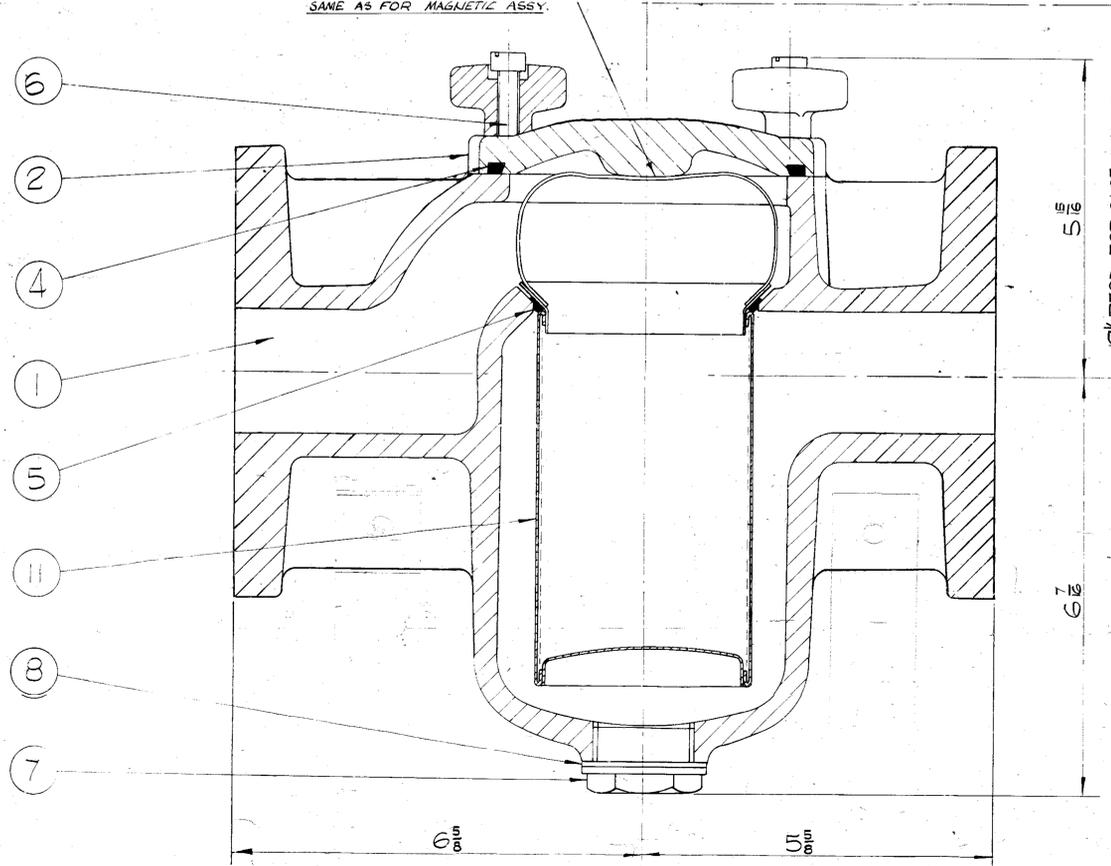
ALL SHARP EDGES AND BURRS TO BE REMOVED



NOTE:- FOR MAGNETIC APPLICATION TITLE TO READ "2 1/2 MAG. UNIPLEX MK2" FOR STD & WATER APPLICATION TITLE TO READ "2 1/2 UNIPLEX MK1"



NOTE:- FOR STD APPLICATION CAGE AS SHOWN FOR WATER APPLICATION CAGE IS SAME AS FOR MAGNETIC ASSY.



FLANGE DETAILS		NOT MACHINED	TABLE	TABLE D	TABLE	TABLE	CLASS 125 A.S.A. OR B.S.1560	CLASS 150 F.F. A.S.A. OR B.S.1560
ALL	STOCK BOOK No.	F2730		F2732		F2734		
FERRULES	DRAWING No.	12407/F-U		12407/F-D		12407/F-H	12407/F-125	12407/F-150
WATER APPLICATION	DRAWING No.	12407/W-U		12407/W-D		12407/W-H	12407/W-125	12407/W-150
MAGNETIC (STD)	DRAWING No.	12407/M-U		12407/M-D		12407/M-H	12407/M-125	12407/M-150
MAGNETIC (WATER)	DRAWING No.	12407/MW-U		12407/MW-D		12407/MW-H	12407/MW-125	12407/MW-150

NOTE:- MATERIAL FOR ITEM MARKED \* THUS :- \* TO BE SPECIFIED AS REQD.  
TEST PRESSURE 500 P.S.I.  
WORKING PRESSURE 250 P.S.I. (NON-SHOCK)

NO. OF ITEMS	PER ASSEMBLY	REV. NO.	STOCK BOOK NO.	DRAWING NO.	DESCRIPTION	MATERIAL	SPEC.	FINISH
1	1		843	12425	BODY	C.I.	BS1452 250 P.S.I.	
2	1		666	344028	COVER, CAGE	C.I.	BS1452 250 P.S.I.	
				344025	COVER, CAGE	C.I.	BS1452 250 P.S.I.	
4	4		3	N79	537803	NUT, WING	M.I.	BS229
4	4		4	R19	N.D.	O RING OS 5/2	5% S-BRASS	LO/B OR EQUIV.
1	1		5	R21	N.D.	O RING OS 1/2	5% S-BRASS	CR10 OR EQUIV.
4	4		4	6	S133	N.D.	SCREW, CHD 3/8 x 2 1/4	STEEL
1	1		7	P108	P108WS	PLUG, DRAIN	STEEL	300
1	1				P108B	PLUG, DRAIN	BRASS	BS229
1	1		8	W10	522657	WASHER	NYLON	-
1	1		9	P184	51983	PLATE, NAME	ALUM. ALLOY	BS1270 5.8
4	4		4	10	S181	N.D.	SCREW, HAMMER DRIVE	PK TYPE V SEE D. 3. 3. 6. 6.
1	1		11	-	344034	FILTER BASKET 120 MESH	COMPOUND	-
					344035	FILTER BASKET	COMPOUND	-
1	1		12					
1	1		13	54654	1	SPINDLE	STEEL	BS970 EN58A
1	1		14	N.D.		WINGNUT, 1/2 UNF	ST. ST.	
1	1		15	N.D.		WASHER PLAIN 1/2	ST. ST.	(B.S. SP19N BROWN BROS)
1	1		16	54653	1	DISTANCE PIECE	ST. ST.	BS 370 EN58A
1	1		17	M2	N.D.	MAGNETIC ASSY WITH SHEATH	PHILLIPS	ELECTRICAL LTD
1	1		18			LOTTITE GRADE N GRAY	AS REQD.	

Final Print



VL 801-344-Heed R/c

ZWICKY LTD TRADING ESTATE SLO

Im6/317

2 1/2 UNIPLEX FILTER (DIESEL OIL)

F-D-120

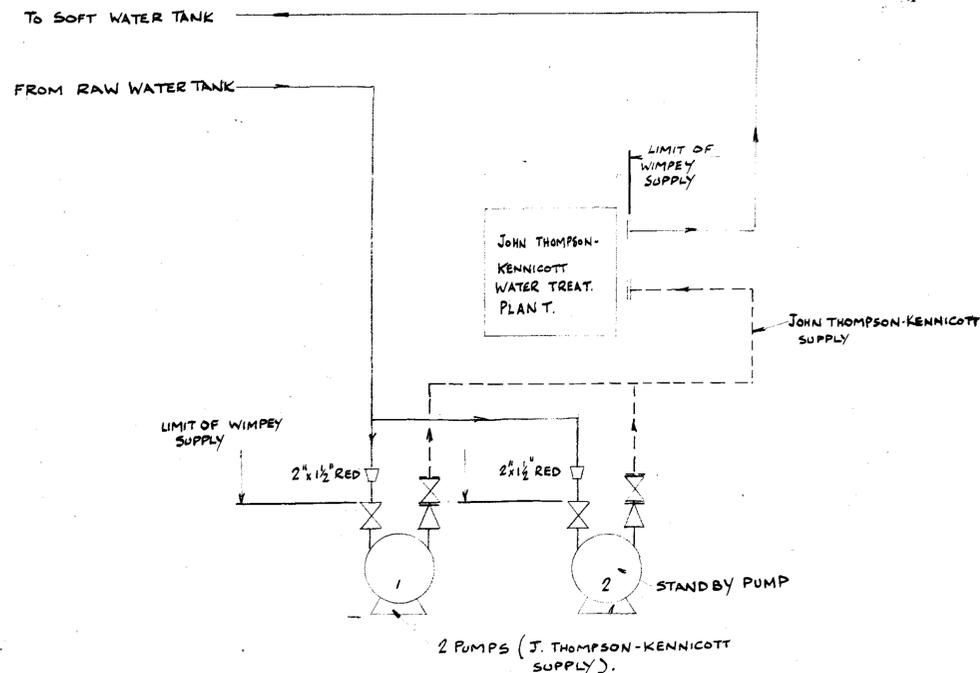
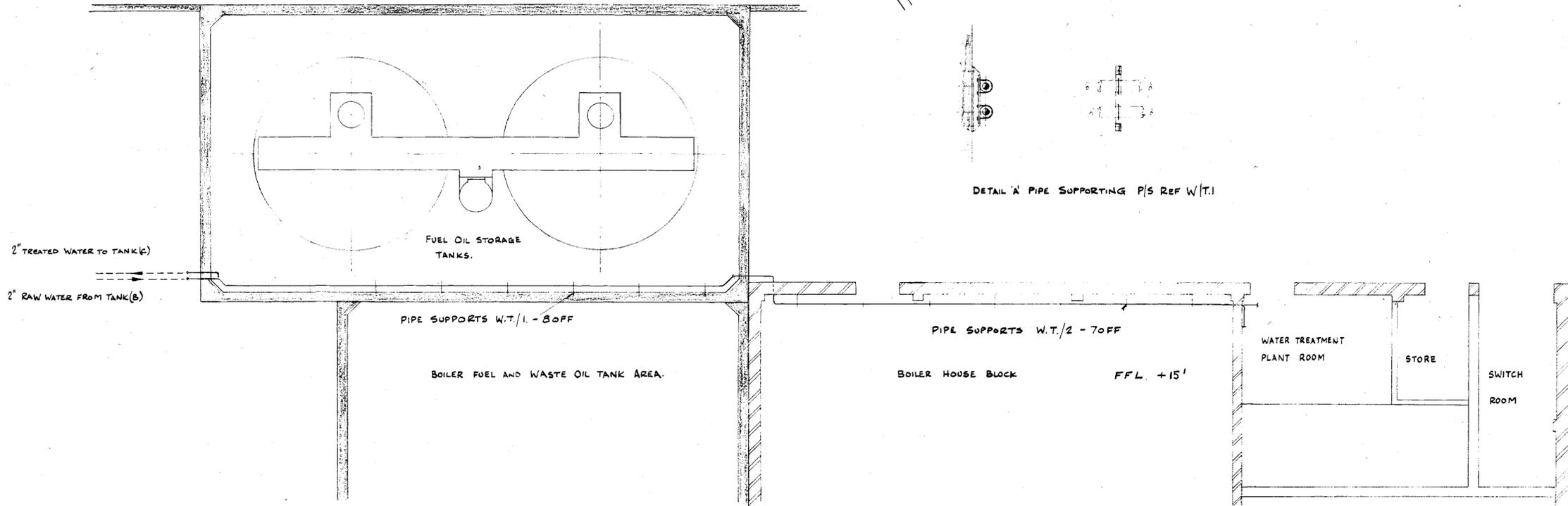
F172

REV.	DATE	BY	CHKD	DATE	DESCRIPTION
1	10.2.60	2098	5	27.5.60	27-66-3743
2	21.5.60	2188	7	28.5.60	40-03-4506
3	14.4.60	2166	8	15.6.60	
4	18.5.60	2225	9	22.5.60	
5	22.7.60	2145	10	28.7.60	

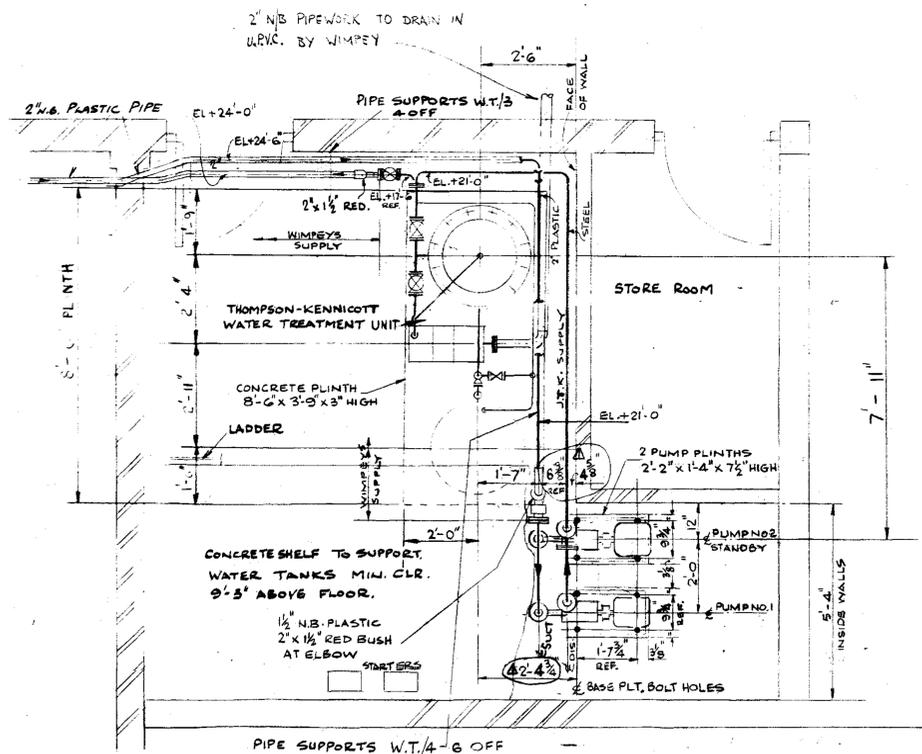
APPROVALS USED ON	PROJECTS USED ON	PATTERN NO.	MATERIAL	MATERIAL SPECIFICATION	PROTECTIVE FINISH
1					
2					
3					
4					

TOLERANCES  
ALL DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN INCHES  
DIMENSIONS UNLESS OTHERWISE SPECIFIED ARE IN MILLIMETERS  
DIMENSIONS IN INCHES

SCALE



DIAGRAMMATIC ARRGT OF WATER TREATMENT PLANT ROOM PIPEWORK AND EQUIPMENT.



PLAN OF WATER TREATMENT PLANT ROOM  
SCALE 1/2" = 1'-0"

- NOTES
1. FOR PIPEWORK DETAILS OF WATER TOWER SEE DRG GL 344 D92.
  2. FOR PIPE SUPPORT DETAILS OF WATER TOWER AND WATER TREATMENT ROOM SEE DRG N<sup>o</sup> GL 344 D95



REVISION	DRN/CHD/COM/ENG/CLT/DATE	ISS.
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CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)  
 IMMINGHAM DIESEL SERVICING AND MAINT. DEPOT  
 WATER TREATMENT PLANT AND ASSOCIATED PIPEWORK.

GEORGE WIMPEY & CO. LTD.  
 DEPT. 1, M. & E. ENGINEERING DIVISION,  
 FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
1/2" = 1'-0"	GL 344 D93	Φ

DRAWING NUMBER



KEY PLOT PLAN

REFERENCE DRAWINGS

GENERAL NOTES

1. VALVES TO BE TAGGED:- FUEL OIL I, ETC.



ORIGINAL ISSUE	
REVISION	DRN/CH/D/C/DM/ENG/CLT DATE ISS.

CLIENT :- BRITISH RAILWAYS BOARD (EASTERN REGION)

IMMINGHAM DIESEL SERVICING DEPOT  
FUEL OIL FLOW DIAGRAM

GEORGE WIMPEY M. E. & C. LIMITED

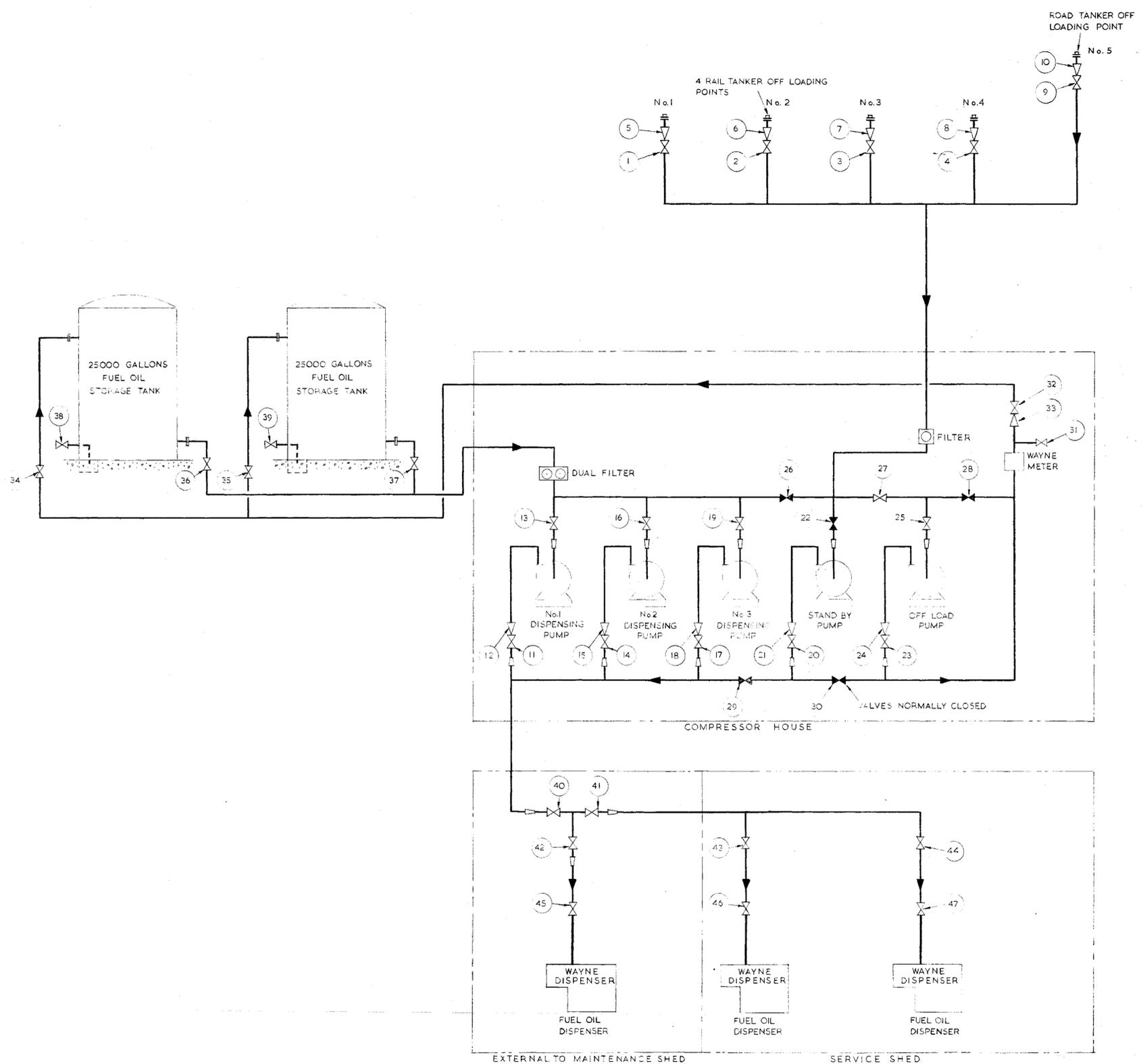
FLYOVER HOUSE, GREAT WEST ROAD,  
BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
	GL-344-A75	○

40 x 27 OVERALL

VALVE NO	SERVICE	DUTY	LOCATION
1-4 INCL	FUEL OIL	IV	RAIL TANKER OFF-LOADING POINT
5-8 INCL	"	NRV	RAIL TANKER OFF-LOADING POINT
9	"	IV	ROAD TANKER OFF-LOADING POINT
10	"	NRV	ROAD TANKER OFF-LOADING POINT
11	"	IV	NO.1 PUMP DISCHARGE
12	"	NRV	NO.1 PUMP DISCHARGE
13	"	IV	NO.2 PUMP SUCTION
14	"	IV	NO.2 PUMP DISCHARGE
15	"	NRV	NO.2 PUMP DISCHARGE
16	"	IV	NO.2 PUMP SUCTION
17	"	IV	NO.1 PUMP DISCHARGE
18	"	NRV	NO.3 PUMP DISCHARGE
19	"	IV	NO.3 PUMP SUCTION
20	"	IV	STAND-BY PUMP DISCHARGE
21	"	NRV	STAND-BY PUMP DISCHARGE
22	"	IV	STAND-BY PUMP SUCTION
23	"	IV	OFF LOAD PUMP DISCHARGE
24	"	NRV	OFF LOAD PUMP DISCHARGE
25	"	IV	OFF LOAD PUMP DISCHARGE
26	"	IV	PUMP SUCTION HEADER
27	"	IV	PUMP SUCTION HEADER
28	"	IV	PUMP SUCTION HEADER
29	"	IV	PUMP DISCHARGE HEADER
30	"	IV	PUMP DISCHARGE HEADER
31	"	IV	SAMPLE POINT
32	"	IV	DISCHARGE TO STORAGE TANKS
33	"	NRV	DISCHARGE TO STORAGE TANKS
34	"	IV	STORAGE TANK INLET
35	"	IV	STORAGE TANK INLET
36	"	IV	STORAGE TANK OUTLET
37	"	IV	STORAGE TANK OUTLET
38	SLUDGE DRAW-OFF	IV	STORAGE TANK
39	"	IV	STORAGE TANK
40	FUEL OIL	IV	DISCHARGE TO DISPENSERS
41	"	IV	DISCHARGE TO DISPENSERS
42-44 INCL	"	IV	FUEL OIL DISPENSER
45-47 INCL	"	RV	FUEL OIL DISPENSER
48-50 INCL	"	NRV	FUEL OIL DISPENSER

LEGEND-  
IV. ISOLATING VALVE  
NRV. NON RETURN VALVE



26244

**FOR CONSTRUCTION**

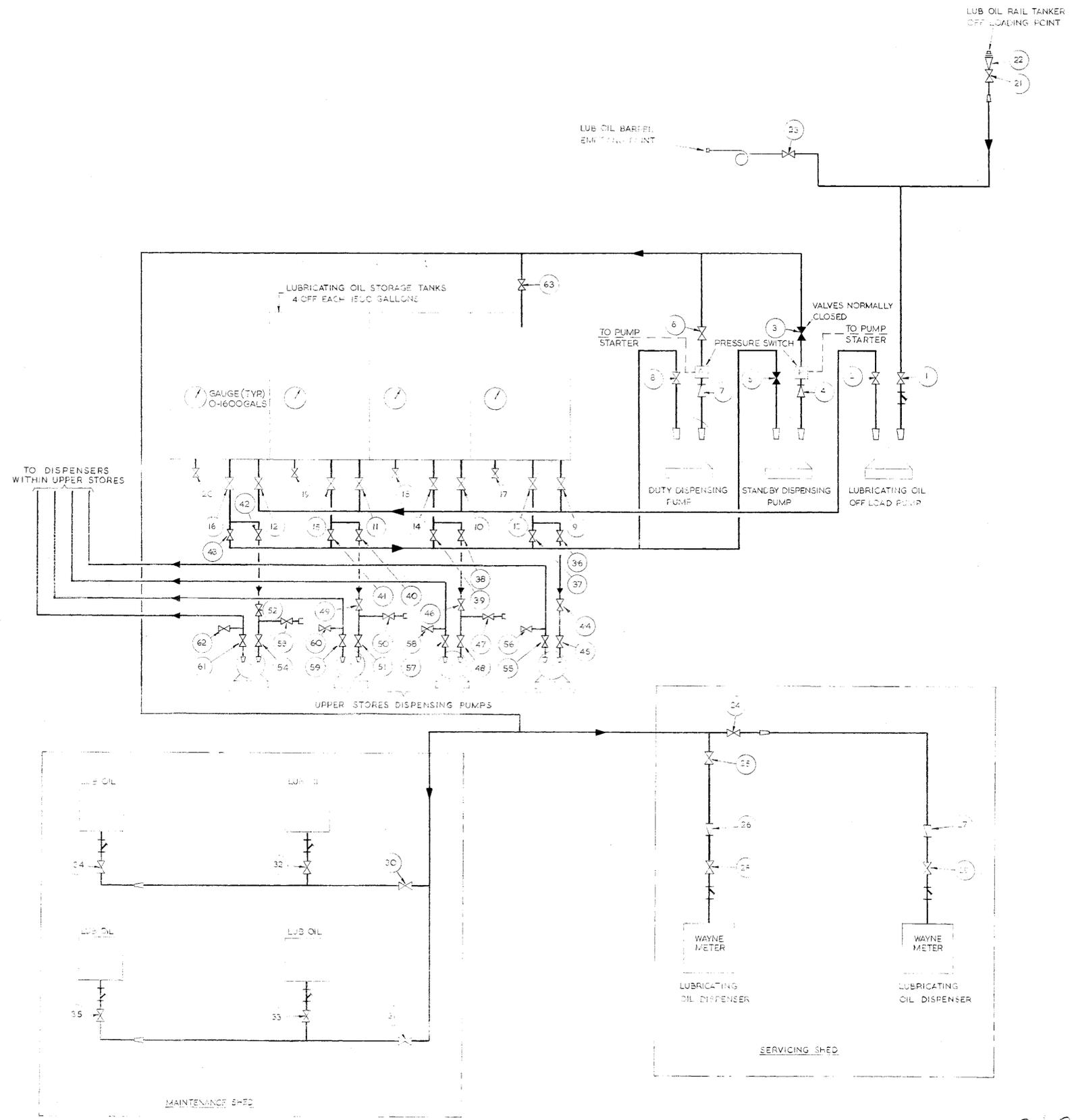
KEY PLOT PLAN

DRAWING NUMBER



VALVE NO	SERVICE	DUTY	LOCATION
1	LUB OIL	IV	OFF LOAD PUMP SUCTION
2	"	IV	OFF LOAD PUMP DELIVERY
3	"	IV	STANDBY PUMP DELIVERY
4	"	NRV	STANDBY PUMP DELIVERY
5	"	IV	STANDBY PUMP SUCTION
6	"	IV	DUTY PUMP DELIVERY
7	"	NRV	DUTY PUMP DELIVERY
8	"	IV	DUTY PUMP SUCTION
9	"	IV	STORAGE TANK INLET
10	"	IV	"
11	"	IV	"
12	"	IV	"
13	"	IV	OUTLET
14	"	IV	"
15	"	IV	"
16	"	IV	"
17	"	IV	DRAIN
18	"	IV	"
19	"	IV	"
20	"	IV	RAIL TANKER OFF LOADING
21	"	IV	"
22	"	IV	"
23	"	IV	BARREL EMPTYING
24	"	IV	SERVICING SHED
25	"	IV	"
26	"	NRV	" DISPENSERS
27	"	NRV	"
28	"	IV	"
29	"	IV	"
30	"	IV	MAINTENANCE SHED
31	"	IV	"
32	"	IV	" DISPENSERS
33	"	IV	"
34	"	IV	"
35	"	IV	"
36	"	IV	STORAGE TANK OUTLET MANIFOLD
37	"	IV	"
38	"	IV	"
39	"	IV	"
40	"	IV	"
41	"	IV	"
42	"	IV	"
43	"	IV	"
44	"	IV	UPPER STORES PUMP SUCTION
45	"	IV	"
46	"	IV	"
47	"	IV	"
48	"	IV	"
49	"	IV	"
50	"	IV	"
51	"	IV	"
52	"	IV	"
53	"	IV	"
54	"	IV	"
55	"	IV	UPPER STORES PUMP DISCHARGE
56	"	IV	"
57	"	IV	"
58	"	IV	"
59	"	IV	"
60	"	IV	"
61	"	IV	"
62	"	IV	"
63	"	IV	STORAGE TANK

LEGEND:  
 I.V. ISOLATION VALVE  
 NRV NON RETURN VALVE



**FOR CONSTRUCTION**

REFERENCE DRAWINGS

GENERAL NOTES

1. VALVES TO BE TAGGED - LUB. OIL I., ETC.

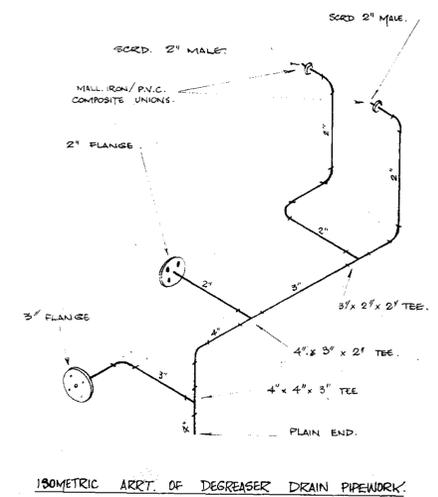
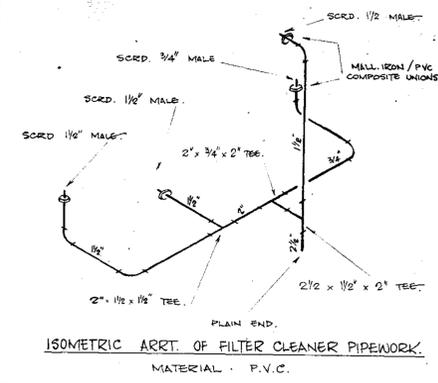
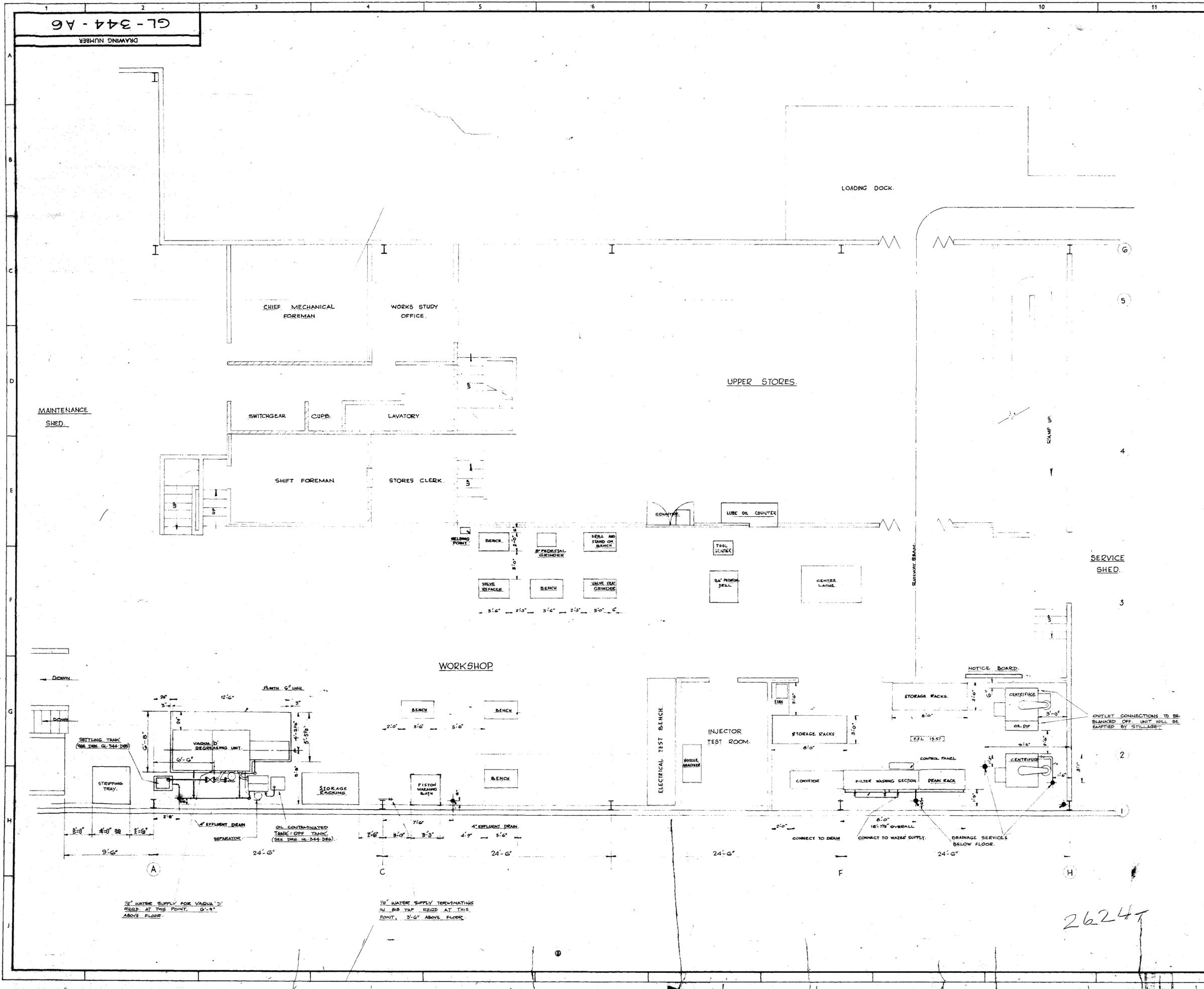


ORIGINAL ISSUE	1	ISS
REVISION		ISS
CLIENT - BRITISH RAILWAYS BOARD (EASTERN REGION)		
IMMINGHAM DIESEL SERVICING DEPOT LUBRICATING OIL FLOW DIAGRAM.		
GEORGE WIMPEY M. E. & C. LIMITED FLYOVER HOUSE, GREAT WEST ROAD, BRENTFORD, MIDDLESEX		
SCALE	DRAWING NUMBER	ISSUE
	GL-344-A78	0

GL-344-A6

DRAWING NUMBER

CONTRACT DRAWING NO 99

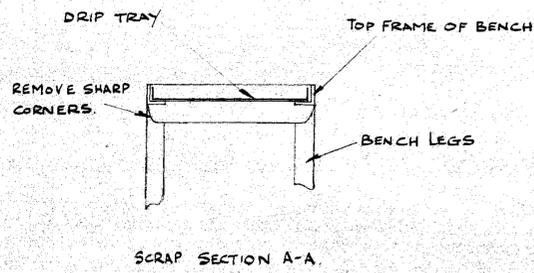
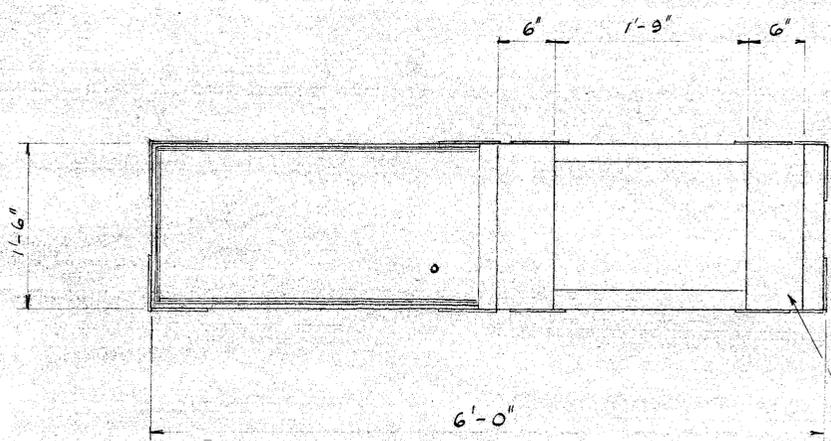


<b>FOR CONSTRUCTION</b>			
LUBE OIL COUNTER ADDED	12		2
REDRAWN	4/81		8.10.68
REVISION	DRN/CHD/C/DM/ENG/CLT	DATE	ISS.
CLIENT - BRITISH RAILWAYS BOARD (EASTERN REGION)			
IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT			
ARRT. OF WORKSHOP AREA.			
GEORGE WIMPEY & CO. LTD.			
DEPT. 1. M. & E. ENGINEERING DIVISION,			
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.			
SCALE	DRAWING NUMBER	ISSUE	
1/4" = 1'-0"	GL-344-A6	2	

26247

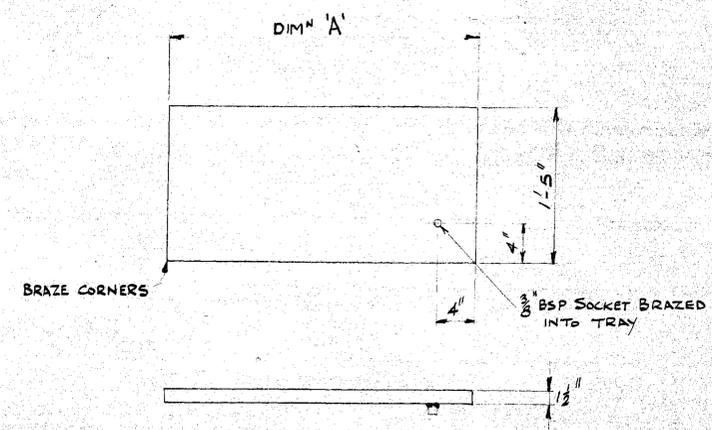
GL 344 H 92

DRAWING NUMBER



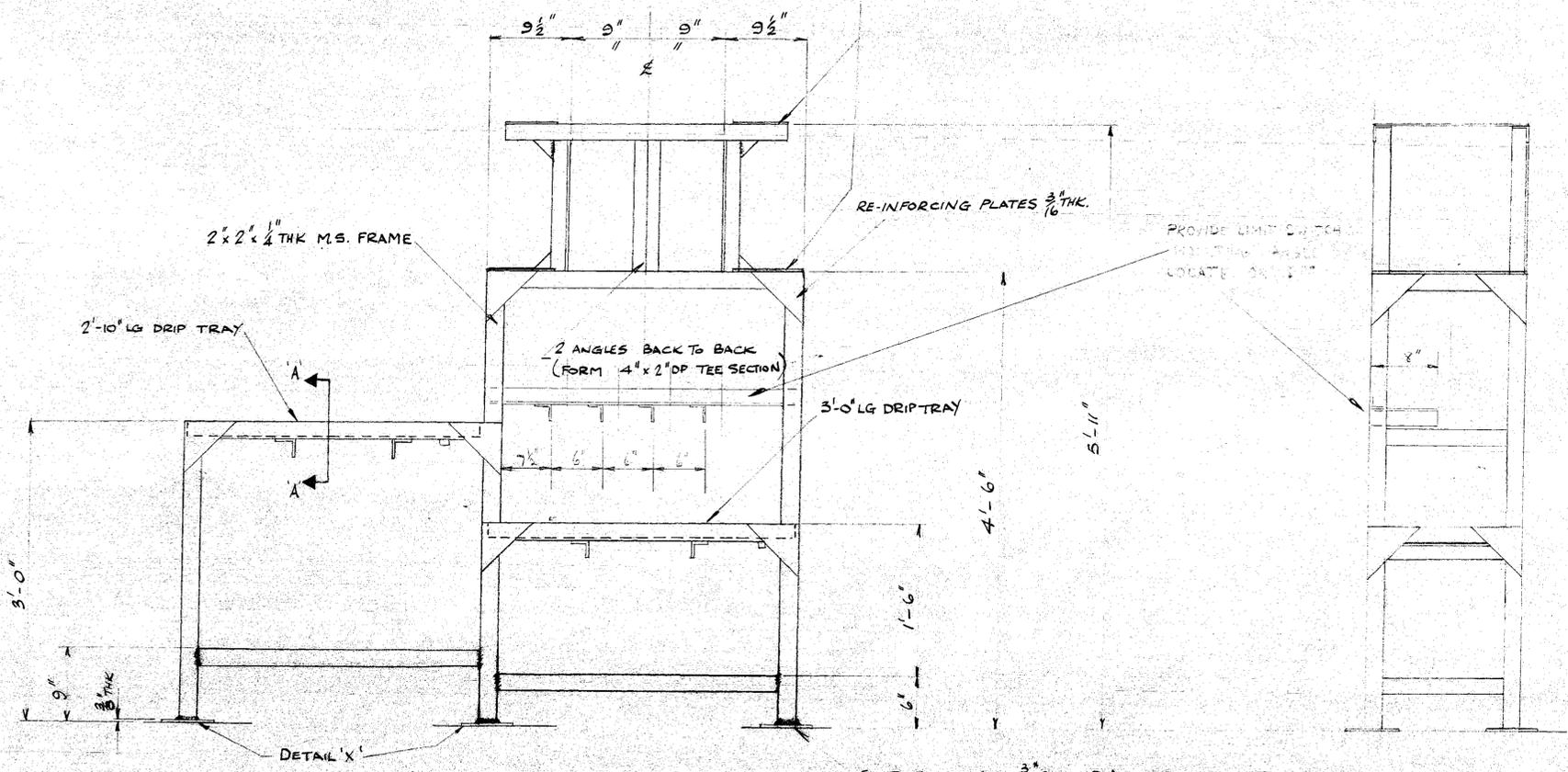
SCRAP SECTION A-A.

SUPPORT PLATES  $\frac{3}{16}$ " THK.

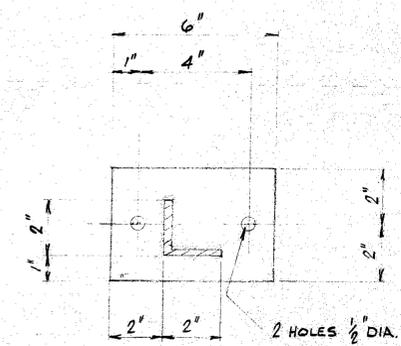


DRIP TRAY MAT<sup>L</sup>  $\frac{1}{16}$ " THK M.S. SHT.  
 DIM<sup>N</sup> 'A'  
 2'-10" N° OFF  
 3'-0" 1

DRIP TRAYS TO BE ASSEMBLED TO FIT FRAME



PROVIDE LIMIT SWITCH FOR THE ANGLE LOCATE ON 1-11"



DETAIL 'X' BASEPLATE  $\frac{3}{8}$ " THK MILD STEEL - G OFF

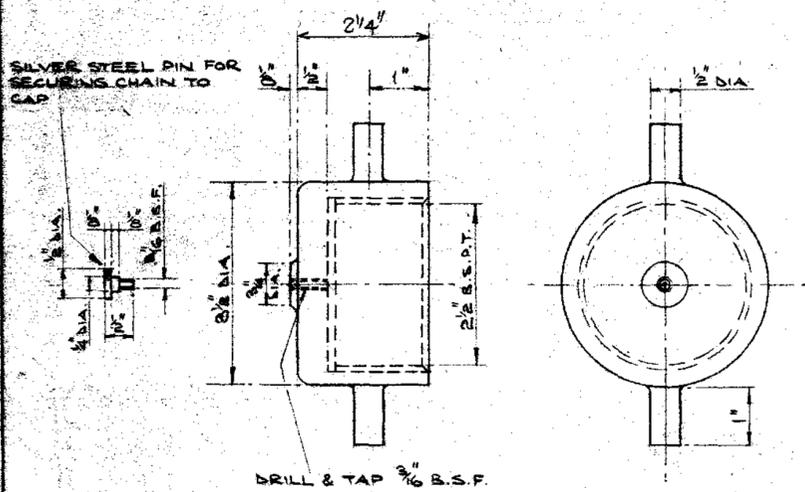
NOTES

1. FRAME TO BE CONSTRUCTED FROM 2" x 2" x 1/4" THK M.S.
2. ALL WELDED CONSTRUCTION
3. COMPLETED FRAME TO BE FREE BURS OR SHARP EDGES
4. FRAME IS TO BE RED OXIDE COATED.

REFERENCE ASSY DRG GL-344-P66

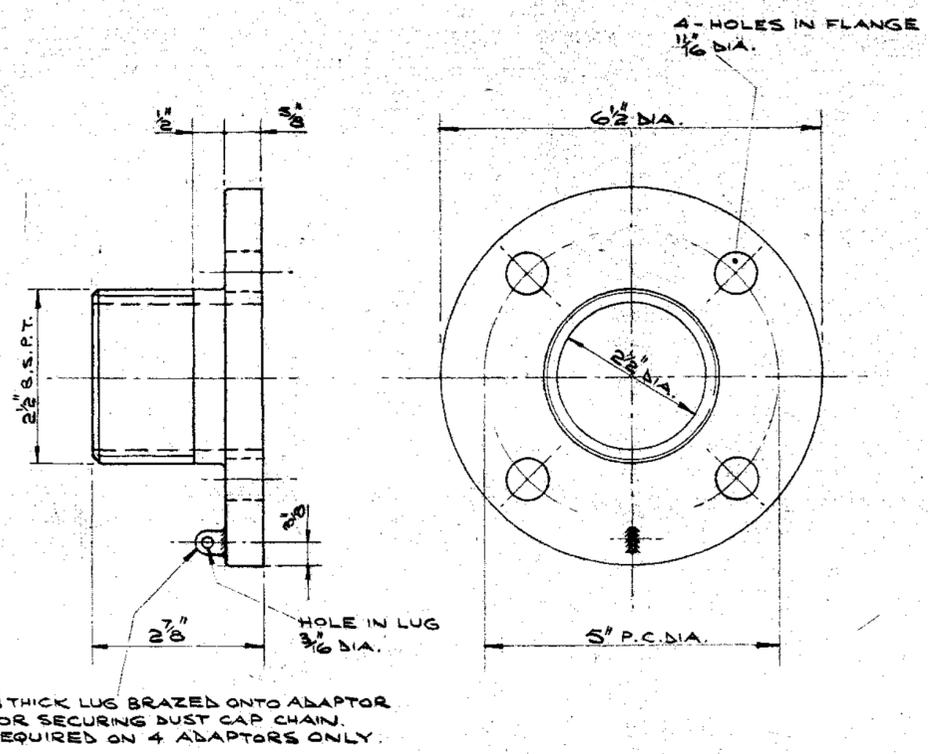


REVISION	DRN	CH'D	C.D	ENG	CLT	DATE	ISS.
CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)							
IMMINGHAM DIESEL MAINTENANCE & SERVICING DEPT LUB. OIL DISPENSER SUPPORT FRAME							
GEORGE WIMPEY & CO. LTD. DEPT. 1, M. & E. ENGINEERING DIVISION, FLYOVER HOUSE, BRENTFORD, MIDDLESEX.							
SCALE	DRAWING NUMBER						ISSUE
1/2" = 1'-0"	GL 344 H 92						0

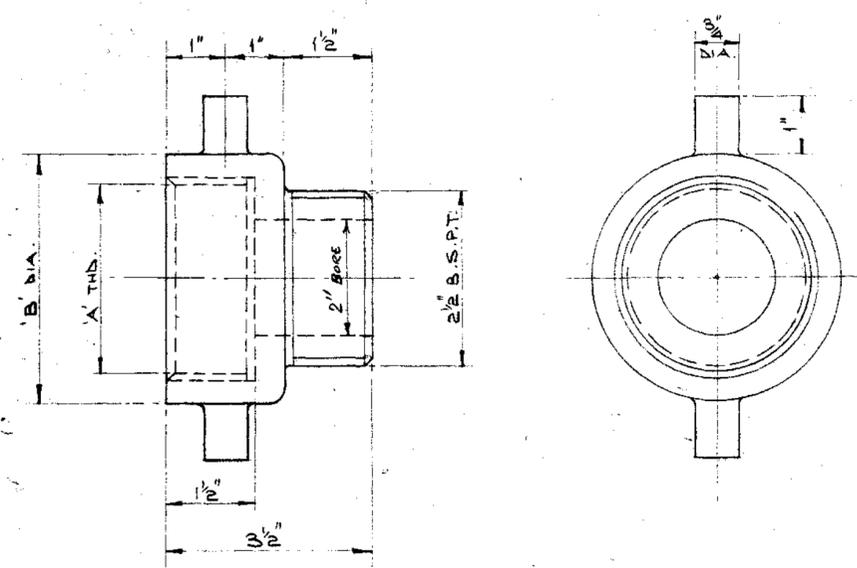


TO BE SUPPLIED COMPLETE WITH CHAIN SECURING PIN, SUITABLE CHAIN 12" LONG.

**DUST CAP.**  
MATERIAL: GUNMETAL  
NO REQD. SEVEN



**OFF-LOAD POINT ADAPTOR.**  
MATERIAL: GUNMETAL  
NO REQD. TEN - FOUR WITH CHAIN LUG



**RAIL TANK WAGON ADAPTOR.**  
MATERIAL: GUNMETAL

ADAPTOR	A	B	NO REQD.
B.S.P.T. FEMALE.	2" B.S.P.T.	3 1/2"	FOUR.
B.S.P.T. FEMALE	3" B.S.P.T.	4 1/2"	SIX.
WHITWORTH GAS THREAD.	4" W.G.T.	5 1/4"	FOUR.

ALL RADII TO BE 1/8 UNLESS OTHERWISE STATED.  
DETAILS OBTAINED FROM BRITISH RAILWAYS DRG. NO E.82.

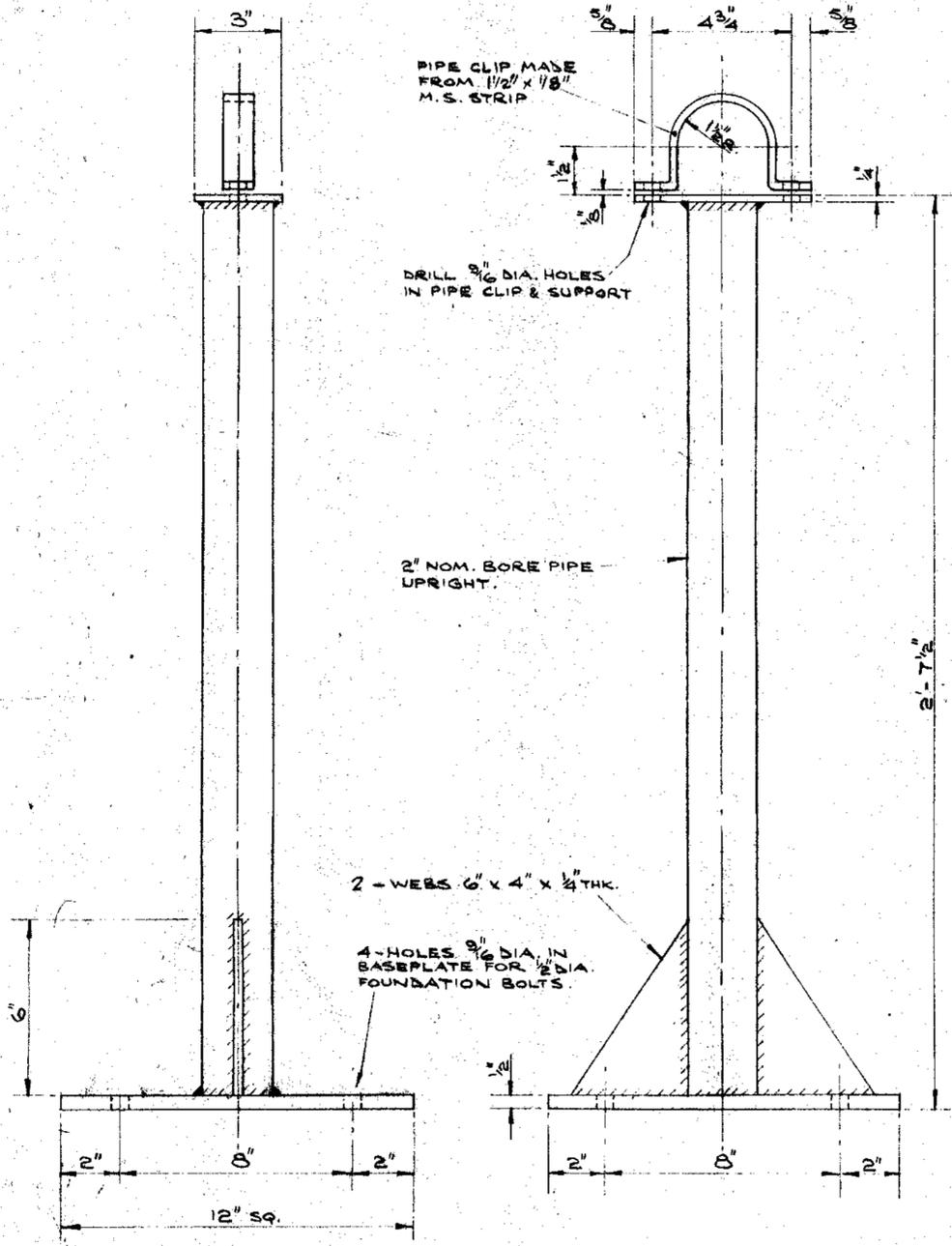


**FOR CONSTRUCTION**

REV No.	DATE	REVISION	DRN	CHK.	DR. SUPV.	ENG.	TECH. MNGR.	SIG.	DATE
BRITISH RAILWAYS BOARD (EASTERN REGION)									
GEORGE WIMPEY & CO. LTD. DEPT. 1. M. & E. ENGINEERING DIVISION. FLYOVER HOUSE, BRENTFORD, MIDDLESEX.									
IMMINGHAM DIESEL MAINTENANCE & SERVICES DEPOT, DIESEL FUEL OIL INSTALLATION. OFF-LOAD POINTS-SPECIAL PIPE FITTINGS.									
SCALE	DRAWING NO.							REV	
1/2 FULL SIZE	<b>BL-344-P14.</b>							0	

**CONTRACT DRG. NO 109**

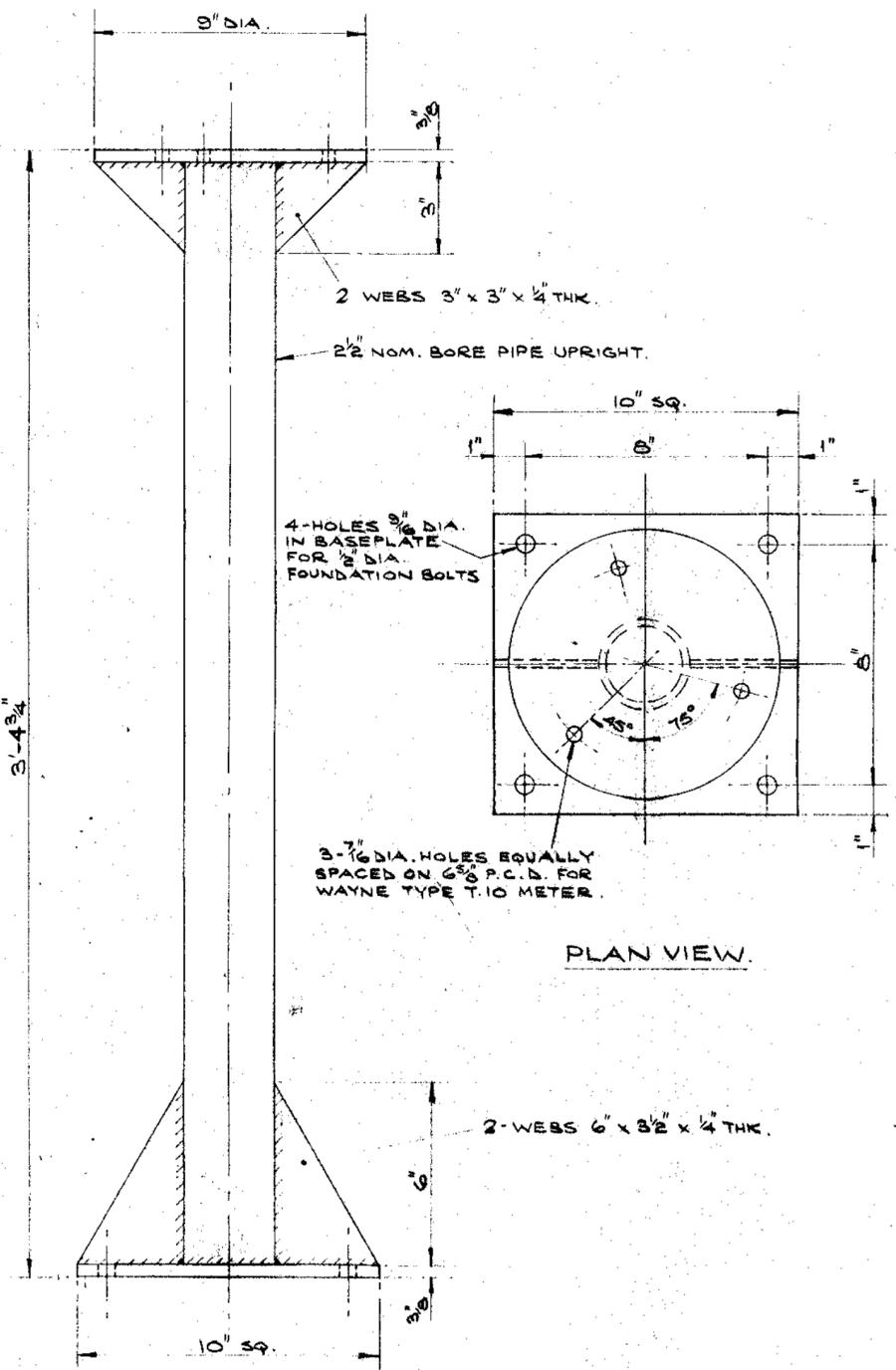
PIPE CLIPS TO BE SUPPLIED WITH REQUIRED NUTS BOLTS AND WASHERS.  
SUPPORTS TO BE OF WELDED CONSTRUCTION  
DETAILS OBTAINED FROM BRITISH RAILWAYS DRG. NO E.82.



OFF LOAD POINT SUPPORT.

MATERIAL : MILD STEEL.  
FINISH : ONE COAT RED OXIDE

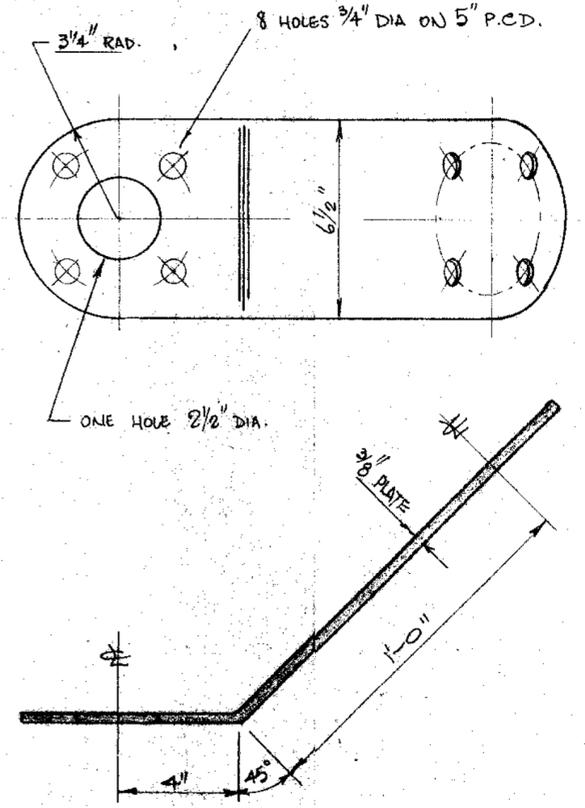
NO REQD. : FOUR



METER SUPPORT.

MATERIAL : MILD STEEL.  
FINISH : ONE COAT RED OXIDE.

NO REQD. : ONE



SUCTION HOSE SUPPORT PLATE

MATERIAL - MILD STEEL.  
FINISH - 1 COAT RED OXIDE  
NO REQD - FOUR



**FOR CONSTRUCTION**

REV No.	DATE	REVISION	DRN	CHK.	DR. SUPV.	ENG.	TECH. MNGR.	SIG.	DATE
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BRITISH RAILWAYS BOARD (EASTERN REGION)

**GEORGE WIMPEY & CO. LTD.**  
DEPT. 1. M. & E. ENGINEERING DIVISION.  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

IMMINGHAM DIESEL MAINTENANCE & SERVICING  
DEPOT. DIESEL FUEL OIL INSTALLATION.  
METER & OFF-LOAD POINT SUPPORTS

SCALE	DRAWING NO.	REV
1/4 FULL SIZE	<b>BL-344-H13</b>	0

SINGLE LINE PIPEWORK SHOWN ON THIS DRAWING M.S. HEAVYWEIGHT TO B.S. 1387 SOLID DRAWN. FLANGES TO B.S. 10 PART 2 TABLE 'D' SLIP ON WELDED FLAT FACE. FITTINGS BUTT WELDED TO S.S. 1965.

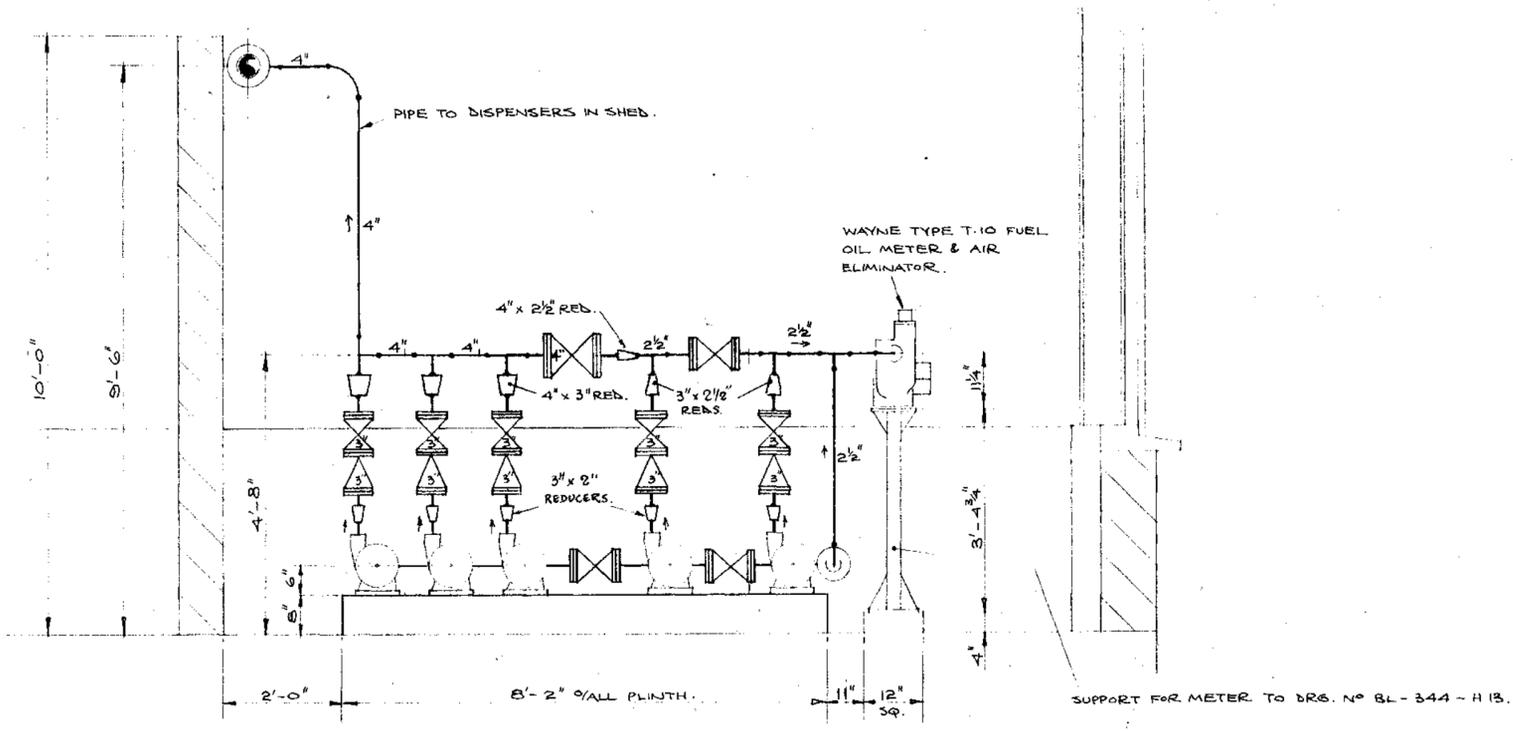
DOUBLE LINE PIPEWORK SHOWN ON THIS DRAWING UNPLASTICISED P.V.C. TO B.S. 3506:1962. FLANGES TO B.S. 10 PART 2 TABLE 'D' PIPEWORK ASSEMBLED BY SOLVENT WELDING.

STOP VALVES: SAUNDERS C.I. FLANGED TYPE 'A' DIAPHRAGM TYPE.

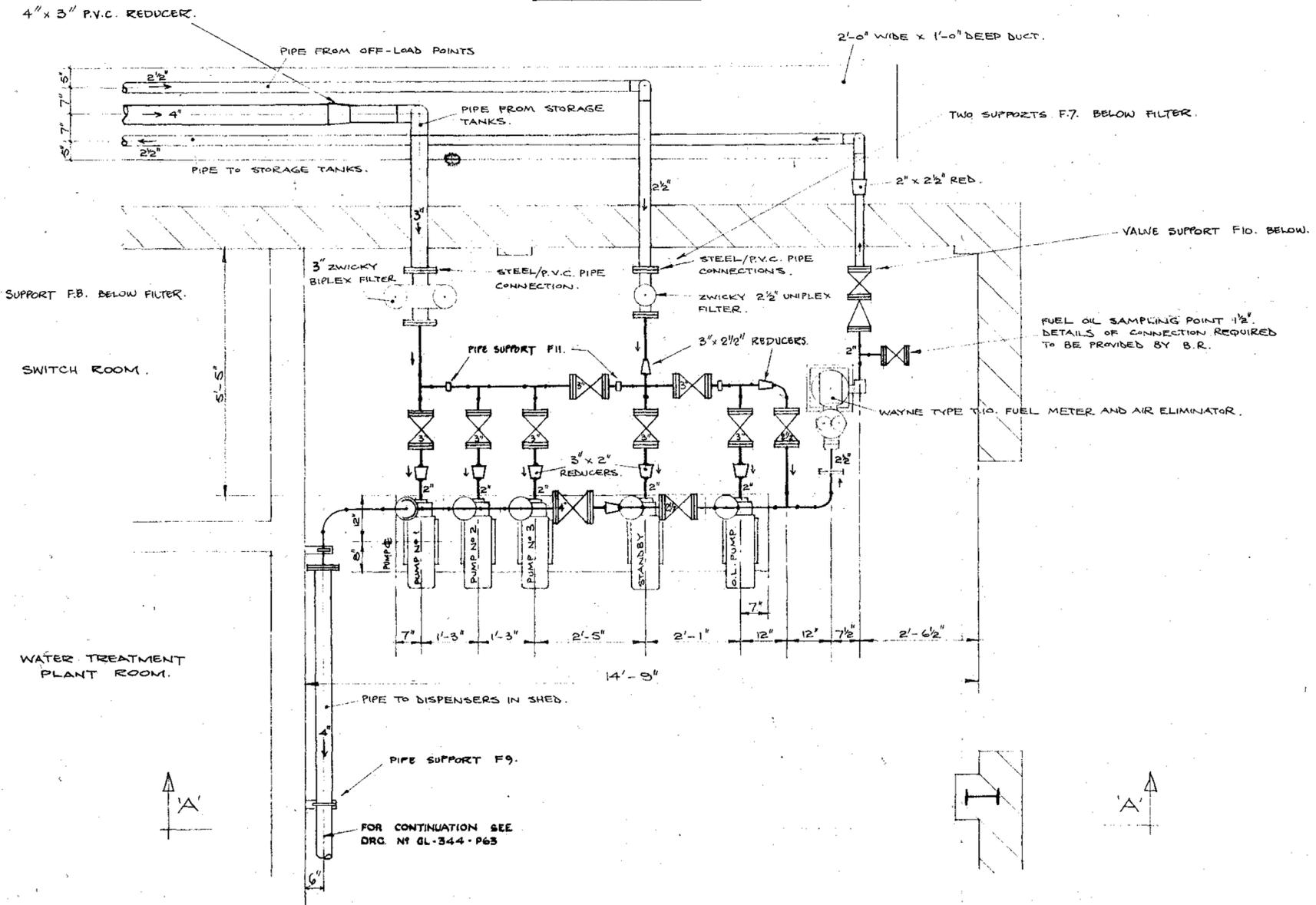
NON-RETURN VALVES: CRANE C.I. FLANGED TYPE F.481.

PUMPS: WORTHINGTON SIMPSON TYPE 2DM4. 3 H.P. SUCTION AND DELIVERY SCREWED 2" B.S.P.T.

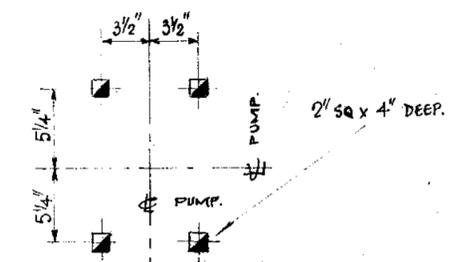
FOR DETAILS OF PIPE SUPPORTS SEE DRG NO



**VIEW ON 'A'-A'**



**FOR CONSTRUCTION**



**TYPICAL HOLD-DOWN BOLT HOLE CRS. FOR ALL PUMPS.**



REV No.	DATE	REVISION	A.C.	DRN	CHK.	DR. SUPV.	ENG.	TECH. MNGR.	SIG.	DATE
---------	------	----------	------	-----	------	-----------	------	-------------	------	------

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

**GEORGE WIMPEY & CO. LTD.**  
DEPT. 1 - M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

WIMMINGHAM DIESEL LOCO. SERVICING & MAINTENANCE DEPT  
DIESEL FUEL OIL INSTALLATION  
LAYOUT OF PUMPS AND ASSOCIATED PIPEWORK.

SCALE	DRAWING NO.	REV
1/2 IN. TO 1 FOOT.	<b>BL-344-P16</b>	0

26244

DRAWING NUMBER

PRIMING TANK SIZE 16" x 12" x 8" DEEP WITH HINGED COVER, AND ANGLE LEGS BOLTED TO TOP OF MAIN TANK

THREE - COMBINED AIR VENT & DIP HATCHES.

LEVEL GAUGES BY SEETRU LTD.

1'-0" DIA. RAISED MANHOLE

1/2" BSPT SOCKET OUTLET

2 1/2" SLUDGE DRAW OFF PIPE FLGD. BST'D

1/2" x 1/2" x 1/4" M.S. ANGLE FRAME INSIDE TANK.

9" DIA x 3" DEEP SUMP

MATERIAL: 1/4" PLATE & 1/2" x 1/2" x 1/4" ANGLE.

CONSTRUCTION: FULLY WELDED MILD STEEL

FINISH: INSIDE: WIRE BRUSHED & BRUSHINGS REMOVED  
 OUTSIDE: WIRE BRUSHED, PAINTED ONE COAT RED LEAD PRIMER, WITH TWO COATS BLACK BITUMASTIC ON UNDERSIDE BEFORE DESPATCH



FOR CONSTRUCTION

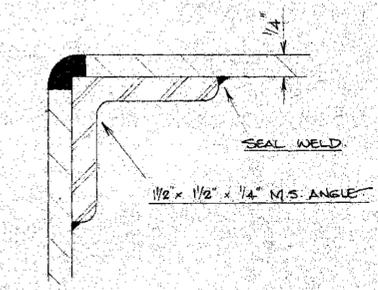
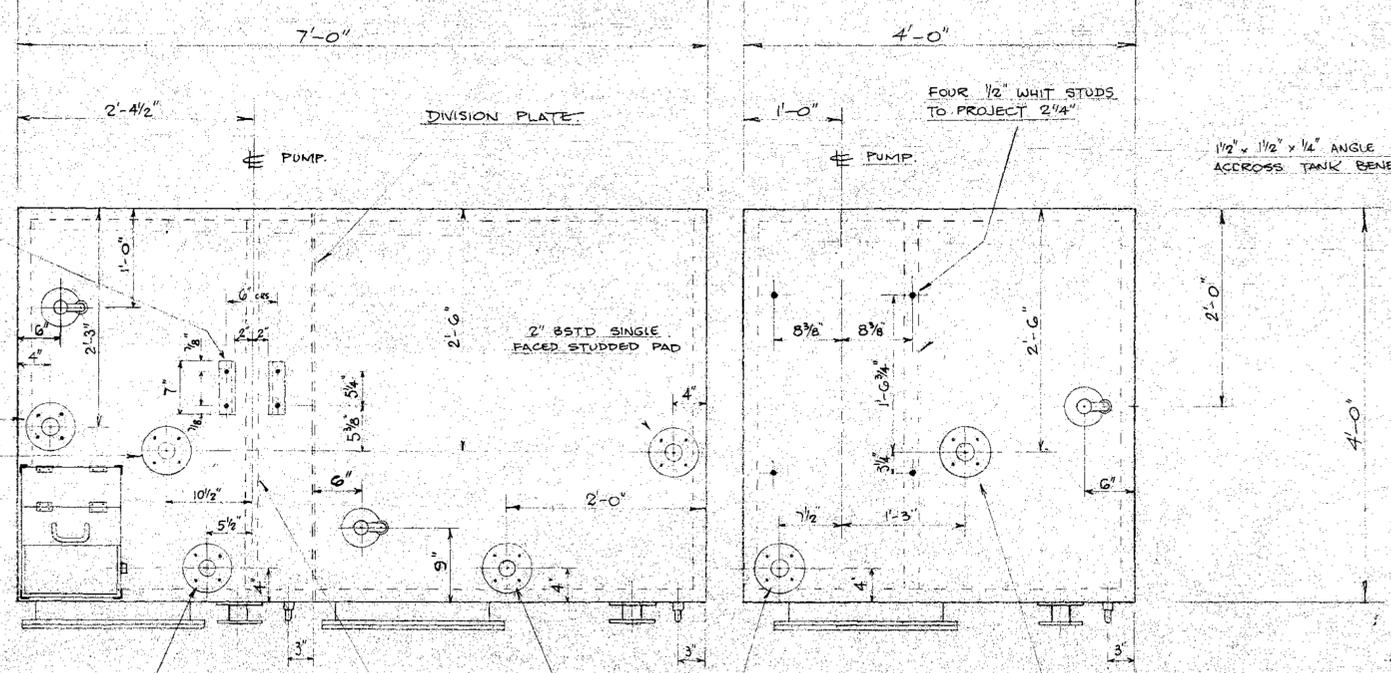
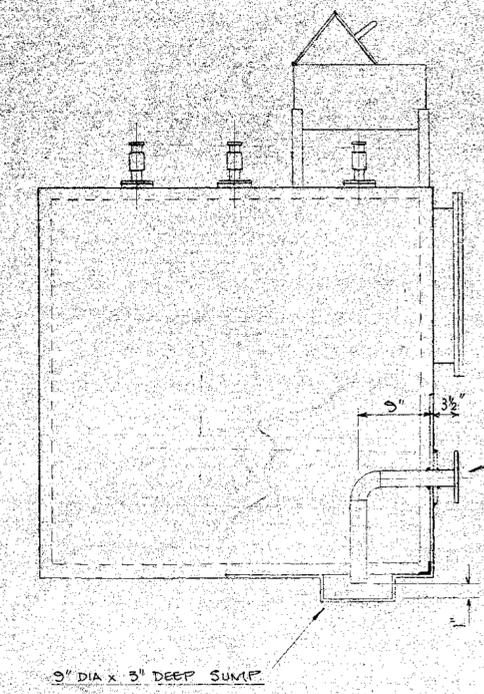
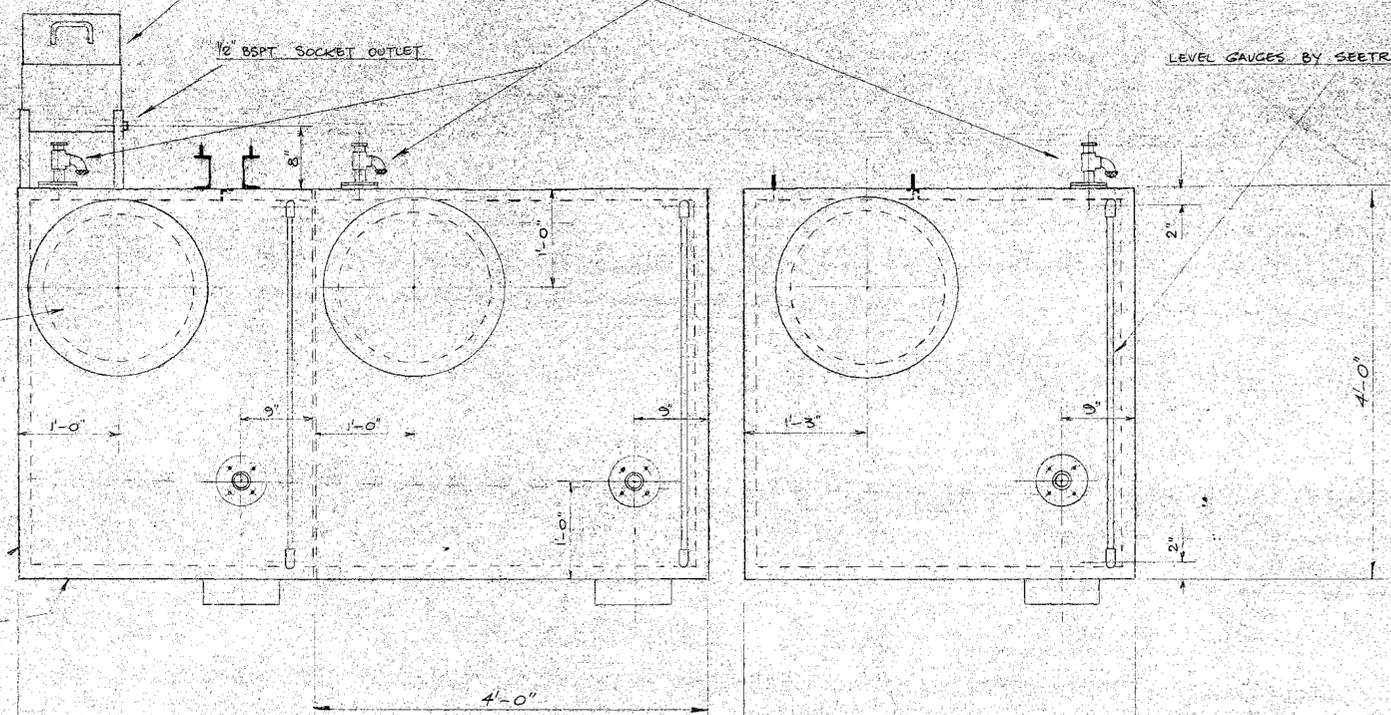
SLUDGE DRAW-OFF'S WERE 2" SCRD. COMBINED AIR VENT & DIP HATCHES WERE AIR VENTS ONLY - POSITIONS ALTERED	REP		22.11.65	3
CHANNEL LENGTHS AND STUD CRS. MOD.	REP		22.9.65	2
REDRAWN. DRC. FINALISED.	REP		5.8.65	1
REVISION	DRN, CH'D, CM'ENG, CLT.	DATE	ISS.	

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT  
 DETAIL OF MULIREX TANKS

GEORGE WIMPEY & CO. LTD.  
 DEPT. 1, M. & E. ENGINEERING DIVISION,  
 FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
1" = 1'-0"	HL 344 D32	3



DETAIL OF TANK CONSTRUCTION

TWO PIECES OF 4" x 2" CHANNEL WELDED TO TANK TOP FOR SUPPORTING PUMP, FITTED WITH 3/8" WHIT. STUDS PROJECTING 1"

2" BSTD SINGLE FACED STUDDED PADS

2" BSTD DOUBLE FACED STUDDED PAD

2" BSTD DOUBLE FACED STUDDED PADS

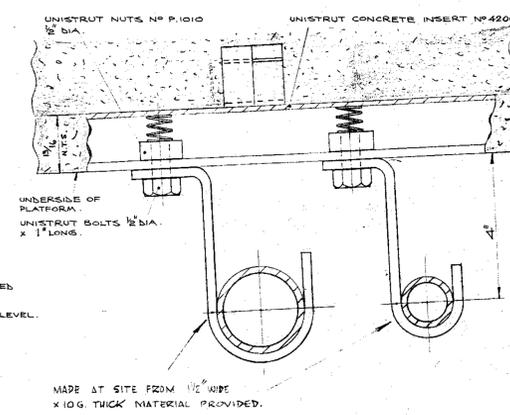
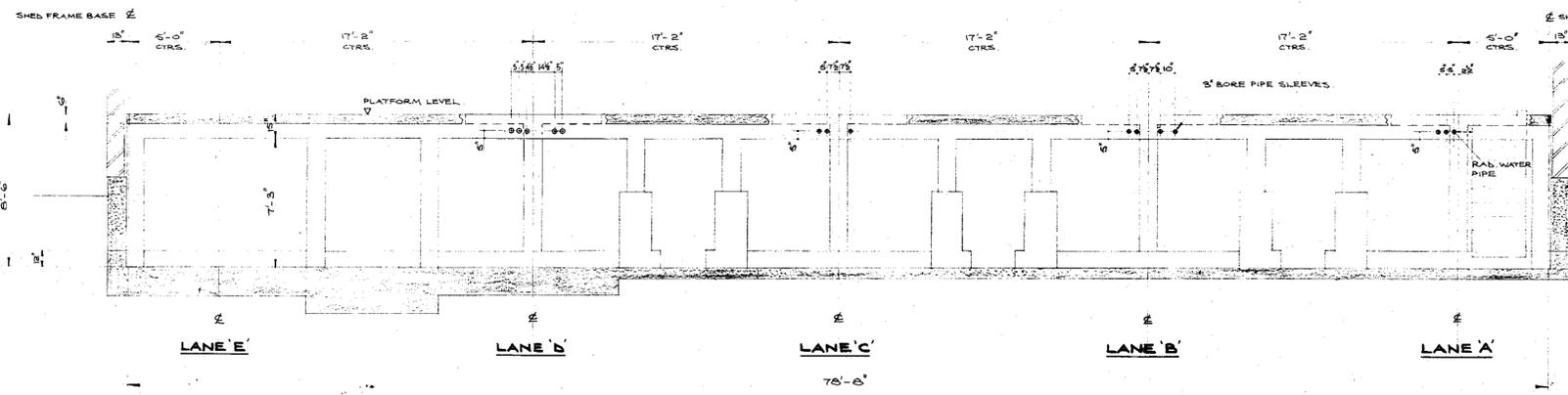
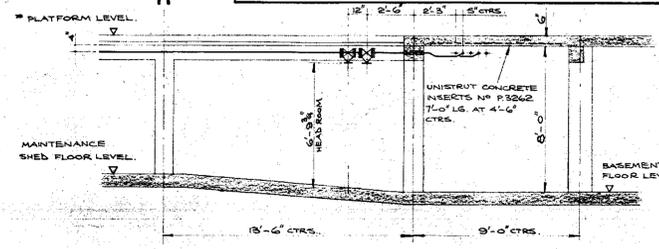
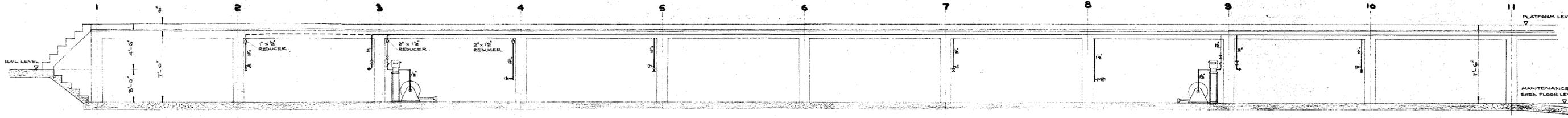
2" BSTD SINGLE FACED STUDDED PAD

1/2" x 1/2" x 1/4" ANGLE BEARER ACCROSS TANK BENEATH TOP COVER.

FOUR 1/2" WHIT STUDS TO PROJECT 2 1/4"

1/2" x 1/2" x 1/4" ANGLE BEARER ACCROSS TANK BENEATH TOP COVER.

SECTION G-G.



SECTION H-H.

DETAIL OF PIPE SUPPORTS

UNDER PLATFORMS.

SCALE: 1/2 FULL SIZE.

REFERENCE DRAWINGS:  
PIPING FLOW DIAGRAM DRG. EL-344-A1  
GENERAL SITE ARRANGEMENT DRG. RL-344-A2  
MAINTENANCE SHED PIPEWORK PLAN DRG. GL-344-P3  
DETAILS OF CONNECTING POINTS ON PLATFORM PILLARS DRG. GL-344-P5



FOR CONSTRUCTION

REVISION	A.C.	12-5-66
CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)	DRN/CH/D/CM/ENG/CLT.	DATE ISS.
MIMMINGHAM DIESEL SERVICING AND MAINTENANCE DEPOT. DIESEL LOCO MAINTENANCE SHED. PIPING ARRANGEMENT (SECTIONS).		
GEORGE WIMPEY & CO. LTD. DEPT. 1, M. & E. ENGINEERING DIVISION, FLYOVER HOUSE, BRENTFORD, MIDDLESEX.		
SCALE	DRAWING NUMBER	ISSUE
1/2 & 1\"/>		

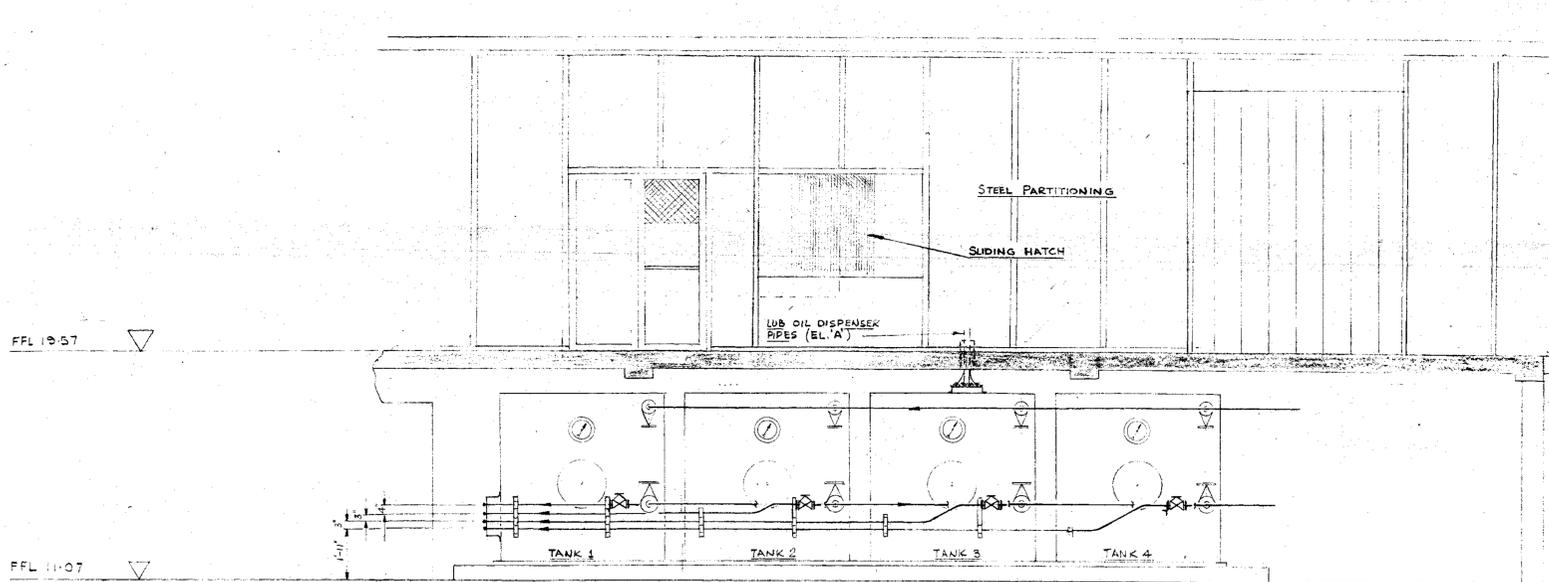
26244

GL-344-P66

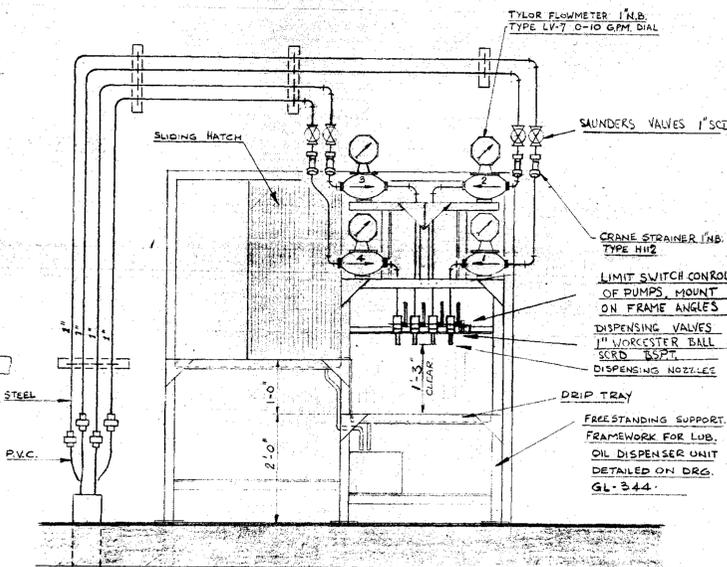
DRAWING NUMBER

REFERENCE DRWGS.

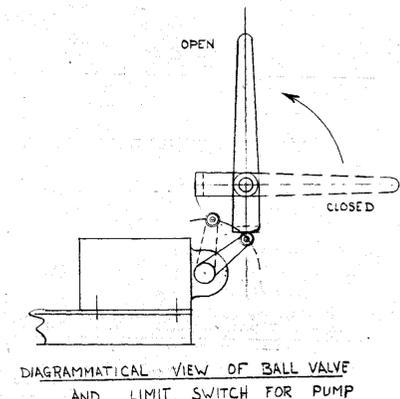
1. ARRST. OF LUBRICATING OIL INSTALLATION  
GL-344-P21
2. PIPE SUPPORTS FOR THIS LAYOUT  
GL-344-H92



ELEVATION OF LUB OIL STORE AND UPPER STORE  
SCALE 3/8" = 1'-0"



ELEVATION IN DIRECTION OF ARROW 'A'  
SHOWING DETAILS OF LUB. OIL DISPENSER  
SCALE 3/8" = 1'-0"



GENERAL PIPING SPECIFICATION

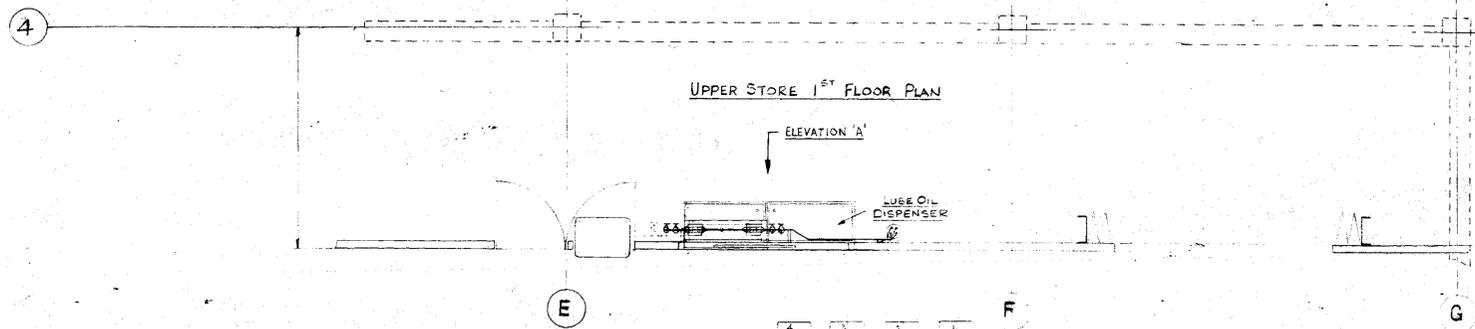
PIPE: HEAVY GAUGE UNPLASTICIZED PVC TO B.S. 3505 (1962)  
VALVES: SAUNDERS C.I. FLG. TYPE 'A' BODY 'C' DIAPHRAGM

GASKETS:

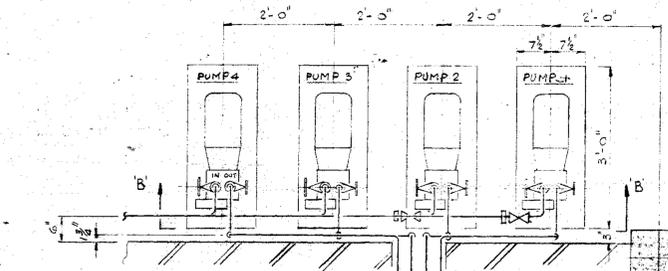
FITTINGS: SOLVENT WELDED

NOTE

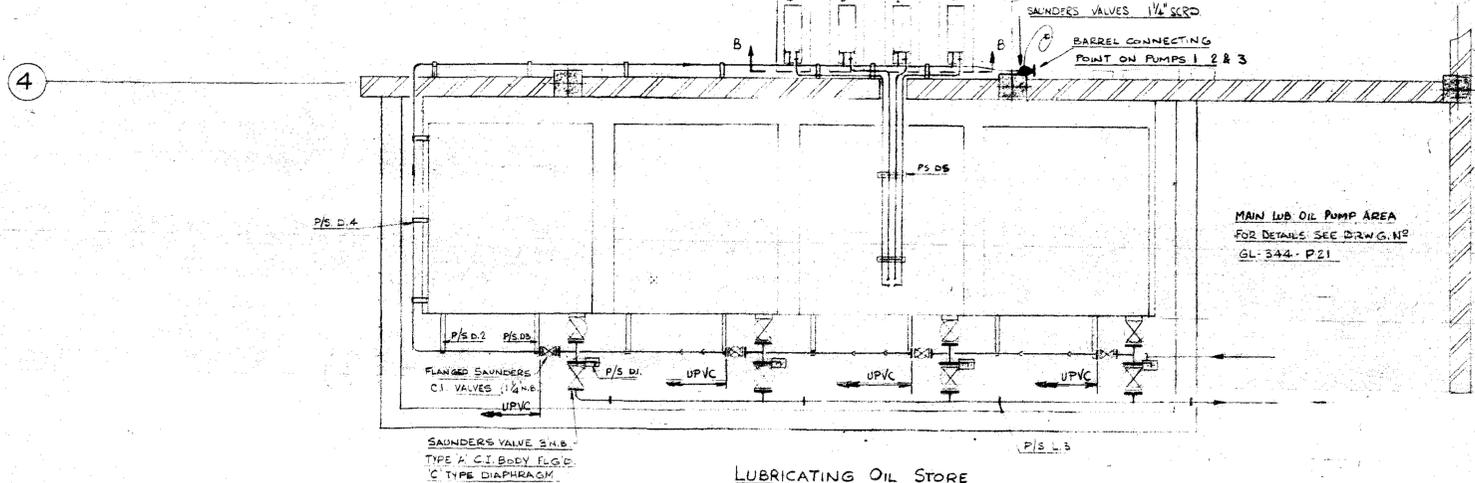
ALL PIPING AT PUMPS AND DISPENSER TO BE MILD STEEL SOLID DRAWN HEAVY WEIGHT TO B.S. 1387 WITH SCRD FLGS TO B.S. 10 PT 2 TABLE 'D' WITH SCRD FITTINGS TO BE 145 150 lb M.I. BANDED TAPER THRC.



UPPER STORE 1<sup>ST</sup> FLOOR PLAN



SECTION B-B  
ELEVATION AND PLAN SHOWING DETAILS  
OF LUBRICATING OIL DISPENSING PUMPS  
SCALE 3/8" = 1'-0"



LUBRICATING OIL STORE  
GROUND FLOOR PLAN  
SCALE 3/8" = 1'-0"



**FOR CONSTRUCTION**

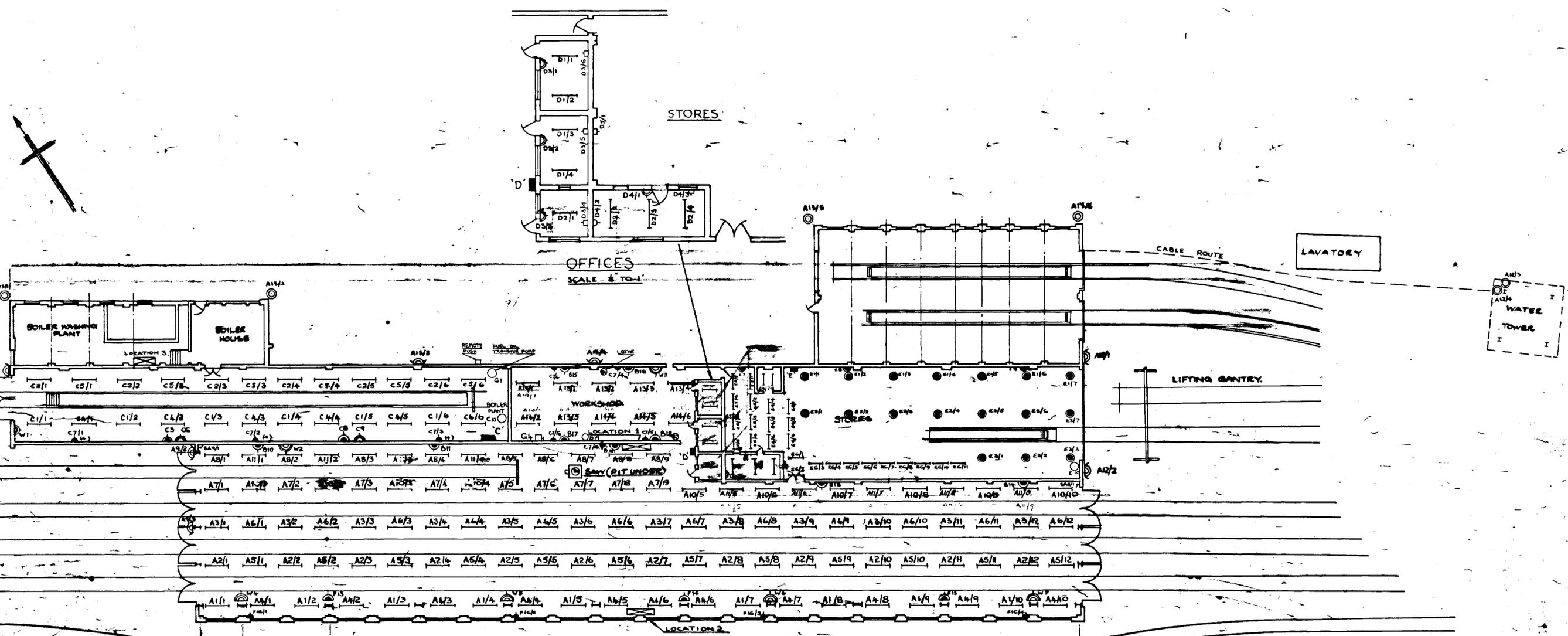
3RD BARREL UNLOADING POINT	ADD	20/4/62	2
PUMP CONTROL	ADD	11/2/46	1
REVISION	DRN/CHD/CD/ENG/CLT	DATE	ISS.

CLIENT: BRITISH RAILWAYS (EASTERN REGION)  
PROPOSED LAYOUT OF LUBRICATING OIL DISPENSER  
FOR IMMINGHAM SERVICING AND MAINT. DEPOT.

GEORGE WIMPEY & CO. LTD.  
DEPT. 1, M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
3/8" = 1'-0"	GL-344-P66	2

26244



- REFERENCE**
- 250W. MBFU BRACKET LTG. POINT.
  - ⊙ 300W. MBFU LIGHTING POINT.
  - 300W. LIGHTING POINT.
  - L.V. SOCKET OUTLET.
  - ▲ 15AMP. SWITCH SOCKET OUTLET.
  - ▲ 15AMP. S.P.M. E.P.U.
  - ▲ 30AMP. S.P.M. E.P.U.
  - ▲ 60AMP. D.P. E.P.U.
  - LOCATION OF HEATERS & MACHINERY.
  - 8 FT. FLUORESCENT FITTING.
  - 4 FT. FLUORESCENT FITTING.
  - DISTRIBUTION BOARD.
  - SWITCHBOARD.
  - 15AMP. SWITCHED INDICATOR FLEX OUTLET SPUR.

30122

T.W.SAMPSON & CO. LTD. ELECTRICAL ENGINEERS PITT STREET SHEFFIELD, T.			
DRAWN BB	TRACED	APPROVED RD	DATE 1 APRIL 1967
DRG. No RD/BB/24		RECORD DRAWING	

BRITISH RAILWAYS BOARD CHIEF MECHANICAL & ELECTRICAL ENGINEER. EASTERN REGION OUTDOOR MACHINERY SECTION DONCASTER.			
IMMINGHAM WAGON REPAIR DEPOT			
ELECTRICAL INSTALLATION.			
SCALE: 1" = 16'-0"			
DRG. No 6/331-4	REF. 23/17/1732	DATE: 20.4.66.	APPROVED: FORR. SCOTT.
DRAWN:	TRACED: \$	CHECKED: \$	

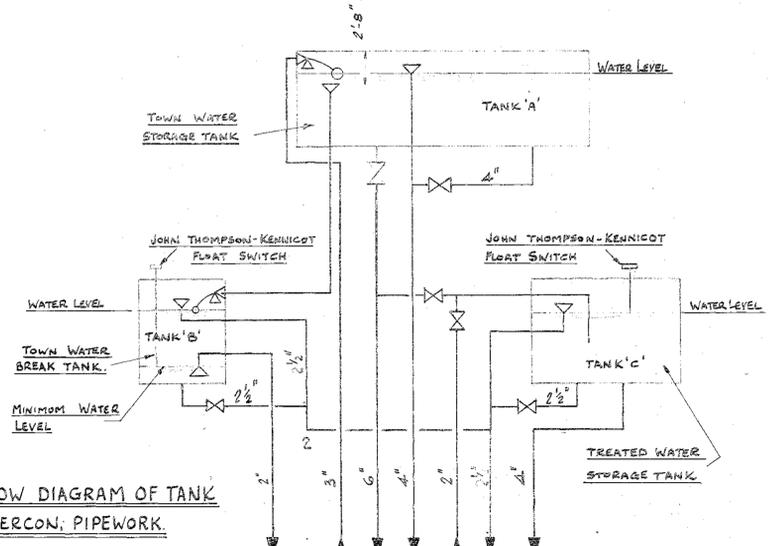
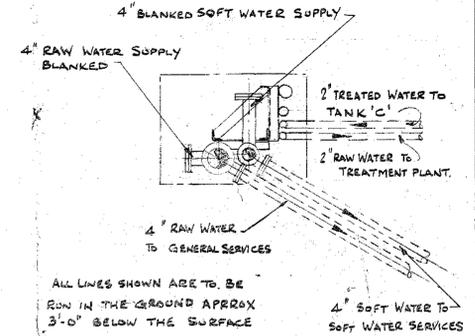
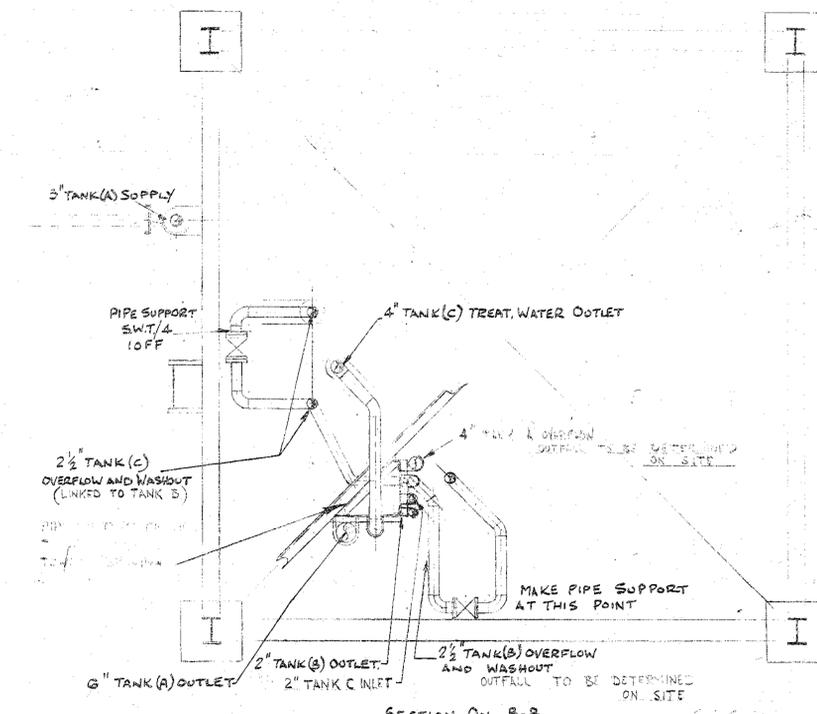
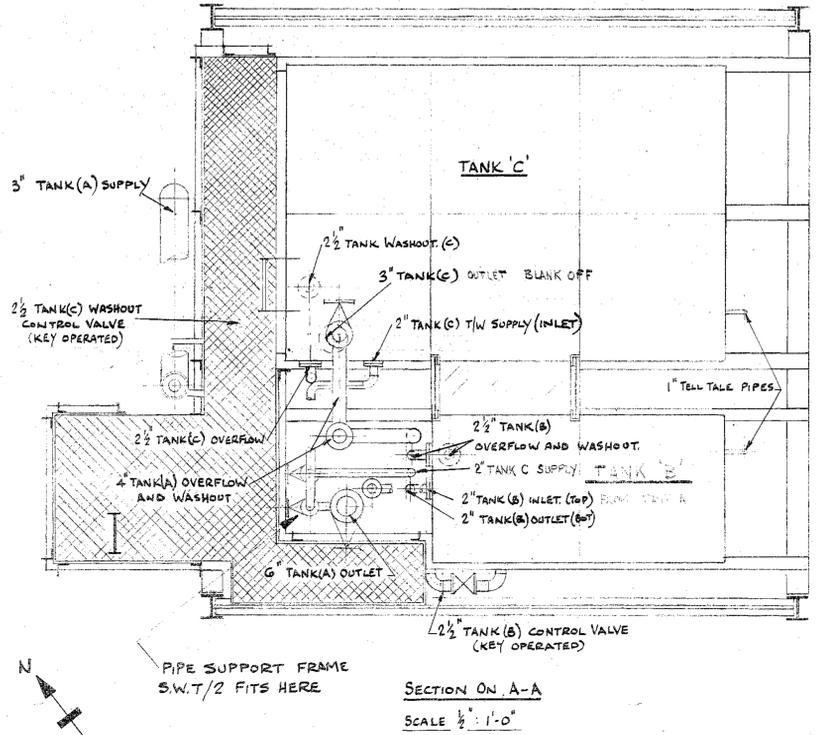
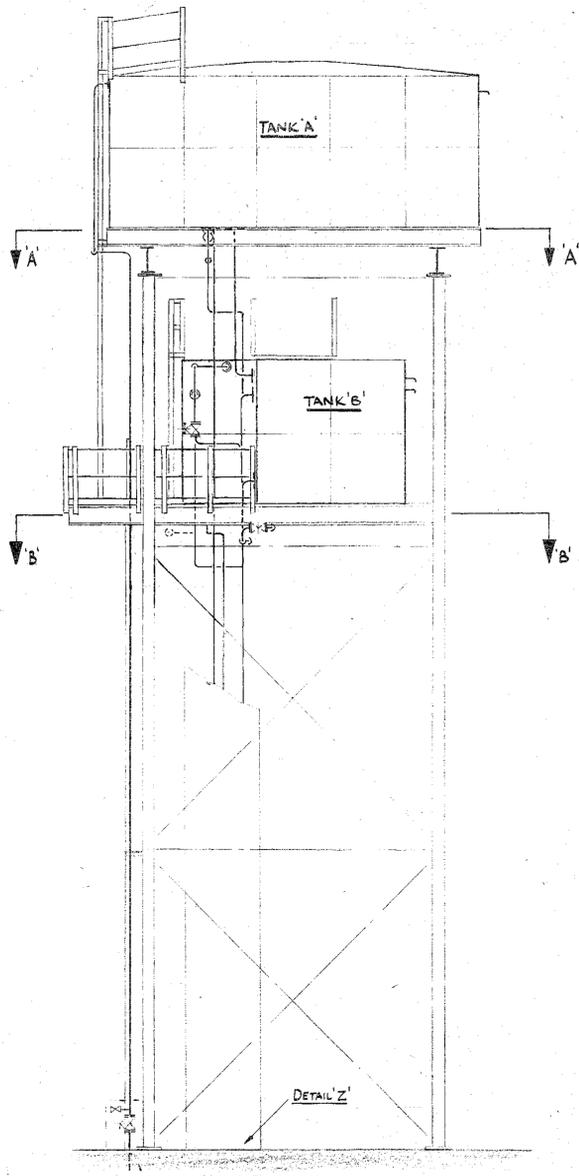
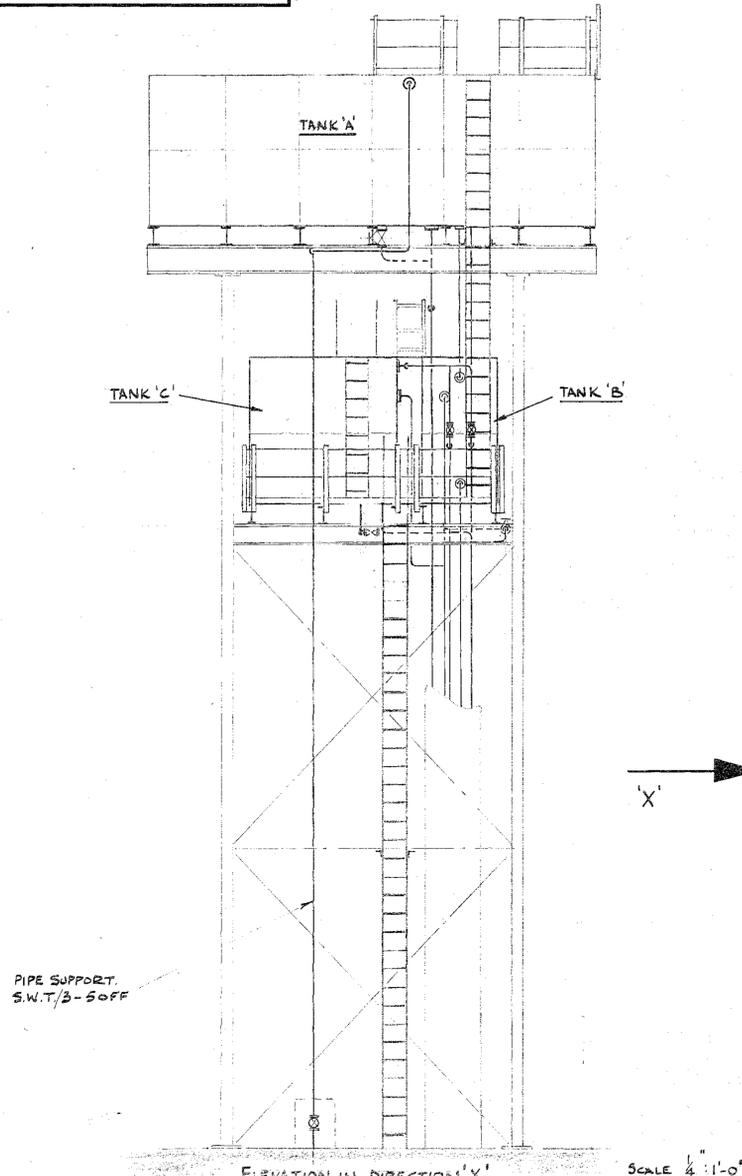


08422-1

ME306



- NOTES
1. FOR DETAIL OF PIPE SUPPORTS SEE DRG. N° GL. 344. D93
  2. FOR DETAILS OF LINES FROM TOWER TO W/T PLANT SEE DRG GL. 344. D93
  3. ALL VALVES ARE TO BE SANDWICH TYPE 'A' BODY WITH 'S' DIAPHRAGM, EXCEPT ON THE TOWN WATER SUPPLY TO TANK 'A' WHERE A HATTERSLEY C.T. GATE VALVE IS TO BE USED.
  4. TOWN WATER SUPPLY TO TANK 'A' AND OUTLET TO DOMESTIC SERVICES TO BE IN CAST IRON



LINE N°	SIZE N°	DIRECTION OF FLOW FROM	TO
1	2"	BREAK TANK (B)	W/T PLANT.
2	2 1/2"	BREAK TANK OVERFLOW	DRAIN
3	3"	WATER BOARD MAIN	TOWN WATER STORAGE TANK
4	6"	TOWN WATER STOR. TANK	GENERAL SERVICES
5	4"	" " TANK OVERFLOW	DRAIN
6	2"	WATER TREAT. PLANT	TREAT WATER TANK (C)
7	2 1/2"	TREAT WATER TANK OVERFLOW	DRAIN
8	4"	" " "	SOFT WATER SERVICES
9	2"	TOWN WATER STOR. TANK	TANK 'B'

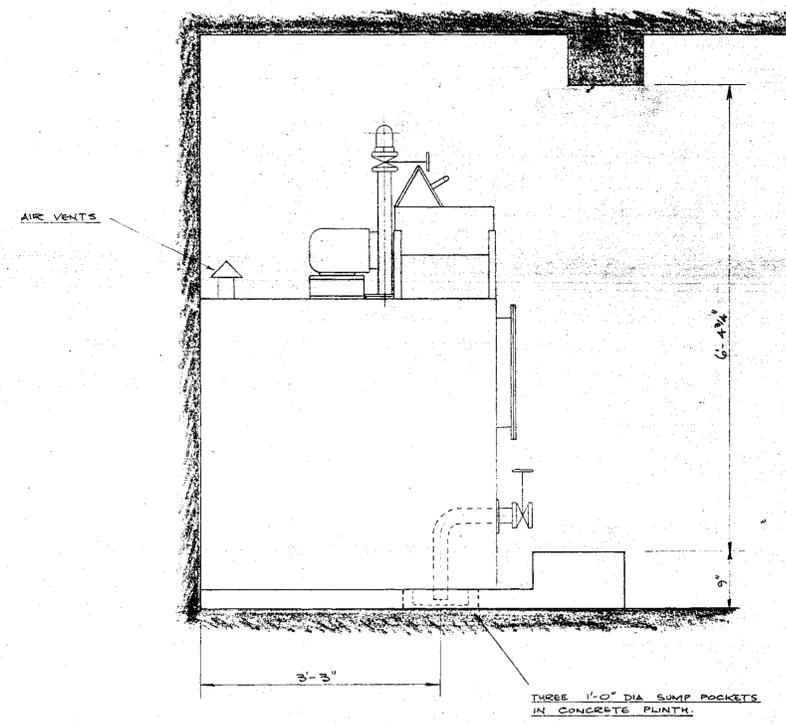
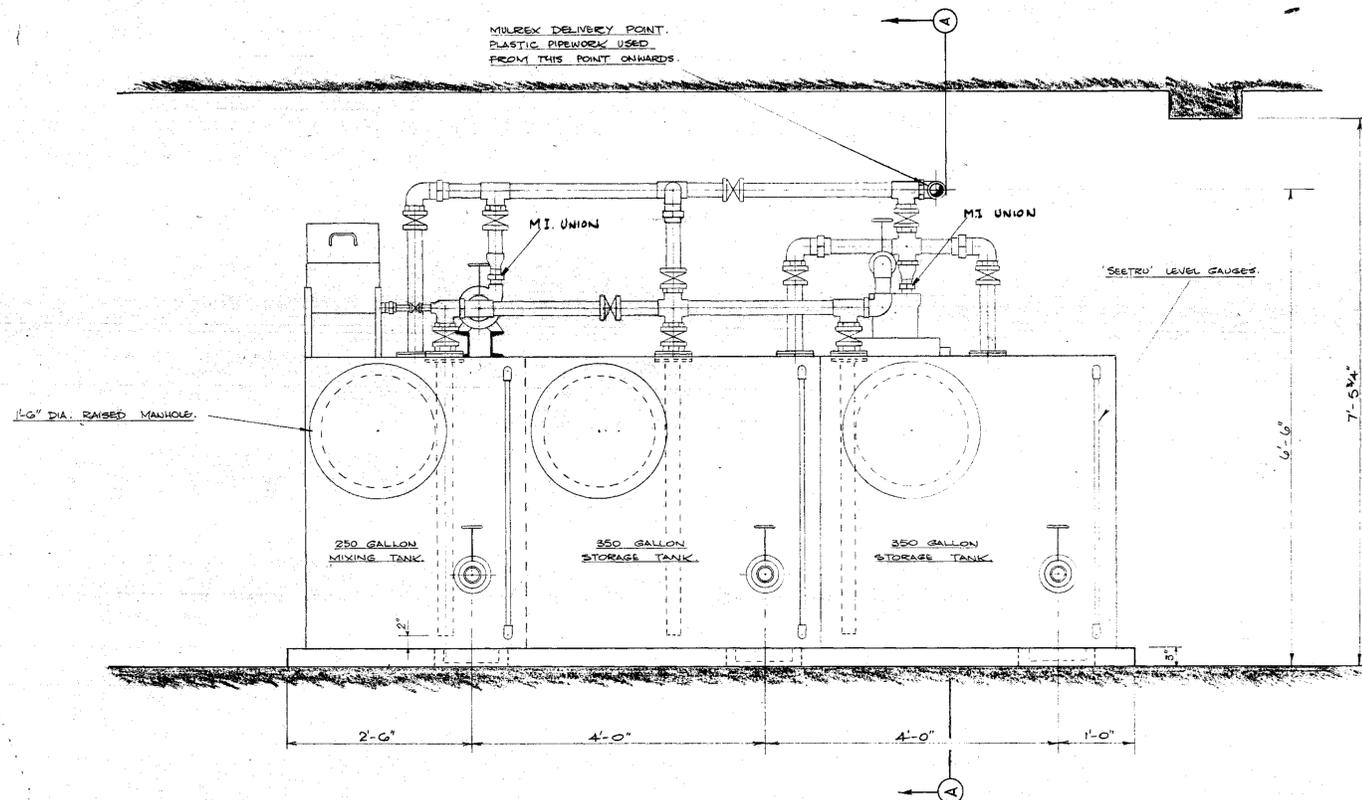
THERE IS ALSO A WASHOOT LINE FROM THE BOTTOM OF EACH TANK INTO THE OVERFLOW LINE

PRELIMINARY PRINT

RAIL TRACK 227635LINE		PIPEWORK REVISED TO SUIT CI MAIN AREL	12/4/46
REVISION	DRN/CHD/CI/MENG/CLT	DATE	ISS
CLIENT: BRITISH RAILWAYS (EASTERN REGION)			
IMMINGHAM DIESEL SERVICING AND MAINTEN. DEPOT			
ARRGT. OF PIPEWORK ON WATER TOWER			
GEORGE WIMPEY & CO. LTD.			
DEPT. 1, M. & E. ENGINEERING DIVISION, FLYOVER HOUSE, BRENTFORD, MIDDLESEX.			
SCALE	DRAWING NUMBER	ISSUE	
1/2":1'-0" 1/4":1'-0"	GL 344 D92	1	

GL-344-P31  
DRAWING NUMBER

CONTRACT DRAWING No 131

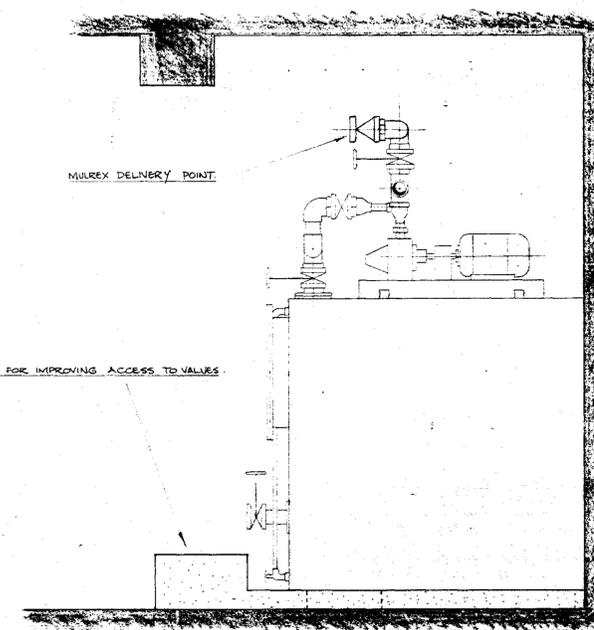
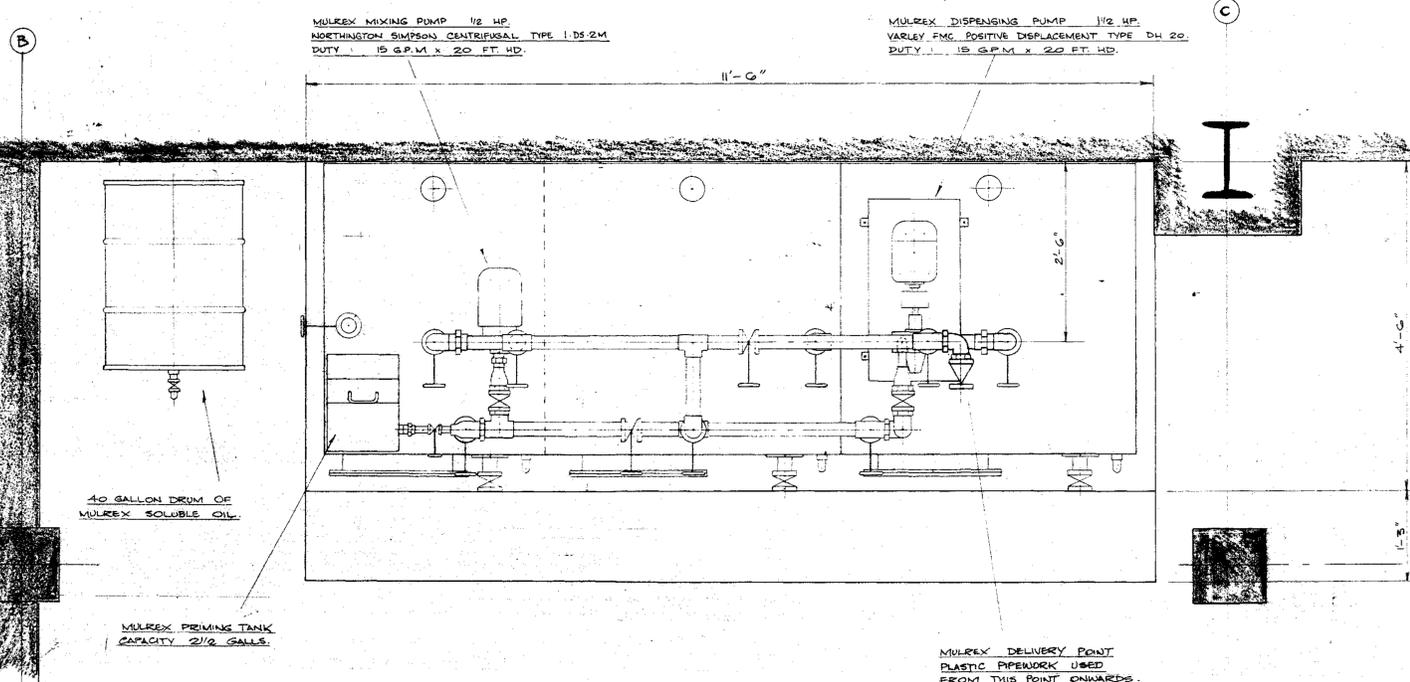


GENERAL PIPING SPECIFICATION

PIPE M.S. SOLID DRAWN HEAVYWEIGHT TO BS 1387.  
VALVES SANDERS SCRD. C.I. TYPE 'A' DIAPHRAGM.  
FITTINGS 150 lb M.I. BANDED SCRD BRST TAPER TO BS 143.  
FLANGES (TANK CONNECTIONS) SCRD BS 10 PART 2 TABLE 'D'

REFERENCE DRAWINGS

FOR FLOW DIAGRAM SEE EL 344-A1  
FOR GENERAL ARR. SEE RL 344-A2



VIEW ON A-A



FOR CONSTRUCTION

PIPE NO. & M.S. W. NO.	REVISED	DATE

CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION)

IMMINGHAM DIESEL SERVICING & MAINTENANCE DEPOT.  
ARRT. OF MULREX INSTALLATION.

GEORGE WIMPEY & CO. LTD.  
DEPT. 1, M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

SCALE	DRAWING NUMBER	ISSUE
1"=1'-0"	GL-344-P31	

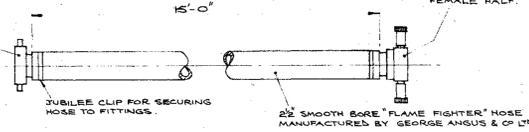
26244

CRANE TYPE B.447 HOSE FITTING  
2 1/2 B.S.P. FEMALE HALF.

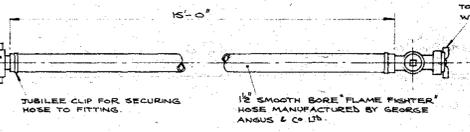
CRANE TYPE B.446 STANDARD  
2 1/2 INSTANTANEOUS COUPLING  
FEMALE HALF.

CRANE TYPE B.447 HOSE  
FITTING 1 1/2 B.S.P. FEMALE HALF.

RADIATOR FILLING COCK  
TO B.S.P. REG. NO. 9.50.  
WITH BUST CAP.

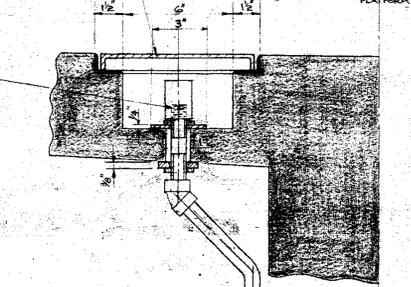


HOSE FOR BOILER WATER POINT.  
SCALE: 1 1/2" TO 1 FOOT.

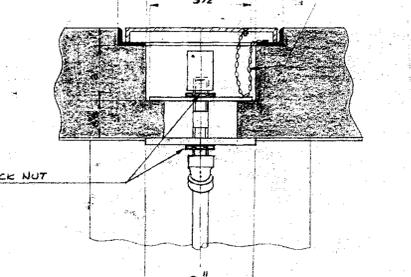


HOSE FOR RADIATOR WATER POINT.  
SCALE: 1 1/2" TO 1 FOOT.

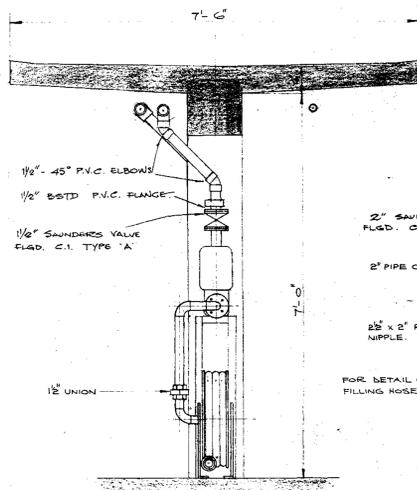
SUITABLE COVER OVER  
RECESS.



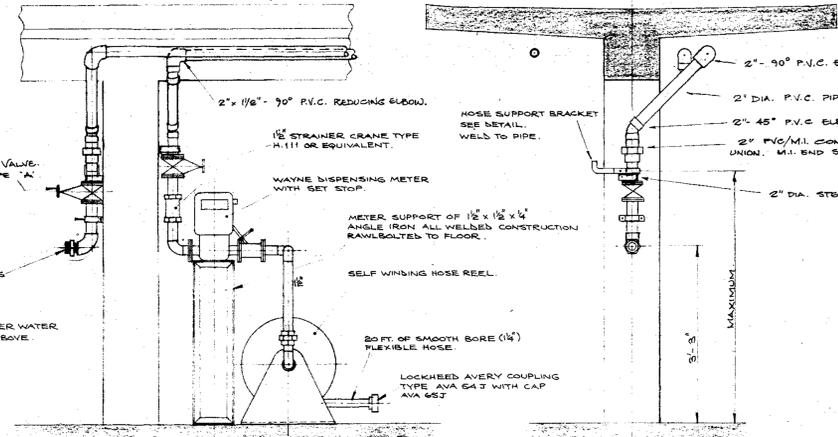
1/2" B.S.P. SCHRAEDER HEAVY DUTY  
CHUCK UNIT, NO. 146/18-12



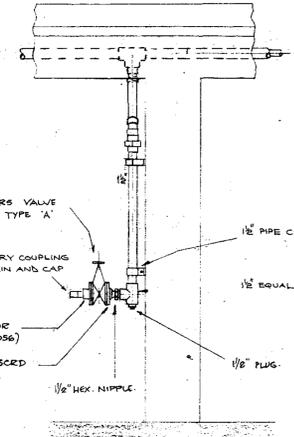
DETAIL OF COMPRESSED AIR POINT  
IN PLATFORM.  
SCALE: 1/4" FULL SIZE.



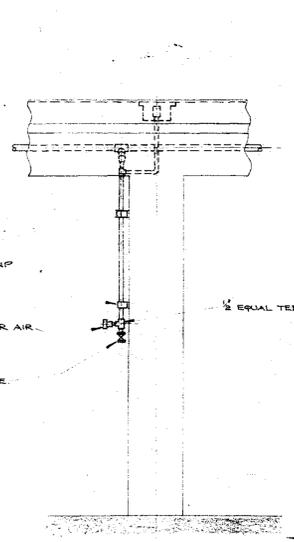
BOILER WATER  
N° OFF 3



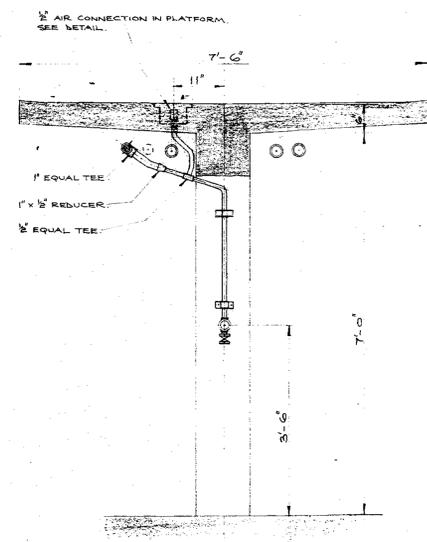
LUBRICATING OIL  
N° OFF 4



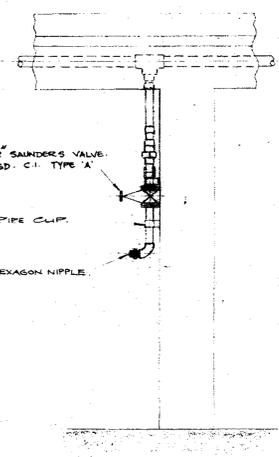
WASTE OIL  
N° OFF 4



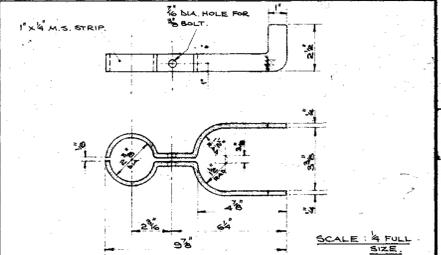
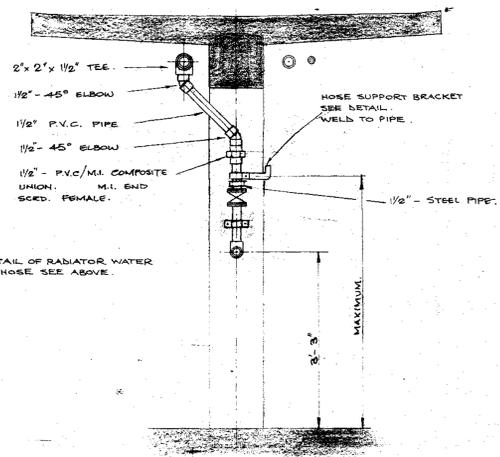
COMPRESSED AIR  
N° OFF 18



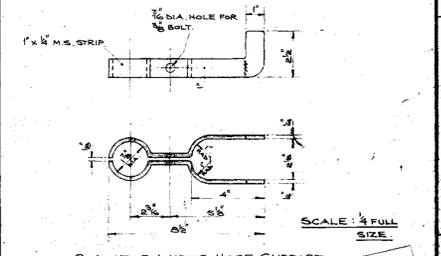
NOTE  
WHERE POSSIBLE VERTICAL LINES TO  
DISPENSERS SHOULD HAVE 2 PIPE CLIPS,  
AS SHOWN ON DRG CL-344-HB3



RADIATOR WATER (MULREX)  
N° OFF 5



BOILER WATER HOSE SUPPORT  
BRACKET.  
SCALE: 1/4" FULL SIZE.



RADIATOR WATER HOSE SUPPORT  
BRACKET.  
SCALE: 1/4" FULL SIZE.

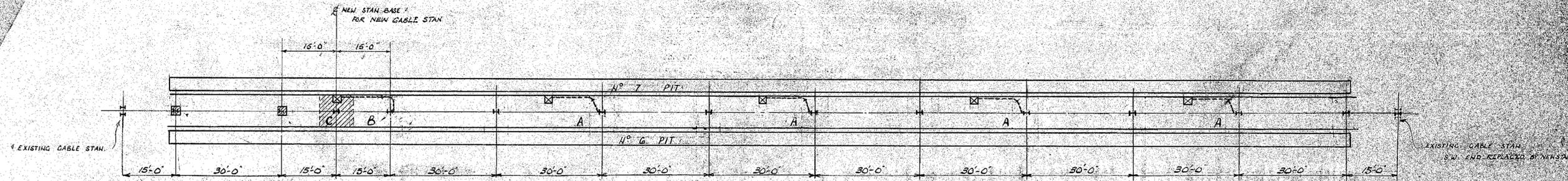
FOR  
CONSTRUCTION

ADST PIS	MODIFY AIR POINT IN PLAT.	PC 1/2	18-2/4
REVISION	DAN CH/D.C. DM/ENG. CLT. DATE	ISS.	

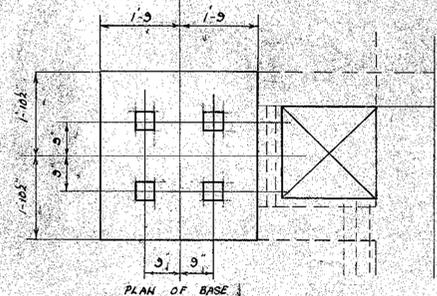
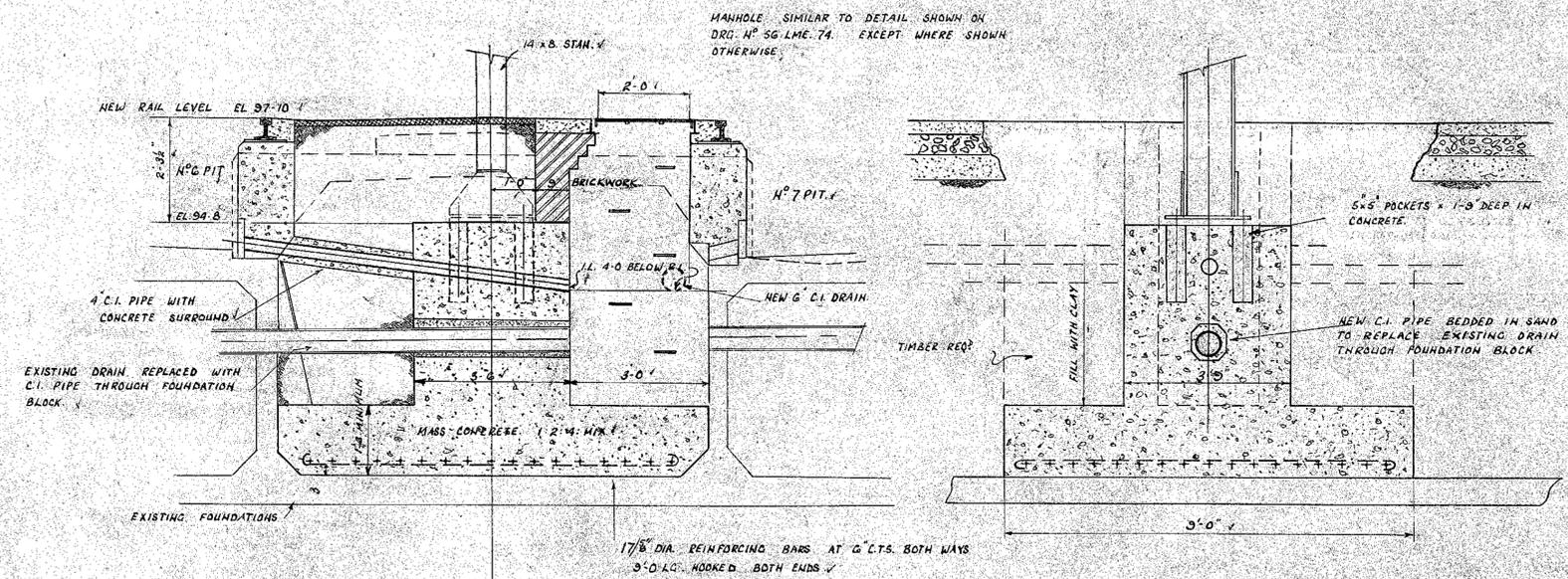
CLIENT: BRITISH RAILWAYS BOARD (EASTERN REGION).  
IMMINGHAM DIESEL SERVICING AND MAINTENANCE DEPOT  
ARRANGEMENT OF CONNECTING POINTS UNDER  
PLATFORMS IN LOCO MAINTENANCE SHED.

GEORGE WIMPEY & CO. LTD.  
DEPT. 1, M. & E. ENGINEERING DIVISION,  
FLYOVER HOUSE, BRENTFORD, MIDDLESEX.

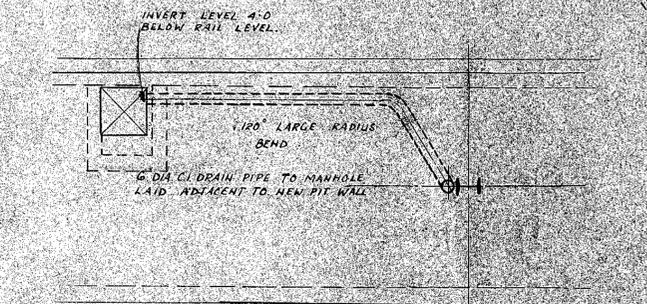
SCALE	DRAWING NUMBER	ISSUE
3/4" TO 1 FOOT.	GL-344-PS.	1



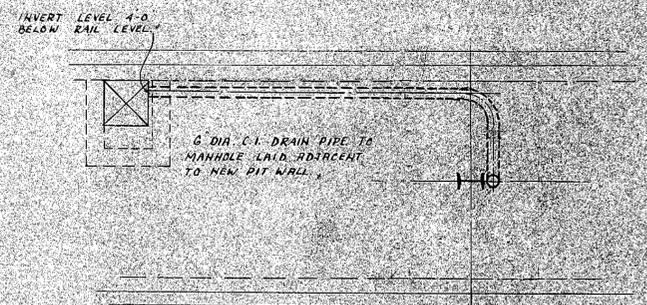
PLAN OF NO. 6 & 7 PITS SHOWING DRAINAGE TO MANHOLES.



FOUNDATION FOR NEW GABLE STANCHION AT C.



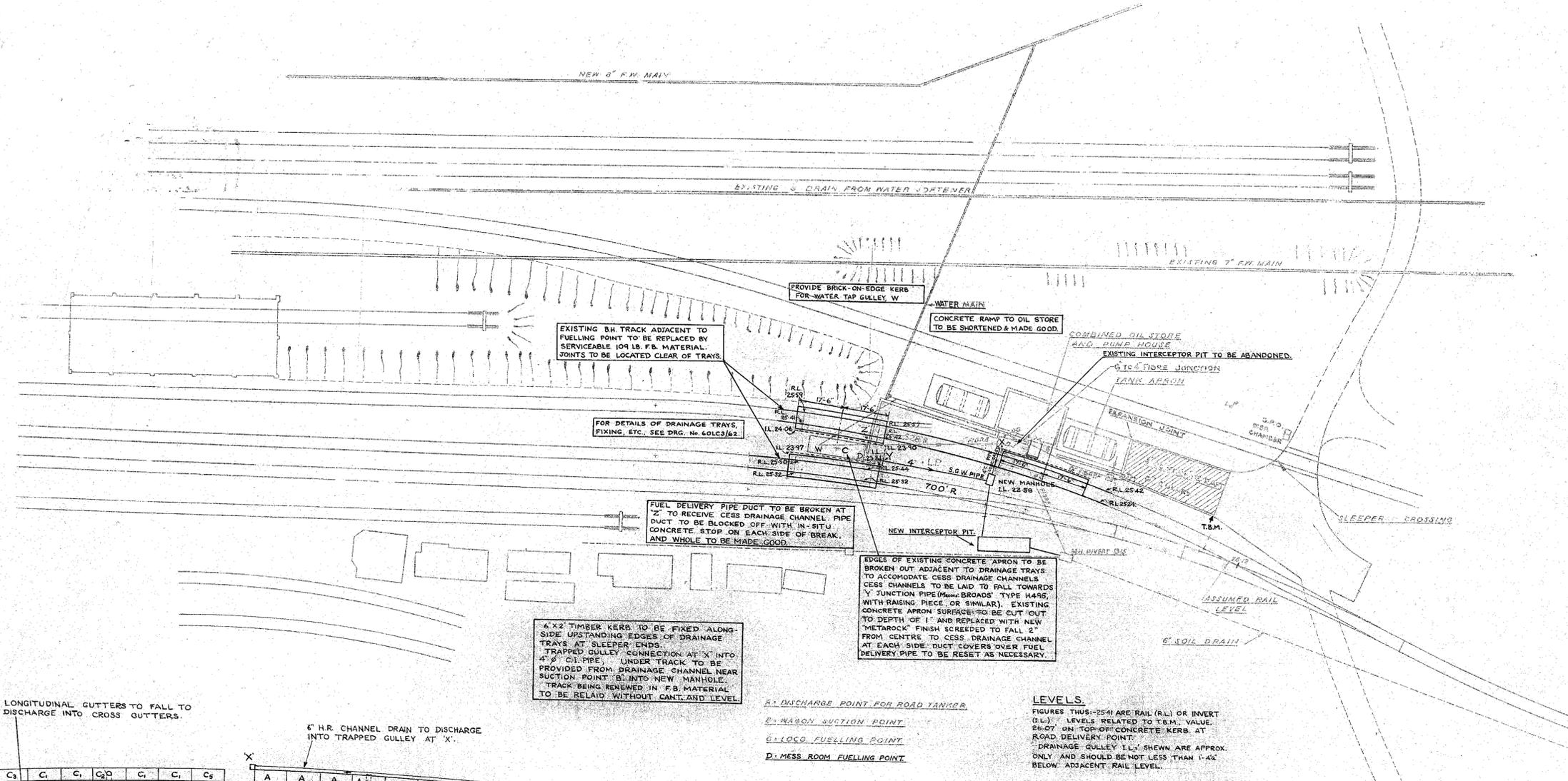
DETAIL A



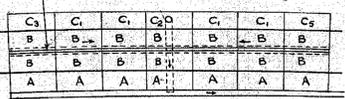
DETAIL B

DETAILS OF C.I. DRAINS TO BE LAID

B.T.C. BRITISH RAILWAYS CHIEF ENGINEER'S DEPT.		EASTERN REGION KINGS CROSS STATION	
REVISED	IMMINGHAM M.P.D. RECONSTRUCTION OF ENGINE SHED ROOF NEW STANCHION BASE & DRAINAGE REQUIRED FOR RECONSTRUCTION OF ROOF.		
D.E. CORR	C.E.	APPROVED	SCALES
L.R.R.	J.H.		1/4" = 1'-0"
SHEET 7 OF 12		C.E. No. 56 LME B. 1128	

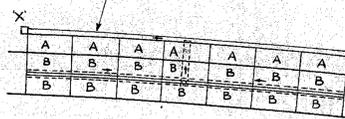


LONGITUDINAL GUTTERS TO FALL TO DISCHARGE INTO CROSS GUTTERS.

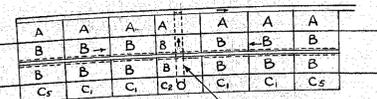


AT FUELLING POINT

6" H.R. CHANNEL DRAIN TO DISCHARGE INTO TRAPPED GULLEY AT 'X'.

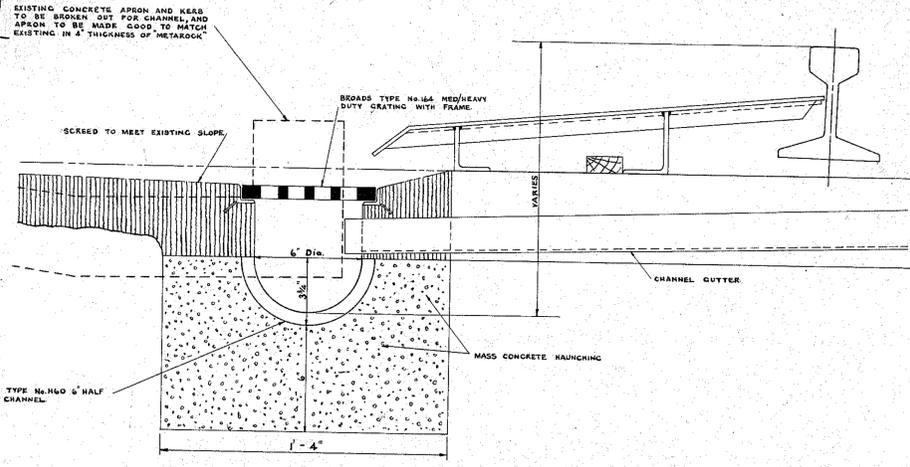


AT SUCTION POINT



CROSS-GUTTERS TO FALL TOWARDS OPEN CHANNEL.

ARRANGEMENT OF DRAINAGE TRAY UNITS.



- A. DISCHARGE POINT FOR ROAD TANKERS.
- B. MASON SUCTION POINT.
- C. LOCO. FUELLING POINT.
- D. MESS ROOM FUELLING POINT.

**LEVELS.**  
 FIGURES THUS: 2541 ARE RAIL (R.L.) OR INVERT (I.L.) LEVELS RELATED TO T.B.M. VALUE. 2547 ON TOP OF CONCRETE KERB AT ROAD DELIVERY POINT.  
 DRAINAGE GULLEY I.L.'S SHOWN ARE APPROX. ONLY AND SHOULD BE NOT LESS THAN 1-4\"/>

THIS DRAWING TO BE READ IN CONJUNCTION WITH:-  
 DRG. No. 60 LGS/62 (DETAILS OF DRAINAGE TRAYS)  
 DRG. No. 60 LME STANDARD DIESEL INTERCEPTOR PIT.  
 DRG. No. 55 LME 44C (MANHOLE DETAILS) - CESS TYPE.

S.I.C. BRITISH RAILWAYS EASTERN REGION  
 CHIEF CIVIL ENGINEER'S DEPT. PLYMOUTH CROSS STATION

REVISED

**LIMMINGHAM**

**DIESEL FUELLING POINT**

**PROVISION OF DRAINAGE TRAYS**

APPROVED 22 APR 60 SCALE 3 INCH TO 1 FOOT

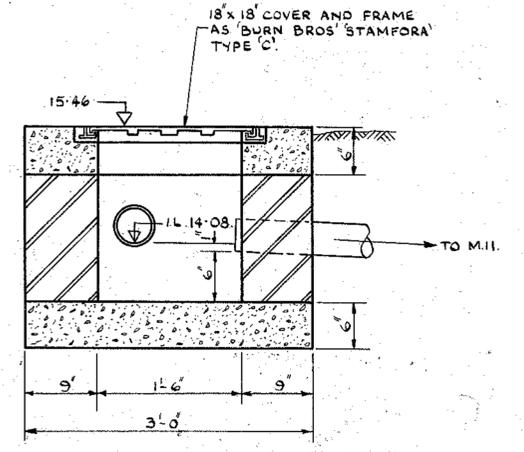
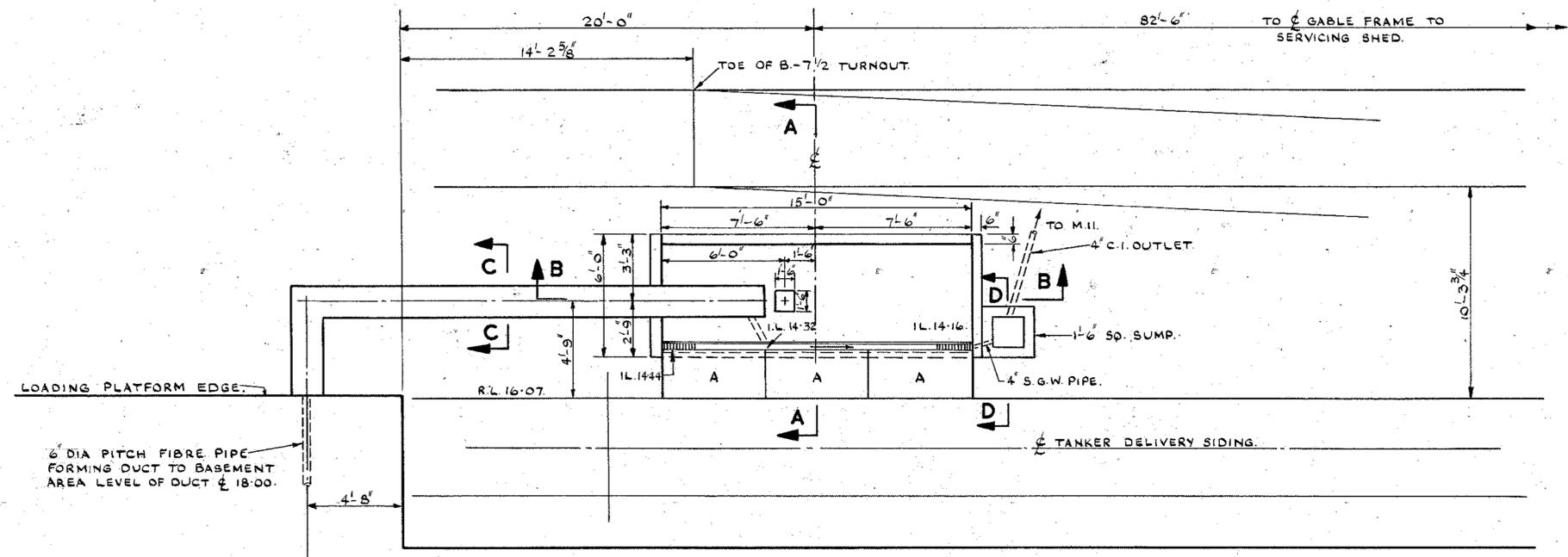
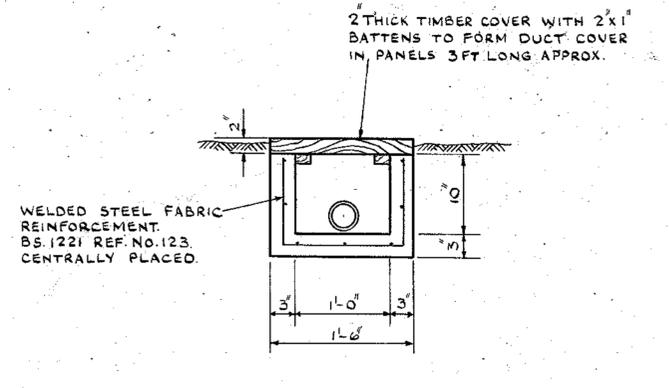
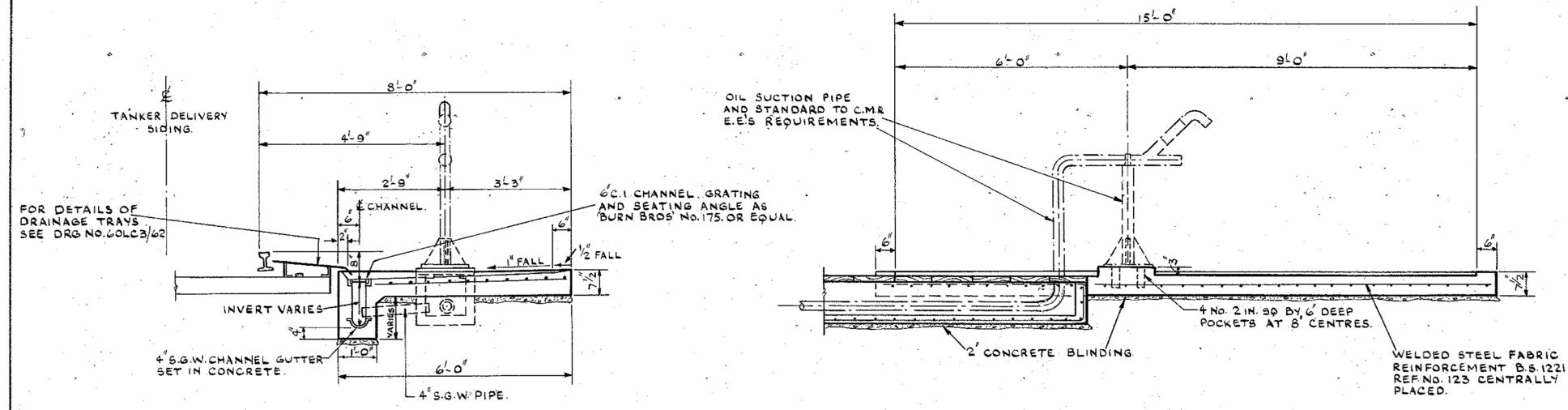
VE 36945

V.G. ASST. ENGINEER (W.M.)

C708  
 60 LME 50

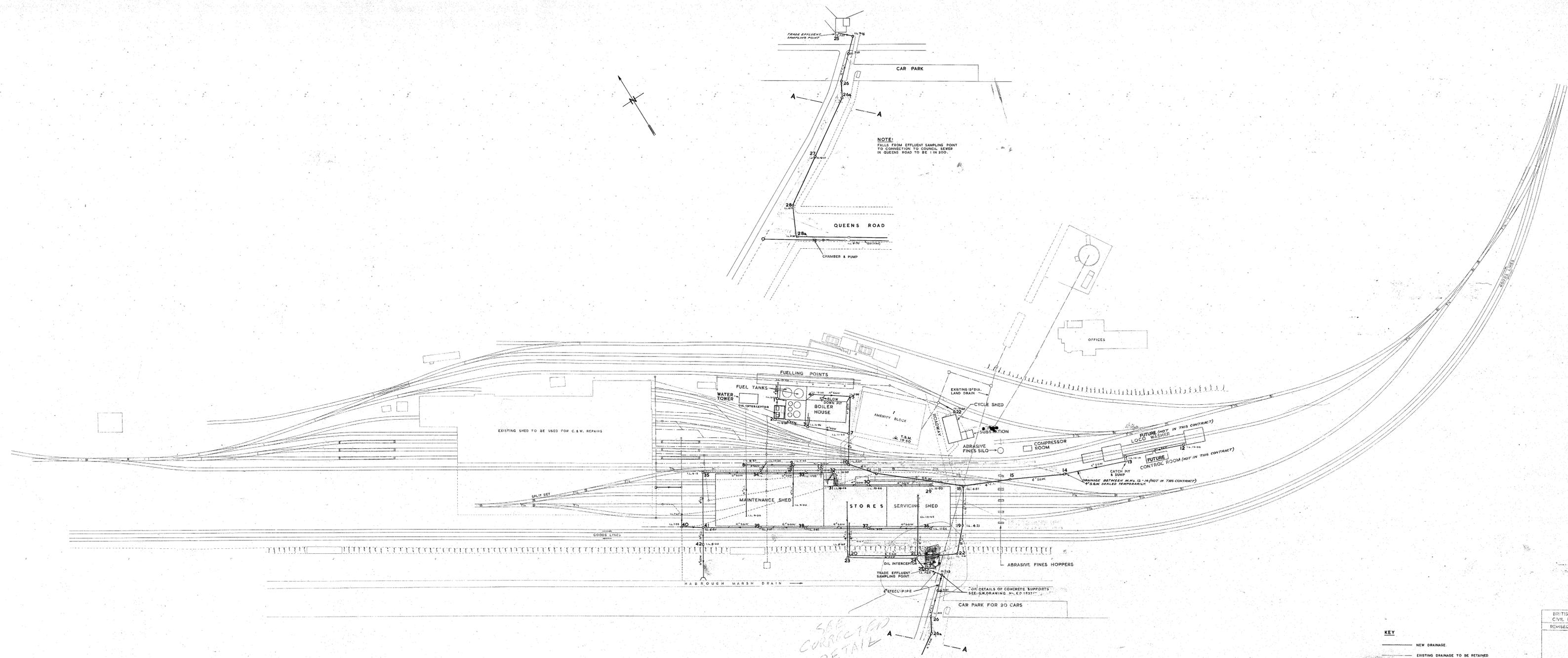
PH 708 E765/2

**CONTRACT  
DRAWING No.146.**



BRITISH RAILWAYS BOARD. CIVIL ENGINEER'S DEPT.		EASTERN REGION KING'S CROSS STATION	
REVISED		<b>IMMINGHAM.</b>	
		<b>DIESEL MAINTENANCE AND SERVICING DEPOT.</b>	
		<b>LUBRICATING OIL OFF-LOADING POINT.</b>	
D.E.   CORRES.   C.E.	APPROVED	4. 10. 65	SCALES— 1/4", 1/2", 3/4", 1" = 1 FT
NW 27568	N.J.N.		
A. I.	D.S.	J. D. WEST	DE'S No.
M.L.		C.E. (MOD)	CE'S No.
SHEET OF		CIVIL ENGINEER	<b>65NW/307</b>

E 765/3 B.R. 906/28 6709



- NOTES:**
1. ALL PIPES TO BE CAGED IN CONCRETE 6" THICK.
  2. CONCRETE TO BE 1:2:4 (1:1) MIX.
  3. ALL FALLS ARE 1 IN 100 UNLESS OTHERWISE SPECIFIED.
  4. INVERT LEVELS SHOWN THIS IS 9' 11", AND INDICATE THE LEVEL OF OUTLET PIPE.
  5. ALL LEVELS REFER TO GROUND DATUM NEWLYN.
  6. T.B.M. 1920 ON STEP OF AMENITY BLOCK FOYER.
  7. ALL PIPES PASSING UNDER TRACKS TO BE C.I. AND HAVE INVERT LEVELS 4'0" MIN. BELOW RAIL LEVEL.
  8. ALL EXPOSED PIPES TO HAVE FIBRE GLASS LAGGING 2" THICK WRAPPED IN LASSO.
  9. FOR DETAILS OF OIL INTERCEPTORS SEE DRG. NO. 60LCM275.
  10. FOR DETAILS OF OIL INTERCEPTOR LAYOUTS SEE DRG. NO. 60LCM275 & 1.
  11. WHERE NEW DRAINS CONNECT TO AND RECEIVE FROM EXISTING DRAINS THE NEW DRAINS TO BE AT LEAST THE DIAMETER OF THE EXISTING DRAINS.

SEE CORRECTED  
DETAIL

**KEY**

—	NEW DRAINAGE
—	EXISTING DRAINAGE TO BE RETAINED
- - -	EXISTING DRAINAGE TO BE ABANDONED

BRITISH RAILWAYS BOARD EASTERN REGION  
CIVIL ENGINEER'S DEPT. KING'S CROSS STATION

REVISED

**IMMINGHAM  
DIESEL MAINTENANCE AND  
SERVICING DEPOT  
DRAINAGE LAYOUT**

D.A.	CORPUS C.E.	APPROVED	20. 4. 65	SCALE	40 FEET TO 1 INCH
A.B.	NOV 27 68	M.J.M.			
RAH.B.					

65/NW/48

P11709 E765/3

(FOR DETAILS SEE PLAN No. 6OLC3/62E)

### SCHEDULE OF COMPONENTS

CONTRACT DRAWING No.40.

LOCATION	TRAY TYPE											STRAP TYPE			GUTTER - LENGTH 'L'				REMARKS
	A	B	C <sub>1</sub>	C <sub>2</sub>		C <sub>3</sub>	C <sub>4</sub>		C <sub>5</sub>	C <sub>6</sub>		A	B	C	G <sub>1</sub>	G <sub>2</sub>	G <sub>3</sub>	G <sub>4</sub>	
				No.	'X'		No.	'X'		No.	'X'				L=9'-0"	L=12'-5"	L=5'-6"	L=17'-1"	
<b>IMMINGHAM DIESEL MAINTENANCE AND SERVICING DEPOT</b>																			
<b>TANKER DELIVERY SIDING</b>	30	60	22	6	2'-6"	1	-	-	1	-	-	29	58	29	6	12	-	-	1,392
<b>FUELLING POINT</b>	14	14	-	-	-	-	-	-	-	-	-	12	12	-	-	-	2	2	288
<b>TOTAL</b>	44	74	22	6	-	1	-	-	1	-	-	41	70	29	6	12	2	2	1,680

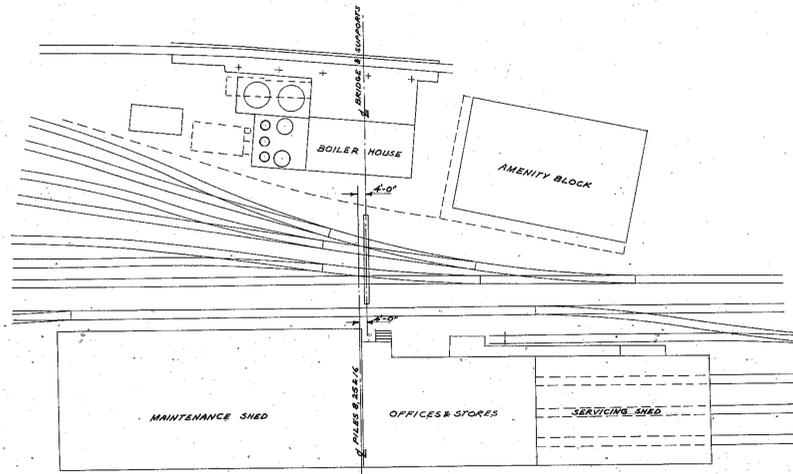
BRITISH RAILWAYS BOARD  
EASTERN REGION KING'S CROSS  
CHIEF CIVIL ENGINEER'S DEPT.

STEEL DRAINAGE TRAYS  
FOR FUELLING POINTS

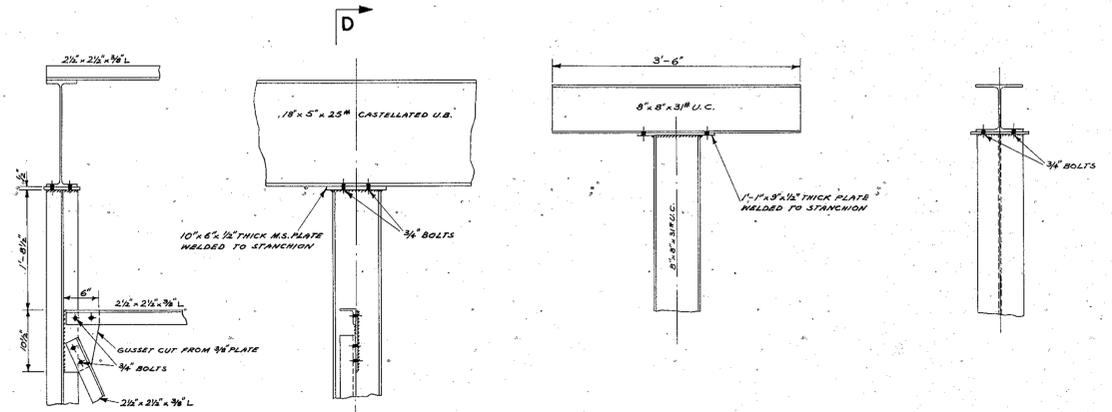
APPROVED  
J.D. WEST. *J.D.W.*  
CORRES. REF.  
NW 27568

DATE 13. 4. 65.  
PLAN No.  
65NW/85

C709

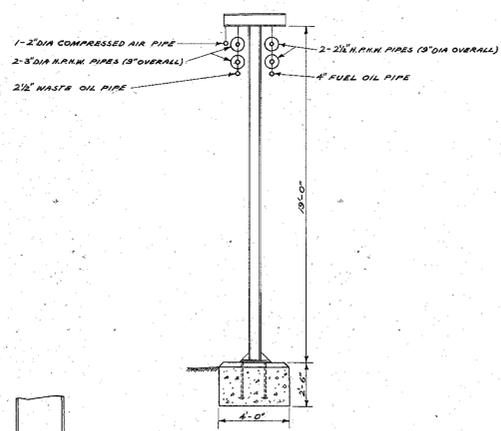


**SITE PLAN**  
1" TO 40 FT

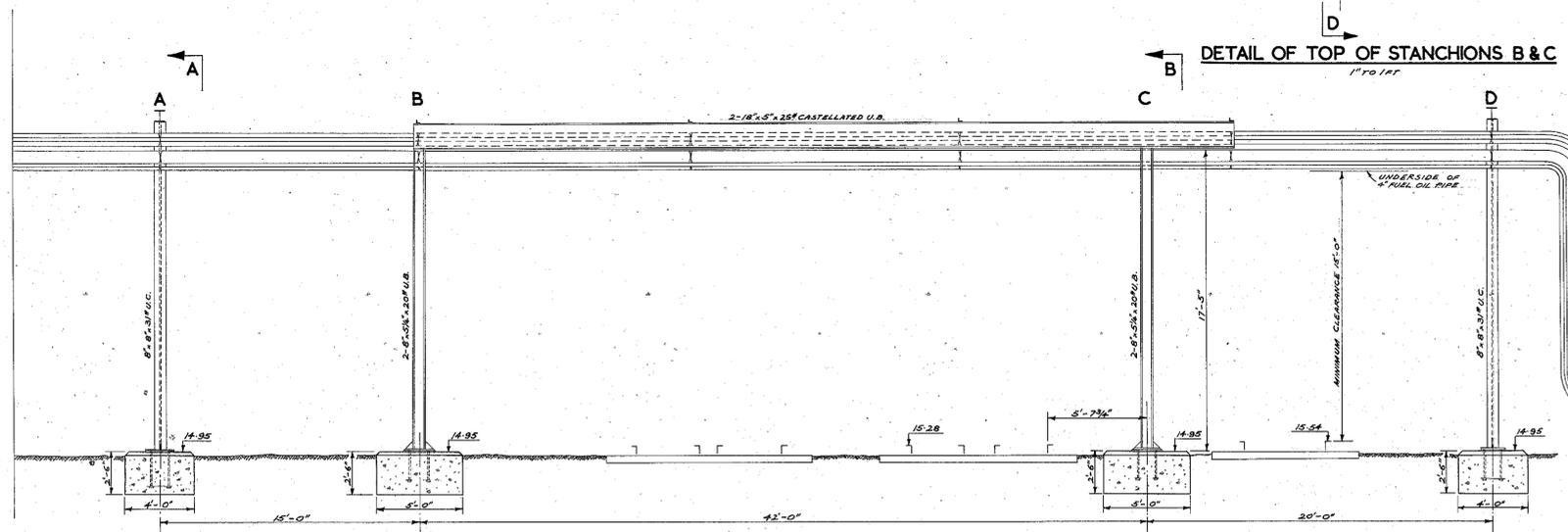


**DETAIL OF TOP OF STANCHIONS B & C**  
1" TO 1 FT

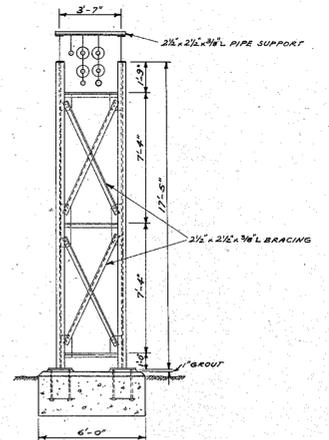
**DETAIL OF TOP OF STANCHIONS A & D**  
1" TO 1 FT



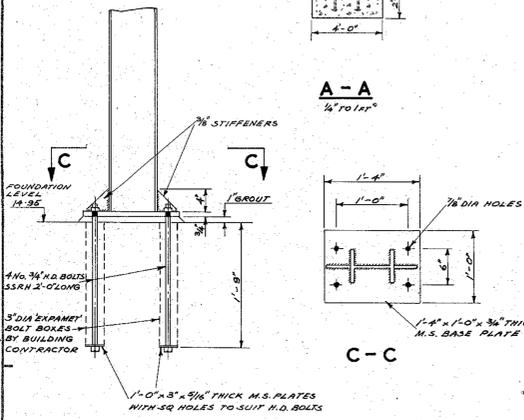
**A-A**  
1/4" TO 1 FT



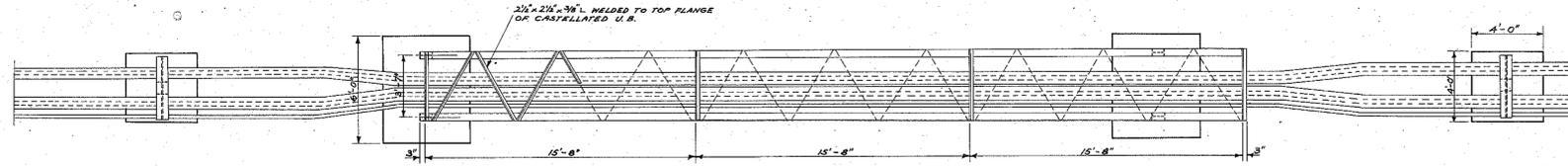
**ELEVATION**  
1/4" TO 1 FT



**B-B**  
1/4" TO 1 FT



**DETAIL OF STANCHION BASES & H.D. BOLTS**  
1" TO 1 FT

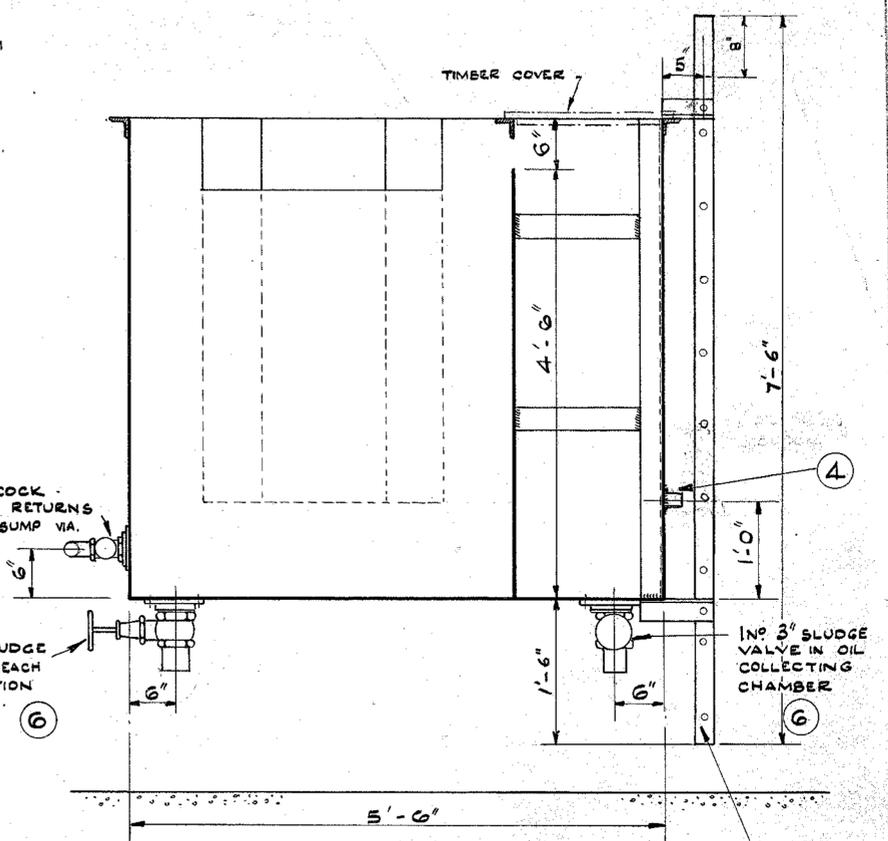
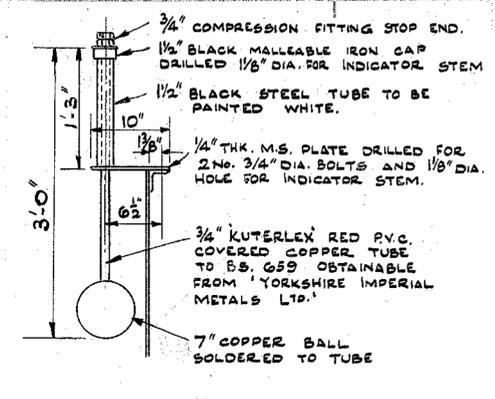
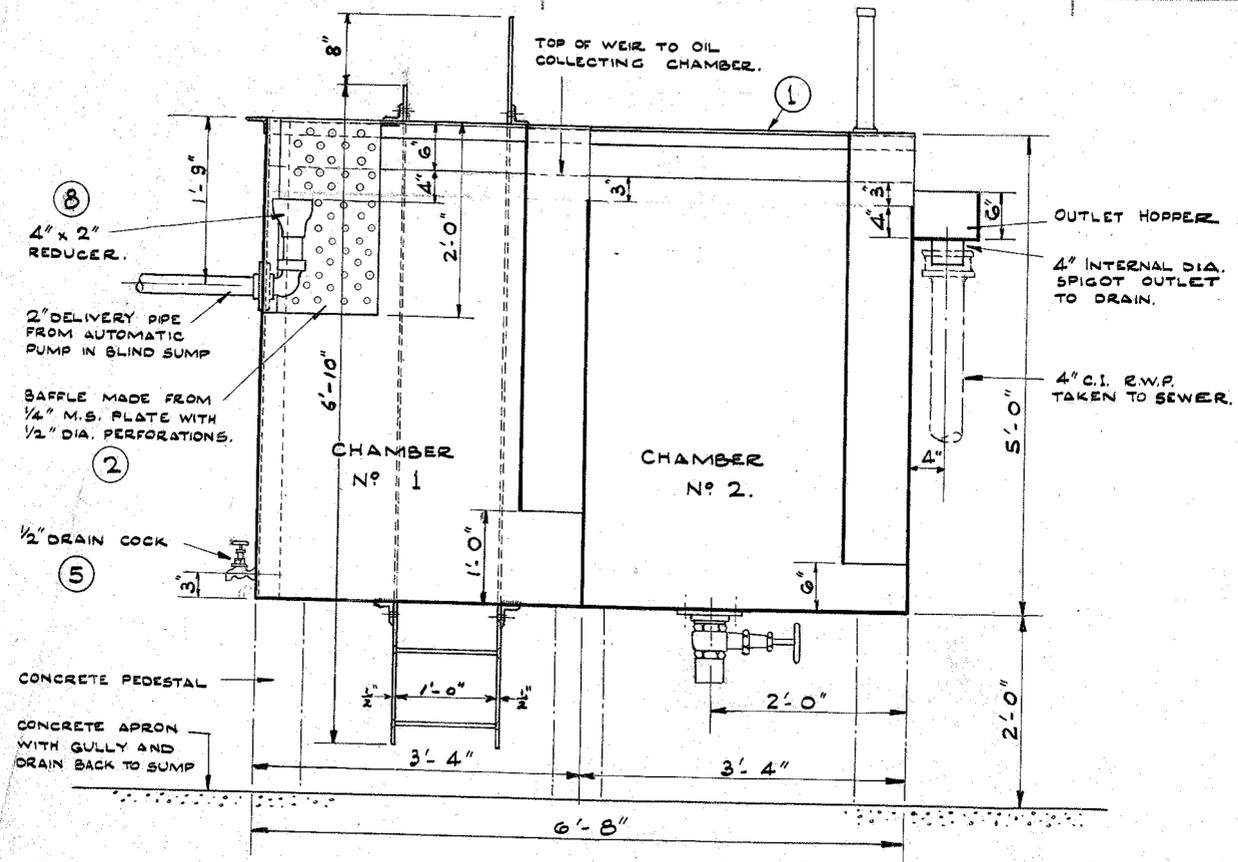


**PLAN**  
1/4" TO 1 FT

- NOTES**
1. ALL WELDS TO BE 1/4" FILLET WELDS.
  2. ALL HOLES TO BE 1/8" DIA FOR 3/4" DIA BOLTS UNLESS OTHERWISE STATED.
  3. ALL LEVELS REFER TO ORDNANCE DATUM (MENLVN)

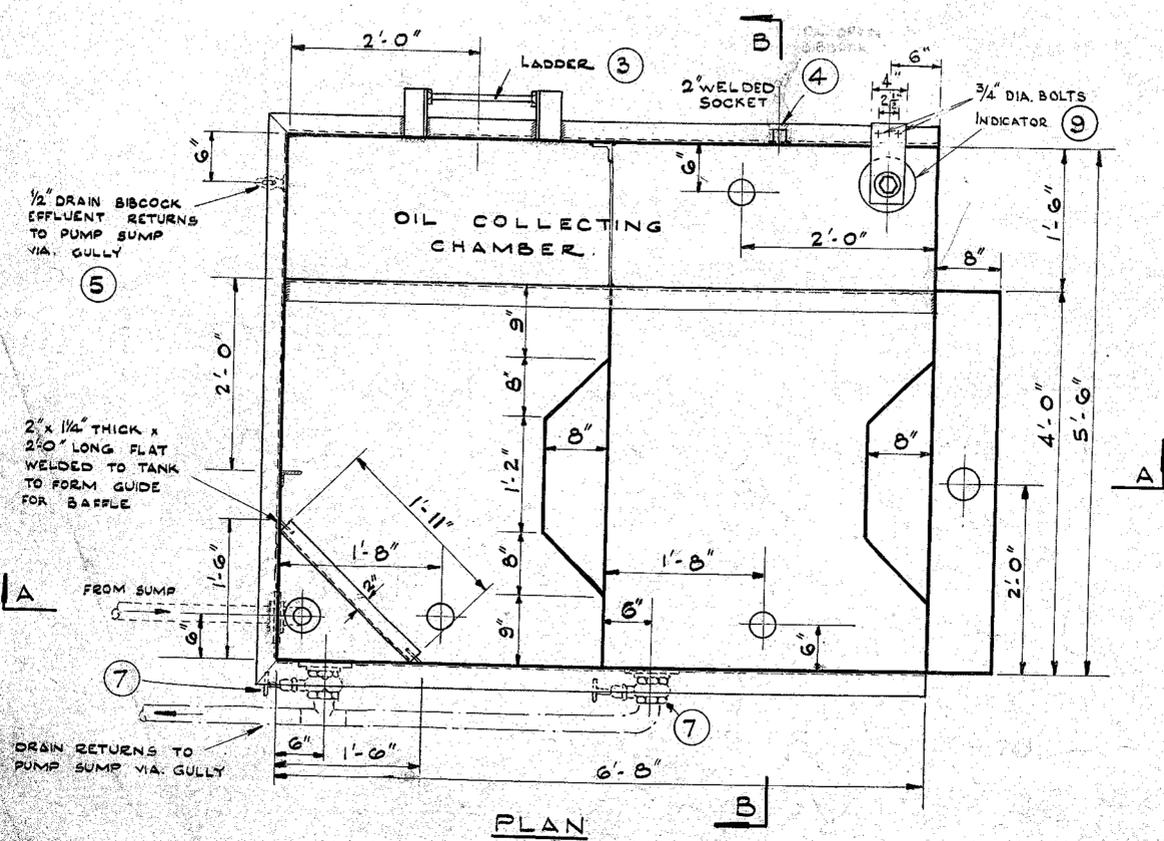
B. T. C. BRITISH RAILWAYS CIVIL ENGINEER'S DEPT.		EASTERN REGION KING'S CROSS STATION	
REVISED		IMMINGHAM DIESEL MAINTENANCE AND SERVICING DEPOT SERVICES BRIDGE	
D.E.	CORRES. C.E.	APPROVED	1/8. 3. 65
F. J. K.	Z. G.	J. D. WEST	1/8. 3. 65
J. M. A.			
SHEET	OF	CIVIL ENGINEER	No. 65NW/87

PH11 E765/3



SCHEDULE OF COMPONENTS.		
ITEM No.	DESCRIPTION	Nº OFF
1	TANK WITH BAFFLES, OUTSIDE HOPPER AND LADDER BRACKETS.	1
THE FOLLOWING ITEMS TO BE SUPPLIED, PREPARED FOR SITE FIXING AND COMPLETE WITH ALL NUTS, BOLTS, GASKETS ETC.		
2	PERFORATED BAFFLE	1
3	LADDER	1
4	2" WELDED SOCKET - OIL	1
5	BIBCOCK 1/2 INCH DIA - OIL	1
6	SLUDGE VALVE 3 IN. DIA. WITH FLANGED BOSS	3
7	DRAINCOCK 2 INCH DIA. WITH FLANGED BOSS	2
8	4" x 2" REDUCER, 2" ELBOW, 6" LENGTH G.S. TUBE AND 2 NO. 2" DIA. FLANGED BOSSES (SEE NOTE 5)	1
9	OIL COLLECTING CHAMBER INDICATOR COMPLETE	1

- NOTES
- 1/4" M.S. PLATE, 2 1/2" x 2 1/2" x 5/16" M.S. ANGLE AND CONTINUOUS WELDS TO BE USED THROUGHOUT.
  - WORK INDICATED BY LINES THUS TO BE SUPPLIED AND/OR CONSTRUCTED BY ERECTOR.
  - A TIMBER COVER, 1" NOMINAL THICKNESS, IN SECTIONS CONVENIENT FOR LIFTING - (APPROXIMATE SIZE 1'-2" x 1'-9") TO OIL COLLECTING CHAMBER TO BE PROVIDED. (THIS ITEM TO BE SUPPLIED BY ERECTOR.)
  - POSITIONS OF INLET PIPE, OIL DRAIN COCKS ETC. MAY BE VARIED TO SUIT SITE CONDITIONS.
  - DELIVERY FROM PUMP MAY BE REDUCED IF AREA TO BE DRAINED IS SMALL. C.M. & E.E. SHOULD BE CONSULTED.



BRITISH RAILWAYS BOARD EASTERN REGION  
 CHIEF CIVIL ENGINEER'S DEPT NEW WORKS SECTION

REVISED

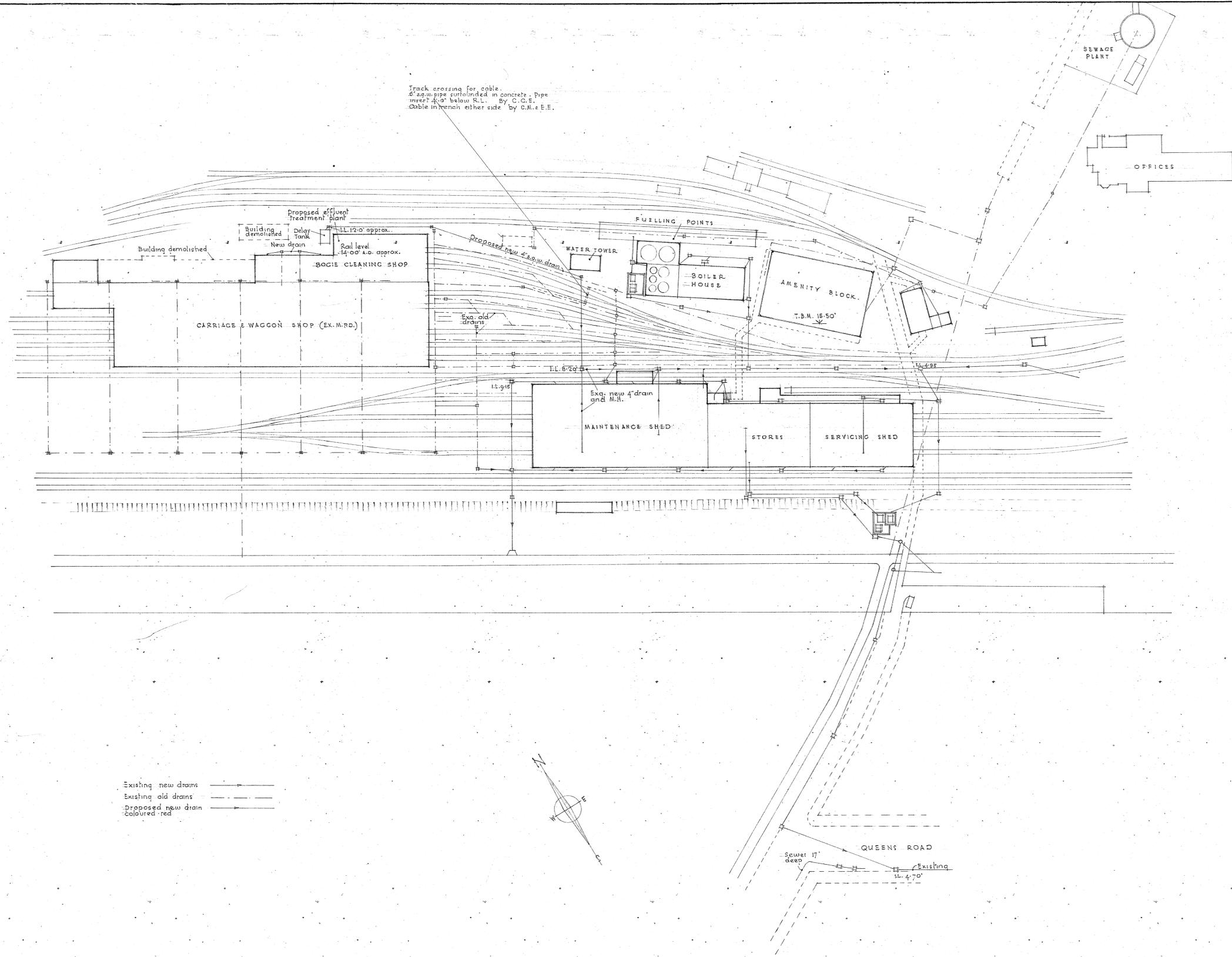
A - Oil Level Indicator deleted. 12-3-68.  
 B - Ladder dimensions added. 2-7-68.  
 C - Oil Level Indicator restored. 31-7-68.

**TYPICAL AUTOMATIC OIL INTERCEPTOR. (ELEVATED PATTERN.)**

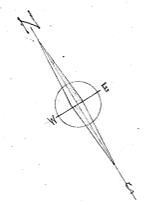
D.E. CORRESPONDENT APPROVED 7. 5. 65. SCALES - 1" TO 1 FT

W.H.H. M.M. D.E.'s No. C.C.E.'s No. 65-YNW-50

SHEET OF CHIEF CIVIL ENGINEER



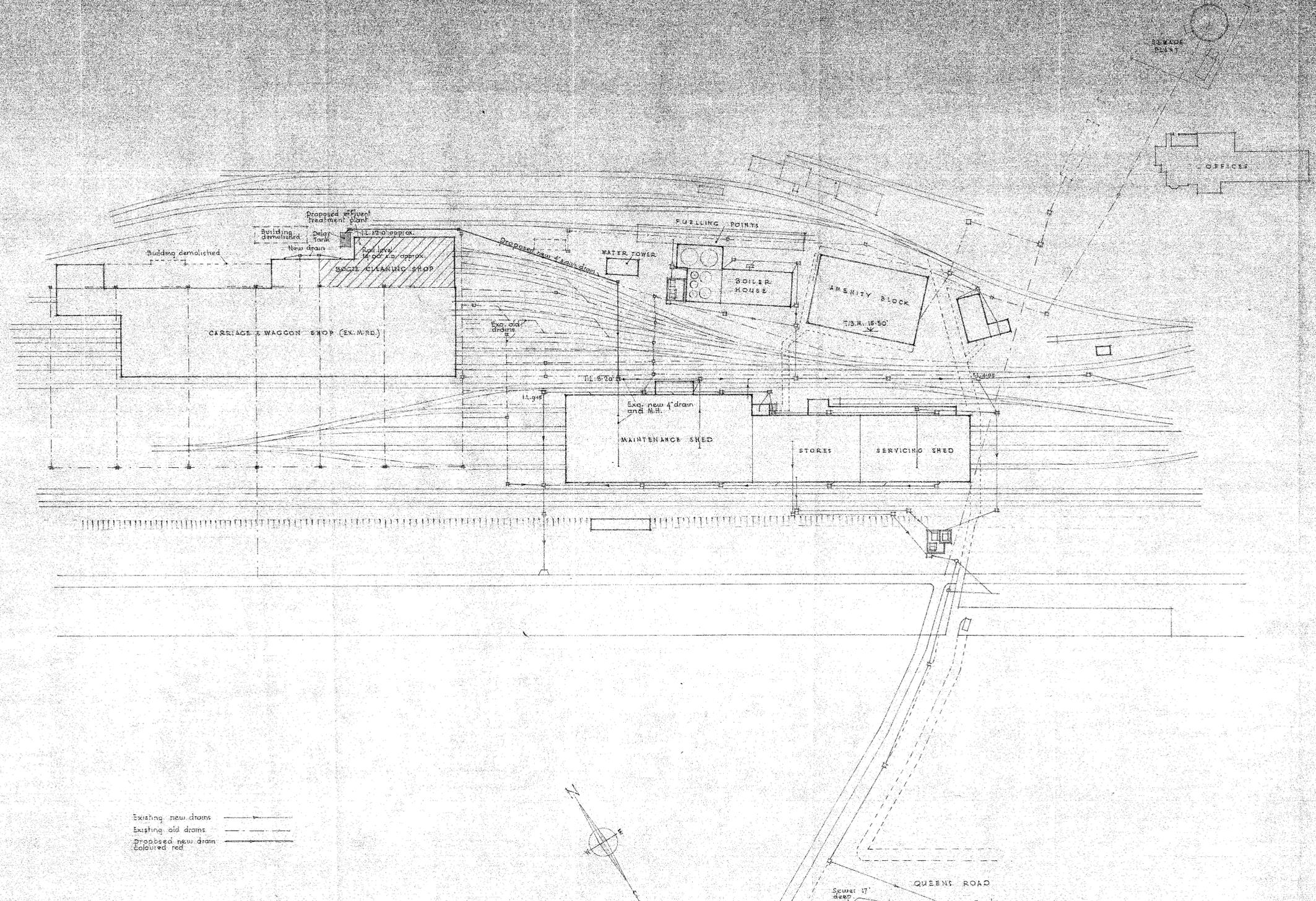
Existing new drains ———→  
 Existing old drains - - - - -→  
 Proposed new drain ———→  
 Coloured red



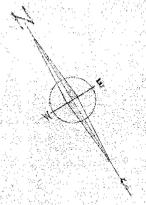
TRACED FROM DRAWING No 65/111/48

66ME-5

B.R.B. BRITISH RAILWAYS CHIEF CIVIL ENGINEER'S DEPT.		EASTERN REGION KING'S CROSS STATION	
REVISED		IMMINGHAM M.P.D. BOGIE CLEANING SHOP EXTENSION TO LIFTING SHOP DRAINAGE PLAN	
D.E.	CORRES.	C.C.E.	APPROVED
			JUNE 66
A.L.B.			12.1.67
R.J.L.O.			J.D. WEST ACE (W)
SHEET 01 OF 5		C.C.E.'S No. 66ME5	



Existing new drains ———  
 Existing old drains - - - -  
 Proposed new drain ———  
 Coloured red



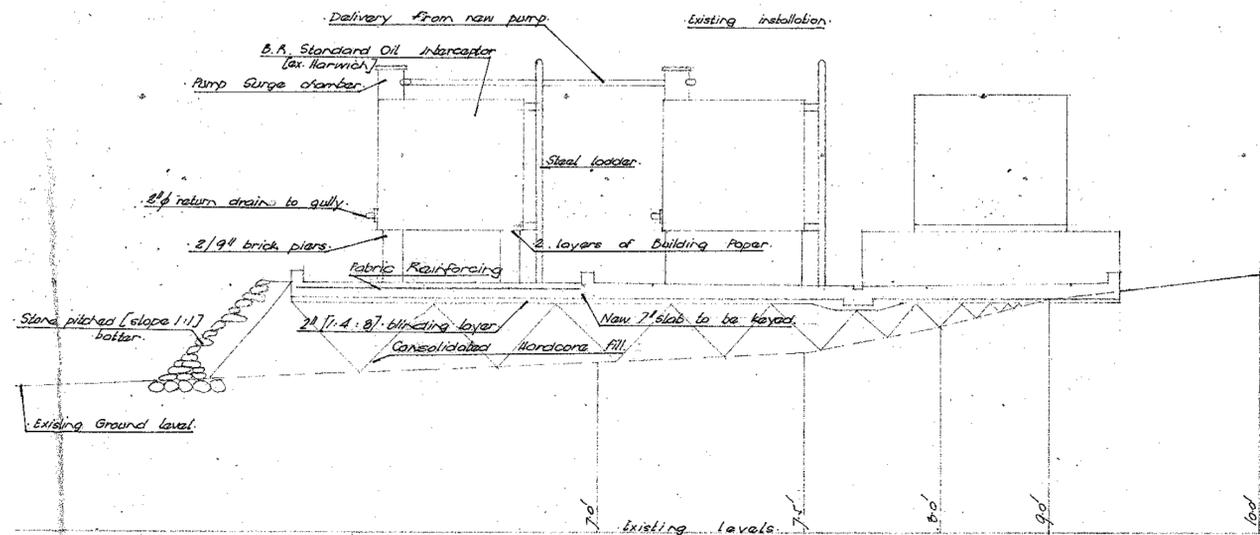
FOR & ON BEHALF OF  
 J. PATA & CO. LTD.  
 DIRECTOR

**OFFICE COPY**

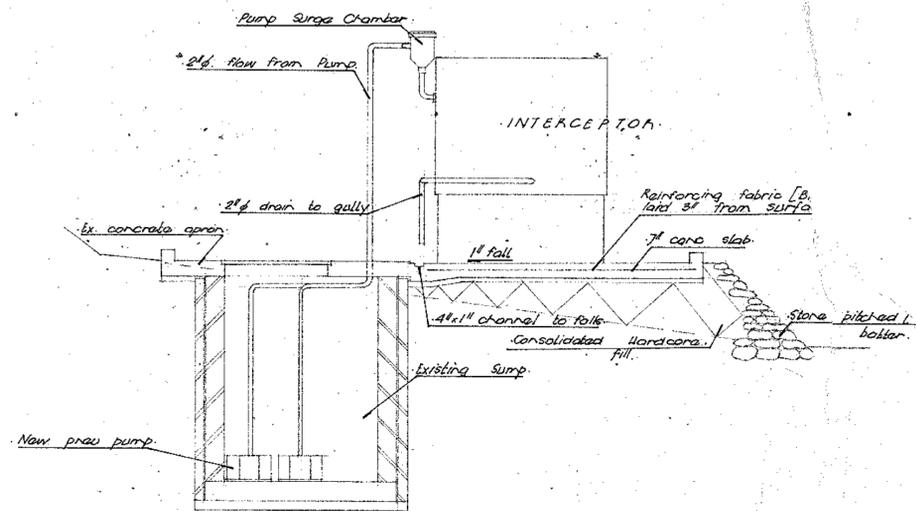
TRACED FROM DRAWING NO 65/AM/43  
 13 APR 1967

REVISED		APPROVED		JUNE 46		SCALES	
D.E. CORRES. C.C.H.		58624		1/4" = 1'		40' to 1 inch	
M.L.B.		R.J.D.G.		C.C.E. No.		50715	
SHEET OF 1 OF 3		CHIEF CIVIL ENGINEER		No.		50715	

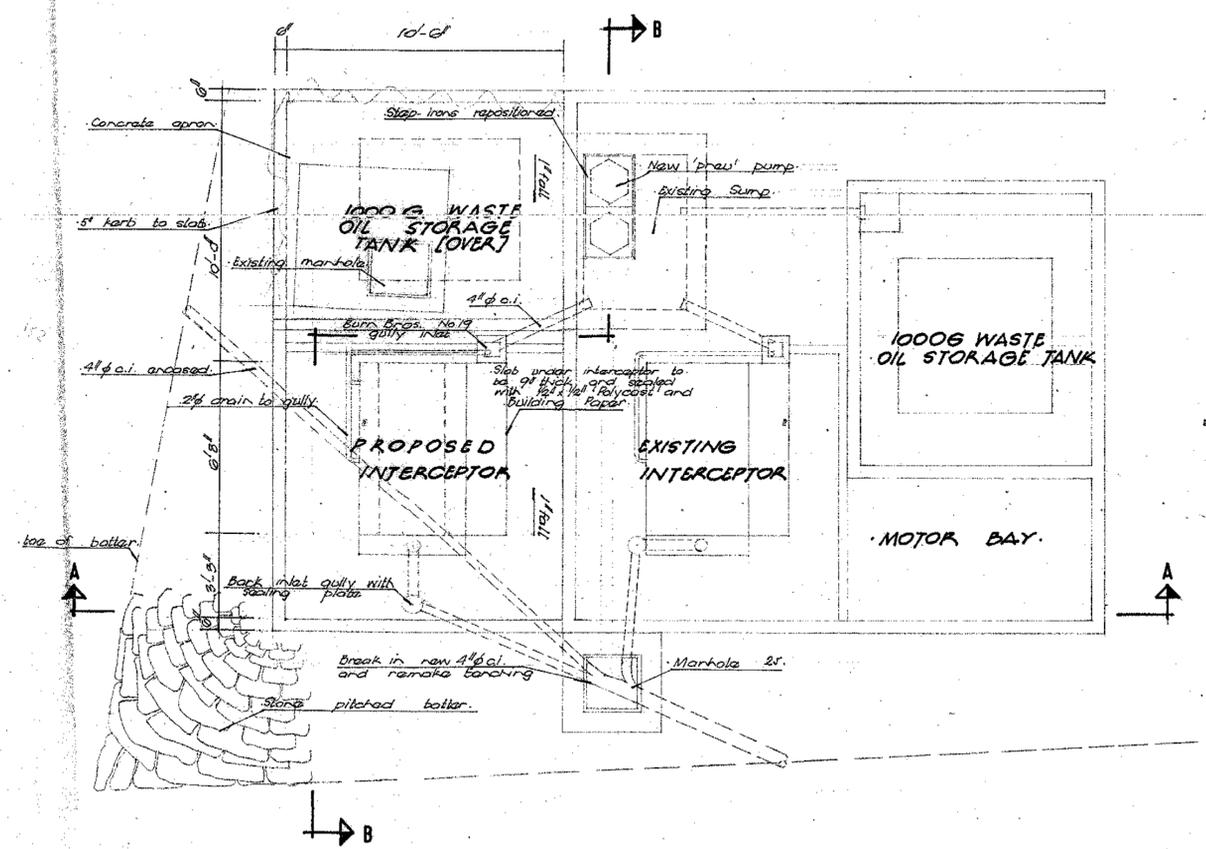
BIRMINGHAM M.P.D.  
 BOGIE CLEANING SHOP  
 EXTENSION TO LIFTING SHOP  
 DRAINAGE PLAN



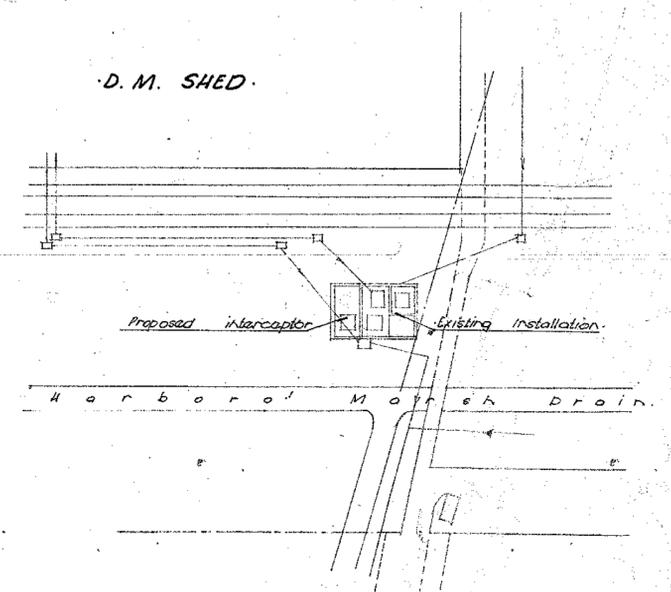
SECTION : A A  
[scale : 1/4 in = 1 ft.]



SECTION : B B  
[scale : 1/4 in = 1 ft.]



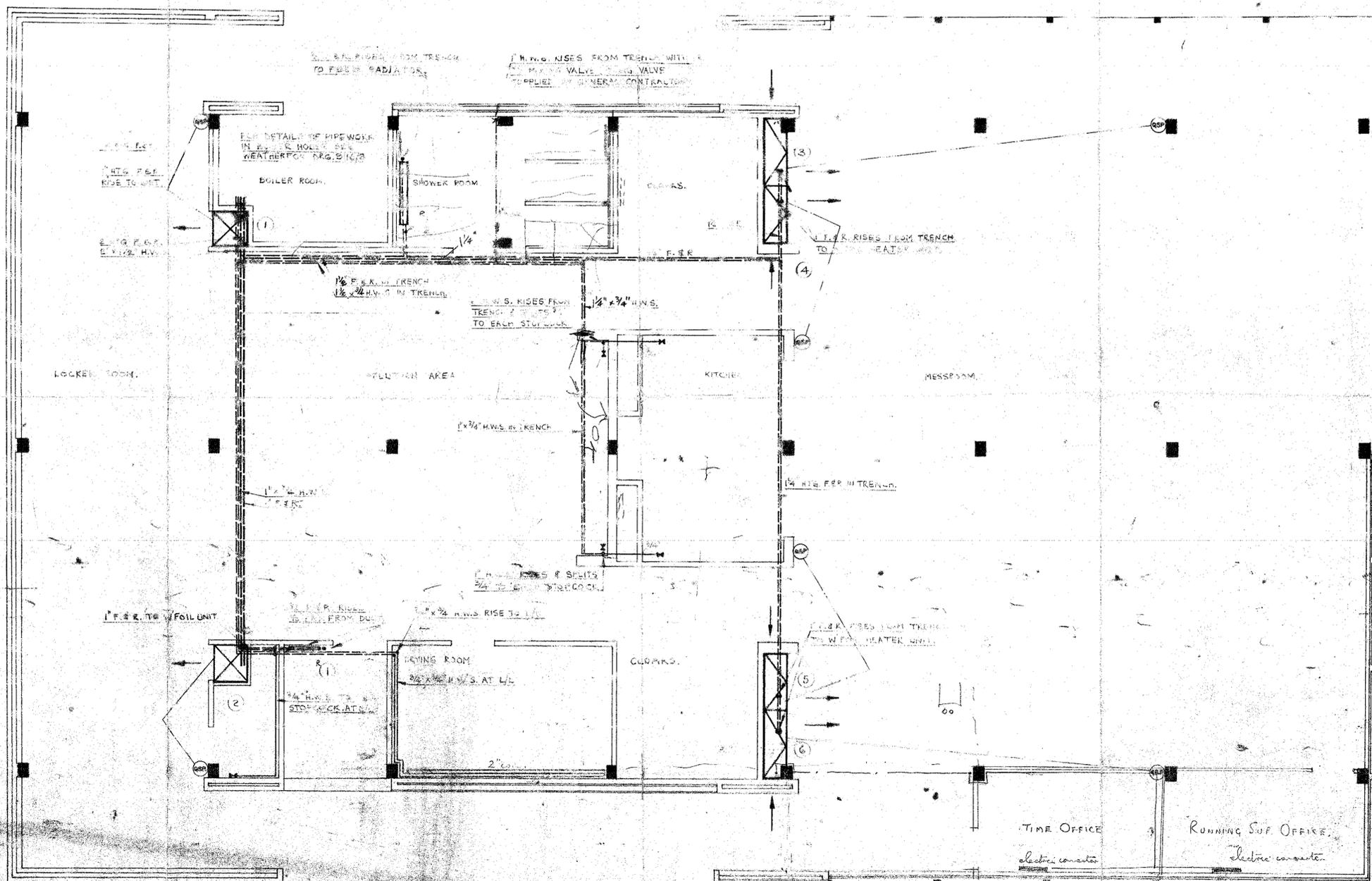
PLAN  
[scale : 1/4 in = 1 ft.]



SITE PLAN  
[scale : 40 ft. = 1 in.]

- NOTES:**
1. Apron concrete to be 1:2:4 [3v] mix.
  2. Apron concrete to be treated with 'Lithurix'.
  3. Joint and bed stone pitching with 1:6 cement.
  4. Bricks to be Engineering Class B [B.S. 1501:46]
  5. Horizontal Paving joints to be sealed.

BRITISH RAILWAYS BOARD CHIEF CIVIL ENGINEER'S DEPT.		EASTERN REGION KING'S CROSS STATION	
REVISED	IMMINGHAM D.M. SHED		
Proposed Interceptor augmenting existing main outfall and waste-oil storage arrangements			
D.E. CORRES.	C.C.E.	APPROVED 13.7.67	SCALES 1/4 in. = 1 ft., 40 ft. = 1 in.
B.S. Gambrell	J.D. WEST	J.A.C. E. J. VOAKS	C.C.E.'S No. 67 WS 98
SHEET OF	CHIEF CIVIL ENGINEER		



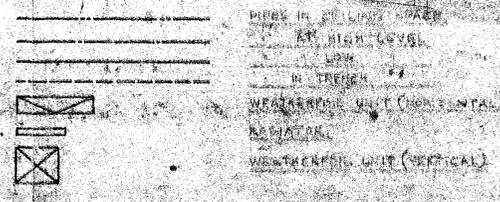
WEATHERFOIL UNIT SCHEDULE

NO.	BRNRY	FANS	FAN P.C.E.	COILS	CONNS.	DRG. NO.
1	UNA	2	27/5/33/27	66/25/23		20A/17/21
2			27/5/33/27	66/25/23		
3	V.B.S.	2	27/5/33/27	66/25/23		10/16
4						
5						
6						

RADIATOR SCHEDULE

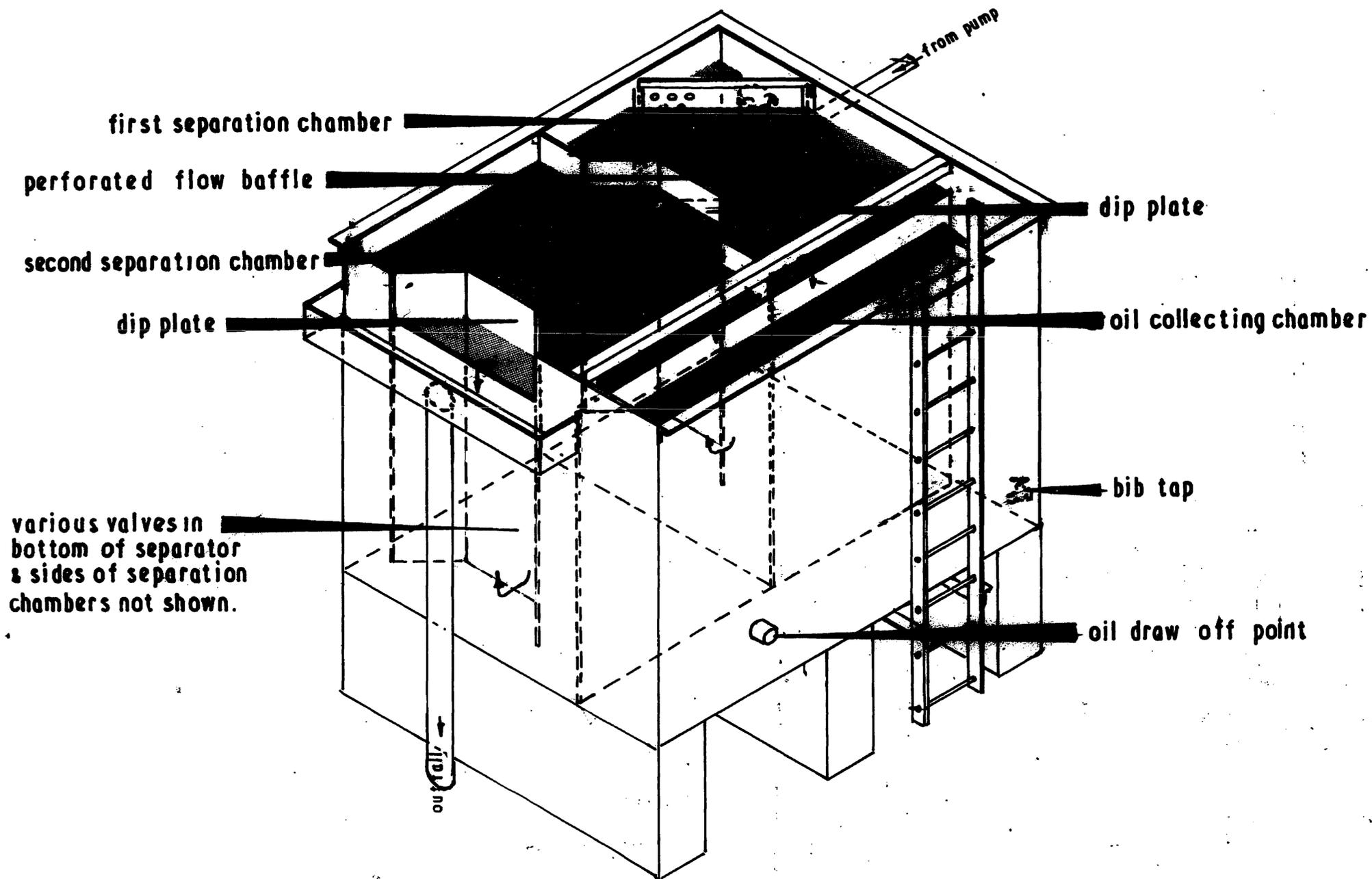
NO.	COL.	HEIGHT	SECTS.	CONNS.	NOTES

CODE



DRAWN	A. F. W.	S. K. MIDDLETOWN, MESSROOM
DATE	1/10/57	2 WASHING FACILITIES
SCALE	1/4" = 1'-0"	LEVEL OF HEATING & HOT WATER SERVICES AS V.
REF.	H. T. 4	DRG. NO. 91/27

WEATHERFOIL HEATING SYSTEMS LTD. 15 BERKELEY STR. LONDON. DRG. No 91/27



00362-1

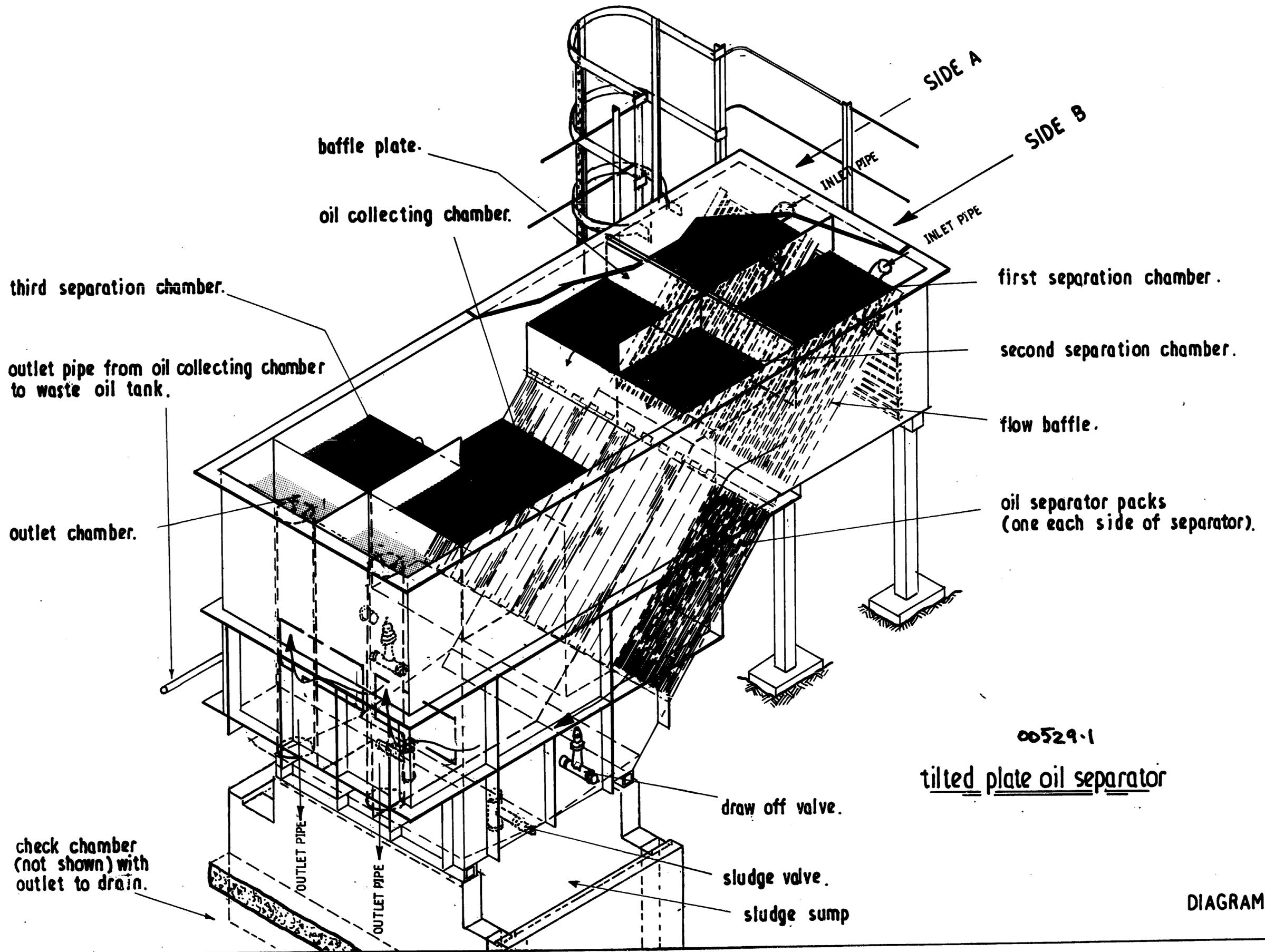
elevated automatic oil interceptor  
see section 4

*Intingham  
 Depot*

DIAGRAM 'C'



**CAN 2**



third separation chamber.

outlet pipe from oil collecting chamber to waste oil tank.

outlet chamber.

check chamber (not shown) with outlet to drain.

baffle plate.  
oil collecting chamber.

SIDE A  
SIDE B

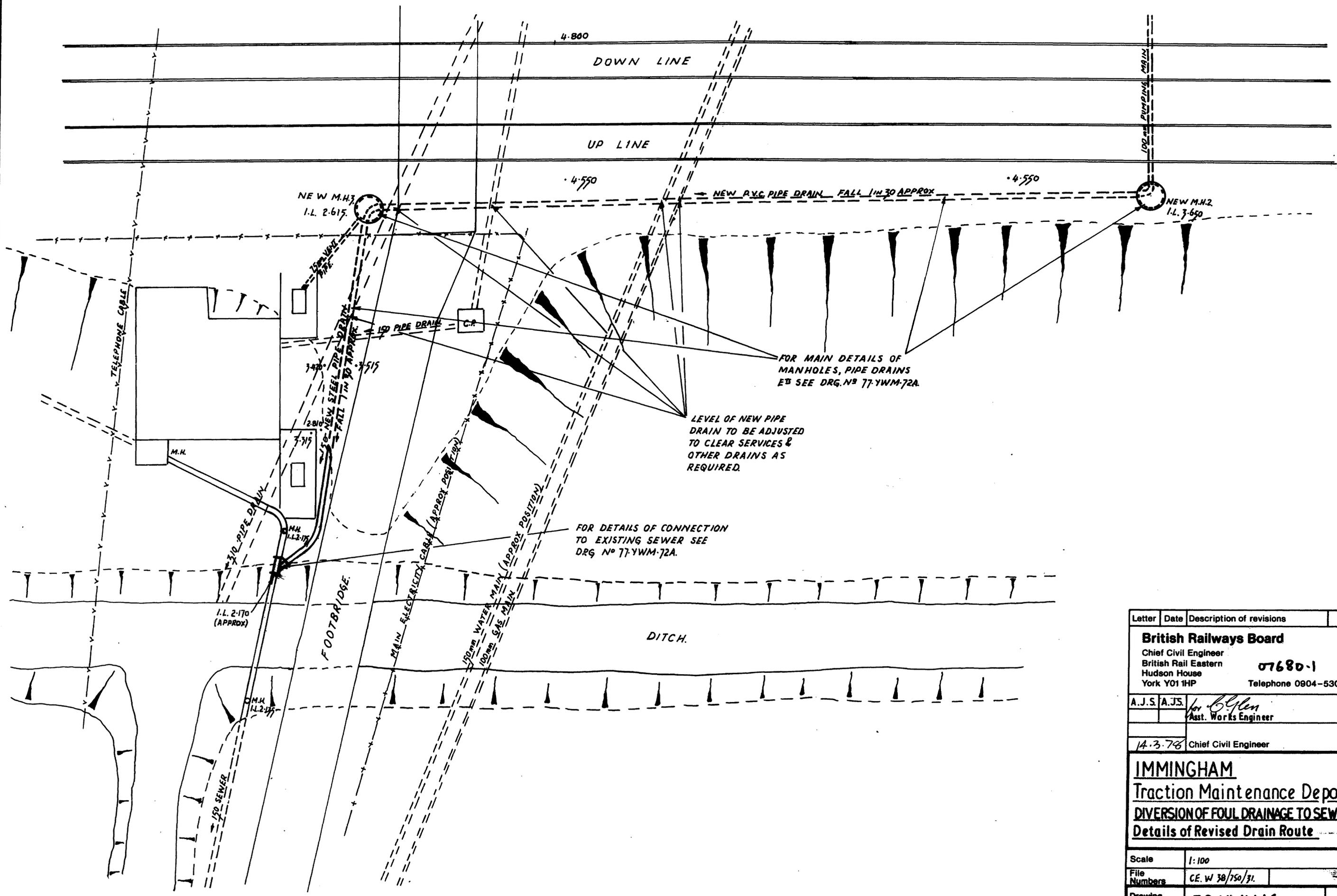
INLET PIPE  
INLET PIPE

first separation chamber.  
second separation chamber.  
flow baffle.  
oil separator packs (one each side of separator).

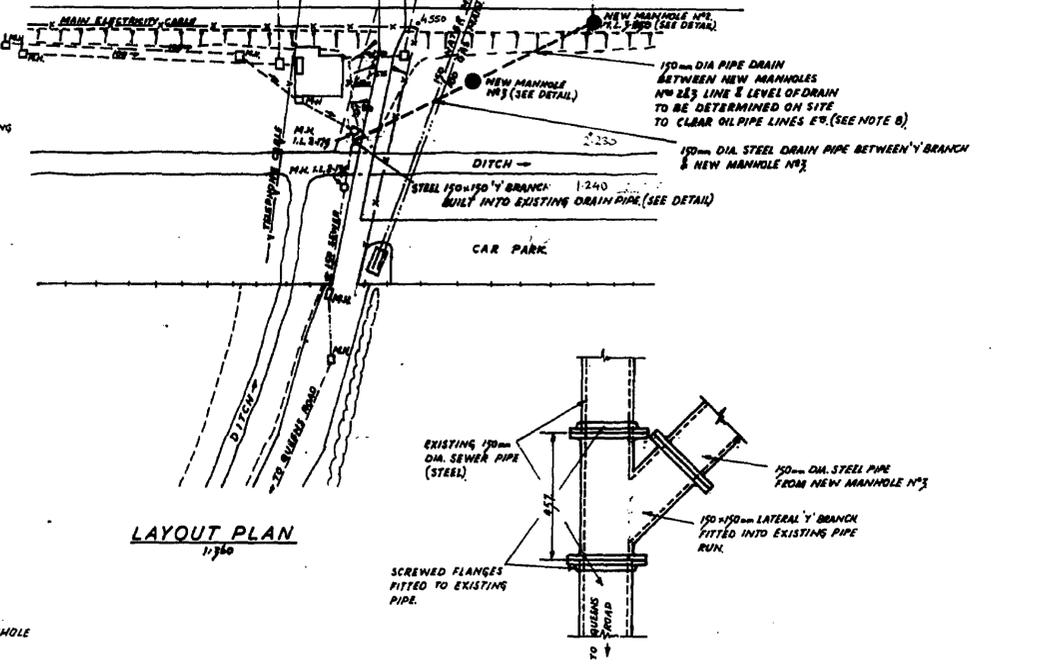
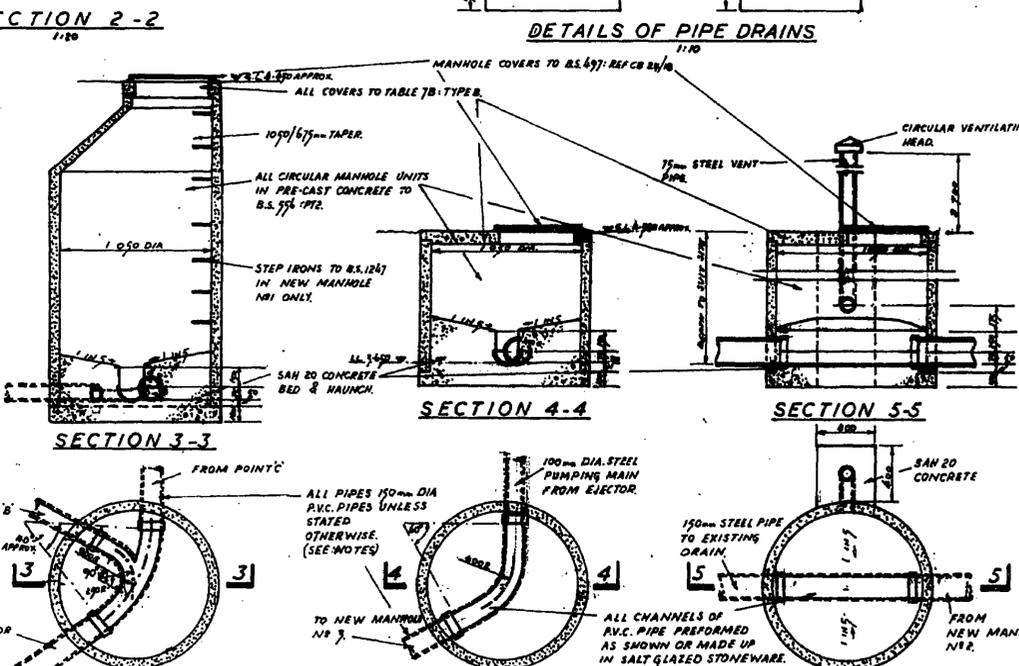
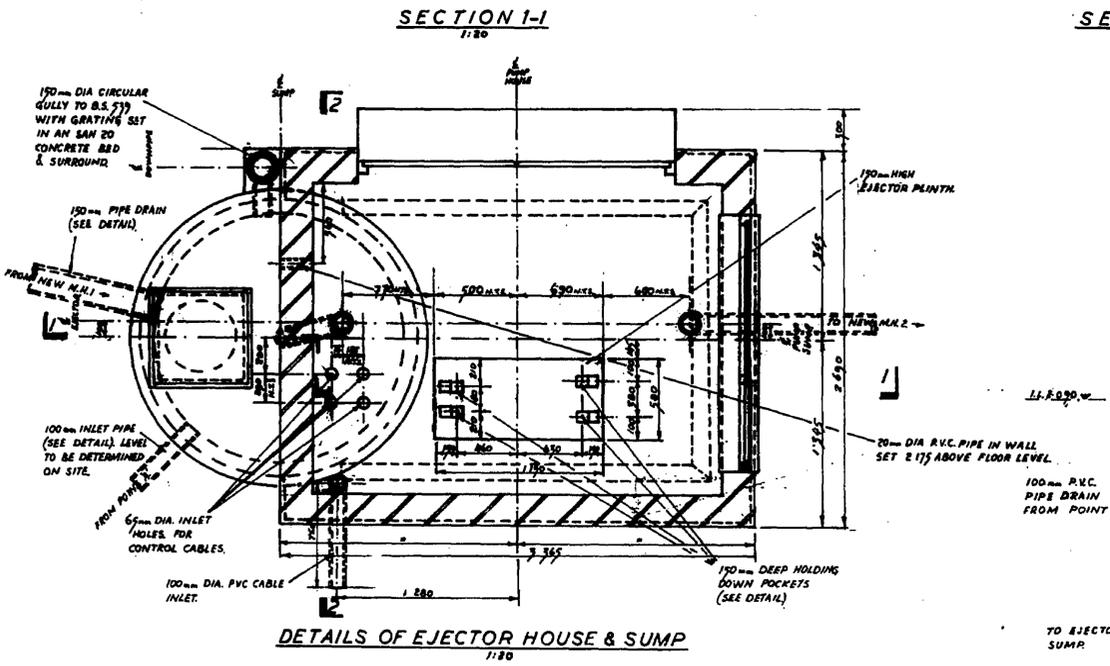
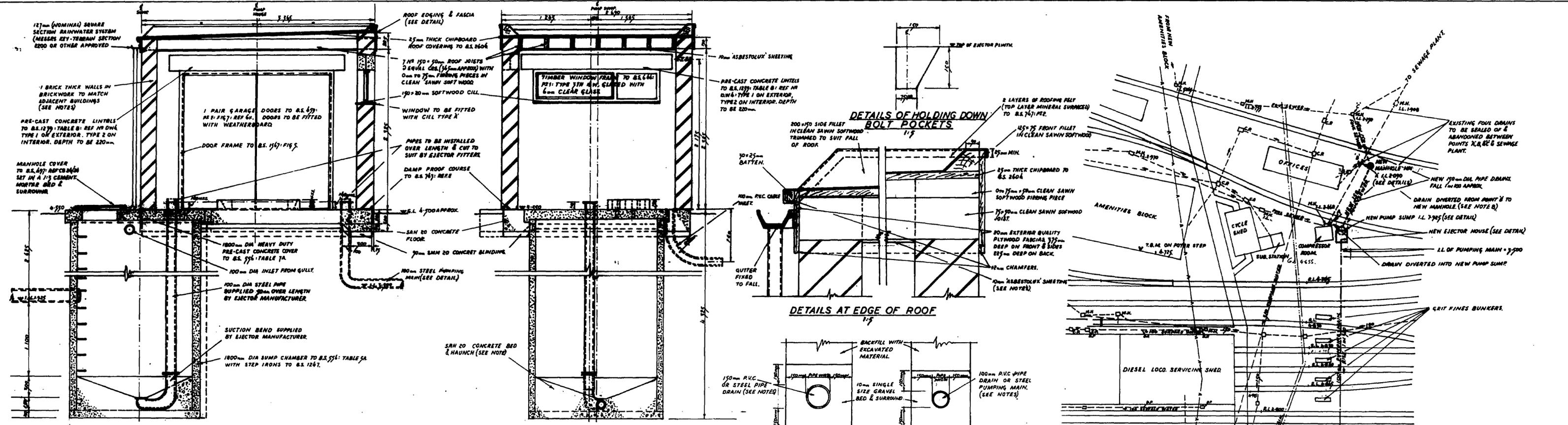
draw off valve.  
sludge valve.  
sludge sump

00529-1  
tilted plate oil separator

DIAGRAM 'A'



Letter	Date	Description of revisions	By
<b>British Railways Board</b>			
		Chief Civil Engineer British Rail Eastern Hudson House York YO1 1HP	07680-1 Telephone 0904-53022
A.J.S.	A.J.S.	for <i>B. Glen</i> Asst. Works Engineer	
	14.3.78	Chief Civil Engineer	
<b>IMMINGHAM</b> Traction Maintenance Depot <b>DIVERSION OF FOUL DRAINAGE TO SEWER</b> Details of Revised Drain Route			
Scale	1:100		
File Numbers	CE. W 38/750/31.		
Drawing Number	78-YWM-16		



**NOTES.**

- ALL CONCRETE TO CONFORM TO THE STANDARD SPECIFICATION SECTION 7; TABLE 7/1; CONCRETE MIXES FOR MAJOR WORKS; CODE REF SAN 20 SAN 20 EV 2000.
- BRICKWORK TO BE CARRIED OUT IN 1:3 CEMENT MORTAR; 4 COURSES TO 300mm INTERNAL & EXTERNAL FACES FINISHED WITH A NEAT WEATHERSTRUCK JOINT.
- ALL TIMBER NOT PRIMED BEFORE DELIVERY TO BE TREATED WITH CLEAR 'CUPRINOX' BEFORE FIXING INTO THE PERMANENT WORK.
- FLOOR & PLINTH IN PUMP HOUSE TO BE STEEL FLOAT FINISHED.
- BUILDING TO BE PAINTED IN ACCORDANCE WITH THE STANDARD PAINTING SPECIFICATIONS & COLOUR REQUIREMENTS.
- ALL JOINTS IN PRE-CAST CONCRETE MUST BE SEALED WITH A 10mm (APPROX) 1:3 CEMENT MORTAR GROUT.
- ALL STEEL PIPES FOR PUMPING MAIN OR TO CONFORM TO B.S. 1594 CLASS B. ALL JOINTS MAY BE SLIP ON TYPE COUPLERS, FIXED FLANGES, OR SCREWED & COUPLED UNLESS SHOWN OTHERWISE ON THIS DRAWING. PIPES TO WITHSTAND A 4.5 BAR TEST PRESSURE.
- P.V.C. DRAIN PIPES TO CONFORM TO B.S. 1594 CLASS B. ALL JOINTS TO BE MADE WITH A RING SEAL PATTERN CONNECTOR OF APPROVED TYPE.
- JOINTS IN ASBESTOLUX PIPES COVERED WITH A 25mm THICK BATTEN & EDGES AT WALL WITH A 25mm FILLET.

**DETAILS OF PUMP PLINTH.**  
PIPE ENDS IN PUMP HOUSE, IF APPLICABLE, TO BE EJECTOR MANUFACTURER'S REQUIREMENTS.

**British Railways Board**  
Chief Civil Engineer  
British Rail Eastern  
Hudson House  
York YO1 1EP  
Telephone 0804-53022

**A.S.S. A.S.S.**  
F.V. Assistant Works Engineer  
15/1/72 Chief Civil Engineer

**LIMMINGHAM**  
Traction Maintenance Depot  
DIVERSION OF FOUL DRAINAGE TO SEWER

Scale: 1/2" = 1'-0"  
File Number: CR. 16. 28/10/71  
Drawing Number: 77-YWM-72