

NOTE: DRAINAGE DESIGN IS SUBJECT TO LLFA AND IDB APPROVAL.

NOTE: CONTRACTOR TO ALLOW FOR GPR SURVEY TO ASCERTAIN LOCATIONS OF ALL EXISTING SERVICES BEFORE ANY EXCAVATIONS ARE TO BE UNDERTAKEN.

NOTE: SETTING OUT OF PROPOSED WORKSHOP BUILDING TO BE CONFIRMED BY ARCHITECT.

NOTE: FINISHED FLOOR LEVELS (FFL) ARE PRELIMINARY. ALL FINISHED FLOOR LEVELS TO BE CONFIRMED BY ARCHITECT.

NOTE: SETTING OUT OF PROPOSED SVPS AND RWPS TO BE CONFIRMED BY ARCHITECT.

NOTE: TOPOGRAPHIC INFORMATION IS BASED ON LIDAR DATA.

NOTE: DRAINAGE DESIGN TO BE REVIEWED AGAINST CLIENT'S EXTERNAL WORKS DRAWINGS.

- NOTES:**
- THESE NOTES ARE INTENDED TO AUGMENT DRAWINGS AND SPECIFICATIONS. WHERE CONFLICT OF REQUIREMENTS EXIST THE ORDER OF PRECEDENCE SHALL BE AS SHOWN IN THE SPECIFICATION. OTHERWISE THE STRICTEST PROVISION SHALL GOVERN.
 - THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ENGINEERS AND ARCHITECTS DRAWINGS.
 - DRAWINGS NOT TO BE SCALED. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR. ANY DISCREPANCIES TO BE NOTIFIED TO THE ENGINEER AND FURTHER INSTRUCTIONS OBTAINED BEFORE WORK IS COMMENCED.
 - THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE BUILDING IS FULLY COMPLETED. IT IS THE CONTRACTORS SOLE RESPONSIBILITY TO DETERMINE THE ERECTION PROCEDURE AND SEQUENCE AND ENSURE THAT THE BUILDING AND ITS COMPONENTS ARE SAFE DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER TEMPORARY BRACING, GUYS OR TIE-DOWNS WHICH MAY BE NECESSARY. SUCH MATERIAL REMAINING THE PROPERTY OF THE CONTRACTOR ON COMPLETION, AND FOR ENSURING THAT THE WORKS AND ANY ADJACENT PROPERTIES ARE SAFE IN THE TEMPORARY CONDITION.
- DRAINAGE**
- DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING STANDARDS:
 - BS EN 1222018
 - BUILDING REGULATIONS APPROVED DOCUMENT PART H, 2015 EDITION
 - ALL COMPONENTS USED IN DRAINAGE SYSTEMS TO COMPLY WITH THE FOLLOWING: BS EN 4762011
 - ALL DRAINAGE SYSTEMS AND COMPONENTS TO BE CONSTRUCTED AND TESTED TO THE FULL SATISFACTION OF BOTH BUILDING REGULATIONS AND WARRANTY PROVIDER INSPECTORS
 - ALL DRAINAGE TO BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH BS EN 16102015.
 - V.C. DENOTES VITRIFIED CLAY, VITRIFIED CLAY PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 854:2013, 2015, 2016 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE EXTRA STRENGTH TO BS 65 OR EXTRA STRENGTH BS EN 854 PIPE CRUSHING STRENGTH.
 - LATERAL DRAIN CONNECTIONS (PIPES CONNECTING INTO ADOPTABLE SEWERS) TO BE VITRIFIED CLAY. WHERE COVER IS LESS THAN 1.2m TO GROUND LEVEL PIPE PROTECTION IS REQUIRED IN THE FORM OF A CONCRETE COVER SLAB.
 - PVC-U DENOTES UNPLASTICISED POLYVINYL CHLORIDE. PVC-U PIPES AND FITTINGS TO COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 1401: BS EN 13476-2 AND BS 6660:19892000 RESPECTIVELY AND BE KITEMARKED.
 - PRECAST CONCRETE MANHOLES TO BE IN ACCORDANCE WITH BS EN 19172002 AND BS 691132014, 2002 AND TO BE KITEMARKED. PRECAST CONCRETE RINGS AND COVER SLABS TO CONCRETE PIPES TO BE JOINTED WITH CEMENT MORTAR UNLESS NOTED OTHERWISE.
 - INSITU AND PRECAST CONCRETE UNITS SHALL HAVE SULPHATE RESISTING PORTLAND CEMENT TO BS EN 197-12011.
 - POLYPROPYLENE INSPECTION CHAMBERS TO COMPLY WITH BS EN 13588-12010, 22016 AND BS 71582001 AND TO BE KITEMARKED.
 - MANHOLE COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 62015. MANHOLE COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS. ALL COVERS TO BE BAGGED 'TWO' OR 'THREE' AS APPROPRIATE. MANHOLE COVER SLABS AND ACCESS TO BE IN ACCORDANCE WITH CONCRETE PIPE ASSOCIATION TECHNICAL BULLETIN ISSUED SEPTEMBER 2001.
 - POLYPROPYLENE INSPECTION CHAMBER COVERS AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 62015. COVERS AND FRAMES TO BE OF A NON-ROCKING DESIGN WITH CUSHION INSERTS AND KITEMARKED. LOAD CLASS A15 COVERS TO BE USED IN AREAS INACCESSIBLE TO VEHICLES; LOAD CLASS B125 COVERS TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 COVERS TO BE USED IN PRIVATE ROADS.
 - ROAD GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 62015 AND BE OF A NON-ROCKING DESIGN WITH LEFT HANDED CAPTIVE HINGE GRATES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124-1 TO 62015 AND BE KITEMARKED. LOAD CLASS B125 GRATES TO BE USED IN PRIVATE DRIVES; LOAD CLASS D400 GRATES TO BE USED IN PRIVATE ROADS. SLUMP UNIT AND SILT BUCKET UNITS TO BE USED ON ALL GULLIES.
 - CLASS 2 BEDDING DETAIL SHALL BE PROVIDED:
 - WHERE COVER TO PIPE BARREL IS:
 - < 1.2m IN VEHICULAR TRAFFICKED AREAS
 - < 0.9m IN AREAS INACCESSIBLE TO VEHICLES
 - AT ALL ROAD GULLY, YARD GULLY, RWP, SWP AND DRAINAGE CHANNEL BRANCHES.
 - AREAS OF DEEP ROOTING VEGETATION.
 - PIPE RUNS NEAR BUILDINGS IN ACCORDANCE WITH TYPICAL SECTIONS ON AWP DRAWINGS.
 - WHERE TWO PIPES CROSS WITH A CLEAR GAP OF < 300mm, CLASS 2 SURROUND TO EXTEND A MINIMUM OF 1.0m FROM THE CENTRE OF THE CROSSING POINT & EXTENDED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT, WHERE REQUIRED.
 - NO MECHANICAL COMPACTION OF FILL MATERIAL WITHIN 300mm OF THE CROWN OF ANY PIPE.

HEALTH & SAFETY RISKS

IN ADDITION TO THE STANDARD HAZARDS AND RISKS NORMALLY ASSOCIATED WITH THE TYPE OF WORK DETAILED ON THIS DRAWING, PLEASE NOTE THE FOLLOWING RESIDUAL HEALTH AND SAFETY RISKS

CONSTRUCTION RISKS

CR01. SERVICES ASSOCIATED WITH PREVIOUS USE

EXISTING SERVICES PRESENT WITHIN THE CONSTRUCTION SITE. M&E CONSULTANT TO ADVISE ON STATUS (LIVE OR DEAD) OF ABOVE AND BELOW GROUND SERVICES. EXCAVATIONS TO BE COMPLY WITH HSE47 (AVOIDING DANGER FROM UNDERGROUND SERVICES). CONTRACTOR TO OBTAIN PERMIT TO DIG, UNDERTAKE TRIAL HOLES AND CAT SCAN OF WORK SITE PRIOR TO EXCAVATION. HAND DIG WHERE NECESSARY. LIVE SERVICES TO BE DIVERTED AND/OR PROTECTED WHERE THEY ARE TO REMAIN AND BE BUILT INTO THE PROPOSED WORKS. CARE TO BE TAKEN WHILST WORKING AROUND LIVE SERVICES.

CR02. EXCAVATION SUPPORT AND TEMPORARY WORKS

GROUND INVESTIGATIONS UNDERTAKEN IDENTIFY POTENTIALLY UNSTABLE GROUND AND HIGH GROUND WATER LEVELS. DUE TO THE NATURE OF THE GROUND, EXCAVATIONS WILL REQUIRE TEMPORARY SUPPORT AND EDGE PROTECTION. CONTRACTOR TO UTILISE APPROPRIATE TEMPORARY WORKS, DESIGNED BY A TEMPORARY WORKS DESIGNER, AS NECESSARY TO ENSURE THE SAFETY OF ALL OPERATIVES.

CR03. DEEP EXCAVATIONS

NO PERSON TO ENTER ANY UNSUPPORTED EXCAVATION DEEPER THAN 1.20m OR LESS IF GROUND IS UNSTABLE.

CR04. CONTAMINATED GROUND

UNFORESEEN POTENTIAL BURIED HAZARDOUS MATERIALS AND SUBSTANCES INCLUDING ASBESTOS. SIMILAR MATERIALS MAY BE PRESENT IN EXISTING STRUCTURE TO BE DEMOLISHED. CONTRACTOR TO MAKE ALLOWANCE FOR REMOVAL OF SUCH SUBSTANCES.

CR05. CONSTRUCTION ADJACENT TO PUBLIC HIGHWAY

SITE SITUATED NEXT TO PUBLIC HIGHWAY AND FOOTPATH WHICH WILL REMAIN IN USE DURING CONSTRUCTION. CONTRACTOR TO ENSURE EXCAVATION AND SITE ARE MADE SECURE SO ACCESS CAN NOT BE ACHIEVED.

OPERATION & MAINTENANCE RISKS

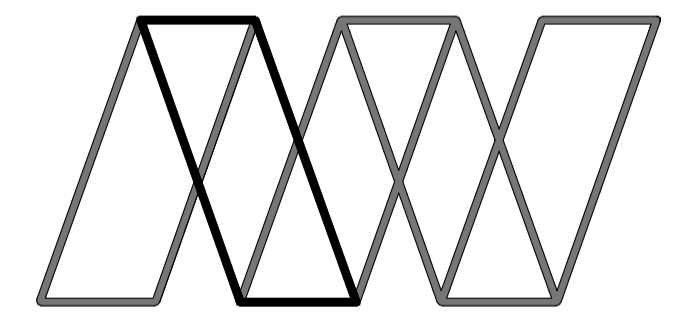
THERE ARE NO UNUSUAL / ONEROUS RESIDUAL HAZARDS ASSOCIATED WITH THE OPERATION AND MAINTENANCE OF THE WORKS HIGHLIGHTED ON THIS DRAWINGS WHICH A COMPETENT USER / MAINTAINER WOULD NOT ORDINARILY BE REASONABLY AWARE OF.

DEMOLITION RISKS

THERE ARE NO UNUSUAL / ONEROUS RESIDUAL HAZARDS ASSOCIATED WITH THE DEMOLITION OF THE WORKS HIGHLIGHTED ON THIS DRAWINGS WHICH A COMPETENT DEMOLITION CONTRACTOR WOULD NOT ORDINARILY BE REASONABLY AWARE OF.

IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING IN ACCORDANCE WITH THE REQUIREMENTS DEFINED IN THE CDM REGULATIONS.

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Project:	We Jar It Ltd, Wheldrale, York		
Client:	Mercer Foods Ltd.		
Drawing:	Proposed Drainage Plan		
Role:	Civil Engineer		
Drawing Status:	Work In Progress	Suitability Code:	S1
Job. no.	49768	Scale@ A1:	As Noted
Project Originator	Zone	Level	Type
WJI - AWP - ZZ - XX - D - C - 3300			