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DO NOT SCALE

NOTES

CONNECTIONS FROM WPC TO BE LAID AT 1/40 MINIMUM AND 1/10 MAXIMUM GRADIENTS WHERE CONSTRUCTED UNDER THE BUILDING

LOCATION SIZE AND SETTING OUT OF ALL RAINWATER AND WASTE PIPE CONNECTIONS REFER TO THE RELEVANT ARCHITECT'S DRAWING FOR DESIGN PURPOSES THESE HAVE BEEN ASSUMED

SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PPG3 THESE INCLUDE SILT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM WIRED BACK TO A MANNED OFFICE

ALL EXISTING DRAINAGE LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER NOTIFIED BEFORE ANY DRAIN RUNS ARE CONSTRUCTED

ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS

THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES

ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT SHALL BE ABANDONED
DRAINS AND SEWER LESS THAN 1.500m DEEP WHICH ARE IN OPEN GROUND SHOULD AS FAR AS IS PRACTICABLE BE FULLY REMOVED
ALL OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUT FILLED TO ENSURE THAT RATS CANNOT GAIN ACCESS
LARGER PIPES 225Ø OR ABOVE SHOULD BE GROUT FILLED TO PREVENT SUBSIDENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE

UNIT 2
FFL 161.175m

SWMH-101, SWMH-102, FWMH-101 AND FWMH-102 ARE TO BE LEFT UN-BENCHED WITH THE INCOMING PIPE BROUGHT INTO THE CHAMBERS AT THE DOWN STREAM END IN THE EXISTING CHAMBER THE FUTURE STUB CONNECTIONS SHALL HAVE A TEMPORARY STOPPER INSTALLED

SWMH-101
CL157.250
IL155.250 (375Ø)
Dp. 2.000m
SIZE 1500Ø PCC

SWMH-102
CL156.975
IL154.590 (450Ø)
Dp. 2.385m
SIZE 1500Ø PCC

FWMH-101
CL157.250
IL156.000 (150Ø)
Dp. 1.250m
SIZE 1200Ø PCC

FWMH-102
CL156.700
IL155.490 (100Ø)
Dp. 1.210m
SIZE 1200Ø PCC

EX. S33
CL157.480
IL154.480 (525Ø)
IL154.180 (825Ø)
Dp. 3.300m

EX. S34
CL157.040
IL153.990 (825Ø)
Dp. 3.050m

EX. F11
CL157.160
IL155.830 (150Ø)
Dp. 1.330m

EX. F12
CL157.080
IL155.230 (150Ø)
Dp. 1.850m

EX. S41
CL156.350
IL153.830 (825Ø)
Dp. 3.050m

DRG

SEWER AND DRAIN TESTING

ALL SEWERS AND DRAINS CONSTRUCTED AS PART OF THE CONTRACT SHALL BE TESTED AFTER THEY ARE JOINTED AND BEFORE ANY CONCRETE OR BACKFILLING IS COMMENCED, OTHER THAN SUCH AS MAY BE NECESSARY FOR STRUCTURAL STABILITY WHILST UNDER TEST

TESTING SHALL BE IN ACCORDANCE WITH SFA AND BS EN 1610

TESTING OF PIPES UP TO AND INCLUDING 750mm NOMINAL DIAMETER SHALL BE BY MEANS OF AN AIR OR WATER TEST.
FOR PIPES LARGER THAN 750mm NOMINAL DIAMETER A VISUAL EXAMINATION SHALL BE CARRIED OUT

A FURTHER TEST SHALL BE CARRIED OUT AFTER THE BACKFILLING IS COMPLETE

ADDITIONAL TESTING MAYBE REQUIRED AS INSTRUCTED BY THE WATER COMPANY AND/OR HIGHWAYS INSPECTOR/REPRESENTATIVE

AIR TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SFA SECTION 5.7.4 AND BS EN 1610

WATER TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SFA SECTION 5.7.5 AND BS EN 1610

VISUAL INSPECTIONS (CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE "WSA/FWR MODEL CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS"

THE FOUL WATER RISING MAIN SHALL BE PRESSURE TESTED BY THE M&E CONTRACTOR AND CERTIFICATION PROVIDED TO THE WATER COMPANY
A REPRESENTATIVE FROM THE WATER COMPANY MAY NEED TO BE PRESENT DURING THE TESTING THE CONTRACTOR SHALL LIAISE WITH THE WATER COMPANY INSPECTOR AS TO THERE REQUIREMENTS

KEY

- EXISTING FW DRAINS /SEWERS
- EXISTING SW DRAINS/SEWERS
- PROPOSED FW DRAINS/SEWERS
- PROPOSED SW DRAINS/SEWERS
- PROPOSED FW MANHOLE
- PROPOSED SW MANHOLE
- DRAINS TO BE ABANDONED
- RWP (***Ø) — PROPOSED RAINWATER DOWN PIPE SIZE & LOCATION TBC, BY OTHERS
- RG — PROPOSED TRADITIONAL TYPE ROAD GULLY WITH 150Ø OUTLET PIPE
- WPC — PROPOSED WASTE PIPE CONNECTION SIZE & LOCATION TBC, BY OTHERS (* DENOTES WC CONNECTED)
- PROPOSED DRAINAGE CHANNEL SPECIFICATION AS NOTED ON PLAN LAYOUT
- PROPOSED KERB DRAINAGE SYSTEM SPECIFICATION AS NOTED ON PLAN LAYOUT

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH JPG CONSULTANTS STANDARD SPECIFICATION & ALL RELEVANT BRITISH & EUROPEAN STANDARDS.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M & E CONSULTANTS AND JPG CONSULTANTS DRAWINGS.

3. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT CLARIFICATION CAN BE SOUGHT PRIOR TO COMMENCEMENT OF WORKS.

DRAINAGE NOTES

1. ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752:2008 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDINGS, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.

2. ANY DRAINAGE TO BE PUT FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION LATEST EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING SEWERAGE/WATER AUTHORITY.

3. THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINS/SEWERS AND SERVICES SHALL BE ESTABLISHED BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

4. THE CONTRACTOR SHALL ALLOW FOR THE PROTECTION, TEMPORARY AND PERMANENT SUPPORT AND DIVERSION WORKS AS NECESSARY, TO ALL EXISTING SERVICES TO THE SATISFACTION OF THE UTILITY COMPANIES.

5. THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM GROUNDWATER BY MEANS OF SUMPS, PUMPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REASONABLY DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.

6. ALL LEVELS AND DIMENSIONS SHALL BE VERIFIED ON SITE PRIOR TO THE COMMENCEMENT OF ANY WORKS. ANY DISCREPANCIES SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.

7. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN/NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.

8. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.

9. THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.

10. ALL PIPES SHALL BE LAID WITH LEVEL SOFFITS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE (UNLESS OTHERWISE INDICATED IN THE DRAWING).
PIPE RUNS SHALL BE LAID TO THE INVERT LEVELS AS DETAILED ON THE CONTRACT DRAWINGS.
(NOTE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE).

11. ALL RAINWATER PIPES AND INTERNAL FOUL DRAIN CONNECTIONS POINTS ARE TO BE SIZED & POSITIONED AS SHOWN ON THE ARCHITECTS DRAWINGS.
THE CONTRACTOR SHALL SUPPLY SUITABLE ADAPTORS AT PROPOSED GROUND LEVELS OR FINISHED FLOOR LEVEL TO ALLOW CONNECTION OF THE ABOVE GROUND DRAINAGE SYSTEM.
(DETAILS OF THE ABOVE GROUND DRAINAGE SYSTEM AND ADAPTORS ALL BY OTHERS).

12. UPON COMPLETION OF THE DRAINAGE WORKS THE CONTRACTOR SHALL CLEAN ALL DRAIN RUNS BY JETTING AND REMOVE ALL DEBRIS FROM SITE.
NO DEBRIS SHALL BE PERMITTED TO ENTER THE PUBLIC SEWER AND/OR WATERCOURSE SYSTEM.
ONCE THE DRAINAGE SYSTEM HAS BEEN FULLY CLEANED OUT A CCTV CAMERA CONDITION SURVEY SHALL BE UNDERTAKEN TO ALL CONSTRUCTED DRAINAGE AND SEWER PIPES WITH THE FOOTAGE ISSUED TO THE ENGINEER FOR VIEW.
THE AS BUILT INVERT AND COVER LEVELS SHALL BE RECORDED BY THE CONTRACTOR AND PASSED ON

TO THE ENGINEER FOR REVIEW.

REV	DESCRIPTION	DATE	BY
D	DRAWING UPDATE IN LINE WITH CONTRACTORS PROPOSAL AND MEETING ON 01.05.2019	10.05.2019	JDM
C	CONSTRUCTION ISSUE	28.03.2019	JDM
B	CONTRACT ISSUE	01.02.2019	KR
A	INITIAL ISSUE	24.08.2018	JDM

Job Title
WENTWORTH WAY,
TANKERSLEY

Drawing Title
FW AND SW DRAINAGE LAYOUT
UNIT 1

CONSTRUCTION

Architect
KPP

JPG
www.jpg.group
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Checked	Date	Scale		Drawn
	AUG 2018	1:200	A0	JDM

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