British Geological Survey

BGS ID: 1045618 : BGS Reference: SJ89NW3424
British National Grid (27700) : 383300,397670

MANCHESTER CITY COUNCIL

CITY ENGINEER AND SURVEYORS DEPARTMENT

SJ89NW 3424
8330 9767

SITE INVESTIGATION FOR Main Drainage	DATE COMMENCED 2.8.84
LOCATION Bridgewater Street/Rice Street	BORING METHOD S.S.Multi-Rig
BOREHOLE No. 2 (Sheet 1 of 2)	BORING DIAMETER 150/60mm
GRID REFERENCE	SCALE: 1:50

DATE	CASING DEPTH (m)	WATER LEVEL MORNING & EVENING	DEPTH OF STRATA BELOW GL	Reduced Level	DESCRIPTION	No. and Type of Sample	SAMPLE DEPTH PENETRATION From	To	No. of Blows	Legend
2.8.84			0.05		Bituminous Surfacing					
			0.20		Setts					
			1.20		Clayey sand, gravel, brick-pieces etc. Made Ground	D1	0.5			
			2.70		Medium dense brown SAND and GRAVEL with very sandy zones.	P1 B1 P2 B3	1.35 1.20 2.35 2.20	1.65 2.65 	13 15 	
			2.80		Very stiff/hard red/brown MARL	D2	2.7			
			3.50		Very dense fine/medium grained SAND	P3	3.35	3.50	78	
			6.70		Red/brown fine/medium grained laminated to very thinly bedded moderate to completely weathered very weak to weak SANDSTONE. Contd....	Core run 3.30 to 3.35 3.85 to 5.05 5.05 to 6.38 6.38 to 7.60	T 31 69 62 98	S 0 30 17 96	R 0 0 0 45	F 20 17 15 12

WATER OBSERVATIONS DURING BORING

DEPTH OF WATER ENTRY (m)	ESTIMATED SEE PAGE	STANDING LEVEL (m)	DEPTH OF CASING WHEN SEALED (m)
None Observed			

WATER LEVEL IN CASED/UNCASED BOREHOLE ON COMPLETION

DATE	WATER LEVEL	DEPTH OF CASING

REMARKS:- T=Total Core Recovery (%). Solid Core Recovery (%). R= Rock Quality Designation (%) F= Fracture Index.

SAMPLE TEST KEY: D – DISTURBED SAMPLE; B – BULK SAMPLE; U – UNDISTURBED SAMPLE; P – SPT SAMPLE; W – WATER SAMPLE

NOTE: WHERE FULL 0.3 PENETRATION HAS NOT BEEN ACHIEVED, THE NUMBER OF BLOWS FOR THE QUOTED PENETRATION IS GIVEN (NOT N – VALUE)

ALL DEPTHS AND REDUCED LEVELS IN (m) UNLESS OTHERWISE STATED

REMARKS
Trial hole excavated to 1.20m below ground level.
Borehole backfilled with concrete on completion.
SPT sample P3 recorded 78 blows for 150mm penetration.

M/c 5931

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SITE INVESTIGATION FOR Main Drainage	DATE COMMENCED 2.8.84
LOCATION Bridgewater Street (Rice Street	BORING METHOD S.S.Multi-Rig
BOREHOLE No. 2 (Sheet 2 of 2)	BORING DIAMETER 60mm
GRID REFERENCE	SCALE: 1:50

DATE	CASING DEPTH (m)	WATER LEVEL MORNING & EVENING	DEPTH OF STRATA BELOW GL	Reduced Level	DESCRIPTION	No. and Type of Sample	SAMPLE DEPTH PENETRATION From	SAMPLE DEPTH PENETRATION To	No. of Blows	Legend
					Red/brown fine/medium grained very thinly to medium bedded moderate to slightly weathered weak to moderately weak SANDSTONE	Core Run	T	S	R	F
						7.60 to 9.10	93	81	41	13
					- Band of highly weathered Sandstone proved at 10.75m					
					- Occasional bands of silty mudstone proved between 10.5 and 11.05m.	9.10 to 10.50	100	94	64	13
					- Mudstone band proved from 11.8 to 11.9m.	10.50 to 12.00	100	66	35	16
2.8.84	–	–	12.00							

WATER OBSERVATIONS DURING BORING

DEPTH OF WATER ENTRY (m)	ESTIMATED SEE PAGE	STANDING LEVEL (m)	DEPTH OF CASING WHEN SEALED (m)

WATER LEVEL IN CASED/UNCASED BOREHOLE ON COMPLETION

DATE	WATER LEVEL	DEPTH OF CASING

REMARKS:–

SAMPLE TEST KEY

D – DISTURBED SAMPLE
B – BULK SAMPLE
U – UNDISTURBED SAMPLE
P – SPT SAMPLE
W – WATER SAMPLE

NOTE: WHERE FULL 0.3 PENETRATION HAS NOT BEEN ACHIEVED, THE NUMBER OF BLOWS FOR THE QUOTED PENETRATION IS GIVEN (NOT N – VALUE)

ALL DEPTHS AND REDUCED LEVELS IN (m) UNLESS OTHERWISE STATED

REMARKS

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LINE OF EXISTING SEWER SJ89NW3423-3432

CITY ENGINEER AND SURVEYOR'S DEPT.
MANCHESTER

BHA

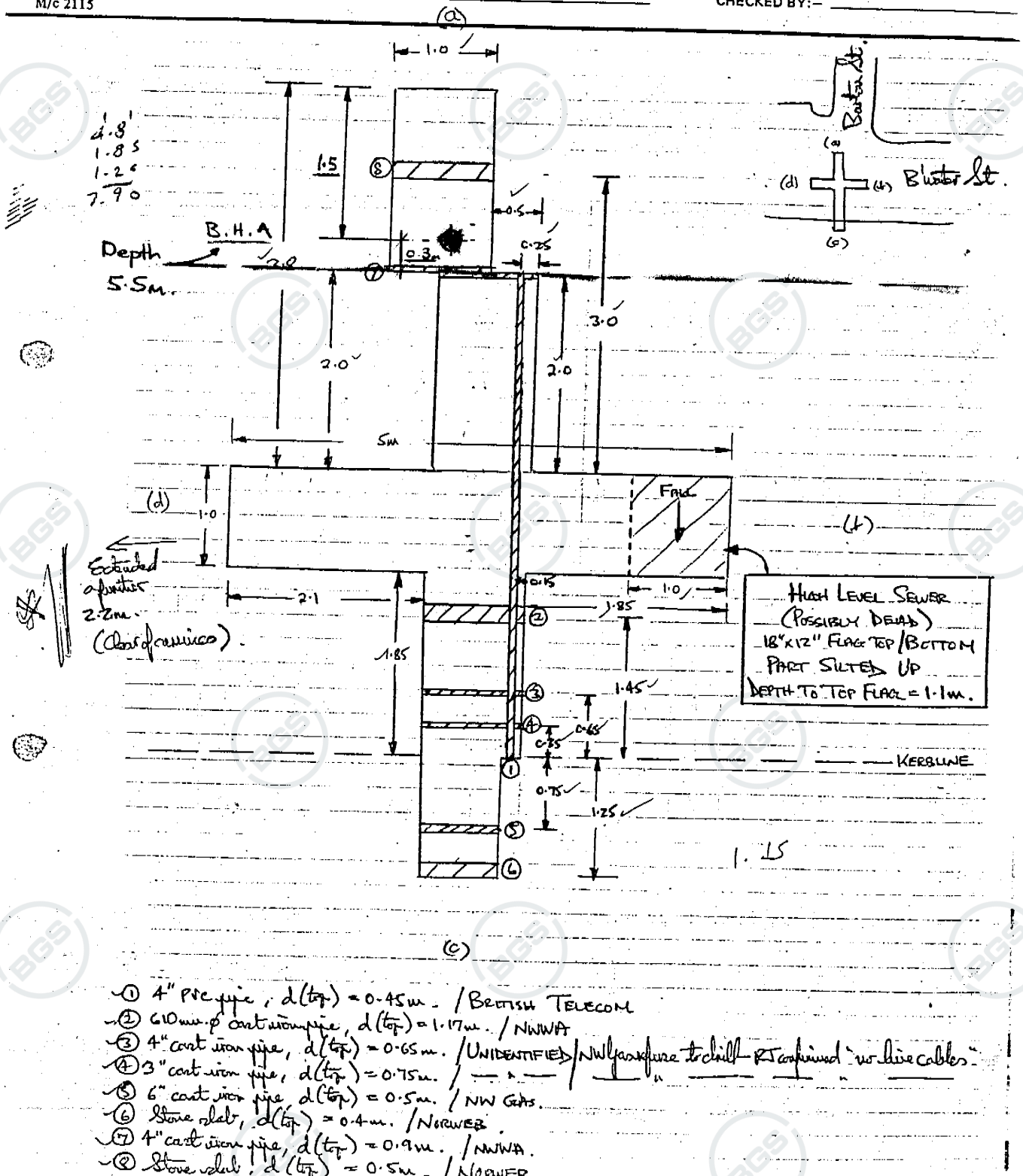
DESIGN SHEET

SHEET NO:-
OF:-

SECTION

PREPARED BY:- GS/IC
DATE:-
CHECKED BY:-

PROJECT:- TRIAL HOLE No 2.
M/c 2115



① 4" Pre cast pipe, d(top) = 0.45m. / BRITISH TELECOM
② 610mm.ϕ cast iron pipe, d(top) = 1.17m. / NWWA
③ 4" cast iron pipe, d(top) = 0.65m. / UNIDENTIFIED / NW gas fuse to cliff - RT confirmed "no live cables"
④ 3" cast iron pipe, d(top) = 0.75m. / — " — " —
⑤ 6" cast iron pipe d(top) = 0.5m. / NW GAS.
⑥ Stone slab, d(top) = 0.4m. / NORWEB.
⑦ 4" cast iron pipe, d(top) = 0.9m. / NWWA.
⑧ Stone slab, d(top) = 0.5m. / NORWEB.

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SJ89NW3423 - 3432

CITY ENGINEER AND SURVEYOR'S DEPT.
MANCHESTER

BHE (BH D not req'd)

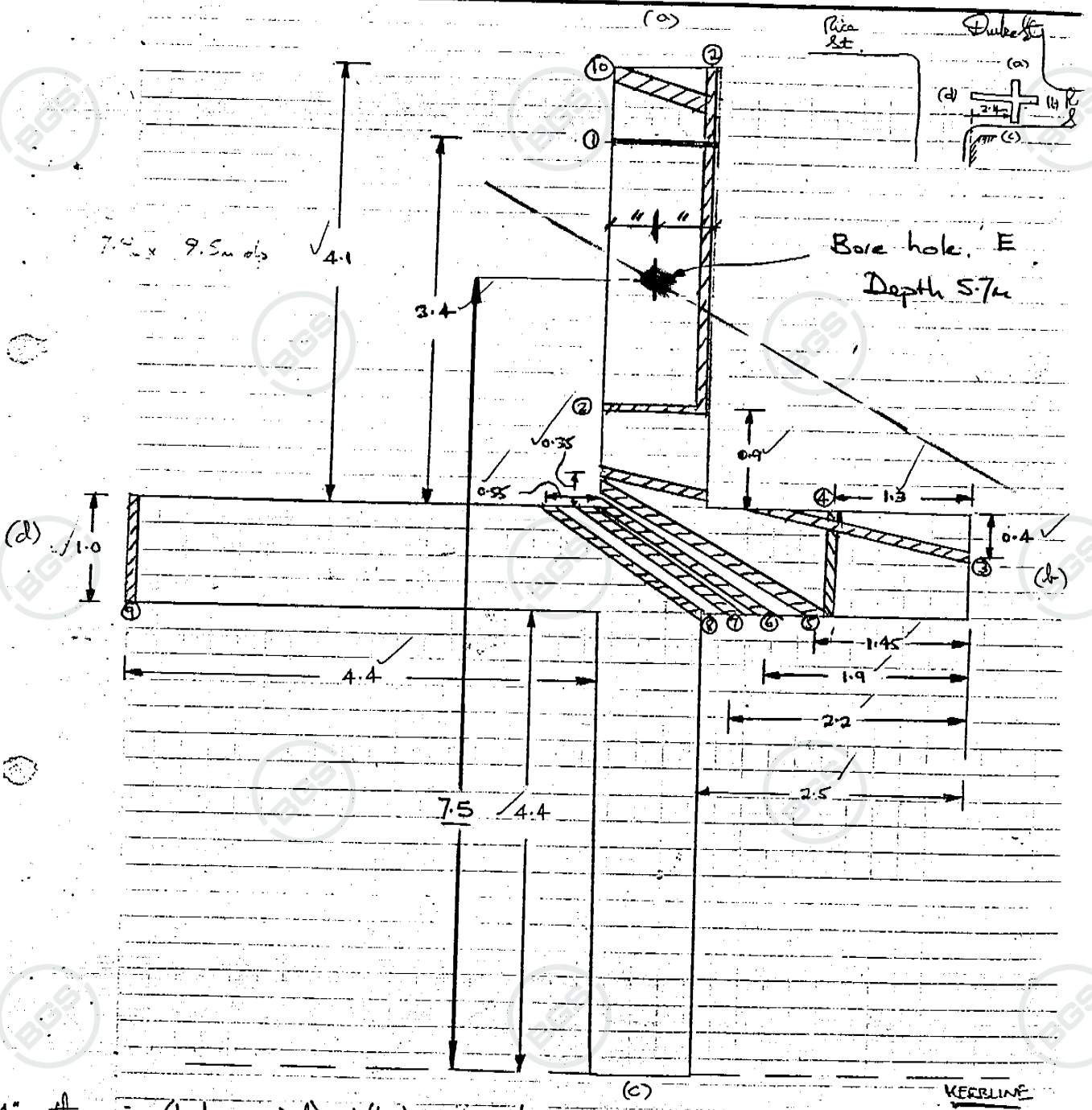
SHEET NO:–
OF:–

DESIGN SHEET

SECTION

PROJECT:– TRIAL HOLE No 7.
M/c 2115

PREPARED BY:– GS /IC
DATE:–
CHECKED BY:–



4" earthware pipe (broken-repaired), d (top) = 0.8m. / BRITISH TELECOM.
HYDRAULIC MAIN., d (top) = 0.8m.
Stone slab, d (top) = 0.6m. / NORWEB.
" cast iron pipe, d (top) = 0.85m. / UNIDENTIFIED – RT; No "LIVE" CABLES.
Stone slab, d (top) = 0.9m. / NORWEB
" earthware pipe, d (top) = 1.05m. / NORWEB
(10) Stone slab, d (top) = 0.85m. / NORWEB
d (top) = 1.05m. / NORWEB
cast iron pipe, d (top) = 0.5m. / UNIDENTIFIED – RT; No "LIVE" CABLES

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