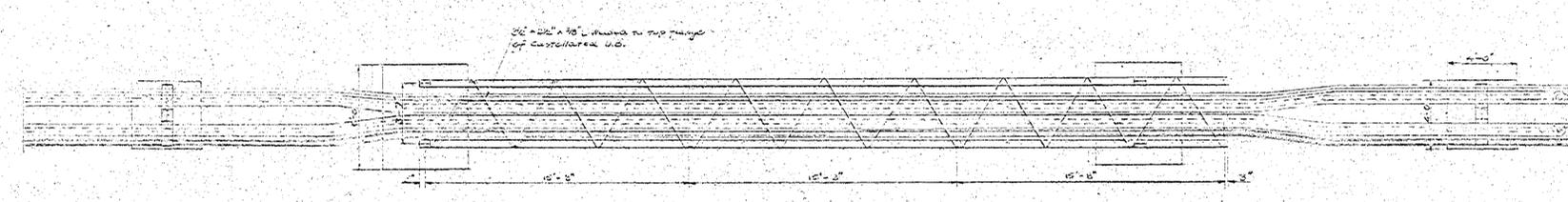
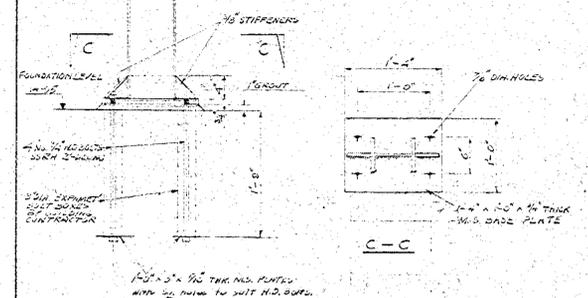
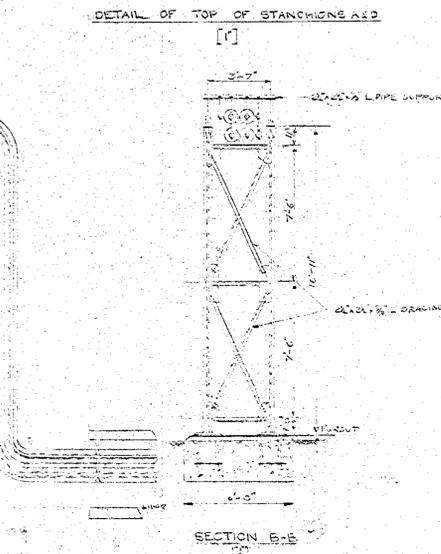
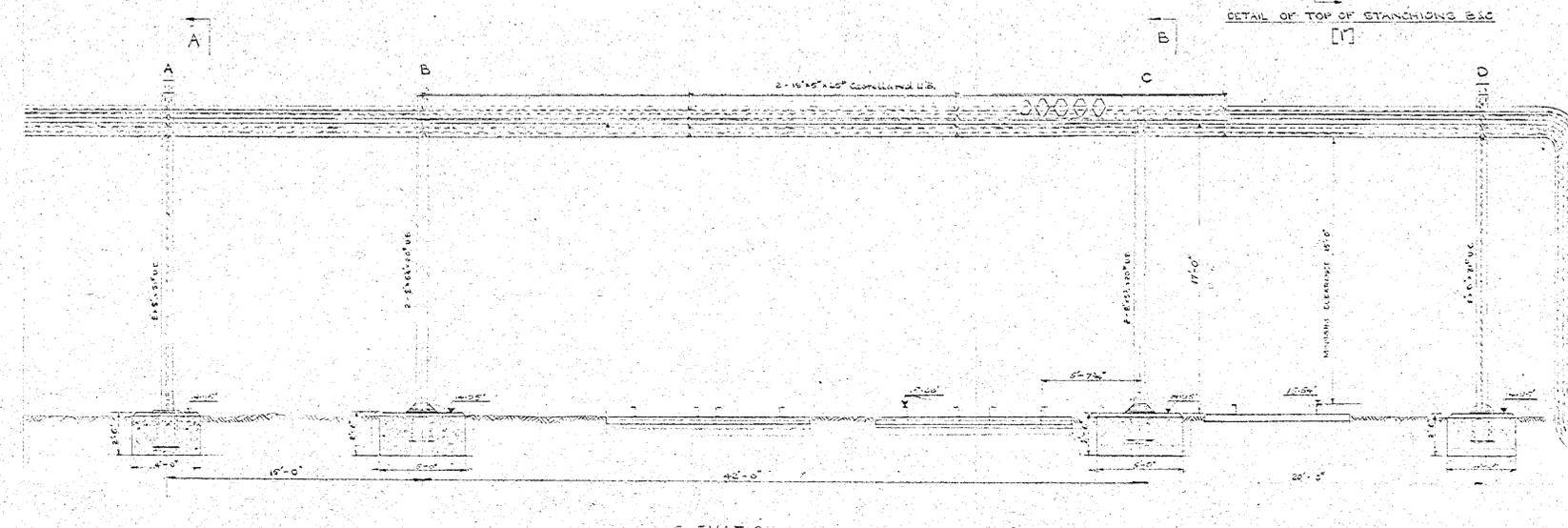
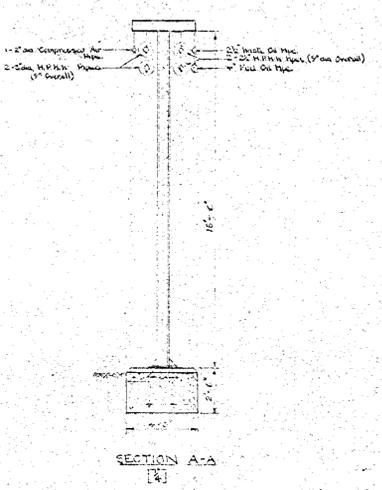
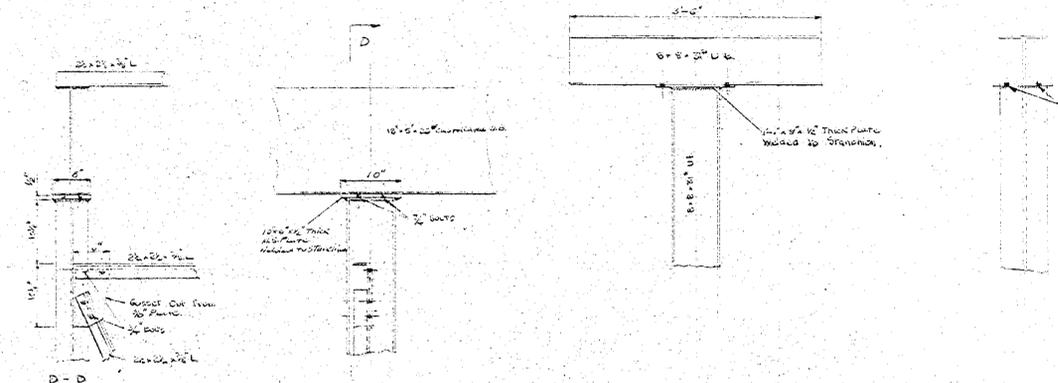
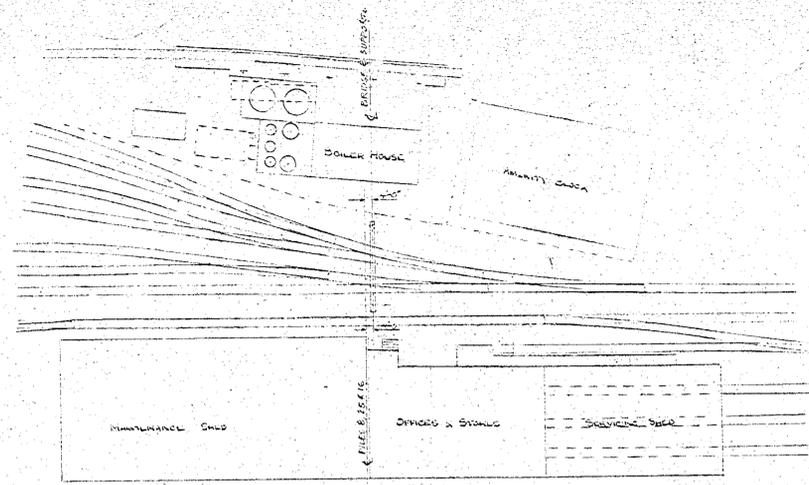


## Appendix D – Utilities Report (2/6)



NOTES:  
1. All welds to be 1/2" fillet welds.  
2. All nuts to be 1/2" dia for the dia bolts unless otherwise stated.  
3. All bolts refer to Ordnance Instructions (Newings).

|   |                      |   |                         |
|---|----------------------|---|-------------------------|
| B.R.B. BRITISH RAILWAYS<br>CHIEF CIVIL ENGINEER'S DEPT. |                      | EASTERN REGION<br>KING'S CROSS STATION                                |                         |
| REVISED   |                      | IMMINGHAM<br>DIESEL MAINTENANCE & SERVICING DEPOT<br>SERVICES BRIDGE. |                         |
| D.E. CORRES. C.C.E.                                     | APPROVED             | 18. 8. 65   | SCALE 1/4" & 1" = 1 FT. |
| T.J.K.  | N.J.N.               | J.C. WEST   |                         |
| J.W.F.  |                      |   |                         |
| SHEET OF  | CHIEF CIVIL ENGINEER | No. 65 NW 27  |                         |



(FOR DETAILS SEE PLAN No.60LC3/62)

### SCHEDULE OF COMPONENTS

CONTRACT DRAWING No. J49

| 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> |    |
|   | No.       | 'X' | No.            | 'X'            | No.            | 'X'            | No.            | 'X'            | L = | L =                 | L = | 1/2" DIA. x 1" LONG<br>PARKER-KALON<br>TYPE Z SCREWS |         |                |                |    |
| IMMINGHAM<br>DIESEL<br>MAINTENANCE<br>AND<br>SERVICING<br>DEPOT |           |     |                |                |                |                |                |                |     |                     |     |  |         |                |                |    |
| LUBRICATING OIL<br>OFF-LOADING<br>POINT                         | 3         | -   | -              | -              | -              | -              | -              | -              | 2   | -                   | -   | -  | -       | -              | -              | 20 |
| TOTAL   | 3         | -   | -              | -              | -              | -              | -              | -              | 2   | -                   | -   | -  | -       | -              | -              | 20 |



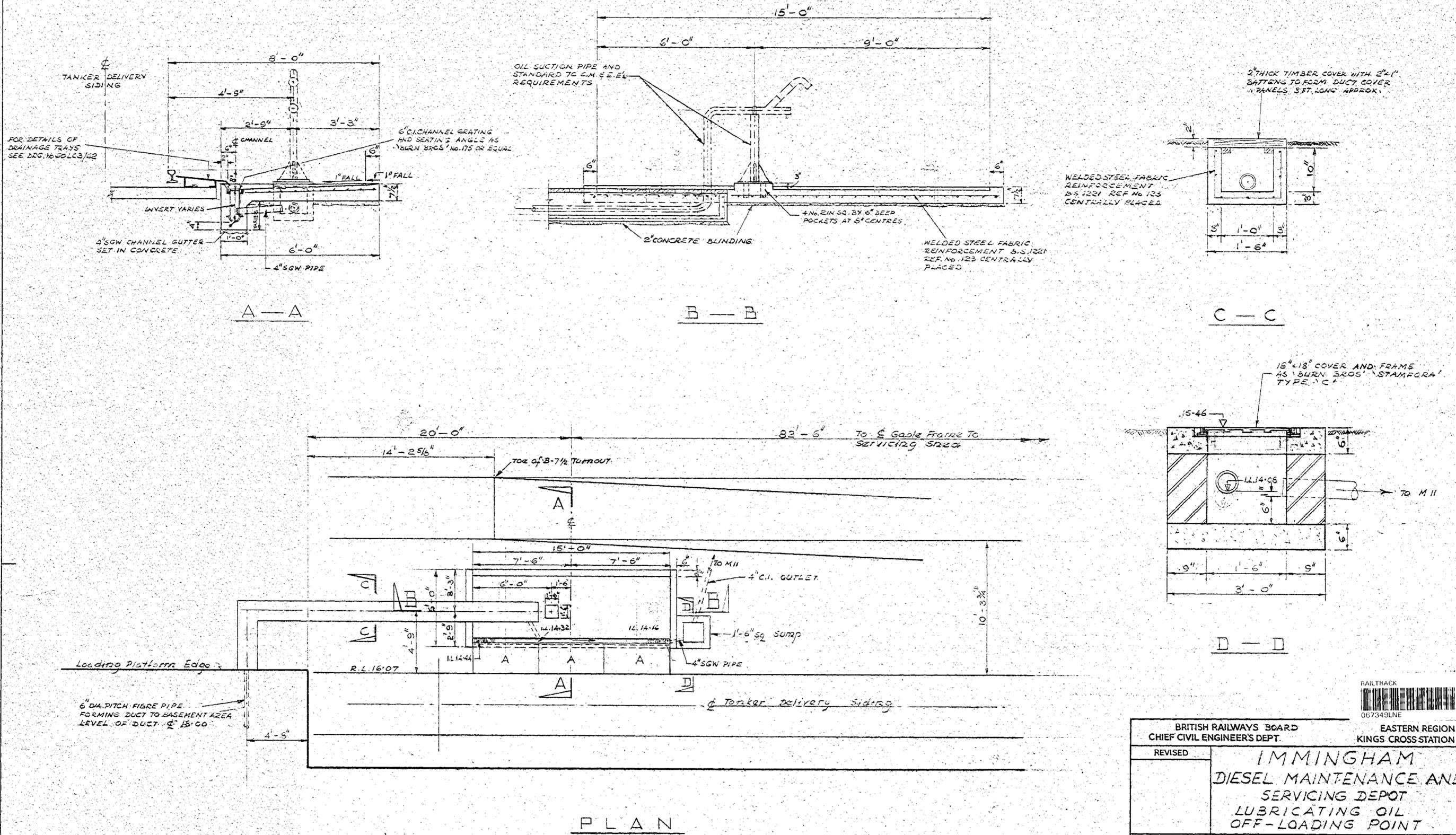
BRITISH RAILWAYS BOARD  
EASTERN REGION KING'S CROSS  
CHIEF CIVIL ENGINEER'S DEPT.

### STEEL DRAINAGE TRAYS FOR FUELLING POINTS

APPROVED  
J.D. WEST *J.D.W.* A.C.E. (MOD)  
CORRES. REF.  
NW 27568

DATE 8.10.65  
PLAN No.  
65NW/309

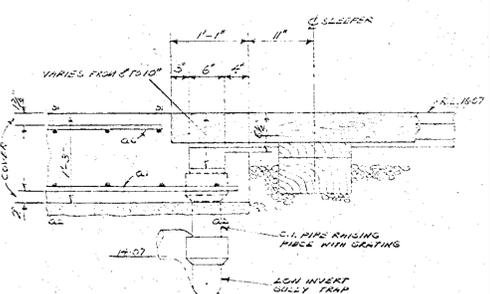
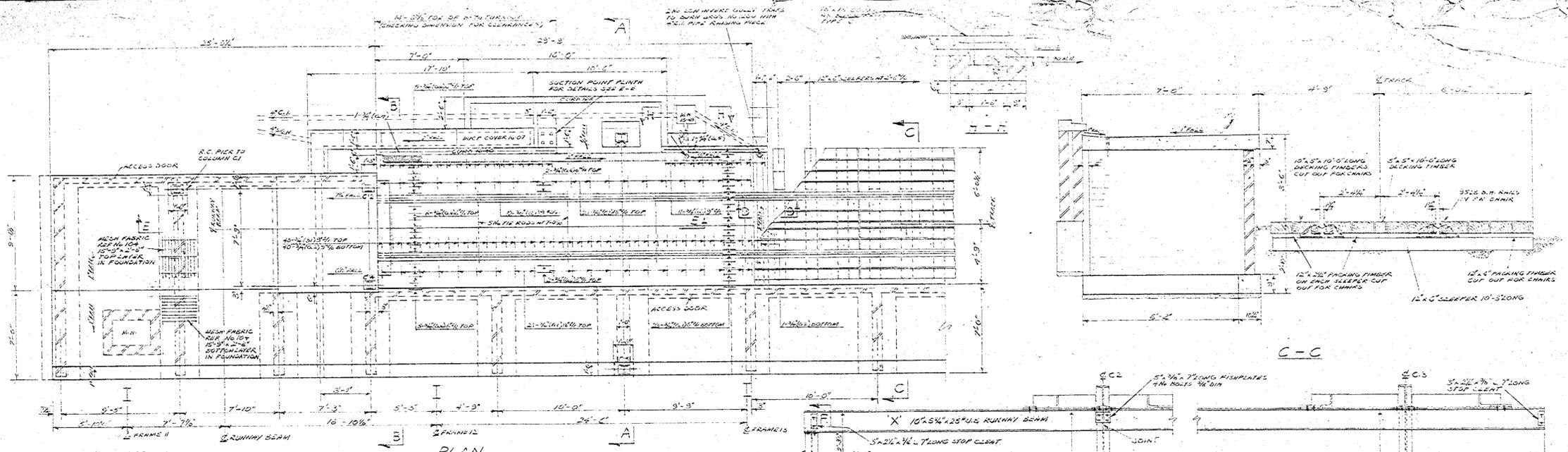
65.DR.140/47



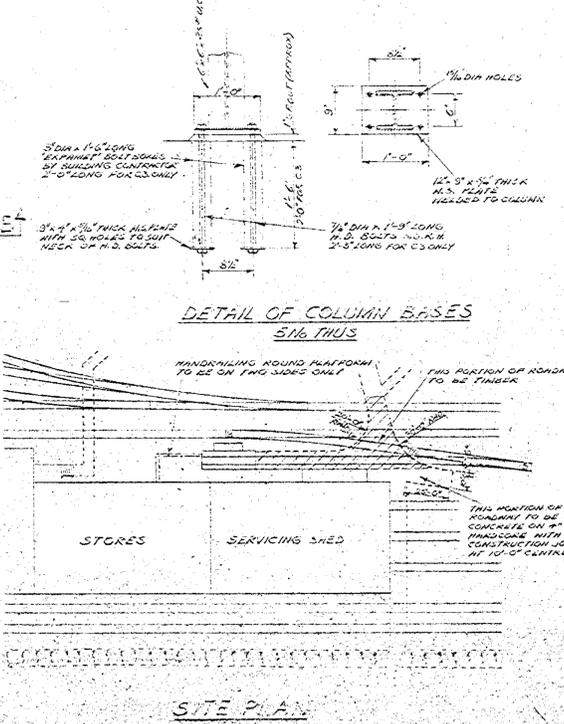
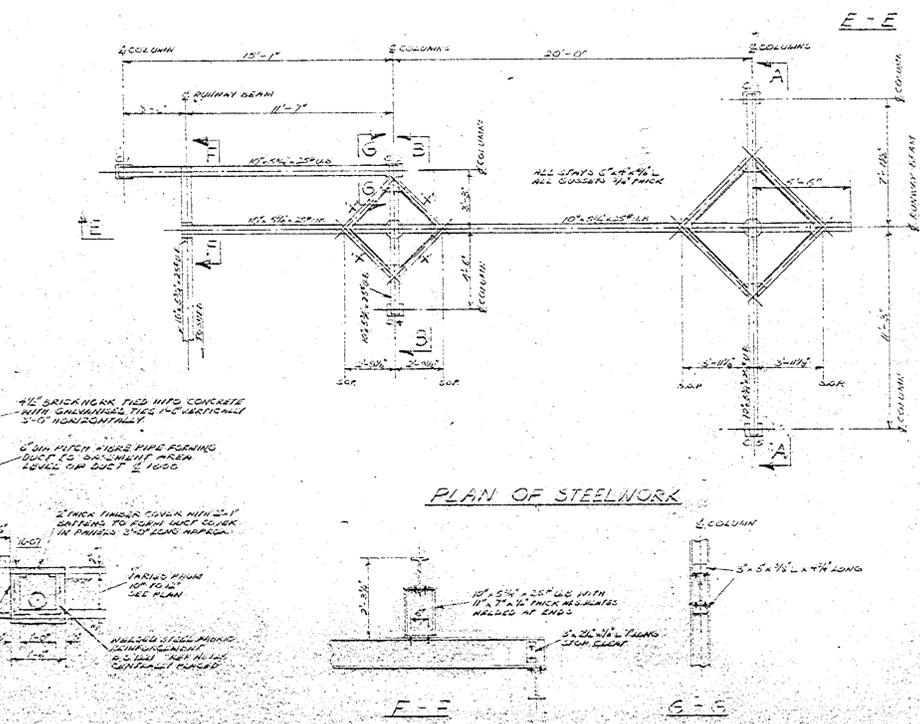
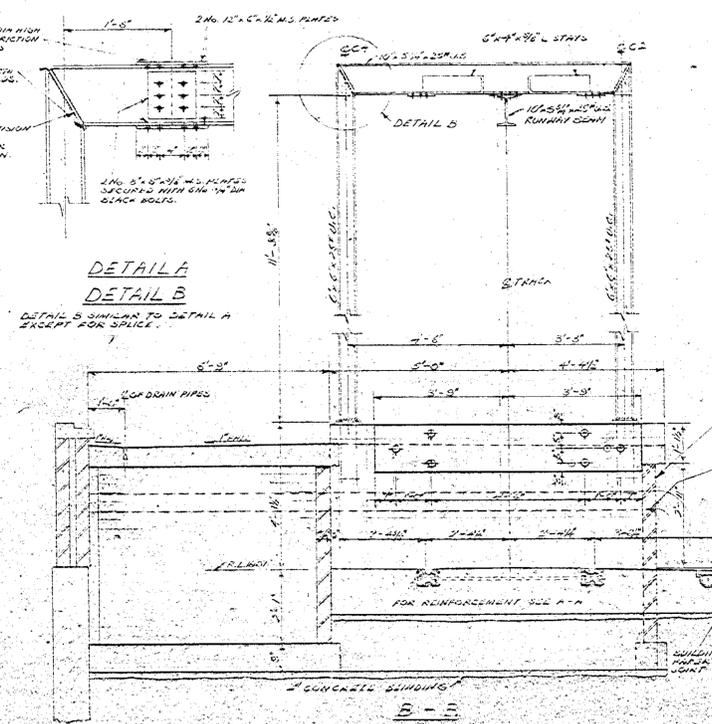
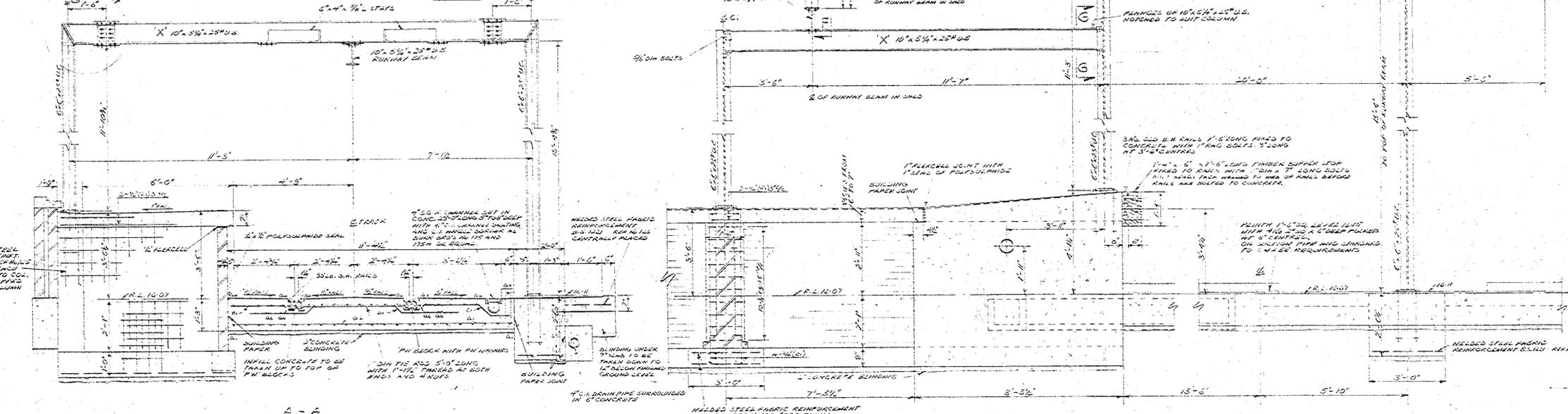
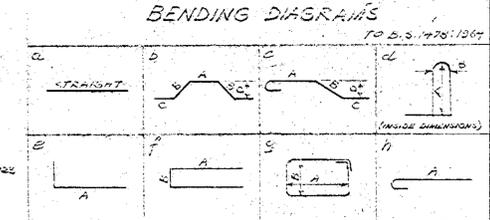
PLAN

|  |  |                                       |                       |
|--|--|---------------------------------------|-----------------------|
| BRITISH RAILWAYS BOARD<br>CHIEF CIVIL ENGINEER'S DEPT. |  | EASTERN REGION<br>KINGS CROSS STATION |                       |
| REVISED  | IMMINGHAM<br>DIESEL MAINTENANCE AND<br>SERVICING DEPOT<br>LUBRICATING OIL<br>OFF-LOADING POINT |                                       |                       |
| D.E. CORRES.   | CCE  | APPROVED                              | 4.10.65               |
| NW 27568   | N.J.N.   | SCALES 1/4", 1/2" & 1" = 1 FT.        |                       |
| A. I.  | J.D. WEST  | A.C.E. (MOD.)                         | 65DR.140/46           |
| M. L.  | CHIEF CIVIL ENGINEER   |                                       | C.C.E.'S No. 65NW/307 |
| SHEET  | OF   |                                       |                       |





| BENDING SCHEDULE |         |        |        |       |       |       |           |        |    |         |  |
|------------------|---------|--------|--------|-------|-------|-------|-----------|--------|----|---------|--|
| LOCATION         | MARK    | DIA    | LENGTH | No    | TOTAL | A     | B         | C      | D  | REMARKS |  |
| SLABS            | a1      | 3/4"   | 30'-0" | 23    |       |       |           |        |    |         |  |
|                  | a2      | 3/4"   | 11'-0" | 41    |       |       |           |        |    |         |  |
|                  | a3      | 3/4"   | 14'-0" | 1     |       |       |           |        |    |         |  |
|                  | a4      | 3/4"   | 5'-0"  | 1     |       |       |           |        |    |         |  |
|                  | a5      | 3/4"   | 23'-5" | 22    |       |       |           |        |    |         |  |
|                  | b1      | 3/4"   | 3'-0"  | 21    |       | 2'-1" |           |        |    |         |  |
|                  | b2      | 3/4"   | 3'-0"  | 40    |       | 3'-2" | 5"        | 2'-3"  | 5" |         |  |
|                  | c1      | 3/4"   | 5'-0"  | 21    |       | 2'-5" | 10"       | 5"     | 5" |         |  |
|                  | COLUMNS | d1     | 7/8"   | 7'-0" | 30    |       | 1'-2 1/2" | 2 1/2" |    |         |  |
|                  |         | e1     | 7/8"   | 7'-0" | 4     |       | 5'-0"     |        |    |         |  |
| f1               |         | 1 1/2" | 7'-0"  | 2     |       | 5'-1" | 1'-0"     |        |    |         |  |
| g1               |         | 1 1/2" | 7'-0"  | 10    |       | 1'-3" | 3"        |        |    |         |  |
| h1               |         | 1 1/2" | 7'-0"  | 2     |       | 5'-1" | 1'-0"     |        |    |         |  |



- NOTES:
- ALL LEVELS REFER TO ORIGINARY SURFACE UNLESS FOR DETAILS OF FOUNDATION AS SHOWN.
  - ALL HOLES TO BE 1/8" DIA FOR 1/4" DIA BOLTS UNLESS OTHERWISE STATED.
  - ALL WELDS TO BE 1/4" FILLET UNLESS OTHERWISE STATED.
  - ALL TIMBER TO BE KILN DRIED OR TO BE TREATED WITH OTHER APPROPRIATE PRESERVATIVE.
  - ALL REINFORCED CONCRETE TO BE 1:2:4 MIX ALL W/MS CONCRETE TO BE 1:2:4 (150) W/MS BLENDING TO BE 1:1:1 (150) W/MS.
  - EXCEPT FOR SURFACE STOP, WHICH IS TO BE HARDWOOD, TIMBER IS TO BE PITCH PINE OR SELECTED SOFT WOODS.
  - STEELWORK MARKED 'A' TO BE FABRICATED OUT OF REINFORCED RUNWAY BEAM STEELWORK ON SITE.
  - CONCRETE PAVING TO BE TREATED WITH LITHURIN M/S.

THIS DRG TO BE READ IN CONJUNCTION WITH CONTRACT DRS No 41 & SUPERSEDES IT WHERE APPLICABLE

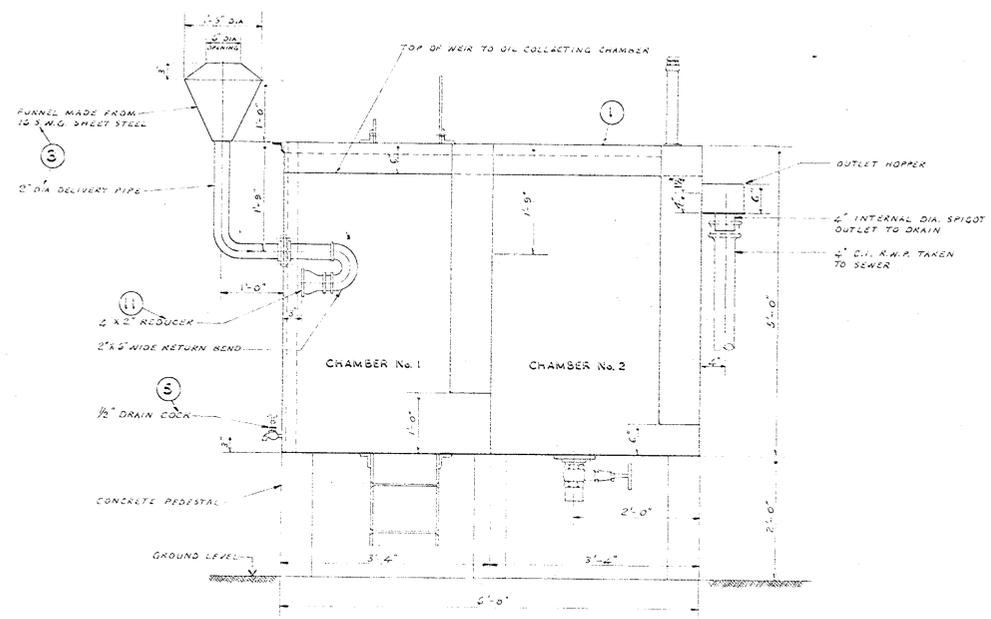
|   |   |  |        |
|---|---|--|--------|
| B.R.B. BRITISH RAILWAYS<br>CHIEF CIVIL ENGINEER'S DEPT.   |   | EASTERN REGION<br>KING'S CROSS STATION |        |
| REVISED   | HARRISON                                |  |        |
| 1.23.2.1966<br>REDRAWN.   | DIESEL MAINTENANCE<br>& SERVICING DEPOT |  |        |
| LUBRICATING OIL OFF-LOADING POINT<br>APPROACH ROAD AND ALTERATIONS TO<br>LOADING DOCK AND ROIST GALLERY |   |  |        |
| DE. CORES. C.C.E.   | APPROVED                                | 4-3-66                                 | SCALES |
| Z.G.  | 1/4" = 1' TO 1/4"                       |  |        |
| E.M.T.  | 65. DE 1400                             |  |        |
| SHEET OF  | CHIEF CIVIL ENGINEER No. 66AW/33 A      |  |        |



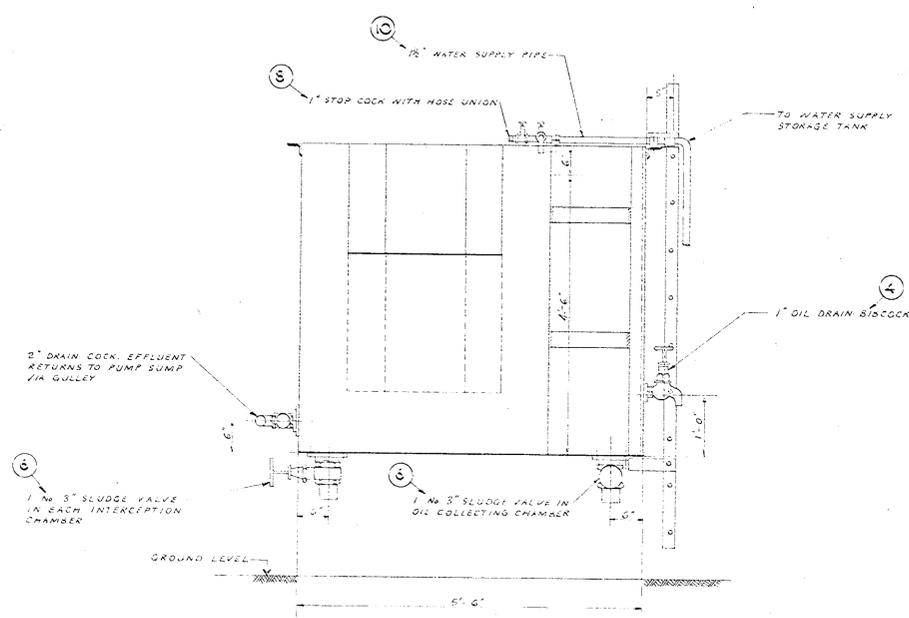
THIS PORTION OF ROADWAY TO BE 5' CONCRETE ON 4" SANDSTONE WITH CONSTRUCTION JOINT AT 10'0" CENTRES

|        |                |
|--------|----------------|
| STORES | SERVICING SHED |
|--------|----------------|

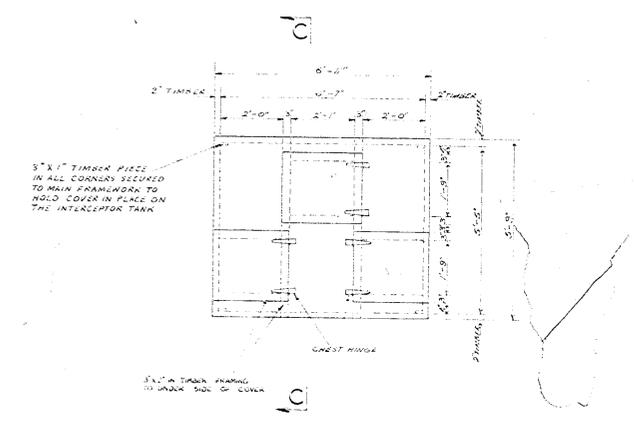
SITE PLAN



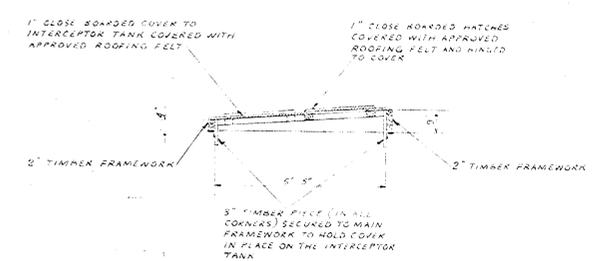
A-A



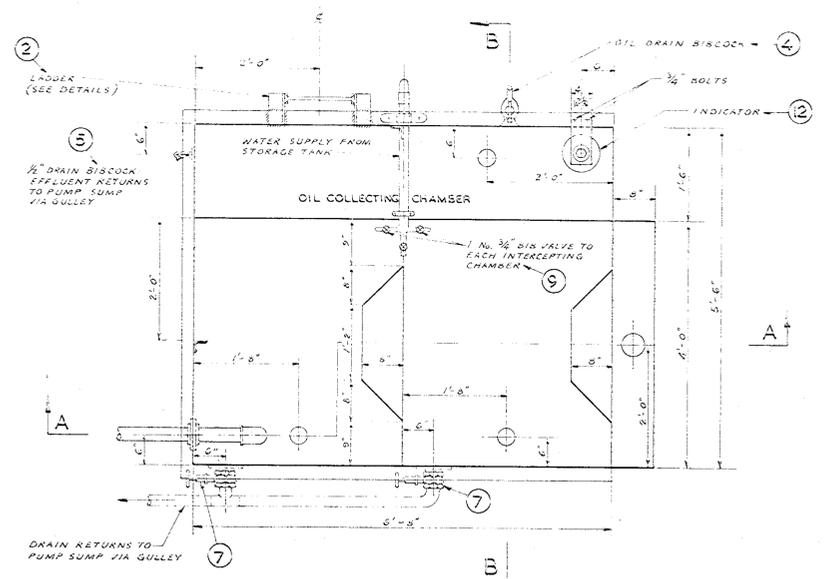
B-B



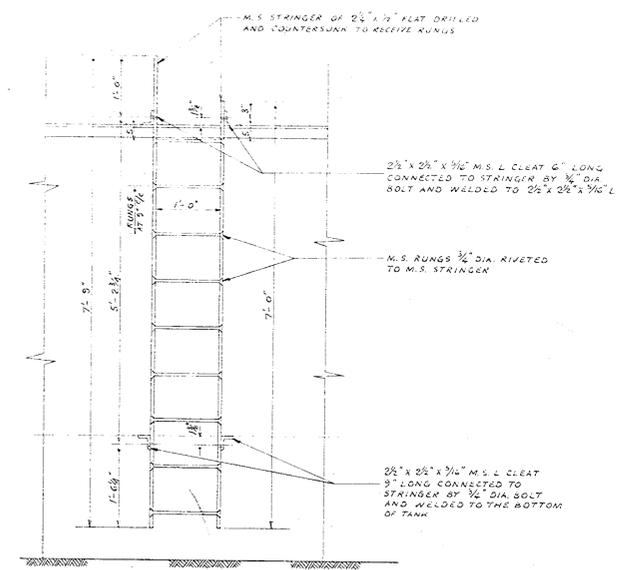
PLAN OF TIMBER INTERCEPTOR COVER



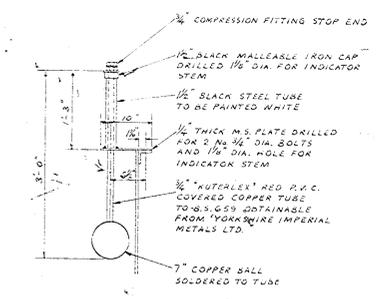
C-C



PLAN



DETAILS OF LADDER



OIL COLLECTING CHAMBER INDICATOR

| SCHEDULE OF COMPONENTS |   |          |
|------------------------|---|----------|
| ITEM No.               | DESCRIPTION   | NO. OFF. |
| 1                      | TANK WITH RAFFLES, OUTSIDE HOPPER AND LADDER FRAMES   |          |
| 2                      | LADDER  |          |
| 3                      | FUNNEL AND 2 IN. PIPE WITH FLANGE   |          |
| 4                      | DRAIN COCK 1 IN. - OIL  |          |
| 5                      | AIR COCK 1/2 IN. - OIL  |          |
| 6                      | SLUDGE VALVE 3 IN WITH FLANGED BOSS   |          |
| 7                      | DRAIN COCK 2 IN. WITH FLANGED BOSS  |          |
| 8                      | STOP COCK WITH HOSE UNION 1 IN.   |          |
| 9                      | AIR VALVE 1/2 IN.   |          |
| 10                     | 2 FT LENGTH OF 1/2 IN DIA. GALVANISED STEEL TUBE COMPLETE WITH REDUCING CROSS UNION & CLIPS |          |
| 11                     | 2\"/>   |          |
| 12                     | OIL COLLECTING CHAMBER INDICATOR COMPLETE   |          |

- NOTES**
- 1/2" M.S. PLATE 2 1/2" x 2 1/2" x 3/16" 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 AS DETAILED, TO BE SUPPLIED BY THE ERECTOR.
  - PAINTING SPECIFICATION**  
THE TANK TO BE SHOT BLASTED INSIDE AND OUT FOLLOWED BY A COAT OF ZINC RICH EPOXY RESIN BOUND PAINT. THE TANK INTERIOR IS ALSO TO BE GIVEN TWO SPRAYED COATS OF COAL TAR EPOXY RESIN BOUND PAINT ('STAG' COAL TAR EPOXY TANK LINING AS MADE BY ICI IS ACCEPTABLE).  
SITE PAINTING  
EXTERNAL SURFACES TO BE PAINTED AS SPECIFIED FOR STEELWORK

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

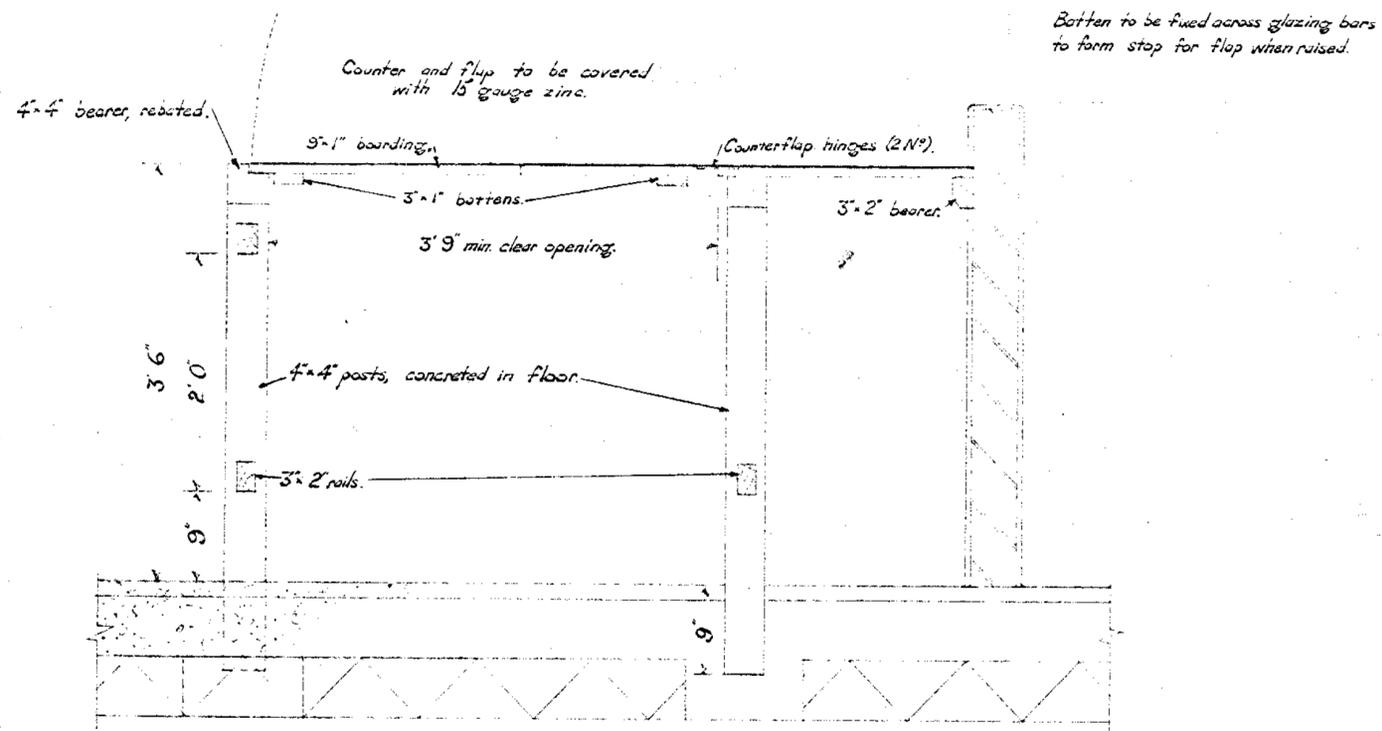
REVISIONS

|         |   |          |            |
|---------|---|----------|------------|
| REVISED | A | APPROVED | J. D. WEST |
| REVISED | B | APPROVED | J. D. WEST |
| REVISED | C | APPROVED | J. D. WEST |
| REVISED | D | APPROVED | J. D. WEST |
| REVISED | E | APPROVED | J. D. WEST |
| REVISED | F | APPROVED | J. D. WEST |
| REVISED | G | APPROVED | J. D. WEST |
| REVISED | H | APPROVED | J. D. WEST |
| REVISED | I | APPROVED | J. D. WEST |
| REVISED | J | APPROVED | J. D. WEST |

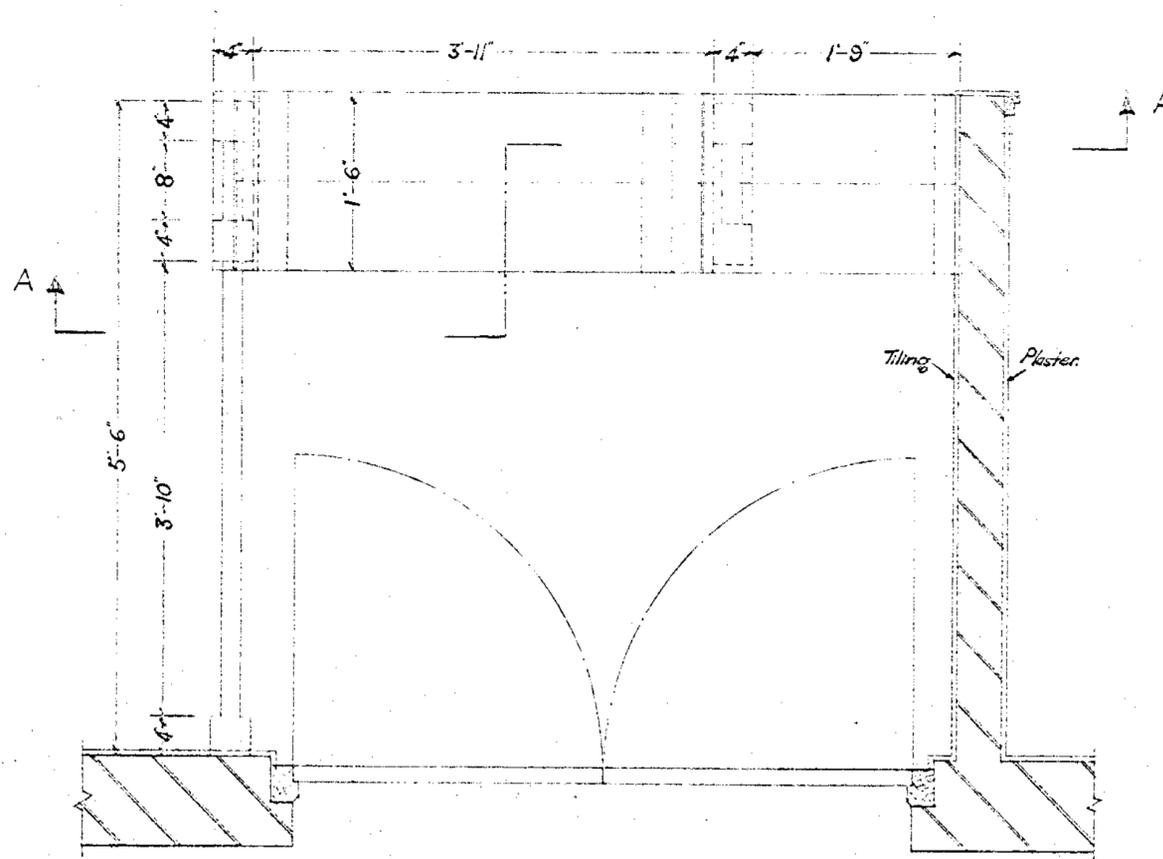
D.E. CORRES. C.E. APPROVED 2.8.63 SCALES 1/2" = 1'-0"

SHEET OF 25

60LCS276



SECTION A-A.



PLAN.

Design to be handed to suit layout of oil store.

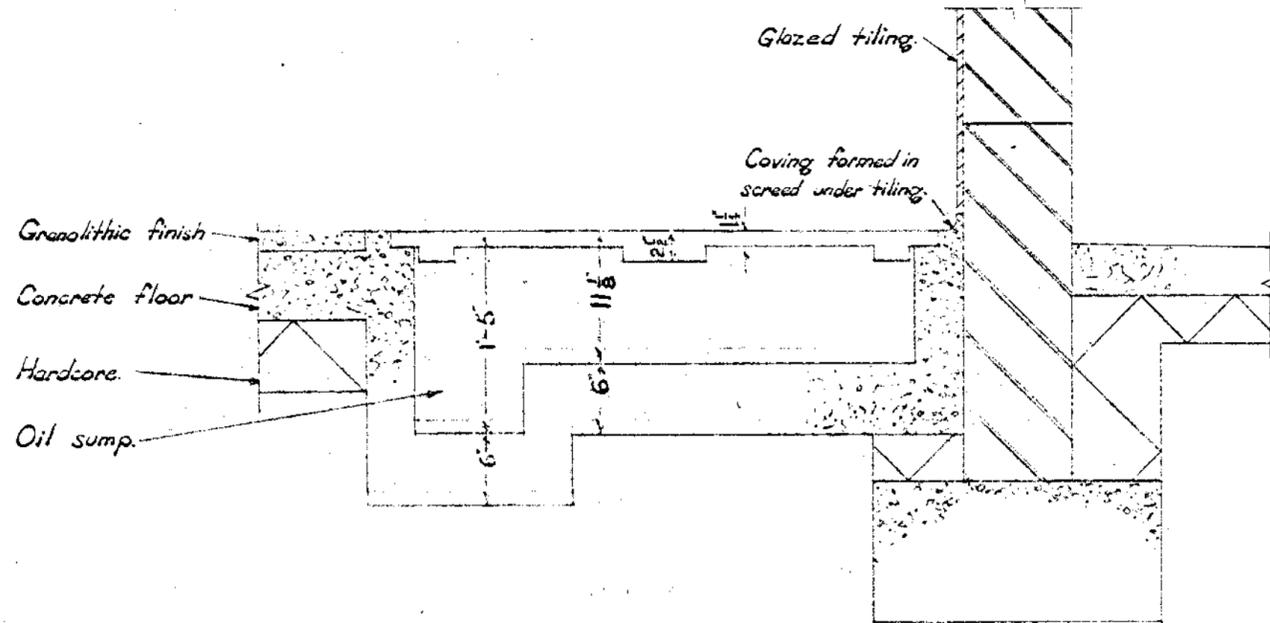


|  |                      |  |                   |
|--|----------------------|--|-------------------|
| S. F. C. BRITISH RAILWAY<br>CHIEF CIVIL ENGINEER'S DEPT. |                      | EASTERN REGION<br>KING'S CROSS STATION |                   |
| REVISED  |                      |  |                   |
| <b>DIESEL MAINTENANCE DEPOTS</b>                         |                      |  |                   |
| <b>OIL STORES</b>  |                      |  |                   |
| <b>COUNTER DETAILS.</b>                                  |                      |  |                   |
| D.E. COURRES, C.E.                                       | APPROVED             | 24.5.56                                | SCALE—            |
| NW21642.   |                      |  | 1 INCH TO 1 FOOT. |
| JHM  | R. E. SADLER, C.E.   |  | DATE              |
|  | A. K. TERRIS         |  | 23 NOV 1958       |
|  | for A. K. TERRIS     |  |                   |
|  | CHIEF CIVIL ENGINEER |  |                   |
|  |                      |  | 56. PUE-176       |
|  |                      |  |                   |

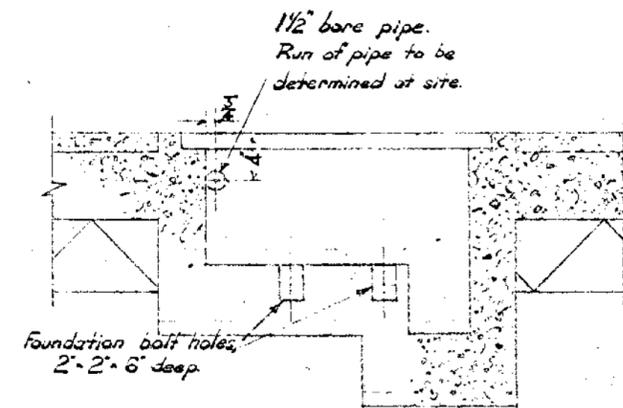
Ed. B. DALMEYER

55 L. De 1

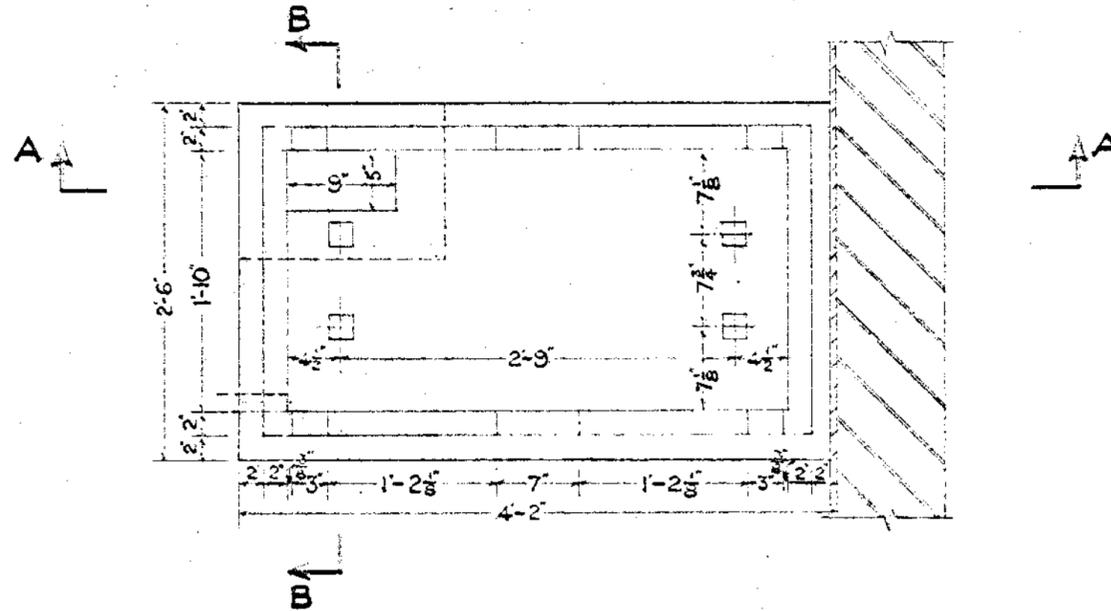
**CONTRACT N° 4.  
DRAWING N° 4.**



**SECTION A-A.**



**SECTION B-B.**



**PLAN.**

*This plan is based on L.M. Region M.&E.E. Drawing N° 23/640, but with pit deepened to bring pads of heater down to floor level.*

RAILTRACK



067378LNE

|   |  |  |                            |
|---|--|--|----------------------------|
| B. T. C. BRITISH RAILWAYS<br>CHIEF CIVIL ENGINEER'S DEPT. |  | EASTERN REGION<br>KING'S CROSS STATION |                            |
| REVISED   | <b>DIESEL MAINTENANCE DEPOTS</b>         |  |                            |
|   | <b>OIL STORES.</b>                       |  |                            |
|   | <b>OIL DRUM HEATER FOUNDATIONS.</b>      |  |                            |
| D.E. CORRES.  | C.E. APPROVED                            | 21. 8. 56.                             | SCALE—<br>1 INCH TO 1 FOOT |
|   | NW. 21642.                               |  |                            |
| JHM.  | R. E. SADLER<br>A/C.E. (M.)              | D.E. NO.                               | 123 NOV 1956               |
| SHEET OF  | for A. K. TERRIS<br>CHIEF CIVIL ENGINEER | D.E. NO.                               | 56.PUE.179.                |

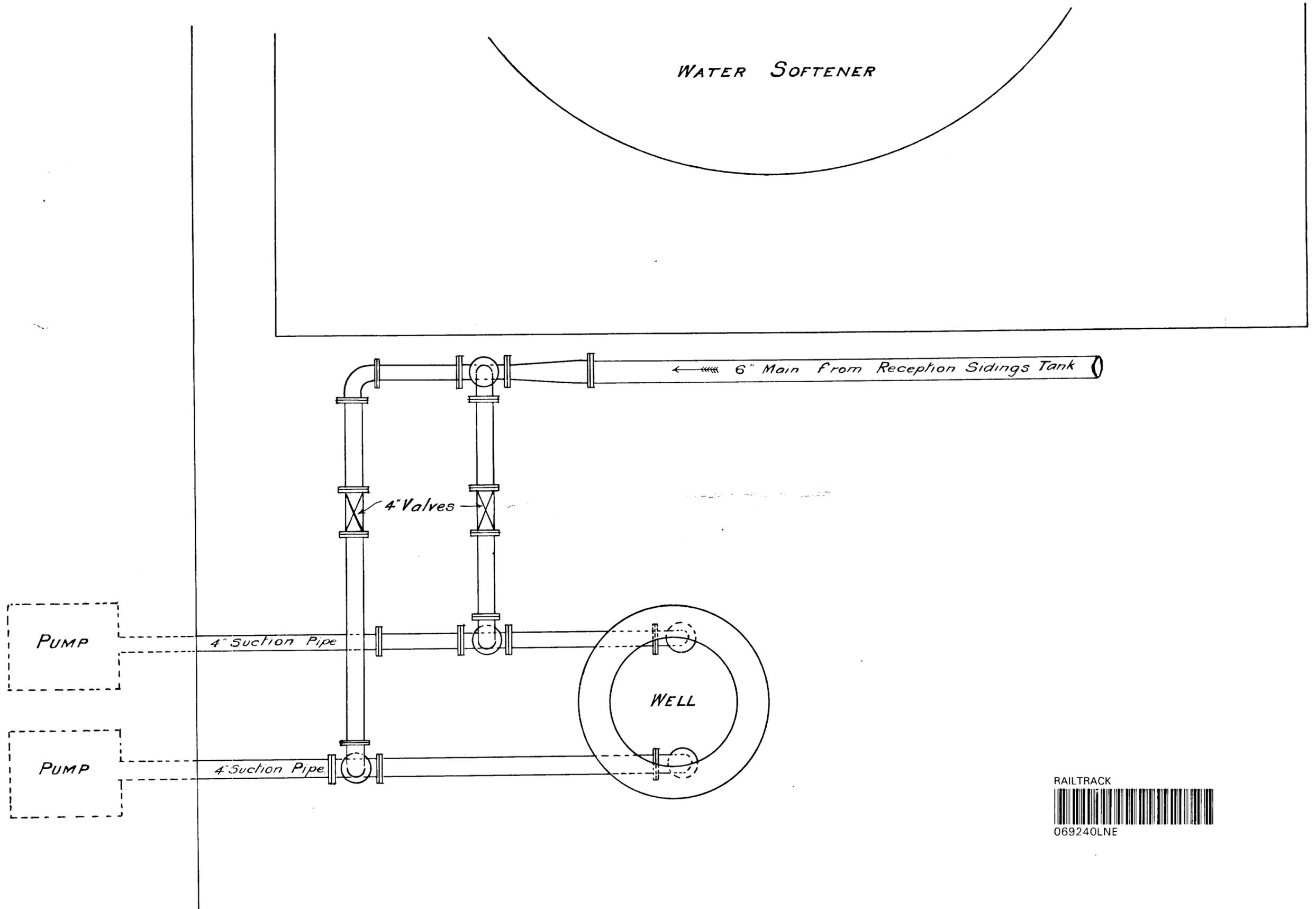
(824) R. B. DALLMEYER

55 L 201

— IMMINGHAM DOCK. —

Arrangement of Pipes connecting Reception Sidings Main to Pump Suction Pipes at Engine Shed Tank.

— Scale 1/2" to a Foot. —



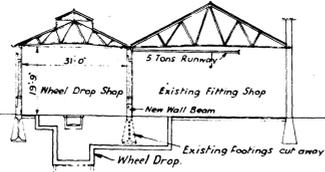
RAILTRACK



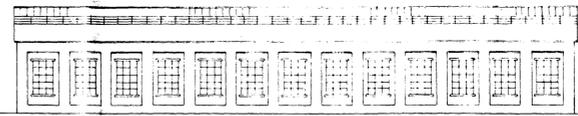
069240LNE



PROPOSED IMPROVEMENTS.

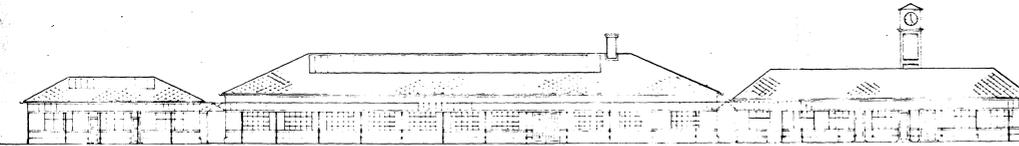


SECTION THRO' WHEEL DROP SHOP. A.A.

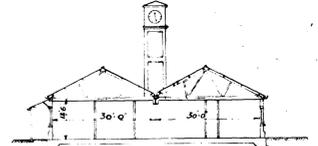


WHEEL DROP SHOP  
ELEVATION OF NORTH WALL.

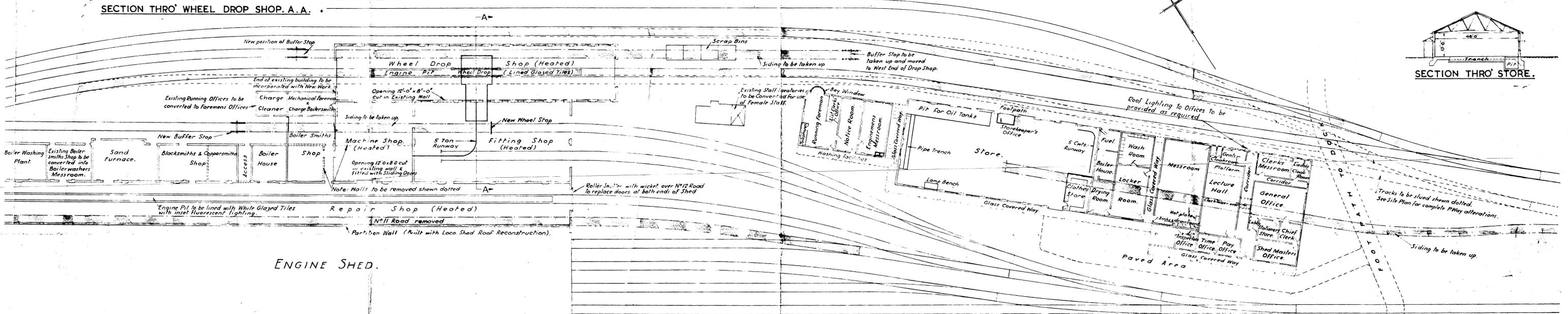
Note: New Work coloured.



Running Offices, Etc.  
Stores and Locker Rooms Etc.  
Offices.  
ELEVATION OF SOUTH WALL.

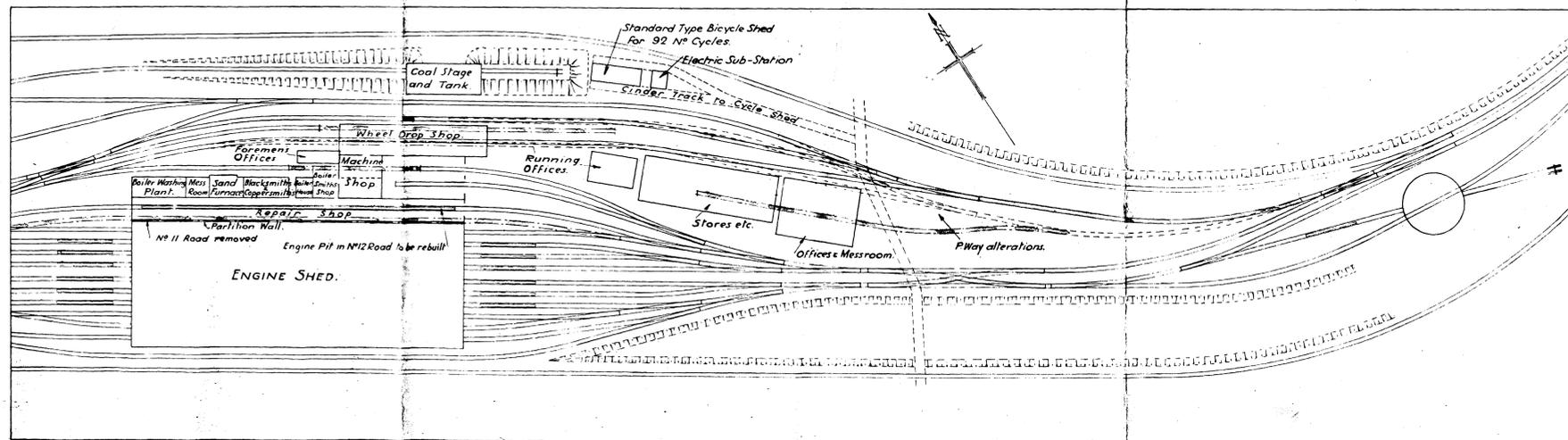


(ADD IN ONE SPAN INSTEAD OF AS SHOWN)  
SECTION THRO' OFFICES.



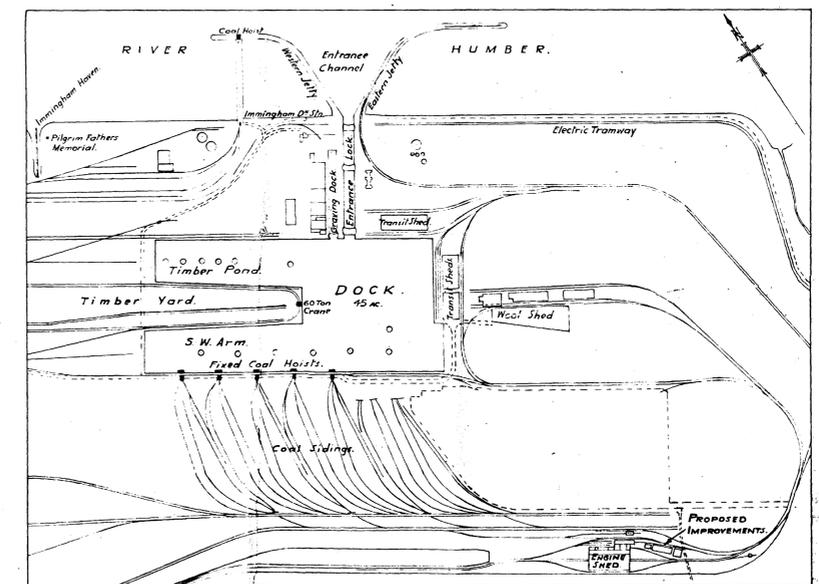
PLAN.

SCALE 20 FEET TO 1 INCH



SITE PLAN.

SCALE 66 FEET TO 1 INCH



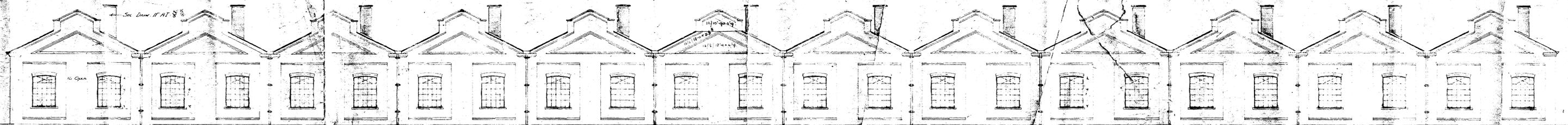
KEY PLAN.

SCALE 9 INCHES TO 1 MILE

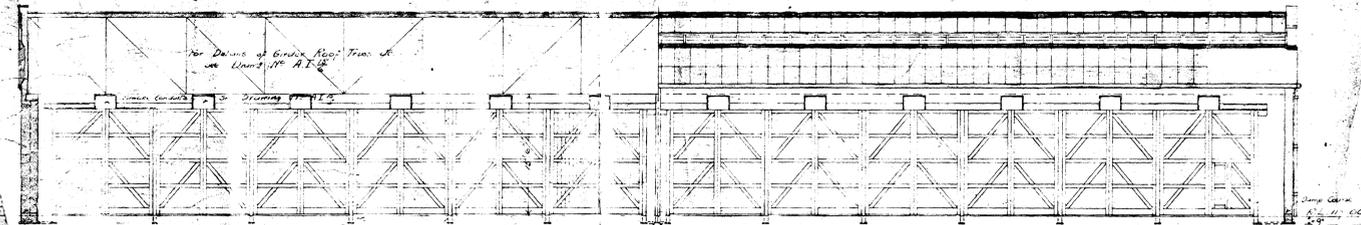


H.C.R.<sup>Y</sup> AND DOCK, ENGINE SHED AT BIRMINGHAM.

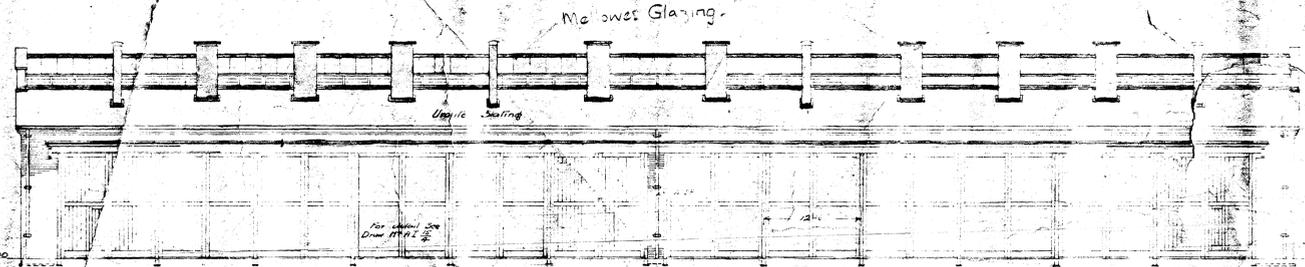
SCALE: - 8 FT. TO AN INCH.



ELEVATION.

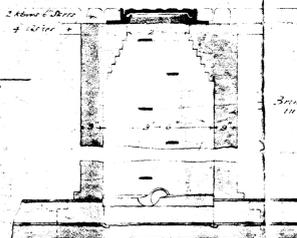


SECTION C-D.

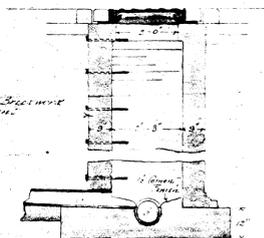


END ELEVATION.

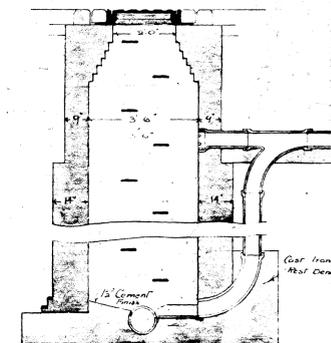
DETAIL OF MANHOLES.  
SCALE: 1/2" TO A FOOT.



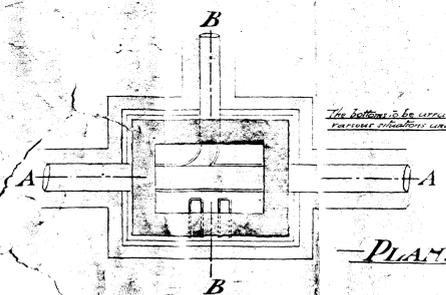
SECTION A.



SECTION B.



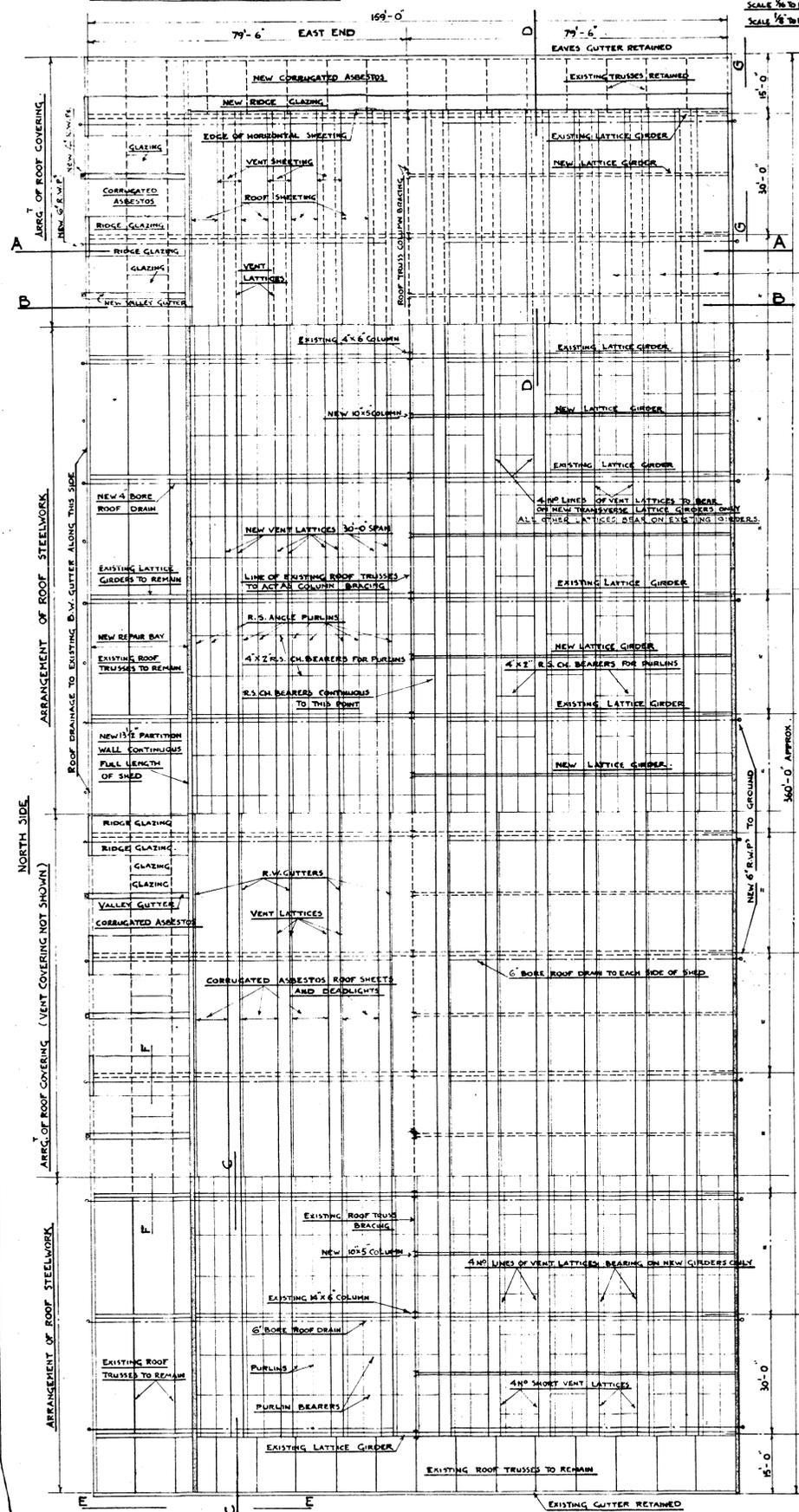
TYPE SECTION OF MANHOLES SHOWING JUNCTION OF DRAINS WHEN AT DIFFERENT LEVELS.



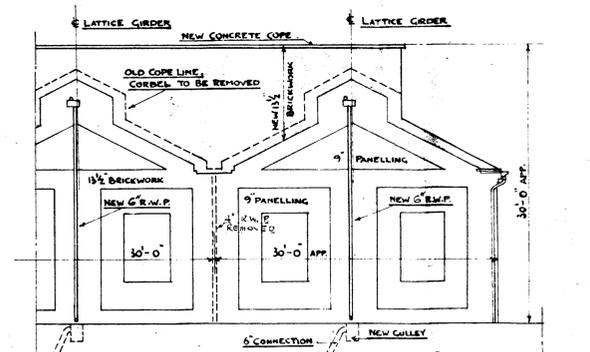
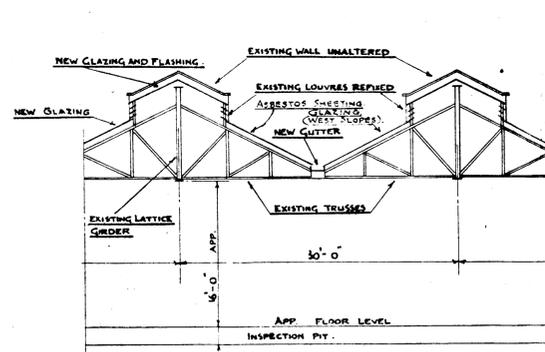
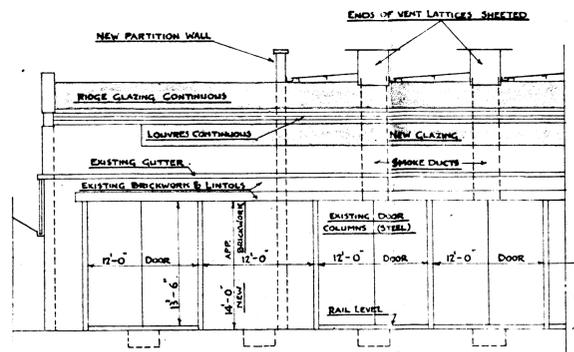
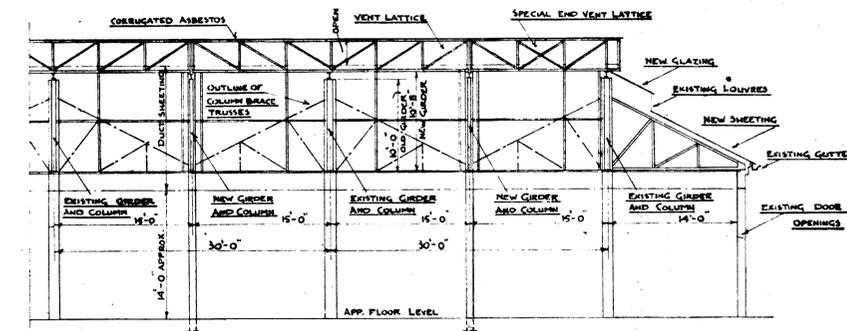
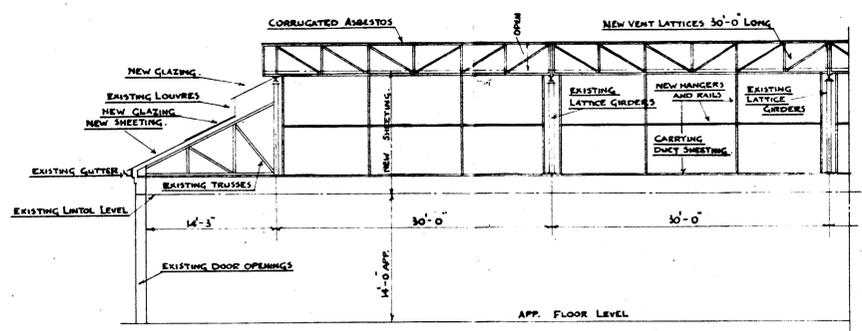
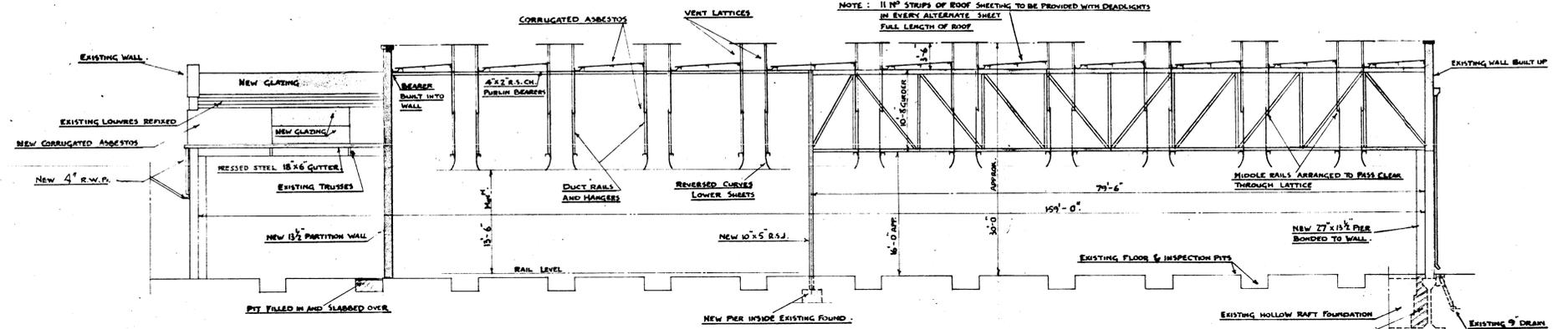
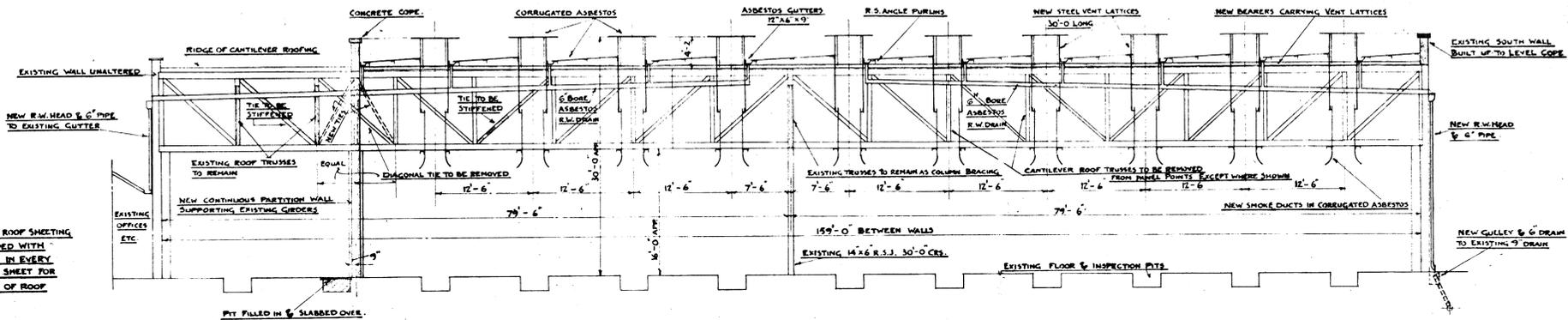
PLAN.

The bottom to be arranged to suit the various situations and sizes of pipes.





NOTE:  
IF NO STRIPS OF ROOF SHEETING  
TO BE PROVIDED WITH  
DEADLIGHTS IN EVERY  
ALTERNATE SHEET FOR  
FULL LENGTH OF ROOF

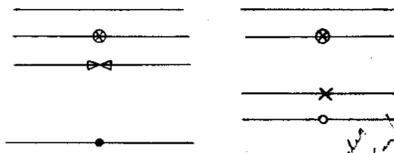


**NOTE**

FRESH WATER MAINS SHOWN  
 STOP VALVES "  
 NONE RETURN VALVES "  
 WATER COLUMNS "  
 FIRE HYDRANTS "  
 STOP COCKS "

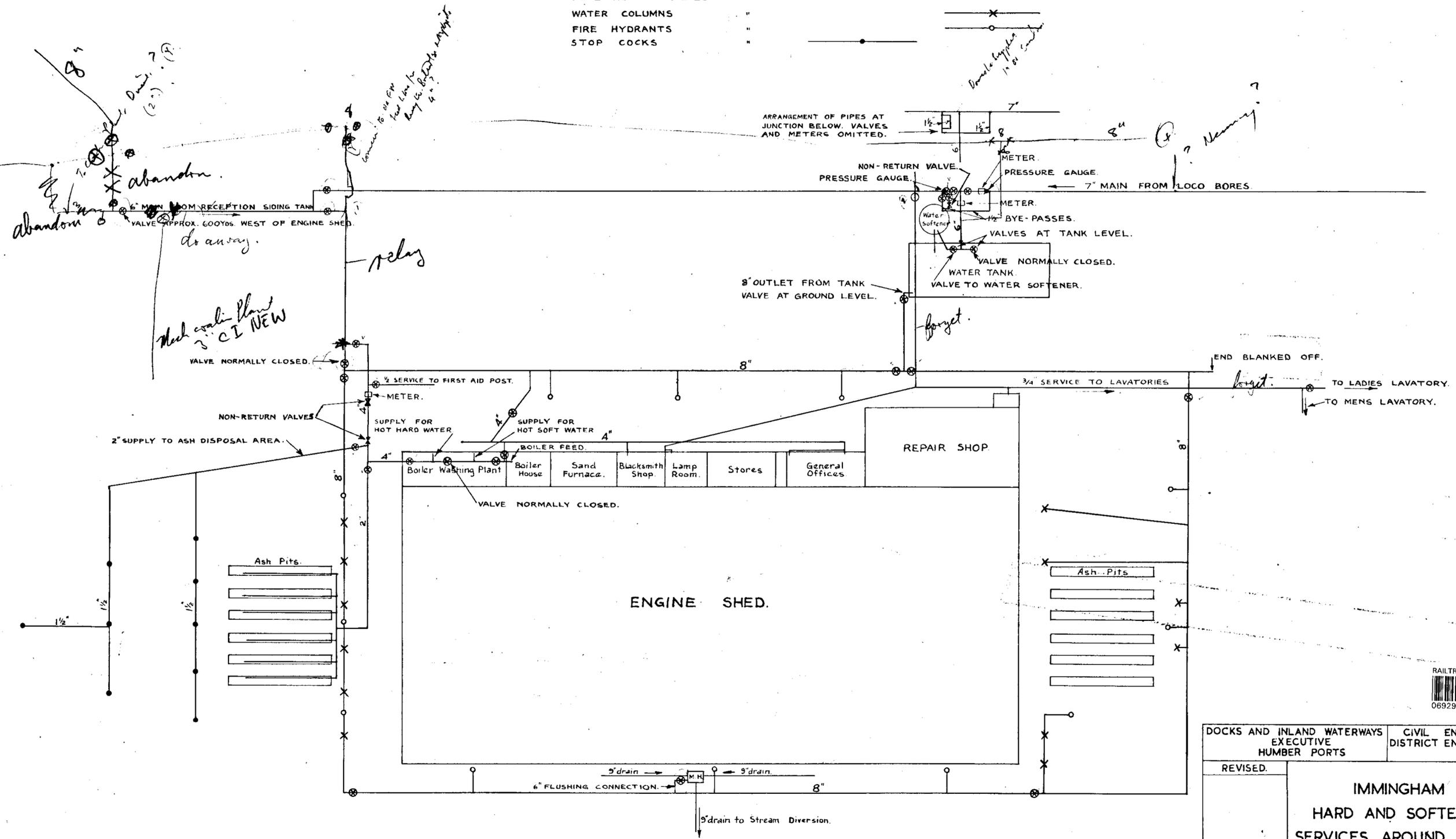
**HARD WATER,**

**SOFT WATER.**

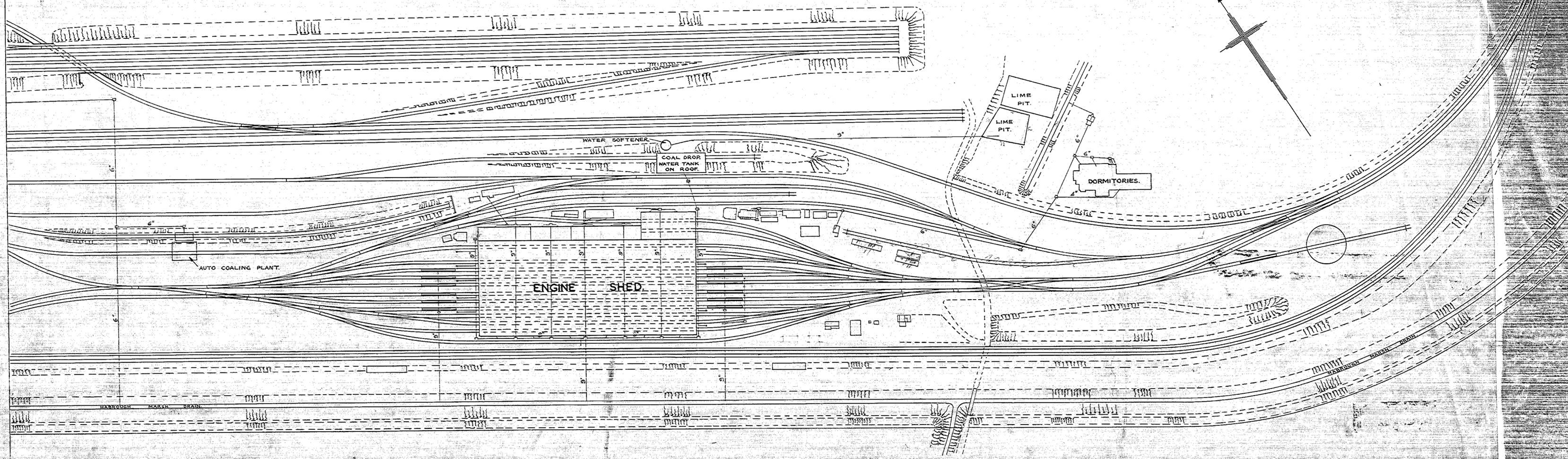


*Double supply  
1/2" or 3/4"*

ARRANGEMENT OF PIPES AT JUNCTION BELOW. VALVES AND METERS OMITTED.

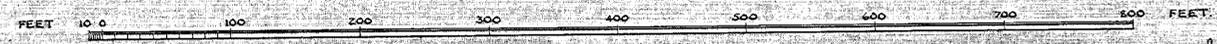


|   |  |   |  |                  |
|---|--|---|--|------------------|
| DOCKS AND INLAND WATERWAYS EXECUTIVE Humber Ports |  | CIVIL ENGINEER'S DEPT. DISTRICT ENGINEER FOR DOCKS GRIMSBY. |  |                  |
| REVISED.  | IMMINGHAM DOCK<br>HARD AND SOFTENED WATER SERVICES AROUND ENGINE SHED. |   |  |                  |
| ENG. COR. REF.                                    |  |   |  | APPROVED.        |
| MWJ   | MWJ  | <i>July 52</i>  |  | DRG No. 52/G/91. |

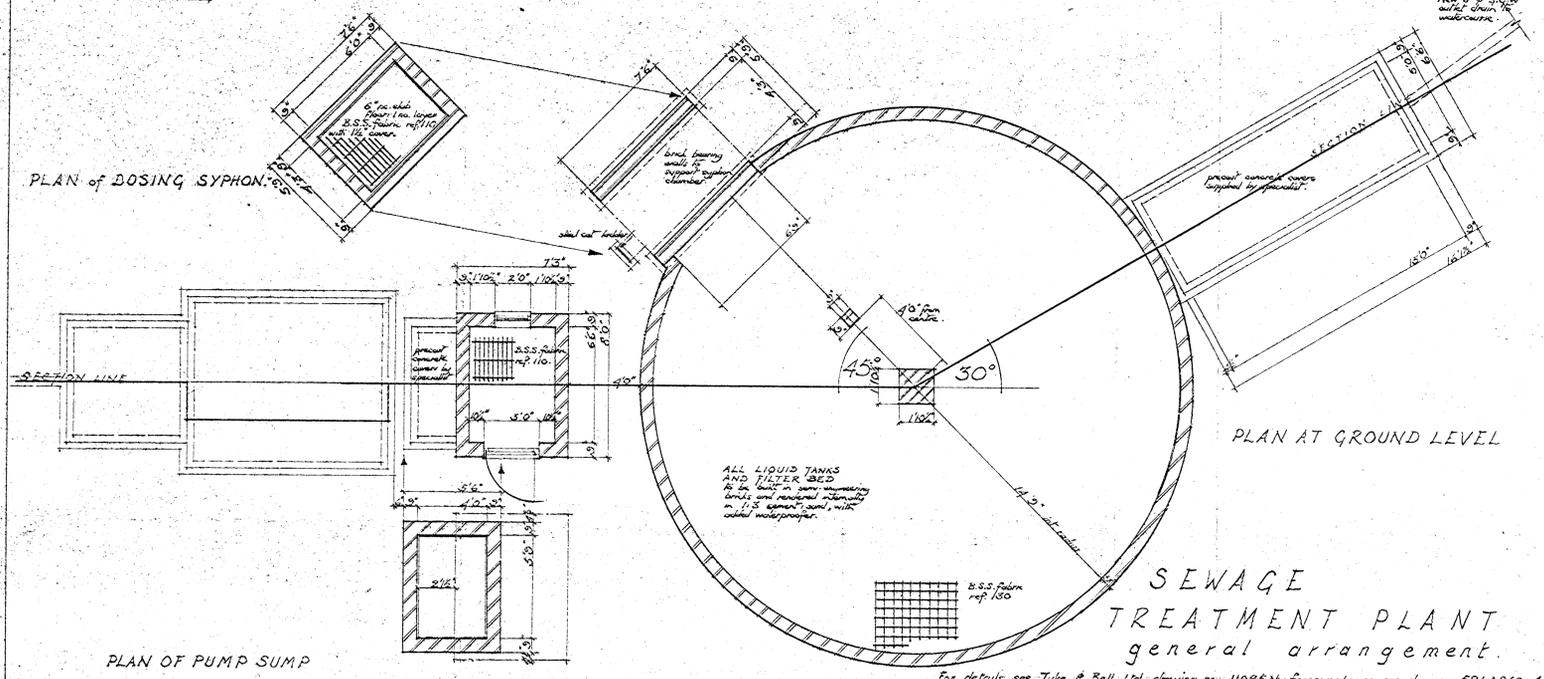
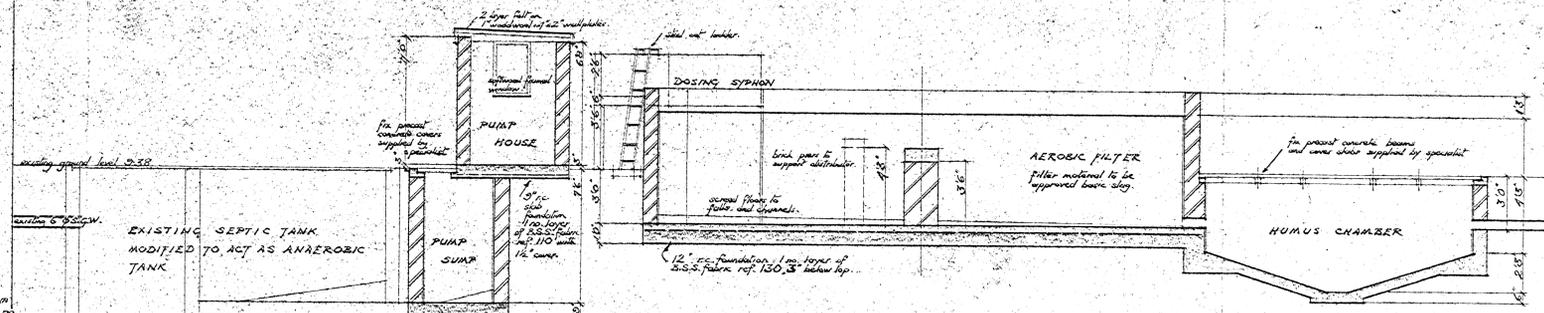
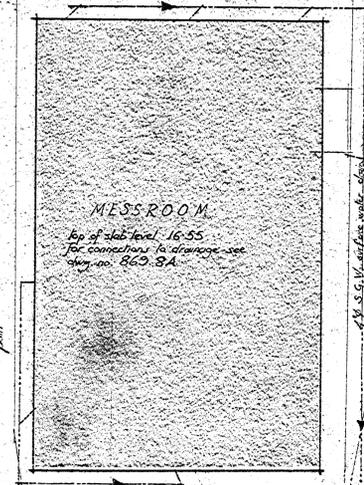


DRAINS COLOURED RED MAINTAINED BY RAILWAY EXECUTIVE (MOTIVE POWER SUPERINTENDENT).  
 DRAINS COLOURED BLUE MAINTAINED BY DOCKS AND INLAND WATERWAYS EXECUTIVE (CIVIL ENGINEER HUMBER PORTS).

SCALE: 66 FEET TO AN INCH



|  |  |   |          |
|--|--|---|----------|
| DOCKS AND INLAND WATERWAYS EXECUTIVE HUMBER PORTS. |  | CIVIL ENGINEER'S DEPT. DISTRICT ENGINEER FOR DOCKS GRIMSBY. |          |
| REVISED  | <b>IMMINGHAM DOCK</b><br><b>MOTIVE POWER DEPOT</b><br><b>ALLOCATION OF RESPONSIBILITY</b><br><b>DRAINAGE</b> |   |          |
| ENG. COR. REF. PAD 721                             | APPROVED 11/6/1952   | SCALE 66 FEET TO AN INCH                                    |          |
| M.W.J. 24  | M.W.J.   | DRG. No.  | 52/G/113 |

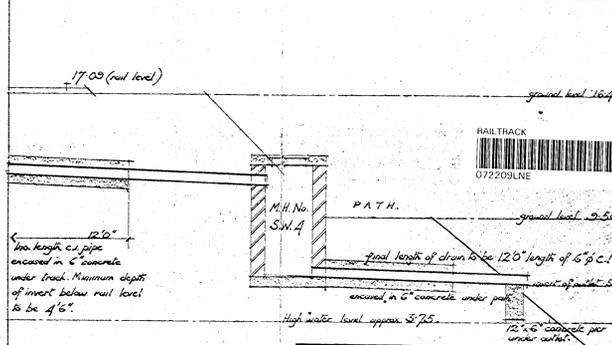


**SEWAGE TREATMENT PLANT**  
general arrangement.

For details see: Tuke & Ball, Ltd. drawing no. 11085N; for pump-house see drawing no. 58LA 869.45

**SURFACE WATER DRAINAGE.**

| Manhole No. | Cover Level   | Invert Level | Internal Dims. | Construction                        |
|-------------|---------------|--------------|----------------|-------------------------------------|
| S.W.1.      | 17.02         | 12.75        | 29" x 29"      | All similar: 24" x 18" C.I. covers. |
| S.W.2.      | 16.44         | 12.25        | 29" x 29"      | 9" semi-engineering brick walls.    |
| S.W.3.      | 16.44         | 11.75        | 29" x 29"      | 6" r.c. slab base.                  |
| S.W.4.      | 13.14 approx. | 6.44         | 29" x 29"      |                                     |



**PROFILE A-A**  
14" x 10"

**NOTE: LEVELS**  
Levels in area of new building are based on drawing no. 56LA 869.3B.  
Levels in Dormitory area are reduced from L.N.E.R. drawing (unnumbered) and may be unreliable.  
**ALL LEVELS TO BE CHECKED ON SITE**

**RECEIVED** 27/68  
Approved  
DATED 12.5.18  
SIGNED *Amundham M.P.D.*  
*Drainage Engineering Division*

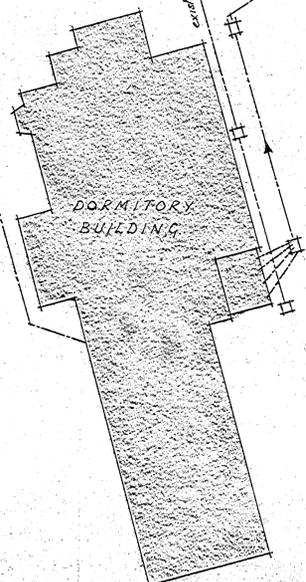
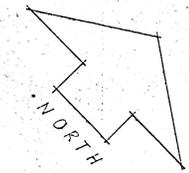
B.T.C. BRITISH RAILWAYS  
CHIEF CIVIL ENGINEER'S DEPT.  
EASTERN REGION  
KINGS CROSS STATION

**IMMINGHAM M.P.D.**  
messroom and washing accommodation  
Drainage Layout. (Site plan)

D.E. CORRES. C.C.E. APPROVED  
SCALES 1/4" = 10'  
1/2" = 10'

C.C.E.S. No. 5, L.N.E.R.  
C.C.E.S. No. 291, 292, 293, 294

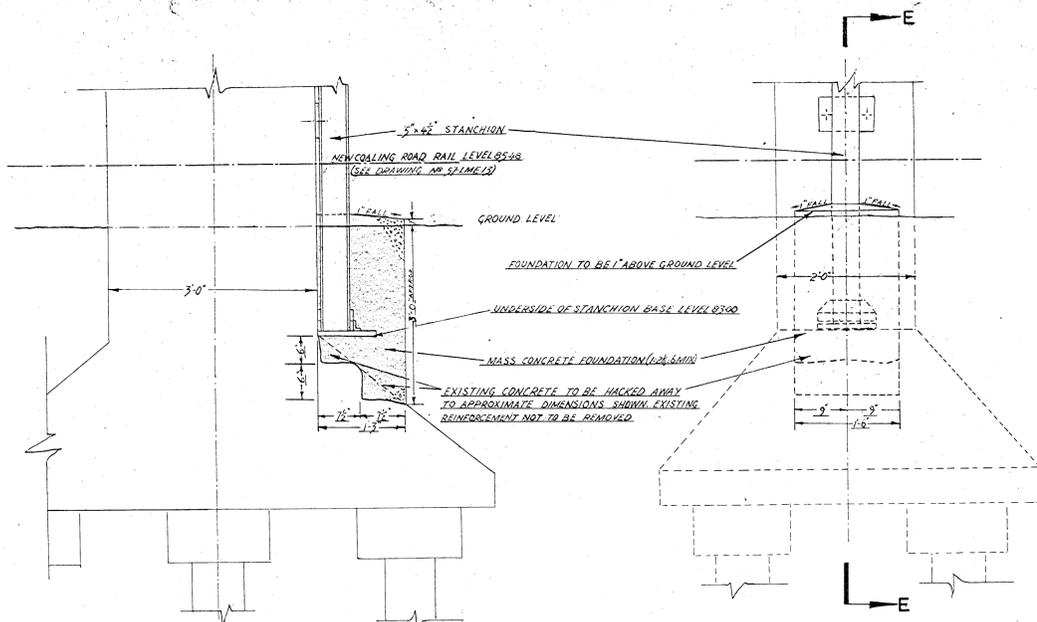
SHEET 1 OF 1  
CHIEF CIVIL ENGINEER



**· DRAINAGE PLAN ·**

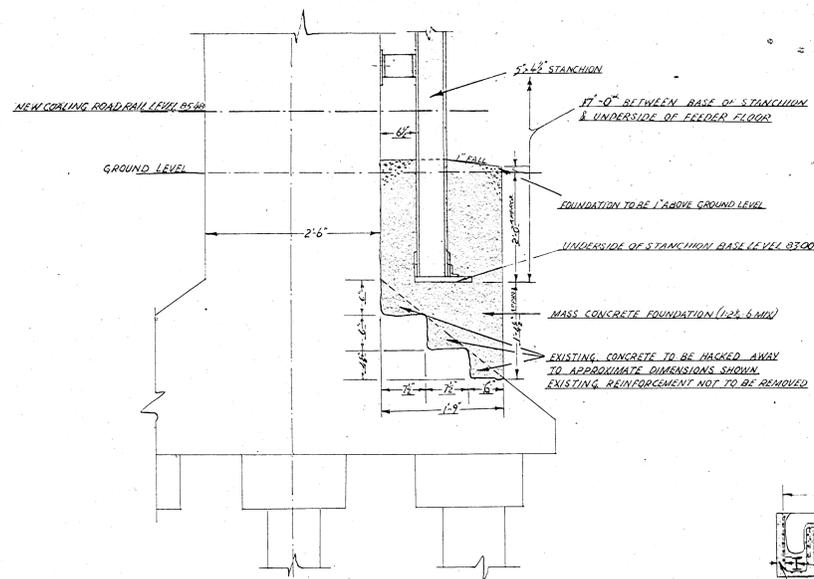
SEWAGE TREATMENT PLANT  
existing septic tank to be modified to act as anaerobic tank. New pump-house, syphon, filter, humus chamber and outfall. Remove existing outfall. New chain-line fence with 2 no. 8" swing gates.

As Inspector  
I hereby certify that the above  
is a true and correct  
copy of the original  
drawing.

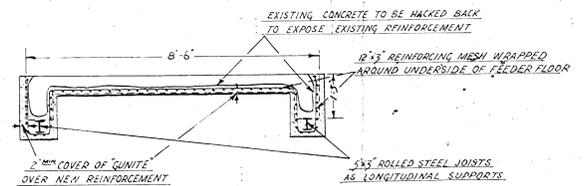


SECTION E-E

FRONT ELEVATION  
CORNER COLUMNS

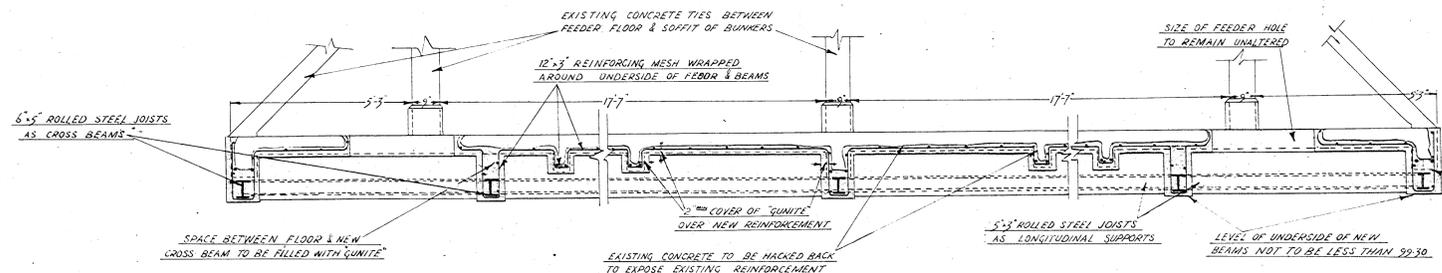


SECTION THROUGH CENTRE COLUMNS

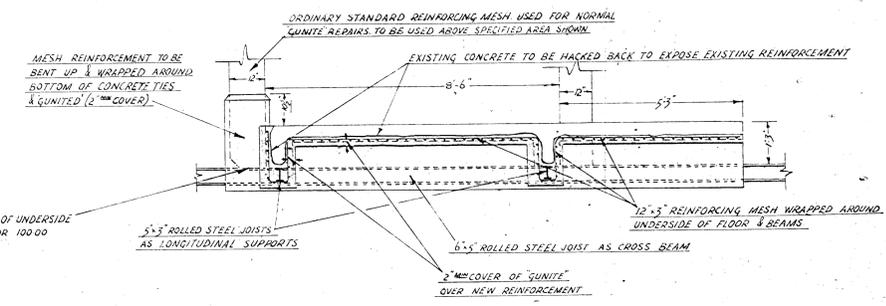


SECTION D-D

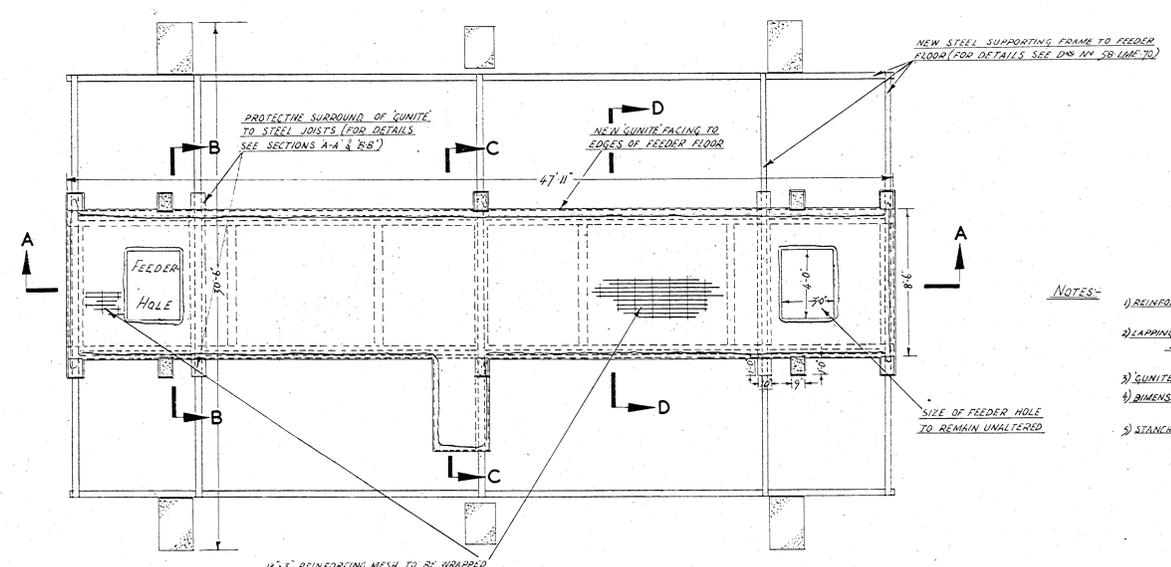
DETAILS OF STANCHION FOUNDATIONS  
SCALE: - 1 FOOT - 1 INCH



SECTION A-A

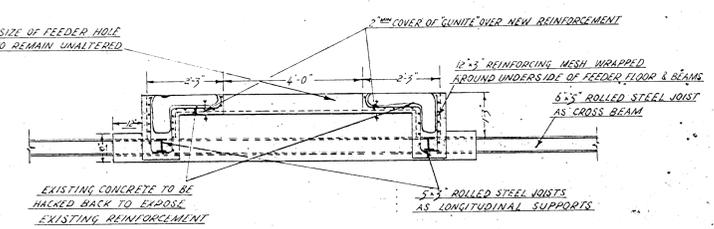


SECTION C-C



PLAN OF FEEDER FLOOR

DETAILS OF REPAIRS TO FEEDER FLOOR  
SCALE: - 2 & 2 FEET - 1 INCH



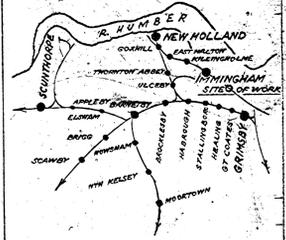
SECTION B-B

- NOTES:
- 1) REINFORCING MESH: REINFORCING MESH TO UNDERSIDE OF FEEDER FLOOR & BEAMS TO CONFORM TO BS 8110:1985 TABLE 4.10.1.10B.
  - 2) LAPPING OF REINFORCING MESH: ALL REINFORCING MESH IS TO BE LAID IN THE DIRECTION SHOWN ON THE PLAN & ALL JOINTS ARE TO BE LAPPED 12" LONGITUDINALLY & 6" CROSSWISE.
  - 3) GUNITE COVER: ALL GUNITE MUST BE 2" COVER OVER NEW REINFORCING FABRIC.
  - 4) DIMENSIONS: ALL MAIN DIMENSIONS SHOWN ARE EXISTING DIMENSIONS AND ANY INCREASE DUE TO THE REPAIR WORK IS TO BE DETERMINED ON SITE.
  - 5) STANCHION FOUNDATIONS: THE TOP OF THE STANCHION FOUNDATIONS MUST BE 1" ABOVE PRESENT GROUND LEVEL.

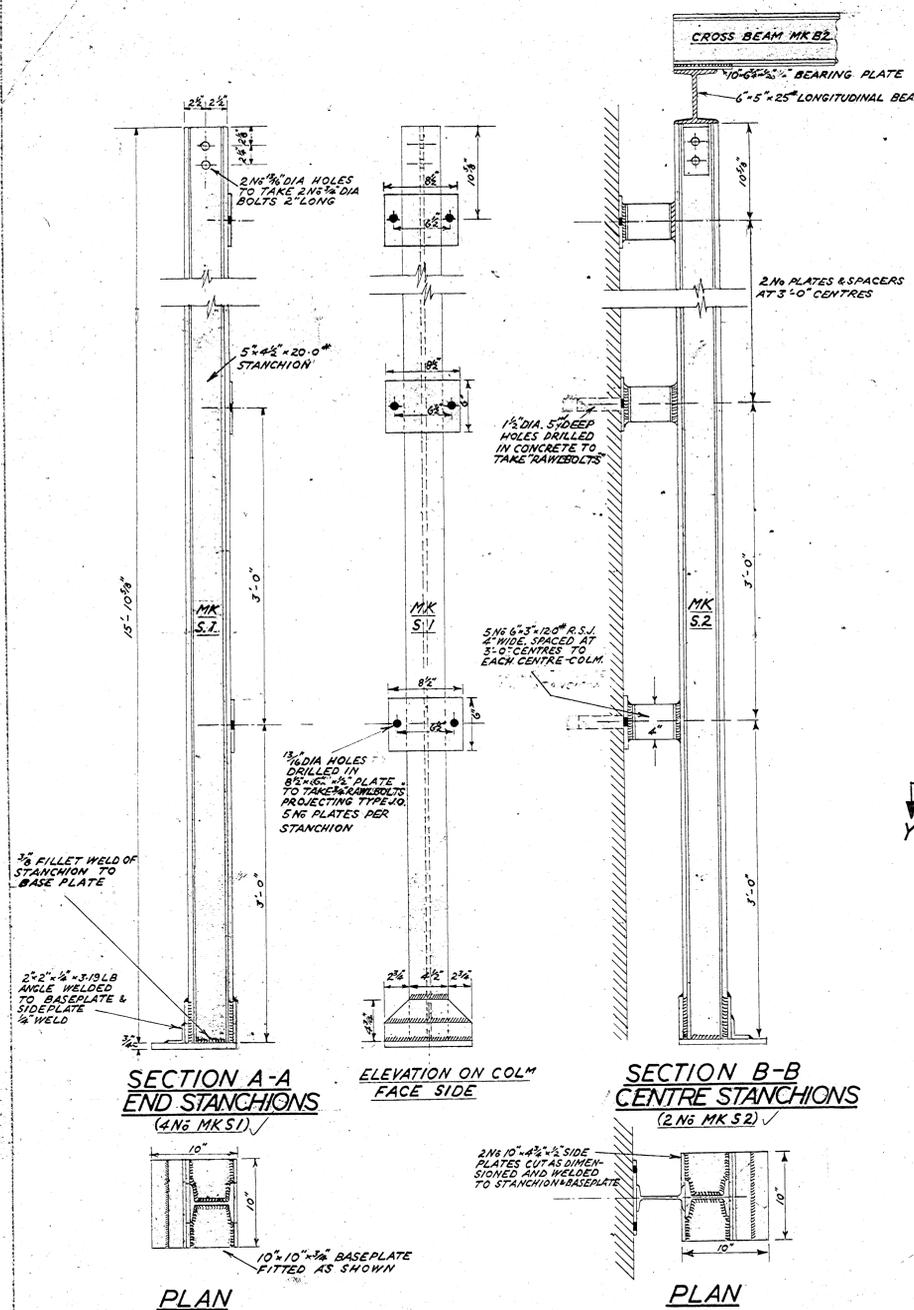


OFFICE COPY

|   |  |  |  |
|---|--|--|--|
| B.T.C. BRITISH RAILWAYS<br>CHIEF CIVIL ENGINEER'S DEPT. |  | EASTERN REGION<br>KING'S CROSS STATION |  |
| REVISED   | IMMINGHAM DOCK LOCO<br>REPAIRS TO COALING PLANT<br>DETAILS OF STANCHION FOUNDATIONS<br>& REPAIRS TO FEEDER FLOOR |  |  |
| D.E. CORRES. (CCE)                                      | APPROVED   | SCALE: - 4.2 & 1 FEET - 1 INCH         |  |
| M.E. 25195  |  | D.E.S. 8-ADP 206                       |  |
| A.J.S. A.J.S.   | ASSISTANT ENGINEER   | CCE'S 58-LME-71                        |  |
| SHEET 2 OF 4  | CHIEF CIVIL ENGINEER   | No.                                    |  |

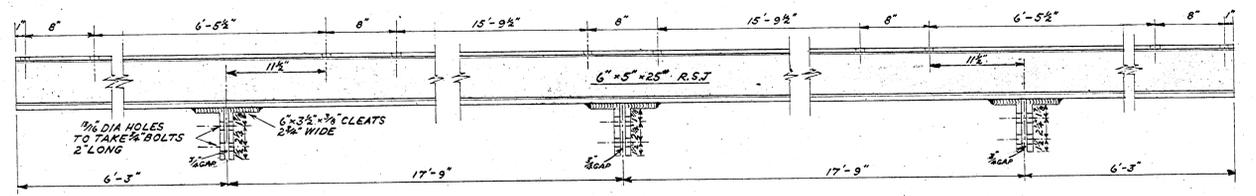


KEY MAP DIAGRAM

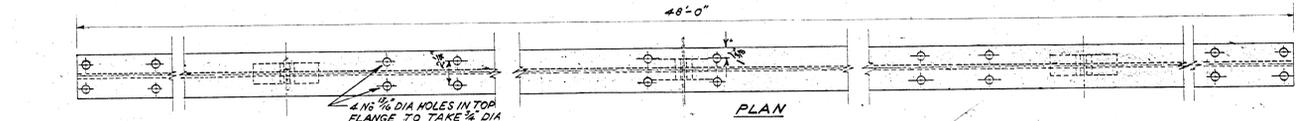


SECTION A-A END STANCHIONS (4N6 MK S1)

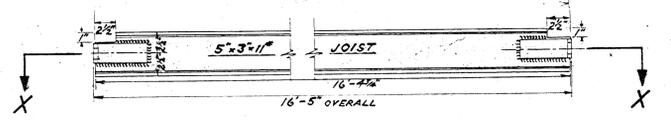
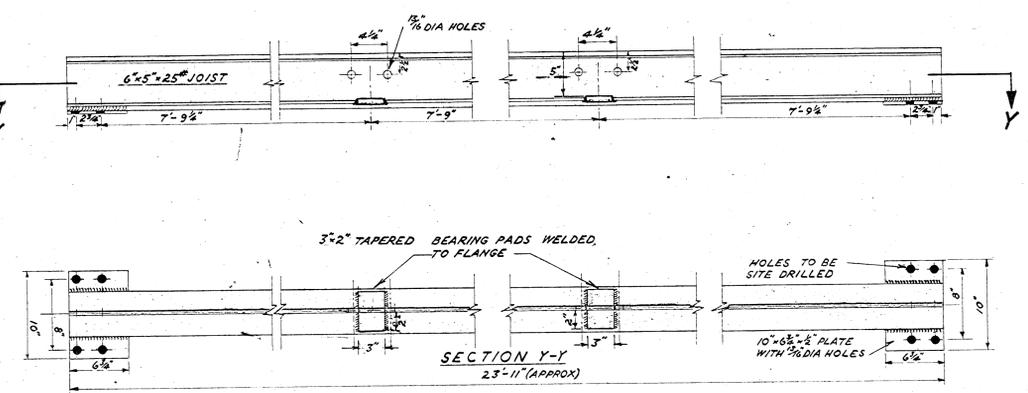
SECTION B-B CENTRE STANCHIONS (2N6 MK S2)



MAIN LONGITUDINAL BEAMS 2N6 MK.B.1



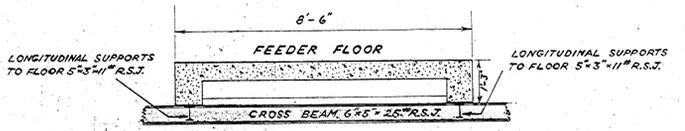
CROSS BEAMS 5N6 MK.B.2



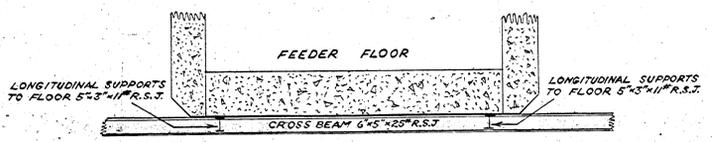
LONGITUDINAL SUPPORTS TO FLOOR 4N6 MK.B.3



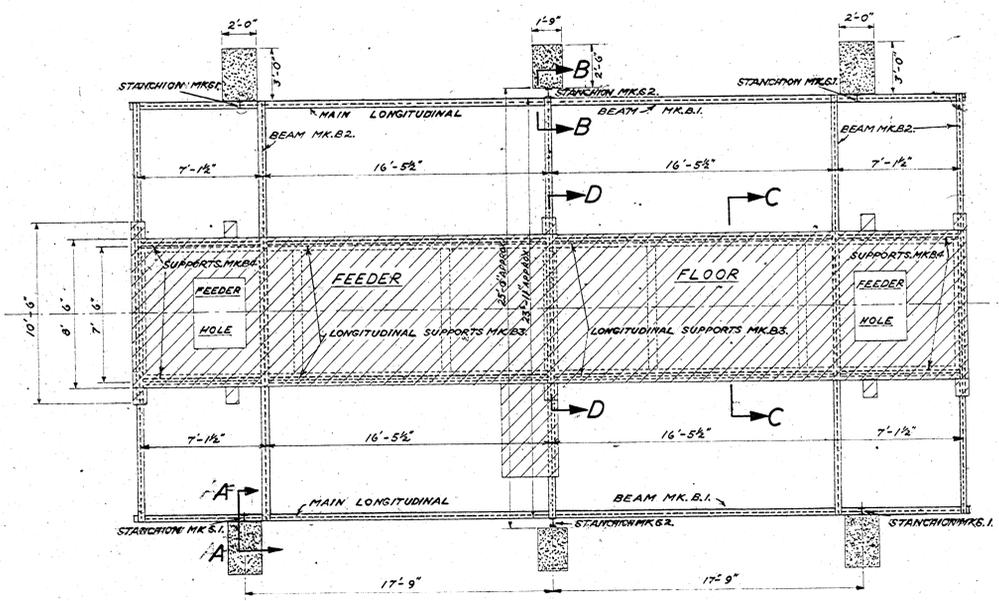
LONGITUDINAL SUPPORTS TO FLOOR 4N6 MK.B.4



SECTION C-C THRO FEEDER FLOOR



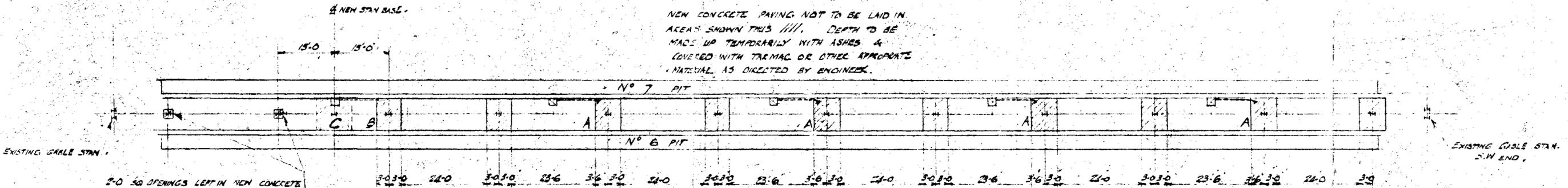
SECTION D-D THRO FEEDER FLOOR



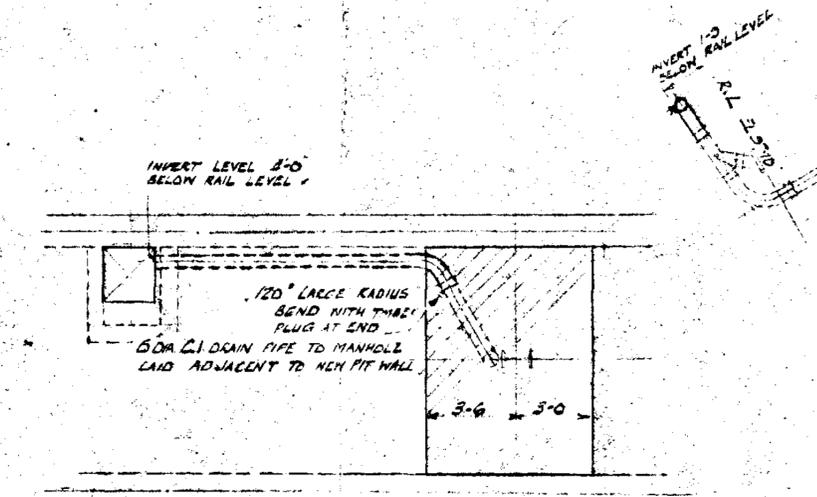
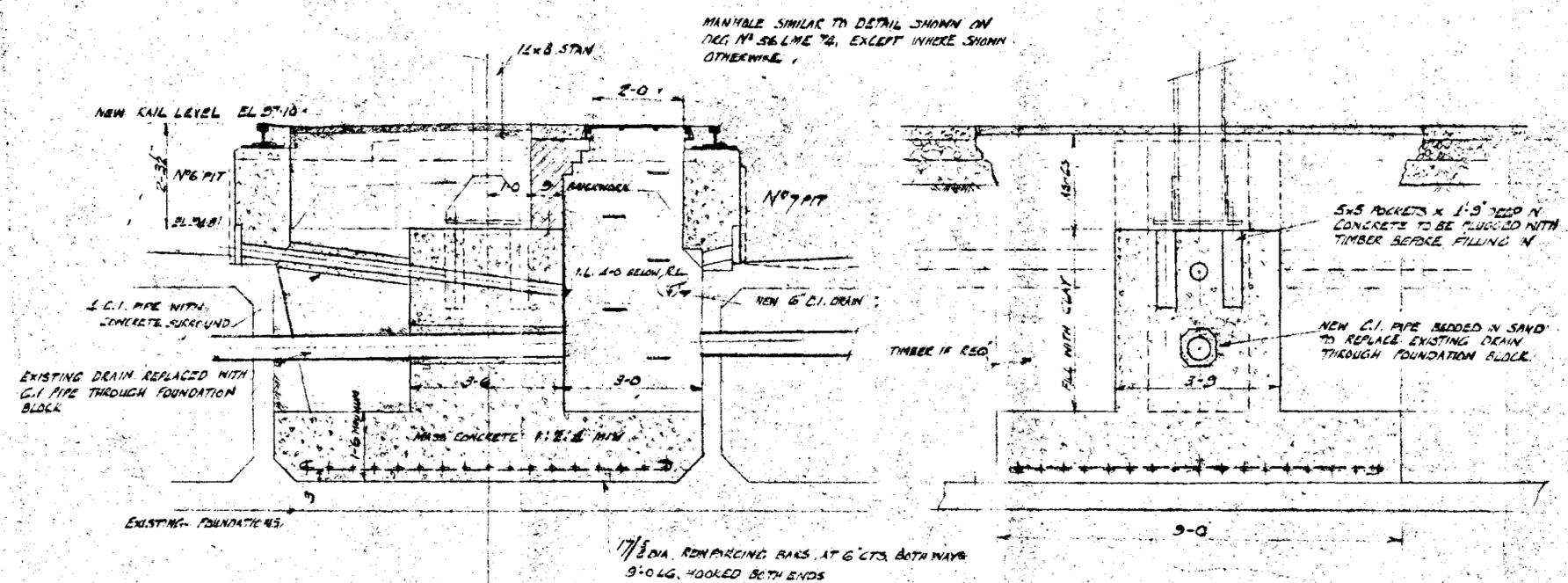
PLAN OF FEEDER FLOOR

- NOTES**
- FOR DETAILS OF CONCRETE REPAIRS TO FEEDER FLOOR AND STANCHION FOUNDATIONS SEE DRAWING N65 LME 71.
  - FOR DETAILS OF GENERAL REPAIRS TO REMAINDER OF PLANT SEE DRAWING N65 LME 13.
  - DIMENSIONS (APPROX) ARE TO BE CHECKED ON SITE BY THE CONTRACTOR.
  - ALL JOISTS ARE TO BE OF DIMENSIONS AND WEIGHT SHOWN NO LIGHTER OR ALTERNATIVE SECTION TO BE USED UNLESS AUTHORIZED BY THE ENGINEER.
  - ALL BOLT HOLES TO BE 1/8" DIAM. FOR 3/8" BOLTS.
  - HOLES SHOWN THUS DRILLED PRIOR TO ERECTION. HOLES SHOWN THUS DRILLED DURING ERECTION.
  - ALL WELDING SHOWN TO BE 3/8" FILLET WELDS TO CONFORM TO B.S. 528 UNLESS OTHERWISE NOTED.

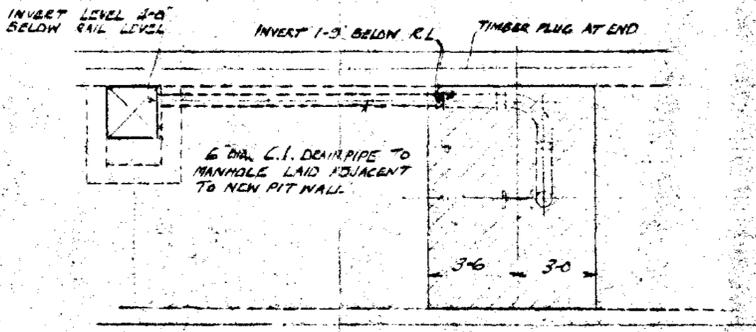
|  |  |  |                 |
|--|--|--|-----------------|
| B.T.C. BRITISH RAILWAYS<br>CHIEF CIVIL ENGINEERS DEPT. |  | EASTERN REGION<br>KING'S CROSS STATION   |                 |
| REVISED  | IMMINGHAM DOCK LOCO<br>REPAIRS TO COALING PLANT<br>DETAILS OF STEELWORK<br>SUPPORT TO FEEDER FLOOR |  |                 |
| D.E. CORRES. (C.C.E.)<br>ME 25195                      | APPROVED   | SCALE: 1/2" TO 7 FOOT / 2 1/4" TO 1 INCH |                 |
| R.J.M.G.   | ASSISTANT ENGINEER   | DESIGNED<br>No. 108                      | DATE<br>12/2/06 |
| SHEET 1 OF 4   | CHIEF CIVIL ENGINEER   | CHECKED<br>No. 58                        | LME 70          |



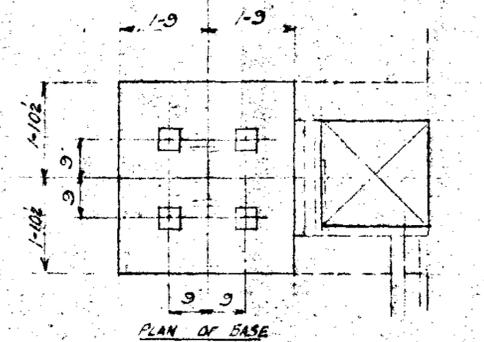
PLAN OF NO 6 & 7 PITS SHOWING AREAS NOT TO BE PAVED IN ENGINE INSPECTION PIT CONTRACT.



DETAIL A



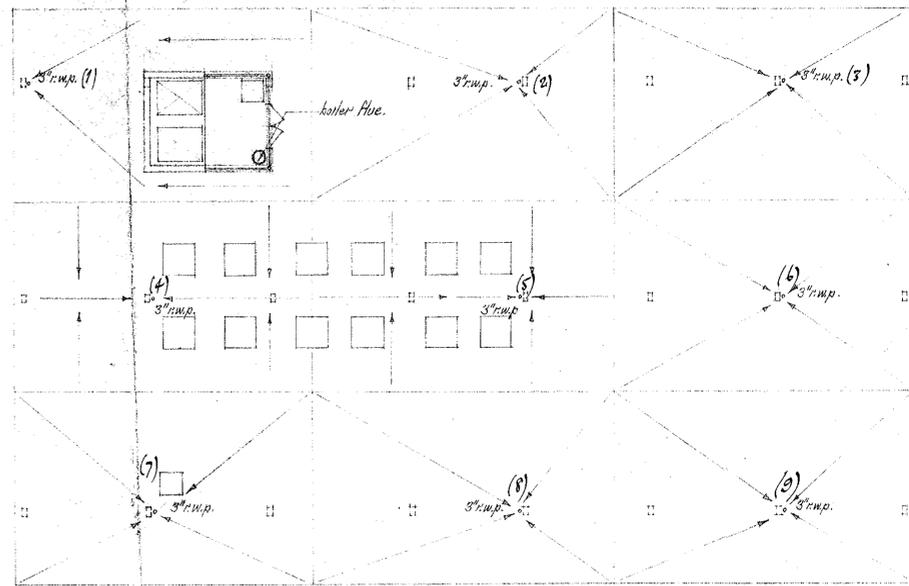
DETAILS OF C.I. DRAINS TO BE LAID DURING RECONSTRUCTION OF PITS 6 & 7



FOUNDATION FOR NEW CABLE STANCHION AT C

|  |                  |                                       |          |
|--|------------------|---------------------------------------|----------|
| B.T.C BRITS & RAILWAYS<br>CHIEF ENGINEERS DEPT   |                  | EASTERN REGION<br>KINGS CROSS STATION |          |
| REVISED  | IMMINGHAM M.P.D  |                                       |          |
| RECONSTRUCTION OF ENGINE INSPECTION PITS<br>NEW STANCHION BASE & DRAINAGE<br>REQUIRED FOR RECONSTRUCTION OF PITS |                  |                                       |          |
| DE   | CODES            | CE                                    | APPROVED |
| SCALE  | 1/4" = 1'-0"     |                                       | DEPT     |
|  | 5. LOR 272       |                                       | CE 3     |
|  | N. 26. ME. 30128 |                                       | SHEET OF |



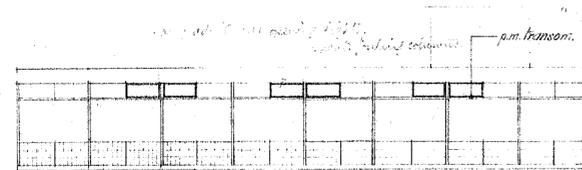


ROOF PLAN (showing roof outlets).

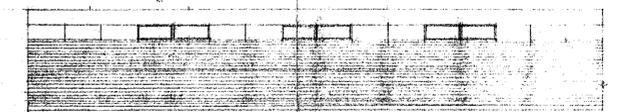


N.E. ELEVATION.

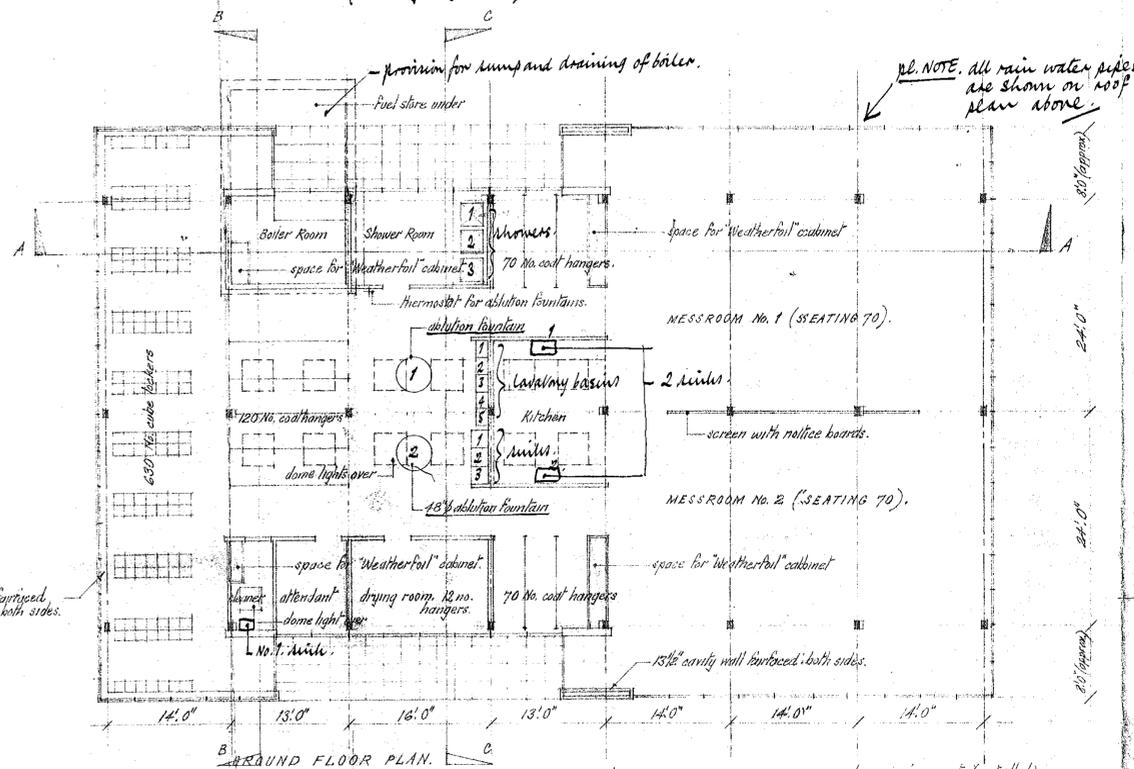
slabbed up Dutch plaquettes.



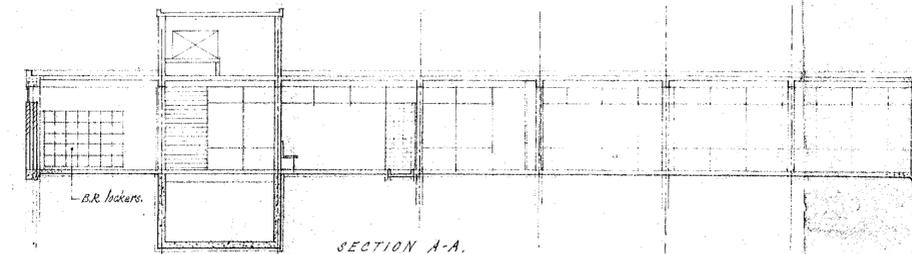
S.E. ELEVATION.



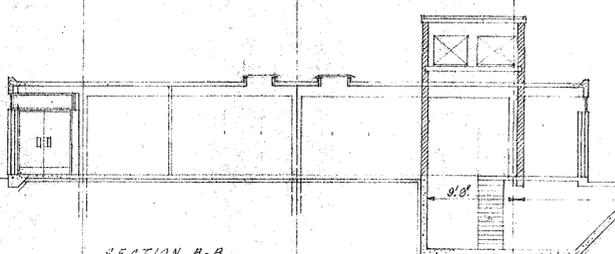
N.W. ELEVATION.



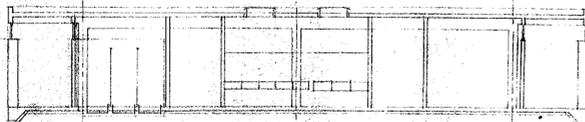
GROUND FLOOR PLAN.



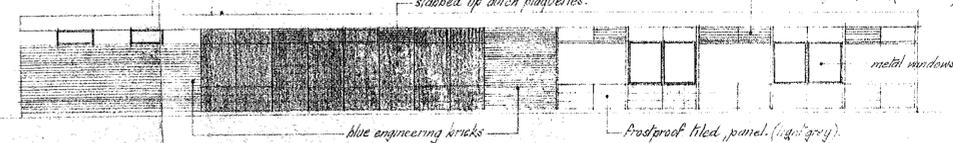
SECTION A-A.



SECTION B-B.



SECTION C-C.



S.W. ELEVATION

- 15 1/2" cavity wall surfaced both sides.

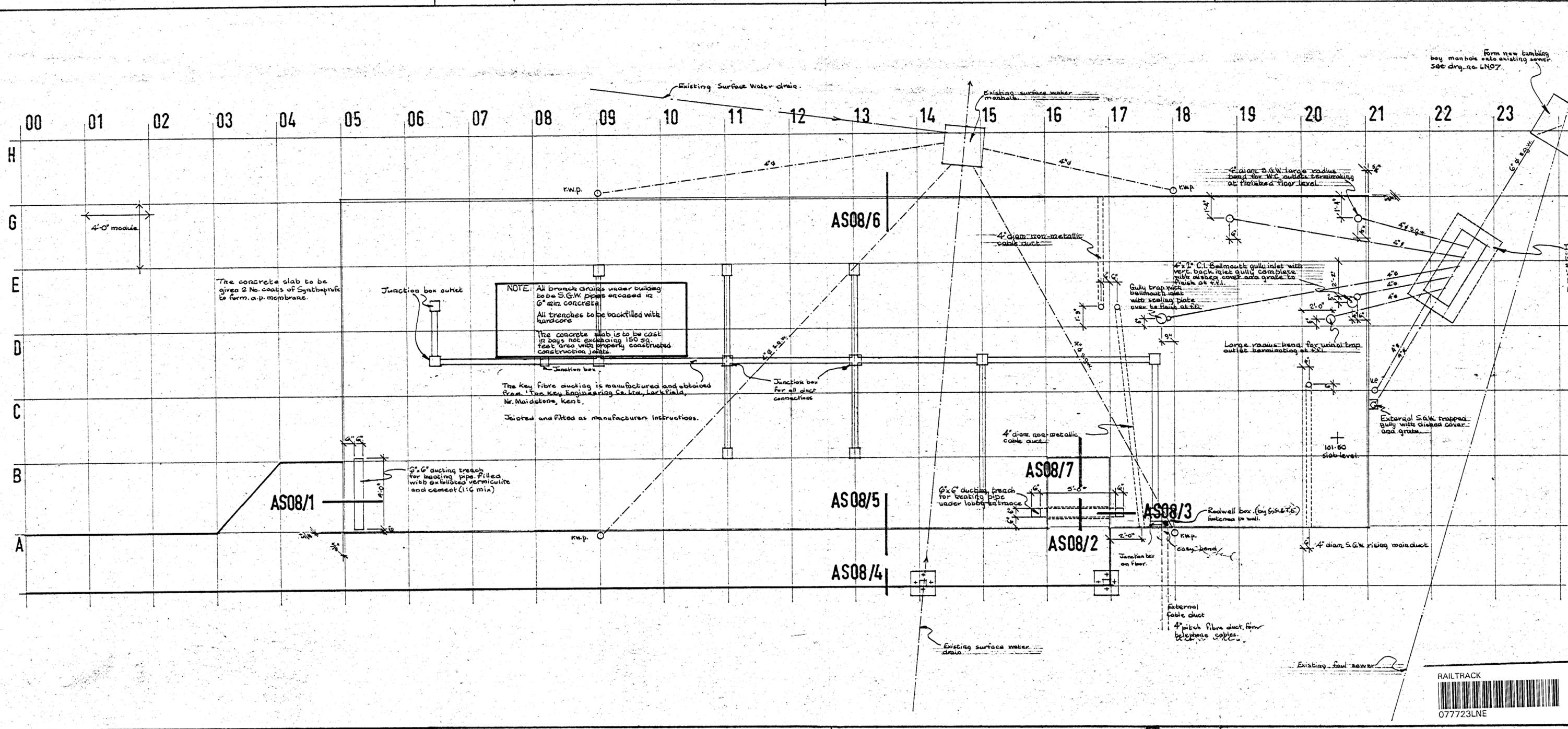
B.T.C. BRITISH RAILWAYS  
CIVIL ENGINEER'S DEPT.  
REVISED

EASTERN REGION  
KING'S CROSS STATION.

IMMINGHAM M.P.D.  
MESS ROOM & WASHING  
FACILITIES.  
REVISED WORKING PLAN (PRELIMINARY ONLY)  
FOR SPANNING  
SCALE - 8 feet to 1 inch.



5 Sinks  
3 Shower  
1 Boiler Room



The concrete slab to be given 2 No. coats of Synthaprite to form a p. membrane.

**NOTE:**  
 All branch drains under building to be S.G.W. pipes encased in 6" min. concrete.  
 All trenches to be backfilled with hardcore.  
 The concrete slab is to be cast in bays not exceeding 150 sq. feet area with properly constructed construction joints.

The Key fibre ducting is manufactured and obtained from The Key Engineering Co. Ltd., Lackfield, Nr. Maidstone, Kent.  
 Jointed and fitted as manufacturers instructions.

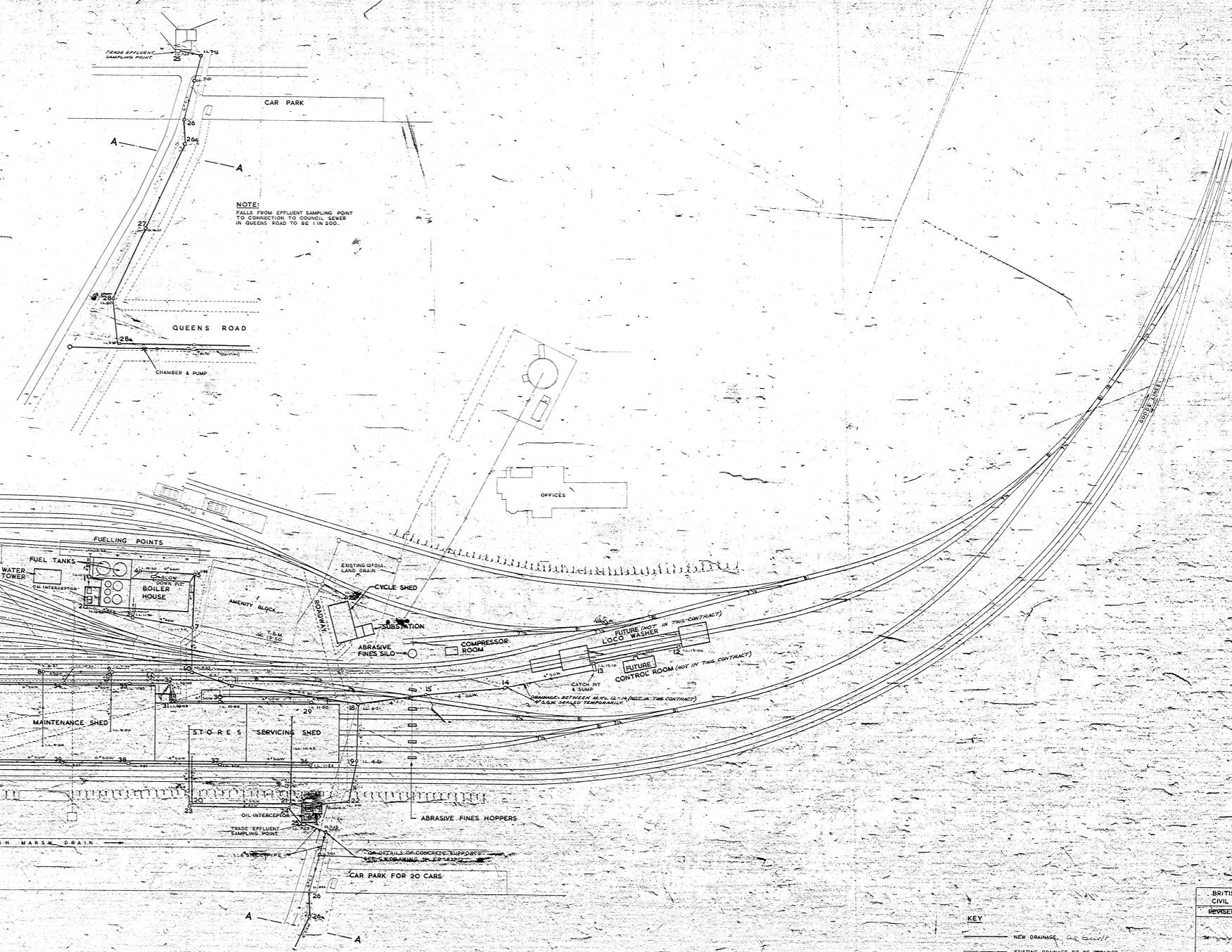
3" x 6" ducting trench for heating pipe filled with expanded vermiculite and cement (1:6 mix)

Inspection chamber 4' 6" x 1' 10 1/2" int. 10" dia. base with 2 No. 18" x 18" double seal C.I. covers and frames set into 6" reinforced conc. slab.  
 2" x 1/2" round S.G.W. channels to be laid to suitable falls and suitably benched with 1:2:4 concrete mix and finished off with a 1:1 cement and sand mortar. The S.G.W. to be manufactured with a built in neoprene gasket joint manufactured by Nailor Bros. Denby Dale, Yorks.

- Notes:
1. The connection between W.C. outlet and S.g.w. large radius bend to be made with a brass sleeve with caulked joints.
  2. The connection between L.B. copper waste and C.I. back inlet gully to be made with a brass sleeve with caulked joint and soldered joint in approved manner.

|   |   |                          |                   |
|---|---|--------------------------|-------------------|
| BRITISH RAILWAYS BOARD                                      |   | EASTERN REGION ARCHITECT |                   |
| BRITISH RAILWAYS CHIEF CIVIL ENGINEER'S DEPT.               |   |                          |                   |
| REVISED   | IMMINGHAM DIESEL DEPOT ACCOMMODATION FOR DEPOT MASTER |                          |                   |
| <b>BUILDING SUBSTRUCTURE FOUNDATIONS AND DRAINAGE: PLAN</b> |   |                          |                   |
| 568. DR. 98/2.  |   |                          |                   |
| D.E.  | CORRES.   | C.E.                     | APPROVED          |
|   |   |                          | project architect |
|   |   |                          | ARCHITECT         |
| date 14th Sept. 1967  |   | CHIEF CIVIL ENGINEER     |                   |
| RAILTRACK   |   | SCALES                   |                   |
| 077723LNE   |   | 1/4" = 1'-0"             |                   |
|   |   | Project No.              | 67YA 128          |
|   |   | Arch. No.                | LN02              |





- NOTES:
1. ALL PIPES TO BE CASED IN CONCRETE OF THICK CONCRETE TORSE 1/2" DIA.
  2. ALL FALLS ARE 1 IN 100 UNLESS OTHERWISE SPECIFIED.
  3. ALL LEVELS SHOWN ARE TO THE FINISH OF THE LEVEL OR OUTLET PIPE.
  4. ALL LEVELS REFER TO ORDNANCE DATUM, NEWLYN.
  5. ALL PIPES, PASSING UNDER TRACKS TO BE C.I. AND HAVE INVERT LEVELS 4" MIN. BELOW RAIL LEVEL.
  6. ALL EXPOSED PIPES TO HAVE FIBRE GLASS LAGGING 2" THICK, KEPT IN PLACE.
  7. FOR DETAILS OF OIL INTERCEPTION SEE DRAWING NO. 103/72/4-2.
  8. FOR DETAILS OF OIL INTERCEPTION LAYOUTS SEE ORG. DRAWING 103/72/4-2.
  9. WHERE NEW DRAINS CONNECT TO AND RECEIVE FROM EXISTING DRAINS THE NEW DRAINS TO BE AT LEAST THE DIAMETER OF THE EXISTING DRAINS.

KEY

— NEW DRAINAGE

— EXISTING DRAINAGE TO BE RETAINED

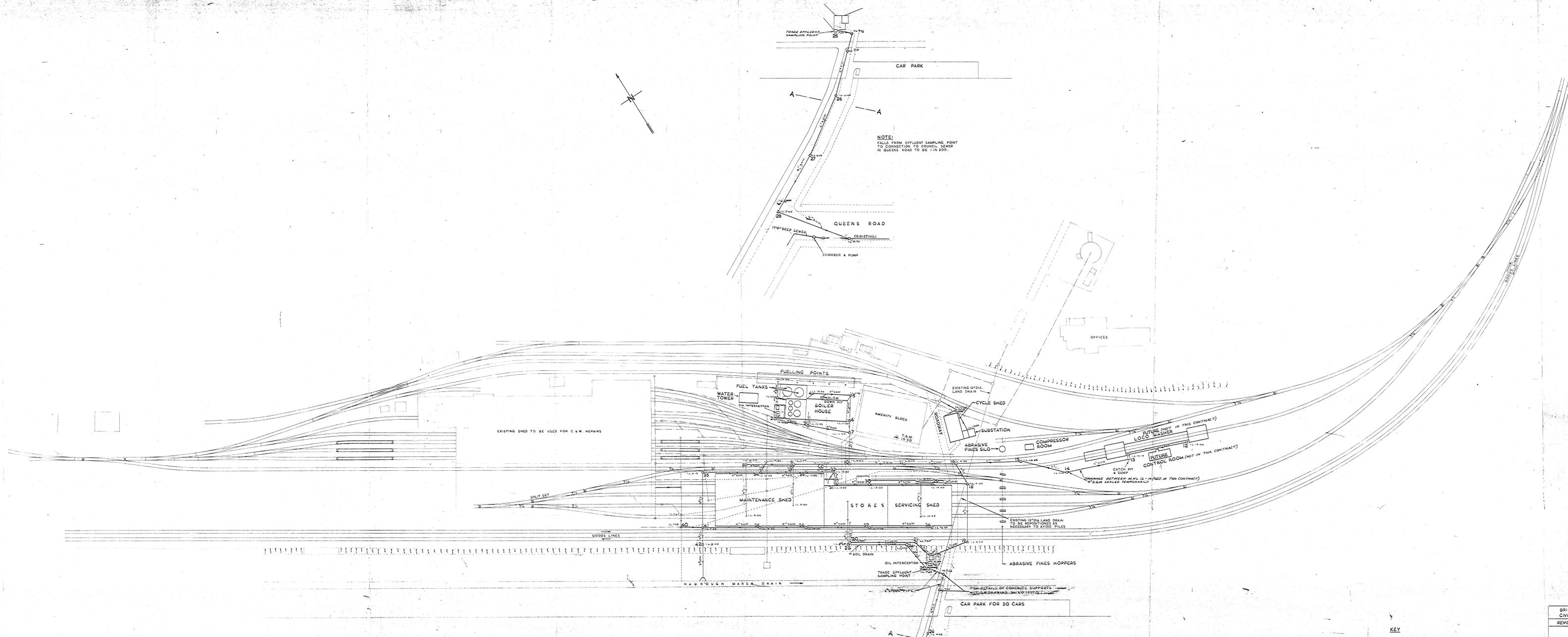
— EXISTING DRAINAGE TO BE ABANDONED



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

IMMINGHAM  
DIESEL MAINTENANCE AND  
SERVICING DEPOT  
DRAINAGE LAYOUT

|             |          |         |                   |
|-------------|----------|---------|-------------------|
| DESIGNED BY | APPROVED | DATE    | SCALE             |
| A.B.        | J.M.     | 29.4.66 | 40 FEET TO 1 INCH |
| RAHB        | J.D.     | 1.10.66 |                   |



NOTE:  
FALLS FROM EFFLUENT SAMPLING POINT  
TO CONNECTION TO GROUND SEWER  
IN QUEENS ROAD TO BE 1 IN 200.

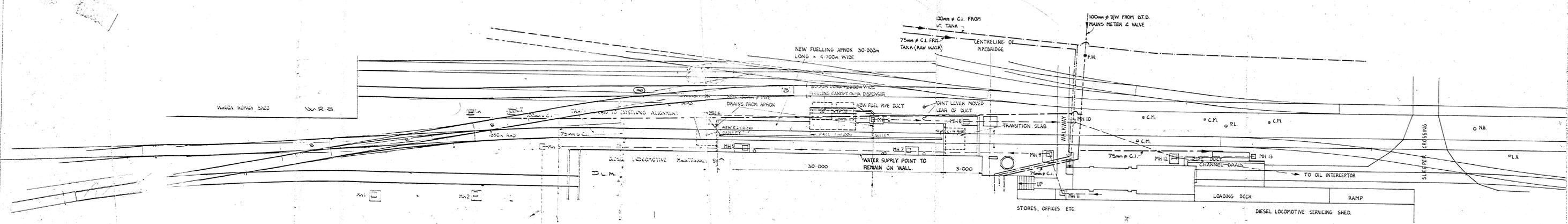
- NOTES:
1. ALL PIPES TO BE CASED IN CONCRETE 8" THICK.
  2. CONCRETE TO BE 1:2:4 (3N) MIX.
  3. ALL FALLS ARE 1 IN 100 UNLESS OTHERWISE SPECIFIED.
  4. INVERT LEVELS SHOWN THUS 12.915, AND INDICATE THE LEVEL OF OUTLET PIPE.
  5. ALL LEVELS REFER TO ORDNANCE DATUM NEWLYN.
  6. T.B.M. 15.50 ON STEP OF AMENITY BLOCK FOYER.
  7. ALL PIPES PASSING UNDER TRACKS TO BE C.I. AND HAVE INVERT LEVELS 4" 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 DRAIN 40/03/275.
  10. FOR DETAILS OF OIL INTERCEPTOR LAYOUTS SEE DRG. N.W. 150/72 & 73.
  11. WHERE NEW DRAINS CONNECT TO AND RECEIVE FROM EXISTING DRAINS THE NEW DRAINS TO BE AT LEAST THE DIAMETER OF THE EXISTING DRAINS.

3304  
D.O. Coxy  
MANAGING DESIGNER

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

|   |            |  |           |
|---|------------|--|-----------|
| BRITISH RAILWAYS BOARD<br>CIVIL ENGINEER'S DEPT.                                    |            | EASTERN REGION<br>KING'S CROSS STATION |           |
| <b>IMMINGHAM<br/>DIESEL MAINTENANCE AND<br/>SERVICING DEPOT<br/>DRAINAGE LAYOUT</b> |            |  |           |
| D.R. CORNELIUS  | C.E.       | APPROVED                               | 20. 4. 65 |
| REVISED   |            | SCALES                                 |           |
|   |            | 1/20 FEET TO 1 INCH                    |           |
| A.S.  | J.D. WILLY | C.E.                                   | 65/NW/48  |
| CHIEF CIVIL ENGINEER  |            |  |           |

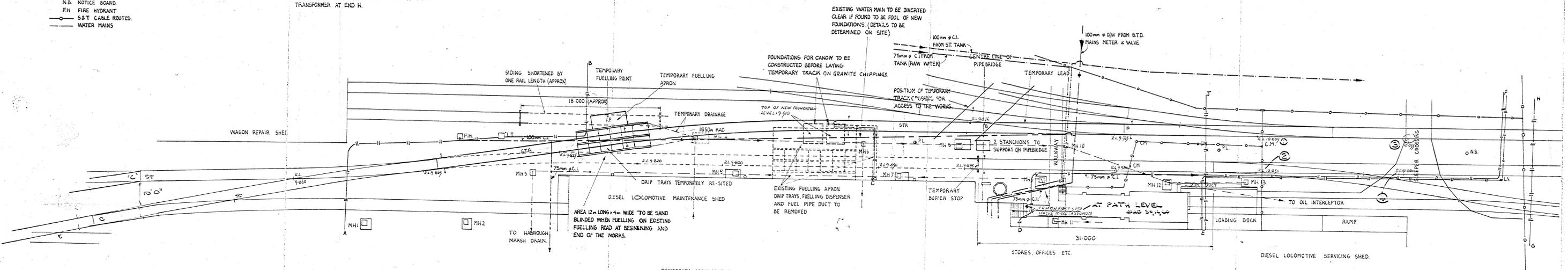




ARRANGEMENT OF NEW FUELLING APRON (EXISTING CABLE ROUTES NOT SHOWN)  
SCALE 1:200

- KEY**
- P.L. POINT LEVER
  - C.M. S & T CABLE MARKER
  - L.T. LIGHTING TOWER
  - D.P. DOWNPIPE
  - M.H. MANHOLE
  - F.P. FUELLING POINT
  - L.V. LOW VOLTAGE CABLE MARKER
  - N.B. NOTICE BOARD
  - F.H. FIRE HYDRANT
  - S & T CABLE ROUTES
  - WATER MAINS

- KEY TO ELECTRIC CABLES**
- CABLES**
- A-B UNDERGROUND CABLE ROUTE TO LIGHTING TOWER
  - C FUELLING EQUIPMENT CONTROL CABLE LAID IN PIPE DUCT
  - D-E UNDERGROUND CABLES BETWEEN SWITCH ROOM AT END F & SWITCH BOARDS, D.S.E. IN DIESEL LOCO SERVICING SHED.
  - E-J CONTROL CABLES TO DISPENSER PUMPS IN BOILER HOUSE
  - G-H Y.E.B. HIGH VOLTAGE UNDERGROUND CABLE TO THEIR TRANSFORMER AT END H.



TEMPORARY ARRANGEMENTS TO CARRY OUT CONSTRUCTION OF NEW APRON.  
SCALE 1:200

- NOTES**
1. POSITION OF SERVICES SHOWN ARE ONLY APPROXIMATE. ACTUAL POSITIONS MUST BE VERIFIED ON SITE BEFORE OR DURING EXCAVATIONS.
  2. ALL SERVICES TO BE UPHELD IN EXISTING LOCATIONS UNLESS STATED OTHERWISE ON THE DRAWINGS.
  3. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWINGS NOS 79-YWC-99, 100 & 101.

OFFICE COPY  
RAILTRACK  
078074LINE

| Letter | Date   | Description of revisions | By     |
|--------|--------|--------------------------|--------|
| A      | 8/1/50 | FOUNDATIONS REVISED      | 8/1/50 |

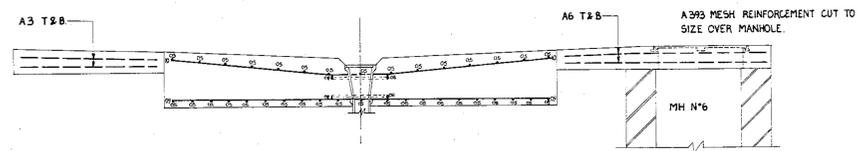
**British Railways Board**  
Chief Civil Engineer  
British Rail Eastern  
Hudson House  
York YO1 1HP  
Telephone 0904-53022

G.T. G.T.  
A.S. T.V. WORKS ENGINEER  
Chief Civil Engineer

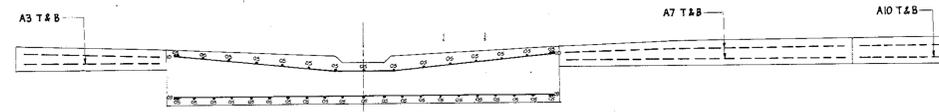
**IMMINGHAM**  
**Traction Maintenance Depot**  
**NEW FUEL OIL DISPENSING APRON**  
LAYOUT PLANS SHOWING NEW & TEMPORARY EXISTING APRONS

Scale 1:200  
File CE.W38/PO/3/1  
Drawing Number 79-YWC-III / 3 A

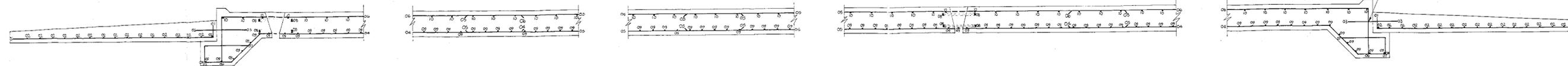




SECTION C-C  
SCALE 1:20

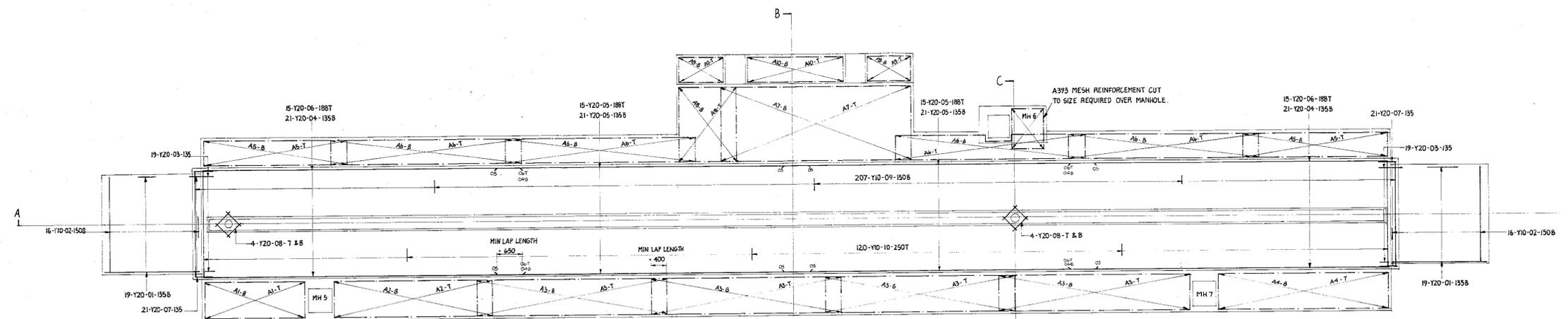


SECTION B-B  
SCALE 1:20



SECTION A-A  
SCALE 1:20

300mm OF MARK O3 BARS (LENGTH IN MAIN SLAB)  
TO BE TREATED WITH A SUITABLE DE-BONDING  
AGENT CONFORMING TO BS SPECIFICATION 2605  
ON TRANSITION SLAB END.



PLAN  
SCALE 1:50

- NOTES**
1. CONCRETE TO BE GRADE 25-20-393 IN ACCORDANCE WITH CP110 PART 1 1972 TABLE 50.
  2. ALL CONCRETE TO HAVE A TAMPED BOARD FINISH EXCEPT THE CENTRAL DRAINAGE CHANNEL WHICH IS TO BE FLOAT FINISHED.
  3. REINFORCING BARS SHALL BE HOT ROLLED HIGH YIELD BARS TO S.S. 4449 1969. REINFORCING MESH TO S.S. 4483 1969.
  4. MINIMUM COVER TO REINFORCEMENT TO BE 50mm.
  5. POLYSULPHIDE SEALANT TO BE 'CALKITE' BY SELCRETE LTD. 'POLEVOPOUR' QUALITY POLEVOMASTIC BY EVODE LTD OR OTHER SIMILAR APPROVED PRODUCT AND IS TO BE POURED INTO CHASES FORMED IN THE SLAB.
  6. THIS DRAWING TO BE READ IN CONJUNCTION WITH DRAWING NUMBERS 79 YWC 40, 99 & 100.
  7. FOR REINFORCEMENT SCHEDULES SEE DRG. NO'S 79 YWC 102 & 103.
  8. MESH REINFORCEMENT TO BE CUT TO SIZE REQUIRED AROUND MANHOLE N° 6.
  9. MIN LAP LENGTH TO REINFORCING BARS TO BE 650mm. MIN LAP LENGTH TO REINFORCING MESH TO BE 400mm.

RAILTRACK  
079229LNE

| Letter | Date | Description of revisions | By |
|--------|------|--------------------------|----|
|        |      |                          |    |

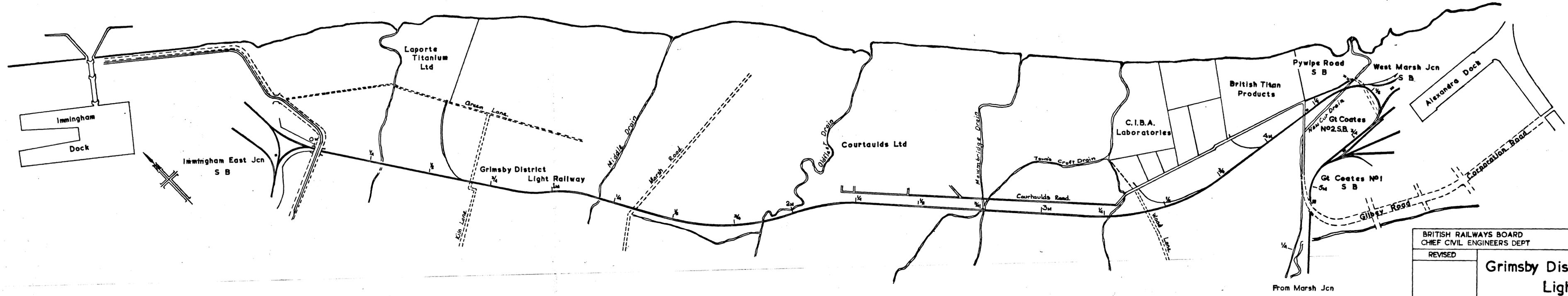
**British Railways Board**  
Chief Civil Engineer  
British Rail Eastern  
Hudson House  
York YO1 1HP Telephone 0904-53022

G.T. G.T. WORKS ENGINEER  
1-4  
2-4-78  
3-4-78  
Chief Civil Engineer

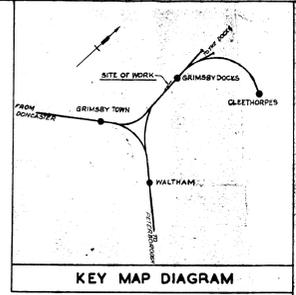
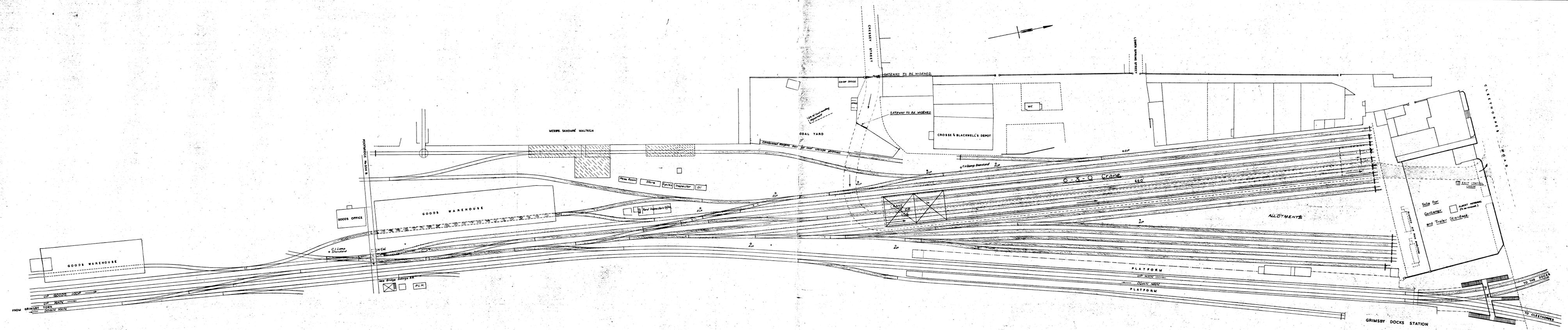
**IMMINGHAM**  
Traction Maintenance Depot  
NEW FUEL OIL DISPENSING APRON  
REINFORCING DETAILS

Scale 1:50 & 1:20  
File Numbers CEW38750/31/1  
Drawing Number 79-YWC-101/2

R i v e r                      H u m b e r



|  |        |   |  |
|--|--------|---|--|
| BRITISH RAILWAYS BOARD<br>CHIEF CIVIL ENGINEERS DEPT |        | EASTERN REGION<br>DONCASTER DIVISION      |  |
| REVISED  |        | <b>Grimsby District<br/>Light Railway</b> |  |
| DCE  | CORRES |   |  |
|  |        |   |  |
|  |        | SCALES<br>6" to 1 mile                    |  |
|  |        | DE S NO 66 DRPW 207                       |  |



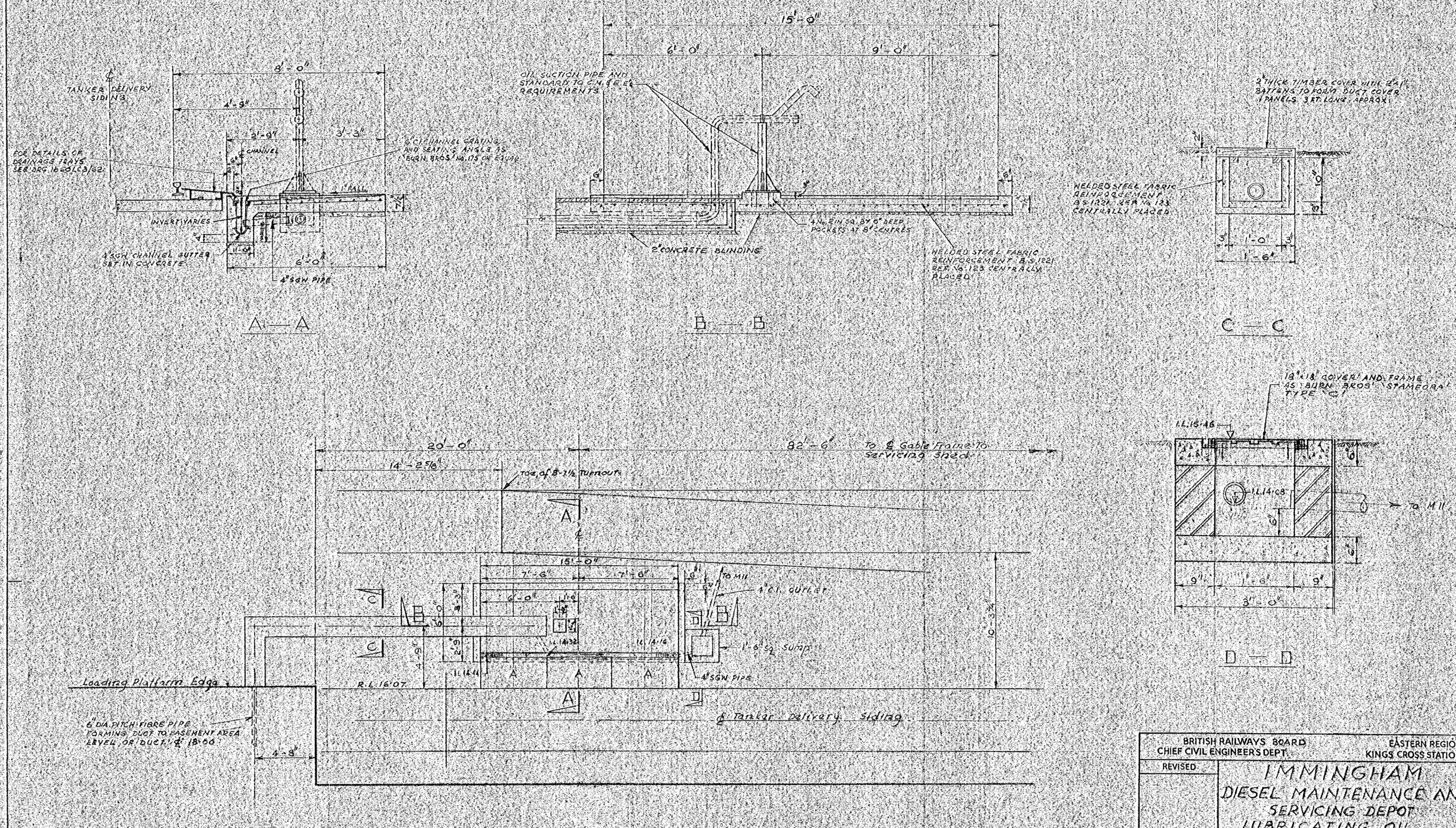
**DRAFT PLAN**

26 JUL 1956

*Do. Please refer to the Plan (in Cases DP 38/1059)*

|                              |          |   |            |
|------------------------------|----------|---|------------|
| BRITISH RAILWAYS BOARD       |          | EASTERN REGION                          |            |
| CHIEF CIVIL ENGINEER'S DEPT. |          | KING'S CROSS STATION                    |            |
| REVISED                      |          | DEVELOPMENT OF LARGE CONTAINER SERVICES |            |
| <b>GRIMSBY TERMINAL</b>      |          |   |            |
| D.E. CORRES. C.E.            | APPROVED | SCALE:                                  | 1 1/2 INCH |
| N.W./21                      |          | 33 FT. TO 1 INCH                        |            |
| F.B.                         |          | DE. No.                                 | 66-DR-384  |
| SHEET OF                     |          | CCE. No.                                | 66.N.W.133 |

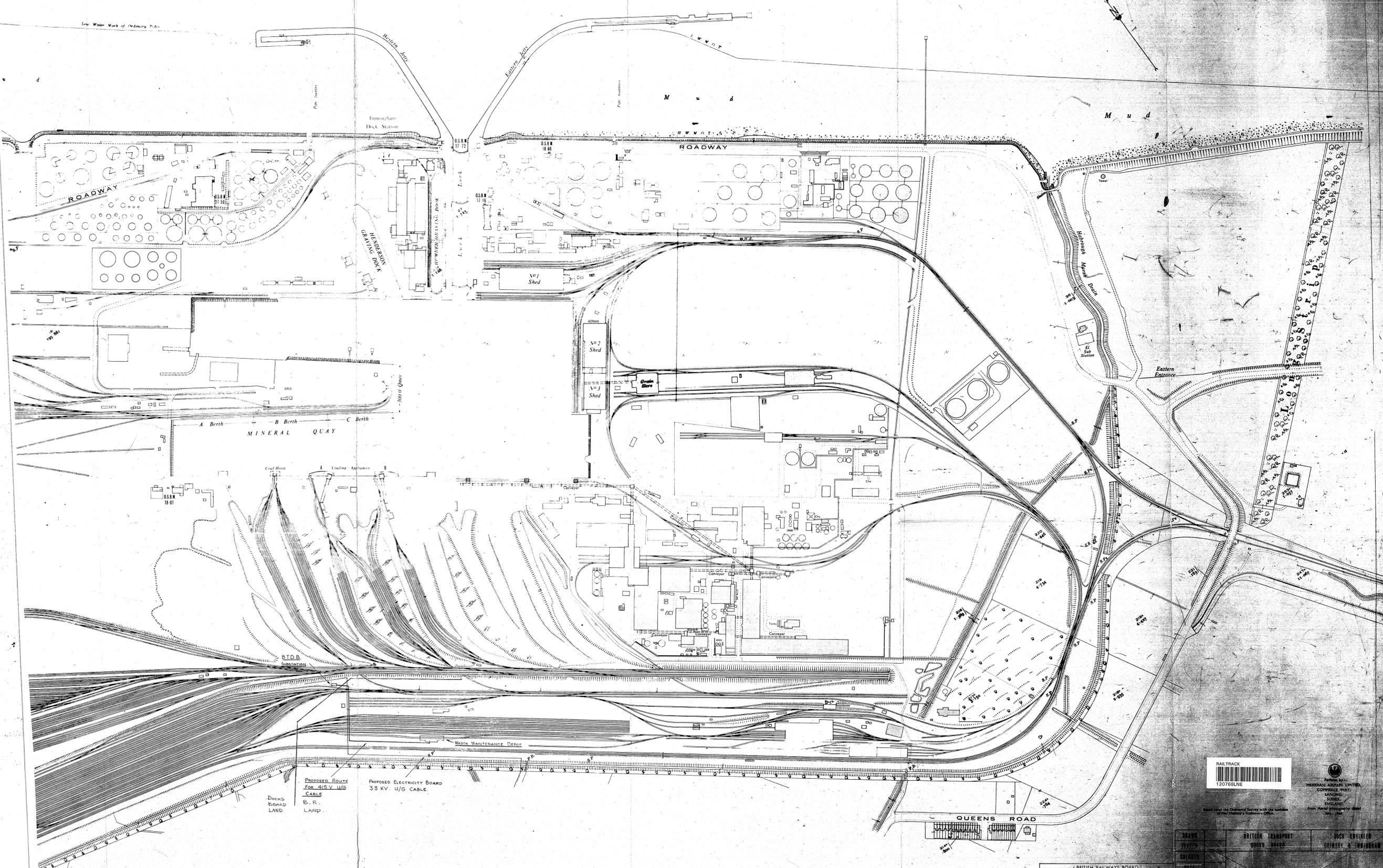




PLAN

|  |  |                                       |           |
|--|--|---------------------------------------|-----------|
| BRITISH RAILWAYS BOARD<br>CHIEF CIVIL ENGINEER'S DEPT. |  | EASTERN REGION<br>KINGS CROSS STATION |           |
| REVISED  | IMMINGHAM<br>DIESEL MAINTENANCE AND<br>SERVICING DEPOT<br>LUBRICATING OIL<br>OFF-LOADING POINT |                                       |           |
| D.E. CORRES  | CCE  | APPROVED                              | 4.10.65   |
| NW 27868   | N.J.N.   | SCALES 1/4" = 1'-0" & 1/2" = 1'-0"    |           |
| A.I.   | J.D. WEST  | ACE MOD.                              | 66 DRAW 9 |
| M.L.   |  | CCE'S                                 | 65NW/307  |
| SHEET OF   | CHIEF CIVIL ENGINEER   | No.                                   |           |





PROPOSED ROUTE FOR 415 V. U/G CABLE  
 B. R. LAMP

PROPOSED ELECTRICITY BOARD 33 KV. U/G CABLE

Scale 1:2500  
 FEET 0 100 200 300 400 500



Printed by  
 HESMAN JAMES LITTLE,  
 COMMERCIAL WAY,  
 LONDON,  
 ENGLAND.

BRITISH RAILWAYS BOARD  
 CHIEF MECHANICAL & ELECTRICAL ENGINEER  
 EASTERN REGION  
 OUTDOOR MACHINERY SECTION  
 YORK

IMMINGHAM - PROPOSED ELECTRICITY  
 SUPPLY CABLE ROUTE FOR IRON ORE  
 WAGON MAINTENANCE DEPOT

SCALE 1:2500  
 DRA. NO. IM/P/4/9  
 DRAWN BY: [ ]  
 CHECKED BY: [ ]

|                   |                     |
|-------------------|---------------------|
| BRITISH TRANSPORT | DOCK ENGINEER       |
| WORKS BOARD       | GRIMSBY & IMMINGHAM |
| DESIGNED          |                     |
| DRAWN             |                     |
| CHECKED           |                     |
| DATE              |                     |