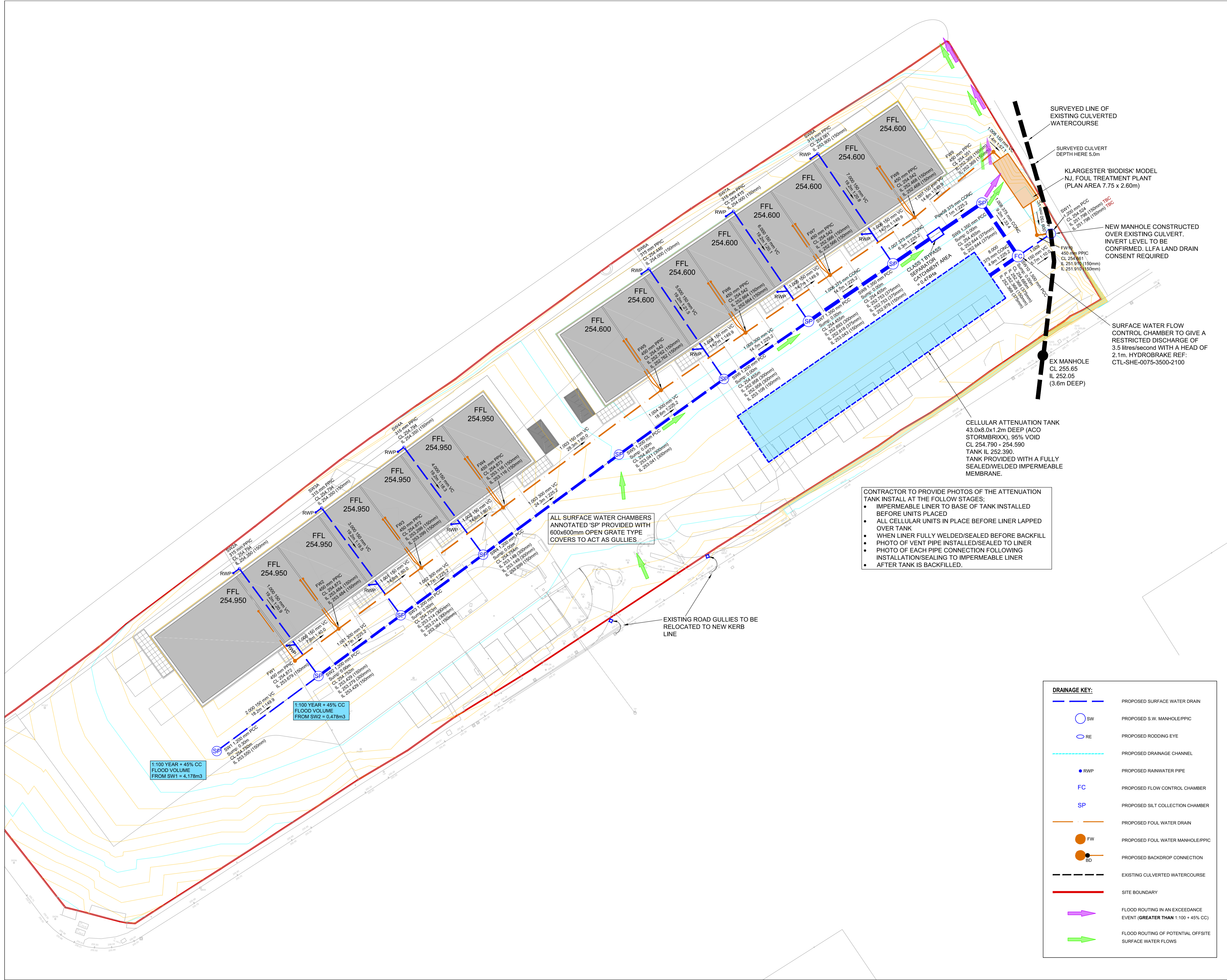


This drawing should not be scaled. Dimensions to be verified on site. Any discrepancies should be referred to the Engineer prior to work commencing.

NOTES

GENERAL NOTES

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT HJCE, ARCHITECTS AND M&E ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DRAWING NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE REPORTED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
- EXISTING GROUND LEVELS BASED ON A TOPOGRAPHICAL SURVEY BY MET SURVEYS LTD DATED OCTOBER 2020.
- PLOT BOUNDARIES, BUILDING AND EXTERNAL WORKS FOOTPRINTS SHOWN ON THIS DRAWING ARE INDICATIVE ONLY, BASED ON THE LATEST MASTERPLAN DRAWING.
- ALL DRAINAGE CHANNELS SHALL BE PROVIDED WITH A RODDABLE ACCESS COVER AT THE UPSTREAM END AND AN OUTFALL UNIT WITH SILT COLLECTION. LOAD CLASS AS INDICATED ON PLAN. CHANNELS INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
- FULL RETENTION/BYPASS SEPARATORS TO BE PROVIDED WITH OIL LEVELS MONITORS AND VISUAL ALARMS.
- CELLULAR ATTENUATION STRUCTURAL DESIGN
 - THE MANUFACTURER SHALL PROVIDE STRUCTURAL CALCULATIONS IN ACCORDANCE WITH CIRIA DOCUMENT C680 (SITE USE = LOW SPEED ROADS <15mph), INCLUDING LATERAL LOADS. DESIGNED FOR THE MAXIMUM AND MINIMUM DEPTHS OF COVER. DESIGNER TO NOTE RACKING IN GARDEN CENTRE OVER TANK.
 - MAXIMUM DEPTH OF COVER = 1200mm
MINIMUM DEPTH OF COVER = 1000mm
 - FACTOR OF SAFETY (F.O.S) FOR MATERIALS = 2.75, UNLESS SUBSTANTIATED BY THE SUPPLIER IN WHICH A F.O.S OF 1.5 MAY BE APPROPRIATE.
 - THE DESIGN LIFE OF THE ATTENUATION SYSTEM SHALL BE 50 YEARS. THE MANUFACTURER SHALL ADVISE OF ANY ONGOING MAINTENANCE
- THE CONTRACTOR SHALL PROVIDE SITE SPECIFIC DRAWINGS FOR THE CELLULAR TANK FOR HJCE APPROVAL PRIOR TO MANUFACTURE.
- THE ATTENUATION TANKS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS.
- CONSIDERATION SHALL BE GIVEN TO THE INSTALLATION PROGRAMME FOR THE ATTENUATION TANK AS CONSTRUCTION PLANT TRAFFICKING OVER THE TANKS MAY BE LIMITED. TANK MANUFACTURER TO ADVISE OF CONSTRUCTION TRAFFIC LIMITS OVER ATTENUATION TANK FOLLOWING INSTALLATION.
- NO SITE RUN-OFF SHOULD BE PASSED THROUGH THE CELLULAR ATTENUATION TANK FOLLOWING INSTALLATION.
- FULL RETENTION SEPARATORS TO BE PROVIDED WITH OIL LEVEL MONITOR & ALARMS.



DRAINAGE KEY:

- PROPOSED SURFACE WATER DRAIN
- SW PROPOSED S.W. MANHOLE/PPIC
- RE PROPOSED RODDING EYE
- PROPOSED DRAINAGE CHANNEL
- RWP PROPOSED RAINWATER PIPE
- FC PROPOSED FLOW CONTROL CHAMBER
- SP PROPOSED SILT COLLECTION CHAMBER
- PROPOSED FOUL WATER DRAIN
- FW PROPOSED FOUL WATER MANHOLE/PPIC
- BD PROPOSED BACKDROP CONNECTION
- EXISTING CULVERTED WATERCOURSE
- SITE BOUNDARY
- FLOOD ROUTING IN AN EXCEEDANCE EVENT (GREATER THAN 1:100 + 45% CC)
- FLOOD ROUTING OF POTENTIAL OFFSITE SURFACE WATER FLOWS

CONTRACTOR TO PROVIDE PHOTOS OF THE ATTENUATION TANK INSTALL AT THE FOLLOW STAGES:

- IMPERMEABLE LINER TO BASE OF TANK INSTALLED BEFORE UNITS PLACED
- ALL CELLULAR UNITS IN PLACE BEFORE LINER LAPPED OVER TANK
- WHEN LINER FULLY WELDED/SEALED BEFORE BACKFILL
- PHOTO OF VENT PIPE INSTALLED/SEALED TO LINER
- PHOTO OF EACH PIPE CONNECTION FOLLOWING INSTALLATION/SEALING TO IMPERMEABLE LINER
- AFTER TANK IS BACKFILLED.

ALL SURFACE WATER CHAMBERS ANNOTATED 'SP' PROVIDED WITH 600x600mm OPEN GRATE TYPE COVERS TO ACT AS GULLIES

EXISTING ROAD GULLIES TO BE RELOCATED TO NEW KERB LINE

1:100 YEAR + 45% CC FLOOD VOLUME FROM SW1 = 4.178m³

1:100 YEAR + 45% CC FLOOD VOLUME FROM SW2 = 0.478m³

REV	DATE	DESCRIPTION	BY
P03	11.10.24	FOUL TREATMENT PLAN DETAILS ADDED	AF
P02	28.08.24	UPDATED TO SUIT LATEST SITE PLAN	AF

PROJECT
WAPPY SPRINGS HUDDERSFIELD

TITLE
DRAINAGE LAYOUT

CLIENT
FRANK MARSHALL ESTATES

HOLLOWAY JENNINGS
Consulting Civil & Structural Engineers
CONNAUGHT HOUSE, PARK VIEW, LOFTHOUSE
WAKEFIELD, WF3 3HA
T 01924 824 433
admin@hjcce.co.uk www.hjcce.co.uk

STATUS
PRELIMINARY

DESIGNED BY	CHECKED BY	HJCE REF.
AMF	MH	7270
DRAWN BY	DATE	SCALES @ A1
AMF	08.08.24	1:250

PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER	REVISION
7270-HJCE-XX-XX-DR-C-3000	P03