COVERING OF ALL STATUTORY SERVICES TO FACILITATE SEWER CONNECTION WORKS

UTILISE EX 150 DIA ABANDONED CONNECTION

NEW 300x300 SWEPT TEE ON EX SEWER

MH 6704

MH F4 (1200)
APPROX IL 36.730 (150)
B/D 38.278

PPIC F3
CL 39.525
IL 38.394

PPIC S5
CL 39.550
IL 38.915

PPIC S2
CL 39.525
IL 38.854

MH S4 (1500)
CL 39.650
IL 37.80

ANY CONNECTIONS UNCOVERED DURING CONSTRUCTION WORKS – IF NOT PROPERERLY ABANDONED, EITHER GRUB UP AND SEAL END OR GROUT UP ENTIRE REMAINING LENGTH

DISHED CHANNEL

MH S3 (2100)
HYDROBRAKE OPTIMUM
SHE-0265 (265mm ORIFICE)
CL 39.600
IL 37.920 (450/300)
IL 38.070 (150)

PPIC S6
CL 39.550
IL 38.755 (100)
IL 38.705 (150)

CONCRETE SURROUND

MH 6705
CL 38.07
IL 35.74
DEPTH 3.33m

MH 6706

LOCATE MH & CCTV ANY UPSTREAM CONNECTIONS INTO SITE, GRUB UP AND PLUG / ABANDON SECTION OF DOWNSTREAM SEWER

MH S5 (1200)
CL 39.915
IL 38.500

MH S2 (1800)
CL 39.725
IL 38.264 (225)
IL 38.339 (150)
IL 38.039 (450)

MH S1 (1800)
CL 39.850
IL 38.425

PPIC S4
CL 39.700
IL 38.982 (100)
IL 38.932 (150)

PPIC S1
CL 39.750
IL 39.205

PPIC S2
CL 39.825
IL 38.928

PPIC S3
CL 39.850
IL 39.075

PPIC F1
CL 39.825
IL 39.050

PPIC S12
CL 40.050
IL 39.457

PPIC S13
CL 39.975
IL 39.437

MH F9 (1200)
CL 39.975
IL 37.76
B/D 38.855

MH 6707
CL 40.33
IL 37.29
DEPTH 3.04

PPIC S11
CL 39.900
IL 39.140 (100)
IL 39.090 (150)

PPIC S10
CL 39.800
IL 39.200

PPIC S14
CL 40.00
IL 39.252

PPIC F8
CL 40.000
IL 39.155

PPIC F7
CL 39.900
IL 39.220

PPIC S8
CL 40.300
IL 39.675 (100)
IL 39.625 (150)

PPIC S9
CL 40.35
IL 39.763

PPIC S7
CL 40.450
IL 39.775

PPIC F6
CL 40.450
IL 39.527

PPIC F5
CL 40.450
IL 39.609

MH 7701
CL 40.15
IL 38.87
DEPTH 1.28m

MH 7615
CL 40.45
IL 36.67
DEPTH 1.88m

MH 6607 UTL

MH 6602
CL 39.40
IL 34.74
DEPTH 4.66m

MH 6606 UTL

MH 6601
CL 40.88
IL 36.62
DEPTH 4.26m

900x550 BRICK

HEATHER CLOSE

TETLOW STREET

TARMAC

ELECTRICAL SUB STATION

GENERAL NOTES

1. SETTING OUT SHALL BE UNDERTAKEN USING ONLY THE INFORMATION GIVEN. DISTANCES SHOULD NOT BE SCALED FROM THIS DRAWING.
2. ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6TH EDITION AND UNITED UTILITIES DETAILS & GUIDELINES.
3. THE MINIMUM GRAVITY PIPE DIAMETER UNDER ADOPTABLE HIGHWAYS SHALL BE 150MM.
4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL INFORMATION GIVEN WITH REGARDS TO EXISTING SERVICES AND DRAINAGE CONNECTIONS ETC. PRIOR TO COMMENCING THE WORKS. THE RATES SHALL INCLUDE FOR HAND DIG AROUND SERVICES WHERE NECESSARY. THE CONTRACTOR SHALL ADHERE TO THE CDM REGULATIONS AT ALL TIMES
5. THE OUTSIDES OF ALL SEWERS SHALL BE A MINIMUM OF 10M FROM KERB LINES AND THE OUTSIDE OF MANHOLES SHALL BE A MINIMUM OF 05M FROM KERB LINES
6. EXISTING FLOWS IN WATERCOURSES, SEWERS AND LAND DRAINS SHALL BE MAINTAINED AT ALL TIMES ?, ONLY TRAINED PERSONNEL SHALL BE PERMITTED TO ENTER CONFINED SPACES
7. ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS
8. ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR THE NETWORK OPERATOR AS APPLICABLE.
9. WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADOPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION.
10. A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES. TRENCH BACKFILL IN HIGHWAYS TO WITHIN 1M OF HIGHWAY SHALL AS DIRECTED BY THE HIGHWAY AUTHORITY BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 4.3.4. 12. SLAB LEVELS SHALL NOT BE VARIED WITHOUT REFERENCE TO THE ENGINEER FOR GUIDANCE
11. DOMESTIC DRAINAGE SHALL BE TO BUILDING REGULATIONS APPROVED DOCUMENT H. 110MM U.P.V.C. PIPES LAID TO THE FOLLOWING MINIMUM FALLS UNLESS OTHERWISE SHOWN.

	FOUL	S.W.
HEAD RUN	1 IN 40	1 IN 60
ELSEWHERE	1 IN 80	1 IN 100

12. POLYPROPYLENE INSPECTION CHAMBERS TO BE PROVIDED TO ALL PRIVATE DRAINAGE LESS THAN 1.10m DEEP. WHERE PRIVATE DRAINAGE RUNS ARE DEEPER THAN 1.10m, REDUCED ACCESS CHAMBERS TO BE PROVIDED.

LEGEND

- S38 SURFACE WATER MANHOLE
- S38 FOUL WATER MANHOLE
- COMBINED MANHOLE
- FOUL WATER DRAINAGE RUN
- SURFACE WATER DRAINAGE RUN
- COMBINED DRAINAGE RUN
- RG ADOPTABLE ROAD GULLY
- PRIVATE SW MANHOLE (REFER TO NOTE 12)
- PRIVATE FW MANHOLE (REFER TO NOTE 12)
- FOUL CONNECTION
- PRIVATE FOUL WATER DRAINAGE RUN
- PRIVATE SURFACE WATER DRAINAGE RUN
- YG YARD GULLY
- RODDING EYE TO SURFACE WATER DRAINAGE
- RAIN WATER PIPE
- 6m WIDE PERMANENT EASEMENT REQUIRED
- EXISTING ADOPTED SURFACE WATER SEWER
- EXISTING ADOPTED FOUL WATER SEWER
- EXISTING ADOPTED COMBINED SEWER

KEY TO H&S SYMBOLS

- WARNING RISK
  INDICATES A RESIDUAL RISK AS A WARNING.
- COMPULSORY RISK
  INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
- PROHIBITIVE RISK
  INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
- INFORMATION RISK
  INDICATES A RESIDUAL RISK FOR INFORMATION.

- THE CONTRACTOR IS TO PROVIDE A BELOW GROUND SERVICES SURVEY PRIOR TO COMMENCEMENT OF ANY FOUNDATION WORKS ON SITE.
- DEEP EXCAVATIONS ARE TO BE GUARDED TO PREVENT UNAUTHORISED ACCESS.
- THE CONTRACTOR IS TO VERIFY THE LOCATION OF ALL EXISTING DRAINS/SEWERS WITHIN THE SITE BOUNDARY TO ASCERTAIN REQUIREMENTS FOR DIVERSION OR REMOVAL.
- EXISTING BELOW GROUND SERVICES MAY BE PRESENT GROUND WORKS CONTRACTOR TO DEVELOP SAFE SCHEME OF WORKS PRIOR TO COMMENCEMENT ON SITE.

PRELIMINARY SUBJECT TO SECTION 104 APPROVAL

REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS: **TENDER**

CLIENT: LIVERPOOL MUTUAL HOMES

ARCHITECT: BYA

PROJECT: TETLOW STREET LIVERPOOL

TITLE: PROPOSED DRAINAGE LAYOUT

STATUS:	PROJECT NUMBER	DRAWING No:	REV:
D2	214-304	C-001	-

SCALE @ A0	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
100	VW	VW	JS	JS	14.04.15

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