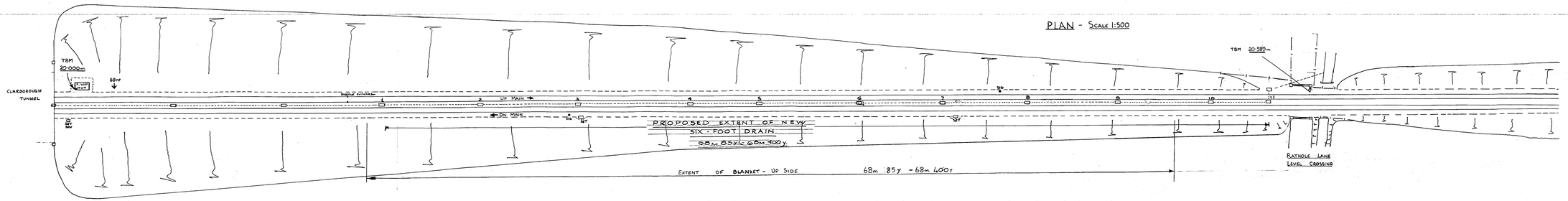
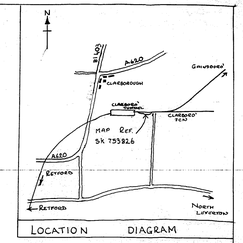
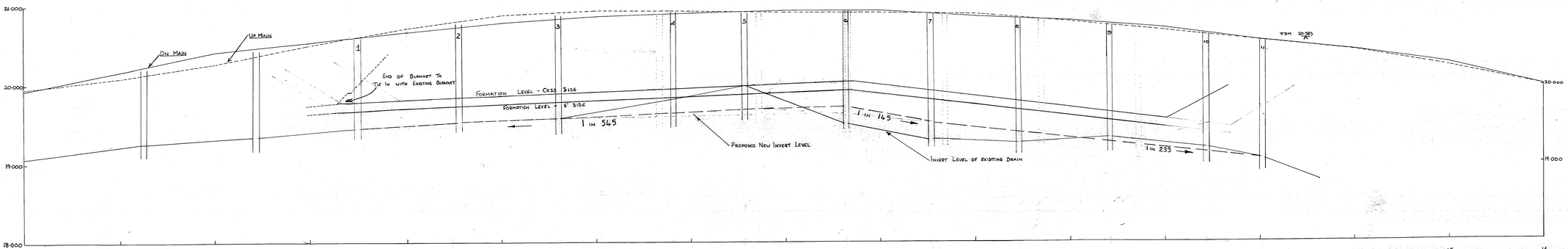


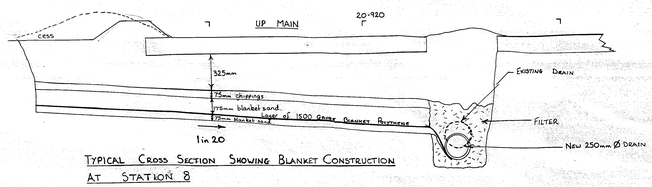




LONGITUDINAL SECTION

HORIZONTAL SCALE: 1:500
VERTICAL SCALE: 1:20

STN No.	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
UP 6' R.L.	19·967	20·082	20·270	20·510	20·723	20·883	20·945	20·960	20·920	20·919	20·901	20·805	20·695	20·575	20·457	20·222	20·037
DN 6' R.L.	19·935	20·165	20·420	20·550	20·675	20·783	20·875	20·915	20·960	20·945	20·875	20·822	20·725	20·575	20·467	20·280	20·072
PROPOSED INVERT OF DRAIN AT CATCHPITS		As Existing				19·520	19·580	19·630	19·680	19·740	19·510	19·400	19·270	19·142	19·069		



TYPICAL CROSS SECTION SHOWING BLANKET CONSTRUCTION AT STATION 8

General Notes:-

1. Existing pitch-fibre drain to be renewed using 250mm I.D. 'Armco' Pipe.
2. Existing catchpits to be carefully dismantled and any serviceable units re-used.
3. Location of 'new' catchpits to be as existing.

N.B. No blanketing work is included in the Contract.

Letter	Date	Description of revisions	By

British Railways Board
Divisional Civil Engineer
British Rail Eastern
Gresley House
Station Court
Doncaster, South Yorks. DN1 1PB. Telephone 0302 4031

P.D.M. R.C.

FEB 81 — W.P. CUNNINGHAM, Divisional Civil Engineer

CLARBOROUGH

BLANKET AND DRAIN

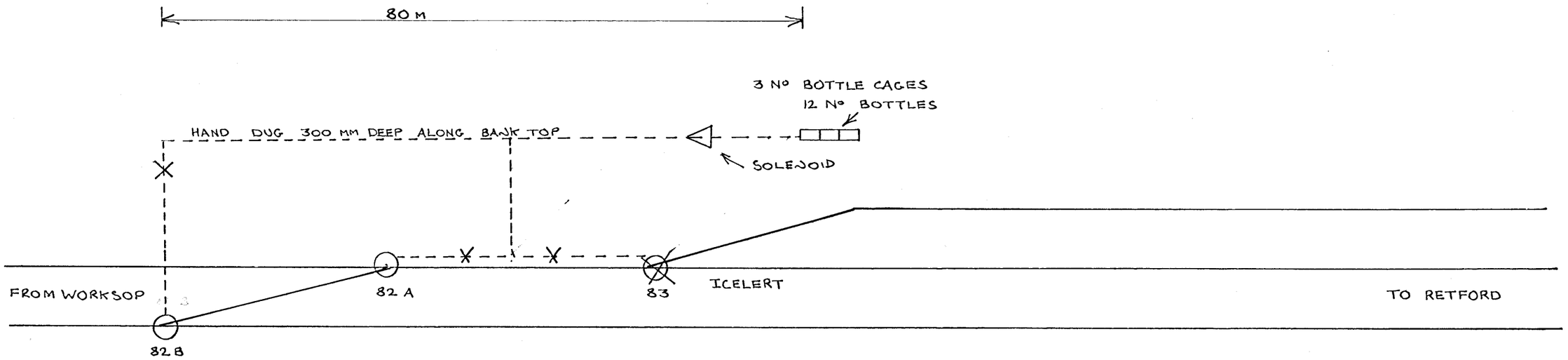
UP SIDE 68m.85y. - 68m.400y.

ITEM No. 20289

Scale	VARIOUS
File Numbers	DP20/1980/EWS
Drawing Number	81 DR 26

RAILTRACK 076693LNE

MT 49032 A



NOTES :-

EXISTING SWITCH HEATER FITTED TO POINTS 83 IS A 10 BURNER
INSTALL A 10 BURNER CHANGED OVER FROM THE BELMONT SYSTEM.
ALL PIPEWORK 12 MM (½") DIA

RAILTRACK
076748LNE

BRITISH RAILWAYS BOARD
CIVIL ENGINEER'S DEPT.

EASTERN REGION
DIVISIONAL

REVISED

RETFORD DIVE UNDER (63 M 29 C) (A)

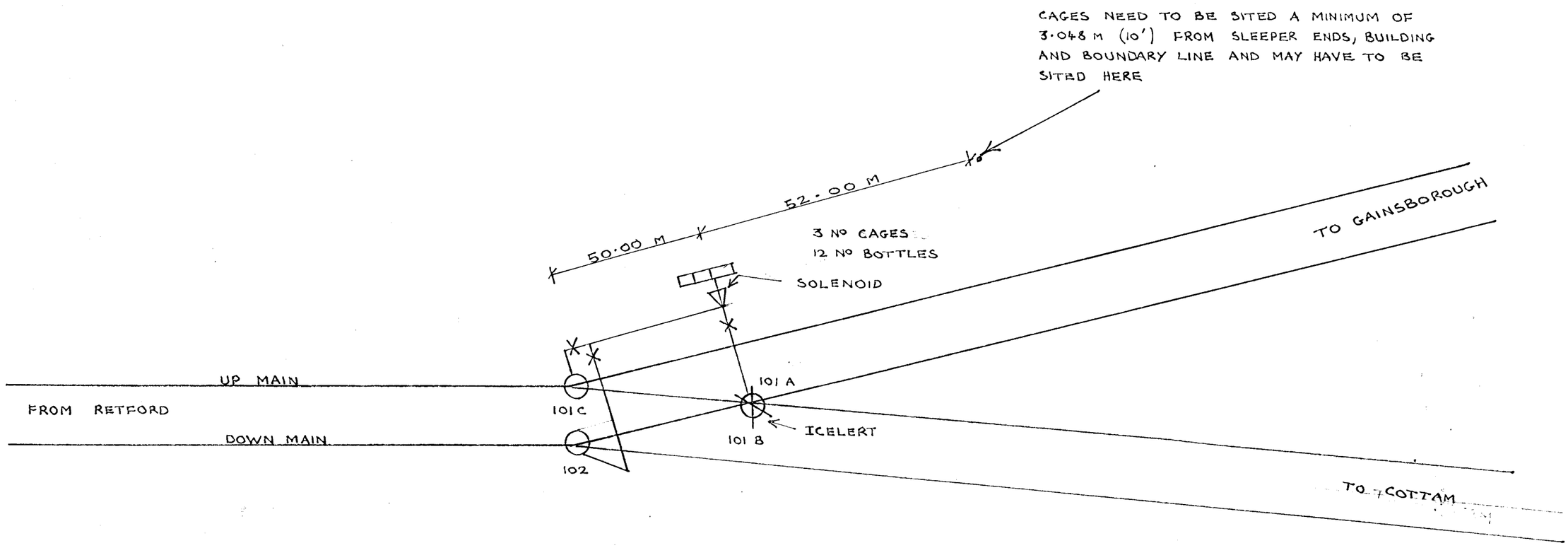
INSTALLATION OF SWITCH HEATERS
(431000/14142)

D.E.	CORRES.	C.E.	APPROVED		SCALES	N.T.S.
DP16/381						
C.E.S			DONCASTER DIVISIONAL ENGINEER		D.E's. No.	78 DR 38
					C.E's. No.	
SHEET OF			CIVIL ENGINEER			

U.D.O.

BR 906/53

121



NOTE :-

ALL PIPEWORK TO BE HAND DUG, TRENCHED OR SURFACE DUCTED.
ALL PIPEWORK 12 mm (1/2") DIA

RAILTRACK
076750LNE

BRITISH RAILWAYS BOARD
CIVIL ENGINEER'S DEPT.

EASTERN REGION
DIVISIONAL

REVISED

CLARBOROUGH JUNCTION

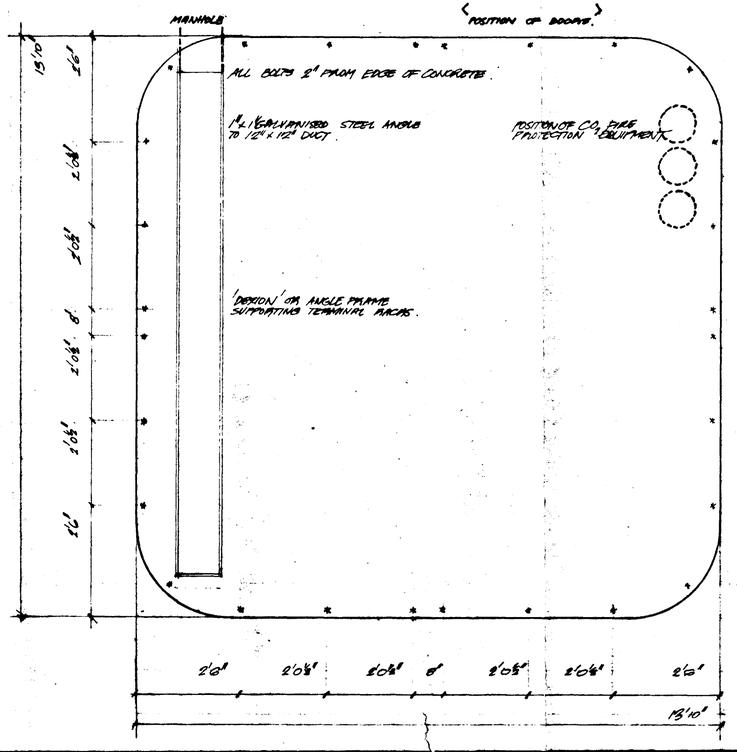
INSTALLATION OF SWITCH HEATERS

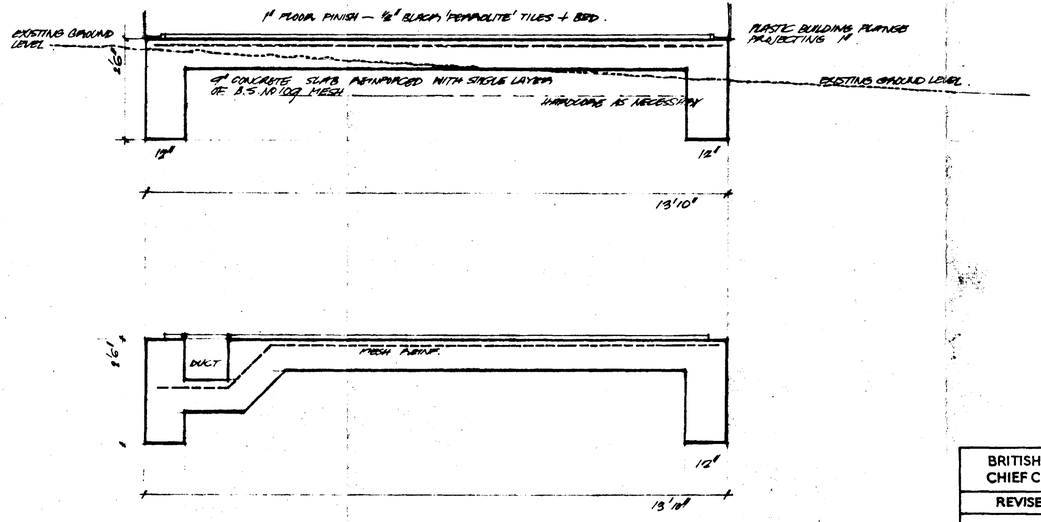
(431000/14142)

D.E.	CORRES.	C.E.	APPROVED	SCALES N.T.S.
DP16/374				
C.E.S			DONCASTER DIVISIONAL ENGINEER	D.E's. No. 78 DR 34
SHEET OF			CIVIL ENGINEER	C.E's. No.

U.D.O.

114

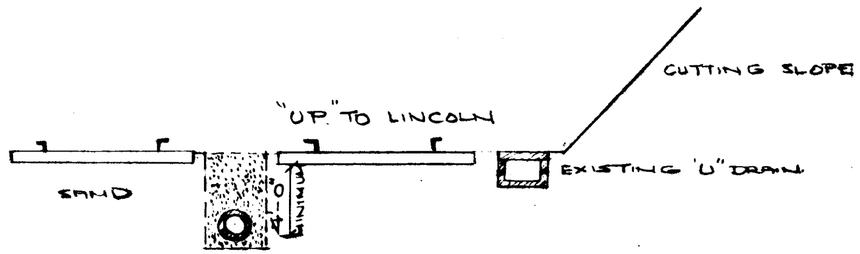




RAILTRACK
076763LNE

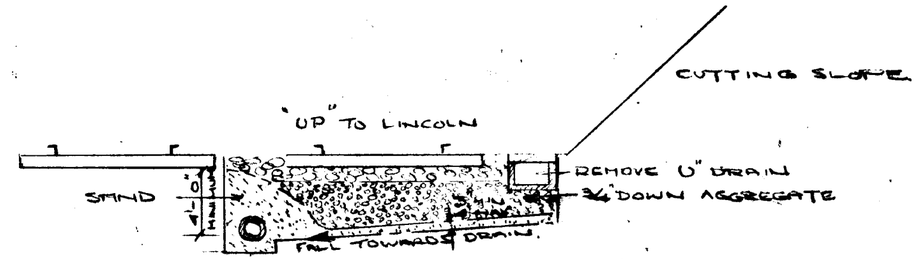
BRITISH RAILWAYS BOARD CHIEF CIVIL ENGINEER'S DEPT.				EASTERN REGION KINGS CROSS STATION
REVISED	OUTTAM POWER STATION CLAPHAM JUNCTION RELAY ROOM FOUNDATION DETAILS			
D.E. / CORRES / CCE	APPROVED	3 MAY 1967	SCALES 1 : 24.	
B.A.S.	S. HARDY ARCHITECT		67 DR 127	
SHEET OF	CHIEF CIVIL ENGINEER		CCE's No	67 AM. 1999 · 2

B.R. 1667.3



STAGE ONE

a) CONSTRUCT "SIX FOOT" DRAIN. MINIMUM. DEPTH X FT* BELOW SLEEPER BOTTOM.
b) LAY PERFORATED PIPES.
c) BACKFILL WITH SAND
d) ALLOW FOUR WEEKS TO DRAIN FORMATION.



STAGE TWO

a) REMOVE CESS DRAIN.
b) EXCAVATE OUT SOFT MATERIAL (ie FAILED BLANKET, AND WET MARL) AND PROVIDE CROSS FALL TO DRAIN.
c) LAY SAND BLANKET. THICKNESS 3" MIN
4" MAX.
d) BACKFILL WITH ¾" DOWN AGGREGATE, AND PROVIDE ADEQUATED DEPTH OF BALLAST.

NOTE. PROVIDE DRAINAGE SUMPS IN WET AREAS.

TYPICAL SECTION SHOWING BLANKETING SCHEME IN AREA OF SPRINGS

RAILTRACK
096610LNE

* DEPTH OF DRAIN BELOW SLEEPER BOTTOM.

67M. 78½CH TO 68M. 8CH.	3'-0" B.S.B.
68M 8CH TO 68M 19CH.	4'-0" B.S.B.
66M 64CH -	3'-0" B.S.B
66M 71CH	3'-0" B.S.B
67M 68½CH	3'-0" B.S.B.

NOTE. THE SAME PROCEDURE CAN BE USED IF A DEEP CESS DRAIN IS TO BE CONSTRUCTED

Letter	Date	Description of revisions	By

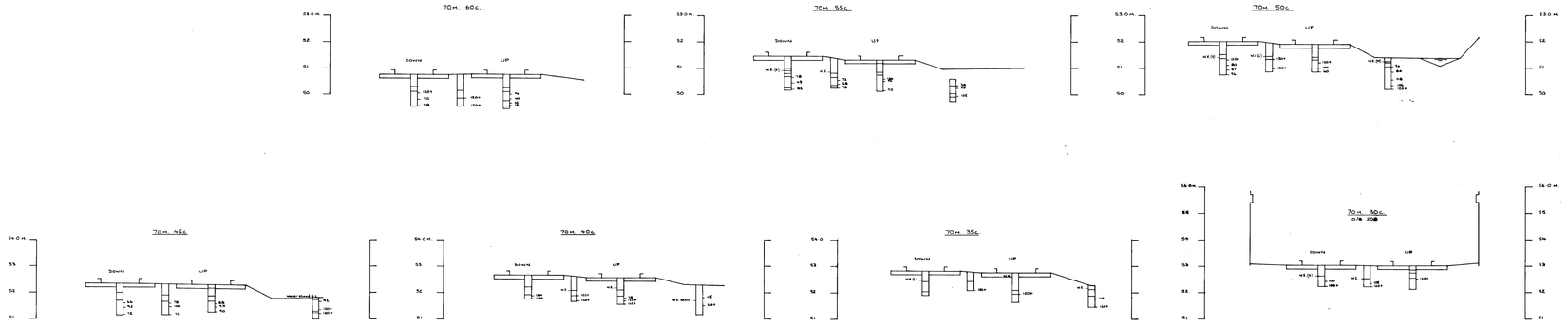
British Railways Board

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

Chief Civil Engineer

RETFORD TO CLARBOUGH JUNCTION
FORMATION INVESTIGATION
BLANKETING SCHEME FOR EXCESSIVE PORE WATER PRESSURE UNDER FORMATION

Scale	
File Numbers	
Drawing Number	71-YP-7092



NOTES

WE 6.27(8) — Water entered (Large)(Medium)(Small)

L 10 — Inclin. mine reading 'C' mine. Expressed in inches

All levels relate to a T.B.M. situated on a concrete base of a Battery Box, south west corner, situated in the Down Cess at approx. 70M. 65L. value 50.0M.

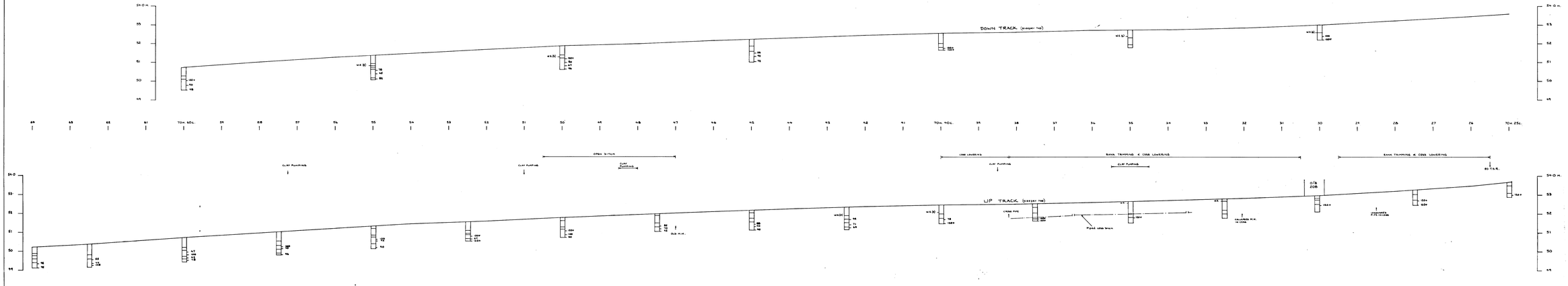
The cross sections and Longitudinal sections are as levelled on the 14th. October 1981

KEY

- BALLAST
- ASH BALLAST
- BALLAST AND SLURRY
- SAND
- SAND AND GRAVEL
- BROWN SANDY SILTY CLAY
- RED MARL WITH GREEN MARL PIECES

LONGITUDINAL SECTIONS OF UP AND DOWN TRACKS

SCALE: 1 50 VERT. 1500 HORIZ.



RAIL TRACK

01/01/4/78

Letter	Date	Description of revisions	By

British Railways Board

Chief Civil Engineer
Eastern Region
Hudson House
York YO1 1HT — Telephone 0904-53022

D.E.S.	D.C.E.		

R.A. Hawkins Chief Civil Engineer

Chief Civil Engineer

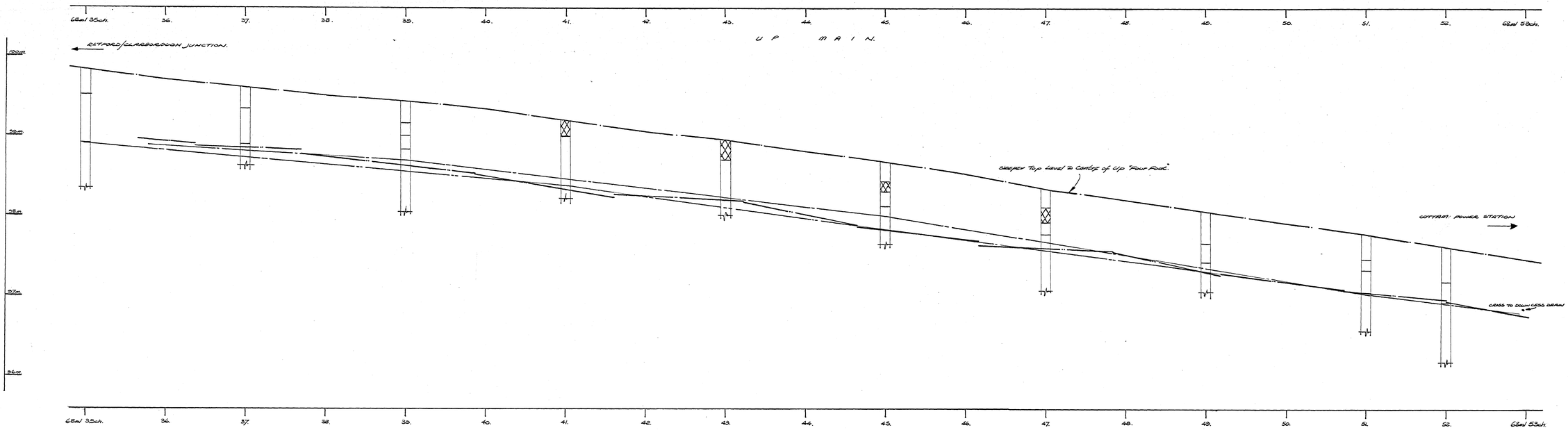
CLARBOROUGH JCT. TO WRAWBY JCT.

STURTON 70M 25L. to 70M. 40L.

FORMATION INVESTIGATION

Scale	1 : 50 unless stated
For Orders	CE SM.48/81/40
Drawing Number	B1 - YSM - 54

A1 SHEET



BALLAST.
MARL PUMPING.
COAL FINES/BALLAST.
ASH.
SAND & GRAVEL.
SAND.
RED/GREEN MARL.
Proposed Cg Level.
Proposed Invert of New Six Foot Drain.
Existing Cess Drains.

All levels relate to a TBM on the bottom step of the steps up to the SET relay room and has a value of 100.000m.

RAILTRACK
097900LNE

Letter	Date	Description of revisions	By

British Railways Board

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

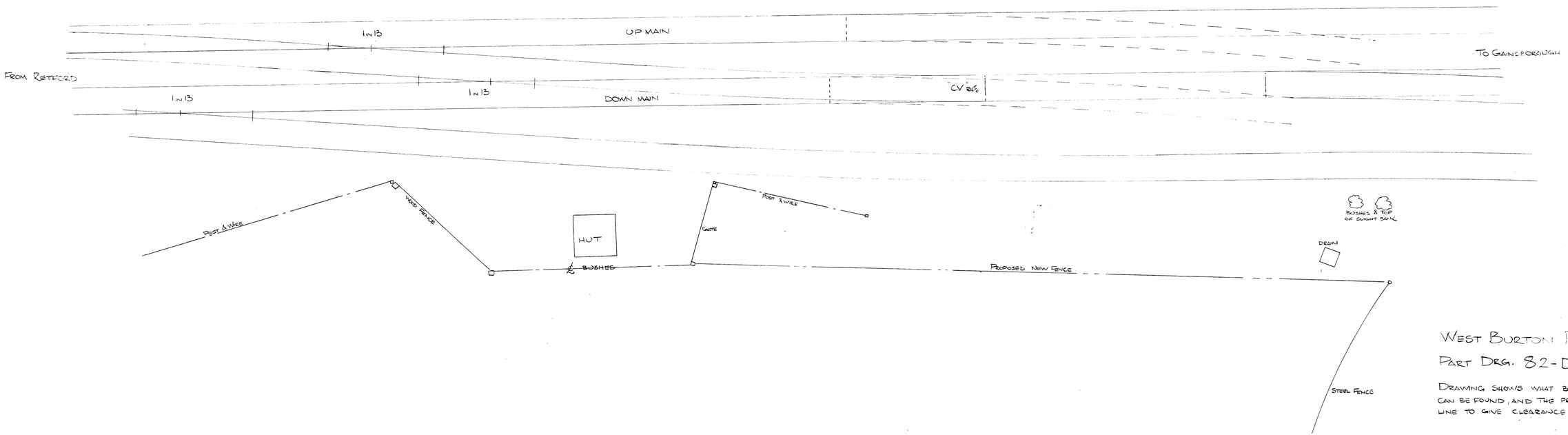
ACC	ACC	K. B. Jones Resident Chief Civil Engineer (Partway).
		Chief Civil Engineer

CLARBOROUGH JCN - COTTAM POWER STATION.

DOWN & UP LINES. 68ml 35ch - 68ml 52ch.

FORMATION INVESTIGATION.

Scale	1:20 Vertical 1:400 Horizontal
File Numbers	CE 20446/6/2023
Drawing Number	84-3500-33.



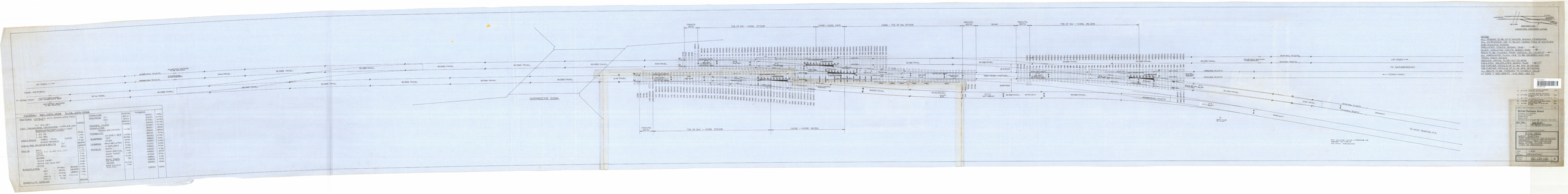
RAILTRACK
102986LNE

WEST BURTON P.S.

PART DRG. 82-DR-109 D

DRAWING SHOWS WHAT BOUNDARY FENCING CAN BE FOUND, AND THE PROPOSED NEW FENCE LINE TO GIVE CLEARANCE FOR S&T CABINETS.

DRAWN P. HOBSON, 4-10-83


UP MAIN
FROM BEFORD
DOWN MAIN
OVERHEAD SIGNAL
TO SANDBOROUGH
DOWN MAIN
TO WEST BURTON P.S.
TOE OF SW = NORM. 271QDS
TOE OF SW = NORM. 271QDS
TOE OF SW = NORM. 271QDS
TOE OF SW = NORM. 271QDS
NOTES
ALL DIMENSIONS TO BE LO'D CALLING (NORMAL DIMENSIONS)
ALL DIMENSIONS TO BE TAKEN FROM THE CENTRE OF SWITCHES AND RUNNING RAIL
SIGNALS TO BE PLACED AS SHOWN ON PLAN
SIGNALLING LOCATE DRAWING TBA
ALL SIGNALS TO BE PLACED ON THE RIGHT HAND SIDE
SIGNALS TO BE PLACED TRACK WIDENING TBA
ALL SIGNALS TO BE PLACED ON THE RIGHT HAND SIDE OF THE TRACK FOR DETAILS
SIGNALS TO BE PLACED TRACK WIDENING TBA
ALL SIGNALS TO BE PLACED ON THE RIGHT HAND SIDE OF THE TRACK FOR DETAILS
SIGNALS TO BE PLACED TRACK WIDENING TBA
FOR FURTHER DETAILS OF SW. NOS. 05,06,08,09
ALL SIGNALS TO BE PLACED ON THE RIGHT HAND SIDE
ALL SIGNALS TO BE PLACED ON THE RIGHT HAND SIDE
SWITCHES TO BE SIGNED FT. 01.03.2000 LEVEL 2.5
Network Rail
Railway House
Railway Place
Railway Square
Railway Street
Railway Terrace
Railway Way
Railway Yard
Railway Yard Sidings
Railway Yard Sidings
Railway Yard Sidings