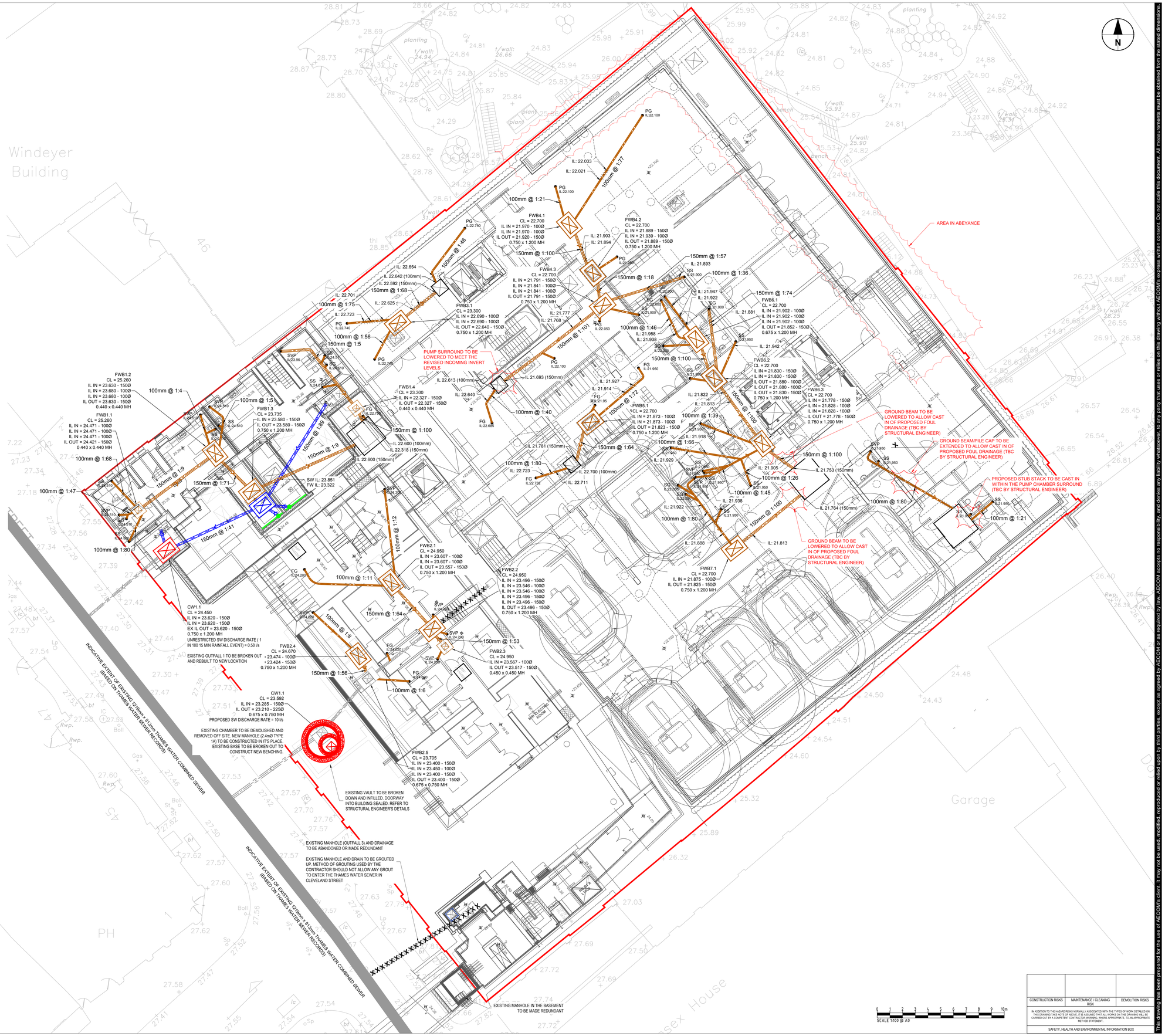
Project Management Initials: Designer: BL Checked: RP Approved: RF ISO A1 841mm x 1189mm

Last saved by: BIMARSHA.UMBU(2019-11-04) Last Plotted: 2019-11-04
Filename: \\UKLON\GPPSW001\ILN_TRANSPORT\INFRASTRUCTURE\LONDON\60516144 - MIDDLESEX ANNEXE HOSPITAL\06_CAD_DATA\01-WIP\[DISCIPLINE]\01_01-DRAWINGS\MHA-ACM-XX-B1-DR-C-00002 - WORKING.DWG

NOTES

1. THIS DRAWING IS TO BE USED FOR THE PURPOSE OF ISSUE THAT IT WAS ISSUED FOR ONLY AND IS SUBJECT TO AMENDMENT DURING DESIGN DEVELOPMENT.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DOCUMENTATION. ANY DISCREPANCIES IN DIMENSIONS OR DETAILS ON OR BETWEEN THESE DRAWINGS SHOULD BE DRAWN TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR CLARIFICATION.
3. DO NOT SCALE FROM DRAWING FOR CONSTRUCTION PURPOSES, USE ONLY PRINTED DIMENSIONS. ANY DISCREPANCIES IN DIMENSIONS OR DETAILS ON OR BETWEEN THESE DRAWINGS SHOULD BE DRAWN TO THE ATTENTION OF THE ARCHITECT AND/OR THE ENGINEER FOR CLARIFICATION.
4. ALL DIMENSIONS, CHAINAGES, LEVELS AND COORDINATES ARE IN METRES UNLESS NOTED OTHERWISE.
5. ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE PROJECT HEALTH AND SAFETY INFORMATION, INCLUDING THE PROJECT HAZARD LOG FOR ANY IDENTIFIED POTENTIAL RISKS.
6. DRAWING USES BACKGROUND INFORMATION RECEIVED FROM
   - STRUCTURES (EXISTING BUILDING RECEIVED ON 12.08.2019 AND NEW BUILD ON 25.10.2018)
   - MEP (DRAIN POINTS RECEIVED ON 14.06.2019 AND PUMP RATES RECEIVED ON 13.08.2019)
   - ARCHITECT (RECEIVED ON 11.10.2019)
   - LANDSCAPE ARCHITECT (RECEIVED ON 10.10.2019)
   - TOPOGRAPHICAL SURVEY (RECEIVED ON 26.09.2016)
   - NORTH HOUSE BASEMENT TRIAL PIT RESULTS (RECEIVED ON 17.12.2018)
   - CCTV DRAINAGE SURVEY (RECEIVED ON 19.12.2017, 11.06.2018 AND 10.09.2018)
7. TOTAL SURFACE WATER DISCHARGE FROM THE SITE TO EXISTING THAMES WATER SEWER IS RESTRICTED TO A RATE OF 10l/s + PROPOSED FOUL FLOW RATE AND UNRESTRICTED SURFACE WATER DISCHARGE OF 0.67l/s. THIS CAN ONLY BE INCREASED BY WRITTEN ACCEPTANCE FROM TWUL AND LOCAL PLANNING AUTHORITY.
8. PROPOSED SURFACE WATER ATTENUATION REQUIREMENTS:
   - SW TANK 1 = 36m³
   - SW TANK 2 = 29m³
   - SW TANK 3 = 37.8m³
   - SHALLOW GEOCELLULAR MODULAR UNIT = 47m³
9. ALL BUILDING DRAINAGE TO BE INSTALLED AND TESTED IN COMPLIANCE WITH THE BUILDING REGULATIONS 2010 PART H (2015 EDITION) AND BS EN 752: 2008. PRE AND POST CONSTRUCTION CCTV DRAINAGE SURVEY TO BE UNDERTAKEN TO DEMONSTRATE THE DRAINAGE IS FULLY OPERATIONAL AND IN COMPLIANCE OF PART H.
10. ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE FULLY CLEANED AND FULLY INSPECTED. ANY STRUCTURAL DEFECTS SHALL BE REPAIRED USING APPROPRIATE AND APPROVED MEANS.
11. DRAINAGE SYSTEM WITHIN BUILDING FOOTPRINT TO ENSIGN/TIMESAVER (CAST IRON) SPECIFICATION OR EQUIVALENT APPROVED. DRAIN PIPES TO BE CASTED INTO THE FOUNDATIONS WHERE SHOWN.BELOW GROUND DRAINAGE OUTSIDE THE BUILDING FOOTPRINT TO BE PLASTIC OR OTHERWISE SPECIFIED (REFER TO DRAINAGE SPECIFICATION).
12. FOR INTERNAL BUILDING DRAIN POINT SETTING OUT, REFER TO ARCHITECT AND MEP DRAWINGS.
13. CAVITY DRAINAGE DESIGN TO BE CARRIED OUT BY THE ARCHITECT/WATERPROOFING SPECIALIST.
14. ALL FOUL WATER DRAINAGE PIPEWORK UNDER BUILDING FLOOR SLAB TO BE MINIMUM 100mm DIAMETER PIPEWORK UNLESS OTHERWISE SHOWN.
15. ALL SURFACE WATER PIPEWORK UNDER BUILDING FLOOR SLAB TO BE MINIMUM 100mm DIAMETER PIPEWORK UNLESS OTHERWISE SHOWN.
16. ALL BRANCH DISCHARGE PIPE SHOULD NOT DISCHARGE INTO A STACK LOWER THAN 750mm ABOVE THE INVERT OF THE TAIL OF THE BEND AT THE FOOT OF THE STACK. THE BEND AT THE FOOT OF THE STACK TO HAVE A MINIMUM RADIUS OF 200mm (BUILDING REGULATIONS PART H)
17. ALL ABOVE GROUND DRAINAGE TO INCORPORATE RODDING ACCESS FACILITIES, REFER TO MEP DRAWINGS.
18. MECHANICAL, ELECTRICAL SUPPLY, VENTING, RISING MAINS, PUMPS, DRAIN POINTS, GULLY, PUDDLE FLANGE AND BUILDING MANAGEMENT SYSTEM COMMUNICATION BY MEP ENGINEER.
19. POSITION OF PROPOSED TREES, ETC. TO ACCOMMODATE ALL UNDERGROUND STRUCTURES, SERVICES AND DRAINAGE.
20. ROOT BARRIERS TO BE PROVIDED WITHIN TREE ZONE, REFER TO LANDSCAPE ARCHITECTS DRAWINGS AND SPECIFICATION.
21. ALL PRECAST CONCRETE UNITS USED IN THE DRAINAGE WORKS SHALL BE MANUFACTURED USING SULPHATE RESISTING CEMENT TO BRE SPECIAL DIGEST 1 FOR ACEC CLASSIFICATION OF AC-2 AND A DESIGN SULPHATE CLASS OF DS-2.
22. COVER LEVELS SHOWN ARE APPROXIMATE ONLY AND ARE TO BE ADJUSTED TO SUIT AS CONSTRUCTED GROUND AND FLOOR LEVELS.
23. ALL DRAINAGE RUNS TO BE LAID SOFFIT TO SOFFIT UNLESS SPECIFIED OTHERWISE.
24. THE CONTRACTOR SHALL, BEFORE COMMENCING THE WORKS, VERIFY ALL SITE AND SETTING OUT DIMENSIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE TRUE AND PROPER SETTING OUT OF THE WORKS AND FOR THE CORRECTNESS OF THE POSITION, LEVELS, DIMENSIONS, AND ALIGNMENT OF ALL PARTS OF THE WORKS.
25. THE CONTRACTOR IS TO FULLY VERIFY THE LOCATION AND LEVELS OF ALL EXISTING SERVICES AND DRAINAGE INCLUDING EXISTING THAMES WATER SEWER AND INVESTIGATIONS IS INDICATIVE BASED ON THAMES WATER SEWER RECORDS, THEREFORE, CONTRACTOR IS TO UNDERTAKE SURVEYS AS NECESSARY.
26. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF NEW UTILITIES CONNECTIONS, DIVERSIONS, REINFORCEMENT AND ADJUSTMENT OF EXISTING CHAMBERS/COVERS AND OTHER WORKS ETC.
27. ALL MANHOLES TO BE CONSTRUCTED TO FACILITATE THE POSITIONING OF COVER AND FRAME TO COINCIDE WITH PAVEMENT PATTERN WHERE FEASIBLE. ORIENTATION OF PAVEMENT PATTERN TO BE SUPPLIED FROM LANDSCAPE ARCHITECTS.



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CONSTRUCTION RISKS	MAINTENANCE / CLEANING RISK	DEMOLITION RISKS

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING TAKE NOTE OF ABOVE, IT IS ASSUMED THAT ALL WORKS ON THIS DRAWING WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROPRIATE METHOD STATEMENT.

SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX

AECOM

PROJECT
BEDFORD PASSAGE DEVELOPMENT

CLIENT
MIDDLESEX ANNEXE LLP

CONSULTANT
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GENERAL NOTES

LEGEND

- PROPOSED SURFACE WATER PIPE
- PROPOSED SURFACE WATER MANHOLE
- PROPOSED FOUL WATER PIPE
- PROPOSED CAST-IN FOUL WATER PIPE
- PROPOSED FOUL WATER MANHOLE
- PROPOSED FOUL WATER INSPECTION CHAMBER
- EXISTING COMBINED PIPE/SEWER
- EXISTING COMBINED MANHOLE
- EXISTING DRAINAGE TO BE ABANDONED
- SUMP — PROPOSED DRAINAGE CHANNEL (ACO M100D OR EQUIVALENT APPROVED)
- PG IL 22.740 — PROPOSED PLANTROOM GULLY
- FG IL 22.685 — PROPOSED FLOOR POINT
- YG IL 23.... — PROPOSED YARD GULLY
- SVP IL 24.510 — PROPOSED SOIL VENT PIPE
- SS IL 24.510 — PROPOSED STUB STACK
- SG IL 21.900 — PROPOSED SHOWER GULLY
- PROPOSED PUMP BY MEP ENGINEER
- SITE BOUNDARY
- PROPOSED COMBINED MANHOLE

ISSUE/REVISION

P06	04.11.2019	REVISED STAGE 4
P05	23.01.2019	ENABLING WORKS TENDER
P04	04.01.2019	ENABLING WORKS TENDER
P03	30.04.2018	FOR INFORMATION
P02	29.03.2018	STAGE 4 DRAFT ISSUE
P01	22.12.2018	PRELIMINARY ISSUE
I/R	DATE	DESCRIPTION

KEY PLAN

PROJECT NUMBER
60516144

SHEET TITLE
PROPOSED DRAINAGE LAYOUT BASEMENT LEVEL

SHEET NUMBER
MHA-ACM-XX-B1-DR-C-00002