



Special Projects
Earthworks
Remediation
Infrastructure

CORE Special Projects Ltd
Barnsley West S278 - North
Construction Phase Traffic Management Plan - Original - 17.6.21
Barugh Green Road

- Compound area stoned and tarmaced
- Compound Area fenced off with solid hoarding
- Site storage area will be segregated using heras fencing
- All work areas will be fenced of with heras fencing.
- Access onto site will have site entrance warning signs placed on the public highway.
- Advanced warning signs will be placed ahead of any online traffic management

BARUGH GREEN ROUNDABOUT SURFACE WATER MANHOLE SCHEDULE

ERT LEVEL	SUMP DEPTH	DEPTH	EASTINGS	NORTHINGS	DIAMETER	TYPE	COVER
m - 12000 OUT	0.000m	3.916m	431535.630	407899.395	24000	TYPE A (12000 ACCESS SHAFT)	600x600 - CLASS D400
3m - 12000 IN	0.000m	3.308m	431546.062	407924.298	24000	TYPE B	600x600 - CLASS D400
m - 12000 OUT	0.000m	2.495m	431564.121	407946.988	24000	TYPE B	600x600 - CLASS D400
0m - 2250 IN	0.500m	3.013m	431560.613	407957.309	24000	TYPE B	600x600 - CLASS D400
m - 2250 OUT	0.000m	2.559m	431511.756	407955.258	12000	TYPE B	600x600 - CLASS D400
m - 2250 OUT	0.000m	2.115m	431534.483	407928.491	12000	TYPE B	600x600 - CLASS D400

EEN ROUNDABOUT SURFACE WATER PIPE SCHEDULE

DIENT	DIAMETER	U/S INVERT LEVEL	D/S INVERT LEVEL	U/S MANHOLE	D/S MANHOLE
100	2250	84.490m	84.000m	005	004
100	2250	84.390m	84.000m	006	004
500	12000	83.154m	83.100m	001	002
527	12000	83.100m	83.045m	002	003
545	12000	83.045m	83.025m	003	004

BARUGH GREEN ROUNDABOUT FOUL WATER MANHOLE SCHEDULE

REF.	COVER LEVEL	INVERT LEVEL	SUMP DEPTH	DEPTH	EASTINGS	NORTHINGS	DIAMETER	TYPE	COVER
217	86.259m	83.975m - 3750 IN 83.975m - 3750 OUT	0.000m	2.284m	431537.284	407948.055	12000	TYPE B	600x600 - CLASS D400
218	85.727m	83.915m - 3750 IN	0.000m	1.812m	431546.145	407963.723	12000	TYPE B	600x600 - CLASS D400

BARUGH GREEN ROUNDABOUT FOUL WATER PIPE SCHEDULE

REF.	LENGTH	FALL	GRADIENT	DIAMETER	U/S INVERT LEVEL	D/S INVERT LEVEL	U/S MANHOLE	D/S MANHOLE
7	18.000m	0.060m	1:300	3750	83.975m	83.915m	217	218
8	53.287m	0.178m	1:300	3750	84.153m	83.975m		217
9	30.000m	0.200m	1:150	2250		84.325m		217

DO NOT SCALE

NOTES

GENERAL NOTES

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

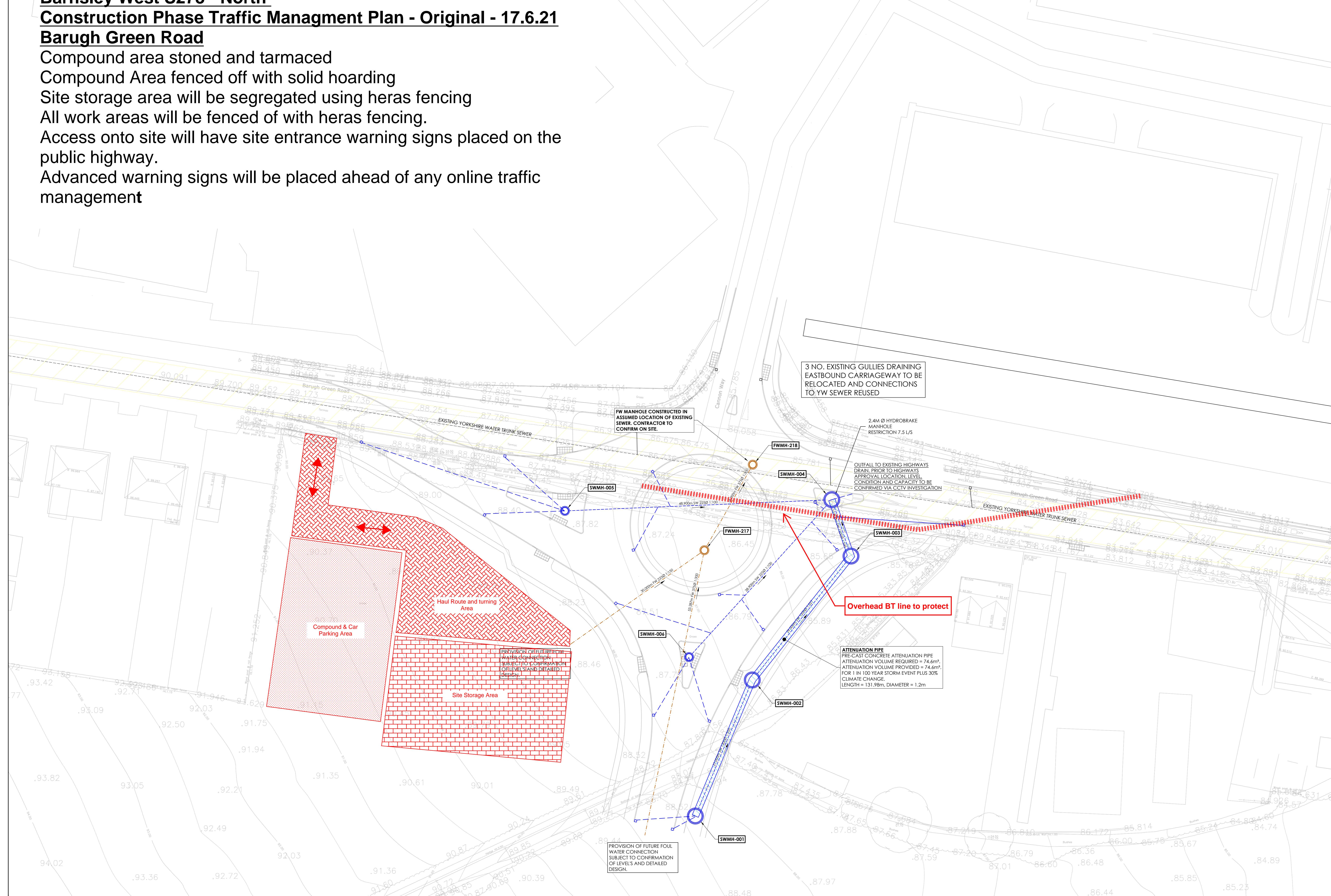
- ALL SEWERS AND DRAINS CONSTRUCTED AS PART OF THE CONTRACT SHALL BE TESTED AFTER THEY ARE JOINED AND BEFORE ANY CONCRETE OR BACKFILLING IS COMMENCED. OTHER THAN SUCH AS MAY BE NECESSARY FOR STRUCTURAL STABILITY WHILE UNDER TEST.
- TESTING SHALL BE IN ACCORDANCE WITH SIA AND BS EN 1610.
- TESTING OF 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 MAY BE REQUIRED AS INSTRUCTED BY THE WATER COMPANY AND/OR HIGHWAYS INSPECTOR/REPRESENTATIVE.
- AIR TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA SECTION 5.7.4 AND BS EN 1610.
- WATER TESTS SHALL BE CARRIED OUT IN ACCORDANCE WITH SIA 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 WATER COMPANY CONTRACT DOCUMENT FOR SEWER CONDITION INSPECTIONS.
- THE FOUL WATER RING MAIN SHALL BE PRESSURE TESTED BY THE MAIN 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 CO-ORDINATE WITH THE WATER COMPANY INSPECTOR AS TO THEIR REQUIREMENTS.

LEGEND:

- EXISTING SITE BOUNDARY
- EXISTING FW DRAINS/SEWERS
- EXISTING SW 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

DRAINAGE NOTES

- ALL NEW 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.
- ANY DRAINAGE TO BE PUT FORWARD FOR ADOPTION EITHER WITHIN THE SITE OR OUTSIDE SHALL BE CONSTRUCTED TO SWERS FOR ADOPTION LATEST EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING SEWERAGE WATER AUTHORITY.
- THE LOCATION, SIZE AND DEPTH OF ALL EXISTING DRAINAGE SYSTEMS SHALL BE VERIFIED ON SITE. ANY DISCREPANCIES FROM THE INFORMATION INDICATED ON THESE DRAWINGS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ENGINEER.
- 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.
- THE CONTRACTOR SHALL ALLOW FOR DEALING WITH SURFACE WATER RUN OFF INTO EXCAVATIONS AND FROM EXCAVATIONS BY MEANS OF PUMPS, PIPING AND DE WATERING AS APPROPRIATE, IN ORDER TO KEEP THE EXCAVATION AS DRY AS POSSIBLE DURING THE CONSTRUCTION OF THE WORKS.
- 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.
- ALL EXISTING DRAINAGE LOCATIONS AND LEVELS ARE TO BE CONFIRMED BY THE CONTRACTOR AND THE ENGINEER NOTIFIED BEFORE ANY DRAIN RUNS ARE CONSTRUCTED.
- 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 DRAINAGE SHALL BE ABANDONED. DRAINS AND SEWERS LESS THAN 1.000m DEEP WHICH ARE IN OPEN GROUND SHOULD BE SEATED AT BOTH ENDS AND AT ANY POINT OF CONNECTION, AND BE GROUND FILLED TO SUCH THAT PIPES CANNOT GAIN ACCESS. LARGER PIPES 2250 OR ABOVE SHOULD BE GRADED TO PREVENT SUBSIDIANCE OR DAMAGE TO BUILDINGS OR SERVICES IN THE EVENT OF COLLAPSE.
- ALL MANHOLE/CHAMBER COVER LEVELS ARE APPROXIMATE AND SHALL BE ADJUSTED ON SITE TO SUIT THE PROPOSED FINISHED LEVELS.
- CONNECTIONS FROM WPC TO BE LAD AT 1/40 MINIMUM AND 1/10 MAXIMUM GRADIENTS WHERE CONSTRUCTED UNDER THE BUILDING.
- ALL PIPE CONNECTION FROM DRAINAGE CHANNELS AND GULLIES SHALL BE 1500 PIPES AT A MINIMUM GRADIENT OF 1:100 WITH CLASS 5 BEDDING UNDO ON THE DRAWING.
- ALL PIPE CONNECTIONS FROM RWPTS TO BE 1000 AT 1/40 MIN WITH CLASS 5 BEDDING BENEATH THE BUILD AND CLASS 2 UNDER EXTERNALS WHERE COVER IS LESS THAN 1.200m UNDO. ON THE DRAWING LOCATION OF RWPT TO BE CONFIRMED BY THE ARCHITECT SHOWN INDICATIVELY ON THE DRAWING.
- ALL SYNCHRONIC RWPT SYSTEMS TO BE DESIGNED BY OTHERS. PREPARE FROM DOWN PIPE TO FIRST MANHOLE TO BE SIZED/DESIGNED BY SYNCHRONIC SYSTEM DESIGNER. THE FIRST MANHOLE TO HAVE AN OPEN GRASS COVER SHALL COMPLY WATERWAY 2000 - D400 OR SIMILAR APPROVED.
- ALL PIPE CONNECTIONS FROM RWPTS 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 1.200m UNDO. ON THE DRAWING LOCATION OF RWPT TO BE CONFIRMED BY THE ARCHITECT AND TENANT (NOTE ADDITIONAL CHAMBERS AND PIPE WORK MAY BE REQUIRED TO SUIT THE TENANT LAYOUT).
- 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.
- SUITABLY SIZED PETROL INTERCEPTORS MUST COMPLY WITH THE REQUIREMENTS OUTLINE IN PP103 THESE INCLUDE SILT STORAGE CAPACITY AND HIGH LEVEL HYDROCARBON ALARM. WIPED BACK TO A MANNED OFFICE.
- THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS IN LINE WITH CURRENT LEGISLATION WHEN WORKING IN NEAR CONFINED SPACES, DEEP EXCAVATIONS AND MACHINERY.
- THE CONTRACTOR SHALL ALLOW FOR OBTAINING ALL APPROVALS FROM THE RELEVANT AUTHORITIES WHEN WORKING IN THE PUBLIC HIGHWAY AND ON THE SEWERAGE SYSTEM.
- THE CONTRACTOR SHALL SUITABLY PROTECT PEDESTRIANS AND VEHICLES FROM WORKING AREAS.
- ALL PIPES SHALL BE LAD WITH LEVEL SOFFITS AND ALL MANHOLE/INSPECTION CHAMBER INVERT LEVELS SHOWN ARE FOR THE OUT GOING PIPE UNLESS OTHERWISE INDICATED IN THE DRAWINGS. PIPE RUNS SHALL BE LAD TO THE INVERT LEVELS AS DETAILED ON THE CONTRACT DRAWINGS. NOTE THAT ALL PIPE GRADIENTS INDICATED ON THE DRAWINGS ARE APPROXIMATE.
- 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).
- 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 AT ALL CONSTRUCTED DRAINAGE AND SEWER WORKS 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
P02	ISSUED FOR ENGINE MANHOLES SCHEDULES ADDED.	06.02.21	MRJW
P03	REVISED AS PER COUNCIL COMMENTS	05.03.20	BT
P01	FIRST ISSUE.	05.12.19	PO1

Project
BARUGH GREEN ROAD
PROPOSED ROUNDABOUT

Drawing Title
DRAINAGE LAYOUT

TENDER ISSUE

Architect

