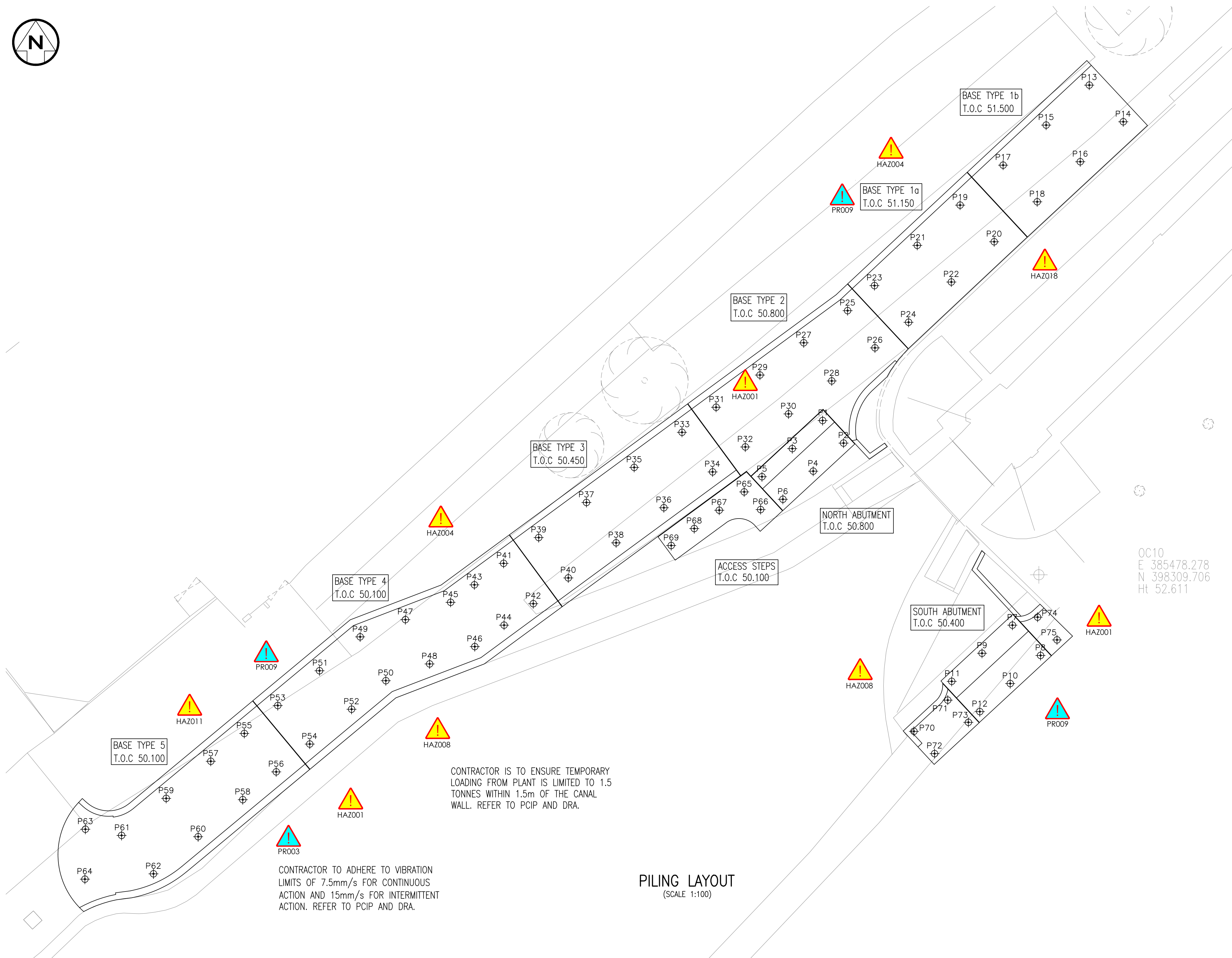
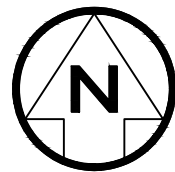




CONTRACTOR IS TO ENSURE TEMPORARY
LOADING FROM PLANT IS LIMITED TO 1.5
TONNES WITHIN 1.5m OF THE CANAL
WALL. REFER TO PCIP AND DRA.

CONTRACTOR TO ADHERE TO VIBRATION
LIMITS OF 7.5mm/s FOR CONTINUOUS
ACTION AND 15mm/s FOR INTERMITTENT
ACTION. REFER TO PCIP AND DRA.

PIILING LAYOUT
(SCALE 1:100)

HAZARD DIRECTORY	
HAZARD REF No.	SIGNIFICANT DESIGNER'S HAZARDS
HAZ001	WORKING ADJACENT TO NON-MOTORISED USERS.
HAZ004	NOISE, DUST AND VIBRATION DURING CONSTRUCTION.
HAZ008	WORKING ADJACENT TO ASHTON CANAL.
HAZ018	STABILITY OF LOCK WALL ADJACENT TO EAST RAMP.
PR003	STABILITY/WATERTIGHTNESS OF CANAL WALLS AND PUDDLE CLAY BACKING.
PR009	PIILING CONTRACTOR AMENDING PILE LAYOUT - LEADING TO THE REDESIGN OF THE SUPERSTRUCTURE.
PR010	WORKING ADJACENT TO ASHTON CANAL.

PILE SETTING OUT

POINT	EASTING	NORTHING	CUT OFF LEVEL
NORTH ABUTMENT			
P1	385468.344	398316.795	50.175
P2	385469.306	398315.758	50.175
P3	385466.951	398315.504	50.175
P4	385467.912	398314.467	50.175
P5	385465.558	398314.212	50.175
P6	385466.519	398313.175	50.175
SOUTH ABUTMENT			
P7	385477.063	398307.390	49.975
P8	385478.355	398305.997	49.975
P9	385475.670	398306.098	49.975
P10	385476.961	398304.705	49.975
P11	385474.276	398304.807	49.975
P12	385475.568	398303.413	49.975
BASE TYPE 1			
P13	385480.593	398332.212	50.825
P14	385482.159	398330.528	50.825
P15	385478.616	398330.374	50.825
P16	385480.181	398328.690	50.825
P17	385476.638	398328.536	50.825
P18	385478.204	398326.851	50.825
P19	385474.660	398326.698	50.475
P20	385476.226	398325.013	50.475
P21	385472.693	398324.849	50.475
P22	385474.259	398323.164	50.475
P23	385470.726	398322.999	50.475
P24	385472.292	398321.314	50.475
BASE TYPE 2			
P25	385469.492	398321.848	50.175
P26	385470.750	398320.136	50.175
P27	385467.478	398320.367	50.175
P28	385468.764	398318.618	50.175
P29	385465.463	398318.887	50.175
P30	385466.777	398317.100	50.175
P31	385463.449	398317.406	50.175
P32	385464.790	398315.581	50.175
BASE TYPE 3			
P33	385461.884	398316.256	49.825
P34	385463.290	398314.435	49.825
P35	385459.688	398314.642	49.825
P36	385461.050	398312.789	49.825
P37	385457.494	398313.029	49.825
P38	385458.856	398311.176	49.825
P39	385455.300	398311.416	49.825
P40	385456.662	398309.563	49.825
BASE TYPE 4			
P41	385453.689	398310.232	49.475
P42	385455.051	398308.379	49.475
P43	385452.346	398309.245	49.475
P44	385453.708	398307.392	49.475
P45	385451.253	398308.442	49.475
P46	385452.365	398306.404	49.475
P47	385449.175	398307.646	49.475
P48	385450.287	398305.609	49.475
P49	385447.097	398306.851	49.475
P50	385448.277	398304.840	49.475
P51	385445.232	398305.294	49.475
P52	385446.703	398303.525	49.475
P53	385443.312	398303.693	49.475
P54	385444.783	398301.925	49.475
BASE TYPE 5			
P55	385441.774	398302.414	49.475
P56	385443.242	398300.649	49.475
P57	385440.237	398301.135	49.475
P58	385441.705	398299.370	49.475
P59	385438.186	398299.430	49.475
P60	385439.654	398297.665	49.475
P61	385436.136	398297.724	49.475
P62	385437.604	398295.959	49.475
P63	385434.472	398298.010	49.475
P64	385434.453	398295.714	49.475
ACCESS STEPS			
P65	385464.743	398313.517	49.825
P66	385465.496	398312.705	49.825
P67	385463.596	398312.674	49.825
P68	385462.448	398311.830	49.825
P69	385461.388	398311.051	49.825
RETAINING WALLS			
P70	385472.541	398302.508	49.975
P71	385474.092	398303.946	49.975
P72	385473.489	398301.486	49.975
P73	385475.040	398302.924	49.975
P74	385478.219	398307.757	49.975
P75	385479.112	398306.714	49.975

PILE VERTICAL LOADS

AXIAL COMPRESSION LOAD (kN)				
PILE REF	ELEMENT	SLS	ULS GEO B	ULS GEO C
P1-P12	ABUTMENT	259	345	264
P17-P69	RAMPS	153	206	158
P70-P75	RET WALLS	155	200	150

PILE HEAD SHEAR LOADS

AXIAL COMPRESSION LOAD (kN)				
PILE REF	ELEMENT	SLS	ULS GEO B	ULS GEO C
P1-P12	ABUTMENT	20	25	20
P17-P69	RAMPS	5	6	5
P70-P75	RET WALLS	13	21	21

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
- NO DIMENSIONS OR LEVELS SHALL BE SCALED FROM THIS DRAWING.
- ALL LEVELS RELATE TO THE SURVEY STATIONS SHOWN BELOW.

STATION	EASTING	NORTHING	LEVEL
OC09	385432.992	398294.547	50.150
OC10	385478.278	398309.706	52.611
JP02	385492.541	398340.999	52.540
- THIS DRAWING IS BASED ON A TOPOGRAPHICAL SURVEY PROVIDED BY MANCHESTER CITY COUNCIL, UNDERTAKEN IN JANUARY 2020.
- FOR HAZARD DIRECTORY REFER TO DRG. No. 651-279-001.
- PILES SHALL BE DESIGNED BY CONTRACTOR TO EUROCODE STANDARDS BASED ON THE LOADS SHOWN IN THE TABLES WITHIN THIS DRAWING. CONTRACTOR TO SPECIFY PILE CONCRETE.
- APPROPRIATE PILING PLATFORM TO BE DESIGNED BY THE CONTRACTOR.
- INTEGRITY TESTING OF PILES:
 - ALL PILES SHALL BE INSPECTED DURING THE EARTHWORKS FOR THE DETECTION OF MAJOR FAULTS, NECKING, DISCONTINUITIES AND REDUCTION OF CROSS SECTIONAL AREAS OF THE PILES
 - ALL PILES SHALL BE SUBJECT TO INTEGRITY TESTING IN ACCORDANCE WITH CI 1608 OF THE MANUAL OF CONTRACT DOCUMENTS FOR HIGHWAY WORKS, VOLUME 1 - SPECIFICATION FOR HIGHWAY WORKS.
- REINFORCEMENT FROM PILES IS TO PROJECT A MINIMUM OF 830mm FROM PILE CUT-OFF LEVEL INTO THE ABUTMENT. (TO BE CONFIRMED).
- REFER TO APPENDIX 1/5 OF THE SPECIFICATION FOR TESTING REQUIREMENTS TO THE PILES.
- REFER TO APPENDIX 16/13 OF THE SPECIFICATION FOR THE CONCRETE SPECIFICATION SCHEDULE.
- DESIGN ASSUMES A PILE POSITIONAL TOLERANCE OF 75mm AWAY FROM THE LOCATIONS SPECIFIED IN THE PILE SETTING OUT TABLE.
- PILE DESIGNER SHALL REFER TO THE GROUND INVESTIGATION REPORT PROVIDED WITHIN THE PRE CONSTRUCTION INFORMATION PACK APPENDICES.

P1 | SD | WH | MG | 21.10.22 | PRELIMINARY

REV | DRN | CHK | APP | DATE | DESCRIPTION



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Client
MANCHESTER CITY COUNCIL

Project
ASHTON CANAL BRIDGE

Title
PIILING LAYOUT

Scale 1:100	Drawn SD	Date 31.05.22	Chkd WH	Approved MG
Drawing No. 651-279-013				Revision P1
Status TENDER				Sheet Size A1