

Notes:

1. All levels are in AOD Datum.
2. All highway works on or adjacent to existing public highway shall be executed in accordance with the Traffic Safety Code for Roadworks and Chapter 8 of the Traffic Signs Manual.
3. The commencement of works on site the contractor is to carry out the risk and liaise with Utility Companies in order to establish the exact position of all existing statutory utility plant in the vicinity of works and take adequate precautions or their protection.
4. The Contractor is to comply fully with the CDM Regulations in the course of conducting the works.
5. Highways in the vicinity of the works must be kept free from mud, debris and dust falling from vehicles or the wheels of vehicles connected with the works.
6. All drains and sewer pipes to be left sealed to soil, unless shown otherwise.
7. All existing drains and sewer pipes to be left sealed to soil, unless shown otherwise.
8. Position of all pipes, standing wastes, water cables etc. are shown on the Architect's working drawings. Rainwater downpipe positions are to be checked against Architects details to ensure correct location and depth.
9. All concrete and concrete products to be in accordance with BRE 365 for subbases.
10. All sub-bases shown are for guidance only and may need to be specified on the subject to approval by the engineer.
11. Do not seal from this drawing work only from stated dimensions or setting out details.
12. Where joints fall towards the front door use suitable finished drainage system connected to surface water system as per architect's details.
13. All plots to have gardens sloping away from properties towards front door to be retained.
14. All plots to have gardens sloping away from properties towards front door to be retained.
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16. Soakaways to be a minimum 50mm from building foundations and 20mm from boundary wall foundations. Boundary walls within 20mm of soakaways to have reinforced foundations.
17. Where drains pass through foundations a suitable joint should be provided within 150mm of the wall face and a rubber pipe ring, 100mm in height shall be provided for the drainage pipe to pass through the foundation.
18. All drains to be sealed to soil, unless shown otherwise.
19. Where drains pass close to buildings or their front levels are below foundations then the drains are to be sealed to underside of foundation to approval of the building control Officer.
20. Where connections to drains runs are not at manholes/inspection chambers connections should be made using oblique 45° junctions.
21. The contractor is to keep a record of any variations made on site, including the re-location of pipes or drains, so that As Considered drawing can be produced upon completion of the project.
22. This drawing is to be read in conjunction with all relevant engineering drawings issued by Kays Nurubut Consulting for this site only.

Legend:

- Existing foul water sewer
- Type 2 Manhole
- Type 3 Inspection chamber
- Type 4 Inspection chamber
- Bin Store Wash Out
- Domestic foul water drainage with reference
- Type 5 Silt Trap Manhole
- Domestic surface water drain (with reference)
- Domestic gravel filled soakaway designed in accordance with Environment Agency criteria. In-situ testing has been undertaken to confirm infiltration rates.
- Domestic drainage discharge into granular sub-base through proprietary diffuser unit

- Permeable block paved access court and parking area
- Paved area to be constructed in permeable block paving
- Permeable gravel construction - proprietary retention system
- Proposed Finished Floor level
- Ballast Type to be agreed

- Proposed level (may be amended on site subject to discussion with the Engineer)
- Proposed formation level (may be amended on site subject to discussion with the Engineer)
- Original surveyed level
- Proposed detailing to be read in conjunction with landscape architects details

Rev.	Date	Details	Issues
B	06/04/21	Sanitary depths and formation levels added	KN
A	19/03/21	First Issue	KN

Project	MAYFLOWER WAY ANGERING
Client	ANGERING COMMUNITY LAND TRUST
Preliminary	

Company Name	KAZYS NARBUTAS CONSULTING
Company No.	KN0201
Company Address	19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

Engineering Details	Drainage Layout
Scale	1:250
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Revision	B

Foul Drainage Manhole Schedule

Reference	Code Level (m)	Invert Level (m)	Depth to Soil (m)	Size (mm)	Type	Code Grade
F1	10.20	8.15	1.99	1200 diameter	2	D400
F2	10.20	8.07	0.82	450 diameter	3	B125
F3	10.25	8.08	0.15	450 diameter	3	B125
F4	10.20	8.14/8.24	0.06	450 diameter	3	B125
F5	10.20	9.47	0.99	450 diameter	3	B125
F6	10.20	8.25/8.95	1.25	450 diameter	3	B125
F7	10.20	9.70	0.50	450 diameter	3	B125
F8	10.35	8.69	0.80	450 diameter	3	B125
F11	10.25	9.69	0.50	250 diameter	4	B125
F11	10.20	9.50	0.50	250 diameter	4	B125
F41	10.20	9.50	0.50	250 diameter	4	B125
F42	10.20	9.50	0.50	250 diameter	4	B125
F51	10.20	9.40	0.80	250 diameter	4	B125
F71	10.20	9.70	0.50	250 diameter	4	B125
F72	10.20	9.70	0.50	250 diameter	4	B125
F73	10.20	9.70	0.50	250 diameter	4	B125
F81	10.40	9.69	0.50	250 diameter	4	B125

SURFACE WATER DRAINAGE MANHOLE SCHEDULE

REFERENCE	Code Level (m)	Invert Level (m)	Depth to Soil (m)	Size (mm)	Type	Code Grade
S1	10.20	9.87	0.40	450 diameter	3	B125
S2	10.20	9.67	0.40	450 diameter	3	B125
S11	9.95	9.40	0.40	450 diameter	5	B125
S12	9.95	9.20	0.50	450 diameter	5	B125
S13	9.95	9.20	0.50	450 diameter	5	B125
S14	9.95	9.20	0.50	450 diameter	5	B125
S15	10.25	9.60	0.50	450 diameter	5	B125
S16	10.25	9.60	0.50	450 diameter	5	B125
S17	10.25	9.60	0.50	450 diameter	5	B125
S18	10.20	9.40	0.40	450 diameter	5	B125
S19	10.20	9.40	0.50	450 diameter	5	B125
S10	10.20	9.67	0.50	450 diameter	5	B125
S11	10.20	9.50	0.60	450 diameter	5	B125
S12	10.20	9.70	0.50	450 diameter	5	B125
Drainage	10.20	9.70	0.50	450 diameter	5	B125

DOMESTIC SOAKAWAY DETAILS-Trench Soakaways (Based on in-situ tests)

Soakaway Ref	Area Drains (m ²)	Width (m)	Length (m)	Soakaway Level (m)	Soakaway Depth (m)	Soakaway Size (mm)	Soakaway Type	Soakaway Zone
S01	30	1.0	5.0	9.80	9.20	7.80	2.10	1
S02	73	1.5	6.0	9.80	9.40	7.70	2.20	1
S03	47	1.5	6.0	9.90	9.20	7.70	2.20	1
S04	47	1.5	6.0	9.95	9.20	7.70	2.25	1
S05	38	1.0	5.0	10.10	9.50	7.80	2.20	1
S06	49	1.0	6.0	10.10	9.50	7.80	2.20	1
S07	62	1.5	6.0	10.05	9.50	8.10	1.95	1
S08	16	1.0	2.0	10.25	9.70	8.35	1.90	2
S09	74	1.5	6.0	10.30	9.50	8.60	1.70	2
S010	77	1.5	6.0	10.30	9.60	8.60	1.70	2
S011	61	1.0	6.0	10.30	9.60	8.60	1.70	2

Infiltration Rates

Location	Soakaway Ref	Rate (m ³ /hr)	Test Date
1	S01	0.014/0.04	2.0
2	S02	0.008/0.08	2.0
3	S03	0.008/0.08	2.0
4	S04	0.008/0.08	2.0
5	S05	0.008/0.08	2.0
6	S06	0.008/0.08	2.0
7	S07	0.008/0.08	2.0
8	S08	0.008/0.08	2.0
9	S09	0.008/0.08	2.0
10	S10	0.008/0.08	2.0
11	S11	0.008/0.08	2.0
12	S12	0.008/0.08	2.0

Infiltration rates have been confirmed by in-situ tests.

- SAFETY, HEALTH & ENVIRONMENTAL INFORMATION CDM Regulations 2015
 - In addition to the hazards/risks normally associated with the type of work detailed on this drawing note should be made of the following:
 - Working in vicinity of live highway
 - Excavation work being undertaken
 - Deep excavations
 - Working on live foul sewers
- It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement. Contractor is not relieved of any of his obligations under all applicable health and safety regulations.

