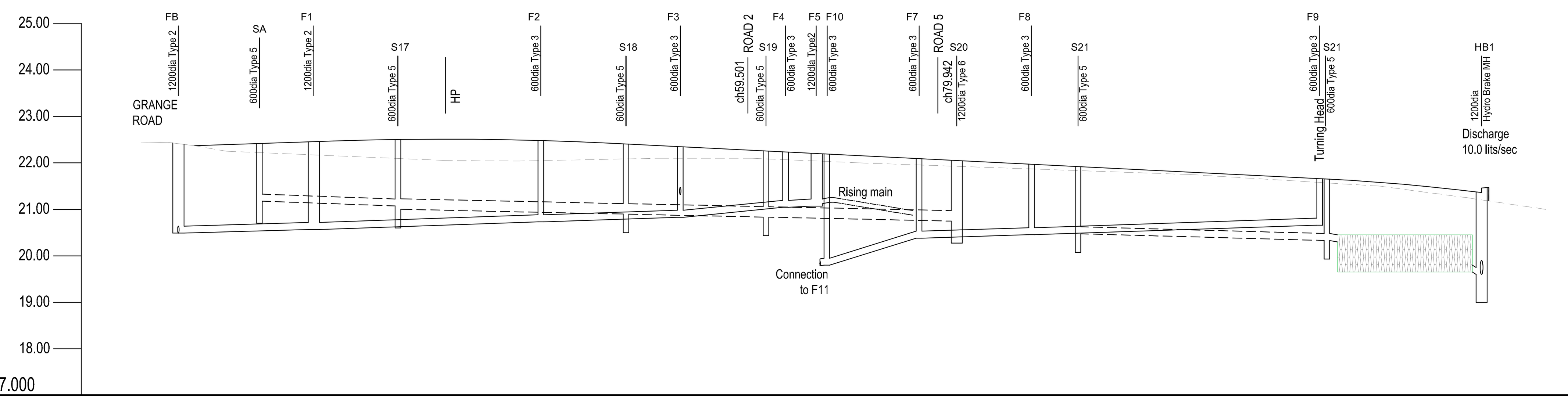
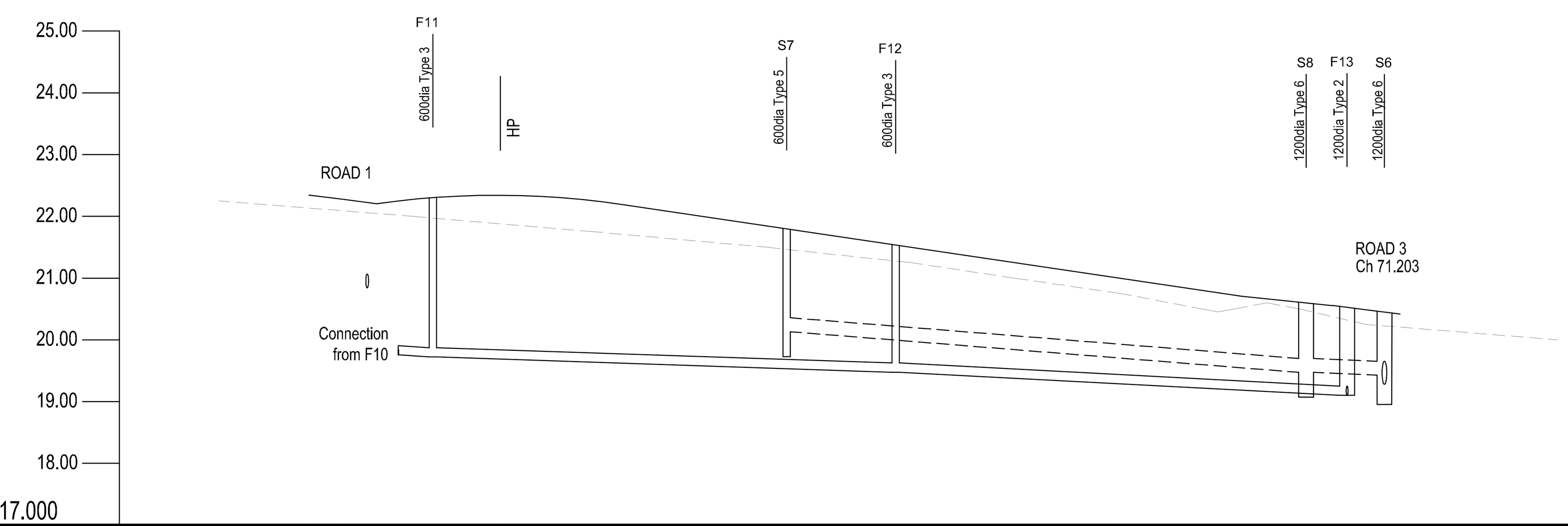
## ROAD 1




DATUM 17.000

| Band | Values |
|---|---|
| CHAINAGE | 0.00, 5.00, 10.00, 15.00, 20.00, 27.00, 30.00, 35.00, 40.00, 45.00, 50.00, 59.501, 60.00, 70.00, 79.942, 80.00, 90.00, 100.00, 110.00, 120.00, 121.614, 130.00, 138.870 |
| EXISTING GROUND LEVEL | 22.38, 22.44, 22.37, 22.25, 22.05, 22.04, 22.10, 22.10, 22.00, 21.75, 21.50, 21.25, 21.00 |
| ALIGNMENT ℄ LEVEL | Existing 22.370, 22.403, 22.437, 22.470, 22.496, 22.510, 22.507, 22.492, 22.463, 22.420, 22.370, 22.275, 22.270, 22.170, 22.071, 22.070, 21.970, 21.870, 21.770, 21.670, 21.654, 21.539, 21.360, 21.480 |
| VERTICAL ALIGNMENT | G= 0.667% 1: 150 L=15.00m; G1= 0.667% G2=-1.00% L= 30.00m; G= -1.00% 1: 100 L=76.614m; G1= -1.00% G2=-2.50% L= 16.772m |
| LEFT CHANNEL | 22.368, 22.427, 22.438, 22.394, 22.301, 22.201, 22.101, 22.001, 21.901, 21.801, 21.701, 21.601, 21.470 |
| RIGHT CHANNEL | 22.506, 22.565, 22.576, 22.532, 22.439, 22.339, 22.239, 22.139, 22.039, 21.939, 21.839, 21.739, 21.608 |
| SURFACE WATER DRAINAGE | 21.175; 150mm ESVC Bed S L=15.0m 1:150; 21.075; 21.000; 225mm ESVC Bed S L=24.7m 1:235; 20.895; 225mm ESVC Bed S L=14.6m 1:225; 20.830; 225mm ESVC Bed S L=19.9m 1:242; 20.748; 20.474; 150mm ESVC Bed S L=26.4m 1:150; 20.310; 20.300; Aquacell attenuation tank 4.0x15.0x0.8m; 19.65; 19.60 |
| FOUL DRAINAGE | 20.468; 150mm ESVC Bed S L=15.0m 1:150; 20.568; 150mm ESVC Bed S L=24.7m 1:150; 20.733; 150mm ESVC Bed S L=14.4m 1:26.8; 20.829; 150mm ESVC Bed S L=12.0m 1:55.8; 21.040; 21.071; 19.809; 150mm ESVC Bed S L=11.7m 1:20.4; 20.382; 150mm ESVC Bed S L=10.9m 1:150; 20.455; 150mm ESVC Bed Z L=30.8m 1:150; 20.661 |

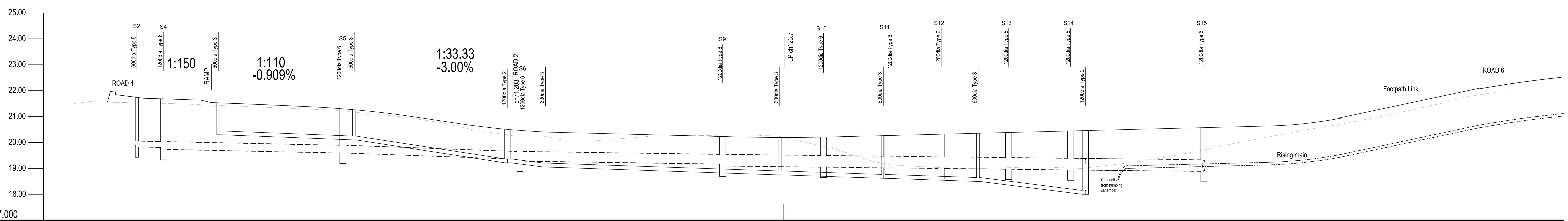
## ROAD 2




DATUM 17.000

| Band | Values |
|---|---|
| CHAINAGE | 0.00, 10.00, 20.00, 30.00, 40.00, 50.00, 60.00, 70.00, 77.342 |
| EXISTING GROUND LEVEL | 22.25, 22.00, 21.75, 21.50, 21.25, 21.00, 20.75, 20.50, 20.45, 20.50, 20.60, 20.50, 20.25, 20.00 |
| ALIGNMENT ℄ LEVEL | 22.344, 22.275, 22.206, 22.340, 22.187, 21.890, 21.594, 21.298, 21.001, 20.704, 20.555, 20.487, 20.419 |
| VERTICAL ALIGNMENT | G1= 2.78% G2=-2.96% L= 20.0m; G= -2.96% 1: 33.74 L=50.00m; G= -2.03% 1: 49.3 L=7.342m |
| LEFT CHANNEL | 22.409, 22.256, 21.959, 21.663, 21.367, 21.070, 20.773, 20.624 |
| RIGHT CHANNEL | 22.271, 22.119, 21.821, 21.525, 21.229, 20.932, 20.635, 20.486 |
| SURFACE WATER DRAINAGE | 20.851; 20.127; 225mm ESVC Bed S 41.9m 1:64.1; 19.473; 225mm ESVC Bed S 6.6m 1:150; 19.429; 19.279 |
| FOUL DRAINAGE | 19.724; 150mm ESVC Bed S L=37.3m 1:150; 19.475; 150mm ESVC Bed S L=36.8m 1:98.1; 19.101 |

## ROAD 3




DATUM 17.000

| Band | Values |
|---|---|
| CHAINAGE | 0.00, 5.00, 10.00, 11.00, 13.00, 15.00, 20.00, 25.00, 30.00, 32.368, 40.00, 50.00, 52.368, 60.00, 60.715, 70.00, 71.203, 80.00, 80.715, 90.00, 100.00, 110.00, 113.712, 120.00, 123.50, 130.00, 133.712, 140.00, 149.50, 150.00, 151.50, 160.00, 168.481, 170.00, 174.50, 180.00, 190.00, 193.481, 200.00, 210.00, 216.850, 220.00, 230.00, 230.957, 5.00, 10.00, 15.00, 20.00, 25.00, 26.769 |
| EXISTING GROUND LEVEL | 21.49, 21.58, 21.55, 21.50, 21.25, 21.00, 20.75, 20.50, 20.25, 20.25, 20.05, 20.05, 20.25, 20.29, 20.25, 20.00, 19.75, 19.50, 19.25, 19.13, 19.04, 19.00, 19.00, 19.00, 19.05, 19.05, 19.00, 19.25, 19.50, 19.75, 20.00, 20.25, 20.50, 20.75, 21.00, 21.25, 21.50, 21.75, 22.00 |
| ALIGNMENT ℄ LEVEL | 21.845, 21.776, 21.707, 21.674, 21.639, 21.632, 21.542, 21.526, 21.485, 21.441, 21.396, 21.374, 21.274, 21.051, 20.983, 20.754, 20.733, 20.508, 20.487, 20.386, 20.336, 20.286, 20.236, 20.196, 20.202, 20.249, 20.299, 20.349, 20.399, 20.449, 20.499, 20.549, 20.599, 20.661, 20.898, 20.933, 20.958, 21.170, 21.382, 21.593, 21.805, 22.017, 22.092 |
| VERTICAL ALIGNMENT | G= -0.667% 1: 150 7.368m; G1= -0.667% G2=-0.909% L= 20.00m; G= -0.909% 1: 110 7.368m; G1= -0.909% G2=-3.00% L= 20.00m; G= -3.00% 1: 33.33 L=8.346m; Chanel Blocks Required G1= -3.00% G2=-1.12% L= 20.00m; Chanel Blocks Required G= -0.5% 1: 200 L=32.997m; Chanel Blocks Required G1= -0.5% G2=3.705% L= 25.00m; Chanel Blocks Required G=0.5% 1: 200 L=83.138m; G1=0.5% G2=3.725% L= 14.00m; G= 4.2% 1: 23.6 L=26.769m |
| LEFT CHANNEL | 21.638, 21.570, 21.416, 21.327, 21.205, 20.982, 20.685, 20.439, 20.317, 20.267, 20.217, 20.167, 20.127, 20.133, 20.180, 20.230, 20.280, 20.330, 20.380, 20.430, 20.480, 20.530, 20.592, 20.829 |
| RIGHT CHANNEL | 21.776, 21.708, 21.554, 21.465, 21.343, 21.120, 20.823, 20.577, 20.455, 20.405, 20.355, 20.305, 20.265, 20.271, 20.318, 20.368, 20.418, 20.468, 20.518, 20.568, 20.618, 20.668, 20.730, 20.967 |
| SURFACE WATER DRAINAGE | 225mm ESVC Bed S 5.1m 1:255; 19.902; 19.827; 19.807; 19.732; 30mm ESVC Bed S 34.7m 1:249.6; 19.593; 300mm ESVC Bed Z 34.7m 1:145.2; 19.354; 19.279; 375mm ESVC Bed Z 39.2m 1:350; 19.167; 19.092; 450mm ESVC Bed Z 19.6m 1:445.5; 19.048; 450mm ESVC Bed Z 12.4m 1:459.3; 19.021; 450mm ESVC Bed Z 10.8m 1:450; 18.997; 450mm ESVC Bed Z 13.4m 1:446.7; 18.967; 450mm ESVC Bed Z 12.2m 1:451.9; 18.940; 450mm ESVC Bed Z 26.0m 1:456.7; 18.883 |
| FOUL DRAINAGE | 20.300; 150mm ESVC Bed Z L=25.8m 1:129; 20.101; 150mm ESVC Bed Z L=30.0m 1:30; 19.101; 150mm ESVC Bed S L=7.2m 1:150; 19.052; 150mm ESVC Bed S L=45.0m 1:150; 18.752; 150mm ESVC Bed S L=19.8m 1:150; 18.620; 150mm ESVC Bed S L=18.3m 1:150; 18.498; 150mm ESVC Bed S L=20.8m 1:41.8; 18.000; 19.049; 19.099; 19.160; 90mmOD PE 100 SDR foul rising main (TBC); 19.856; 20.280; 20.567 |

Notes:

All works to be in acordance with Southern Water and Design & Construction Guidance/ Sewer Section Guidance Specifications.
Sewer lengths are measured centre to centre of manholes.
Where cover to crown of VC pipes is less than 1.2m then Bed CS to be used
Manholes to have D400 covers and frames
Foul water sewer discharge level to be confirmed prior to any drainage work commencing.
Engineer to be advised if there is ANY discrepency to these levels

| Rev. | Date | Details | Initials |
|---|---|---|---|
| C | 06.01.23 | Road 3 drainage amended, levels & aquacell tank added | KN |
| B | 12.12.22 | Drainage added | KN |
| A | 21.11.22 | First Issue | KN |

Drawing Status
PRELIMINARY FOR TENDER

Project
GRANGE ROAD
NETLEY

Client
ELIVIA HOMES

KAZYS NARBUTAS CONSULTING
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Unit 24b, Romsey Industrial Estate, Greatbridge Road, Romsey, Hants. SO51 0HE
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Drawing Title
Engineering Details
Longitudinal Sections:Sheet 1

| Drawn | Checked | Scales | Paper Size | Date |
|---|---|---|---|---|
| KN | KHN | H: 1-500 V:1-100 | A1 | 11.22 |

| Job No. | Drawing No. | Revision |
|---|---|---|
| KNC2114 | 503-01 | C |

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