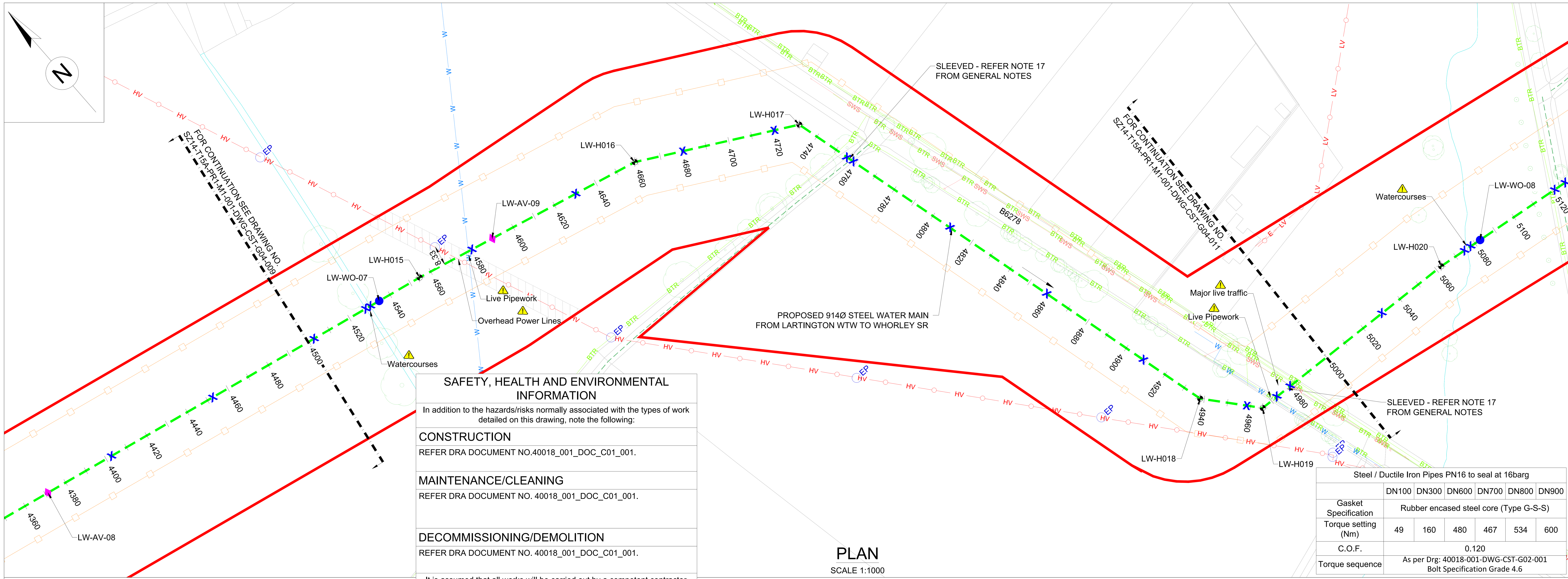


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following:

CONSTRUCTION

REFER DRA DOCUMENT NO.40018_001_DOC_C01_001.

MAINTENANCE/CLEANING

REFER DRA DOCUMENT NO. 40018_001_DOC_C01_001.

DECOMMISSIONING/DEMOLITION

REFER DRA DOCUMENT NO. 40018_001_DOC_C01_001.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement

PLAN

SCALE 1:1000

Steel / Ductile Iron Pipes PN16 to seal at 16barg						
	DN100	DN300	DN600	DN700	DN800	DN900
Gasket Specification	Rubber encased steel core (Type G-S-S)					
Torque setting (Nm)	49	160	480	467	534	600
C.O.F.	0.120					
Torque sequence	As per Drg: 40018-001-DWG-CST-G02-001 Bolt Specification Grade 4.6					

(*) - DENOTES SURVEY REQUIRED. REFER TO NOTE 4 FROM GENERAL NOTES.

FARRANS A CRH COMPANY
ATKINS Member of the SNC-Lavalin Group
Atkins Limited
Chadwick House, Birchwood Park, Warrington, WA3 6AE
Direct: 01925 238319

USER: VAIY3538 Date: 17/11/23 17:40:00 Filename: C:\Users\VAIY3538\ACCDocs\SNCL EDPM\5218185-Tees Pipeline\Civil Engineer\DR\SZ14-T15A-PR1-M1-001-DWG-CST-G04-001.dwg

LEGEND:

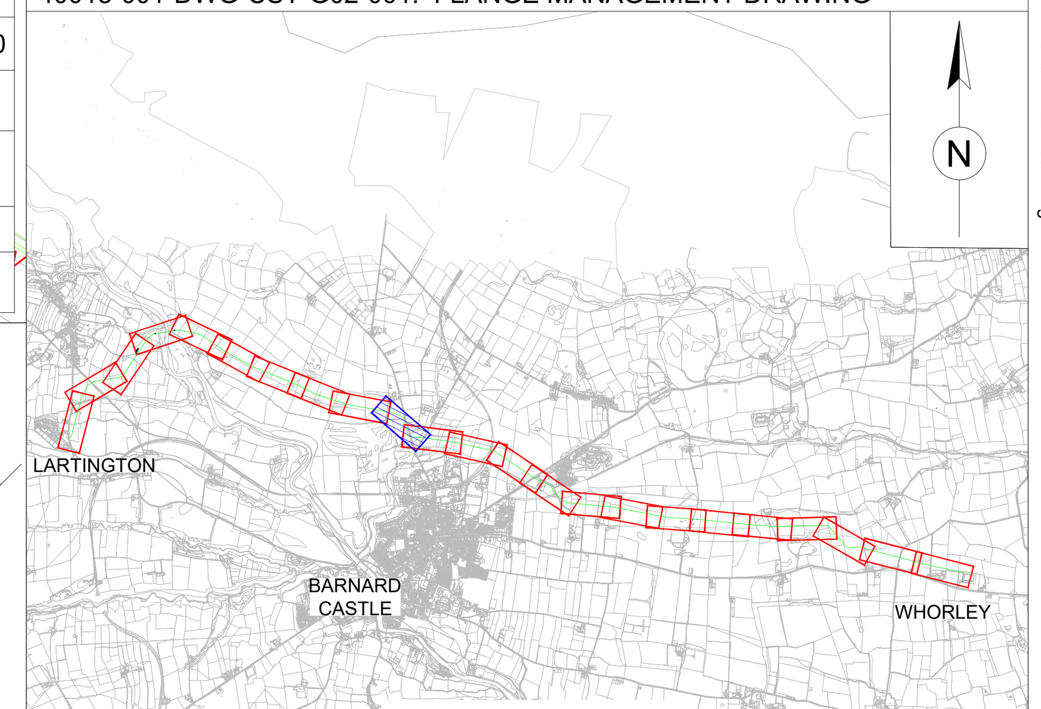
- PLANNING BOUNDARY
- WORKING BOUNDARY
- WATERCOURSE
- PROPOSED PIPE ROUTE
- PUBLIC RIGHT OF WAY
- TREE
- L.V.
- A.V.
- W.O.
- XXXX SETTING OUT POINT
- EP ELECTRIC POLE
- HAZARD IDENTIFIER
- CLAY STANK

EXISTING SERVICES:

- W — WATER MAIN
- SSE — SEWER MAIN
- HV — ELECTRIC-HV
- HV — ELECTRIC-HV OVERHEAD
- LV — ELECTRIC-LV
- LV — ELECTRIC-LV OVERHEAD
- E — ELECTRIC
- BTR — BT UNDERGROUND
- T — BT OVERHEAD
- VM — BT-VIRGIN MEDIA
- LPG — GAS-LOW PRESSURE
- MPG — GAS-MEDIUM PRESSURE
- SWS — STORM WATER MAIN
- SL — STREET LIGHT CABLE
- GAS WORKING SAFETY ZONE
- POWER LINE SAFETY ZONE

REFERENCE:

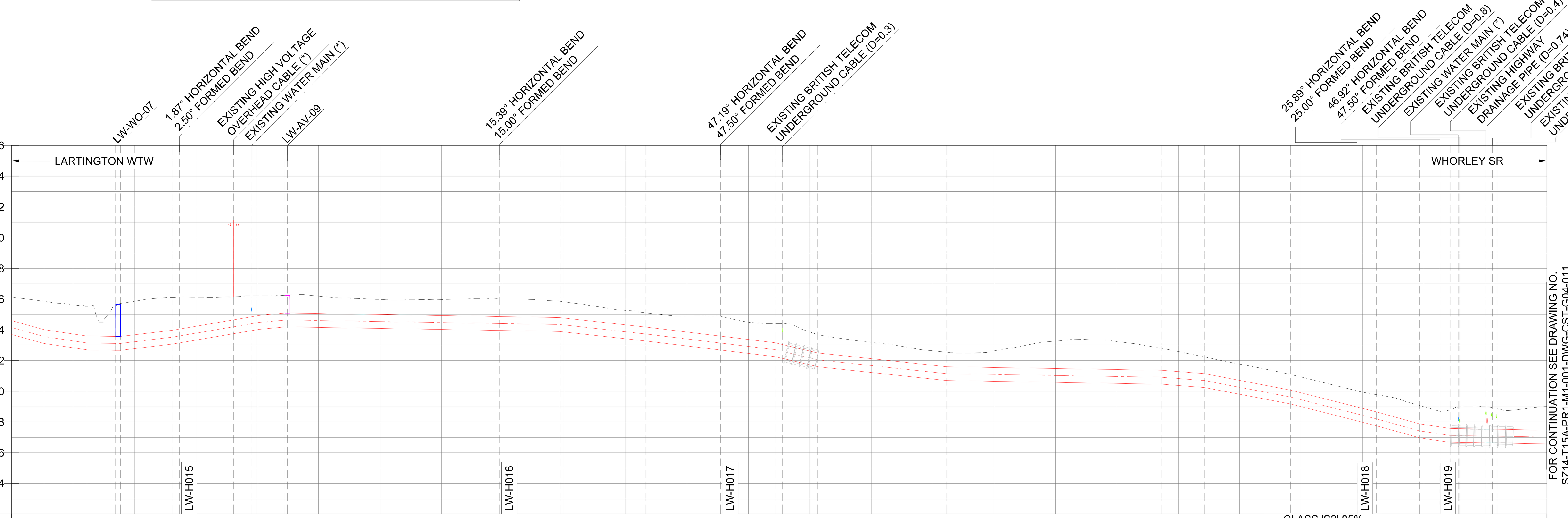
SZ14-T15A-PR1-M1-001-DWG-CST-G04-029: GENERAL NOTES / REFERENCES
40018-001-DWG-CST-G02-001: FLANGE MANAGEMENT DRAWING



KEY PLAN

SCALE : NTS

LARTINGTON TO WHORLEY SETTING OUT POINTS		
4520	404893.657	518447.130
4560	404932.881	518439.302
4600	404971.870	518430.365
4640	405010.859	518421.428
4680	405047.858	518407.199
4720	405083.079	518388.237
4760	405099.975	518354.904
4800	405109.998	518316.180
4840	405120.021	518277.456
4880	405130.044	518238.733
4920	405140.067	518200.009
4960	405158.750	518165.785
5000	405196.878	518160.192
HORIZONTAL BEND		
SOP NO.	EASTING	NORTHING
LW-H015	404927.685	518440.494
LW-H016	405029.265	518417.208
LW-H017	405092.686	518383.065
LW-H018	405144.633	518182.369
LW-H019	405162.130	518161.815
WASHOUT		
SOP NO.	EASTING	NORTHING
LW-WO-07	404908.065	518444.320
AIRVALVE		
SOP NO.	EASTING	NORTHING
LW-AV-09	404961.997	518432.628



PIPE: 914mm Ø STEEL WATER MAIN

BEDDING: CLASS 'S4' 85% COMPACTION, 1.514m — CLASS 'S2' 85% COMPACTION, 1.514m (ROAD) — CLASS 'S4' 85% COMPACTION, 1.514m — CLASS 'S2' 85% COMPACTION, 1.514m — CLASS 'S4' 85% COMPACTION, 1.5

SURFACE: FIELD — DRAIN — +Horizontal — +Horizontal — FIELD — ROAD — FIELD — ROAD

VERTICAL ANGLE: 1.50° — 1.50° — 0.19° — 1.38° — 0.57° — 0.88° — 1.06° — 0.19° — 1.07° — 0.12° — 1.33° — 1.49° — 1.04° — 0.70° — 1.30° — 0.71° — 0.29° — 1.50° — 1.50°

GRADIENT: -1:18 — -1:34 — -1:300 — +1:41 — +1:29 — +1:54 — -1:300 — -1:45 — -1:41 — -1:21 — -1:47 — -1:300 — -1:64 — -1:26 — -1:20 — -1:18 — -1:34 — -1:300

CHAINAGE	EXISTING GROUND LEVEL	COVER DEPTH	INVERT LEVEL
4500.000	176.129	1.527	173.699
4510.565	175.854	1.841	173.110
4520.000	175.634	1.900	172.831
4524.565	175.527	1.927	172.696
4533.850	175.560	1.991	172.665
4534.679	175.665	2.096	172.665
4535.479	175.711	2.142	172.665
4540.000	175.861	2.183	172.774
4552.565	176.103	2.122	173.078
4554.668	176.118	2.066	173.149
4560.000	176.112	1.878	173.331
4572.261	176.154	1.503	173.748
4578.221	176.202	1.348	173.951
4580.000	176.202	1.287	174.011
4580.565	176.202	1.268	174.030
4589.070	176.250	1.158	174.188
4589.870	176.257	1.172	174.188
4590.670	176.264	1.165	174.188
4600.000	176.193	1.132	174.157
4620.000	175.977	0.983	174.091
4640.000	175.969	1.041	174.024
4658.884	176.019	1.155	173.961
4660.000	176.010	1.149	173.958
4678.565	175.859	1.060	173.896
4680.000	175.821	1.053	173.864
4700.000	175.269	0.943	173.423
4706.565	175.111	0.929	173.278
4720.000	174.904	1.048	172.953
4730.911	174.875	1.284	172.688
4740.000	174.497	1.125	172.468
4748.565	174.403	1.239	172.260
4751.016	174.401	1.353	172.144
4760.000	173.860	1.239	171.718
4762.565	173.688	1.188	171.596
4780.000	173.185	1.059	171.223
4800.000	172.636	0.938	170.794
4804.565	172.543	0.943	170.696
4820.000	172.630	1.081	170.645
4840.000	173.267	1.785	170.578
4860.000	173.242	1.827	170.512
4874.565	172.795	1.428	170.463
4880.000	172.587	1.304	170.379
4888.565	172.233	1.083	170.246
4900.000	171.766	1.054	169.808
4916.565	171.097	1.020	169.174
4920.000	170.928	1.025	169.000
4938.221	170.021	1.042	168.076
4940.000	169.948	1.059	167.985
4944.565	169.782	1.125	167.754
4958.565	169.077	1.161	166.973
4960.000	168.693	1.012	166.931
4965.214	168.802	1.200	166.777
4968.565	168.996	1.410	166.678
4971.186	168.983	1.220	166.669
4971.651	169.012	1.441	166.668
4980.000	169.000	1.457	166.640
4980.275	169.000	1.457	166.639
4980.567	168.984	1.442	166.638
4981.886	168.952	1.415	166.634
4982.307	168.935	1.399	166.632
4983.756	168.874	1.532	166.628
5000.000	169.009	1.343	166.573

GEOLOGY: GLACIOFLUVIAL DEPOSITS E = 4MN/m² — GLACIAL TILL E = 3MN/m²

LONGITUDINAL SECTION

HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:200

Scale 1:200 (5m 0m 5m 10m) — Scale 1:1000 (10m 0m 10m 20m 30m 40m 50m 60m 70m)

Drawing Status: FOR REVIEW BY LEAD APPOINTED PARTY

Suitability: S4

Rev.	Description	Date	Drawn	Chk'd	App'd
P04	FOR REVIEW	20.11.2023	AJ	RH	SK
P03	FOR REVIEW	18.09.2023	AJ	RH	SK
P02	FOR REVIEW	26.07.2023	AJ	RH	SK
P01	REVIEW AND COMMENTS	25.04.2023	AJ	SM	SK

Note:-

IF THIS DRAWING IS FOUND TO BE IN ANY WAY INACCURATE, PLEASE ADVISE THE RECORD OFFICE IMMEDIATELY AND COMPLETE AN AMENDMENT FORM.

NORTHUMBRIAN WATER living water

CONTRACTOR: FARRANS
REF. NO.: WN019/0205-4.11
I.D. PROJECT NO.: WN019/0205

Drawing Title:

TEES STRATEGIC TRANSFER MAIN
LARTINGTON WTW TO WHORLEY SR
PLAN AND LONGITUDINAL SECTION

Dwg No: SZ14-T15A-PR1-M1-001-DWG-CST-G04-010

Sheet:	Date:	Sheet:	Scale:	Rev No:
10 OF 23	20.11.2023	A1	AS SHOWN	P04