

DO NOT SCALE

NOTES

GENERAL NOTES

1. ALL MATERIALS AND WORKMANSHIP IS TO COMPLY WITH JPG CONSULTANTS STANDARD SPECIFICATION & ALL RELEVANT BRITISH & EUROPEAN STANDARDS.
2. THE DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, M.E.C. 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.

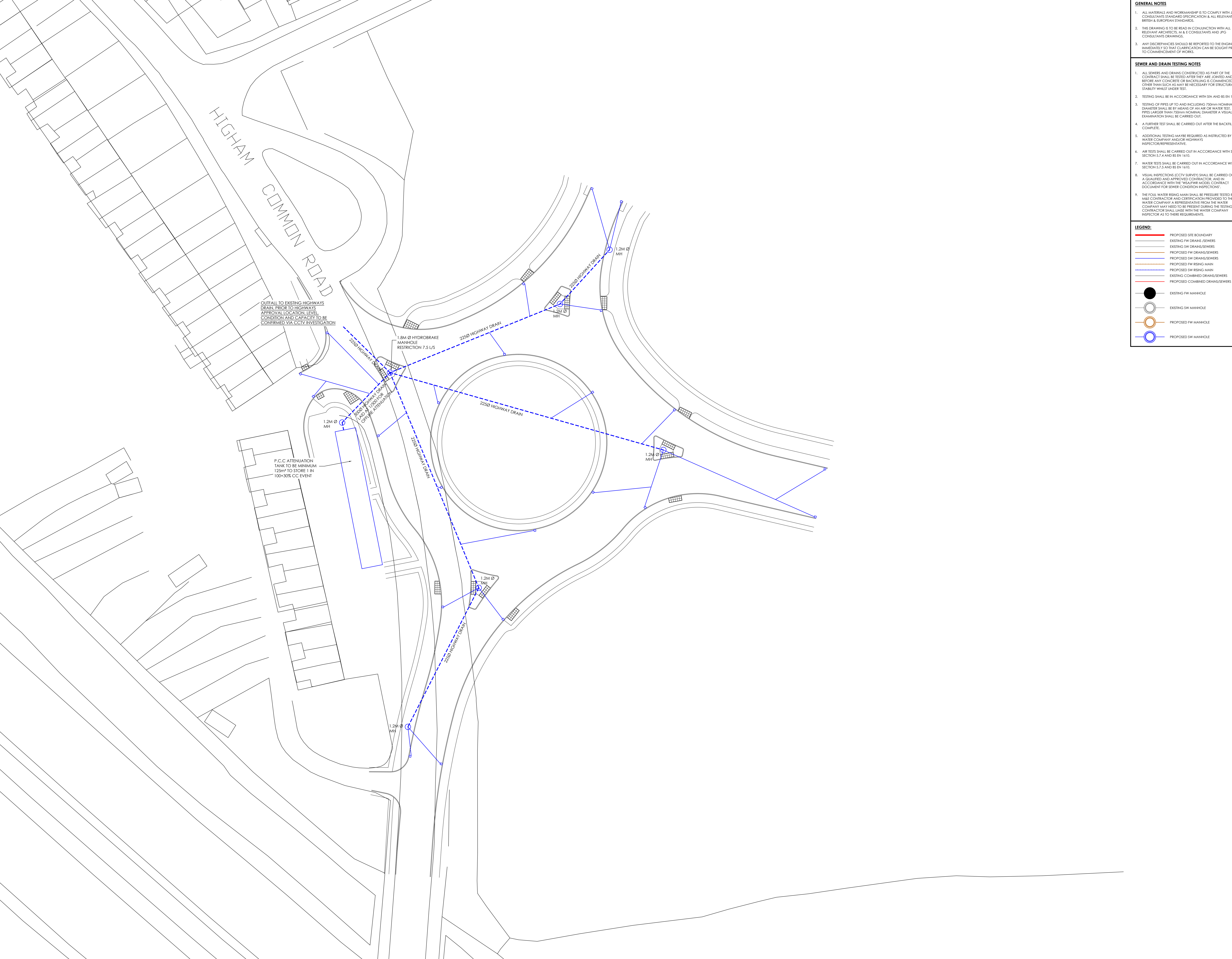
SEWER AND DRAIN TESTING NOTES

1. ALL SEWERS AND DRAINS CONSTRUCTED AS PART OF THE CONTRACT SHALL BE TESTED AFTER THEY ARE INSTALLED AND BEFORE ANY CONCRETE OR BACKFILLING IS COMMENCED. OTHER THAN SUCH AS MAY BE NECESSARY FOR STRUCTURAL STABILITY WHILST UNDER TEST.
2. TESTING SHALL BE IN ACCORDANCE WITH SIA AND BS EN 1610.
3. 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.
4. A FURTHER TEST SHALL BE CARRIED OUT AFTER THE BACKFILLING IS COMPLETE.
5. ADDITIONAL TESTING MAY BE REQUIRED AS INSTRUCTED BY THE WATER COMPANY AND/OR HIGHWAYS INSPECTOR REPRESENTATIVE.
6. AIR TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA SECTION 5.7.4 AND BS EN 1610.
7. WATER TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA SECTION 5.7.5 AND BS EN 1610.
8. VISUAL INSPECTIONS (CCTV SURVEY) SHALL BE CARRIED OUT BY A QUALIFIED AND APPROVED CONTRACTOR, AND IN ACCORDANCE WITH THE WATER COMPANY CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS.
9. THE FOUL WATER RISING MAIN SHALL BE PRESSURE TESTED BY THE A/EI 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 LIASE WITH THE WATER COMPANY INSPECTOR AS TO THEIR REQUIREMENTS.

LEGEND:

- PROPOSED SITE BOUNDARY
- EXISTING FW DRAINS/SEWERS
- PROPOSED FW DRAINS/SEWERS
- PROPOSED SW DRAINS/SEWERS
- PROPOSED FW RISING MAIN
- PROPOSED SW RISING MAIN
- EXISTING COMBINED DRAINS/SEWERS
- PROPOSED COMBINED DRAINS/SEWERS
- EXISTING FW MANHOLE
- EXISTING SW MANHOLE
- PROPOSED FW MANHOLE
- PROPOSED SW MANHOLE

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 DRAINAGE 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, PUMPS AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS REACHABLE 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. ALL EXISTING DRAINAGE LOCATIONS AND LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER NOTIFIED BEFORE ANY DRAIN RUNS ARE CONSTRUCTED.
8. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SHOULD ANY EXISTING LIVE DRAINAGE BE FOUND WITHIN THE SITE BOUNDARY SERVING ADJACENT PROPERTIES.
9. ALL EXISTING DRAINAGE WITHIN THE SITE NOT REQUIRED FOR THE NEW DEVELOPMENT SHALL BE ABANDONED. DRAINS AND SEWERS LESS THAN 1.500m DEEP WHICH ARE IN OPEN GROUND SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUND FILLED TO ENSURE THAT RAIS CANNOT GAIN ACCESS. LARGER PIPES 2250 OR ABOVE SHOULD BE GROUT FILLED TO PREVENT SUBSIDIENCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE.
10. ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS.
11. CONNECTIONS FROM WPC TO BE LAID AT 1/40 MINIMUM AND 1/10 MAXIMUM GRADIENTS WHERE CONSTRUCTED UNDER THE BUILDING.
12. ALL PIPE CONNECTION FROM DRAINAGE CHANNELS AND GULLIES SHALL BE 1500 PIPES AT A MINIMUM GRADIENT OF 1:100 WITH CLASS 5 BEDDING (IND) ON THE DRAWING.
13. ALL PIPE CONNECTIONS FROM RWFS TO BE 1000 AT 1/40 MIN. WITH CLASS 5 BEDDING BENEATH THE BUILD AND CLASS 2 UNDER EXTERNALS WHERE COVER IS LESS THAN 1.200 (IND). ON THE DRAWING (LOCATION OF RWFS TO BE CONFIRMED BY THE ARCHITECT AND TENANT (NOTE ADDITIONAL CHAMBERS AND PIPE WORK MAY BE REQUIRED TO SUIT THE TENANT LAYOUT)).
14. ALL SYNTHETIC RWP SYSTEMS TO BE DESIGNED BY OTHERS. BEFORE BEING DOWN PIPE TO FIRST MANHOLE TO BE SIZED/ DESIGNED BY SYNTHETIC SYSTEM DESIGNER. THE FIRST MANHOLE TO HAVE AN OPEN GRADE COVER SAFTER COAR WATERWAY 2000 - 4000 OR SIMILAR APPROVED.
15. ALL PIPE CONNECTIONS FROM WPCS TO FIRST CHAMBER SHALL BE 1000 AT 1/40 MIN. WITH CLASS 5 BEDDING BENEATH THE BUILD AND CLASS 2 UNDER EXTERNALS WHERE COVER IS LESS THAN 1.200 (IND). ON THE DRAWING (LOCATION OF WPC TO BE CONFIRMED BY THE ARCHITECT AND TENANT (NOTE ADDITIONAL CHAMBERS AND PIPE WORK MAY BE REQUIRED TO SUIT THE TENANT LAYOUT)).
16. LOCATION SIZE AND SETTING OUT OF ALL RAINWATER AND WASTE PIPE CONNECTIONS REFER TO THE RELEVANT ARCHITECTS DRAWING FOR DESIGN PURPOSES THESE HAVE BEEN ASSUMED.
17. SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PPG3 WHICH INCLUDE SILT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM. WIPED BACK TO A MANNED OFFICE.
18. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT REGULATIONS WHEN WORKING IN NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.
19. THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.
20. THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.
21. 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 DETAIL ON THE CONTRACT DRAWINGS. NOTE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE.
22. 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 DRAINAGE SYSTEMS (DETAILS OF THE ABOVE GROUND DRAINAGE SYSTEM AND ADAPTORS ALL BY OTHERS).
23. 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.



PO3	REVISED AS PER COUNCIL REQUESTS	05.03.20	BT
PO2	DRAINAGE STRATEGY REVISED	13.12.19	BT
PO1	FIRST ISSUE	05.12.19	PO1

REV	DESCRIPTION	DATE	BY

Project
HIGHAM COMMON ROAD
PROPOSED ROUNDABOUT

Drawing Title
DRAINAGE LAYOUT

PLANNING ISSUE

Architect



JPG Project Ref	Scale of A0	Date	Checked	Drawn
4848	1:500	DEC 19		BT