



NOTES:

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL RELATED DOCUMENTATION AND STANDARD DETAILS.
- IN ACCORDANCE WITH THE CDM REGULATIONS RESIDUAL RISKS OF SIGNIFICANCE ARE INDICATED BY MEANS OF A HAZARD TRIANGLE WITH APPROPRIATE NOTE.
- CONFLICTING INFORMATION SHOWN ON THE ENGINEER'S DRAWINGS OR DISCREPANCIES BETWEEN THE INFORMATION GIVEN BY THE ENGINEER AND THAT PROVIDED BY OTHERS MUST BE REFERRED TO THE ENGINEER BEFORE THE WORKS COMMENCE.
- INFORMATION ON THE LOCATION AND SIZE FOR EACH SERVICE HAS BEEN BASED ON RECORD INFORMATION PROVIDED BY THE RELEVANT SERVICE COMPANY AND CLIENT. NOT ALL SERVICES ARE SHOWN. THE POSITIONS SHOWN ARE INDICATIVE ONLY AND MAY NOT BE COMPLETE. THE PRESENCE OF SERVICES ON SITE SHOULD BE VERIFIED PRIOR TO ANY CONSTRUCTION WORK OR INTRUSIVE INVESTIGATIONS. CURRENT ORIGINAL PLANT RECORDS SHOULD BE USED AND NOT THIS INDICATIVE COMBINED SERVICES PLAN.
- THE ACCURACY OF THE RECORDS DEPENDS ON THE SURVEY METHODS EMPLOYED.
- INFORMATION RELATING TO THE LINE AND LEVEL OF EXISTING SERVICES IS OFFERED WITHOUT WARRANTY OR GUARANTEE.
- ALL WORKS AND PROGRAMMING SHALL BE AGREED IN ADVANCE WITH THE OVERSEEING ORGANISATION AND THE CLIENT.
- THE CONTRACTOR SHALL MAINTAIN FREE AND OPEN ACCESS TO THE WIDER DEVELOPMENT, ADJACENT LANDS, PROPERTIES AND HIGHWAY AT ALL TIME UNLESS OTHERWISE AGREED IN WRITING WITH THE CLIENT TEAM AND THE INTERESTED PARTIES.
- THE CONTRACTOR IS ADVISED TO OPERATE A 'PERMIT TO DIG' SYSTEM WITH ASSOCIATED TRACING AND TRIAL HOLEING AS NECESSARY TO LOCATE AND SAFEGUARD EXISTING SERVICES.
- THE CONTRACTOR SHALL AGREE ALL WORKS METHODS AND PROGRAMMING WITH THE RELEVANT STATUTORY AUTHORITIES PRIOR TO THE START OF THE WORKS.
- TEMPORARY WORKS DESIGN ASSOCIATED WITH THE CONSTRUCTION OF THE WORKS SHALL BE RESPONSIBILITY OF THE CONTRACTOR, INCLUDING THE STABILITY OF ALL EXCAVATIONS AND THE SAFETY OF ANY EXISTING STRUCTURES DURING THE WORKS.
- THIS DRAWING HAS BEEN PRODUCED ON THE FOLLOWING INFORMATION:
 - TOPOGRAPHICAL SURVEY, PRODUCED BY STERLING SURVEYS DATED MARCH 2022, RECEIVED ON 19 APRIL 2022.
 - UTILITY SURVEY, PRODUCED BY SUBSIGHT SURVEYS LIMITED (DWG NO. 56205) DATED APRIL 2022, RECEIVED ON 19 APRIL 2022.
 - EMAIL DETAILING DRAINAGE JETTING AND CCTV SURVEYING, PRODUCED BY PDS, RECEIVED 29 APRIL 2022.
 - THE CLIENTS DRAWING PRODUCED BY EMR (LAYOUT OPTION W) DATED 23 JUNE 2022.
 - EMAIL DETAILING EXISTING DRAINAGE SCHEMATICS, PRODUCED BY PDS, RECEIVED 27 MAY 2022.
 - MANHOLE SURVEY AFTER CLEANING, PRODUCED BY SCORPIONES GROUP, RECEIVED VIA EMAIL ON 14 JUNE 2022.
 - MANHOLE SURVEY DETAILING F4a & F2, PRODUCED BY SCORPIONES, RECEIVED VIA EMAIL ON 27 JUNE 2022.
 - CCTV SURVEY DETAILING TRAP WITH CONSTANT FLOW INTO F3, F9, F10 AND POSSIBLE BACKFILLED MANHOLE, PRODUCED BY HYDRO CUTTING SERVICES, RECEIVED 1 JULY 2022.
- THIS DESIGN DOES NOT RESOLVE ALL OF THE ISSUES AND DEFECTS OF THE EXISTING DRAINAGE IDENTIFIED BY THE CCTV SURVEY COMPLETED. FOR FURTHER DETAILS REFER TO THE CCTV SURVEY REPORT.
- WHERE EXISTING PIPES ARE TO BE ABANDONED THEY SHALL BE EITHER DUG OUT TOGETHER WITH ANY ABANDONED MANHOLES OR BACKFILLED WITH FOAMED CONCRETE WHERE REMOVAL IS NOT PERMISSIBLE.
- FOR EXISTING DRAINAGE REFER TO DRAWING 22214G-SIL-DR-C-500-001.
- FOR DRAINAGE LONGITUDINAL SECTIONS REFER TO DRAWING 22214G-SIL-DR-C-500-040.
- FOR DRAINAGE MANHOLE SCHEDULE REFER TO DRAWING 22214G-SIL-DR-C-500-060.
- FOR DRAINAGE DETAILS REFER TO DRAWINGS 22214G-SIL-DR-C-500-080, 081, 082 & 083.

KEY:

- TOPOGRAPHICAL SITE BOUNDARY
- EXISTING THAMES WATER MANHOLE (CONTENT CURRENTLY UNKNOWN)
- EXISTING THAMES WATER SEWER (CONTENT CURRENTLY UNKNOWN)
- EXISTING UNMAPPED PUBLIC COMBINED MANHOLE
- EXISTING UNMAPPED PUBLIC COMBINED SEWER
- EXISTING PRIVATE COMBINED MANHOLE
- EXISTING PRIVATE COMBINED SEWER
- EXISTING PRIVATE SURFACE WATER MANHOLE
- EXISTING PRIVATE SURFACE WATER SEWER
- EXISTING GULLY
- EXISTING DRAINAGE TO BE ABANDONED
- EXISTING MANHOLE/GULLY TO BE ABANDONED
- EXISTING DRAINAGE TO BE ABANDONED FOLLOWING COMPLETION OF DIVERSION WORKS
- EXISTING MANHOLE/GULLY TO BE ABANDONED FOLLOWING COMPLETION OF DIVERSION WORKS
- PROPOSED PUBLIC COMBINED MANHOLE (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)
- PROPOSED PUBLIC COMBINED SEWER
- PROPOSED PRIVATE SURFACE WATER MANHOLE (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)
- PROPOSED PRIVATE SURFACE WATER SEWER
- PROPOSED CATCH PIT/SILT TRAP (REFER TO EMR DETAIL '4.3_TYPICAL MANHOLE SILT TRAP')
- PROPOSED ACO DRAIN (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 AND MANUFACTURER FOR DETAILS)
- PROPOSED ACO DRAIN GULLY/SILT CHAMBER (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 AND MANUFACTURER FOR DETAILS)
- PROPOSED ACO DRAIN ACCESS CHAMBER (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 AND MANUFACTURER FOR DETAILS)
- PROPOSED 600mm X 600mm GULLY (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)
- PROPOSED DOWNPIPE/RAIN WATER PIPE (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)
- PROPOSED GULLY/DOWNPipe CONNECTION CONNECTION (SEE MANUFACTURES DRAWINGS FOR DETAILS)
- PROPOSED NSF150 FULL RETENTION SEPARATOR (SEE MANUFACTURES DRAWINGS FOR DETAILS)
- PROPOSED PRIVATE FOUL SEWER INSPECTION CHAMBER (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)
- PROPOSED PRIVATE FOUL SEWER
- PROPOSED SOIL VENT PIPE (REFER TO DRAWING 22214G-SIL-DR-C-500-080, 081 & 082 FOR DETAILS)

INFORMATION

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|-----|---|-----|-----|-----|------------|
| P09 | SITE LAYOUT UPDATED | EN | RB | RB | 12/10/2022 |
| P08 | OFFICE FOUL DRAINAGE UPDATED | JT | MG | RB | 03/10/2022 |
| P07 | DOWNPipes AND ASSOCIATED DRAINAGE ADDED | JT | MG | RB | 19/08/2022 |
| P06 | S11 ADDED WITH NON RETURN VALVE. S2, S3 & CP01 AMENDED. | JT | MG | RB | 19/08/2022 |
| REV | AMENDMENT | DRN | CHK | APP | DATE |

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CLIENT

emr pds

PROJECT TITLE

EMR SILVERTOWN
FACTORY ROAD

DRAWING TITLE

DETAILED DESIGN
PROPOSED DRAINAGE

| | | | | |
|------------|-------------------------|-----|-----------|-----------------|
| DRAWN | CHK | APP | DATE | SCALE |
| JT | MG | RB | JUNE 2022 | 1:250 @ A1 |
| BIM NUMBER | 22214G-SIL-DR-C-500-002 | | | REVISION P09 |

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25m ON ORIGINAL DRAWING