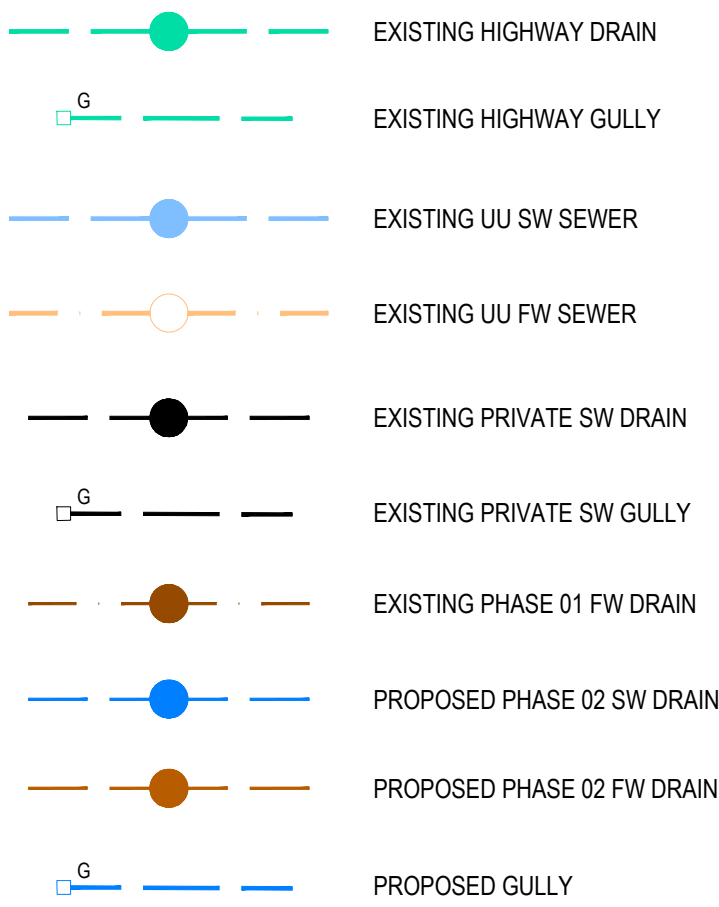


*RESIDUAL HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY)
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 079708-CUR-ZZ-XX-HA-X-00001.
HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.*

HAZARD REGISTER

HAZARD REF.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	POTENTIAL HAZARD IDENTIFIED	ACTION (INFORMATION TO ASSIST CONTROL)
1.00 ENABLING / HIGHWAY WORKS			
1.01	WORKS WITHIN THE PUBLIC HIGHWAY	VEHICLE IMPACT WITH SITE OPERATIVES DURING WORKS IN PUBLIC HIGHWAY	CONTRACTOR TO ENSURE APPROPRIATE CONSTRUCTION METHODOLOGY SEQUENCE IS IN PLACE DURING CONSTRUCTION WORKS. TRAFFIC MANAGEMENT TO BE ASSESSED AND IMPLEMENTED WHERE REQUIRED.
2.00 SIDE WIDE ISSUES			
2.01	EARTHWORKS & EXCAVATION WORKS WITHIN AREAS OF MINESHAFTS	INSTABILITY AND COLLAPSE OF WORKS DUE TO CLOSE PROXIMITY OF MINESHAFTS	CONTRACTOR TO ENSURE APPROPRIATE CONSTRUCTION METHODOLOGY SEQUENCE TO BE IN PLACE DURING CONSTRUCTION WORKS.
3.00 EXISTING BURIED & OVERHEAD SERVICES			
3.01	CROSSING OF EXISTING SERVICES INCLUDING PUBLIC SEWERS IN HIGHWAYS	STRIKING BURIED SERVICES	CONTRACTOR TO SURVEY EXISTING SERVICES ON SITE PRIOR TO CONSTRUCTION WORKS. DESIGNER TO ASSESS SURVEY INFORMATION AS REQUIRED.
5.00 EXCAVATIONS AND FOUNDATIONS			
5.01	EARTHWORKS & EXCAVATIONS	INSTABILITY AND COLLAPSE DURING CONSTRUCTION PHASE	CONTRACTOR TO ENSURE APPROPRIATE CONSTRUCTION METHODOLOGY SEQUENCE TO BE IN PLACE DURING CONSTRUCTION WORKS.
5.02	EMBANKMENT WORKS	STEEP BANKING CAN CAUSE INSTABILITY. ISSUES WITH PLANT ESTABLISHMENT, MAINTENANCE OR SAFETY.	CONTRACTOR TO ENSURE EMBANKMENT WORKS ARE SUITABLY COMPACTED AND CONSTRUCTED IN ACCORDANCE WITH EARTHWORKS SPECIFICATION REQUIREMENTS.

DRAINAGE



DESIGN PHILOSOPHY

SW DRAINAGE:
REFER TO DRAWINGS 066658-CUR-00-XX-DR-D-72101 AND 066658-CUR-00-XX-DR-D-72102 FOR DETAILS FOR OVERALL SITE DRAINAGE LAYOUT.

FW DRAINAGE:
PROPOSED FW TO CONNECT INTO EXISTING UU FW SEWER. LEVELS INDICATE THAT PUMPING MAY NOT BE REQUIRED. TBC FOLLOWING FURTHER DESIGN AND SURVEY OF EXISTING SEWER. CONNECTION SUBJECT TO S106 AGREEMENT.

OTHER DISCIPLINE DRAWING REFERENCES

THE DESIGN OF THIS SCHEME HAS BEEN DESIGNED IN ACCORDANCE WITH THE BELOW DRAWINGS AND INFORMATION.

TOPOGRAPHICAL SURVEY REF:
ELLAM LAND SURVEYS 8303_2D/1 REV A

OUTSTANDING ITEMS:

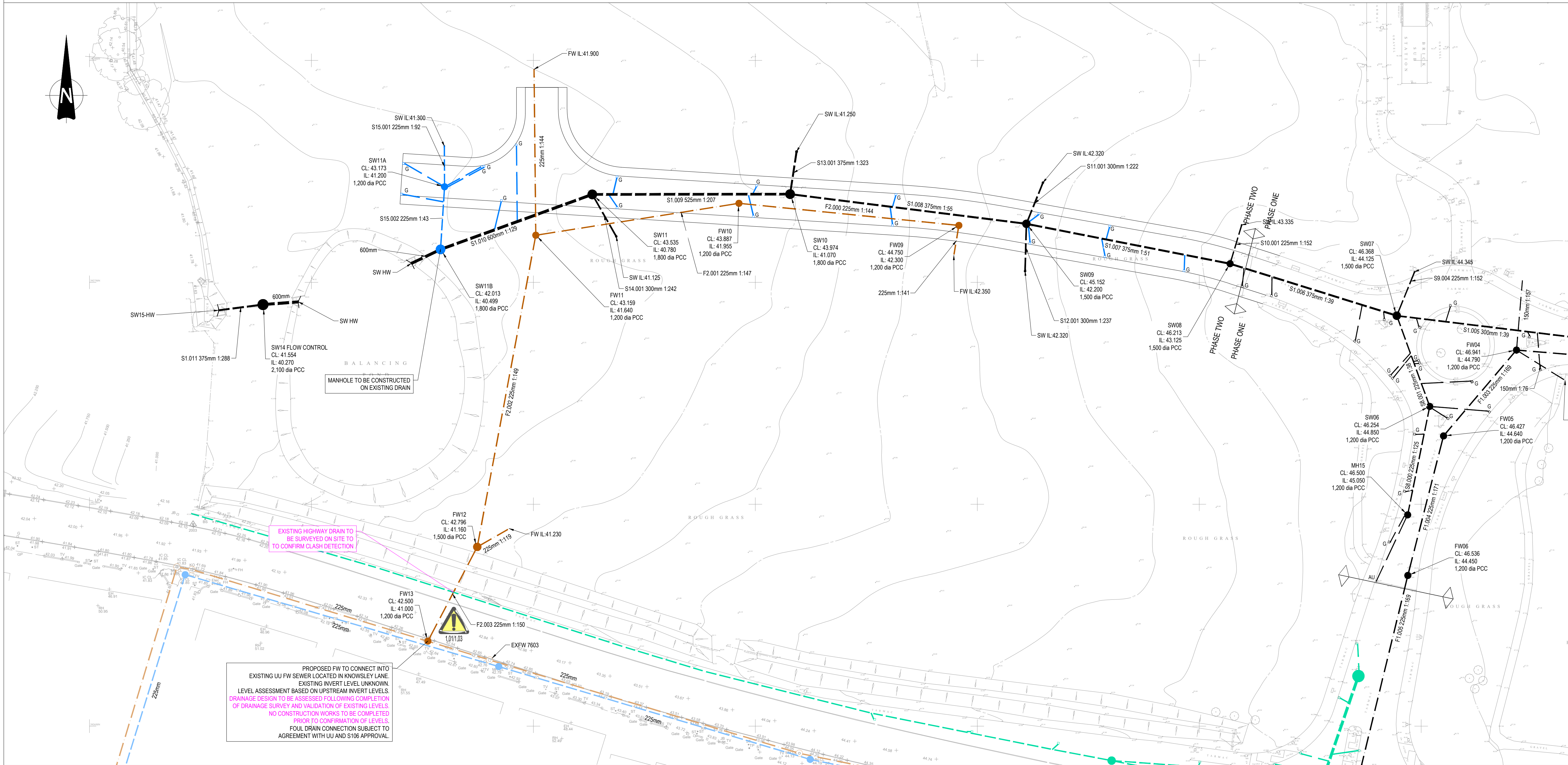
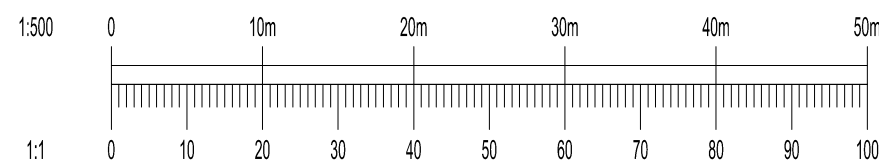
- DRAINAGE SURVEY OF EXISTING UU FOUL SEWER LOCATED WITHIN KNOWSLEY LANE.

DISCLAIMER:

- ALL PROPOSED PRIVATE FOUL DRAINAGE IS SUBJECT TO S106 APPROVAL WITH UU.

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY (CESWI) AS INCLUDED IN SEWERS FOR ADOPTION 7th EDITION, THE REQUIREMENTS OF APPROVED DOCUMENT H (2002 EDITION) AND BUILDING REGULATIONS 2000.
- ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
- IT IS ADVISED THAT THE CONTRACTOR SURVEY RETAINED EXISTING DRAINAGE PRIOR TO COMMENCEMENT TO CONFIRM LOCATION AND CONDITION. POTENTIAL PRE-CLEANING TO BE UNDERTAKEN IN ORDER TO FACILITATE SURVEY IF REQUIRED.
- EXISTING SEWER LOCATIONS WHERE THE PROPOSED DRAINAGE IS TO CONNECT, ARE TO BE SURVEYED AND EXACT LEVELS CONFIRMED AND PROVIDED TO ENGINEER PRIOR TO COMMENCEMENT OF WORKS.
- ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
- ALL ADOPTABLE DRAINAGE WORKS INCLUDING WORKS TO EXISTING PUBLIC SEWERS TO BE UNDERTAKEN IN ACCORDANCE WITH SEWER SECTOR GUIDANCE (SSG) AND CONSTRUCTED TO THE RELEVANT STATUTORY UNDERTAKERS DETAILS.
- ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH "CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7th EDITION", BS EN 752 2008 'DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS' AND THE BUILDING REGULATIONS APPROVED DOCUMENT H.
- ALL PIPE DIAMETERS GIVEN ARE NOMINAL INTERNAL PIPE DIAMETERS.
- ALL ADOPTABLE DRAINAGE PIPES WILL REQUIRE A MINIMUM OF 1200mm COVER, IN ACCORDANCE WITH SEWERAGE UNDERTAKERS REQUIREMENTS.
- ALL PRIVATE DRAINAGE PIPES WITH A COVER PF LESS THAN 1200mm IN TRAFFICKED AREAS TO BE BEDDED AND SURROUNDED IN CONCRETE (CLASS Z), COMPRESSIBLE MATERIAL SHALL BE PROVIDED AT EVERY PIPE JOINT. WHERE COVER EXCEEDS THIS DEPTH, PIPES ARE TYPICALLY BEDDED AND SURROUNDED IN CLASS S. REFER TO PIPE EMBEDMENT DETAILS DRAWING FOR SPECIFIC TYPES.
- WHERE FOUL SEWERS RUN ABOVE SURFACE SEWERS, CONCRETE PROTECTION MAY BE REQUIRED AT CROSSOVERS TO PREVENT ANY POTENTIAL CONTAMINATION.
- ALL NEW CONNECTIONS INTO EXISTING MANHOLES (OR INTO EXISTING SEWERS) TO BE 'SOFFITS LEVEL' UNLESS OTHERWISE NOTED.
- THE CHAMBER SIZE OF MANHOLES WITH MORE THAN ONE CONNECTION IN THEM MAY NEED TO BE INCREASED TO ACCOMMODATE THE CONNECTIONS AND BENDS.
- UNLESS NOTED OTHERWISE IN THE MANHOLE SCHEDULE, ALL MANHOLE, GULLY AND CHANNEL COVERS (IRONWORK) SHOULD BE THE FOLLOWING SPECIFICATION:
 - B125 LOAD CLASS IN PEDESTRIAN AREAS
 - D400 LOAD CLASS IN VEHICULAR AREAS.
- OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
- IT IS ADVISED THAT DRAINAGE WORKS ARE TO BE CONSTRUCTED FROM THE OUTFALL TOWARDS THE HEAD OF RUN TO ENSURE THE OUTFALL CAN BE ACHIEVED.
- ALL DRAINS TO BE CCTV SURVEYED ON COMPLETION OF THE WORKS.
- REFER TO DRAWING 079708-CUR-ZZ-XX-D-C-92102 FOR FULL DRAINAGE NOTES



P02	UPDATED MANHOLE DETAILS	07/02/22	LB	AF
P01	ISSUED	02/01/22	LB	AF

Rev:	Description:	Date:	By:	Chkd:
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Status: **SUITABLE FOR INFORMATION** **S2**

Project: **EARLSFIELD PARK**

Dwg Title: **PHASE 02
DETAILED DRAINAGE LAYOUT**

Drawn By	Designed By	Checked By
LB	LB	AF
Date	31/01/22	Scales @ A1
		1:500

Project No - Originator - Function - Spatial - Form - Discipline - Number	Revision
079708 - CUR - ZZ - XX - D - C - 92101	P02

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