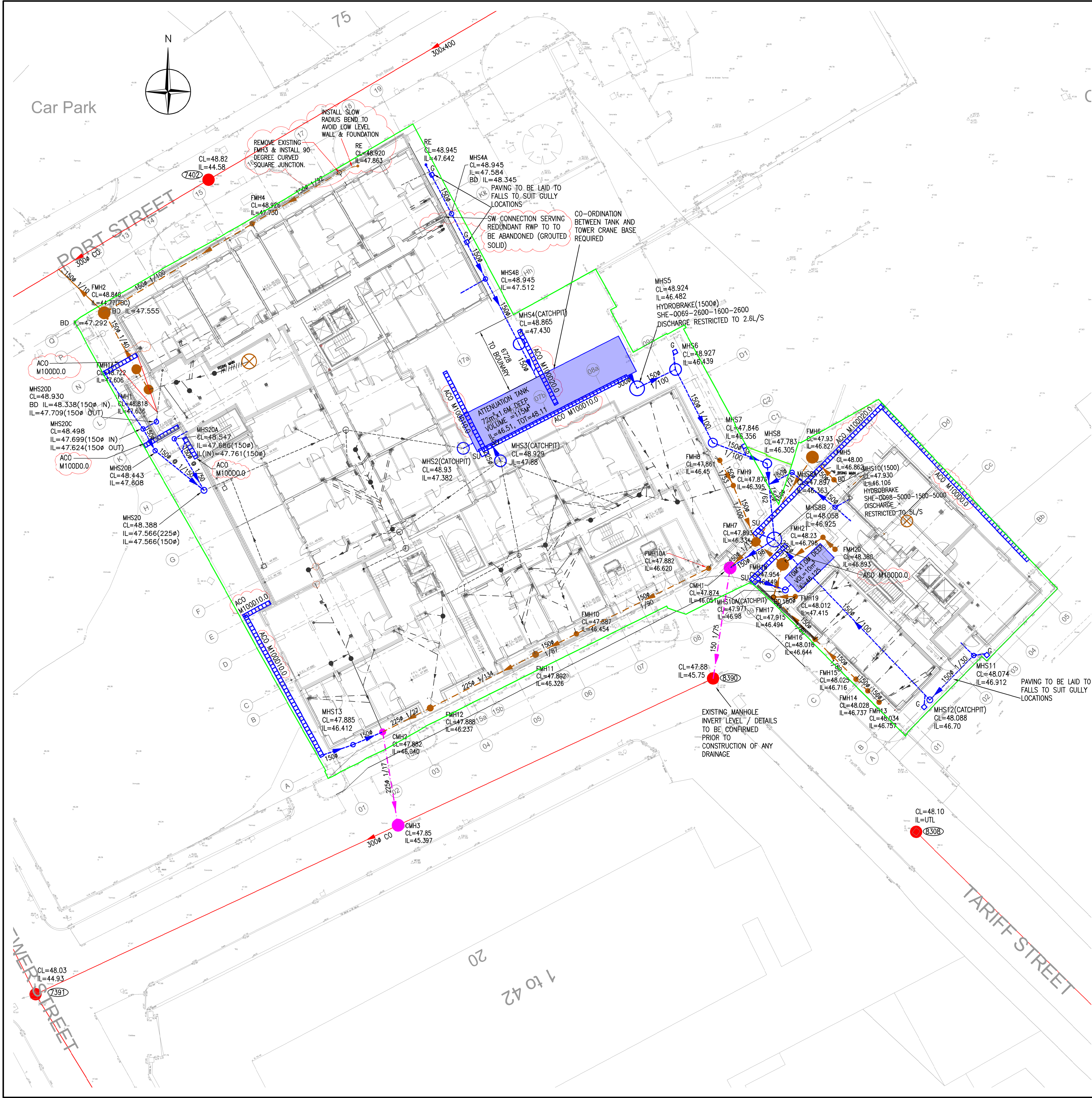




- NOTES:-
- UNLESS NOTED OTHERWISE ALL EXISTING GULLYS ARE DRAINING EXISTING AREAS TO BE RETAINED SUBJECT TO CONDITION.
 - ALL MANHOLE COVERS TO BE GRADE D400 HEAVY DUTY.
 - EXISTING DRAINAGE INFORMATION IS TAKEN FROM UNITED UTILITIES RECORDS. ALL INVERT LEVELS TO BE CONFIRMED PRIOR TO ANY CONSTRUCTION OF PROPOSED DRAINAGE SCHEME.
 - ALL PIPES UP TO 300mm DIA. TO BE EITHER VITRIFIED CLAY OR UPVC/SOLID WALL OR CONCENTRIC RIB TO BRITISH STANDARD). ALL PIPES OVER 300mm DIA. TO BE CONCRETE.
 - ALL MANHOLES TO BE CONSTRUCTED FROM CONCRETE UNLESS NOTED OTHERWISE ON DRAINAGE DETAILS.
 - ALL NEW GULLYS TO BE CONCRETE/CLAY TO HIGHWAYS SPECIFICATION.
 - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS.
 - ALL PIPES TO BE LAID TO SPECIFIED GRADIENTS.
 - FOR PIPE INVERT LEVELS REFER TO MANHOLE SCHEDULES.
 - ALL EXISTING SEWERS/MANHOLES TO BE CHECKED & CLARIFIED TO CONFIRM INVERT LEVELS/POSITIONS.
 - IF ADVERSE GROUND CONDITIONS ARE ENCOUNTERED POSSIBLE TRENCH STABILISATION WITH TERRAM LAYER/DE-WATERING MAY BE REQUIRED. CONTRACTOR TO NOTIFY FAIRHURST ENGINEER IMMEDIATELY.
 - ALL PIPES WITH LESS THAN 1200mm OF COVER TO CROWN TO HAVE A CONCRETE SURROUND WITH EXPANSION JOINTS.
 - ATTENUATION/DISCHARGE FIGURE SUBJECT TO WATER AUTHORITY ACCEPTANCE.
 - DRAINAGE CONNECTIONS FW/SW SUBJECT TO S106 AGREEMENT.
 - PRECAST CONCRETE ATTENUATION TANK PREFERRED, CONTRACTOR TO ADVISE. TANK MUST BE DESIGNED, DETAILED & INSTALLED BY CONTRACTORS CHOSEN SUPPLIER.
 - RWP POSITIONS ARE TAKEN FROM DETAILS BY FUTURESERV.
 - ALL NEW DRAINAGE TO BE CCTV'D, CLEANED OF ALL CONSTRUCTION DEBRIS AND COPY SENT TO FAIRHURST FOR AS BUILT PURPOSES.
 - ALL GULLYS & DRAINAGE CHANNELS WITHIN CAR PARK AND PEDESTRIAN AREAS TO BE FITTED WITH 'HEELGUARD' TYPE COVERS.
 - ABOVE GROUND RODDING ACCESS TO BE PROVIDED ON ALL S.V.P'S, S.S'S & ALL OTHER FOUL CONNECTIONS.
 - ALL MANHOLES LOCATED WITHIN THE BUILDING MUST BE FITTED WITH TRIPLE SEALED LOCKING MANHOLE COVERS & FRAMES FITTED STRICTLY IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 - REFER TO FUTURESERV DRAWINGS FOR SUSPENDED DRAINAGE LAYOUT & DETAILS.
 - ALL INTERNAL & EXTERNAL MANHOLE COVERS TO BE POSITIONED SO THAT THEY ARE PARALLEL TO WALL LINES

KEY:-

- PROPOSED FOUL SEWER
- PROPOSED SURFACE WATER SEWER
- PROPOSED COMBINED SEWER
- EXISTING PUBLIC COMBINED SEWER
- PROPOSED CHANNEL DRAIN
- PROPOSED GULLY
- PROPOSED ATTENUATION TANK
- PROPOSED SURFACE WATER SEWER SERVING GROUND FLOOR
- PROPOSED RAIN WATER PIPE LOCATION TAKEN FROM FUTURESERV DETAILS
- PROPOSED FOUL SEWER SERVING GROUND FLOOR
- PROPOSED FOUL RISING MAIN SERVING BASEMENT DRAINAGE

- NOTES:-
- A. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWINGS (+ ALL OTHER RELEVANT DRAWINGS)
- 143404/2002, 2014, 2015, 2016 & 2017 - SHOWING DRAINAGE DETAILS.
 - 143404/2003 - SHOWING BLOCK 1NQ BASEMENT DRAINAGE
 - 143404/2004 - SHOWING CLEMENTS BUILDING BASEMENT DRAINAGE
 - 143404/2005 - SHOWING BLOCK 1NQ GROUND FLOOR DRAINAGE
 - 143404/2006 - SHOWING CLEMENTS BUILDING FLOOR DRAINAGE

Do not scale from this drawing.

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DESIGN ASSESSMENT FORM NO. 143404-QEMS1

CONSTRUCTION

- RESTRICTED SITE/CONFINED SPACES
- GROUND WATER/INUNDATION

DEMOLITION

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

Document Number
143404-FAI-EX-EX-DR-D-02001

Revision
C05

Issued for Construction

Ms Fatima Asim - United Living
Mar 27, 2025, 9:48 AM GMT+0:00

C05	14/03/25	SPECIFICATION OF CHANNEL DRAINS ADDED. FMH3 REMOVED TO AVOID LOW LEVEL WALL RODDING EYE. SLOW RADIUS BEND & 90 DEGREE SQUARE JUNCTION ADDED ACCORDINGLY.	DAS	JRT	JRT
C04	05/11/24	NOTE ADDED "SW CONNECTION SERVING REDUNDANT RWP TO BE ABANDONED (GROUTED SOLID)" FOLLOWING RELOCATION OF BUILDING LINE. SOURCE: SMS YARD.	DAS	JRT	JRT
C03	24/06/24	MHS49 UPDATED TO BE A CATCHPIT TO ALLOW FOR REQUIRED CONNECTION LEVEL OF INTERNAL SUSPENDED DRAINAGE.	DAS	JRT	JRT
C02	08/05/24	NOTE 22 ADDED. FMH10, FMH11, FMH12 & CWH2 REPOSITIONED TO AVOID CLASH WITH S278 BOUNDARY. FMH9 REPOSITIONED. FMH10A & FOUL RUN ADDED TO AVOID DRAINAGE CLASH WITH CRANE BASE.	DAS	JRT	JRT
C01	21/03/24	CLIENT UPDATED. NOTES 9, 16 & 20 AMENDED. NOTE 21 ADDED. DRAINAGE UPDATED TO SUIT FUTURESERV DETAILS.	DAS	JRT	JRT
D	20/02/24	UPDATED TO SUIT LATEST BUILDING LAYOUT / M & E DETAILS	DAS	CMM	JRT
C	08/01/24	UPDATED TO SUIT ARCHITECTS LATEST LAYOUTS. DRAINAGE CONNECTION POINTS UPDATED TO SUIT FUTURESERV DETAILS.	DAS	JRT	JRT
B	07/09/23	UPDATED TO SUIT ARCHITECTS LATEST LAYOUTS. DRAINAGE CONNECTION POINTS UPDATED TO SUIT CMC LATEST DETAILS.	DAS	JRT	JRT
A	16/06/23	BLOCK 1NQ UPDATED TO SUIT ARCHITECTS LATEST LAYOUT.	DAS	JRT	JRT
Rev.	Date	Description	Drwn.	Chkd.	Appd.

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Project Title:
**1 NQ & CLEMENTS BUILDING
TARIFF STREET
MANCHESTER**

Drawing Title:
**PROPOSED EXTERNAL
DRAINAGE LAYOUT**

Scale of A1: 1:200	Status: Construction	
Drawn: DS	Checked: JRT	Approved: JRT
Date: 31/05/23	Date: 08/01/24	Date: 08/01/24

Drawing No.:
143404-FAI-EX-EX-DR-D-02001-C05