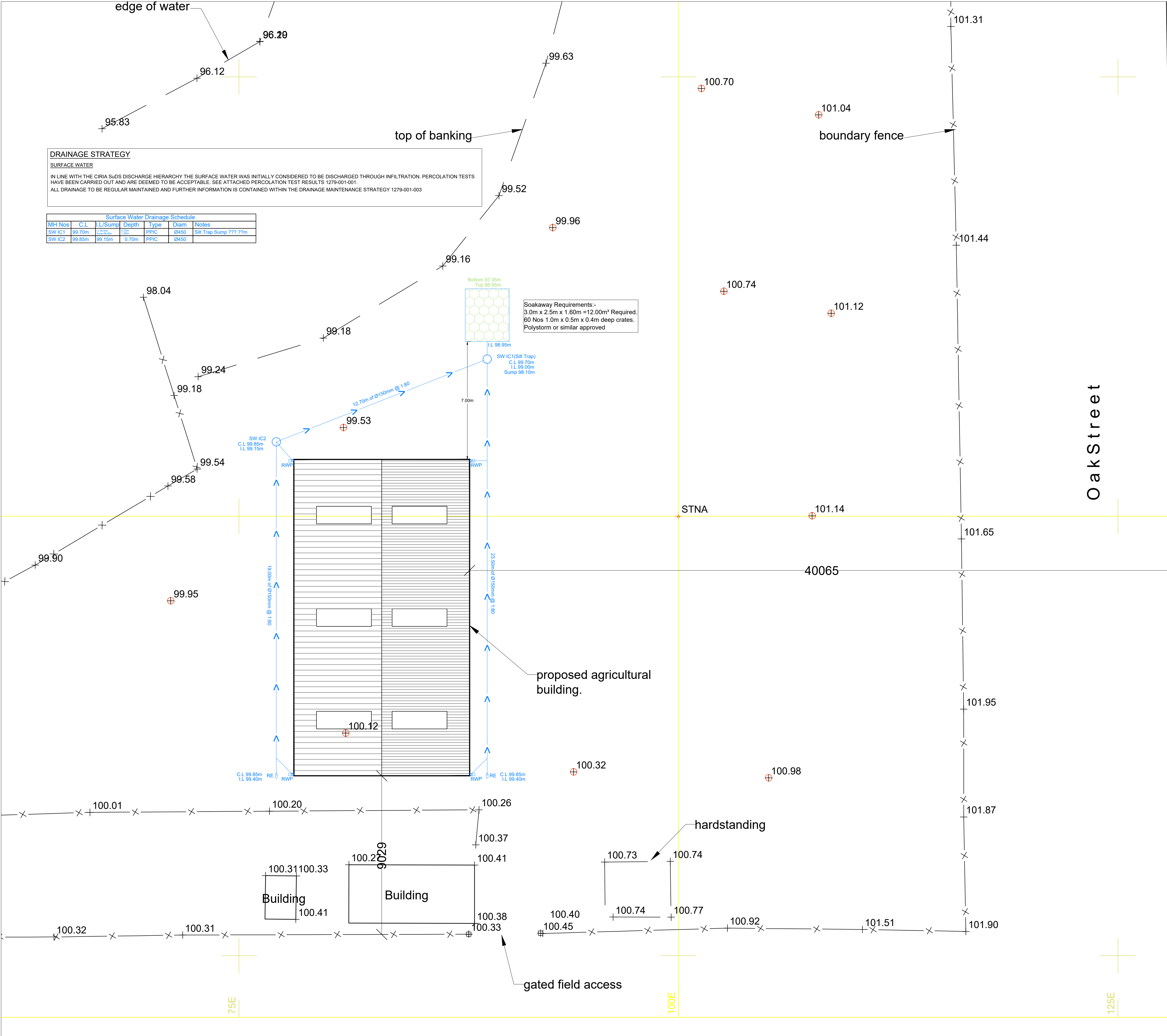




DRAINAGE STRATEGY
SURFACE WATER
IN LINE WITH THE CIRIA SuDS DISCHARGE HIERARCHY THE SURFACE WATER WAS INITIALLY CONSIDERED TO BE DISCHARGED THROUGH INFILTRATION. PERCOLATION TESTS HAVE BEEN CARRIED OUT AND ARE DEEMED TO BE ACCEPTABLE. SEE ATTACHED PERCOLATION TEST RESULTS 1279-001-001.
ALL DRAINAGE TO BE REGULAR MAINTAINED AND FURTHER INFORMATION IS CONTAINED WITHIN THE DRAINAGE MAINTENANCE STRATEGY 1279-001-003

Surface Water Drainage Schedule						
MH Nos	C.L	L/Sump	Depth	Type	Diam	Notes
SW IC1	99.70m	1.00m	0.70m	PPIC	Ø450	Silt Trap Sump ??? 77m
SW IC2	99.85m	0.15m	0.70m	PPIC	Ø450	

Soakaway Requirements:-
3.0m x 2.5m x 1.60m =12.00m³ Required.
60 Nos 1.0m x 0.5m x 0.4m deep crates.
Polystorm or similar approved

- NOTES
- DO NOT SCALE
1.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT SSS, ARCHITECTS AND M&E CONSULTANTS DRAWINGS AND PROJECT SPECIFICATIONS.
2.

ALL BUILDING DRAINAGE WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH BS EN 752 DRAINAGE AND SEWER SYSTEMS OUTSIDE BUILDING, THE CURRENT BUILDING REGULATIONS AND THE LOCAL AUTHORITY BUILDING CONTROL SPECIFICATIONS AND REQUIREMENTS.
3.

ANY DRAINAGE AS DESIGNATED OUTSIDE OF THE SITE TO BE PUT FORWARD FOR ADOPTION SHALL BE CONSTRUCTED TO SEWERS FOR ADOPTION 6th EDITION AND ANY SPECIFIC REQUIREMENTS OF THE ADOPTING AUTHORITY.
4.

ALL IN-SITU AND PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 504 AND BS EN 1917:2002 AND BE KITEMARKED. CONCRETE PIPES TO BE CLASS 120 UNLESS NOTED OTHERWISE AND COMPLY WITH THE REQUIREMENTS OF NOTE 4 ABOVE.
5.

PRECAST CONCRETE PRODUCTS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BS EN 1916:2002, AND BS EN 1917:2002 AND BE KITEMARKED. CONCRETE PIPES TO BE CLASS 120 UNLESS NOTED OTHERWISE AND COMPLY WITH THE REQUIREMENTS OF NOTE 4 ABOVE.
6.

VITRIFIED CLAY PIPES AND FITTINGS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 252 AND BS 65 RESPECTIVELY AND BE KITEMARKED. ALL PIPES SHALL BE CLASS 120 TO BS EN 252.
7.

ALL PLASTIC PIPES AND FITTINGS UP TO AND INCLUDING 110mm DIA. SHOULD BE PVC-U OSMADRAIN WITH FLEXIBLE JOINTS AND SMOOTH BORE TO BS 4680 AND BS EN 1401 AND BE KITEMARKED (FOR FW & SW USE). 160mm, 225mm AND 300mm DIA PIPE SHOULD BE ULTRARIB PVC-U TO WIS4-35-01 SPECIFICATIONS WITH FLEXIBLE JOINTS AND SMOOTH BORE. PIPES SHOULD BE WATER INDUSTRY CERTIFIED AND KITEMARKED (FOR FW & SW USE) PLASTIC PIPES LARGER THAN 300mm DIA AND UP TO 600mm DIA SHOULD BE THERMOPLASTIC STRUCTURED WALL PIPES (TWIN WALL) TO WIS4-35-01 SPECIFICATION AND BE KITEMARKED. (FOR SURFACE WATER USE ONLY).
8.

GULLY GRATES AND FRAMES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF BS EN 124 AND BE OF NON-ROCKING DESIGN WITH CAPTIVE HINGE ACCESS AND BE KITEMARKED. LOAD CLASS D400 IN INDUSTRIAL ESTATE ROADS AND AREAS CARRYING REGULAR HEAVY TRAFFIC AND LOAD CLASS C250 IN ESTATE ROADS AND CAR PARKING AREAS. IN ALL ROAD LOCATIONS, THE GRATE SHALL BE HINGED ON THE SIDE OF THE TRAFFIC DIRECTION (LEFT HAND OPENING).
9.

ALL EXTERNAL PIPEWORK TO BE LAID WITH A CLASS 'S' PIPE BEDDING DETAIL WITH 1.2M MINIMUM COVER TO THE PIPE BARREL UNDER VEHICULAR TRAFFICKED AREAS, 0.9m COVER UNDER FIELDS AND 0.6m COVER UNDER FOOTWAYS AND GARDENS, UNLESS OTHERWISE NOTED ON THE DRAWING WHERE COVER IS LESS THAN THAT STATED ABOVE, A CLASS 'Z' PIPE BEDDING DETAIL SHALL BE USED.
10.

WHERE CONCRETE PROTECTION IS REQUIRED TO PIPEWORK, THE CONCRETE SHALL BE DISCONTINUED AT EACH PIPE JOINT OVER THE FULL CROSS SECTION OF THE CONCRETE BY MEANS OF A SHAPED COMPRESSIBLE FILLER.
11.

WHERE TWO PIPELINES CROSS WITH LESS THAN 300mm BETWEEN PIPES, EACH PIPE SHOULD BE SURROUNDED WITH A FULL CONCRETE BED AND SURROUND (CLASS 'Z' DETAIL) FOR NOT LESS THAN 1m CENTERED ON THE CROSSING AND EXTENDED AS REQUIRED TO WITHIN 150mm OF THE NEAREST FLEXIBLE JOINT.
12.

NO MECHANICAL COMPACTION OF FILL MATERIAL SHALL BE PERMITTED WITHIN 300mm ABOVE THE BARREL/CROWN OF THE PIPE.
13.

UNDER TRAFFICKED AREAS BACKFILL ABOVE THE PIPE BEDDING MATERIAL SHALL BE IMPORTED HARD CLEAN GRANULAR MATERIAL UP TO FORMATION LEVEL (I.E. CRUSHED ROCK) ALL CRUSHED ROCK TO BE USED IN BACKFILL SHALL MEET THE FOLLOWING GRADING:-

125mm SIEVE 100% PASSING
100mm SIEVE 85-100% PASSING
37.5mm SIEVE 0-10% PASSING
14.

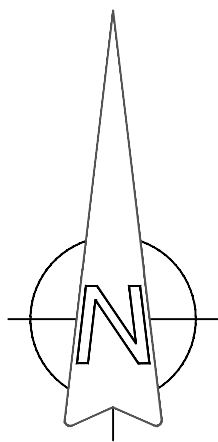
IMPORTED GRANULAR BACKFILL MATERIAL SHALL BE PLACED IN LAYERS NOT EXCEEDING 225mm (LAYER THICKNESS TO BE DETERMINED BY THE CONTRACTOR TO SUIT COMPACTION PLANT, NUMBER OF PASSES, MATERIAL CLASSIFICATION AND LAYER THICKNESS ETC). EACH LAYER IS TO BE COMPACTED TO FORM A STABLE TRENCH BACKFILL.
15.

UNDER LANDSCAPING AREAS BACKFILL ABOVE THE PIPE BEDDING MATERIAL SHALL BE SUITABLY SELECTED MATERIAL CONSISTING OF UNIFORM SOIL FREE FROM STONES LARGER THAN 40mm, CLAY LUMPS LARGER THAN 75mm, TREE ROOTS, ORGANIC MATTER AND FROZEN SOIL. BACKFILL MATERIAL IS TO BE PLACED IN LAYERS NOT EXCEEDING 150mm THICKNESS. SHOULD THE EXCAVATED MATERIAL BE UNSUITABLE OR WEATHER CONDITIONS AFFECT THE MATERIALS STABILITY, THEN A SUITABLE HARD GRANULAR MATERIAL SHALL BE USED UP TO FORMATION LEVEL. REFER TO NOTE 13.

0		MH	-
0		MH	-
0		MH	-
REV		BY	DATE

Status: Drawing Issue

Notes: Positions & levels related to OSTN15/OSGM15 (unless stated otherwise)



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Survey Site Solutions Ltd

Land, Measured & Volumes Surveys
Site Setting Out & Site Engineering

Title: Proposed Drainage Design

Site: Oak Street, Littleborough

Client: Dan Taylor

Scale: 1:100 @A1	Date: 17/09/20	Drawn: MH	Checked: MH
Project No: 1279	Drawing No: 1279 001 001	Sheet: 1 of 1	