

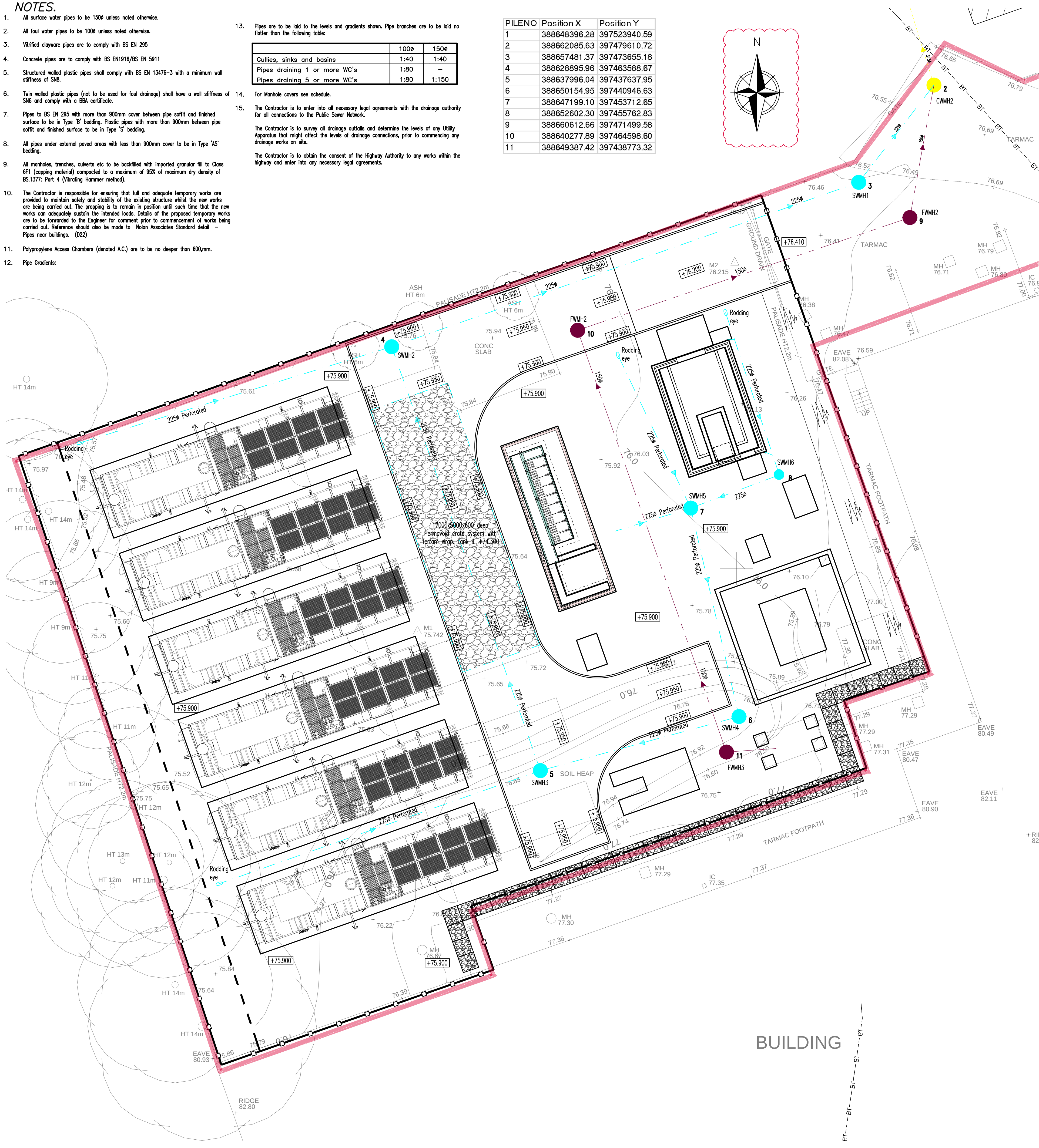
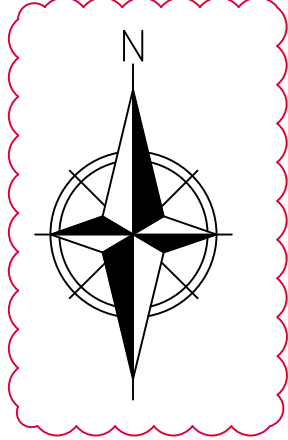
NOTES.

- All surface water pipes to be 150Ø unless noted otherwise.
- All foul water pipes to be 100Ø unless noted otherwise.
- Vitrified clayware pipes are to comply with BS EN 255
- Concrete pipes are to comply with BS EN1916/BS EN 5911
- Structured walled plastic pipes shall comply with BS EN 13476-3 with a minimum wall stiffness of S80.
- Twin walled plastic pipes (not to be used for foul drainage) shall have a wall stiffness of S16 and comply with a BBA certificate.
- Pipes to BS EN 205 with more than 900mm cover between pipe soffit and finished surface to be in Type 'B' bedding. Plastic pipes with more than 900mm between pipe soffit and finished surface to be in Type 'S' bedding.
- All pipes under external paved areas with less than 900mm cover to be in Type 'A5' bedding.
- All manholes, trenches, culverts etc to be backfilled with imported granular fill to Class B1 (capping material) compacted to a maximum of 95% of maximum dry density of BS.1377: Part 4 (Vibrating Hammer method).
- The Contractor is responsible for ensuring that full and adequate temporary works are provided to maintain safety and stability of the existing structure whilst the new works are being carried out. The proposal is to remain in position until such time that the new works can adequately sustain the intended loads. Details of the proposed temporary works are to be forwarded to the Engineer for comment prior to commencement of works being carried out. Reference should also be made to Nolan Associates Standard detail - Pipes near buildings. (022)
- Polypropylene Access Chambers (denoted A.C.) are to be no deeper than 600mm.
- Pipe Gradients:
- Pipes are to be laid to the levels and gradients shown. Pipe branches are to be laid no flatter than the following table:

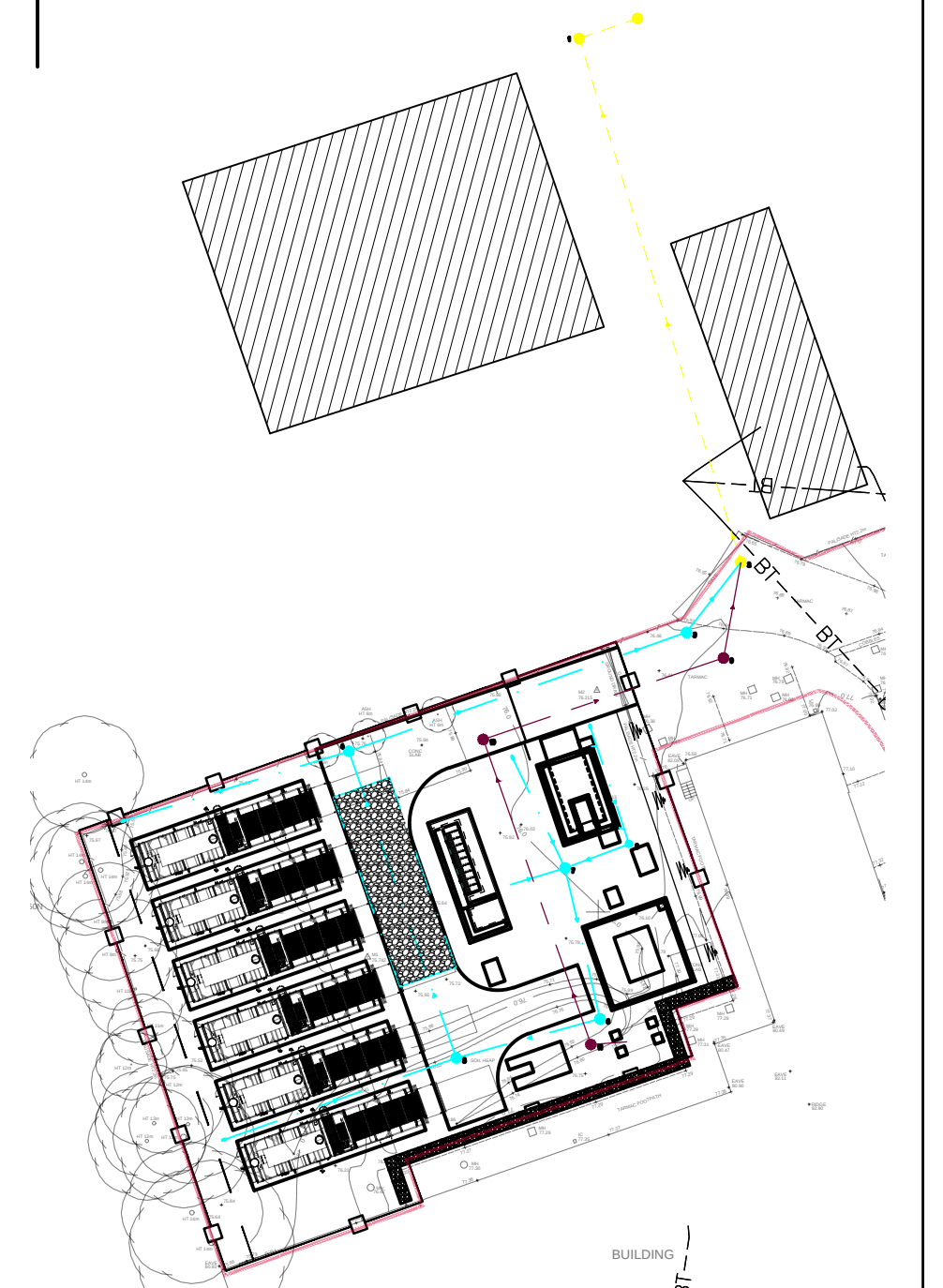
	100Ø	150Ø
Gullies, sinks and basins	1:40	1:40
Pipes draining 1 or more WC's	1:80	—
Pipes draining 5 or more WC's	1:80	1:150

- For Manhole covers see schedule.
- The Contractor is to enter into all necessary legal agreements with the drainage authority for all connections to the Public Sewer Network.
The Contractor is to survey all drainage outfalls and determine the levels of any Utility Apparatus that might affect the levels of drainage connections, prior to commencing any drainage works on site.
The Contractor is to obtain the consent of the Highway Authority to any works within the highway and enter into any necessary legal agreements.

PILENO	Position X	Position Y
1	388648396.28	397523940.59
2	388662085.63	397479610.72
3	388657481.37	397473655.18
4	388628895.96	397463588.67
5	388637996.04	397437637.95
6	388650154.95	397440946.63
7	388647199.10	397453712.65
8	388652602.30	397455762.83
9	388660612.66	397471499.58
10	388640277.89	397464598.60
11	388649387.42	397438773.32



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Key Plan NTS

NOLAN ASSOCIATES
CONSTRUCTION
DRAWING

REV	DESCRIPTION	BY	CHKD	DATE
B	North arrow added. Notes added.	K.Hall	ARW	26.05.23
A	Construction	K.Hall	ARW	17.04.23
T1	Tender	ChB	ARW	30.03.23

Green Frog Connect
Ashton Old Road, Manchester

Drainage Layout



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Drawn by K.Hall	Date Feb 23	Plot Date Feb 23	Scale 1: 150@A1
Checked by ARW	Project No 2022-278	Dwg No 14	B