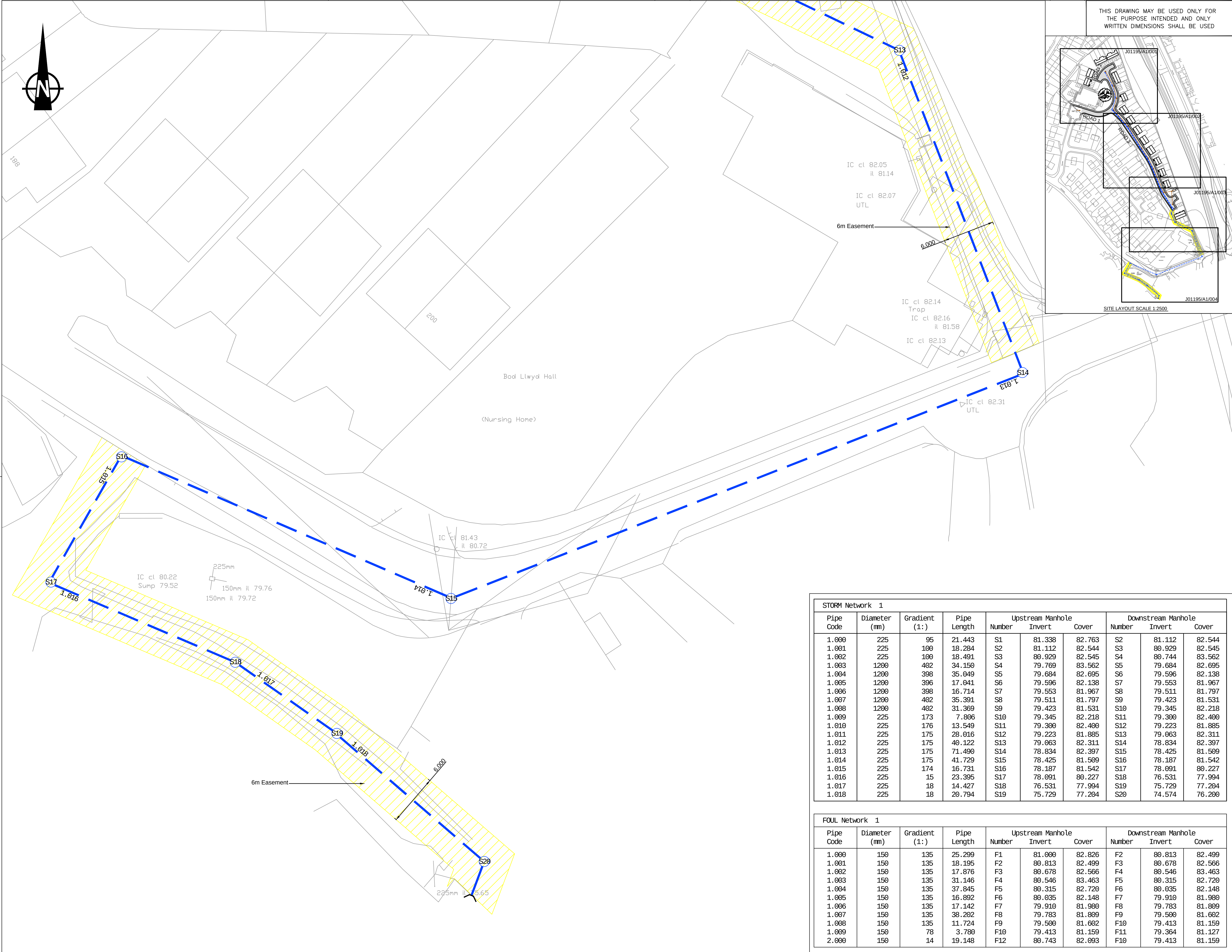




THIS DRAWING MAY BE USED ONLY FOR THE PURPOSE INTENDED AND ONLY WRITTEN DIMENSIONS SHALL BE USED

ENGINEERING NOTES
ADAPTABLE HIGHWAY WORKS
ROADS AND FOOTPATHS FORMING PART OF THE PUBLIC HIGHWAY TO BE ADOPTED UNDER SECTION 38 OF THE HIGHWAYS ACT 1980 AND SHOULD COMPLY WITH THE WREXHAM COUNCIL RESIDENTIAL DESIGN GUIDE.
HAND LAYING OF BITUMINOUS MATERIAL IS NOT PERMITTED ON CARRIAGEWAYS.
STREET LIGHTING
ON COMPLETION, AS A REQUIREMENT OF BS 5405 AND THE IEE WIRING REGULATIONS 16TH EDITION A COMPLETION CERTIFICATE IN THE FORM SET OUT IN APPENDIX 6 OF THE BRITISH STANDARDS SHALL BE PROVIDED TO THE COUNCIL. ALTERNATIVELY A CERTIFICATE MAY BE ADAPTED FROM THE BS 7671 FOR THE USE IN STREET LIGHTING.
INSTALLATION GIVEN IN THE ILE CODE OF PRACTICE FOR ELECTRICAL SAFETY IN PUBLIC LIGHTING OPERATIONS.
SPECIFIC REQUIREMENTS
1. ALL STREET LIGHTING TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH WREXHAM COUNCIL STREET LIGHTING DESIGN SPECIFICATION.
2. THE DEVELOPER SHALL BE RESPONSIBLE FOR LIAISON WITH THE STATUTORY UNDERTAKERS AND OTHER CABLE SERVICE COMPANIES FOR THE PROVISION OF ALL REQUIRED SERVICES.
3. THE DEVELOPER SHALL TAKE CBR TEST AT ROAD FORMATION LEVEL AND RESULTS TO BE MADE AVAILABLE TO THE HIGHWAY ENGINEER FOR HIS APPROVAL.
4. SAFE PASSAGE FOR PEDESTRIANS SHALL BE MAINTAINED AT ALL TIME DURING THE CONSTRUCTION PERIOD.
5. ALL TRENCH BACKFILL SHALL BE GRANULAR SUB BASE TYPE 1 OR TYPE II
6. A MINIMUM TOTAL CARRIAGEWAY CONSTRUCTION THICKNESS SHALL NOT BE LESS THAN 400MM CBR RATIO LESS THAN THIS WILL BE MADE UP WITH A 6F2 CAPPING LAYER.
7. TRAFFIC SIGNS AND HIGHWAY MARKINGS REQUIRED AT JUNCTIONS AND AREAS TO BE IN ACCORDANCE WITH THE TRAFFIC SIGNS REGULATIONS AND GENERAL DIRECTIONS 2002, DEPARTMENT OF TRANSPORT AND LOCAL AUTHORITY SPECIFICATION.
8. BRICKWORK TO ALL STRUCTURAL APPLICATIONS TO BE SOLID ENGINEERING BRICKS. (IE. NO VOIDS, CAVITIES OR PERFORATIONS)
9. THE AGGREGATE IN ANY TEMPORARY RUNNING SURFACE EG: ROADBASE, BASECOURSE OR REGULATING COURSE WHICH IS TO RECEIVE TRAFFIC FOR MORE THAN 3 DAYS SHALL HAVE A MINIMUM PSV OF 60.
10. ALL HIGHWAY DRAINS TO BE TESTED IN ACCORDANCE WITH NORTH YORKSHIRE COUNCIL'S TESTING PROCEDURES.
11. ANY SOFT SPOTS AT UNDERSIDE OF CAPPING LAYER TO BE TREATED BY OVERDIGGING AND REPLACEMENT WITH AN APPROVED COMPACTED GRANULAR MATERIAL.
12. THE FORMATION OF ROADS AND FOOTWAYS SHALL BE PREPARED BY REMOVING ALL UNSUITABLE MATERIAL AND AN APPROVED WEEDKILLER SHALL BE SPRAYED ONTO THE SUBGRADE BEFORE LAYING THE SUB-BASE.
13. TRAFFIC SAFETY MEASURES ON OR ADJACENT TO AN EXISTING HIGHWAY SHALL BE IN ACCORDANCE WITH CHAPTER 8 OF THE TRAFFIC SIGNS MANUAL.
14. WHERE NEW PAVEMENT MATERIALS ARE TO BE LAID AGAINST BOUND MATERIALS, THE EXISTING SURFACE SHALL BE SAW CUT TO A STRAIGHT EDGE AND THE VERTICAL FACE PAINTED WITH BITUMEN EMISSION SEALANT.
15. WHERE NEW PAVEMENT MATERIALS ARE TO BE LAID UPON EXISTING BOUND MATERIALS, THE SURFACE OF THE EXISTING MATERIAL SHALL BE SUCTION SWEEPED AND TACK COATED IN ACCORDANCE WITH CLAUSE 920 (SNW).
16. BEDDING AND BACKING TO KERB AND EDGING TO BE MIX ST4
17. ALL BITUMINOUS MACADAM LAYERS SHALL BE COMPACTED TO ACHIEVE THE AIR VOIDS REQUIREMENTS SPECIFIED IN THE RELEVANT SECTIONS OF BS 4987.

KEY

PRIVATE PROPOSED DRIVEWAY GRADIENT

PRIVATE SURFACE WATER SEWER. PIPE TO BE 100mm IN DIAMETER AND MANHOLE TO BE 100mm IN DIAMETER AND MANHOLE TO BE POLYTHENE 475mm IN DIAMETER UP TO 1m DEPTH AND 900mm DIAMETER CONCRETE RINGS GRATER THAN 1m DEPTH OR AT DEMARCATION CHAMBER

PRIVATE FOUL SEWER. PIPE TO BE 100mm IN DIAMETER AND MANHOLE TO BE POLYTHENE 475mm IN DIAMETER UP TO 1m DEPTH AND 900mm DIAMETER CONCRETE RINGS GRATER THAN 1m DEPTH OR AT DEMARCATION CHAMBER

PRIVATE TRAPPED ROAD GULLY

ROAD GULLY TO BE ADOPTED UNDER A SECTION 38 AGREEMENT

PROPOSED CARRIAGEWAY CONSTRUCTION AND HIGHWAY CONTOUR TO BE ADOPTED UNDER A SECTION 38 AGREEMENT

PROPOSED FOOTWAY CONSTRUCTION TO BE ADOPTED UNDER A SECTION 38 AGREEMENT

PROPOSED FOUL SEWER TO BE ADOPTED UNDER A SECTION 104 AGREEMENT (SEE DRAWING J01195/A1/004 FOR DETAILS)

PROPOSED STORM SEWER TO BE ADOPTED UNDER A SECTION 104 AGREEMENT (SEE DRAWING J01195/A1/004 FOR DETAILS)

CENTERLINE CHAINAGE MARKER

STORM Network 1									
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Length	Upstream Manhole			Downstream Manhole		
				Number	Invert	Cover	Number	Invert	Cover
1.000	225	95	21.443	S1	81.338	82.763	S2	81.112	82.544
1.001	225	100	18.284	S2	81.112	82.544	S3	80.929	82.545
1.002	225	100	18.491	S3	80.929	82.545	S4	80.744	83.562
1.003	1200	402	34.150	S4	79.769	83.562	S5	79.684	82.695
1.004	1200	398	35.049	S5	79.684	82.695	S6	79.596	82.138
1.005	1200	396	17.041	S6	79.596	82.138	S7	79.553	81.967
1.006	1200	398	16.714	S7	79.553	81.967	S8	79.511	81.797
1.007	1200	402	35.391	S8	79.511	81.797	S9	79.423	81.531
1.008	1200	402	31.369	S9	79.423	81.531	S10	79.345	82.218
1.009	225	173	7.806	S10	79.345	82.218	S11	79.300	82.400
1.010	225	176	13.549	S11	79.300	82.400	S12	79.223	81.885
1.011	225	175	28.016	S12	79.223	81.885	S13	79.063	82.311
1.012	225	175	40.122	S13	79.063	82.311	S14	78.834	82.397
1.013	225	175	71.490	S14	78.834	82.397	S15	78.425	81.509
1.014	225	175	41.729	S15	78.425	81.509	S16	78.187	81.522
1.015	225	174	16.731	S16	78.187	81.542	S17	78.091	80.227
1.016	225	15	23.395	S17	78.091	80.227	S18	76.531	77.994
1.017	225	18	14.427	S18	76.531	77.994	S19	75.729	77.204
1.018	225	18	20.794	S19	75.729	77.204	S20	74.574	76.200

FOUL Network 1									
Pipe Code	Diameter (mm)	Gradient (1:)	Pipe Length	Upstream Manhole			Downstream Manhole		
				Number	Invert	Cover	Number	Invert	Cover
1.000	150	135	25.299	F1	81.000	82.826	F2	80.813	82.499
1.001	150	135	18.195	F2	80.813	82.499	F3	80.678	82.566
1.002	150	135	17.876	F3	80.678	82.566	F4	80.546	83.463
1.003	150	135	31.146	F4	80.546	83.463	F5	80.315	82.720
1.004	150	135	37.845	F5	80.315	82.720	F6	80.035	82.148
1.005	150	135	16.892	F6	80.035	82.148	F7	79.910	81.980
1.006	150	135	17.142	F7	79.910	81.980	F8	79.783	81.809
1.007	150	135	38.202	F8	79.783	81.809	F9	79.500	81.602
1.008	150	135	11.724	F9	79.500	81.602	F10	79.413	81.159
1.009	150	78	3.780	F10	79.413	81.159	F11	79.364	81.127
2.000	150	14	19.148	F12	80.743	82.093	F10	79.413	81.159