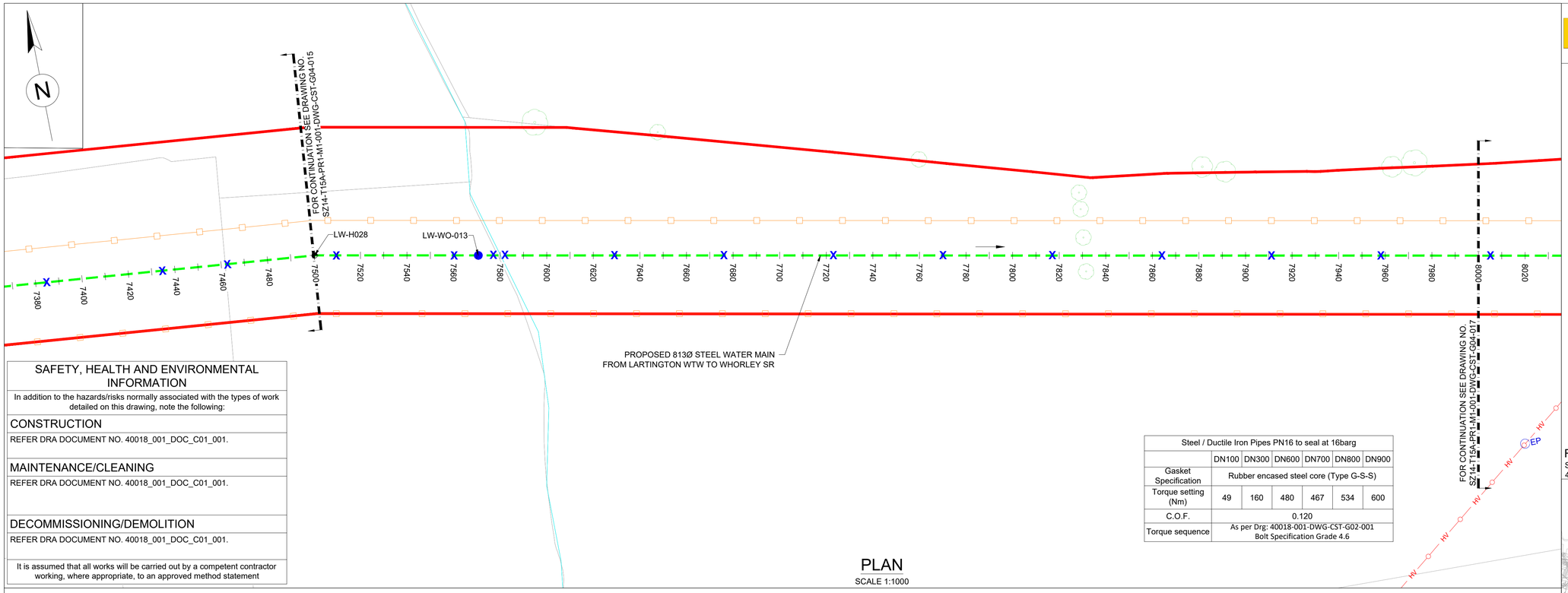


SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

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

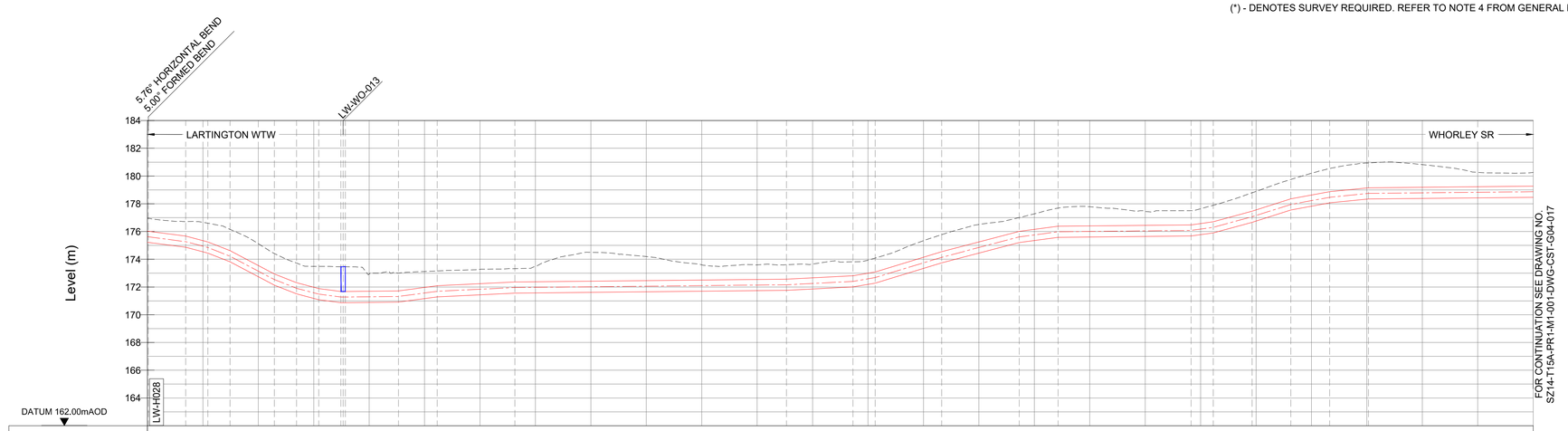
Steel / Ductile Iron Pipes PN16 to seal at 16barg						
	DN100	DN300	DN600	DN700	DN800	DN900
Gasket Specification	Rubber encased steel core (Type G-S-S)					
Torque setting (Nm)	49	160	480	467	534	600
C.O.F.	0.120					
Torque sequence	As per Drg: 40018-001-DWG-CST-G02-001 Bolt Specification Grade 4.6					

PLAN

SCALE 1:1000

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

LARTINGTON TO WHORLEY SETTING OUT POINTS		
7520	407495.291	517363.022
7560	407534.564	517355.433
7600	407573.838	517347.844
7640	407613.111	517340.254
7680	407652.384	517332.665
7720	407691.658	517325.076
7760	407730.932	517317.487
7800	407770.205	517309.898
7840	407809.478	517302.309
7880	407848.752	517294.720
7920	407888.025	517287.131
7960	407927.299	517279.542
8000	407966.572	517271.953
WASHOUT		
SOP NO.	EASTING	NORTHING
LW-WO-013	407544.987	517353.419
HORIZONTAL BEND		
SOP NO.	EASTING	NORTHING
LW-H028	407475.966	517366.756



PIPE: 813mm Ø STEEL WATER MAIN

BEDDING: CLASS 'S4' 85% COMPACTION, 1.413m

SURFACE: FIELD; +Horizontal; DRAIN; FIELD

VERTICAL ANGLE: -1.50°, -1.50°, -1.50°, -1.50°, -1.50°, -1.50°, -1.50°, 0.11°, -1.42°, 0.98°, 0.44°, 0.47°, -1.39°, -1.50°, 0.47°, -1.49°, -1.40°, -1.50°, -1.50°, 0.50°, -1.50°, 0.97°, 1.03°

GRADIENT: -1:38, -1:19, -1:13, -1:10, -1:13, -1:19, -1:38, +1:500, +1:37, +1:103, +1:500, +1:98, +1:29, +1:16, +1:19, +1:38, +1:500, +1:35, +1:18, +1:16, +1:27, +1:50, +1:500

CHAINAGE	EXISTING GROUND LEVEL	COVER DEPTH	INVERT LEVEL
7500.000	176.960	0.930	176.030
7500.318	176.952	0.931	175.217
7513.814	176.717	1.049	175.668
7520.000	176.661	1.318	174.540
7521.815	176.600	1.351	175.249
7529.815	176.151	1.532	174.619
7540.000	175.121	1.573	172.744
7545.815	174.412	1.475	172.938
7553.815	173.721	1.413	172.308
7560.000	173.490	1.507	171.979
7561.815	173.489	1.601	171.889
7569.815	173.459	1.780	171.679
7570.615	173.458	1.778	170.875
7571.415	173.457	1.779	171.679
7580.000	172.930	1.234	170.892
7590.565	173.006	1.289	171.717
7600.000	173.116	1.147	171.166
7604.565	173.156	1.064	172.092
7620.000	173.275	1.033	171.438
7632.565	173.325	0.960	172.364
7640.000	173.500	1.121	171.575
7660.000	174.501	2.082	171.615
7680.000	174.194	1.735	171.655
7700.000	173.599	1.099	171.695
7720.000	173.592	1.053	171.735
7730.565	173.603	1.043	172.560
7740.000	173.654	0.997	171.853
7754.565	173.815	1.010	172.805
7760.000	173.933	0.939	172.189
7762.565	174.087	1.005	173.082
7780.000	175.337	1.195	173.338
7786.565	175.773	1.231	174.542
7800.000	176.507	1.260	174.443
7814.565	177.004	0.991	176.012
7820.000	177.272	1.115	175.352
7828.565	177.688	1.305	176.384
7840.000	177.788	1.381	175.602
7860.000	177.450	1.003	175.642
7876.568	177.500	1.020	176.480
7880.000	177.641	1.065	175.772
7884.565	177.890	1.185	176.705
7898.565	178.791	1.324	177.467
7900.000	178.893	1.336	176.753
7912.565	179.756	1.403	178.352
7920.000	180.202	1.574	177.823
7926.565	180.543	1.672	178.870
7940.000	180.936	1.797	178.335
7940.565	180.942	1.791	179.151
7960.000	180.826	1.636	178.386
7980.000	180.265	1.035	178.426
8000.000	180.261	0.991	179.270

GEOLOGY: GLACIAL TILL E = 3MN/m²; GLACIAL TILL E = 4MN/m²

LONGITUDINAL SECTION

HORIZONTAL SCALE 1:1000 VERTICAL SCALE 1:200

5m 0m 5m 10m — Scale 1:200

10m 0m 10m 20m 30m 40m 50m 60m 70m — Scale 1:1000

FARRANS A CRH COMPANY
ATKINS Member of the SNC-Lavalin Group

Atkins Limited
Chadwick House, Birchwood Park, Warrington, WA3 6AE
Direct: 01925 238319

LEGEND:

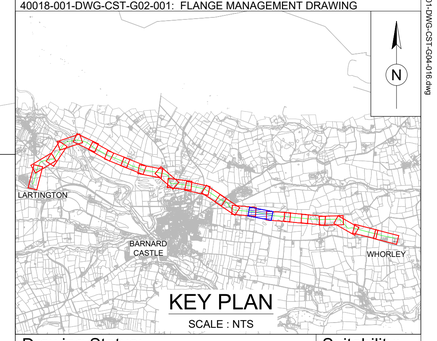
- PLANNING BOUNDARY
- WORKING BOUNDARY
- WATERCOURSE
- PROPOSED PIPE ROUTE
- PUBLIC RIGHT OF WAY
- TREE
- L.V.
- A.V.
- W.O.
- XXXX SETTING OUT POINT
- EP ELECTRIC POLE
- HAZARD IDENTIFIER
- X CLAY STANK

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

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-G04-016

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

USER: VAN5538 Date: 17/11/23 13:33:46 Filename: C:\Users\VAN5538\ACCDocs\SNCL EDP\46218185-Tees Pipeline\Civil Engineer\DRS\214-T15A-PR1-M1-001-DWG-CST-G04-016.dwg