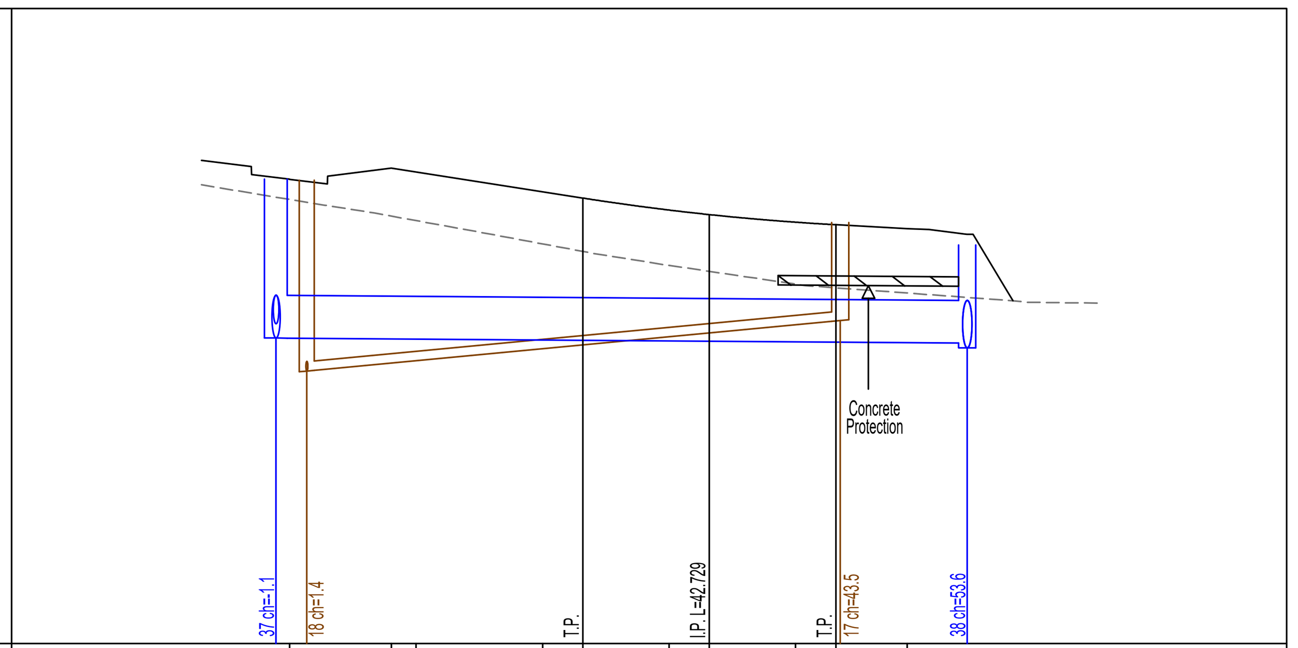
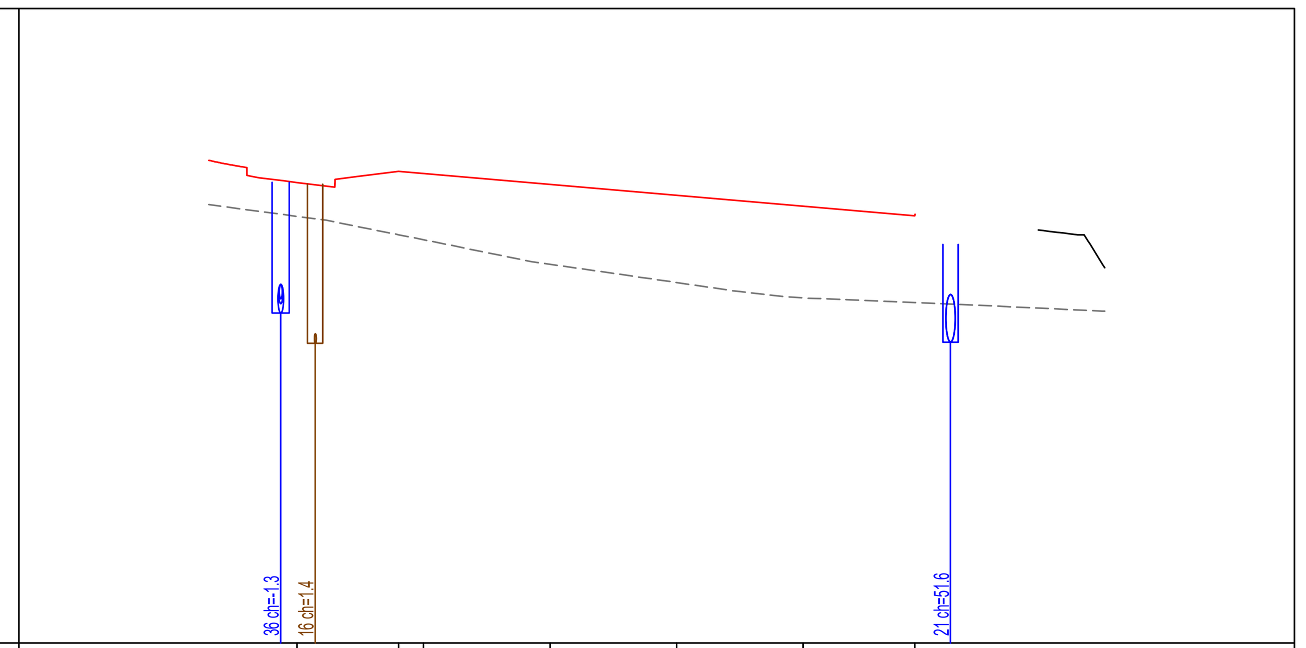
Road 9



Datum: 36.000M AOD

CHAINAGE ON CENTRELINE (m)	0.000, 8.039, 10.000, 20.000, 23.177, 30.000, 33.177, 40.000, 43.177, 48.814
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	43.339, 43.515, 43.453, 43.141, 43.042, 42.852, 42.780, 42.660, 42.621, 42.559
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT -3.1% (-1 in 32) LENGTH = 15.137m; SAG CURVE K = 9.813 L = 20.000; G = -1.1%
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 40.775m
EXISTING LEVELS (m)	42.756, 42.686, 42.317, 42.198, 41.977, 41.883, 41.681, 41.623, 41.541
MANHOLE COVER LEVELS APPROX (m)	43.343, 43.325, 42.655, 42.300
FOUL WATER SEWER INVERT LEVELS (m)	40.307; 150Ø 1/53 L=42.17 PN=5.000; 41.105
SURFACE WATER SEWER INVERT LEVELS (m)	40.829; 675Ø 1/675 L=54.64 PN=4.005; 40.748
MANHOLE DIAMETER (mm)	Type B 1800; 1200 Type B; Type C 1350; Unknown 1350

Road 10

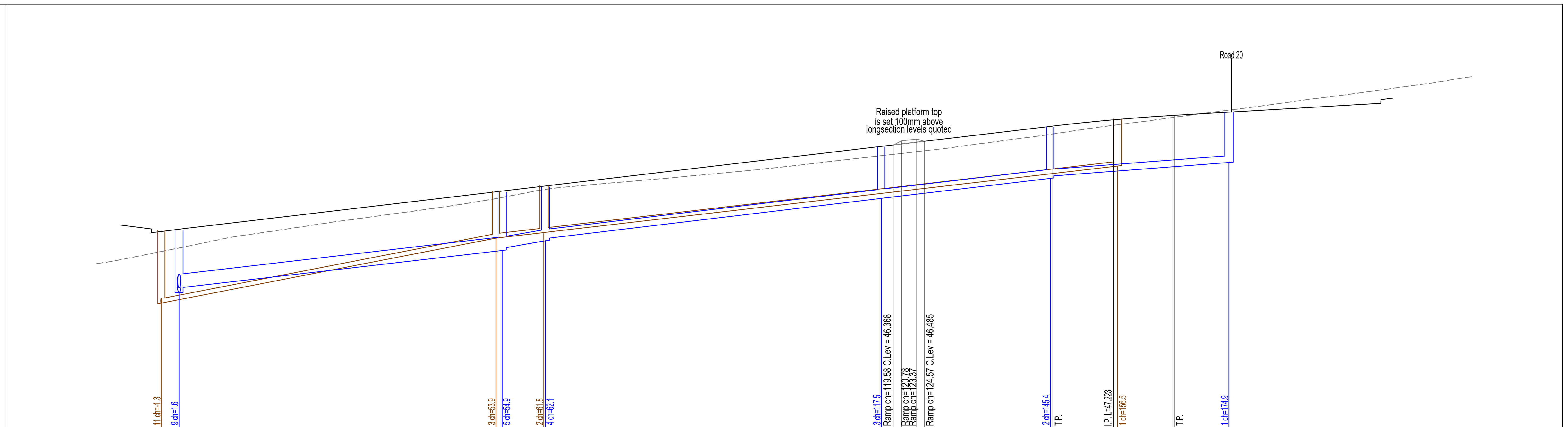


Vertical Exaggeration: 5

Datum: 36.000M AOD

CHAINAGE ON CENTRELINE (m)	0.000, 8.039, 10.000, 20.000, 30.000, 40.000, 48.818
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	43.279, 43.454, 43.421, 43.249, 43.077, 42.904, 42.753
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT -1.7% (-1 in 58) LENGTH = 40.779m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 20.398m; STRAIGHT LENGTH = 20.371m
EXISTING LEVELS (m)	42.452, 42.374, 41.986, 41.697, 41.455, 41.381
MANHOLE COVER LEVELS APPROX (m)	43.280, 43.251, 42.300
FOUL WATER SEWER INVERT LEVELS (m)	40.735
SURFACE WATER SEWER INVERT LEVELS (m)	41.213, 40.754
MANHOLE DIAMETER (mm)	Type B 1350; Type B 1200; Unknown 1200

Road 12



Vertical Exaggeration: 5

Datum: 37.000M AOD

CHAINAGE ON CENTRELINE (m)	0.000, 3.000, 10.000, 20.000, 30.000, 40.000, 50.000, 60.000, 70.000, 80.000, 90.000, 100.000, 110.000, 120.000, 130.000, 140.000, 145.814, 150.000, 155.814, 160.000, 165.814, 170.000, 180.000, 190.000, 199.944
LEVELS ON CENTRELINE OF CARRIAGEWAY (m)	43.540, 43.615, 43.781, 44.017, 44.253, 44.489, 44.725, 44.961, 45.197, 45.433, 45.669, 45.905, 46.141, 46.378, 46.614, 46.850, 46.987, 47.081, 47.193, 47.262, 47.340, 47.388, 47.505, 47.621, 47.737
VERTICAL DESIGN ON CARRIAGEWAY CENTRELINE	GRADIENT 2.4% (1 in 42) LENGTH = 142.814m; HOG CURVE K = 16.723 L = 20.000; GRADIENT 1.2% (1 in 86) LENGTH = 34.130m
HORIZONTAL DESIGN ON CARRIAGEWAY CENTRELINE	STRAIGHT LENGTH = 48.371m; CURVE R = 9.800 L = 13.781; STRAIGHT LENGTH = 134.255m
EXISTING LEVELS (m)	43.020, 43.311, 43.607, 43.898, 44.172, 44.463, 44.827, 45.056, 45.231, 45.413, 45.610, 45.836, 46.066, 46.302, 46.568, 46.725, 46.851, 47.010, 47.119, 47.276, 47.388, 47.643, 47.918, 48.179
MANHOLE COVER LEVELS APPROX (m)	43.537, 43.546, 44.836, 44.807, 45.021, 44.974, 46.300, 46.959, 47.223, 47.428
FOUL WATER SEWER INVERT LEVELS (m)	41.141; 150Ø 1/26 L=54.94 PN=1.002; 43.286, 43.286; 150Ø 1/39 L=7.14 PN=1.001; 43.471, 43.471; 150Ø 1/43 L=94.35 PN=1.000; 45.669
SURFACE WATER SEWER INVERT LEVELS (m)	41.643; 450Ø 1/44 L=53.86 PN=1.004; 42.879, 42.954; 375Ø 1/33 L=8.03 PN=1.003; 43.199, 43.274; 300Ø 1/42 L=55.84 PN=1.002; 44.600, 44.600; 300Ø 1/42 L=27.88 PN=1.001; 45.259, 45.334; 225Ø 1/66 L=29.50 PN=1.000; 45.784
MANHOLE DIAMETER (mm)	Type B 1200; Unknown 1350; Unknown 1200; 1350 Type C; Type C 1350; 1350 Type C; Unknown 1200; Unknown 1200; Type C 1350; Type C 1350

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Manhole Schedule/Longsection:

1. Do not scale.
2. This drawing is to be read in conjunction with and checked against all other drawings, Engineering details, Specification and any structural, Geotechnical or other specialist document provided.
3. Site layout shown for context only, refer to other project drawings for details.
4. All adoptable drainage works to be constructed as detailed in design and construction guidance or as stipulated in the water authorities addendum.
5. All public sewers are to be the subject of a section 104 agreement of the water industry act 1991.
6. Invert levels of existing manholes and sewers are to be checked on site before construction commences and results reported to engineers.
7. The contractor is responsible for maintaining continuity of flow for all existing sewers within the site boundary and limit of works for the duration of the project.
8. All drainage ironworks to comply with bs en124, and be stamped with bsi kitemark. covers to suit loading as below;
   - -carriageways and roads - d400
   - -driveways and verges - c250
   - -footways and pedestrian areas - b125
   - -gardens/landscaping - a15
9. All sewer pipes, up to, and including 225mm are to be vitrified clay to BS EN295. All sewer pipes 300mm diameter and above to be concrete pipes to BS EN1916. Where agreed with adopting authority pipes up to and including 600mm diameter can be PVC-U to BS EN1404.
10. All drainage shall be installed and tested strictly in accordance with the manufacturers' printed instructions, bs en 752, bs en 1601, local water authority requirements and the building regulations.
11. All bedding shall be class s unless noted otherwise.
12. All trenches under existing and proposed public highways are to be backfilled with thoroughly compacted type 1 granular sub-base material.
13. Drainage laid beneath roads and areas of vehicular access (car parking etc) with less than 1200mm of cover shall be encased in concrete bed and surround with associated movement joints. drainage laid beneath paths, footways and pedestrian areas with less than 900mm of cover shall be similarly treated.
14. Chambers with outgoing pipes greater than 600mm diameter shall be fitted with guard bars, safety chains or other approved safety devices.
15. The use of precast concrete products made with sulphate resisting cement is mandatory, unless a laboratory report proves such precautions are not necessary.
16. All sewers to be abandoned must be surveyed to identify any lateral connections that are still live with any found to be reported to the engineer.
17. All foul and storm water drains which are not to be adopted as public sewers shall be in accordance with document h of the building regulations, together with nhbc standards chapter 5.3 and bs8301.
18. Where pipes pass through footings, retaining or screen walls, lintels to be provided over drains.
19. Where inverts are less than 0.6m deep inspection chambers (min dia. 190mm) or access fittings (225 x 100mm) to be used, elsewhere proprietary plastic, brick or pcc is to be used and sized in accordance with table 11 of document h of the building regulations [<0.6m to invert min dn300, >0.6m to invert min dn475].
20. Where required 1m deep root barrier of an approved type to be installed vertically along the back edging kerb of all areas of footway/ demarcation to protect from both proposed and future plantation.
21. Construction details subject to refinement through detailed design/technical approval process.

KEY:

- EXISTING GROUND PROFILE
- PROPOSED CENTERLINE PROFILE
- PROPOSED SURFACE WATER
- PROPOSED FOUL SEWER
- CONCRETE PROTECTION

0 5 10 15 20 25m
Scale 1:500

Rev	Date	Description	Drawn	Checked
B	08.24	Updated to suit latest layout & drainage design	LC	DS
A	07.24	First Issue	LC	DS

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Client
BELLWAY HOMES

Project
LAND NORTH OF ARBORFIELD ROAD, SHINFIELD

Title
FULL APPLICATION LONGITUDINAL SECTIONS SHEET 3

Status

Scale	Date	Drawn	Checked
1:500 H @ A1 1:100 V	JUNE 2024	LC	DS

Drawing No	Revision
HD008-FA-153	B