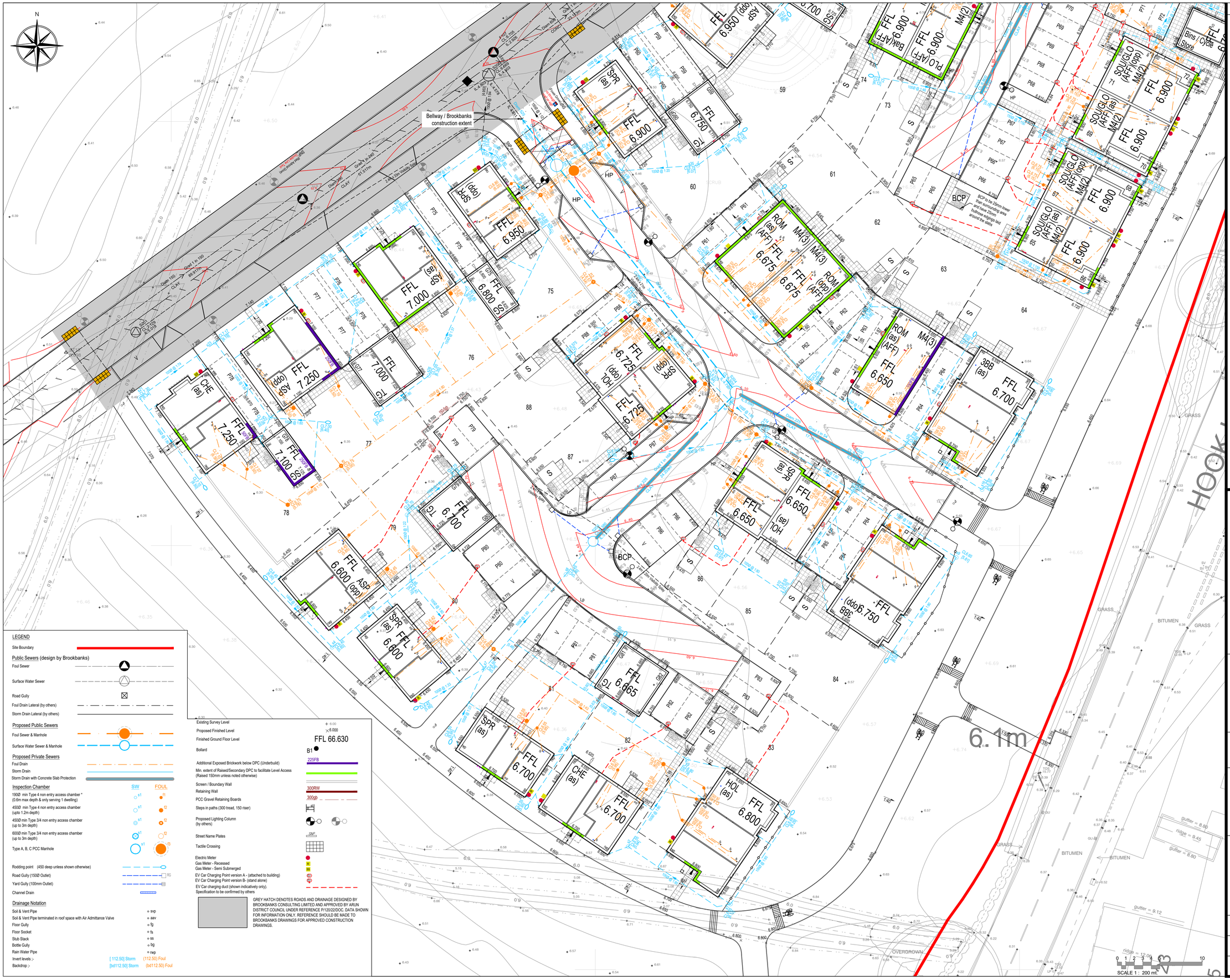
Appendix A – As-Built Drawings

Construction drawings by Withers Design Associates

- 22-012-020_Engineering Layout Sheet 1_For Construction_C16
- 22-012-021_Engineering Layout Sheet 2_For Construction_C24
- 22-012-022_Engineering Layout Sheet 3_For Construction_C24
- 22-012-023_Engineering Layout Sheet 4_For Construction_C20
- 22-012-024_Engineering Layout Sheet 5_For Construction_C18
- 22-012-250_Road Setting Out Sheet 1_For Construction_C3
- 22-012-251_Road Setting Out Sheet 2_For Construction_C5
- 22-012-252_Road Setting Out Sheet 3_For Construction_C5
- 22-012-253_Road Setting Out Sheet 4_For Construction_C5
- 22-012-254_Road Setting Out Sheet 5_For Construction_C5
- 22-012-255_Road Setting Out Data_For Construction_C1
- 22-012-300_Road and Sewer Long Sections Sheet 1_For Construction_C1
- 22-012-301_Road and Sewer Long Sections Sheet 2_For Construction_C3
- 22-012-302_Road and Sewer Long Sections Sheet 3_For Construction_C2
- 22-012-303_Road and Sewer Long Sections Sheet 4_For Construction_C3
- 22-012-600_Drainage Construction details Sheet 1_For Construction_C2
- 22-012-601_Drainage Construction details Sheet 2_For Construction_C1
- 22-012-602_Drainage Construction details Sheet 3_For Construction_C1
- 22-012-650_Manhole Schedules Surface Water Sheet 1_For Construction_C2
- 22-012-651_Manhole Schedules Surface Water Sheet 2_For Construction_C3
- 22-012-652_Manhole Schedules Foul Water Sheet 1_For Construction_C4
- 22-012-653_Manhole Schedules Foul Water Sheet 2_For Construction_C7
- 22-012-700_S104 Layout Sheet 1_For Construction_C1
- 22-012-701_S104 Layout Sheet 2_For Construction_C1
- 10831-100-111_General Arrangement- Sheet 1_For Information_K
- 10831-100-112_General Arrangement- Sheet 2_For Information_K

Construction drawings by Brookbanks – Bellway's area including the masterplanning SuDS

- 10831-100-111_General Arrangement- Sheet 1_For Information_K
- 10831-100-112_General Arrangement- Sheet 2_For Information_K
- 10831-100-132E Standard Construction Details- Sheet 2 (2)
- 10831-500-501_Adoptable Drainage Layout- Sheet 1_For Information_R
- 10831-500-502_Adoptable Drainage Layout- Sheet 2_For Information_N
- 10831-500-550_Adoptable Drainage Longsections- Sheet 1_For Information_D
- 10831-500-551_Adoptable Drainage Longsections- Sheet 2_For Information_E
- 10831-500-552_Adoptable Drainage Longsections- Sheet 3_For Information_E
- 10831-500-553_Adoptable Drainage Longsections- Sheet 4_For Information_D
- 10831-500-554_Adoptable Drainage Longsections- Sheet 5_For Information_E
- 10831-500-555_Adoptable Drainage Longsections- Sheet 6_For Information_E
- 10831-500-556_Adoptable Drainage Longsections- Sheet 7_For Information_E
- 10831-500-557_Adoptable Drainage Longsections- Sheet 8_For Information_E
- 10831-500-558_Adoptable Drainage Longsections- Sheet 9_For Information_D
- 10831-500-559_Adoptable Drainage Longsections- Sheet 10_For Information_D
- 10831-500-560_Adoptable Drainage Longsections - Sheet 11_For Information_D
- 10831-500-580_Adoptable Drainage Schedules- Sheet 1_For Information_F
- 10831-500-581_Adoptable Drainage Schedules- Sheet 2_For Information_H
- 10831-500-582_Adoptable Drainage Schedules Sheet 3_For Information_H
- 10831-500-583_Adoptable Drainage Schedules- Sheet 4_For Information_G
- 10831-500-584_Adoptable Drainage Schedules- Sheet 5_For Information_H
- 10831-500-585_Adoptable Drainage Schedules - Sheet 6_For Information_K
- 10831-500-586_Adoptable Drainage Schedules- Sheet 7_For Information_E
- 10831-500-587_Adoptable Drainage Schedules- Sheet 8_For Information_J
- 10831-502-001_Watercourse Diversion Plan & Section_For Information_H
- 10831-502-002_Watercourse Diversion Typical Cross Sections_For Information_#
- 10831-502-003_Watercourse Diversion Cross Section- Plan_For Information_C
- 10831-502-004_Watercourse Diversion Cross Section- Sheet 1_For Information_B
- 10831-502-005_Watercourse Diversion Cross Section- Sheet 2_For Information_B
- 10831-503-001_Watercourse Setting Out_For Information_A
- 10831-520-102_Standard Details_For Information_#



LEGEND

Site Boundary

Public Sewers (design by Brookbanks)

Foul Sewer

Surface Water Sewer

Road Gully

Foul Drain Lateral (by others)

Storm Drain Lateral (by others)

Proposed Public Sewers

Foul Sewer & Manhole

Surface Water Sewer & Manhole

Proposed Private Sewers

Foul Drain

Storm Drain

Storm Drain with Concrete Slab Protection

Inspection Chamber — SW / FOUL

1900Ø min Type 4 non entry access chamber * (0.6m max depth & only serving 1 dwelling)

4500Ø min Type 4 non entry access chamber (upto 1.2m depth)

4500Ø min Type 3/4 non entry access chamber (up to 3m depth)

6000Ø min Type 3/4 non entry access chamber (up to 3m depth)

Type A, B, C PCC Manhole

Rodding point (450 deep unless shown otherwise)

Road Gully (150Ø Outlet)

Yard Gully (100mm Outlet)

Channel Drain

Drainage Notation

Soil & Vent Pipe — svp

Soil & Vent Pipe terminated in roof space with Air Admittance Valve — aav

Floor Gully — fg

Floor Socket — fs

Stub Stack — ss

Bottle Gully — bg

Rain Water Pipe — rwp

Invert levels :- [112.50] Storm (112.50) Foul

Backdrop :- [bd112.50] Storm (bd112.50) Foul

Existing Survey Level + 6.00

Proposed Finished Level x6.000

Finished Ground Floor Level FFL 66.630

Bollard B1

Additional Exposed Brickwork below DPC (Underbuild) 225FB

Min. extent of Raised/Secondary DPC to facilitate Level Access (Raised 150mm unless noted otherwise)

Screen / Boundary Wall

Retaining Wall 300RW

PCC Gravel Retaining Boards 300gb

Steps in paths (300 tread, 150 riser)

Proposed Lighting Column (by others)

Street Name Plates SNP

Tactile Crossing

Electric Meter

Gas Meter - Recessed

Gas Meter - Semi Submerged

EV Car Charging Point version A - (attached to building)

EV Car Charging Point version B- (stand alone)

EV Car charging duct (shown indicatively only). Specification to be confirmed by others

GREY HATCH DENOTES ROADS AND DRAINAGE DESIGNED BY BROOKBANKS CONSULTING LIMITED AND APPROVED BY ARUN DISTRICT COUNCIL UNDER REFERENCE P/120/22/DOC. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR APPROVED CONSTRUCTION DRAWINGS.

No Dimensions are to be scaled from this drawing.

NOTES

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2. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref: 29477) dated January 2021.
3. All Adoptable drainage works are to be constructed as detailed in Sewer Sector Guidance (SSG) Appendix C: Design & Construction Guidance to the satisfaction of IWNL.
4. All private drainage is to be constructed, in accordance with the Building Regulations 2000, BS EN 752 (Parts 1-7) and where appropriate the relevant Agreement Certificates.
5. For typical drainage construction details see drawing series 22-012/600 to 602.
6. Private Drains are to be constructed using Polypipe or HS Funke plastic pipes bedded and backfilled as per the manufacturers instructions and the publications listed in 4 above. Where clay pipes are required they shall be Hepworth "SuperSleve/Hepsleve/ Hepseal vitrified clay pipes as appropriate.
7. All drains to be 100mm dia unless stated otherwise. Drains serving more than 10 properties are to be 150mm minimum diameter.
8. Private drains located adjacent to dwellings are to be constructed in accordance with Fig.8 of Approved Document H1.
9. Drainage in "made" or "soft" ground is to be laid in accordance with Technical Advice notes by the Clay Pipe Development Association and where appropriate, the Concrete Pipe Association, and should generally be laid using short length pipes on Class B bedding on 600mm crushed and compacted concrete with 75mm concrete blinding beneath the Class "B" bed.
10. Inspection Chambers on private drains up to 3m depth are to be Type 3 to 4, preformed polypropylene or clayware depending on location and number of connections. Where the above criteria do not apply precast concrete sections with 150mm concrete surround should be used as below:-

Invert Depth	Min Size	Min Access Size
<1.5m	1.2Ø or 1.20 x 0.675	1.20 x 0.675
>1.5m	1.2Ø or 1.20 x 1.00	0.60 x 0.60

(See Table 12 of App. Doc. H1)

12. Rainwater downpipes to be connected direct to drain via adaptor, removable to permit access for rodding.
13. Where back inlet gullies are used they should be roddable.
14. Lintels or sleeves are to be provided for drains passing through foundations or walls in accordance with Diagram 7 of App. Doc. H1.
15. Positions of rainwater pipes, soil pipes, stubstacks, W.C. outlets, etc. are shown on the Architects working drawings.
16. All Stated internal levels are FINISHED FLOOR LEVELS. Garage levels refer to Finished Screed Level at the garage door.
17. All private drains beneath Public Highways, existing trees and screen/retaining wall foundations are to be surrounded with 150mm concrete. Drains beneath tree canopys are to be hand dug.
18. Pipes with less than 0.9m cover in vehicular areas and 0.6m cover in non-vehicular areas are to be protected in accordance with the manufacturers shallow trench detail.
19. Prior to the commencement of works the groundworks Contractor shall investigate all drainage outfalls and satisfy themselves & Vistry (Kent) of the level, diameter and suitability of the outfall point.
20. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.
21. All Redundant sewers and drains to be wholly removed of filled with cementuous grout over the full redundant length.

REVISIONS

P1-C1	Refer to 4Projects for previous revisions.	
C2	Tanking legend updated. Plot 81/82 garage level changed.	13/01/23
C3	Pergola's removed from parking to plots 79-83. Levels to parking bays 79-83 changed. Manhole reference changed to suit Adoptable extent. RWP's amended to plots 6-9, 18-19, 23-24, 43-44, 65-75 & 86-88.	16/02/23
C4	Bin collection point changed from soft to hard landscape finish. Handing label corrected on Aspen house type.	06/03/23
C5	Notes 3 amended from ICOSA to IWNL.	06/04/23
C6	Additional level information added to all garages. Front path gradients added to all plots.	18/04/23
C7	RWP changes to housetypes Mulberry, Spruce, Maple, Quad Car Port, Single Garage and Sales Garage.	20/06/23
C8	FS added to plots 47-50, 61-62 & 63 for washing machine	04/07/23
C9	Site Levels updated as clouded following site wide review	20/10/23
C10	Tactile paving added to the Cycle path, levels to the rear of plots 73-74 revised in line with part M4(2) advice.	10/11/23
C11	Note in key revised as clouded	20/02/24
C12	Planning ref number added to the note in the key	20/02/24
C13	Note in Key revised to planners comments	21/02/24
C14	25mm Bullnose kerbs added to BCP to the front of plot 65	15/03/24
C15	Street Name Plate information added.	29/05/24
C16	Rear Path level to plot 73 revised, top of kerb levels added to front door.	17/07/24

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE

ENGINEERING LAYOUT
Sheet 1 of 5

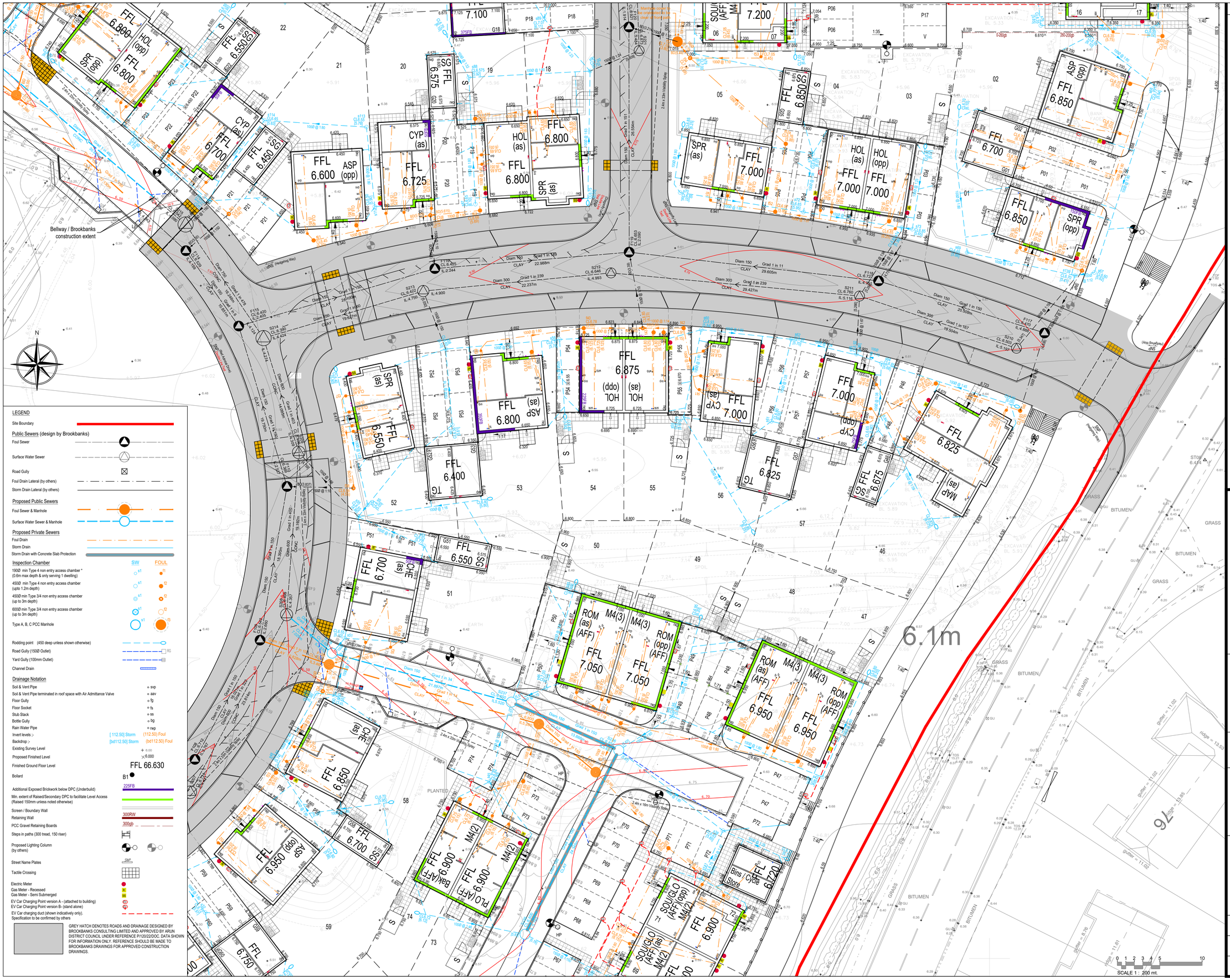
Sheet Layout: 01 | 02 | 03 | 04 | 05

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS: CONSTRUCTION

DRG NO: 22-012/020

REVISION: C16



No Dimensions are to be scaled from this drawing.

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4. All private drainage is to be constructed, in accordance with the Building Regulations 2000, BS EN 752 (Parts 1-7) and where appropriate the relevant Agrement Certificates.
5. For typical drainage construction details see drawing series 22-012/800 to 602.
6. Private Drains are to be constructed using Polypipe or HS Funke plastic pipes bedded and backfilled as per the manufacturers instructions and the publications listed in 4 above. Where clay pipes are required they shall be Hepworth "SuperSleve/Hepsleve/ Hepseal vitrified clay pipes as appropriate.
7. All drains to be 100mm dia unless stated otherwise. Drains serving more than 10 properties are to be 150mm minimum diameter.
8. Private drains located adjacent to dwellings are to be constructed in accordance with Fig.8 of Approved Document H1.
9. Drainage in "made" or "soft" ground is to be laid in accordance with Technical Advice notes by the Clay Pipe Development Association and where appropriate, the Concrete Pipe Association, and should generally be laid using short length pipes on Class B bedding on 600mm crushed and compacted concrete with 75mm concrete blinding beneath the Class "B" bed.
10. Inspection Chambers on private drains up to 3m depth are to be Type 3 to 4, preformed polypropylene or clayware depending on location and number of connections. Where the above criteria do not apply precast concrete sections with 150mm concrete surround should be used as below:-

Invert Depth	Min Size	Min Access Size
<1.5m	1.2Ø or 1.20 x 0.675	1.20 x 0.675
>1.5m	1.2Ø or 1.20 x 1.00	0.60 x 0.60

(See Table 12 of App. Doc. H1)

11. Rainwater downpipes to be connected direct to drain via adaptor, removable to permit access for rodding.
12. Where back inlet gullies are used they should be roddable.
13. Lintels or sleeves are to be provided for drains passing through foundations or walls in accordance with Diagram 7 of App. Doc. H1.
14. Positions of rainwater pipes, soil pipes, stubstacks, W.C. outlets, etc. are shown on the Architects working drawings.
15. All Stated internal levels are FINISHED FLOOR LEVELS. Garage levels refer to Finished Screed Level at the garage door.
16. All private drains beneath Public Highways, existing trees and screen/retaining wall foundations are to be surrounded with 150mm concrete. Drains beneath tree canopys are to be hand dug.
17. Pipes with less than 0.9m cover in vehicular areas and 0.6m cover in non-vehicular areas are to be protected in accordance with the manufacturers shallow trench detail.
18. Prior to the commencement of works the groundworks Contractor shall investigate all drainage outfalls and satisfy themselves & Vistry (Kent) of the level, diameter and suitability of the outfall point.
19. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.
20. All Redundant sewers and drains to be wholly removed of filled with cementuous grout over the full redundant length.

REVISIONS

C4	Manholes rotated to SVP's intake. Handing label corrected on Aspen house type.	06/03/23
C5	Notes 3 amended from ICOSA to IWNL.	06/04/23
C6	Additional level information added to all garages. Front path gradients added to all plots.	18/04/23
C7	Plot 47 changed to M4(3) unit and associated parking bays.	05/05/23
C8	RWP changes to housetypes Mulberry, Spruce, Maple, Quad Car Port, Single Garage and Sales Garage.	20/06/23
C9	FS added to plots 47-50, 61-62 & 63 for washing machine foul run in plot 5 revised	04/07/23
C10	Foul revised to plots 3 - 5	07/07/23
C11	Head FW Chambers to Plots 3-6 repositioned.	10/07/23
C12	Manhole f28 updated & f26-f27 gradients updates.	25/09/23
C13	Manhole F126-F127 & f28 updated.	26/09/23
C14	Site Levels updated as clouded following site wide review	20/10/23
C15	Tactile paving added to the Cycle path, levels to the rear of plots 73-74 revised in line with part M4(2) advice.	10/11/23
C16	Note in key revised as clouded	20/02/24
C17	Planning ref number added to the note in the key	20/02/24
C18	Note in Key revised to planners comments	21/02/24
C19	Entrance path to plot 7 revised	07/03/24
C20	Street Name Plates added adjacent plots 21 & 52	18/03/24
C21	Boundary Wall to plots 46-47 revised	24/04/24
C22	Street Name Plate information added.	29/05/24
C23	Street Name Plates removed adjacent plot 24 & 52	04/06/24
C24	Rear Path level to plot 73 revised, top of kerb levels added to front door.	17/07/24

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
ENGINEERING LAYOUT
Sheet 2 of 5

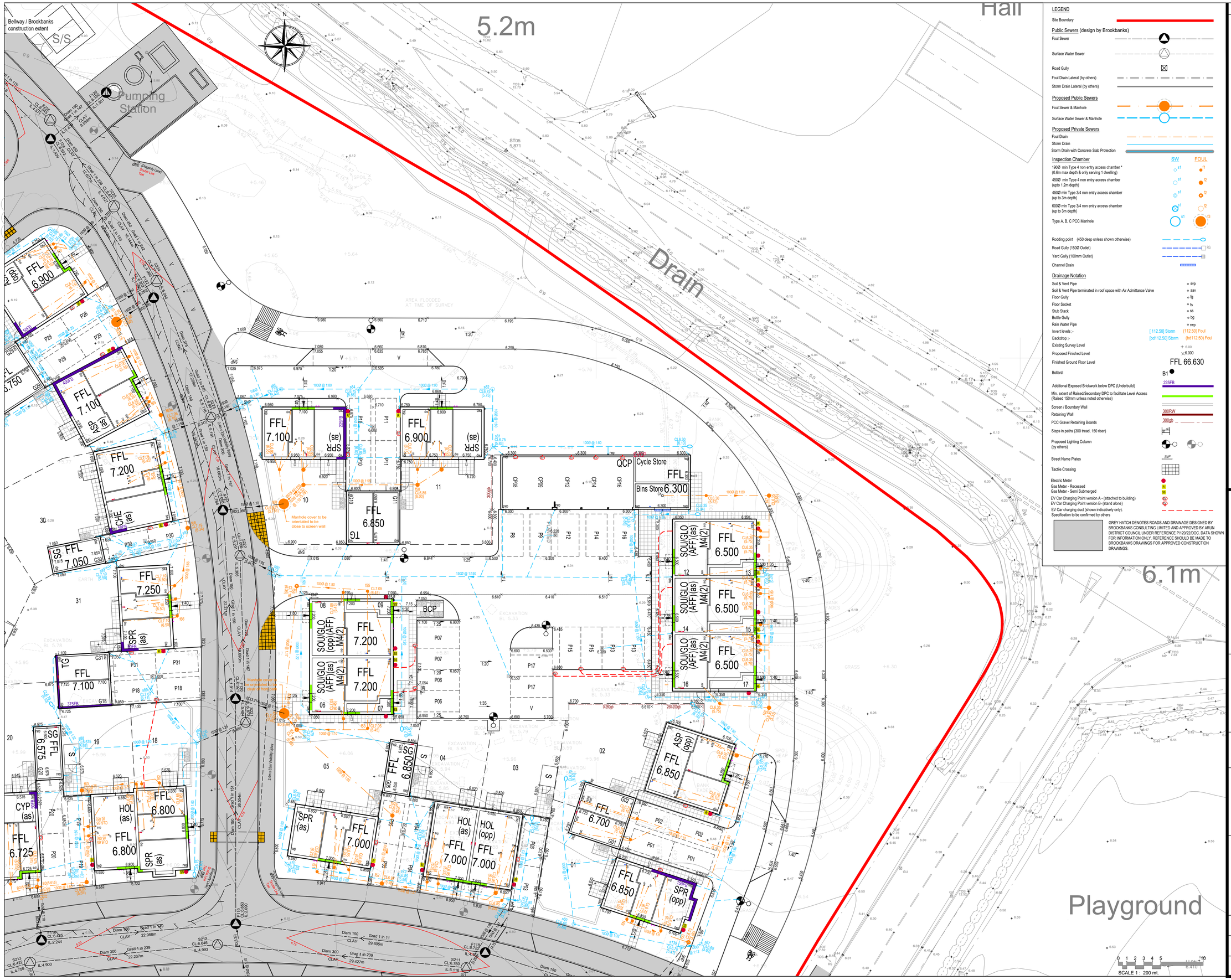
05 04 03 02 01
Sheet Layout

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS
CONSTRUCTION

DRG NO **22-012/021** REVISION **C24**

SCALE 1 : 200 mt.


Bellway / Brookbanks construction extent
S/S
Pumping Station
5.2m
Hall
Drain
6.1m
Playground
AREA FLOODED AT TIME OF SURVEY
24m x 33m Velocity Splay
Manhole cover to be orientated to be close to screen wall
Cycle Store
Bins Store
FFL 6.300
QCP
BCP
FFL 6.900
FFL 7.100
FFL 7.200
FFL 7.050
FFL 7.250
FFL 6.575
FFL 6.725
FFL 6.800
FFL 6.850
FFL 7.000
FFL 6.700
FFL 6.500
SOU/GLO (AFF) M4(2)
SOU/GLO (opp) (AFF) M4(2)
SOU/GLO (AFF) (as) M4(2)
SPR (as)
SPR (opp)
HOL (as)
HOL (opp)
ASP (opp)
CHE (as)
CYP (as)
TG
SG
Dwarf Wall
Timber Fence
Hedge
Tree
Grad 1 in 29
Grad 1 in 11
Grad 1 in 239
Grad 1 in 167
Grad 1 in 147
Grad 1 in 100
Grad 1 in 140
Grad 1 in 150
Grad 1 in 167
Grad 1 in 1000
Grad 1 in 1000
Grad 1 in 1000

LEGEND

Site Boundary

Public Sewers (design by Brookbanks)

Foul Sewer

Surface Water Sewer

Road Gully

Foul Drain Lateral (by others)

Storm Drain Lateral (by others)

Proposed Public Sewers

Foul Sewer & Manhole

Surface Water Sewer & Manhole

Proposed Private Sewers

Foul Drain

Storm Drain

Storm Drain with Concrete Slab Protection

Inspection Chamber — SW — FOUL

1900Ø min Type 4 non entry access chamber * (0.6m max depth & only serving 1 dwelling)

4500Ø min Type 4 non entry access chamber (upto 1.2m depth)

4500Ø min Type 3/4 non entry access chamber (up to 3m depth)

6000Ø min Type 3/4 non entry access chamber (up to 3m depth)

Type A, B, C PCC Manhole

Rodding point (450 deep unless shown otherwise)

Road Gully (150Ø Outlet)

Yard Gully (100mm Outlet)

Channel Drain

Drainage Notation

Soil & Vent Pipe — svp

Soil & Vent Pipe terminated in roof space with Air Admittance Valve — aav

Floor Gully — fg

Floor Socket — fs

Stub Stack — ss

Bottle Gully — bg

Rain Water Pipe — rwp

Invert levels :- [112.50] Storm (112.50) Foul

Backdrop :- [bd112.50] Storm (bd112.50) Foul

Existing Survey Level + 6.00

Proposed Finished Level ×6.000

Finished Ground Floor Level FFL 66.630

Bollard B1

Additional Exposed Brickwork below DPC (Underbuild) 225FB

Min. extent of Raised/Secondary DPC to facilitate Level Access (Raised 150mm unless noted otherwise)

Screen / Boundary Wall

Retaining Wall 300RW

PCC Gravel Retaining Boards 300gb

Steps in paths (300 tread, 150 riser)

Proposed Lighting Column (by others)

Street Name Plates SNP

Tactile Crossing

Electric Meter

Gas Meter - Recessed R

Gas Meter - Semi Submerged M

EV Car Charging Point version A - (attached to building) EV

EV Car Charging Point version B- (stand alone) EV

EV Car charging duct (shown indicatively only). Specification to be confirmed by others

GREY HATCH DENOTES ROADS AND DRAINAGE DESIGNED BY BROOKBANKS CONSULTING LIMITED AND APPROVED BY ARUN DISTRICT COUNCIL UNDER REFERENCE P/120/22/DOC. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR APPROVED CONSTRUCTION DRAWINGS.

N

05 04 03 02 01

Sheet Layout

Bellway / Brookbanks construction extent

Pumping Station

SCALE 1 : 200 mt.

No Dimensions are to be scaled from this drawing.

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4. All private drainage is to be constructed, in accordance with the Building Regulations 2000, BS EN 752 (Parts 1-7) and where appropriate the relevant Agreement Certificates.
5. For typical drainage construction details see drawing series 22-012/600 to 602.
6. Private Drains are to be constructed using Polypipe or HS Funke plastic pipes bedded and backfilled as per the manufacturers instructions and the publications listed in 4 above. Where clay pipes are required they shall be Hepworth "SuperSleve/Hepsleve/ Hepseal vitrified clay pipes as appropriate.
7. All drains to be 100mm dia unless stated otherwise. Drains serving more than 10 properties are to be 150mm minimum diameter.
8. Private drains located adjacent to dwellings are to be constructed in accordance with Fig.8 of Approved Document H1.
9. Drainage in "made" or "soft" ground is to be laid in accordance with Technical Advice notes by the Clay Pipe Development Association and where appropriate, the Concrete Pipe Association, and should generally be laid using short length pipes on Class B bedding on 600mm crushed and compacted concrete with 75mm concrete blinding beneath the Class "B" bed.
10. Inspection Chambers on private drains up to 3m depth are to be Type 3 to 4, preformed polypropylene or clayware depending on location and number of connections. Where the above criteria do not apply precast concrete sections with 150mm concrete surround should be used as below:-

Invert Depth	Min Size	Min Access Size
<1.5m	1.2Ø or 1.20 x 0.675	1.20 x 0.675
>1.5m	1.2Ø or 1.20 x 1.00	0.60 x 0.60

(See Table 12 of App. Doc. H1)

12. Rainwater downpipes to be connected direct to drain via adaptor, removable to permit access for rodding.
13. Where back inlet gullies are used they should be roddable.
14. Lintels or sleeves are to be provided for drains passing through foundations or walls in accordance with Diagram 7 of App. Doc. H1.
15. Positions of rainwater pipes, soil pipes, stubstacks, W.C. outlets, etc. are shown on the Architects working drawings.
16. All Stated internal levels are FINISHED FLOOR LEVELS. Garage levels refer to Finished Screed Level at the garage door.
17. All private drains beneath Public Highways, existing trees and screen/retaining wall foundations are to be surrounded with 150mm concrete. Drains beneath tree canopys are to be hand dug.
18. Pipes with less than 0.9m cover in vehicular areas and 0.6m cover in non-vehicular areas are to be protected in accordance with the manufacturers shallow trench detail.
19. Prior to the commencement of works the groundworks Contractor shall investigate all drainage outfalls and satisfy themselves & Vistry (Kent) of the level, diameter and suitability of the outfall point.
20. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.
21. All Redundant sewers and drains to be wholly removed of filled with cementuous grout over the full redundant length.

REVISIONS

P1-C3 Refer to 4Projects for previous revisions.

C4	Light column by pump station moved. Handing label corrected on Aspen house type.	06/03/23
C5	RWP's amended to plots 25-27	14/03/23
C6	Plot 21 orientation changed to achieve 1m to plot boundary. Pump station and substation layout changed to TA layout.	29/03/23
C7	Notes 3 amended from ICOSA to IWNL. Pipe gradient and size amended following IWNL comments.	06/04/23
C8	Additional level information added to all garages. Front path gradients added to all plots.	18/04/23
C9	RWP changes to housetypes Mulberry, Spruce, Maple, Quad Car Port, Single Garage and Sales Garage.	20/06/23
C10	Patio revised @ Plots 43 & 44.	11/07/23
C11	Foul drainage to the front of plots 31-29 revised. lateral removed to F121	17/07/23
C12	Site Levels updated as clouded following site wide review	20/10/23
C13	Tactile paving added to the Cycle path, levels to the rear of plots 43-44 & 25-27 revised in line with part M4(2) advice.plot 25 made an M4(2) unit.	10/11/23
C14	Road gully relocated in the bellmouth of Road 8 & 6, Gully leads added to gully's at the start of Road 6	30/01/24
C15	Note in key revised as clouded	20/02/24
C16	Planning ref number added to the note in the key	20/02/24
C17	Note in Key revised to planners comments	21/02/24
C18	Street Name Plates added adjacent plots 28 & 41	18/03/24
C19	Street Name Plate information added.	29/05/24
C20	Street Name Plates removed adjacent plot 24 & 28	04/06/24

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES

Part of the Vistry Group

DRAWING TITLE

ENGINEERING LAYOUT
Sheet 4 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO	REVISION
22-012/023	C20

LEGEND

Site Boundary

Public Sewers (design by Brookbanks)

Foul Sewer

Surface Water Sewer

Road Gully

Foul Drain Lateral (by others)

Storm Drain Lateral (by others)

Proposed Public Sewers

Foul Sewer & Manhole

Surface Water Sewer & Manhole

Proposed Private Sewers

Foul Drain

Storm Drain

Storm Drain with Concrete Slab Protection

Inspection Chamber	SW	FOUL
190Ø min Type 4 non entry access chamber * (0.6m max depth & only serving 1 dwelling)	s1	f1
450Ø min Type 4 non entry access chamber (upto 1.2m depth)	s1	f2
450Ø min Type 3/4 non entry access chamber (up to 3m depth)	s1	f2
600Ø min Type 3/4 non entry access chamber (up to 3m depth)	s1	f2
Type A, B, C PCC Manhole	s1	f3

Rodding point (450 deep unless shown otherwise)

Road Gully (150Ø Outlet) RG

Yard Gully (100mm Outlet)

Channel Drain

Drainage Notation

Soil & Vent Pipe svp

Soil & Vent Pipe terminated in roof space with Air Admittance Valve aav

Floor Gully fg

Floor Socket fs

Stub Stack ss

Bottle Gully bg

Rain Water Pipe rwp

Invert levels :- [112.50] Storm (112.50) Foul

Backdrop :- [bd112.50] Storm(bd112.50) Foul

Existing Survey Level + 6.00

Proposed Finished Level ×6.000

Finished Ground Floor Level FFL 66.630

Bollard B1

Additional Exposed Brickwork below DPC (Underbuild) 225FB

Min. extent of Raised/Secondary DPC to facilitate Level Access (Raised 150mm unless noted otherwise)

Screen / Boundary Wall

Retaining Wall 300RW

PCC Gravel Retaining Boards 300gb

Steps in paths (300 tread, 150 riser)

Proposed Lighting Column (by others)

Street Name Plates SNP

Tactile Crossing

Electric Meter

Gas Meter - Recessed R

Gas Meter - Semi Submerged RS

EV Car Charging Point version A - (attached to building) EC

EV Car Charging Point version B- (stand alone) EC

EV Car charging duct (shown indicatively only). Specification to be confirmed by others

GREY HATCH DENOTES ROADS AND DRAINAGE DESIGNED BY BROOKBANKS CONSULTING LIMITED AND APPROVED BY ARUN DISTRICT COUNCIL UNDER REFERENCE P/120/22/DOC. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR APPROVED CONSTRUCTION DRAWINGS.

SCALE 1 : 200 mt.

N

05 / 04 / 03 / 02 / 01

Sheet Layout

No Dimensions are to be scaled from this drawing.

NOTES

1. Withers Design Associates Ltd have prepared this drawing for the sole use of the client. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Withers Design Associates Ltd for inaccuracies in the data supplied by any other party.
2. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref: 29477) dated January 2021.
3. All Adoptable drainage works are to be constructed as detailed in Sewer Sector Guidance (SSG) Appendix C: Design & Construction Guidance to the satisfaction of IWNL.
4. All private drainage is to be constructed, in accordance with the Building Regulations 2000, BS EN 752 (Parts 1-7) and where appropriate the relevant Agrement Certificates.
5. For typical drainage construction details see drawing series 22-012/600 to 602.
6. Private Drains are to be constructed using Polypipe or HS Funke plastic pipes bedded and backfilled as per the manufacturers instructions and the publications listed in 4 above. Where clay pipes are required they shall be Hepworth "SuperSleve/Hepsleve/ Hepseal vitrified clay pipes as appropriate.
7. All drains to be 100mm dia unless stated otherwise. Drains serving more than 10 properties are to be 150mm minimum diameter.
8. Private drains located adjacent to dwellings are to be constructed in accordance with Fig.8 of Approved Document H1.
9. Drainage in "made" or "soft" ground is to be laid in accordance with Technical Advice notes by the Clay Pipe Development Association and where appropriate, the Concrete Pipe Association, and should generally be laid using short length pipes on Class B bedding on 600mm crushed and compacted concrete with 75mm concrete blinding beneath the Class "B" bed.
10. Inspection Chambers on private drains up to 3m depth are to be Type 3 to 4, preformed polypropylene or clayware depending on location and number of connections. Where the above criteria do not apply precast concrete sections with 150mm concrete surround should be used as below;-

Invert Depth	Min Size	Min Access Size
<1.5m	1.2Ø or 1.20 x 0.675	1.20 x 0.675
>1.5m	1.2Ø or 1.20 x 1.00	0.60 x 0.60

(See Table 12 of App. Doc. H1)

11. Rainwater downpipes to be connected direct to drain via adaptor, removable to permit access for rodding.
12. Where back inlet gullies are used they should be roddable.
13. Lintels or sleeves are to be provided for drains passing through foundations or walls in accordance with Diagram 7 of App. Doc. H1.
14. Positions of rainwater pipes, soil pipes, stubstacks, W.C. outlets, etc. are shown on the Architects working drawings.
15. All Stated internal levels are FINISHED FLOOR LEVELS. Garage levels refer to Finished Screed Level at the garage door.
16. All private drains beneath Public Highways, existing trees and screen/retaining wall foundations are to be surrounded with 150mm concrete. Drains beneath tree canopys are to be hand dug.
17. Pipes with less than 0.9m cover in vehicular areas and 0.6m cover in non-vehicular areas are to be protected in accordance with the manufacturers shallow trench detail.
18. Prior to the commencement of works the groundworks Contractor shall investigate all drainage outfalls and satisfy themselves & Vistry (Kent) of the level, diameter and suitability of the outfall point.
19. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.
20. All Redundant sewers and drains to be wholly removed of filled with cementuous grout over the full redundant length.

REVISIONS

C7	Additional level information added to all garages. Front path gradients added to all plots.	18/04/23
C8	RWP changes to housetypes Mulberry, Spruce, Maple, Quad Car Port, Single Garage and Sales Garage.	20/06/23
C9	Patio revised @ Plots 43 & 44.	11/07/23
C10	Site Levels updated as clouded following site wide review	20/10/23
C11	Tactile paving added to the Cycle path, levels to the rear of plots 43-44 revised in line with part M4(2) advice.	10/11/23
C12	Note in key revised as clouded	20/02/24
C13	Planning ref number added to the note in the key	20/02/24
C14	Note in Key revised to planners comments	21/02/24
C15	Street Name Plates added adjacent plots 28 & 41	18/03/24
C16	Street Name Plate information added.	29/05/24
C17	Street Name Plates removed adjacent plot 28	04/06/24
C18	Manhole S227 re-located to tie in with Brookbank design. FFL of plot 37 changed following client instruction, drainage to plots 36 & 37 updated to suit levels.	03/03/25

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
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CO6 2DY
01206 247081

PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes / Linden HOMES

Part of the Vistry Group

DRAWING TITLE

ENGINEERING LAYOUT
Sheet 5 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS: **CONSTRUCTION**

DRG NO	REVISION
22-012/024	C18

No Dimensions are to be scaled from this drawing.

NOTES

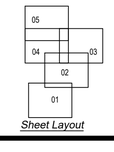
1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.

Sheet Layout



REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Road levels adjusted between chainage CH0-30 on Road 1 to tie-in to revised Brookbanks road design.	15/08/22
T3	Plot 82 moved. New Street Lighting added.	18/09/22
T4	Cycle store size amended to 8'x6'. Screen walls amended to remove angles/curves. Archaeological dig topo added.	11/11/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22
C2	Pergola's removed from parking to plots 79-83. Levels to parking bays 79-83 changed.	16/02/23
C3	Handing label corrected on Aspen house type.	06/03/23

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
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PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES

Part of the Vistry Group

DRAWING TITLE

ROAD SETTING OUT
Sheet 1 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO	REVISION
22-012/250	C3

SCALE 1 : 200 mt.

No Dimensions are to be scaled from this drawing.

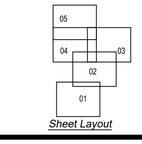
NOTES

1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.



Sheet Layout

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Road levels adjusted between chainage CH0-30 on Road 1 to tie-in to revised Brookbanks road design.	15/08/22
T3	New Street Lighting added.	16/09/22
T4	Cycle store size amended to 8'x6'. Screen walls amended to remove angles/curves. Archaeological dig topo added.	11/11/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22
C2	End of shared cycle path moved to suit tracking movement coordination with S278 tactile paving.	13/01/23
C3	S278 verge removed/moved and light column moved to suit fire vehicle tracking.	16/02/23
C4	Handing label corrected on Aspen house type.	05/03/23
C5	Plot 47 changed to M4(3) unit and associated parking bays.	05/05/23

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

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PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE

ROAD SETTING OUT
Sheet 2 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO	REVISION
22-012/251	C5

SCALE 1 : 200 mt.

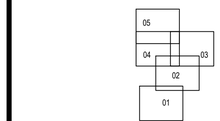
No Dimensions are to be scaled from this drawing.

NOTES
1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.



Sheet Layout

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/09/22
T2	Plot 30 house and garage moved. New Street Lighting added.	16/09/22
T3	Cycle store size amended to 8'x6'. Screen walls amended to remove angles/curves. Archaeological dig topo added.	11/11/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22
C2	Pump station and substation location updated to reflect Legal Plans.	16/02/23
C3	Light column by pump station moved. Handing label corrected on Aspen house type.	06/03/23
C4	Pump station and substation layout changed to TA layout.	29/03/23
C5	Missing side door added to plot 12/13. BCP paving amended.	05/05/23

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
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PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
ROAD SETTING OUT
Sheet 3 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS
CONSTRUCTION

DRG NO **22-012/252** REVISION **C5**

SCALE 1 : 200 mt.

No Dimensions are to be scaled from this drawing.

NOTES

1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.

Sheet Layout

05
04 03
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01

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Road levels lowered on Road 8 to reduce cut and fill.	15/08/22
T3	Plot 30 house and garage moved. New Street Lighting added.	16/09/22
T4	Cycle store size amended to 8'x6'. Screen walls amended to remove angles/curves. Archaeological dig topo added.	11/11/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22
C2	Pump station and substation location updated to reflect Legal Plans.	16/02/23
C3	Light column by pump station moved. Handing label corrected on Aspen house type.	06/03/23
C4	Plot 21 orientation changed to achieve 1m to plot boundary. Pump station and substation layout changed to TA layout.	29/03/23
C5	Patio revised @ Plots 43 & 44.	11/07/23

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
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PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE

ROAD SETTING OUT
Sheet 4 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO	REVISION
22-012/253	C5

SCALE 1 : 200 mt.

No Dimensions are to be scaled from this drawing.

NOTES
1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.

05
04 03
02
01
Sheet Layout

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Road levels lowered on Road 8 to reduce cut and fill.	15/08/22
T3	Boundary fence and brickwall moved at Plots 37-40. New Street Lighting added.	16/09/22
T4	Cycle store size amended to 8'x6'. Screen walls amended to remove angles/curves. Archaeological dig topo added.	11/11/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22
C2	Pump station and substation location updated to reflect Legal Plans.	16/02/23
C3	Light column by pump station moved. Handing label corrected on Aspen house type.	06/03/23
C4	Pump station and substation layout changed to TA layout.	29/03/23
C5	Patio revised @ Plots 43 & 44.	11/07/23

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
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PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
ROAD SETTING OUT
Sheet 5 of 5

SCALE	DATE	INIT	CHKD
1:200	05/22	cb	mw

STATUS
CONSTRUCTION

DRG NO	REVISION
22-012/254	C5

SCALE 1 : 200 mt.

ALIGNMENT ROAD 1									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP1-1	0.000	489687.396	99257.008	-999.900		143.00279			
CP1-1	10.000	489693.414	99249.022	6.720					
CP1-2	20.000	489699.432	99241.035	6.804					
TP1-1a	23.207	489701.362	99238.474	6.775		143.00279			
IP1-1		489713.632	99222.189		110.000		21.00279	40.322	20.390
CP1-3	30.000	489705.614	99233.178	6.690					
CP1-4	40.000	489712.450	99225.884	6.565					
CP1-5	50.000	489719.919	99219.240	6.440					
CP1-6	60.000	489727.961	99213.302	6.466					
TP1-1b	63.530	489730.924	99211.384	6.510		122.00000			
CP1-7	70.000	489736.411	99207.955	6.591					
EP1-1	75.539	489741.109	99205.020	6.660		122.00000			

ALIGNMENT ROAD 2									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP2-1	0.000	489719.114	99219.899	-999.900		219.58912			
TP2-1a	7.697	489714.209	99213.967	6.541		219.58912			
IP2-1		489713.512	99213.125		12.000		10.41088	2.180	1.093
TP2-1b	9.878	489712.675	99212.422	6.560		230.00000			
CP2-1	10.000	489712.581	99212.344	6.561					
CP2-2	20.000	489704.921	99205.916	6.479					
TP2-2a	24.109	489701.773	99203.275	6.428		230.00000			
IP2-2		489701.641	99203.163		3.000		6.60243	0.346	0.173
TP2-2b	24.455	489701.522	99203.038	6.423		223.39757			
CP2-3	30.000	489697.712	99199.008	-999.900					
JP2-2	31.188	489696.895	99198.145	-999.900		223.39757			

ALIGNMENT ROAD 3									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SP3-1	0.000	489686.422	99210.029	6.650		140.00000			
TP3-1a	9.407	489692.469	99202.822	6.532		140.00000			
IP3-1		489697.347	99197.009		54.000		16.00000	15.080	7.589
CP3-1	10.000	489692.853	99202.370	6.525					
CP3-2	20.000	489700.028	99195.425	6.430					
TP3-1b	24.487	489703.639	99192.765	6.469		124.00000			
CP3-3	30.000	489708.210	99189.682	6.538					
EP3-1	38.960	489715.638	99184.671	6.650		124.00000			

ALIGNMENT ROAD 4									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP4-1	0.000	489714.629	99286.476	-999.900		102.94356			
CP4-1	10.000	489724.374	99284.236	6.591					
TP4-1a	14.146	489728.416	99283.307	6.643		102.94356			
IP4-1		489745.084	99279.477		200.000		9.77532	34.122	17.103
CP4-2	20.000	489734.100	99281.913	6.716					
CP4-3	30.000	489743.709	99279.148	6.841					
CP4-4	40.000	489753.168	99275.906	6.918					
TP4-1b	48.269	489760.859	99272.871	6.823		112.71888			
CP4-5	50.000	489762.456	99272.203	6.801					
EP4-1	58.080	489769.909	99269.082	6.700		112.71888			

ALIGNMENT ROAD 5									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP5-1	0.000	489755.659	99274.964	-999.900		207.00008			
CP5-1	10.000	489751.119	99266.054	6.739					
CP5-2	20.000	489746.579	99257.144	6.815					
CP5-3	30.000	489742.039	99248.233	6.770					
EP5-1	34.158	489740.151	99244.529	6.718		207.00008			

ALIGNMENT ROAD 6									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SP6-1	0.000	489711.132	99326.740	6.358		329.56812			
IP6-1		489707.680	99332.617		47.000		16.50402	13.538	6.816
CP6-1	10.000	489705.191	99334.761	6.460					
TP6-1b	13.538	489702.700	99337.272	6.496		313.06410			
TP6-2a	15.338	489701.385	99338.501	6.515		313.06410			
IP6-2		489686.165	99352.725		240.000		9.92171	41.560	20.832
CP6-2	20.000	489697.948	99341.650	6.562					
CP6-3	30.000	489690.374	99348.179	6.664					
CP6-4	40.000	489682.534	99354.386	6.728					
CP6-5	50.000	489674.443	99360.261	6.661					
TP6-2b	56.898	489668.722	99364.115	6.592		303.14239			
CP6-6	60.000	489666.125	99365.810	6.561					
TP6-3a	67.647	489659.722	99369.991	6.485		303.14239			
IP6-3		489649.125	99376.911		27.500		49.42676	23.723	12.656
CP6-7	70.000	489657.809	99371.360	6.461					
CP6-8	80.000	489651.214	99378.804	6.361					
CP6-9	90.000	489647.699	99388.107	6.261					
TP6-3b	91.370	489647.488	99389.461	6.244		352.56915			
TP6-4a	91.638	489647.453	99389.726	6.240		352.56915			
IP6-4		489646.408	99397.738		22.500		39.50936	15.515	8.080
CP6-10	100.000	489647.920	99398.027	6.136					
TP6-4b	107.153	489650.699	99404.585	6.046		32.07851			
CP6-11	110.000	489652.211	99406.997	6.011					
CP6-12	120.000	489657.522	99415.471	5.912					
CP6-13	130.000	489662.833	99423.944	6.016					
CP6-14	140.000	489668.144	99432.417	6.141					
EP6-1	142.310	489669.370	99434.374	6.170		32.07851			

ALIGNMENT ROAD 7									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SP7-1	0.000	489638.519	99373.187	6.392		61.54914			
CP7-1	10.000	489647.311	99377.951	6.292					
JP7-1	13.809	489650.660	99379.766	-999.900		61.54914			

ALIGNMENT ROAD 8									
LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
JP8-1	0.000	489682.432	99354.463	-999.900		33.97787			
CP8-1	10.000	489688.021	99362.756	6.569					
CP8-2	20.000	489693.609	99371.048	6.444					
CP8-3	30.000	489699.198	99379.341	6.323					
CP8-4	40.000	489704.787	99387.633	6.392					
CP8-5	50.000	489710.376	99395.926	6.517					
TP8-1a	57.874	489714.776	99402.456	6.615		33.97787			
IP8-1		489719.635	99409.665		55.000		17.96441	17.245	8.694
CP8-6	60.000	489715.998	99404.195	6.642					
CP8-7	70.000	489722.602	99411.686	6.767					
EP8-1	75.119	489726.480	99415.024	6.831		51.94228			

JUNCTION DETAILS : ROAD 1 - BELL 01 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489699.451	99254.969		6.000
Start TP1:	489695.916	99259.817	6.713	
End TP2:	489694.659	99251.358	6.646	

JUNCTION DETAILS : ROAD 1 - BELL 01 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489685.874	99245.070		6.000
Start TP3:	489682.339	99249.918	6.575	
End TP4:	489690.666	99248.680	6.643	

JUNCTION DETAILS : ROAD 2 - ROAD 1 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489719.442	99210.252		4.000
Start TP1:	489721.819	99213.469	6.431	
End TP2:	489716.359	99212.802	6.475	

JUNCTION DETAILS : ROAD 2 - ROAD 1 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489707.462	99219.025		6.000
Start TP3:	489711.605	99223.364	6.591	
End TP4:	489711.628	99214.707	6.615	

JUNCTION DETAILS : ROAD 2 - ROAD 3 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489705.168	99199.034		3.000
Start TP1:	489702.988	99201.095	6.358	
End TP2:	489703.376	99196.628	6.365	

JUNCTION DETAILS : ROAD 2 - ROAD 3 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489697.286	99206.418		3.000
Start TP3:	489699.466	99204.356	6.478	
End TP4:	489695.001	99204.474	6.453	

JUNCTION DETAILS : ROAD 4 - BELL 02 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489725.392	99292.621		6.000
Start TP1:	489719.496	99293.731	6.424	
End TP2:	489724.048	99286.774	6.640	

JUNCTION DETAILS : ROAD 4 - BELL 02 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489719.782	99276.673		6.000
Start TP3:	489714.489	99279.499	6.567	
End TP4:	489721.126	99282.520	6.497	

JUNCTION DETAILS : ROAD 7 - ROAD 6 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489637.398	99384.807		8.000
Start TP1:	489641.210	99377.773	6.278	
End TP2:	489645.212	99386.524	6.203	

JUNCTION DETAILS : ROAD 7 - ROAD 6 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489647.729	99365.951		8.000
Start TP3:	489643.918	99372.985	6.414	
End TP4:	489653.382	99371.612	6.360	

JUNCTION DETAILS : ROAD 8 - ROAD 6 LH Side				
Curve 1	E	N	Level	Radius
Centre O1 :	489681.333	99363.658		4.000
Start TP1:	489679.002	99360.408	6.629	
End TP2:	489684.650	99361.423	6.657	

JUNCTION DETAILS : ROAD 8 - ROAD 6 RH Side				
Curve 2	E	N	Level	Radius
Centre O2 :	489691.003	99356.356		4.000
Start TP3:	489688.515	99353.224	6.640	
End TP4:	489687.686	99358.591	6.563	

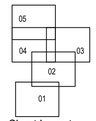
No Dimensions are to be scaled from this drawing.

NOTES
1. All works based on the Topographical Survey by Interlock Surveys (Drg. 150595-3D) dated September 2015 and supplementary data by MK Surveys (ref. 29477) dated January 2021.
2. The Contractor is responsible for obtaining all necessary licenses for working in the public highway, inclusive of the agreement of all traffic and pedestrian management arrangements.
3. Setting Out to roads refers to centreline setting out, with offsets and coordinates to key areas also provided.
4. For Road Setting Out data, refer to Drawing Nos 22-012/255.
5. For Building Setting Out, refer to Drawing Nos 22-012/800 to 805.

LEGEND

Site Boundary

GREY HATCH DENOTES ROAD AND DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.



Sheet Layout

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Setting out data amended to Road 1 and Road 8	15/08/22
C1	Shared cycle path widened to 3.7m for fire access. Construction Issue.	06/12/22

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

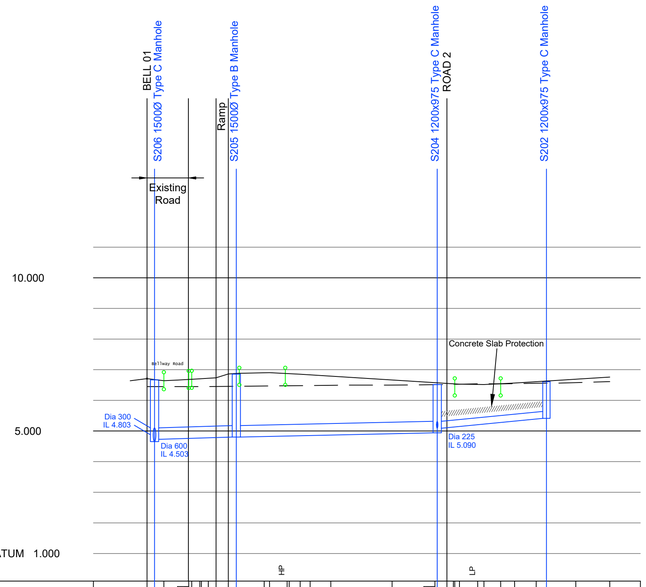
CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
ROAD SETTING OUT DATA Sheet 1

SCALE	DATE	INIT	CHKD
NTS	05/22	cb	mw

STATUS
CONSTRUCTION

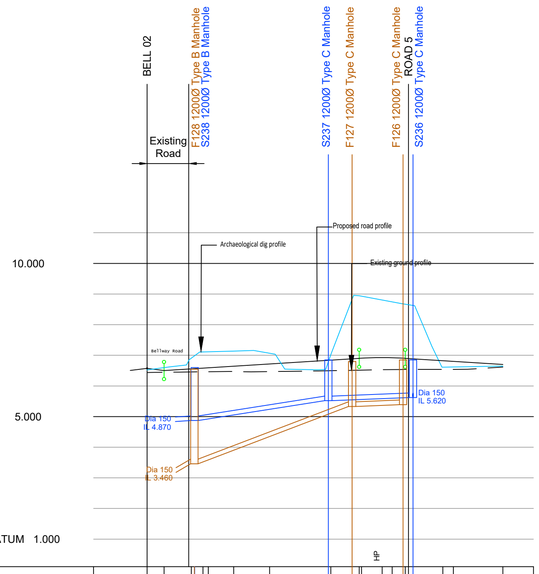
DRG NO **22-012/255** REVISION **C1**

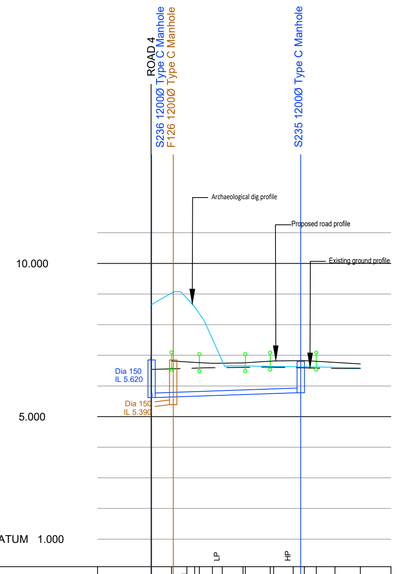


ROAD 1

DATUM 1.000

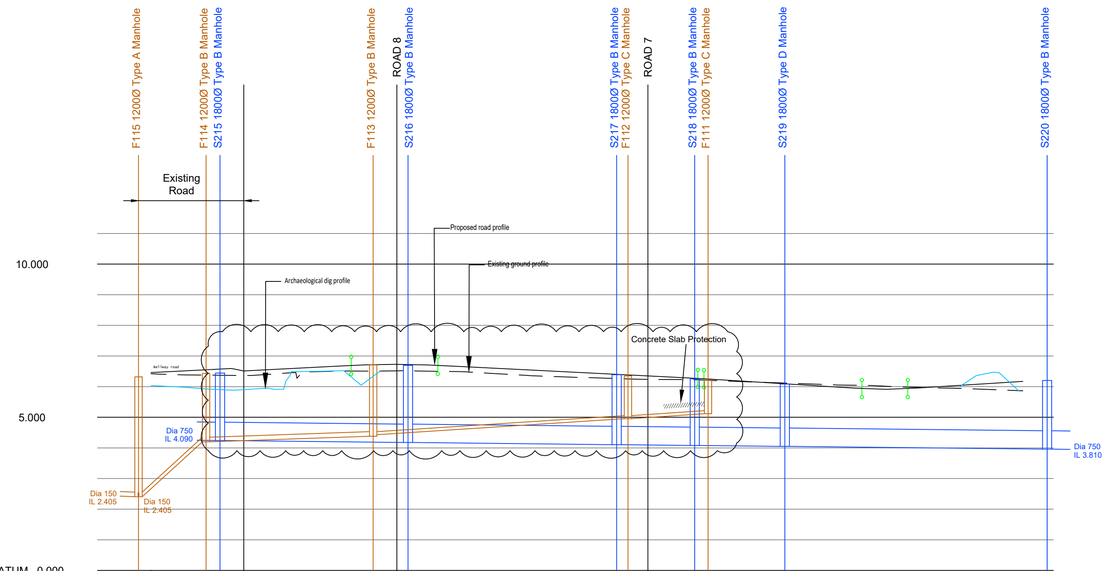
| | | |

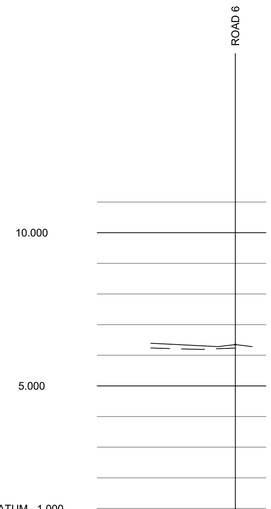




ROAD 4 DATUM 1.000

| | | |

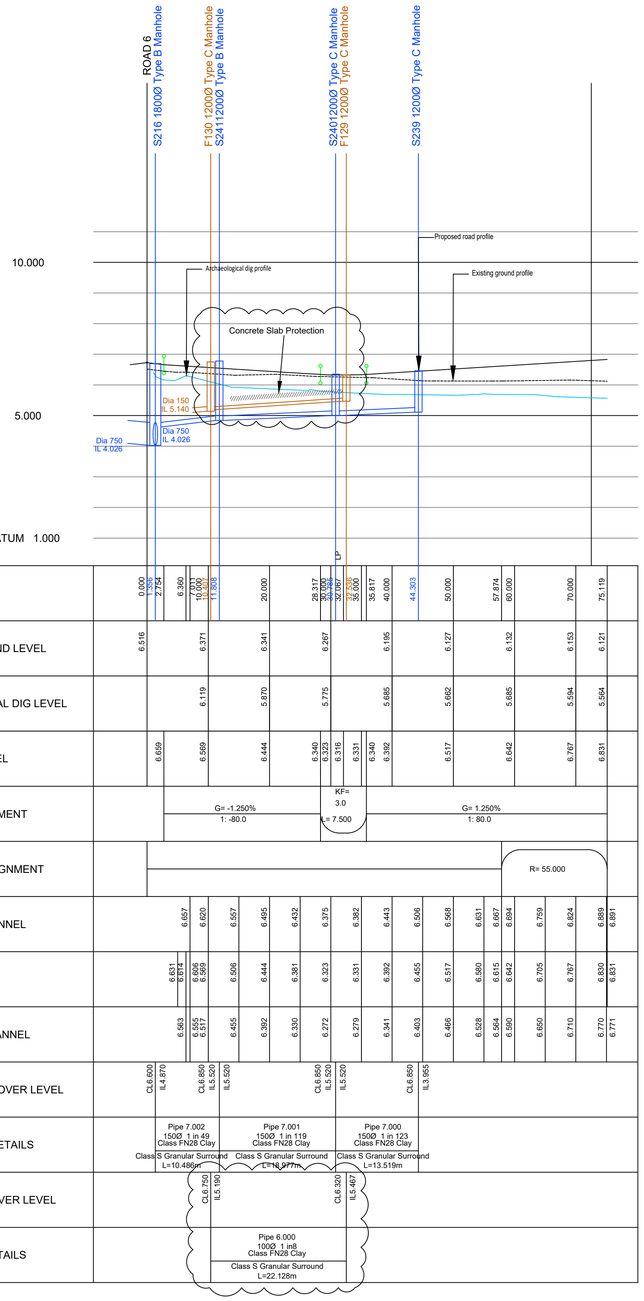




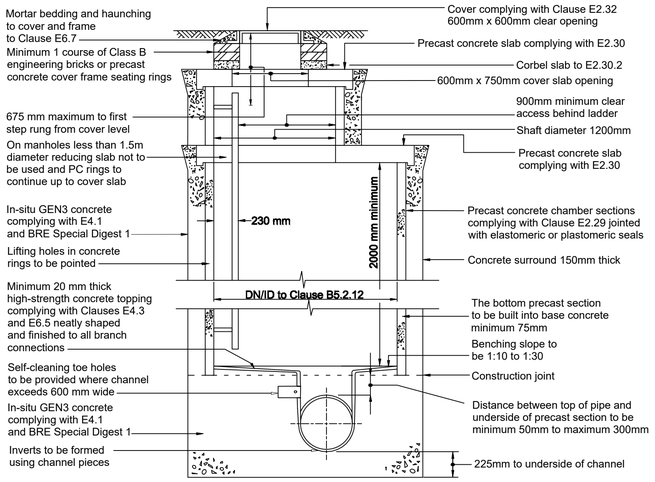
ROAD 6

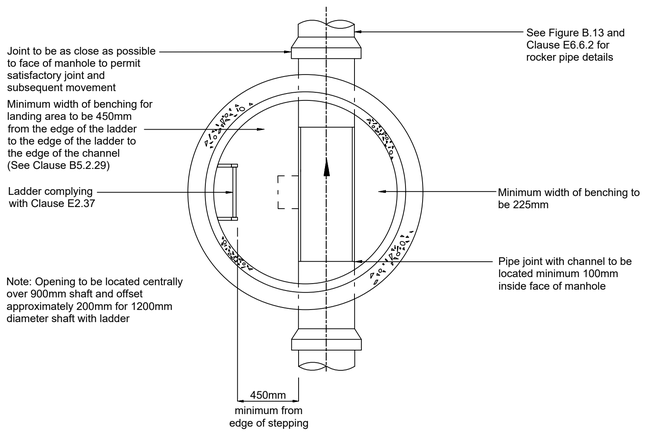
DATUM 0.000

| | | |


ROAD 6
S216 1800Ø Type B Manhole
F.130 1200Ø Type C Manhole
S241 1200Ø Type B Manhole
S240 1200Ø Type C Manhole
F.129 1200Ø Type C Manhole
S239 1200Ø Type C Manhole
10.000
5.000
Proposed road profile
Archaeological dig profile
Existing ground profile
Concrete Slab Protection
Dia 150
IL 5.140
Dia 750
IL 4.026
Dia 750
IL 4.026
ROAD 8
DATUM 1.000

| | | |





TYPICAL MANHOLE DETAIL - TYPE A1

Depth to soffit 3m to 6m

⚠ Trench support required for all excavations >2m and/or in water logged or otherwise unstable ground.

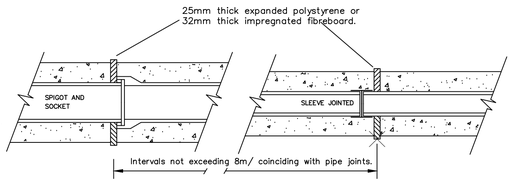
CHAMBER DIAMETERS SHALL BE IN ACCORDANCE WITH THE TABLE BELOW

LARGEST PIPE DIAMETER (mm)	MIN CHAMBER SECTION DIAMETER (mm)
Less than 375mm	1200
375 - 450	1350
500 - 700	1500
750 - 900	1800

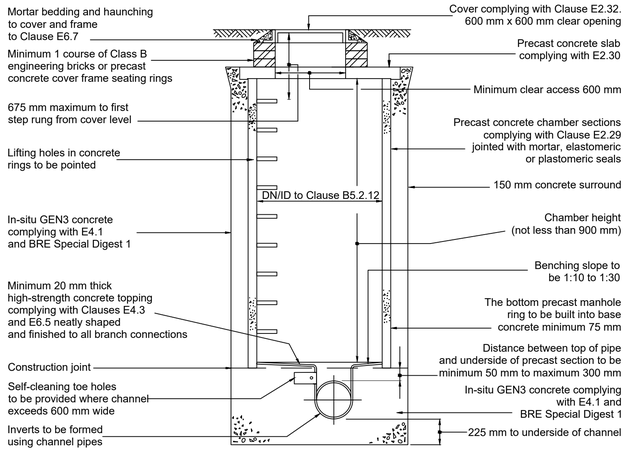
1. Chamber diameters quoted are the minimum. If two or more pipes enter the manhole the chamber diameter must be sufficient to accomodate adequate benching. All incoming pipes to be built with soffits level.

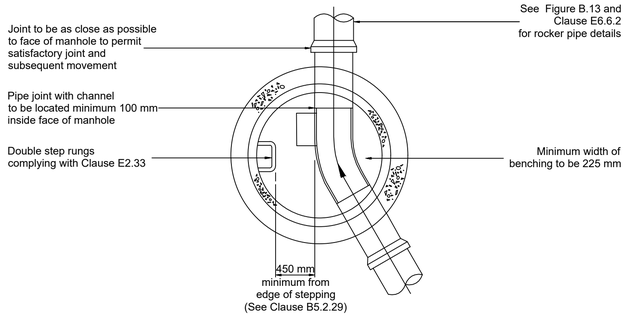
2. Chamber height of a Type A manhole (benching to slab soffit) should be 2000mm. When this is not practical Type B manholes are preferred, subject to an absolute minimum internal chamber height of 900mm

3. Cover slab and eccentric cover frame can be rotated to suit ladder or step rungs.



DETAIL OF FLEXIBLE JOINTS IN CONCRETE SURROUND

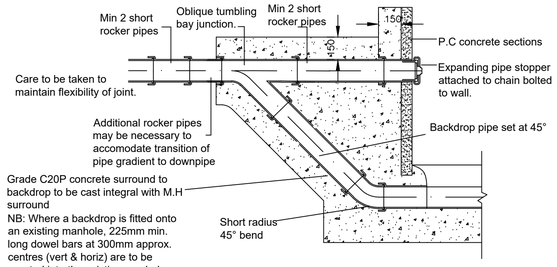




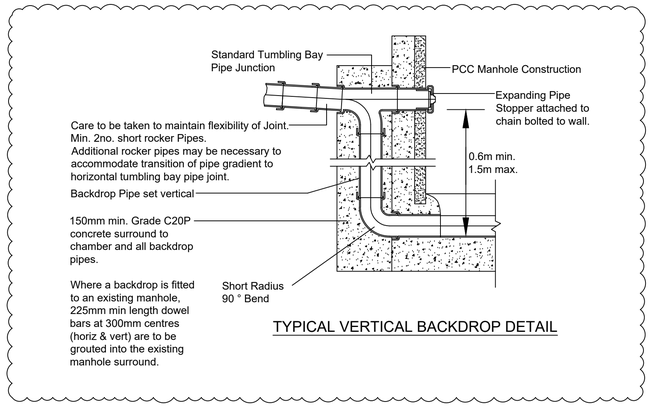
TYPICAL MANHOLE DETAIL - TYPE B

Depth to soffit 1.5m to 3.0m

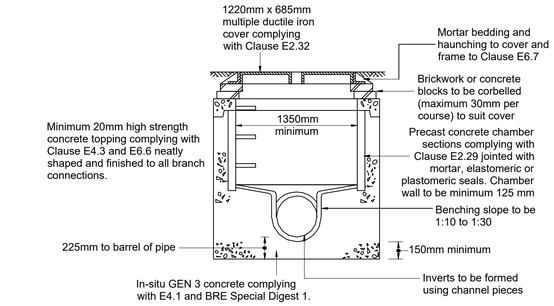
⚠ Trench support required for all excavations >2m and/or in water logged or otherwise unstable ground.

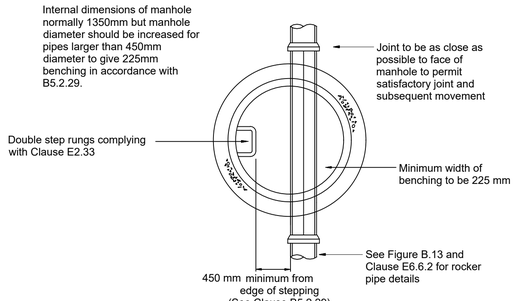


TYPICAL BACKDROP DETAIL



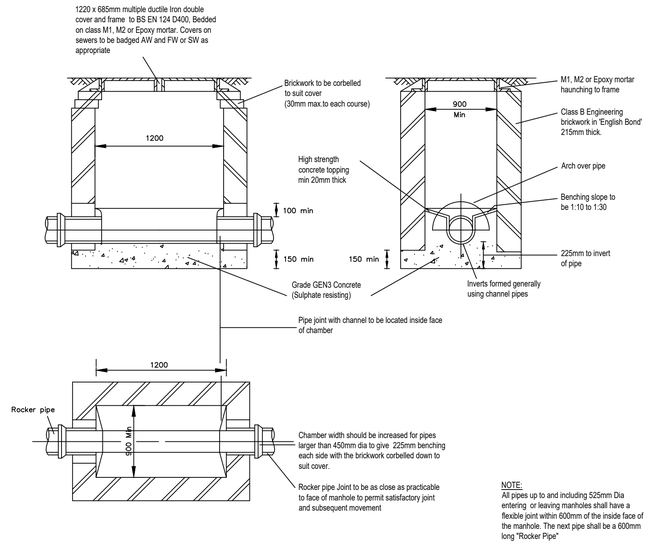
TYPICAL VERTICAL BACKDROP DETAIL





TYPICAL MANHOLE DETAIL - TYPE C

Depth to soffit less than 1.5m



NOTE:
All pipes up to and including 525mm Dia entering or leaving manholes shall have a flexible joint within 600mm of the inside face of the manhole. The next pipe shall be a 600mm long "Rocker Pipe"

TYPICAL MANHOLE DETAIL - TYPE C

Depth to soffit up to 1.2m

No Dimensions are to be scaled from this drawing.

NOTES

1. All dimensions are in millimetres unless specified otherwise.
2. Except for concretes having an equivalent compressive strength of less than 20N/mm2, sulphate-resisting Portland cement shall be used in all cases or consist of a special combination of cement complying with the relevant provisions of BS 12 and ggbs or pfa unless the Developer can satisfy the Engineer that any attack from soils or groundwaters will adequately be resisted by the the use of cement to BS 12.
3. Manhole Types A1, B & C to be used within main carriageways. Access Chambers Type 3 - 4 may be used outside of carriageways and at the head of lateral connections to the adoptable sewers.
4. Lateral Connections made as saddle connections to a main sewer must be made using preformed junction pipes.
5. All private drainage works to comply with current Building Regulations Part H and BS EN 752.
6. Workmanship on site shall accord with the principles of BS8000-14 "Workmanship on Building Sites. Code of Practice for Below Ground Drainage" and general good working practices.
7. Before commencing any sewer or drainage works, the Contractor's ground worker must satisfy themselves, Vistry (South) and the Local Authority of actual levels and conditions of existing sewers.
8. Depth and location of existing services to be traced by the Contractor prior to commencing any drainage excavations.
9. Drainage pipelines to be laid under roads, parking bays and other trafficked areas shall be either:
   a) Vitrified clayware to BS EN295.
   b) Concrete to BS5911 Class M.
10. Buried concrete shall be suitable for Class DS-4 unless testing can be provided to show Icosa that a lower class will resist attack from soils and groundwater in accordance with BRE Special Digest 1.
11. Manholes/Inspection Chambers located within highways or vehicular areas accessible to commercial vehicles shall have a Grade D400 double triangular manhole cover complying with BS EN124 and have a min. clear opening of 600mm. Grade C250 covers may be used for manholes non vehicular areas and all footways and verges.
    Inspection chambers in footways, pedestrian areas, private drives serving one property and landscaped areas to be provided with B125 covers. Chambers located under trafficked areas to have concrete surround.
12. All private Type 3 - 4 chambers in light vehicular of pedestrian areas to be fitted with inset covers of appropriate loading class where located in paved areas.
13. Covers/Inspection chambers must not be located directly outside doors.
14. Where private manholes and catchpits are constructed using precast concrete circular rings, they are to be constructed to BS 5911-200 and generally in accordance with Appendix C of the Sewerage Sector Guidance.
15. All abandoned, buried obstructions encountered during the construction of Highway & Drainage Works are to be broken out to bed level of drains and sewers, and to the formation of car parks and drives etc., and to sufficient depth to allow for laying service company's mains and services.
16. On sites where the risk of 'landfill' gas migration has been identified, all drainage entries under buildings should be sealed with a clay stank, comprising 1.0m length of clean 'puddle' clay bed, surround and backfill to pipe trench.
17. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Brick construction Type C manhole detail added.	15/08/22
C1	Construction Issue.	06/12/22
C2	Typical Vertical Backdrop detail added.	23/06/23

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
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Wakes Colne, Colchester, Essex
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01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

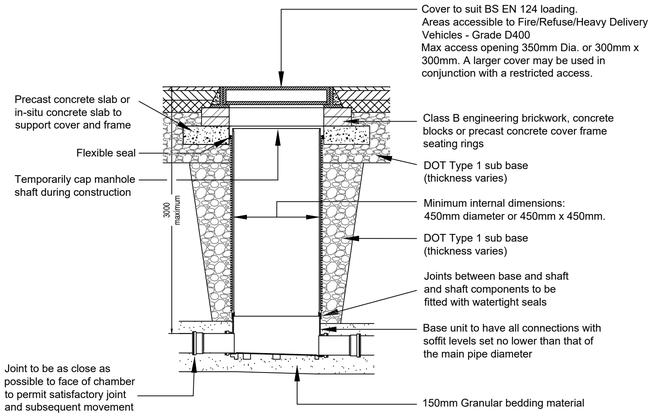
DRAWING TITLE
DRAINAGE CONSTRUCTION DETAILS Sheet 1

SCALE	DATE	INIT	CHKD
NTS	05/22	me	cb

STATUS
CONSTRUCTION

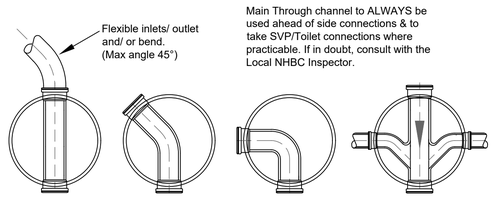
DRG NO
22-012/600

REVISION
C2

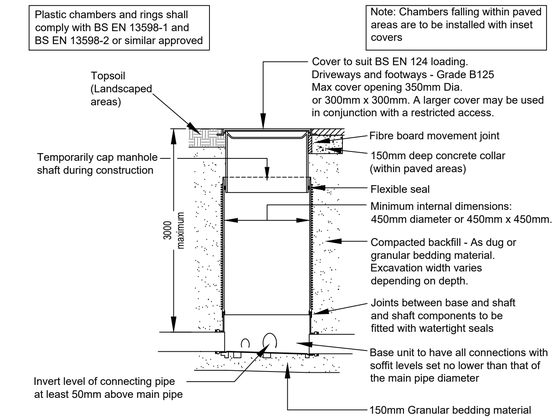


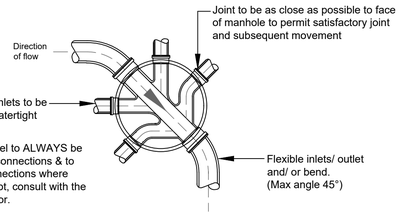
TYPICAL ACCESS CHAMBER TYPE 3 (Flexible material detail)

Depth of soffit less than 3m - Non entry
For areas accessible to Fire/Refuse/Heavy Delivery Vehicles



Alternative base invert layouts.
All connecions to be minimum soffit to soffit

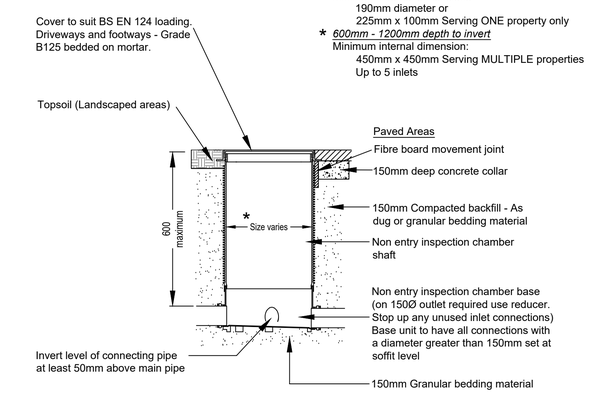


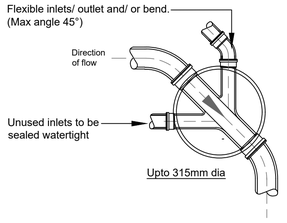


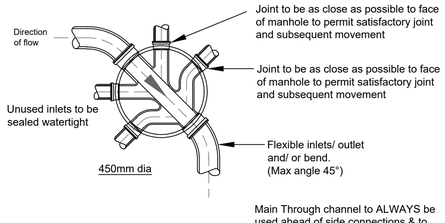
TYPICAL ACCESS CHAMBER TYPE 3 (Flexible material detail)

Depth of soffit less than 3m - Non entry
For areas subject to light vehicle or pedestrian loading only.

* *Up to 600mm depth to invert*
Minimum internal dimensions:
190mm diameter or
225mm x 100mm Serving ONE property only
* *600mm - 1200mm depth to invert*
Minimum internal dimension:
450mm x 450mm Serving MULTIPLE properties
Up to 5 inlets







TYPICAL ACCESS CHAMBER TYPE 4 (Flexible material detail)

Depth of invert up to 1200mm - Non entry
For Driveways, pedestrian and soft landscaped areas

Main Through channel to ALWAYS be used ahead of side connections & to take SVP/Toilet connections where practicable. If in doubt, consult with the Local NHBC Inspector.

Chamber Cover Load Class to BS EN 124

Manhole & Inspection Chambers are to be fitted with cover appropriate to their loading situation as detailed below.

Covers in Paved or Block Paved Areas are to be Inset covers (infilled with matching surfacing material) of appropriate load class subject to availability

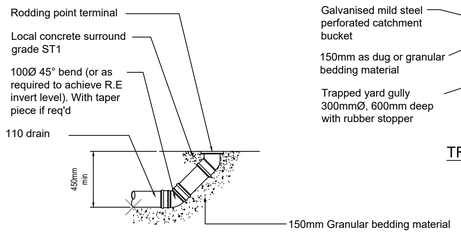
Class A15
Access covers and gratings capable of withstanding a 1.5 tonnes test load. For use in areas where only pedestrians have access.

Class B125
Access covers and gratings capable of withstanding a 12.5 tonnes test load. For use in car parks and pedestrian areas where only occasional vehicular access is likely.

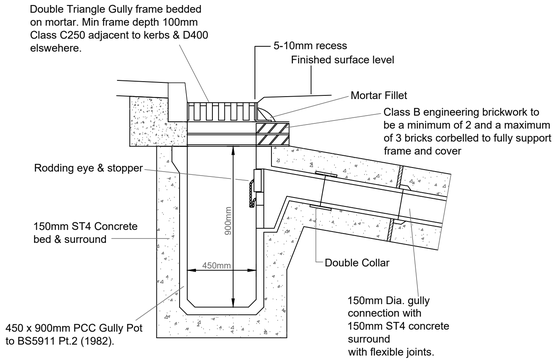
Class C250
Access covers and gratings capable of withstanding a 25 tonnes test load. For use in car parks, forecourts, industrial sites and areas with slow moving traffic also in highway locations up to 500mm from the kerb and up to 200mm into the verge, excluding motorways.

Class D400
Access covers and gratings capable of withstanding a 40 tonnes test load. For use in areas where cars and lorries have access, including carriageways, hard shoulders and pedestrian areas.

TRAPPED YARD GULLY
(for private drives)

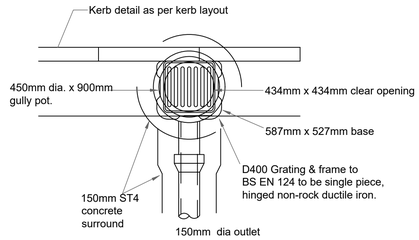


RODDING EYE

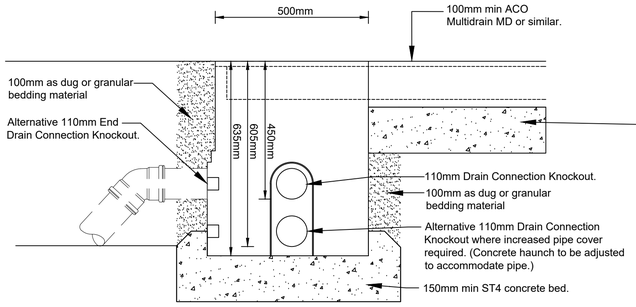


All road gullies are to have Cycle friendly gratings.

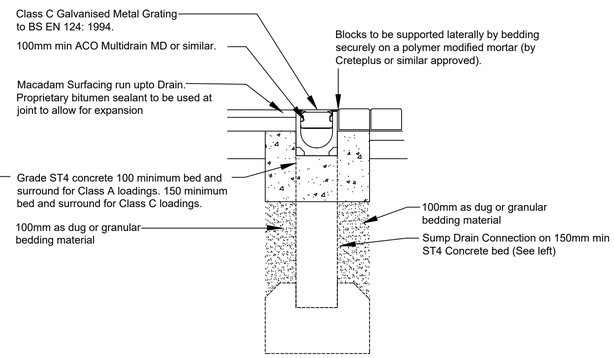
ROAD GULLY DETAIL
(for private roads)



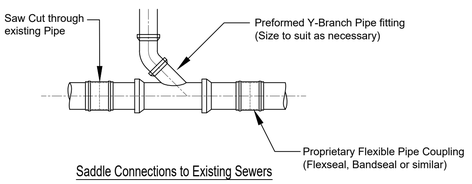
TYPICAL PLAN OF OF CARRIAGEWAY GULLY
N.T.S



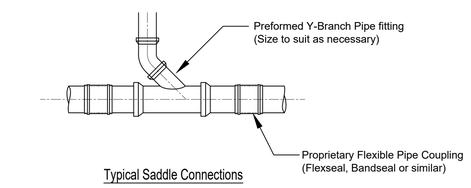
CHANNEL DRAIN SUMP UNIT



CHANNEL DRAIN DETAIL



Saddle Connections to Existing Sewers



Typical Saddle Connections

No Dimensions are to be scaled from this drawing.

NOTES

1. All dimensions are in millimetres unless specified otherwise.
2. Except for concretes having an equivalent compressive strength of less than 20N/mm2, sulphate-resisting Portland cement shall be used in all cases or consist of a special combination of cement complying with the relevant provisions of BS 12 and ggbs or pfa unless the Developer can satisfy the Engineer that any attack from soils or groundwaters will adequately be resisted by the the use of cement to BS 12.
3. Manhole Types A1, B & C to be used within main carriageways. Access Chambers Type 3 - 4 may be used outside of carriageways and at the head of lateral connections to the adoptable sewers.
4. Lateral Connections made as saddle connections to a main sewer must be made using preformed junction pipes.
5. All private drainage works to comply with current Building Regulations Part H and BS EN 752.
6. Workmanship on site shall accord with the principles of BS8000-14 "Workmanship on Building Sites. Code of Practice for Below Ground Drainage" and general good working practices.
7. Before commencing any sewer or drainage works, the Contractor's ground worker must satisfy themselves, Vistry (South) and the Local Authority of actual levels and conditions of existing sewers.
8. Depth and location of existing services to be traced by the Contractor prior to commencing any drainage excavations.
9. Drainage pipelines to be laid under roads, parking bays and other trafficked areas shall be either:
   a) Vitrified clayware to BS EN295.
   b) Concrete to BS5911 Class M.
10. Buried concrete shall be suitable for Class DS-4 unless testing can be provided to show Icosa that a lower class will resist attack from soils and groundwater in accordance with BRE Special Digest 1.
11. Manholes/Inspection Chambers located within highways or vehicular areas accessible to commercial vehicles shall have a Grade D400 double triangular manhole cover complying with BS EN124 and have a min. clear opening of 600mm. Grade C250 covers may be used for manholes non vehicular areas and all footways and verges.
    Inspection chambers in footways, pedestrian areas, private drives serving one property and landscaped areas to be provided with B125 covers. Chambers located under trafficked areas to have concrete surround.
12. All private Type 3 - 4 chambers in light vehicular of pedestrian areas to be fitted with inset covers of appropriate loading class where located in paved areas.
13. Covers/Inspection chambers must not be located directly outside doors.
14. Where private manholes and catchpits are constructed using precast concrete circular rings, they are to be constructed to BS 5911-200 and generally in accordance with Appendix C of the Sewerage Sector Guidance.
15. All abandoned, buried obstructions encountered during the construction of Highway & Drainage Works are to be broken out to bed level of drains and sewers, and to the formation of car parks and drives etc., and to sufficient depth to allow for laying service company's mains and services.
16. On sites where the risk of 'landfill' gas migration has been identified, all drainage entries under buildings should be sealed with a clay stank, comprising 1.0m length of clean 'puddle' clay bed, surround and backfill to pipe trench.
17. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
C1	Construction Issue.	06/12/22

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
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PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

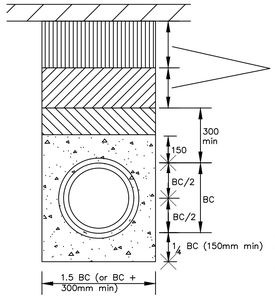
CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
DRAINAGE CONSTRUCTION DETAILS Sheet 2

SCALE	DATE	INIT	CHKD
NTS	05/22	me	cb

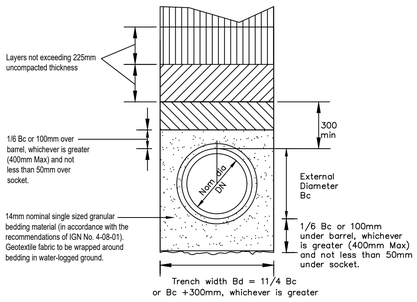
STATUS
CONSTRUCTION

DRG NO **22-012/601** REVISION **C1**

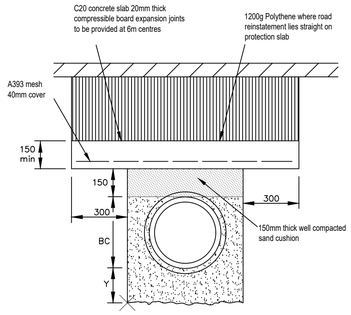


Concrete Bed and Surround. TYPE-AS

Pipes under carriageway or footways with less than 1.2m cover and also road gully connecting pipes.

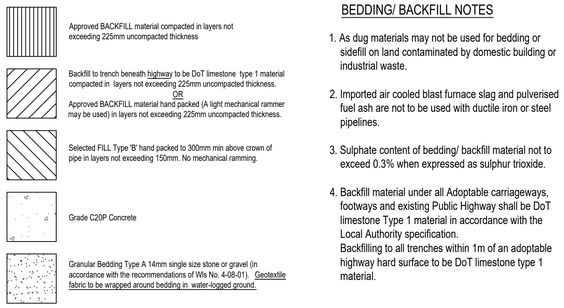


Class S granular surround, Bedding factor 2.2
(Cover to pipe 1.2m or greater)



Concrete Protection Slab

To be used where cover is less than 1.2m under roads, hardstandings etc. and less than 0.9m under fields



Y= 1/6 Bc or 100mm under pipe barrels whichever is the greater (but not less than 50mm under sockets)

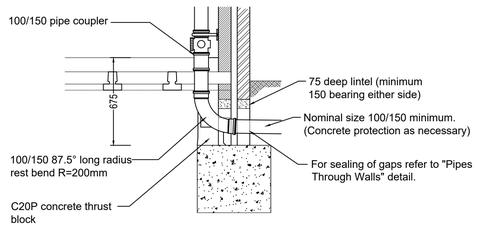
N.B.Where rock is found at the base of the trench this dimension is to be increased to 1/4 Bc and 150mm min under sockets (400mm max)

BC= Outside diameter of pipe.

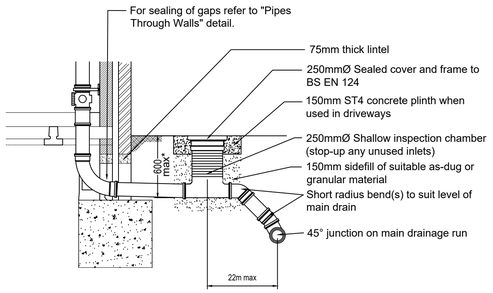
BEDDING/ BACKFILL NOTES

1. As dug materials may not be used for bedding or sidefill on land contaminated by domestic building or industrial waste.
2. Imported air cooled blast furnace slag and pulverised fuel ash are not to be used with ductile iron or steel pipelines.
3. Sulphate content of bedding/ backfill material not to exceed 0.3% when expressed as sulphur trioxide.
4. Backfill material under all Adoptable carriageways, footways and existing Public Highway shall be DoT limestone Type 1 material in accordance with the Local Authority specification.
   Backfilling to all trenches within 1m of an adoptable highway hard surface to be DoT limestone type 1 material.

BEDDING & BACKFILLING DETAILS

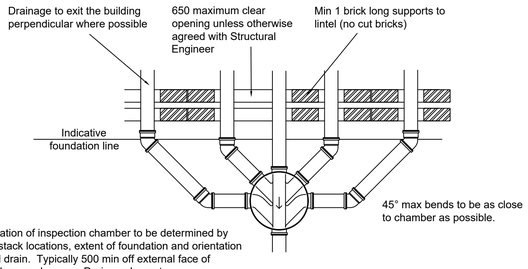


Universal Internal Discharge Stack & Ground Beam/Foundation Arrangement



Shallow Inspection Chamber

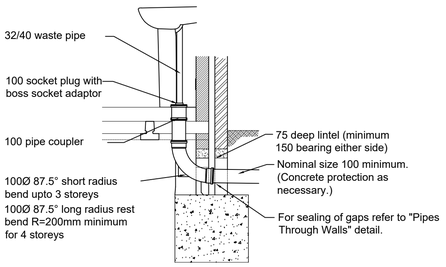
For use in soft or pedestrian areas only
(Similar detail for use with 450Ø I.C.'s where necessary at heads of drain runs)



Final location of inspection chamber to be determined by internal stack locations, extent of foundation and orientation of outfall drain. Typically 500 min off external face of brickwork or as shown on Drainage Layout.

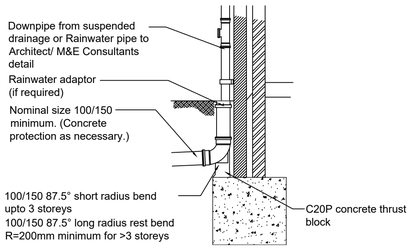
Universal Inspection Chamber - Full Usage Detail

To indicate lintel support requirements / typical drainage arrangement
(Inlet/Outlet & 4 branch connections for 100Ø pipes)
(Inlet/Outlet & 2 branch connections for 150Ø pipes)



Internal Waste Pipe Connection

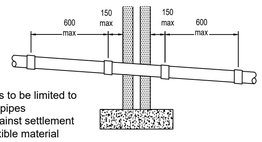
(Direct Connections, Floor Sockets, Floor Gullies etc.)



External Rainwater Downpipe (RWP) to Drain

Note: Invert Level of rest bend to be 450 nom below external finished ground level but may be increased to avoid pipe clashes with adjacent foul drains/I.C.'s exiting buildings above the ground beam.

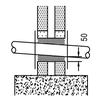
(a) Short length of pipe bedded in wall, joints fromed within 150 of either wallface. Adjacent rocker pipes of max. length 600 with flexible joints.



Pipe Joints beneath floors to be limited to minimum necessary and pipes adequately supported against settlement with 100mm granular/flexible material around the pipe.

Built In

(b) Arch or lintelled opening to give 50 space all round the pipe.



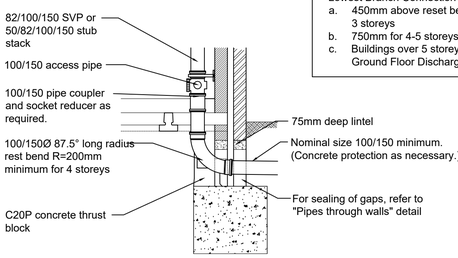
Mask opening both sides with rigid sheet material to prevent entry of fill or vermin.

Important: Fill void with compressible sealant to prevent entry of gas.

Lintel Opening

Pipes Through Walls

(Building Regs Part H1 - Diagram 7)



Lowest Branch Connection to be:
a. 450mm above reset bend for buildings up to 3 storeys
b. 750mm for 4-5 storeys.
c. Buildings over 5 storeys to have seperate Ground Floor Discharge Pipes.

Soil and Vent Pipe/Stub Stack Connection

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NOTES

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17. Drainage depths have been kept to a minimum where possible, however, depths in excess of 2m can not be avoided. Excavations to be carried out in accordance with HSE document HSG150 'Health and Safety in Construction'.

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
C1	Construction Issue.	06/12/22

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
DRAINAGE CONSTRUCTION DETAILS Sheet 3

SCALE	DATE	INIT	CHKD
NTS	05/22	me	cb

STATUS
CONSTRUCTION

DRG NO
22-012/602

REVISION
C1

SURFACE WATER MANHOLE SCHEDULE

Sheet 1 of 3

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Inverts	Diams Inv-soff	Manhole Size	Types: Manhole	Cover
S201 E. 489645.827 N. 99225.166	7.129 1.811		0 1.000 0	5.018	300	1200	B	D400
S202 E. 489731.896 N. 99209.796	6.610 0.973		a b 0 3.000	5.537 5.537 5.412	100 100 225	1200 x 900	C	D400
S203 E. 489699.736 N. 99200.487	6.380 0.920		a Gully b c Gully 0 2.000	5.310 5.360 5.310 5.235	150 100 150 225	1200 x 900	C	D400
S204 E. 489716.612 N. 99218.053	6.500 1.185		1 2.000 2 3.000 0 2.001	5.090 5.090 4.790	225 225 525	1200 x 975	C	D400
S205 E. 489695.454 N. 99244.830	6.855 1.708		1 2.001 a 0 2.002	4.625 5.030 4.802	525 150 525	1500	B	D400
S206 E. 489687.454 N. 99255.517	6.669 1.566		1 1.000 2 2.002 a 0 1.001	4.803 4.578 4.953 4.503	300 525 150 600	1500	B	D400
S207 E. 489705.775 N. 99269.608	6.724 1.693		1 1.001 0 1.002	4.431 4.431	600 600	1500	B	D400
S208 E. 489717.125 N. 99290.543	6.499 1.542		1 1.002 a 0 1.003	4.357 4.807 4.357	600 150 600	1500	B	D400
S209 E. 489718.552 N. 99309.682	6.406 1.497		1 1.003 a 0 1.004	4.309 4.759 4.309	600 150 600	1500	C	D400
S210 E. 489803.176 N. 99321.958	6.503 1.006		a 0 4.000	5.347 5.197	150 300	1200 x 900	C	D400
S211 E. 489784.671 N. 99328.121	6.760 1.344		1 4.000 a b 0 4.001	5.116 5.266 5.266 5.116	300 150 150 300	1350	C	D400
S212 E. 489755.371 N. 99330.847	6.646 1.353		1 4.001 0 4.002	4.993 4.993	300 300	1350	C	D400
S213 E. 489733.238 N. 99328.702	6.422 1.222		1 4.002 a 0 4.003	4.900 5.050 4.750	300 150 450	1350	C	D400
S214 E. 489714.411 N. 99323.155	6.390 1.516		1 1.004 2 4.003 0 1.005	4.274 4.424 4.124	600 450 750	1800	B	D400
S215 E. 489705.219 N. 99336.550	6.542 1.601		1 1.005 a 0 1.006	4.090 4.690 4.090	750 150 750	1800	B	D400

SURFACE WATER MANHOLE SCHEDULE

Sheet 2 of 3

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Inverts	Diams Inv-soff	Manhole Size	Types: Manhole	Cover
S216 E. 489681.732 N. 99356.570	6.693 1.917		1 1.006 a Gully b 0 1.007	4.026 4.626 4.626 4.026	750 150 150 750	1800	B	D400
S217 E. 489653.888 N. 99375.854	6.389 1.684		1 1.007 a 0 1.008	3.955 4.555 3.955	750 150 750	1800	B	D400
S218 E. 489648.780 N. 99387.078	6.253 1.574		1 1.008 0 1.009	3.929 3.929	750 750	1800	B	D400
S219 E. 489648.727 N. 99401.422	6.085 1.436		1 1.009 a 0 1.010	3.899 4.499 3.899	750 150 750	1800	C	D400
S220 E. 489670.676 N. 99438.236	6.200 1.640		1 1.010 a 0 1.011	3.810 4.410 3.810	750 150 750	1800	B	D400
S221 E. 489758.687 N. 99357.044	6.873 1.214		a 0 5.000	5.509 5.484	150 225	1350	C	D400
S222 E. 489758.006 N. 99376.722	7.056 1.465		1 5.000 a 0 5.001	5.366 5.441 5.291	225 150 300	1350	C	D400
S223 E. 489754.587 N. 99393.033	6.941 1.450		1 5.001 a b 0 5.002	5.191 5.341 5.341 5.116	300 150 150 375	1350	C	D400
S224 E. 489748.181 N. 99409.091	6.771 1.625		1 5.002 a 0 5.003	5.044 5.269 4.969	375 150 450	1350	C	D400
S225 E. 489743.147 N. 99417.898	6.671 1.594		1 5.003 a 0 5.004	4.627 5.227 4.627	450 150 450	1350	C	D400
S226 E. 489735.639 N. 99428.051	6.545 1.524		1 5.004 0 5.005	4.571 4.571	450 450	1350	C	D400
S227 E. 489719.284 N. 99442.844	6.225 1.349		1 5.005 a 0 5.006	4.426 4.726 4.426	450 150 450	1350	C	D400
S228 E. 489688.021 N. 99463.765	5.747 1.200		1 5.006 a 0 5.007	4.097 4.497 4.097	450 150 450	1350	C	D400
S229 E. 489675.289 N. 99467.243	5.396 0.900		1 1.011 2 5.007 0 1.012	3.746 4.056 3.671	750 450 825	1800 x 1275	C	D400
S230 E. 489632.639 N. 99482.494	5.314 0.900		1 1.012 0 1.013	3.589 3.589	825 825	1800 x 1275	C	D400

SURFACE WATER MANHOLE SCHEDULE

Sheet 3 of 3

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Inverts	Diams Inv-soff	Manhole Size	Types: Manhole	Cover
S231 E. 489625.276 N. 99481.022	4.955 0.555		1 1.013 0 1.014	3.575 3.575	825 825	Headwall		
S232 E. 489553.199 N. 99441.901	4.955 0.705		1 1.014 0 1.015	3.425 3.425	825 300	1800 x 1275	C	D400
S234 E. 489537.149 N. 99425.684	4.705 1.075		1 1.015	3.330	300	Headwall		
S235 E. 489745.239 N. 99252.862	6.800 0.870		a b Gully c 0 6.000	5.780 5.780 5.830 5.780	150 150 100 150	1200	C	D400
S236 E. 489756.292 N. 99274.554	6.850 1.080		1 6.000 a b Gully c 0 6.001	5.620 5.670 5.620 5.670 5.620	150 100 150 100 150	1200	C	D400
S237 E. 489743.615 N. 99280.226	6.850 1.180		1 6.001 a Yard Gully b c 0 6.002	5.520 5.570 5.570 5.570 5.520	150 100 100 100 150	1200	C	D400
S238 E. 489722.495 N. 99286.008	6.600 1.730		1 6.002 a 0 6.003	4.870 4.920 4.870	150 100 150	1200	B	D400
S239 E. 489706.438 N. 99391.710	6.460 1.200		a b Gully 0 7.000	5.160 5.110 5.110	100 150 150	1200	C	D400
S240 E. 489698.878 N. 99380.503	6.350 1.200		1 7.000 a b Gully c Gully d 0 7.001	5.000 5.050 5.000 5.000 5.050 5.000	150 100 150 150 100 150	1200	C	D400
S241 E. 489688.267 N. 99364.770	6.780 1.790		1 7.001 0 7.002	4.840 4.840	150 150	1200	B	D400

GREY HATCH DENOTES DRAINAGE DESIGN BY BROOKBANKS CONSULTING LIMITED. DATA SHOWN FOR INFORMATION ONLY. REFERENCE SHOULD BE MADE TO BROOKBANKS DRAWINGS FOR CONSTRUCTION.

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7. References 'a', 'b' etc denote private lateral or gully connections.

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Manhole information updated to reflect Brookbanks design update.	15/08/22
T3	Manhole information updated to reflect Brookbanks design update.	11/11/22
C1	Construction Issue.	06/12/22
C2	Manhole information added to reflect new S104 Adoption extent.	16/02/23

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
PRIVATE SURFACE WATER MANHOLE SCHEDULES Sheet 1 of 2

SCALE	DATE	INIT	CHKD
NTS	05/22	cb	mw

STATUS
CONSTRUCTION

DRG NO **22-012/650** REVISION **C2**

SURFACE WATER MANHOLE SCHEDULE

Private Plot Connections

Chamber Number	Cover Level	Invert Level	Depth to Invert	Easting	Northing	Min. Chamber Dia
s1	6.65	6.12	0.53	489715.944	99157.722	450 Chamber
s2	6.55	5.94	0.61	489703.868	99164.498	450 Chamber
s3	6.80	5.79	1.01	489710.829	99174.776	450 Chamber
s4	6.45	5.85	0.60	489668.974	99188.003	450 Chamber
s5	6.70	6.05	0.65	489677.808	99203.616	450 Chamber
s6	6.45	5.70	0.75	489678.282	99195.814	450 Chamber
s7	6.50	5.54	0.96	489686.913	99185.530	450 Chamber
s8	6.45	5.36	1.09	489696.531	99196.594	450 Chamber
s9	6.60	5.81	0.79	489742.559	99198.593	450 Chamber
s10	6.55	5.75	0.80	489722.313	99194.367	450 Chamber
s12	6.73	5.99	0.74	489704.691	99228.839	450 Chamber
s13	6.575	5.84	0.74	489712.866	99219.946	450 Chamber
s14	6.50	5.71	0.79	489720.247	99212.866	450 Chamber
s15	6.58	5.56	1.02	489730.395	99206.399	450 Chamber
s16	6.55	5.76	0.79	489745.599	99206.592	450 Chamber
s17	6.70	5.96	0.74	489712.608	99233.602	450 Chamber
s18	6.56	5.86	0.70	489732.425	99228.186	450 Chamber
s19	6.48	5.73	0.75	489725.130	99219.707	450 Chamber
s20	6.66	5.56	1.10	489736.750	99212.122	450 Chamber
s21	7.30	6.34	0.96	489646.256	99217.442	450 Chamber
s22	7.08	6.33	0.75	489661.647	99215.087	450 Chamber
s23	7.17	6.19	0.98	489655.184	99223.951	450 Chamber
s24	6.97	6.22	0.75	489671.947	99227.585	450 Chamber
s25	7.05	6.00	1.05	489667.858	99233.193	450 Chamber
s26	7.00	6.35	0.65	489680.390	99220.048	450 Chamber
s27	6.80	6.05	0.75	489684.904	99230.291	450 Chamber
s28	6.85	5.85	1.00	489677.607	99240.300	450 Chamber
s29	6.80	6.05	0.75	489694.806	99237.054	450 Chamber
s30	6.80	5.90	0.90	489688.344	99245.918	450 Chamber
s31	6.60	5.04	1.56	489686.545	99246.817	450 Deep Chamber
s32	6.72	5.97	0.75	489707.524	99255.432	450 Chamber
s33	6.80	5.90	0.90	489704.188	99259.863	450 Chamber
s34	6.85	5.77	1.08	489696.052	99253.738	450 Chamber
s35	6.75	6.07	0.68	489712.074	99244.839	450 Chamber
s36	6.81	5.61	1.20	489703.093	99244.187	450 Chamber
s37	6.75	5.25	1.50	489700.878	99247.129	450 Deep Chamber
s38	6.63	5.85	0.78	489768.773	99264.996	450 Chamber
s39	6.80	6.10	0.70	489764.776	99242.908	450 Chamber
s40	6.80	5.85	0.95	489754.996	99247.891	450 Chamber
s42	6.80	6.04	0.76	489780.281	99271.400	450 Chamber
s43	6.95	5.80	1.15	489762.622	99278.573	450 Chamber
s45	6.82	5.90	0.92	489741.050	99270.858	450 Chamber
s46	7.00	6.01	0.99	489747.689	99281.889	450 Chamber
s48	6.85	5.74	1.11	489714.015	99270.410	450 Chamber
s49	6.60	5.58	1.02	489720.640	99281.294	450 Chamber
s50	6.60	5.55	1.05	489722.932	99281.388	450 Chamber
s51	6.55	5.10	1.45	489723.979	99287.770	450 Chamber
s53	6.52	5.77	0.75	489733.324	99298.658	450 Chamber
s54	6.55	5.05	1.50	489726.688	99303.489	450 Deep Chamber
s55	6.55	4.86	1.69	489725.563	99302.096	450 Deep Chamber
s56	6.75	5.78	0.97	489749.296	99322.991	450 Chamber
s57	6.36	5.61	0.75	489736.662	99312.923	450 Chamber
s58	6.60	5.10	1.50	489735.880	99321.865	450 Deep Chamber
s59	6.725	5.975	0.75	489763.909	99313.792	450 Chamber
s60	6.93	5.84	1.09	489766.012	99324.145	450 Chamber
s61	6.80	6.05	0.75	489774.287	99313.347	450 Chamber
s62	6.97	5.70	1.27	489776.625	99323.021	450 Deep Chamber
s63	6.65	5.90	0.75	489786.900	99312.285	450 Chamber
s64	6.85	5.68	1.17	489787.374	99320.550	450 Chamber
s65	6.92	5.36	1.56	489784.308	99321.267	450 Deep Chamber
s66	6.77	5.94	0.83	489819.506	99352.884	450 Chamber
s67	6.60	5.62	0.98	489812.368	99330.889	450 Chamber
s69	6.65	5.88	0.77	489797.366	99333.244	450 Deep Chamber
s70	6.85	6.15	0.70	489763.530	99340.313	450 Chamber
s71	6.82	6.07	0.75	489779.155	99344.901	450 Chamber
s72	6.85	5.95	0.90	489778.069	99338.020	450 Chamber
s73	6.85	5.65	1.20	489790.895	99335.995	450 Chamber
s74	6.85	5.36	1.49	489789.654	99336.191	450 Deep Chamber
s75	6.35	6.02	0.33	489819.882	99360.016	450 Chamber
s76	6.35	5.85	0.50	489806.042	99360.016	450 Chamber
s77	6.30	5.85	0.45	489804.514	99381.592	450 Chamber
s78	6.48	5.76	0.72	489804.514	99374.114	450 Chamber
s79	7.00	6.30	0.70	489765.202	99356.678	450 Chamber
s80	6.95	5.49	1.46	489762.672	99374.345	450 Deep Chamber
s81	6.75	5.83	0.92	489787.799	99389.576	450 Chamber
s82	6.75	5.75	1.00	489787.799	99396.339	450 Chamber
s83	6.85	6.00	0.85	489772.006	99388.263	450 Chamber
s84	6.75	5.56	1.19	489772.006	99396.341	450 Chamber
s85	7.05	5.45	1.60	489762.874	99396.340	450 Deep Chamber
s86	7.10	5.40	1.70	489758.742	99394.702	450 Deep Chamber
s87	6.65	6.10	0.55	489739.389	99338.942	450 Chamber
s88	6.575	5.92	0.66	489738.605	99353.892	450 Chamber
s89	7.07	6.11	0.96	489747.475	99360.823	450 Chamber
s90	7.00	5.75	1.25	489752.899	99354.641	450 Deep Chamber
s91	7.10	6.50	0.60	489742.482	99375.289	450 Chamber
s92	7.025	6.28	0.75	489744.885	99377.832	450 Chamber
s93	7.05	6.18	0.87	489751.112	99378.917	450 Chamber
s94	6.75	5.40	1.35	489748.927	99391.086	450 Deep Chamber
s95	6.75	6.00	0.75	489735.709	99396.367	450 Chamber
s96	6.75	6.00	0.75	489731.725	99402.513	450 Chamber
s97	6.75	5.95	0.80	489733.401	99399.935	450 Chamber
s98	6.82	5.30	1.52	489742.767	99405.997	450 Deep Chamber
s99	6.75	6.02	0.73	489735.655	99415.188	450 Chamber
s100	6.85	5.30	1.55	489738.087	99412.940	450 Deep Chamber

SURFACE WATER MANHOLE SCHEDULE

Private Plot Connections

Chamber Number	Cover Level	Invert Level	Depth to Invert	Easting	Northing	Min. Chamber Dia
s101	6.45	5.70	0.75	489716.759	99386.704	450 Chamber
s102	6.45	5.73	0.72	489716.418	99363.938	450 Chamber
s103	6.45	5.57	0.88	489706.098	99370.899	450 Chamber
s104	6.45	5.49	0.96	489708.293	99374.153	450 Chamber
s105	6.60	5.61	0.99	489712.872	99408.303	450 Chamber
s106	6.45	5.48	0.97	489707.374	99400.152	450 Chamber
s107	6.45	5.68	0.77	489701.340	99391.199	450 Chamber
s108	6.35	5.40	0.95	489695.615	99382.704	450 Chamber
s111	6.60	5.72	0.88	489699.029	99347.321	450 Chamber
s112	6.50	5.90	0.60	489727.528	99338.654	450 Chamber
s113	6.55	5.78	0.77	489726.532	99348.037	450 Chamber
s114	6.45	5.63	0.82	489714.525	99348.828	450 Chamber
s115	6.57	4.71	1.86	489707.984	99339.336	450 Deep Chamber
s116	6.80	5.90	0.90	489681.339	99362.018	450 Chamber
s117	6.60	5.90	0.70	489676.228	99379.064	450 Chamber
s118	6.75	5.72	1.03	489669.924	99369.717	450 Chamber
s119	6.60	5.91	0.69	489679.477	99386.563	450 Chamber
s120	6.60	5.77	0.83	489668.602	99386.217	450 Chamber
s121	6.57	5.29	1.28	489661.269	99375.469	450 Deep Chamber
s122	6.25	4.76	1.49	489652.972	99398.768	450 Deep Chamber
s123	6.10	5.35	0.75	489669.597	99410.287	450 Chamber
s124	6.05	5.24	0.81	489662.120	99414.959	450 Chamber
s125	6.05	5.49	0.56	489677.174	99418.706	450 Chamber
s126	6.20	5.45	0.75	489678.951	99420.976	450 Chamber
s127	6.15	5.05	1.10	489670.173	99427.846	450 Chamber
s128	6.20	4.73	1.47	489672.010	99435.303	450 Deep Chamber
s129	6.20	5.50	0.70	489701.457	99433.257	450 Chamber
s130	6.10	5.33	0.77	489699.095	99437.998	450 Chamber
s131	6.20	5.20	1.00	489706.061	99446.677	450 Chamber
s132	6.18	5.30	0.88	489689.231	99446.782	450 Chamber
s133	6.24	5.04	1.20	489695.774	99454.934	450 Chamber
s134	6.14	4.62	1.52	489687.578	99461.318	450 Chamber
s135	6.20	5.60	0.60	489710.839	99430.848	450 Chamber
s136	6.35	5.55	0.80	489714.119	99428.215	450 Chamber
s137	6.45	5.42	1.03	489720.286	99435.899	450 Chamber
s138	6.30	5.05	1.25	489716.858	99439.818	450 Deep Chamber
s139	6.70	5.41	1.29	489810.061	99330.531	450 Deep Chamber
s140	6.75	5.95	0.80	489748.153	99234.460	450 Chamber
s141	6.75	6.00	0.75	489766.009	99259.341	450 Chamber

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REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Chamber and laterals updated to tie-in to Brookbanks design update. Sales area drainage moved to landscaped area and rationalised.	15/08/22
T3	Chambers moved to suit plot moves and landscape coordination.	16/09/22
T4	Chambers moved to suit utility coordination.	11/11/22
C1	Construction Issue.	06/12/22
C2	Chambers s41, s44, s47, s52, s109, s110 and s140 deleted.	16/02/23
C3	Chambers s93 & s94 relocated	17/07/23

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
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PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

DRAWING TITLE
PRIVATE SURFACE WATER MANHOLE SCHEDULES
Sheet 2 of 2

SCALE	DATE	INIT	CHKD
NTS	05/22	cb	mw

STATUS
CONSTRUCTION

DRG NO
22-012/651

REVISION
C3

FOUL WATER MANHOLE SCHEDULE

Sheet 1 of 2

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
F106	6.912		0	1.000	3.525 150	1200	A	D400
E. 489614.939	3.237							
N. 99205.742								
F107	6.705		1	1.000	2.926 150	1200	A	D400
			a		2.926 150			
E. 489687.989	3.629		0	1.001	2.926 150			
N. 99258.170								
F108	6.712		1	1.001	2.767 150	1200	A	D400
E. 489706.318	3.795		0	1.002	2.767 150			
N. 99273.484								
F109	6.542		1	1.002	2.660 150	1200	A	D400
			a		2.660 150			
E. 489713.996	3.732		0	1.003	2.660 150			
N. 99287.545								
F110	6.369		1	1.003	2.537 150	1200	A	D400
			a		BD 3.837 150			
E. 489717.174	3.682		0	1.004	2.537 150			
N. 99305.663								
F111	6.225		a		5.116 100	1200	C	D400
E. 489646.588	1.009		0	2.000	5.116 100			
N. 99388.440								
F112	6.356		1	2.000	4.953 100	1200	C	D400
E. 489651.345	1.303		0	2.001	4.953 100			
N. 99376.265								
F113	6.709		1	2.001	4.430 100	1200	B	D400
			a		BD 5.000 150			
E. 489685.249	2.179		0	2.002	4.380 150			
N. 99351.789								
F114	6.529		1	2.002	4.199 150	1200	B	D400
			a		BD 5.000 150			
E. 489705.251	2.180		0	2.003	4.199 150			
N. 99333.459								
F115	6.420		1	2.003	2.405 150	1200	A	D400
			2	1.004	2.405 150			
E. 489711.479	3.865		0	1.005	2.405 150			
N. 99324.574								
F116	6.425		1	1.005	2.244 150	1200	A	D400
			a		BD 3.544 150			
E. 489734.606	4.031		0	1.006	2.244 150			
N. 99331.354								
F117	6.470		a		4.888 150	1200	C	D400
			b		4.888 150			
E. 489806.492	1.432		0	3.000	4.888 150			
N. 99323.760								
F118	6.722		1	3.000	4.751 150	1200	B	D400
			a		4.751 150			
E. 489786.923	1.821		0	3.001	4.751 150			
N. 99329.901								
F119	6.653		1	1.006	2.090 150	1200	A	D400
			2	3.001	2.090 150			
E. 489757.513	4.413		a		BD 3.390 150			
N. 99333.287			0	1.007	2.090 150			
F120	6.921		1	1.007	1.914 150	1200	A	D400
			a		BD 3.214 150			
E. 489757.484	4.857		0	1.008	1.914 150			
N. 99359.841								

FOUL WATER MANHOLE SCHEDULE

Sheet 2 of 2

Manhole Number / Coordinates	Cover Level / Depth To Soffit	Connections	Pipe: Code	Pipe: Inverts	Pipe: Diams Inv-soff	Manhole Size	Types: Manhole	Types: Cover
F121	7.058		1	1.008	1.766 150	1200	A	D400
			a		BD 3.066 150			
E. 489755.988	5.142		b		BD 3.066 150			
N. 99382.062			0	1.009	1.766 150			
F122	6.802		1	1.009	1.590 150	1200	A	D400
			a		BD 2.890 150			
E. 489747.824	5.062		0	1.010	1.590 150			
N. 99407.112								
F123	6.450		a		BD 5.030 150	1200	B	D400
E. 489723.279	2.006		0	4.000	4.294 150			
N. 99438.010								
F124	6.572		1	4.000	1.439 150	1200	A	D400
			2	1.010	1.439 150			
E. 489735.673	4.983		0	1.011	1.439 150			
N. 99425.832								
F125	6.320		1	1.011	1.381 150	1200	A	D400
E. 489742.235	4.789							
N. 99431.295								
F126	6.850		a		5.390 100	1200	C	D400
E. 489753.575	1.360		0	5.000	5.340 150			
N. 99271.976								
F127	6.800		1	5.000	5.280 150	1200	C	D400
			a		5.330 100			
E. 489746.866	1.370		0	5.001	5.280 150			
N. 99277.650								
F128	6.550		1	5.001	3.460 150	1200	B	D400
			a		BD 5.110 100			
E. 489722.134	2.940		b		BD 5.110 100			
N. 99284.675			0	5.002	3.460 150			
F129	6.320		a		5.467 100	1200	C	D400
			b		5.467 100			
E. 489700.686	0.753		0	6.000	5.467 100			
N. 99381.396								
F130	6.750		1	6.000	5.190 100	1200	C	D400
			a		5.190 100			
E. 489688.319	1.460		b		BD 5.550 100			
N. 99363.046			0	6.001	5.140 150			

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REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Manhole information updated to reflect Brookbanks design update.	15/08/22
T3	Manhole information updated to reflect Brookbanks design update.	11/11/22
C1	Construction Issue.	06/12/22
C2	Manhole information added to reflect new S104 Adoption extent.	16/02/23
C3	Invert levels and pipe sizes changed to manholes F111, F112, F113, F129 & F130 following IWNL comments.	06/04/23
C4	F126 & F127 updated.	26/09/23

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES

Part of the Vistry Group

DRAWING TITLE

PRIVATE FOUL WATER MANHOLE SCHEDULES Sheet 1 of 2

SCALE	DATE	INIT	CHKD
NTS	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO **22-012/652** REVISION **C4**

FOUL WATER MANHOLE SCHEDULE

Private Plot Connections

Chamber Number	Cover Level	Invert Level	Depth to Invert	Easting	Northing	Min. Chamber Dia
f1	6.60	5.90	0.70	489708.029	99174.233	450 Chamber
f2	6.60	5.34	1.26	489688.003	99187.795	450 Deep Chamber
f3	7.10	6.50	0.60	489656.290	99209.443	315 Chamber
f4	6.75	5.78	0.97	489663.733	99204.809	450 Chamber
f5	6.75	5.00	1.75	489670.030	99209.400	450 Deep Chamber
f6	6.60	6.00	0.60	489735.934	99201.784	315 Chamber
f8	6.50	5.50	1.00	489718.993	99213.107	450 Chamber
f7	6.50	5.90	0.60	489715.570	99207.226	315 Chamber
f9	6.65	5.825	0.83	489708.360	99213.925	450 Chamber
f10	6.575	5.40	1.18	489712.942	99219.075	450 Chamber
f11	6.575	5.27	1.31	489706.332	99226.620	450 Chamber
f12	6.57	4.54	2.03	489699.774	99231.087	450 Deep Chamber
f13	6.60	4.33	2.27	489693.543	99241.333	450 Deep Chamber
f14	6.55	5.95	0.60	489743.238	99208.657	315 Chamber
f15	6.48	5.69	0.79	489725.475	99218.577	450 Chamber
f16	6.75	6.15	0.60	489698.405	99251.456	315 Chamber
f17	6.60	5.05	1.55	489700.416	99246.206	450 Deep Chamber
f18	6.70	4.30	2.40	489697.474	99244.207	1200 Manhole
f19	6.75	6.15	0.60	489755.293	99231.216	315 Chamber
f20	6.75	6.00	0.75	489747.413	99234.110	450 Chamber
f21	6.75	6.15	0.60	489768.663	99257.451	315 Chamber
f22	6.75	5.60	1.15	489762.142	99263.018	450 Chamber
f26	6.80	6.20	0.60	489777.405	99273.235	315 Chamber
f27	6.90	6.30	0.60	489751.310	99281.372	315 Chamber
f28	6.98	5.93	1.05	489756.515	99277.745	450 Chamber
f30	6.85	6.05	0.80	489745.015	99270.904	450 Chamber
f32	6.80	6.20	0.60	489709.060	99263.642	315 Chamber
f33	6.83	6.05	0.78	489715.876	99271.925	450 Chamber
f34	6.60	5.35	1.25	489721.481	99281.956	450 Deep Chamber
f35	6.55	5.95	0.60	489729.378	99286.712	315 Chamber
f37	6.40	5.80	0.60	489724.098	99316.340	315 Chamber
f38	6.54	4.55	1.99	489724.999	99305.467	450 Deep Chamber
f39	6.65	6.05	0.60	489740.033	99321.679	250 Chamber
f40	6.78	5.89	0.89	489752.147	99324.331	450 Chamber
f41	6.85	6.25	0.60	489765.766	99317.082	315 Chamber
f42	6.91	6.15	0.76	489763.929	99324.330	450 Chamber
f43	6.85	4.23	2.62	489759.118	99324.331	450 Deep Chamber
f44	6.85	6.25	0.60	489785.605	99313.230	315 Chamber
f45	6.675	5.925	0.75	489793.738	99318.042	450 Chamber
f46	6.65	5.79	0.86	489803.689	99314.829	450 Chamber
f47	6.35	5.63	0.72	489820.382	99383.782	450 Chamber
f48	6.35	5.33	1.02	489820.382	99358.769	450 Chamber
f49	6.70	6.10	0.60	489803.625	99333.824	315 Chamber
f50	6.70	4.95	1.75	489810.889	99331.117	450 Deep Chamber
f51	6.85	6.25	0.60	489767.476	99340.197	315 Chamber
f52	6.97	5.98	0.99	489774.731	99338.054	450 Chamber
f52a	6.76	5.88	0.88	489775.977	99346.063	450 Chamber
f53	7.05	6.45	0.60	489773.027	99357.479	315 Chamber
f54	7.00	5.69	1.31	489764.702	99356.178	450 Deep Chamber
f55	7.05	6.45	0.60	489773.039	99372.514	315 Chamber
f56	7.10	6.35	0.75	489764.702	99373.114	450 Deep Chamber
f57	7.02	3.80	3.22	489763.207	99358.110	1200 Manhole
f58	6.85	6.00	0.85	489778.941	99385.057	450 Chamber
f59	6.92	5.76	1.16	489765.488	99385.049	450 Chamber
f60	6.925	3.786	3.14	489763.165	99382.813	1200 Manhole
f61	6.45	5.70	0.75	489720.309	99334.678	450 Chamber
f62	6.65	6.05	0.60	489748.499	99349.905	315 Chamber
f63	6.575	5.83	0.75	489739.361	99349.025	450 Chamber
f64	6.68	5.69	0.99	489739.929	99338.205	450 Chamber
f65	6.61	4.175	2.44	489734.076	99337.645	450 Deep Chamber
f66	7.10	6.50	0.60	489750.494	99369.775	315 Chamber
f67	7.05	6.45	0.60	489748.772	99389.562	315 Chamber
f68	7.19	6.34	0.85	489751.835	99379.965	450 Chamber
f68a	7.06	6.16	0.90	489748.672	99393.283	450 Chamber
f69	6.95	6.35	0.60	489747.289	99394.853	315 Chamber
f70	6.75	6.15	0.60	489736.001	99413.445	315 Chamber
f71	6.88	3.58	3.30	489743.448	99404.271	1200 Manhole
f72	6.45	5.85	0.60	489716.366	99385.227	315 Chamber
f73	6.70	5.69	1.01	489708.611	99376.055	450 Chamber
f74	6.60	6.00	0.60	489711.881	99407.734	315 Chamber
f75	6.45	5.64	0.81	489697.008	99383.875	450 Chamber
f77	6.85	5.95	0.90	489692.556	99382.227	450 Chamber
f78	6.60	6.00	0.60	489663.413	99374.712	315 Chamber
f79	6.75	5.70	1.05	489682.319	99360.753	450 Chamber
f80	6.75	5.63	1.12	489685.259	99365.111	450 Chamber
f82	6.70	6.10	0.60	489697.574	99350.920	315 Chamber
f83	6.65	5.04	1.61	489710.308	99337.800	450 Deep Chamber
f84	6.35	5.80	0.55	489673.299	99434.100	450 Chamber
f85	6.15	5.46	0.69	489658.310	99411.874	450 Chamber
f86	6.26	5.297	0.96	489652.316	99400.342	450 Chamber
f87	6.35	5.20	1.15	489653.071	99392.600	450 Chamber
f88	6.20	5.60	0.60	489687.483	99460.372	315 Chamber
f89	6.45	5.06	1.39	489720.174	99434.850	450 Deep Chamber
f90	6.350	5.875	0.48	489714.926	99427.336	315 Chamber
f91	6.475	5.875	0.60	489727.283	99426.373	315 Chamber
f92	6.20	5.60	0.60	489688.980	99448.067	315 Chamber
f94	6.20	5.30	0.90	489705.357	99446.597	450 Chamber

No Dimensions are to be scaled from this drawing.

NOTES

1. Withers Design Associates Ltd have prepared this drawing for the sole use of the client. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Withers Design Associates Ltd for inaccuracies in the data supplied by any other party.
2. Setting Out coordinates to Inspection chambers refer to the centre of chamber.
3. Setting Out coordinates to precast manholes refer to the centre of pipe through the manhole chambers. Manhole rings can be eccentrically offset to suit site conditions and orientation of incoming/outgoing pipes.
4. Chamber sizes are MINIMUM and may be increased on site to suit local conditions and the number/diameter of incoming pipes.
5. All private chambers serving more than one property are to be 450mm min diameter.
6. Chamber types and depths are based on SSG standard details and Osma Wavin products. All chambers are designed to be Non Man Entry.
7. References 'a', 'b' etc denote private lateral or gully connections.

REVISIONS

P1	Preliminary Issue.	24/06/22
T1	Tender Issue.	30/06/22
T2	Chamber and laterals updated to tie-in to Brookbanks design update. Sales area drainage moved to landscaped area and rationalised.	15/08/22
T3	Chambers moved to suit plot moves and landscape coordination.	16/09/22
T4	Chambers moved to suit utility coordination.	11/11/22
C1	Construction Issue.	06/12/22
C2	Chambers f29, f31, f36, f76 and f81 deleted.	16/02/23
C3	Chambers amended to suit Plot 21 orientation change.	29/03/23
C4	Invert levels changed to manholes f64-87 following IWNL comments.	06/04/23
C5	Manholes f52 & f52a updated	07/07/23
C6	Manholes f68 & f68a updated	17/07/23
C7	Manhole f28 updated.	25/09/23

WITHERS DESIGN ASSOCIATES

CIVIL ENGINEERING & INFRASTRUCTURE DESIGN

Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT

HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT

Bovis Homes Linden HOMES

Part of the Vistry Group

DRAWING TITLE

PRIVATE FOUL WATER MANHOLE SCHEDULES
Sheet 2 of 2

SCALE	DATE	INIT	CHKD
NTS	05/22	cb	mw

STATUS

CONSTRUCTION

DRG NO	REVISION
22-012/653	C7

No Dimensions are to be scaled from this drawing.

NOTES

1. The contractor is responsible for obtaining all necessary licences for works in the Public Highway.
2. All adoptable drainage works shall conform to the requirements of "Sewer Sector Guidance (SSG) Appendix C: Design & Construction Guidance", to the satisfaction of Independent Water Networks Limited.
3. All fill material up to foundation level of the proposed highways to be approved and compacted in layers as directed and to the satisfaction of the Highways Inspector.
4. All redundant connections in existing manholes/ chambers that are affected by the works shall be sealed and the benching made good as directed and to the satisfaction of the Highways Inspector and/ or utility company involved.
5. Any existing live drains, sewers, ducts, cables etc. that will pass under the proposed highway shall be surveyed, probed, traced, rodded, jetted, CCTVd etc. to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/ or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/ or utility company involved.
6. Any existing live manholes, chambers, boxes etc. that will be located within the proposed highway shall be surveyed to ascertain their structural condition and suitability to fall within the new highway. If deemed necessary, special protection and/ or replacement may be required as directed and to the satisfaction of the Highways Inspector, Area Engineer and/ or Utility Company involved.
7. All ironwork within the carriageway to have 150mm deep frame. (manhole covers, gully gratings etc).
8. For Drainage construction details, refer to Drg. 22-012/800 to 602.
9. For Highway Construction details, refer to Drg. 22-012/475 to 479.
10. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have concrete cover slab protection in accordance with the Adopting Authorities requirements.
11. Bedding to all pipework to be Class S granular bed and surround.
12. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300m diameter shall be precast concrete or plastic.

Sewers by Bellway/Brookbanks
(Adopted under a separate S104 application)

- Adoptable Foul Sewer and Manhole
- Adoptable Storm Sewer and Manhole
- Highway Gully and Connection
- Rising Main
- Foul Water Lateral and Chamber
- Surface Water Lateral and Chamber

Proposed

- Adoptable Foul Sewer & Manhole — F10
- Adoptable Surface Water Sewer & Manhole — S30
- Manhole with external backdrop — BD IL119.58
- Highway Gully and Connection — DG
- Foul Water Lateral and Chamber
- Surface Water Lateral and Chamber
- Site Boundary
- 6m Sewer Easement

REVISIONS

P1	Preliminary Issue.	10/02/23
P2	Plot 21 orientation changed to achieve 1m to plot boundary. Pump station and substation layout changed to TA layout.	29/03/23
P3	Pipe gradient and size amended following IWNL comments.	08/04/23
C1	IWNL Technical Approval.	05/05/23

SHEET LAYOUT

1
2

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
Unit 12, Wakes Hall Business Centre
Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

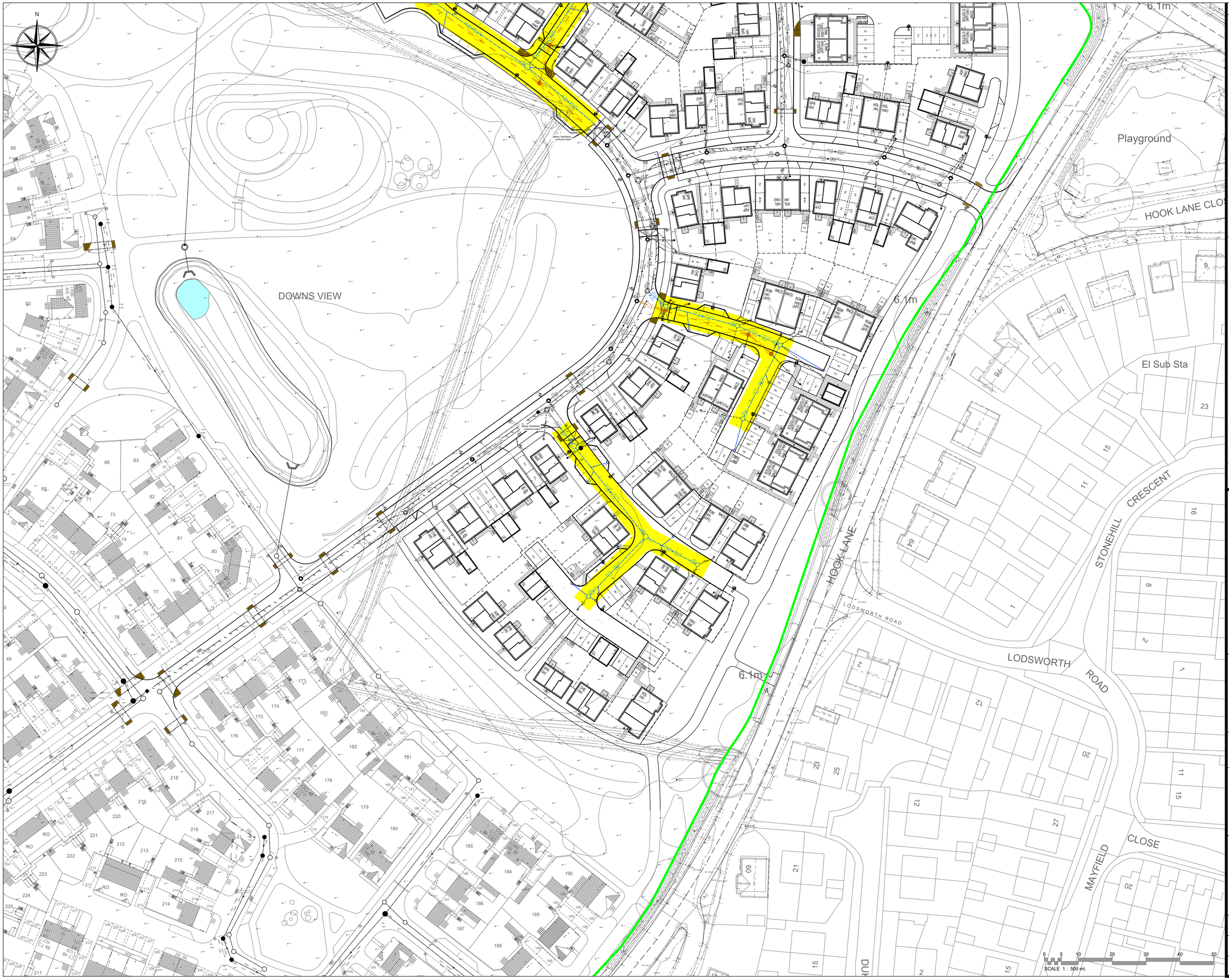
DRAWING TITLE
SECTION 104 PLAN GENERAL ARRANGEMENT Sheet 1 of 2

SCALE	DATE	INIT	CHKD
1:500	01/23	cb	mw

STATUS
CONSTRUCTION

DRG NO **22-012/700** REVISION **C1**

SCALE 1 : 500 mt



No Dimensions are to be scaled from this drawing.

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9. For Highway Construction details, refer to Drg. 22-012/475 to 479.
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Proposed

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- Manhole with external backdrop — BD IL119.58
- Highway Gully and Connection — DG
- Foul Water Lateral and Chamber
- Surface Water Lateral and Chamber
- Site Boundary
- 6m Sewer Easement

REVISIONS

P1	Preliminary Issue.	10/02/23
P2	Plot 21 orientation changed to achieve 1m to plot boundary. Pump station and substation layout changed to TA layout.	29/03/23
P3	Pipe gradient and size amended following IWNL comments.	06/04/23
C1	IWNL Technical Approval.	05/05/23

SHEET LAYOUT

1
2

WITHERS DESIGN ASSOCIATES
CIVIL ENGINEERING & INFRASTRUCTURE DESIGN
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Wakes Colne, Colchester, Essex
CO6 2DY
01206 247081

PROJECT
HOOK LANE, PAGHAM, WEST SUSSEX

CLIENT
Bovis Homes Linden HOMES
Part of the Vistry Group

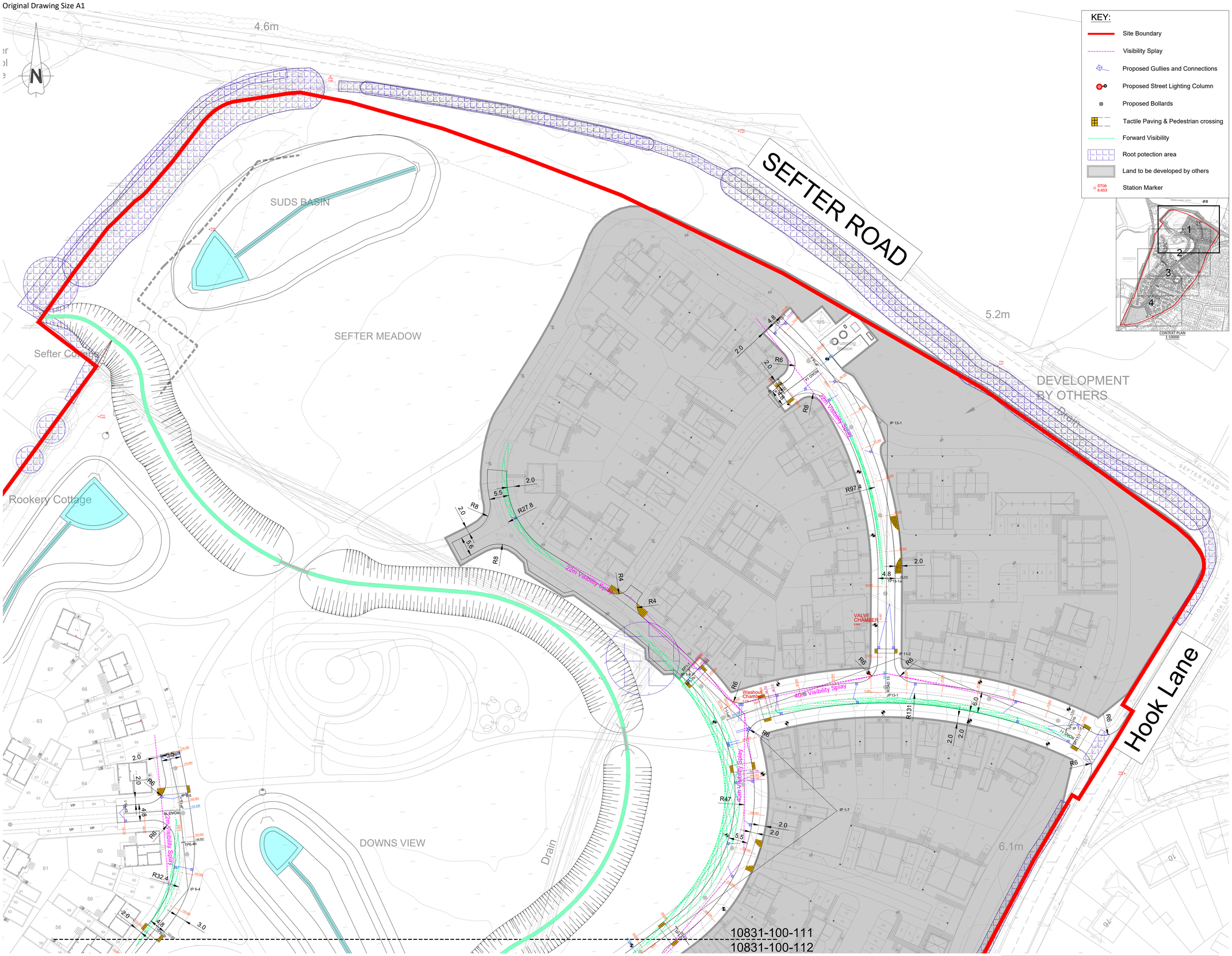
DRAWING TITLE
SECTION 104 PLAN GENERAL ARRANGEMENT Sheet 2 of 2

SCALE	DATE	INIT	CHKD
1:500	01/23	cb	mw

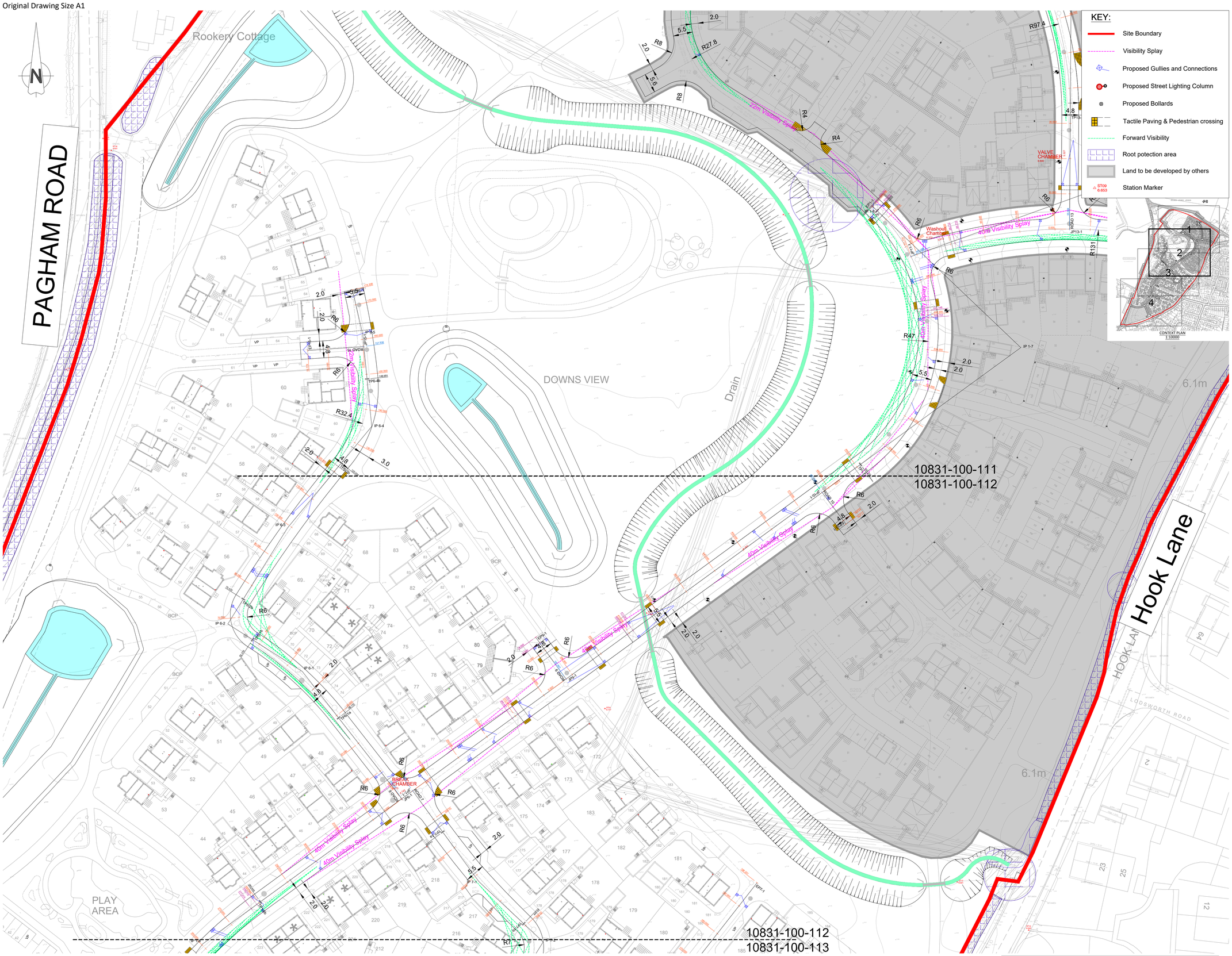
STATUS
CONSTRUCTION

DRG NO	REVISION
22-012/701	C1

Original Drawing Size A1



Original Drawing Size A1



Construction Design and Management (CDM)
Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services
2) Working adjacent to water courses and flood plain
3) Soft ground conditions
4) Working adjacent to live highways
5) Unchartered services

NOTES:

1. Do not scale from this drawing.
2. All dimensions are in metres unless otherwise stated.
3. Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
4. No part of this drawing may be copied or duplicated without the express permission of Brookbanks Consulting.
5. All materials, workmanship and highway construction works to be in accordance with the contract specification, and Specification for Highway Works.
6. All planting in visibility splays to be agreed and approved by the Engineer and in all cases no planting to be above 600mm in height above the carriageway. Also no obstructions of any kind within the visibility splay areas.
7. All Brookbanks Consulting drawings should also be read in conjunction with any drawings produced by third parties connected with this project.
8. All works within existing Public Highway, including any temporary works or traffic management measures, are subject to the approval of the approving highway authority. When works are required on the Public Highway, the Contractor shall liaise with and obtain all Statutory Approvals from Approving Authority , before commencing these works. These approvals include, but are not limited to, approval of traffic management measures, issue of works commencement notices, road opening notices, temporary traffic regulation orders etc.
9. All traffic management shall comply with the requirements as set out in Chapter 8 of the Traffic Signs Manual. Warning signs may be erected outside the indicated boundaries. Any obstructions to traffic or pedestrians shall be properly signed and protected with barriers, cones, signs, and lamps.
10. All traffic signs and road markings are to be in accordance with the 'Traffic Signs Regulations and General Directions 2016'.
11. Street lighting to be designed and approved by approving authority approved supplier.
12. Highway Inspector to be present during inspections / CBR testing.
13. For construction requirements and typical sections refer to Standard Details drawings 10831-100-131
14. For further notes and guidance refer to the respective approving authority construction details

K	Vistry layout updated	MA	DC	RM	02.03.23
J	Construction issue	MA	DC	RM	18.01.23
H	Watercourse Layout amended	CDW	DC	RM	18.11.22
G	Tactile paving amended, ditch amended, minor amendment to roads 1 & 11	SMG	DC	RM	25.10.22
F	Minor amendments	DC	RM	RM	04.07.22
E	Layout updated	DC	RM	RM	21.06.22
D	Various amendments	DC	DC	RM	31.05.22
C	Vistry layout updated	DC	DC	RM	25.04.22
B	Updated According to Bellway Comments	CL	DC	RM	21.01.22
A	Street Lighting Layout Updated	BM	DC	JI	17.12.21
-	First Issue	CL	JI	JI	25.11.21

BROOKBANKS
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Bellway

Hook Lane
Pagham

General Arragement
Sheet 2 of 4

Construction		June 2022
CL	DC	21.01.2022
1:500	10831-100-112	K

0 10 20 30 40 50
METRES

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

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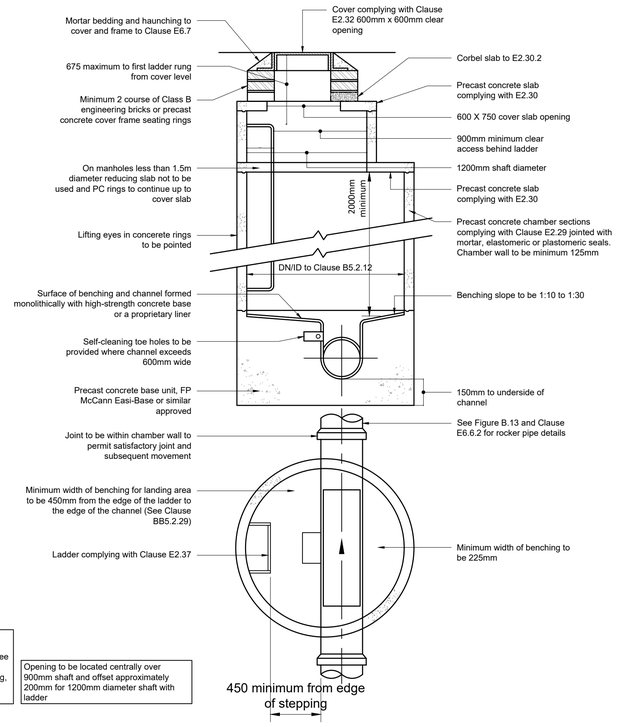
P:\10831\CAD\BCL\Working Drawings\10831-100-111K,112K,113K,114J General Arrangement.dwg

Original Drawing Size A1

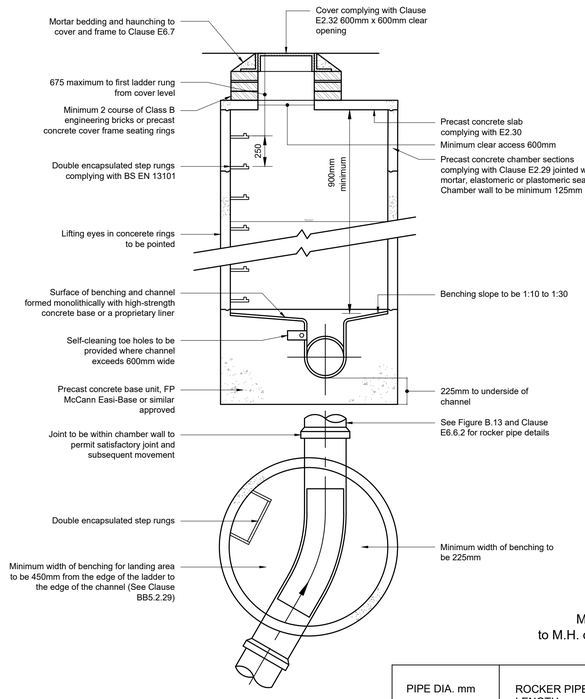


Manhole details indicate general arrangment adjacent to manhole covers for concrete pavement. See Architects plans for details. For flexible and concrete block paving, paving to continue to outside of frame.

Opening to be located centrally over 900mm shaft and offset approximately 200mm for 1200mm diameter shaft with ladder

TYPE A1 - DCG Figure B4

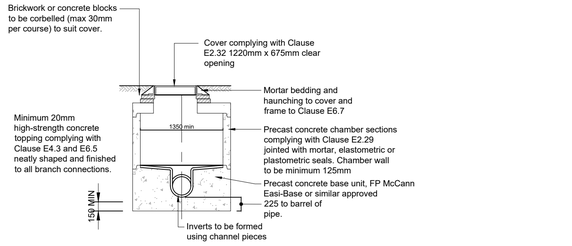
(Depth from cover level to soffit of pipe 3m to 6m)

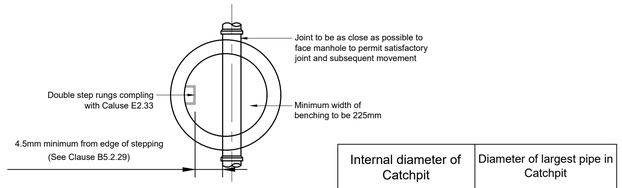


TYPE B - DCG Figure B9

(Max. depth from cover level to soffit of pipe 1.5m to 3.0m)

PIPE DIA. mm	ROCKER PIPE LENGTH m
150-600	0.6
675-750	1.0
>825	1.25





TYPE C

(Depth from cover level to soffit of pipe 1.0m - 1.5m, maximum pipe dia 450mm)

Internal diameter of Catchpit	Diameter of largest pipe in Catchpit
1200	Less than 375
1500	375 - 700
1800	750 - 900

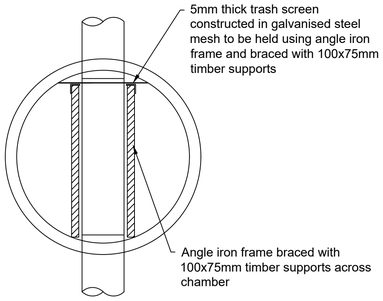
TYPICAL MANHOLE CONSTRUCTION DETAILS

N.T.S.

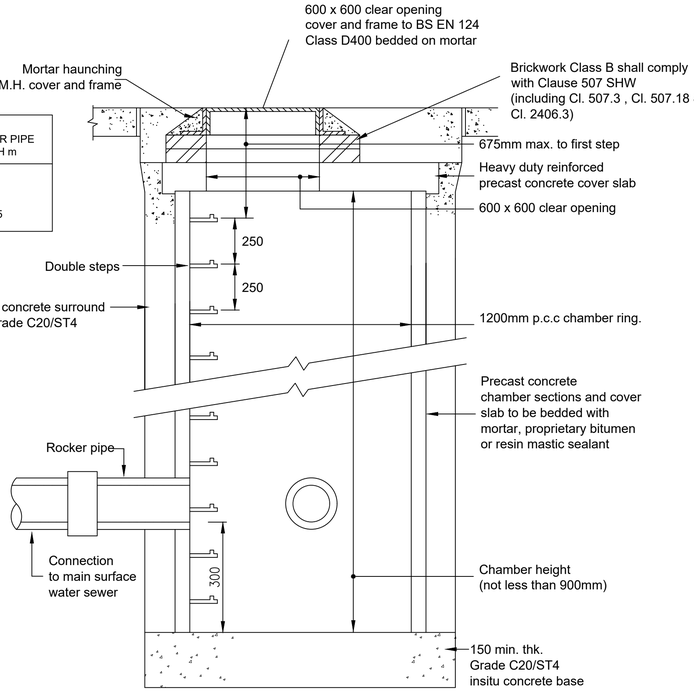
POSITION & SIZE OF ACCESS IN CONCRETE COVER SLAB		
SHAFT / CHAMBER SIZE	M/H DEPTH LESS THAN 1.5m	M/H DEPTH 1.5m OR GREATER
1200mm - 1350mm	1200 X 675mm CENTRAL	675 X 675mm ECCENTRIC
1500mm	1200 X 675mm CENTRAL	675 X 675mm ECCENTRIC
1800mm - 3000mm	1200 X 675mm CENTRAL	675 X 675mm ECCENTRIC

MANHOLE CHAMBER SIZES STANDARD DETAILS	
DIA OF LARGEST PIPE IN MH	INTERNAL CHAMBER DIA (mm)
LESS THAN 375mm	1200 (1350 where less than 1.5m deep)
375mm - 450mm	1350
500mm - 700mm	1500
750mm - 900mm	1800
GREATER THAN 900mm	ENGINEER TO ADVISE

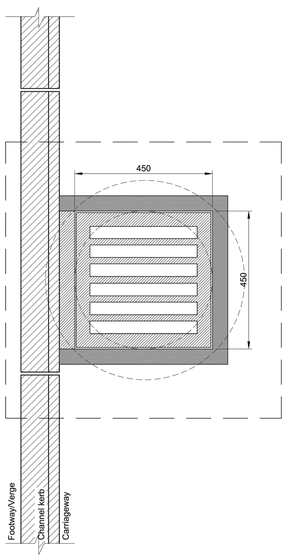
NOTE:
1. Temporary debris screen to be provided in the last surface water manhole of a run before discharge to a pond/basin
2. Upon completion of works and prior to final inspection temporary debris screen and associated materials are to be removed off site



TEMPORARY DEBRIS SCREEN

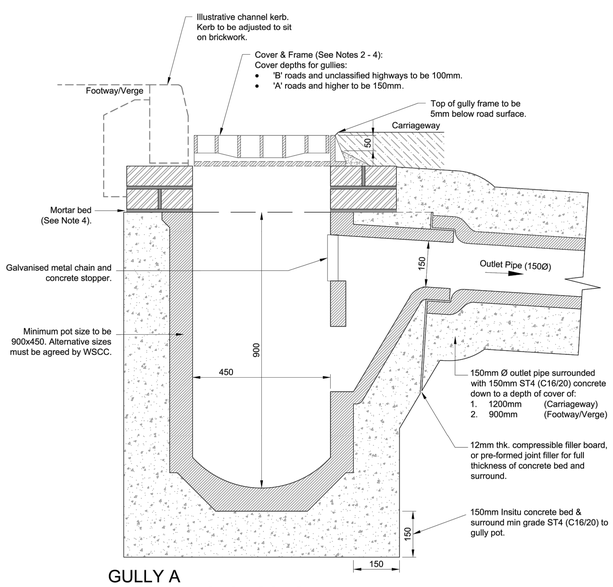


CATCHPIT DETAIL



GULLY A TYPE: PRECAST CONCRETE PLAN

(1:10)

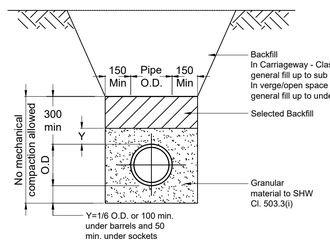


GULLY A TYPE: PRECAST CONCRETE SECTION

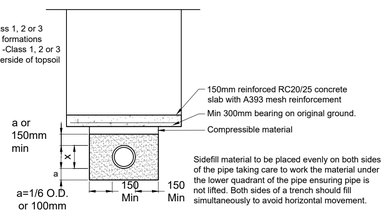
(1:10)

Pipe Bedding Notes

1. All bedding and selected backfill material to be in accordance with the Contract Specification, the HA Manual of Contract Documents for Highway Works Vol.1 Specification for Highway Works, unless otherwise noted.
2. Backfill and selected backfill to trenches:
   2.1. Paved Areas: Type 1 granular sub-base (to CL. 803) to underside of pavement construction.
   2.2. Unpaved Areas: Selected excavated material.



BED CLASS S
(Granular bed and surround)



BED CLASS Z
(Bedding factor 3.4
R.C Concrete Slab Protection)

PIPE BEDDING DETAILS
Scale 1:20

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Construction Design and Management (CDM)
Key Residual Risks

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1) Overhead and underground services
2) Working adjacent to water courses and flood plain
3) Soft ground conditions
4) Working adjacent to live highways
5) Unchartered services

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5. All materials, workmanship and highway construction works to be in accordance with the contract specification, and Specification for Highway Works.
6. For further notes and guidance refer to the respective approving authority construction details

E	Construction issue	MA	DC	RM	18.01.23
D	Type S and Z pipe bedding details added	DC	RM	RM	03.11.22
C	Type C manhole amended, Chamber size table amended	NO	RM	RM	29.07.22
B	Chamber Linework fixed	DC	DC	RM	08.02.22
A	Enlarged	CL	DC	RM	21.01.22
-	First Issue	CL	JI	JI	08.11.21

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Bellway

Hook Lane
Pagham

Standard Construction Details
Sheet 2
Drainage Details

Status		Status Date
Construction		Nov 2021
Drawn	**Checked**	**Date**
CL	JI	21.11.2021
Scale	**Number**	**Rev**
1:500	10831-100-132	E

0 10 20 30 40 50
METRES

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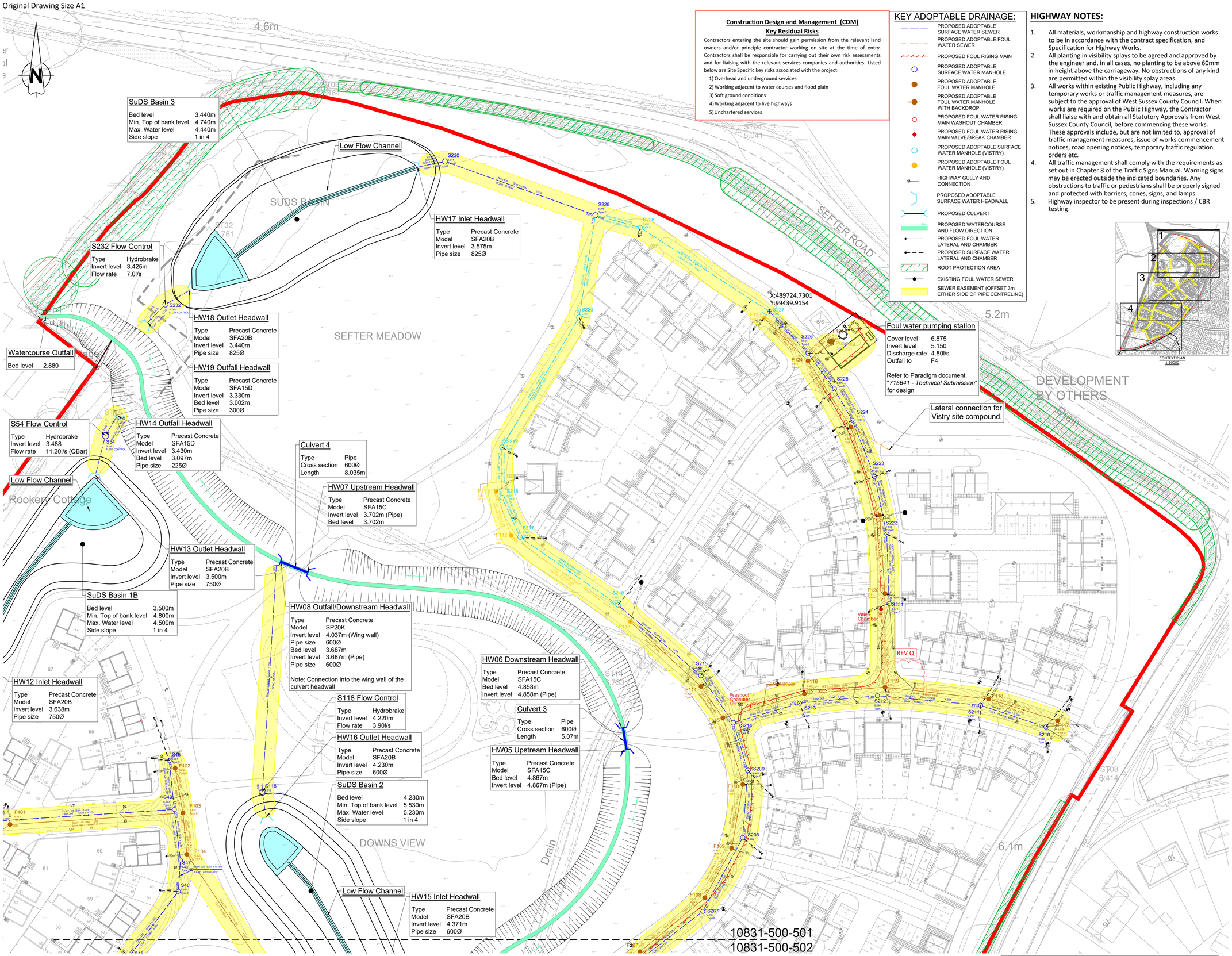
P:\10831\CAD\BCL\Working Drawings\10831-100-131B,132E,133C,134A,135A,136B,137A,138B Standard Construction Details.dwg

Original Drawing Size A1



Construction Design and Management (CDM)

Key Residual Risks

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2) Working adjacent to water courses and flood plain
3) Soft ground conditions
4) Working adjacent to live highways
5) Unchartered services

KEY ADOPTABLE DRAINAGE:

- PROPOSED ADOPTABLE SURFACE WATER SEWER
- PROPOSED ADOPTABLE FOUL WATER SEWER
- PROPOSED FOUL RISING MAIN
- PROPOSED ADOPTABLE SURFACE WATER MANHOLE
- PROPOSED ADOPTABLE FOUL WATER MANHOLE
- PROPOSED ADOPTABLE FOUL WATER MANHOLE WITH BACKDROP
- PROPOSED FOUL WATER RISING MAIN WASHOUT CHAMBER
- PROPOSED FOUL WATER RISING MAIN VALVE/BREAK CHAMBER
- PROPOSED ADOPTABLE SURFACE WATER MANHOLE (VISTRY)
- PROPOSED ADOPTABLE FOUL WATER MANHOLE (VISTRY)
- HIGHWAY GULLY AND CONNECTION
- PROPOSED ADOPTABLE SURFACE WATER HEADWALL
- PROPOSED CULVERT
- PROPOSED WATERCOURSE AND FLOW DIRECTION
- PROPOSED FOUL WATER LATERAL AND CHAMBER
- PROPOSED SURFACE WATER LATERAL AND CHAMBER
- ROOT PROTECTION AREA
- EXISTING FOUL WATER SEWER
- SEWER EASEMENT (OFFSET 3m EITHER SIDE OF PIPE CENTRELINE)

HIGHWAY NOTES:

1. All materials, workmanship and highway construction works to be in accordance with the contract specification, and Specification for Highway Works.
2. All planting in visibility splays to be agreed and approved by the engineer and, in all cases, no planting to be above 60mm in height above the carriageway. No obstructions of any kind are permitted within the visibility splay areas.
3. All works within existing Public Highway, including any temporary works or traffic management measures, are subject to the approval of West Sussex County Council. When works are required on the Public Highway, the Contractor shall liaise with and obtain all Statutory Approvals from West Sussex County Council, before commencing these works. These approvals include, but are not limited to, approval of traffic management measures, issue of works commencement notices, road opening notices, temporary traffic regulation orders etc.
4. All traffic management shall comply with the requirements as set out in Chapter 8 of the Traffic Signs Manual. Warning signs may be erected outside the indicated boundaries. Any obstructions to traffic or pedestrians shall be properly signed and protected with barriers, cones, signs, and lamps.
5. Highway inspector to be present during inspections / CBR testing

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7. Any discrepancies between the information displayed in this drawings and others to be reported to the engineer before the commencement of works.
8. Any damage caused to existing footways, roads or other third party property to be made good to the county engineers requirements.

ADOPTABLE DRAINAGE NOTES:

1. All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG)
2. All Sustainable Urban Drainage (SuDS) to be in accordance with CIRIA report C753 "*The SuDS Manual*" and supporting documents.
3. Culverts designed to be in accordance with CIRIA report C689 "*Culvert Design and Operation Guide*".
4. Contractor to check all existing invert levels and watercourse bed/water levels for outfalls on site ahead of commencing work.
5. All lateral connections to be 150mm diameter unless noted otherwise.
6. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
7. Bedding to all remaining pipework is to be class S granular bed and surround.
8. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

150Ø - 22kN/m²	375Ø - 45kN/m²	750Ø - 90kN/m²
225Ø - 28kN/m²	450Ø - 54kN/m²	825Ø - 99kN/m²
300Ø - 36kN/m²	600Ø - 72kN/m²	

9. Drainage indicated as (Vistry) to be constructed by Vistry as per the design indicated on this drawing.

R	Drainage amendments	IL	MT	RM 24.09.24
Q	Additional gully added to junction near F119, easements shown	DC	DC	MT 26.03.24
P	Layout amended to show new gas governor and substation locations, amended pumping station.	MA	DC	RM 11.07.23
N	IL and Pumping station chamber amended	DC	MT	RM 03.04.23
M	Vistry layout updated	MA	DC	RM 02.03.23
L	Construction issue	MA	DC	RM 18.01.23
K	Minor amendments to headwalls	DC	RM	RM 13.12.22
J	Culvert invert levels amended, ditch amended, root protection area shown.	DC	RM	RM 18.11.22
H	Lateral inverts amended, backdrops added, manhole type indicated, S225 & S226 dropped.	DC	RM	RM 26.07.22
G	Culverts amended	DC	RM	RM 31.06.22
F	Drainage amended to lower levels as per client request	DC	RM	RM 21.06.22
E	Drainage to be built by Vistry indicated	DC	RM	RM 06.05.22
D	Lateral inverts added to Vistry parcels. Culvert headwall details added. Vistry parcel layout amended.	DC	RM	RM 08.04.22
C	Drainage levels amended, details added, notes updated	DC	DC	RM 01.04.22
B	Key amended	DC	DC	RM 07.02.22
A	Amended as per comments received	DC	DC	RM 21.01.22
-	First Issue	CL	JI	JI 14.12.21

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Bellway

Hook Lane
Pagham

Adoptable Drainage Layout Sheet 1 of 4

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
CL	JI	14.12.2021
Scale	**Number**	**Rev**
1:500	18031-500-501	R

0 10 20 30 40 50
METRES

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P:\10831\CAD\BCL\Working Drawings\10831-500-501R,502N,503P,504Q Adoptable Drainage Layout.dwg

A1

E DRAINAGE:
ED ADOPTABLE
E WATER SEWER
ED ADOPTABLE FOUL
EWER
ED FOUL RISING MAIN
ED ADOPTABLE
E WATER MANHOLE
ED ADOPTABLE
TER MANHOLE
ED ADOPTABLE
TER MANHOLE
CKDROP
ED FOUL WATER RISING
SHOUT CHAMBER
ED FOUL WATER RISING
VE/BREAK CHAMBER
ED ADOPTABLE SURFACE
ANHOLE (VISTRY)
ED ADOPTABLE FOUL
ANHOLE (VISTRY)
Y GULLY AND
TION
ED ADOPTABLE
E WATER HEADWALL
ED CULVERT
ED WATERCOURSE
W DIRECTION
ED FOUL WATER
AND CHAMBER
ED SURFACE WATER
AND CHAMBER
OTECTION AREA
FOUL WATER SEWER
ASEMENT (OFFSET 3m
IDE OF PIPE CENTRELINE)

Low Flow Channel

Rookery Cottage

HW13 Outlet Headwall

Type	Precast Concrete
Model	SFA20B
Invert level	3.500m
Pipe size	750Ø

SuDS Basin 1B

Bed level	3.500m
Min. Top of bank level	4.800m
Max. Water level	4.500m
Side slope	1 in 4

HW12 Inlet Headwall

Type	Precast Concrete
Model	SFA20B
Invert level	3.638m
Pipe size	750Ø

HW07 Upstream Headwall

Type	Precast Concrete
Model	SFA15C
Invert level	3.702m (Pipe)
Bed level	3.702m

HW08 Outfall/Downstream Headwall

Type	Precast Concrete
Model	SP20K
Invert level	4.037m (Wing wall)
Pipe size	600Ø
Bed level	3.687m
Invert level	3.687m (Pipe)
Pipe size	600Ø

Note: Connection into the wing wall of the culvert headwall

S118 Flow Control

Type	Hydrobrake
Invert level	4.220m
Flow rate	3.90l/s

HW16 Outlet Headwall

Type	Precast Concrete
Model	SFA20B
Invert level	4.230m
Pipe size	600Ø

SuDS Basin 2

Bed level	4.230m
Min. Top of bank level	5.530m
Max. Water level	5.230m
Side slope	1 in 4

HW06 Downstream Headwall

Type	Precast Concrete
Model	SFA15C
Bed level	4.858m
Invert level	4.858m (Pipe)

Culvert 3

Type	Pipe
Cross section	600Ø
Length	5.07m

HW05 Upstream Headwall

Type	Precast Concrete
Model	SFA15C
Bed level	4.867m
Invert level	4.867m (Pipe)

DOWNS VIEW

Drain

Low Flow Channel

HW15 Inlet Headwall

Type	Precast Concrete
Model	SFA20B
Invert level	4.371m
Pipe size	600Ø

10831-500-501
10831-500-502

HW04 Downstream Headwall

Type	Precast Concrete
Model	SFA15D
Invert level	5.085m (Pipe)
Bed level	5.085m

Culvert 2

Type	Pipe
Cross section	600Ø
Length	15.65m

HW03 Upstream Headwall

Type	Precast Concrete
Model	SFA15D
Bed level	5.116m
Invert level	5.116m (Pipe)

HW10 Inlet Headwall

Type	Precast Concrete
Model	SFA20C
Invert level	3.937m
Pipe size	450Ø

Low Flow Channel

Break Chamber

HW01 Downstream Headwall

Type	Precast Concrete
Model	SFA15C
Bed level	4.933m
Invert level	4.933m (Pipe)

HW02 Upstream Headwall

Type	Precast Concrete
Model	SFA15C
Bed level	4.944m
Invert level	4.944m (Pipe)

Culvert 1

Type	Pipe
Cross section	600Ø
Length	5.20m

Existing Headwall

Invert level 4.890m (Pipe)

Washout Chamber

Valve Chamber

RUN S2

RUN S3

HOOK LANE

LODSWORTH ROAD

PLAY AREA

10831-500-502
10831-500-503

CONTEXT PLAN
1:10000

REV N

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225Ø - 28kN/m²	450Ø - 54kN/m²	825Ø - 99kN/m²
300Ø - 36kN/m²	600Ø - 72kN/m²	

9. Drainage indicated as (Vistry) to be constructed by Vistry as per the design indicated on this drawing.

N	Additional gully added to junction near F119, easements shown	DC	DC	MT	26.03.24
M	Vistry layout updated	MA	DC	RM	02.03.23
L	Construction issue	MA	DC	RM	18.01.23
K	Minor amendments to headwalls	DC	RM	RM	13.12.22
J	Culvert invert levels amended, ditch amended, root protection area shown.	DC	RM	RM	18.11.22
H	Lateral inverts amended, backdrops added, manhole type indicated	DC	RM	RM	26.07.22
G	Culverts amended	DC	RM	RM	31.06.22
F	Drainage amended to lower levels as per client request	DC	RM	RM	21.06.22
E	Drainage to be built by Vistry indicated	DC	RM	RM	06.05.22
D	Lateral inverts added to Vistry parcels. Culvert headwall details added.	DC	RM	RM	08.04.22
C	Drainage levels amended, details added, notes updated	DC	DC	RM	01.04.22
B	Rising main additional chamber at low point added	DC	DC	RM	07.02.22
A	Amended as per comments received	DC	DC	RM	21.01.22
-	First Issue				

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Bellway

Hook Lane
Pagham

Adoptable Drainage Layout
Sheet 2 of 4

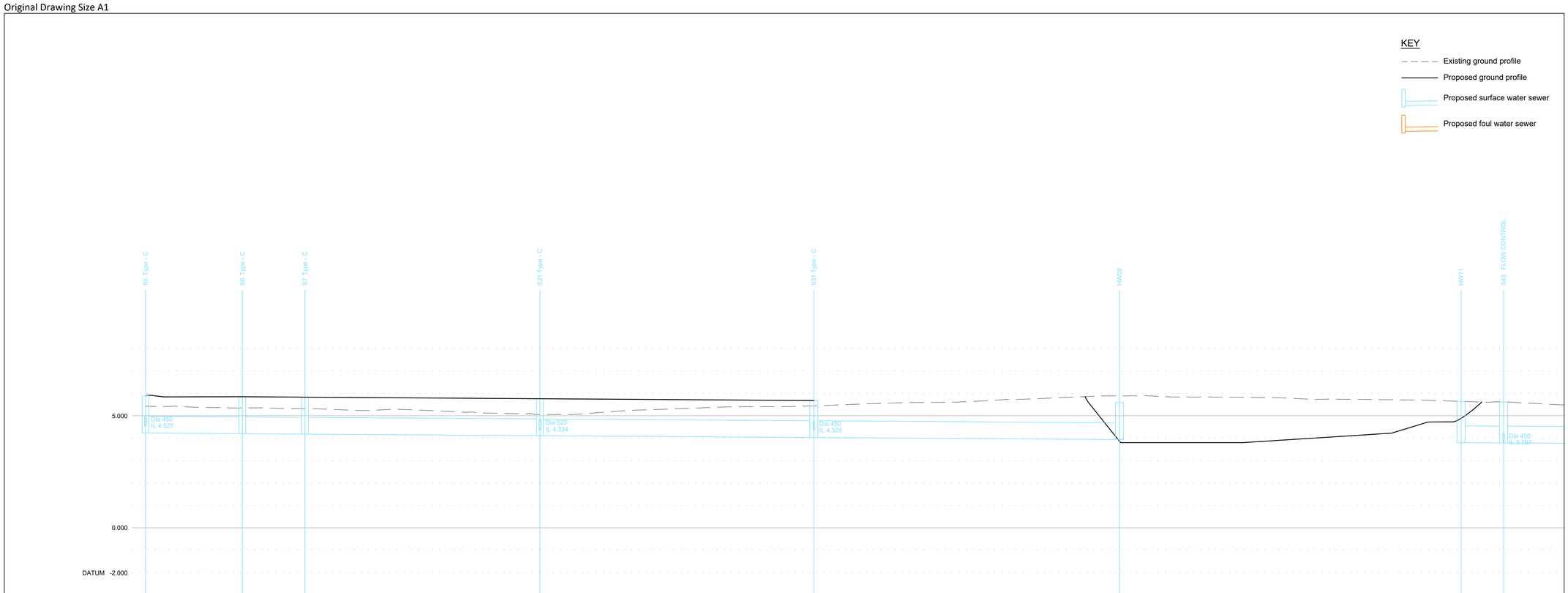
Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
CL	JI	14.12.2021
Scale	**Number**	**Rev**
1:500	10831-500-502	N

0 10 20 30 40 50
METRES

ulting Limited 2023

ngs\10831-500-501Q,502N,503P,504Q Adoptable Drainage Layout.dwg

Original Drawing Size A1



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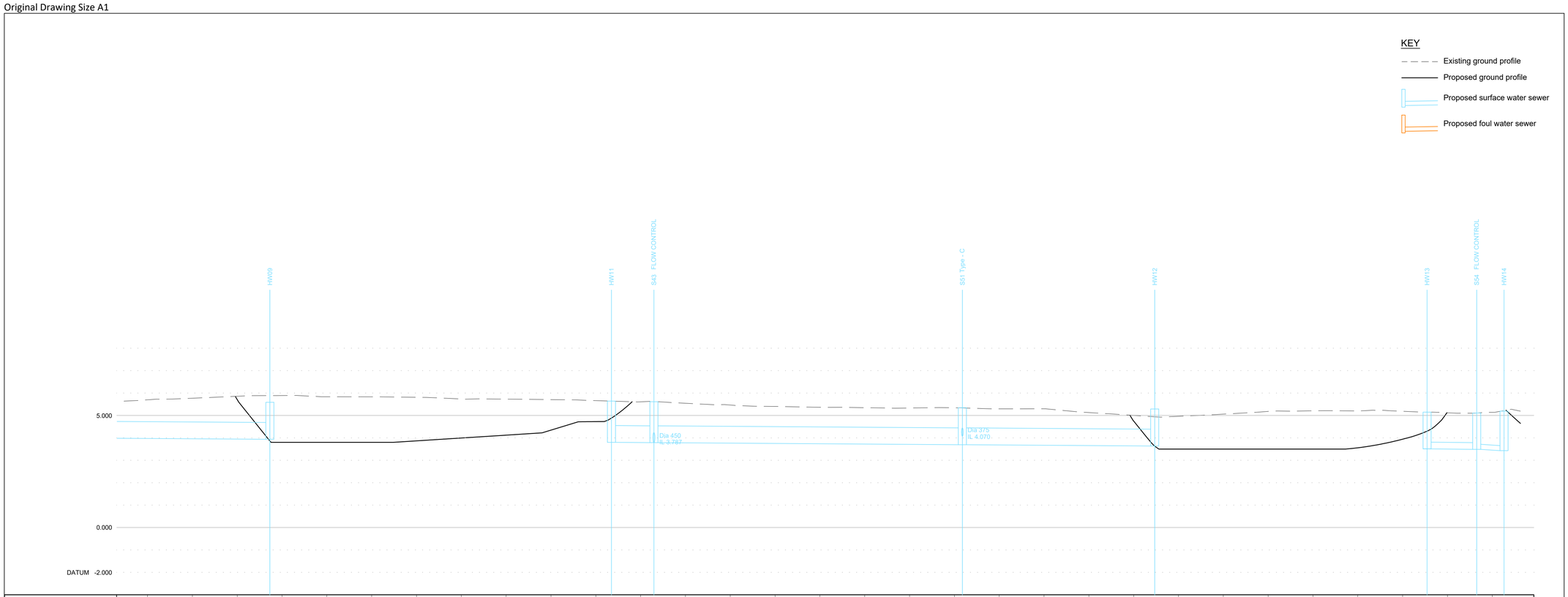
Original Drawing Size A1

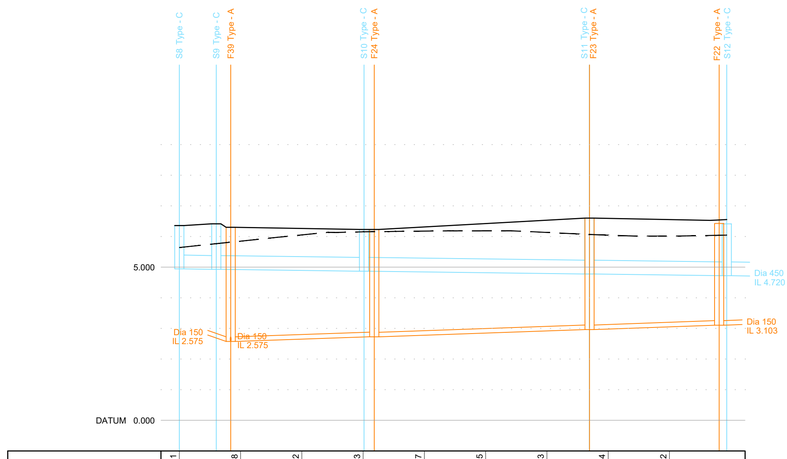


| | | |

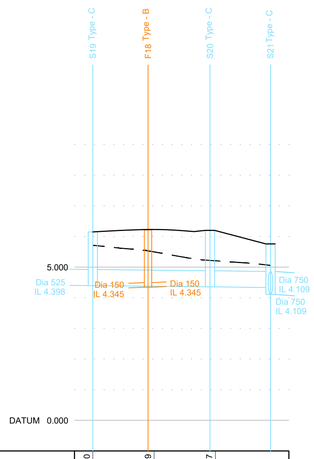
Original Drawing Size A1

KEY

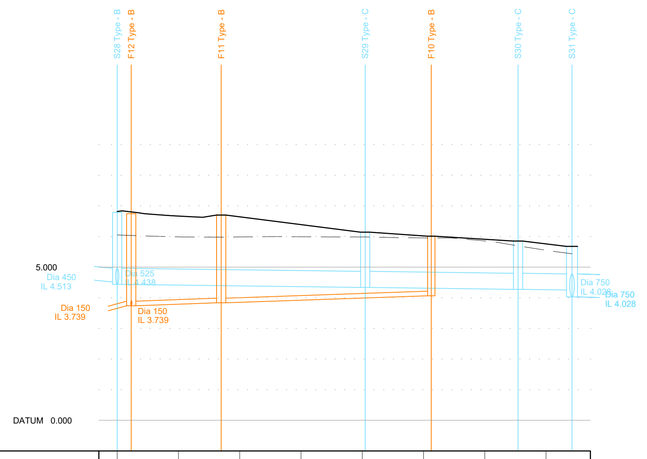
- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	5.641		5.848	6.052	6.153	6.177	6.185	6.133	6.044	6.012	
STORMWATER COVER LEVEL	6.357	6.410		6.230			6.600			6.412	
STORMWATER INVERT		4.943	4.928	4.928		4.868	4.868		4.776	4.776	4.720
STORMWATER DETAILS	Pipe 2.000 Dia 450 Circular CONC 1 in 402		Pipe 2.001 Dia 450 Circular CONC 1 in 402			Pipe 2.002 Dia 450 Circular CONC 1 in 400			Pipe 2.003 Dia 450 Circular CONC 1 in 401		
STORMWATER LENGTHS	6.035		24.113			36.778			22.434		
FOULWATER COVER LEVEL		6.300		6.230			6.600			6.426	
FOULWATER INVERT			2.575		2.727	2.724		2.961	2.961		3.103
FOULWATER DETAILS			Pipe 1.013 Dia 150 Circular CLAY 1 in 149			Pipe 1.012 Dia 150 Circular CLAY 1 in 149			Pipe 1.011 Dia 150 Circular CLAY 1 in 149		
FOULWATER LENGTHS			22.716			35.402			21.157		



GROUND LEVEL	6.150	6.229	5.207	
STORMWATER COVER LEVEL	6.150		6.200	5.759
STORMWATER INVERT		4.398	4.356	4.356	4.334
STORMWATER DETAILS		Pipe 2.007 Dia 525 Circular CONC 1 in 455	Pipe 2.008 Dia 525 Circular CONC 1 in 449	
STORMWATER LENGTHS		19.121	9.884	
FOULWATER COVER LEVEL		6.212		



GROUND LEVEL	6.815	6.696	5.984	5.991	5.985	5.953	5.855	5.551	
STORMWATER COVER LEVEL	6.786				6.220		5.750	5.678	
STORMWATER INVERT		4.438			4.337	4.337	4.275	4.275	4.253
STORMWATER DETAILS			Pipe 4.005 Dia 525 Circular CONC 1 in 401			Pipe 4.006 Dia 525 Circular CONC 1 in 403		Pipe 4.007 Dia 525 Circular CONC 1 in 400	
STORMWATER LENGTHS			40.476			24.959		8.809	
FOULWATER COVER LEVEL	6.745		6.700			6.010			
FOULWATER INVERT		3.739		3.837	3.837		4.065		
FOULWATER DETAILS		Pipe 3.001 Dia 150 Circular CLAY 1 in 150		Pipe 3.000 Dia 150 Circular CLAY 1 in 150					
FOULWATER LENGTHS		14.699		34.260					

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4. All lateral connections to be 150mm diameter unless noted otherwise.
5. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
6. Bedding to all remaining pipework is to be class S granular bed and surround.
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150Ø - 22kN/m²	375Ø - 45kN/m²	750Ø - 90kN/m²
225Ø - 28kN/m²	450Ø - 54kN/m²	825Ø - 99kN/m²
300Ø - 36kN/m²	600Ø - 72kN/m²	

E	Construction issue	MA	DC	RM	18.01.23
D	S8, S9, S29 & S30 amended, manhole type indicated	DC	RM	RM	26.07.22
C	S30 amended	DC	RM	RM	04.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
A	Cover levels updated	DC	RM	RM	31.05.22
-	First Issue	DC	RM	RM	08.04.22

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Bellway

Hook Lane
Pagham

Adoptable Drainage Longsections Sheet 3

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-552	E

0 10 20 30 40 50
METRES

Construction Design and Management (CDM)
Key Residual Risks

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2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways
6) Unchartered services

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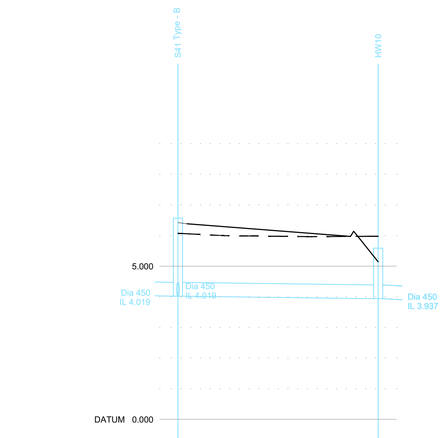
P:\10831\CAD\BCL\Working Drawings\10831-500-550D,551E,552E,553D,554E,555E,556E,557E,558D,559D,560C Adoptable Drainage Longsections.dwg

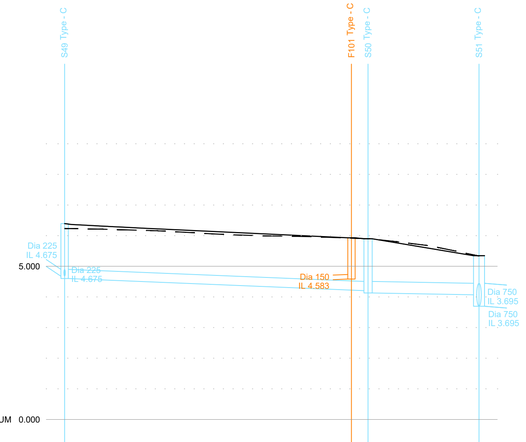
Original Drawing Size A1

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	6.421	5.989	5.966	5.812
STORMWATER COVER LEVEL	6.568			5.587
STORMWATER INVERT	4.019			3.937
STORMWATER DETAILS		Pipe 6.007 Dia 450 Circular CONC 1 in 399		
STORMWATER LENGTHS		32.681		



GROUND LEVEL	6.393	6.272	6.106	6.010	5.989	5.894	5.656	
STORMWATER COVER LEVEL	6.393					5.899		5.345
STORMWATER INVERT	4.600					4.205	4.130	4.070
STORMWATER DETAILS		Pipe 8.003 Dia 300 Circular CLAY 1 in 125					Pipe 8.004 Dia 375 Circular CONC 1 in 302	
STORMWATER LENGTHS		49.533					18.111	
FOULWATER COVER LEVEL						5.931		

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225Ø - 28kN/m^2 450Ø - 54kN/m^2 825Ø - 99kN/m^2
300Ø - 36kN/m^2 600Ø - 72kN/m^2

D	Construction issue	MA	DC	RM	18.01.23
C	Manhole type indicated	MA	DC	RM	26.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
A	Cover levels updated	DC	RM	RM	31.05.22
-	First Issue	DC	RM	RM	08.04.22

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Bellway

Hook Lane
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Adoptable Drainage Longsections Sheet 4

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-553	D

0 10 20 30 40 50
METRES

Construction Design and Management (CDM)
Key Residual Risks

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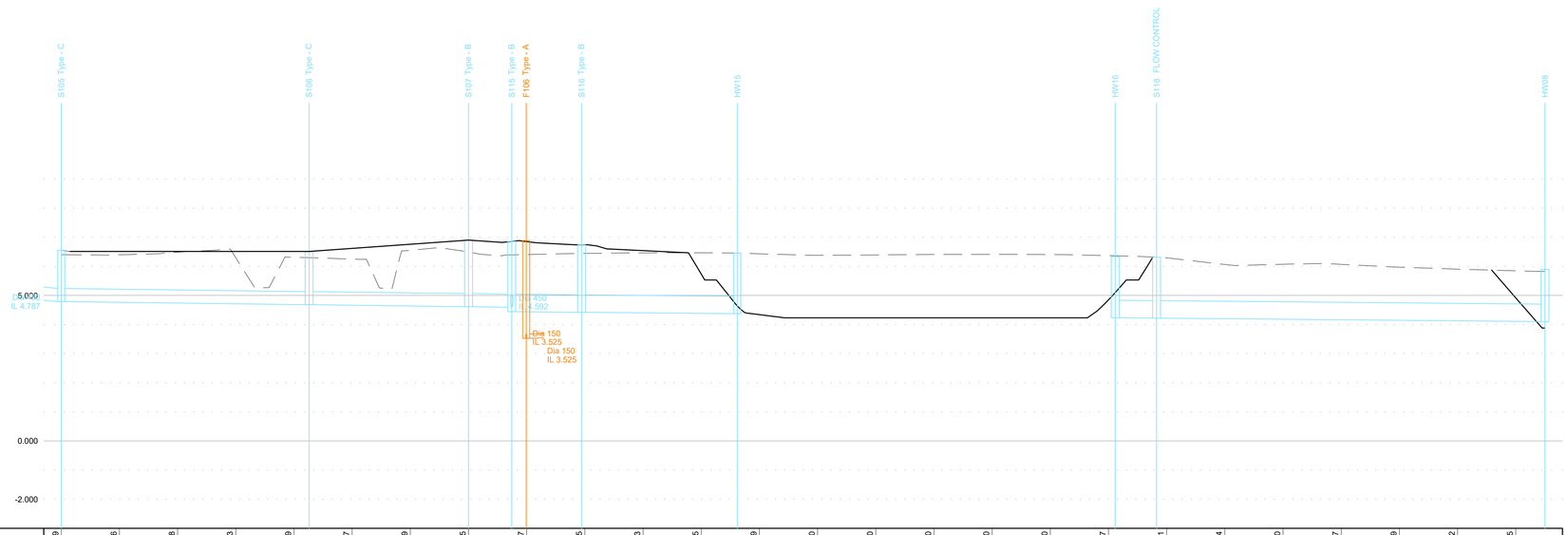
P:\10831\CAD\BCL\Working Drawings\10831-500-550D,551E,552E,553D,554E,555E,556E,557E,558D,559D,560C Adoptable Drainage Longsections.dwg

Original Drawing Size A1



KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer

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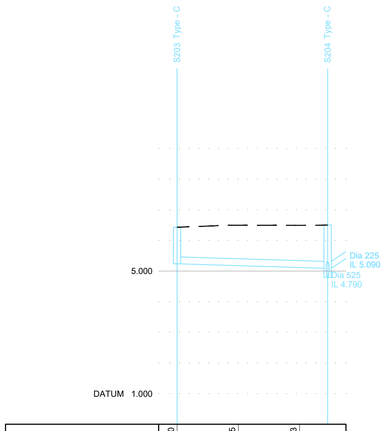
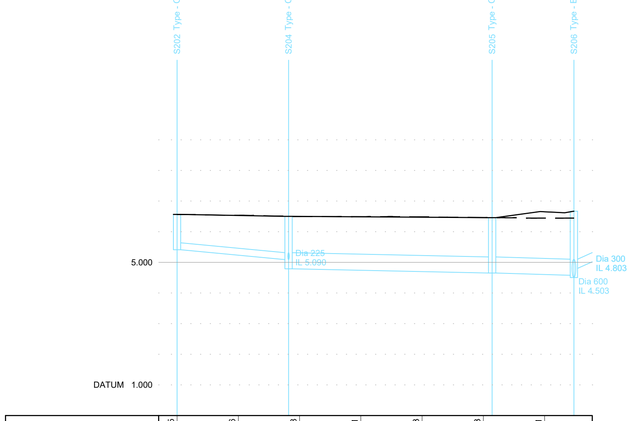
Original Drawing Size A1



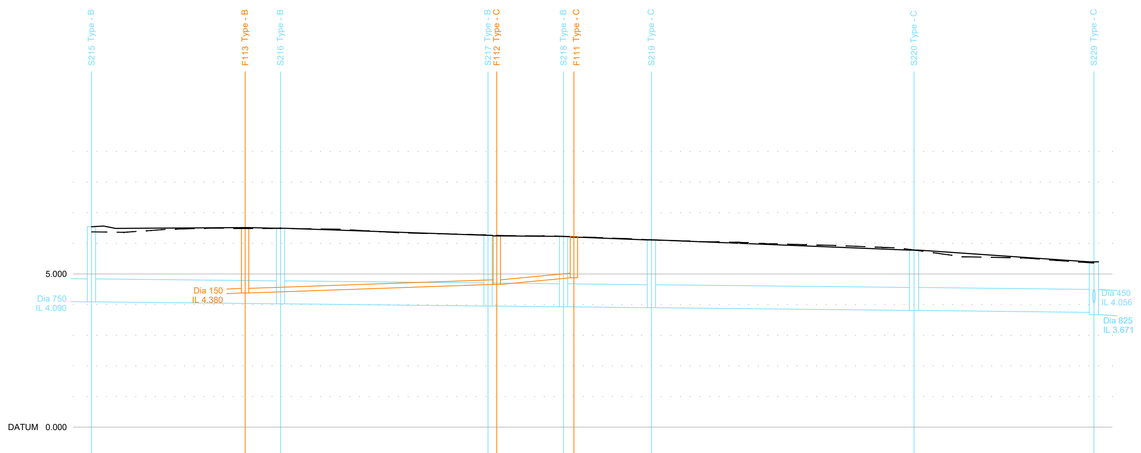
GROUND LEVEL	6.430	6.495	6.493	
STORMWATER COVER LEVEL	6.430			6.501
STORMWATER INVERT	5.235			5.090
STORMWATER DETAILS	Pipe 3.000 Dia 225 Circular CLAY 1 in 169			
STORMWATER LENGTHS	24.572			



GROUND LEVEL	6.565	6.538	6.498	6.491	6.483	6.463	6.651
STORMWATER COVER LEVEL	6.565	6.501				6.460	6.669
STORMWATER INVERT	5.412	5.090	4.790			4.652	4.652	4.578
STORMWATER DETAILS	Pipe 2.000 Dia 225 Circular CLAY 1 in 57	Pipe 2.001 Dia 525 Circular CONC 1 in 241				Pipe 2.002 Dia 525 Circular CONC 1 in 180	
STORMWATER LENGTHS	18.202	33.227				13.350	

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	6.542	6.425	6.496	6.490	6.464	6.349	6.299	6.245	6.207	6.127	6.052	5.992	5.939	5.862	5.623	5.532	5.408			
STORMWATER COVER LEVEL	6.542			6.492			6.266		6.227	6.111				5.780			5.386			
STORMWATER INVERT	4.090			4.026	4.026		3.955	3.955	3.929	3.929	3.899	3.899		3.810	3.810		3.746			
STORMWATER DETAILS	Pipe 1.006 Dia 750 Circular CONC 1 in 482			Pipe 1.007 Dia 750 Circular CONC 1 in 477			Pipe 1.008 Dia 750 Circular CONC 1 in 474	Pipe 1.009 Dia 750 Circular CONC 1 in 478		Pipe 1.010 Dia 750 Circular CONC 1 in 482				Pipe 1.011 Dia 750 Circular CONC 1 in 459						
STORMWATER LENGTHS	30.862			33.870			12.332	14.344		42.861				29.372						
FOULWATER COVER LEVEL				6.513				6.242		6.225										
FOULWATER INVERT				4.380				4.659	4.659	4.875										
FOULWATER DETAILS				Pipe 3.001 Dia 150 Circular CLAY 1 in 150				Pipe 3.000 Dia 150 Circular CLAY 1 in 61												
FOULWATER LENGTHS				41.816				13.202												

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300Ø - 36kN/m²	600Ø - 72kN/m²	

E	Construction issue	MA	DC	RM	18.01.23
D	F111 amended	DC	RM	RM	21.11.22
C	Manhole type indicated	MA	DC	RM	26.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
A	Cover levels updated	DC	RM	RM	31.05.22
-	First Issue	DC	RM	RM	08.04.22

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Bellway

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Pagham

Adoptable Drainage Longsections Sheet 6

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-555	E

0 10 20 30 40 50
METRES

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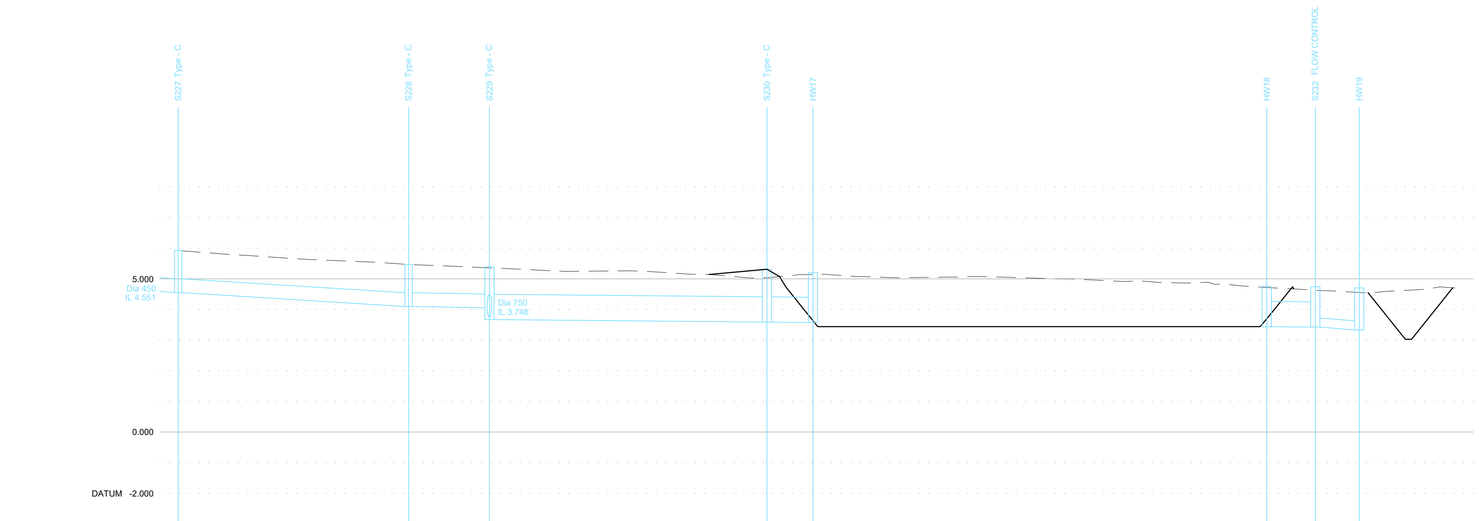
P:\10831\CAD\BCL\Working Drawings\10831-500-550D,551E,552E,553D,554E,555E,556E,557E,558D,559D,560C Adoptable Drainage Longsections.dwg

Original Drawing Size A1

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



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Original Drawing Size A1

KEY

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- Proposed surface water sewer
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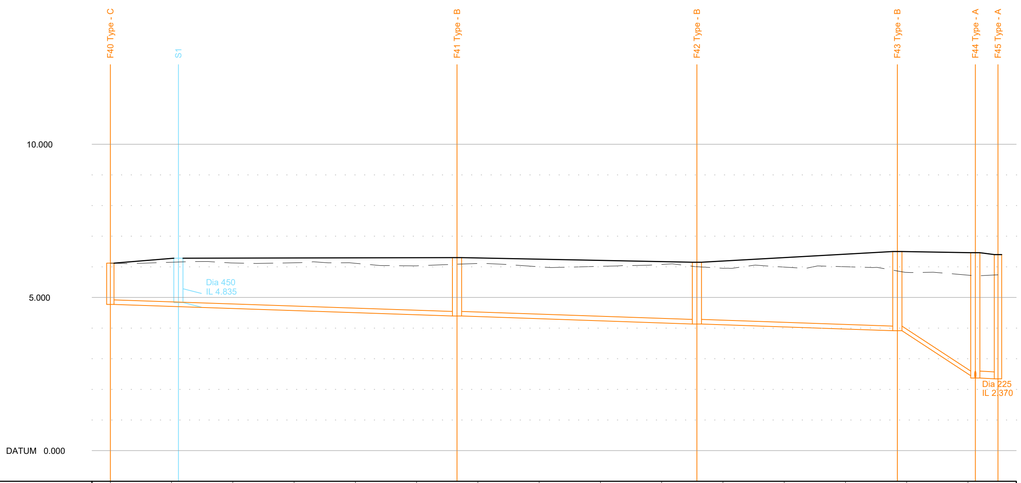
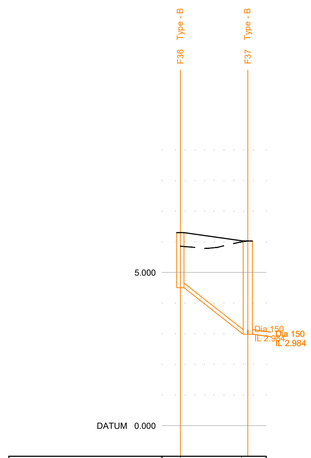
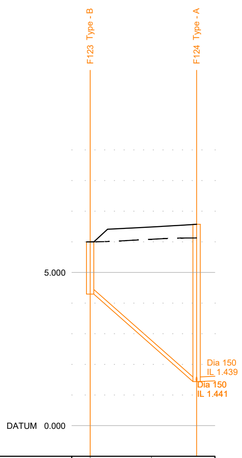


GROUND LEVEL	6.121	6.149	6.126	6.131	6.115	6.032	6.109	6.001	6.015	6.077	5.962	5.991	6.002	5.817	5.728
STORMWATER COVER LEVEL		6.280													
STORMWATER INVERT															
STORMWATER DETAILS															
STORMWATER LENGTHS															
FOULWATER COVER LEVEL	6.121					6.300				6.150			6.500	6.460	6.400
FOULWATER INVERT	4.771					4.394	4.394			4.133	4.133		3.915	3.915	2.445	2.370	2.340
FOULWATER DETAILS		Pipe 9.000 Dia 150 Circular CLAY 1 in 150					Pipe 9.001 Dia 150 Circular CLAY 1 in 150				Pipe 9.002 Dia 150 Circular CLAY 1 in 150			Pipe 9.003 Dia 150 Circular CLAY 1 in 9	Pipe 1.015 Dia 225 Circular CLAY 1 in 148	
FOULWATER LENGTHS		56.592					39.153				32.728			12.725	3.697	



GROUND LEVEL	5.858	5.997
FOULWATER COVER LEVEL	6.300	6.027
FOULWATER INVERT	4.502	2.984
FOULWATER DETAILS	Pipe 8.000 Dia 150 Circular CLAY 1 in 7	
FOULWATER LENGTHS	11.013	



GROUND LEVEL	5.997	6.484
FOULWATER COVER LEVEL	5.997	6.572
FOULWATER INVERT	4.294	1.439
FOULWATER DETAILS	Pipe 5.000 Dia 150 Circular CLAY 1 in 6	
FOULWATER LENGTHS	17.376	

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150Ø - 22kN/m^2	375Ø - 45kN/m^2	750Ø - 90kN/m^2
225Ø - 28kN/m^2	450Ø - 54kN/m^2	825Ø - 99kN/m^2
300Ø - 36kN/m^2	600Ø - 72kN/m^2	

Construction Design and Management (CDM)
Key Residual Risks

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E	Construction issue	MA	DC	RM 18.01.23
D	Manhole type indicated, pipe 1.015 upsized	MA	DC	RM 26.07.22
C	Drainage amended to lower levels as per client request	CDW	DC	RM 20.06.22
B	Cover levels updated	DC	RM	RM 31.05.22
A	Sections F40-F45 & F36-F37	DC	RM	RM 13.05.22
-	First Issue	DC	RM	RM 08.04.22

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Bellway

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Pagham

Adoptable Drainage Longsections Sheet 8

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-557	E

0 10 20 30 40 50
METRES

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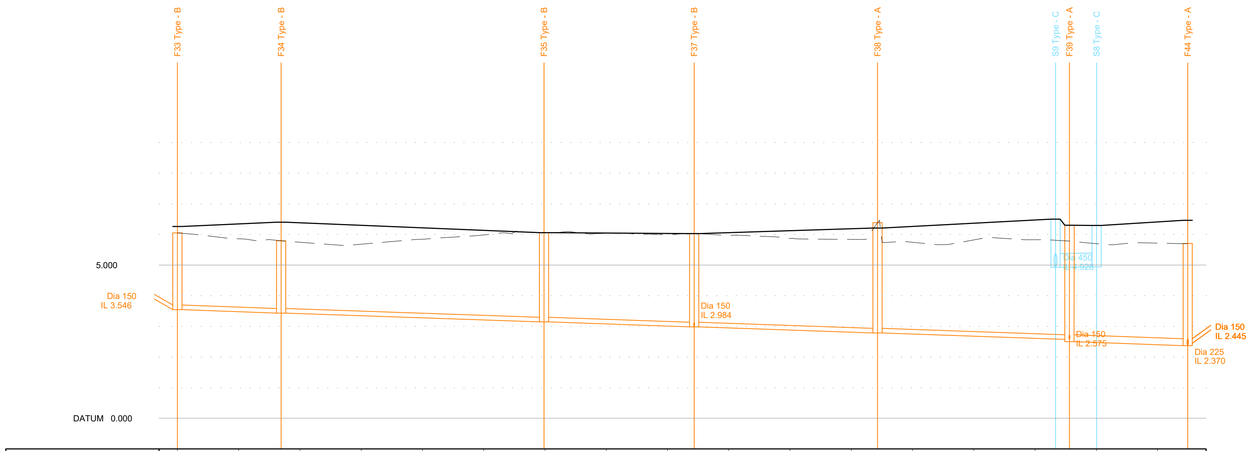
P:\10831\CAD\BCL\Working Drawings\10831-500-550D,551E,552E,553D,554E,555E,556E,557E,558D,559D,560C Adoptable Drainage Longsections.dwg

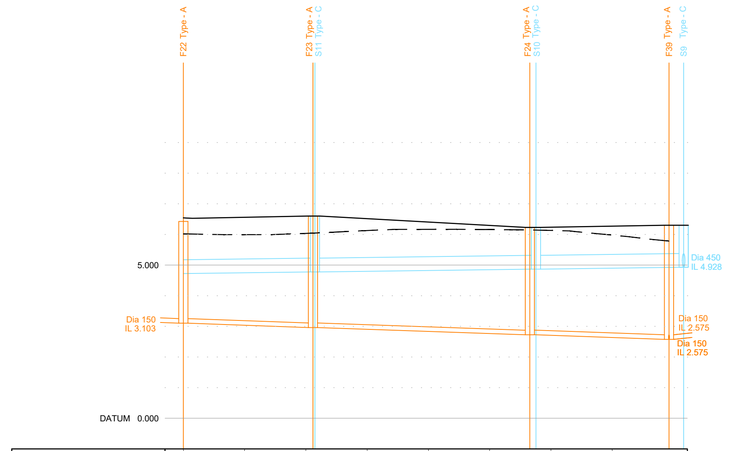
Original Drawing Size A1

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	6.051	5.858	5.746	5.682	5.843	5.984	6.057	6.036	5.988	5.975	5.871	5.839	5.744	5.822	5.828	5.699	5.716	
STORMWATER COVER LEVEL																6.410	6.357	
STORMWATER INVERT																4.928	4.943	
STORMWATER DETAILS																Pipe 2.000 Dia 450 Circular CONC 1 in 402		
STORMWATER LENGTHS																6.035		
FOULWATER COVER LEVEL	6.260		6.400				6.658		6.627		6.210				6.300		6.400	
FOULWATER INVERT	3.546	3.433	3.433				3.147	3.147	2.984	2.984	2.784	2.784			2.575	2.500	2.370	
FOULWATER DETAILS		Pipe 6.007 Dia 150 Circular CLAY 1 in 150		Pipe 6.008 Dia 150 Circular CLAY 1 in 150			Pipe 6.009 Dia 150 Circular CLAY 1 in 150		Pipe 6.010 Dia 150 Circular CLAY 1 in 150		Pipe 6.011 Dia 150 Circular CLAY 1 in 150					Pipe 1.014 Dia 225 Circular CLAY 1 in 149		
FOULWATER LENGTHS		16.931		42.909			24.514		29.928		31.325					19.311		



GROUND LEVEL	6.541	5.994	6.034	6.127	6.166	6.159	6.131	5.979
STORMWATER COVER LEVEL			6.600			6.230		6.300
STORMWATER INVERT			4.776	4.776		4.868	4.868	4.928
STORMWATER DETAILS		Pipe 2.003 Dia 450 Circular CONC 1 in 401		Pipe 2.002 Dia 450 Circular CONC 1 in 400			Pipe 2.001 Dia 450 Circular CONC 1 in 402	
STORMWATER LENGTHS		22.434		36.778			24.113	
FOULWATER COVER LEVEL	6.426		6.600			6.230		6.300
FOULWATER INVERT	3.103		2.961	2.961		2.724	2.727	2.575
FOULWATER DETAILS		Pipe 1.011 Dia 150 Circular CLAY 1 in 149		Pipe 1.012 Dia 150 Circular CLAY 1 in 149			Pipe 1.013 Dia 150 Circular CLAY 1 in 149	
FOULWATER LENGTHS		21.157		35.402			22.716	

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225Ø - 28kN/m² 450Ø - 54kN/m² 825Ø - 99kN/m²
300Ø - 36kN/m² 600Ø - 72kN/m²

D	Construction issue	MA DC	RM	18.01.23
C	Manhole type indicated, Pipe 1.014 upsized	MA DC	RM	26.07.22
B	Drainage amended to lower levels as per client request	CDW DC	RM	20.06.22
A	Cover levels updated	DC RM	RM	31.05.22
-	First issue	DC RM	RM	08.04.22

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Bellway

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Adoptable Drainage Longsections Sheet 9

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-558	D

0 10 20 30 40 50
METRES

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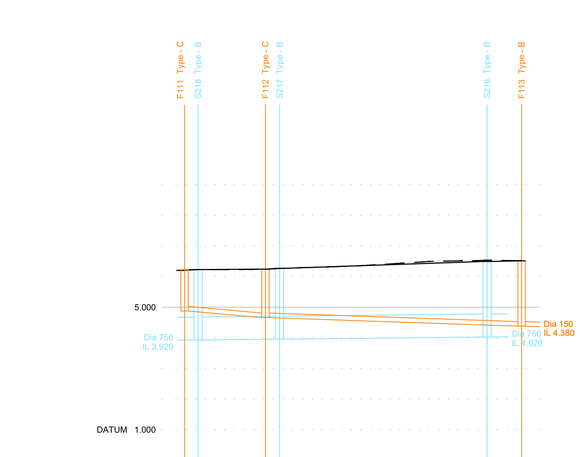
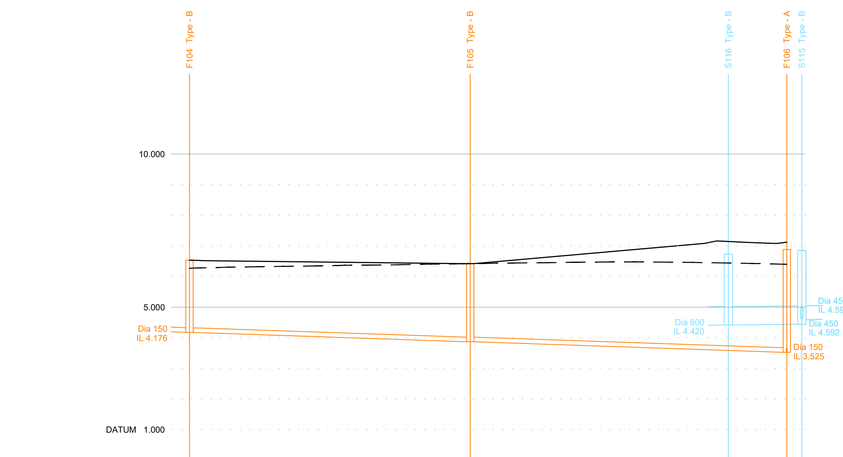
Original Drawing Size A1

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	6.206	6.230	6.291	6.358	6.484	6.534	
STORMWATER COVER LEVEL	6.227	6.266				6.402	
STORMWATER INVERT	3.929	3.955	3.955			4.026	
STORMWATER DETAILS		Pipe 1.008 Dia 750 Circular CONC 1 in 474		Pipe 1.007 Dia 750 Circular CONC 1 in 477			
STORMWATER LENGTHS		12.332		33.870			
FOULWATER COVER LEVEL	6.225	6.242				6.513	
FOULWATER INVERT	4.875	4.659	4.659			4.380	
FOULWATER DETAILS		Dia 150 Circular CLAY 1 in 61		Pipe 3.001 Dia 150 Circular CLAY 1 in 150			
FOULWATER LENGTHS		13.202		41.816			



GROUND LEVEL	6.535	6.316	6.343	6.375	6.406	6.435	6.457	6.476	6.465	7.124	
STORMWATER COVER LEVEL										6.729	6.892
STORMWATER INVERT										4.420	4.442
STORMWATER DETAILS											Pipe 1.006 Dia 600 Circular CONC 1 in 545
STORMWATER LENGTHS											11.997
FOULWATER COVER LEVEL	6.535				6.422						6.892
FOULWATER INVERT	4.176				3.870	3.870					3.525
FOULWATER DETAILS			Pipe 1.002 Dia 150 Circular CLAY 1 in 150				Pipe 1.003 Dia 150 Circular CLAY 1 in 150				
FOULWATER LENGTHS			45.828				51.681				

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300Ø - 36kN/m^2 600Ø - 72kN/m^2

D	Construction issue	MA DC RM		18.01.23
C	F111 amended	DC RM RM		18.11.22
B	Manhole type indicated	MA DC RM		26.07.22
A	Drainage amended to lower levels as per client request	CDW DC RM		20.06.22
-	First Issue	DC RM RM		31.05.22

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Bellway

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Adoptable Drainage Longsections Sheet 10

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	13.05.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-559	D

0 10 20 30 40 50
METRES

Construction Design and Management (CDM)
Key Residual Risks

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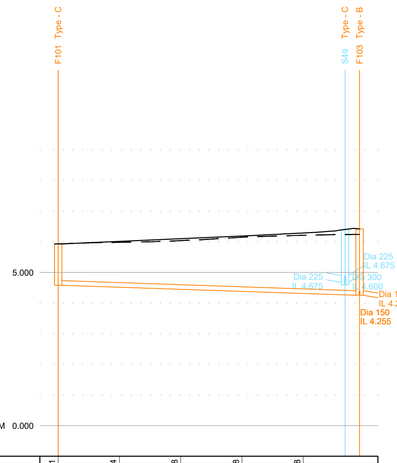
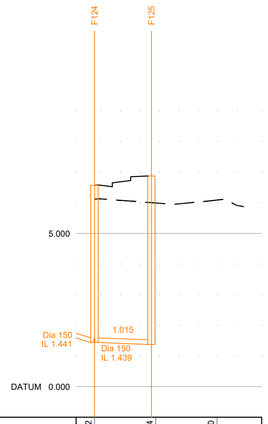
Original Drawing Size A1

KEY

- Existing ground profile
- Proposed ground profile
- Proposed surface water sewer
- Proposed foul water sewer



GROUND LEVEL	5.931	5.984	6.038	6.148	6.288	
STORMWATER COVER LEVEL						6.393
FOULWATER COVER LEVEL	5.931					6.419
FOULWATER INVERT		4.583				4.255
FOULWATER DETAILS		Pipe 1.000 Dia 150 Circular CLAY 1 in 150				
FOULWATER LENGTHS		49.184				



GROUND LEVEL	6.572	5.984	6.090
FOULWATER COVER LEVEL	6.572	6.875	
FOULWATER INVERT	1.439	1.377	
FOULWATER DETAILS		Pipe 1.015 Dia 150 Circular CLAY 1 in 150	
FOULWATER LENGTHS		9.295	

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D	F124 - F125 section added	DC	MT	RM 07.03.23
C	Construction issue	MA	DC	RM 18.01.23
B	Manhole type indicated	MA	DC	RM 26.07.22
A	Drainage amended to lower levels as per client request	CDW	DC	RM 20.06.22
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Bellway

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Adoptable Drainage Longsections Sheet 11

Status	Status Date
Construction	JUNE 2022

Drawn	Checked	Date
DC	RM	13.05.2022

Scale	Number	Rev
H 1:500 V 1:100	10831-500-560	D

0 10 20 30 40 50
METRES

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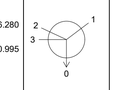
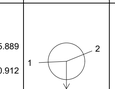
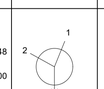
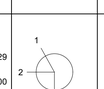
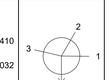
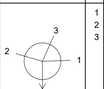
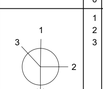
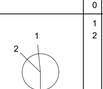
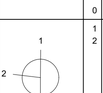
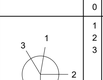
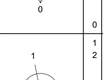
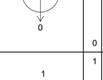
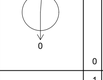
Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S1	6.280		1	Gully	5.135	150	1350	C	D400
	0.995		2	Gully	5.135	150			
E. 489453.959			3	Lateral	5.135	150			
N. 98901.796			0	1.000	4.835	450			
S2	6.517		1	1.000	4.682	450	1350	C	D400
	1.385		2	Lateral	5.497	150			
E. 489431.921									
N. 98958.862			0	1.001	4.682	450			
S3	6.227		1	1.001	4.620	450	1350	C	D400
	1.157		2	Lateral	4.920	150			
E. 489408.690									
N. 98949.891			0	1.002	4.620	450			
S4	5.966		1	1.002	4.567	450	1350	C	D400
	0.949								
E. 489387.733									
N. 98947.936			0	1.003	4.567	450			
S5	5.889		1	1.003	4.527	450	1800	C	D400
	0.912		2	Gully	4.827	150			
E. 489371.873									
N. 98950.627			0	1.004	4.227	750			
S6	5.848		1	1.004	4.198	750	1800	C	D400
	0.900		2	Lateral	4.798	150			
E. 489376.434									
N. 98971.728			0	1.005	4.198	750			
S7	5.829		1	1.005	4.179	750	1800	C	D400
	0.900		2	Lateral	4.779	150			
E. 489374.049									
N. 98985.501			0	1.006	4.179	750			
S8	6.357		1	Lateral	5.243	150	1350	C	D400
	0.964		2	Lateral	5.243	150			
E. 489583.795									
N. 98963.179			0	2.000	4.943	450			
S9	6.410		1	2.000	4.928	450	1350	C	D400
	1.032		2	Lateral	5.228	150			
E. 489587.499			3	Lateral	5.228	150			
N. 98967.944			0	2.001	4.928	450			
S10	6.230		1	2.001	4.868	450	1350	C	D400
	0.912		2	Lateral	5.168	150			
E. 489568.299									
N. 98982.531			0	2.002	4.868	450			
S11	6.600		1	2.002	4.776	450	1350	C	D400
	1.374		2	Lateral	5.076	150			
E. 489532.803			3	Lateral	5.076	150			
N. 98992.157			0	2.003	4.776	450			
S12	6.412		1	2.003	4.720	450	1350	C	D400
	1.242		2	Lateral	5.020	150			
E. 489512.018			3	Lateral	5.020	150			
N. 99000.598			0	2.004	4.720	450			
S13	6.382		1	2.004	4.615	450	1350	C	D400
	1.317		2	Lateral	4.915	150			
E. 489473.160			3	Lateral	4.915	150			
N. 99016.458			0	2.005	4.615	450			

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S14	6.679		1	Lateral	5.003	150	1350	B	D400
	1.526		2	Gully	5.003	150			
E. 489440.844									
N. 98966.351			0	3.000	4.703	450			
S15	6.750		1	3.000	4.667	450	1350	B	D400
	1.633								
E. 489450.823									
N. 98976.623			0	3.001	4.667	450			
S16	6.646		1	3.001	4.631	450	1350	B	D400
	1.565		2	Lateral	4.931	150			
E. 489458.265									
N. 98988.800			0	3.002	4.631	450			
S17	6.644		1	3.002	4.606	450	1350	B	D400
	1.588		2	Lateral	4.906	150			
E. 489462.755									
N. 98997.906			0	3.003	4.606	450			
S18	6.560		1	3.003	4.584	450	1500	B	D400
	1.526		2	2.005	4.584	450			
E. 489465.612			3	Lateral	4.884	150			
N. 99006.418			0	2.006	4.509	525			
S19	6.150		1	2.006	4.398	525	1500	C	D400
	1.227		2	Lateral	4.773	150			
E. 489418.312			3	Lateral	4.773	150			
N. 99024.355			0	2.007	4.398	525			
S20	6.200		1	2.007	4.356	525	1500	C	D400
	1.319		2	Lateral	4.731	150			
E. 489400.301									
N. 99030.774			0	2.008	4.356	525			
S21	5.759		1	1.006	4.109	750	1800	C	D400
	0.900		2	2.008	4.334	525			
E. 489391.364									
N. 99034.995			0	1.007	4.109	750			
S22	6.432		1	Lateral	5.108	150	1500	C	D400
	1.174		2	Gully	5.108	150			
E. 489580.896			3	Lateral	5.108	150			
N. 99037.852			4	Gully	5.108	150			
			0	4.000	4.733	525			
S23	6.454		1	4.000	4.593	525	1500	C	D400
	1.336		2	Lateral	5.434	150			
E. 489528.888			3	Lateral	5.434	150			
N. 99058.864			0	4.001	4.593	525			
S24	6.423		1	4.001	4.567	525	1500	C	D400
	1.331		2	Lateral	4.942	150			
E. 489518.640									
N. 99061.063			0	4.002	4.567	525			
S25	6.531		1	4.002	4.535	525	1500	C	D400
	1.471								
E. 489506.741									
N. 99066.261			0	4.003	4.535	525			
S26	6.829		1	4.003	4.471	525	1500	B	D400
	1.833		2	Lateral	4.846	150			
E. 489482.565			3	Gully	4.846	150			
N. 99074.670			4	Gully	4.846	150			
			5	Lateral	4.846	150			
			0	4.004	4.471	525			

GENERAL NOTES:

1. Do not scale from this drawing.
2. All dimensions are in metres unless otherwise stated.
3. Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
4. No part of this drawing may be copied or duplicated without the express permission of Brookbanks Consulting Ltd.
5. All Brookbanks Consulting drawings should be read in conjunction with other relevant Brookbanks Consulting drawings and any drawings produced by third parties connected with this project.
6. Any existing services shown on this drawing are not necessarily complete, nor is their location with regard to the position and depth precise. It is the contractors responsibility to liaise with all relevant services companies to ensure that all services are accurately located and adequately protected during construction. The contractors attention is drawn to the fact that it is highly likely that street lighting cables (or other private supplies) are present, which are not shown on incumbent services drawings.
7. Any discrepancies between the information displayed in this drawings and others to be reported to the engineer before the commencement of works.
8. Any damage caused to existing footways, roads or other third party property to be made good to the county engineers requirements.

ADOPTABLE DRAINAGE NOTES:

1. All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG)
2. All Sustainable Urban Drainage (SuDS) to be in accordance with CIRIA report C753 "*The SuDS Manual*" and supporting documents.
3. Contractor to check all existing invert levels and watercourse bed/water levels for outfalls on site ahead of commencing work.
4. All lateral connections to be 150mm diameter unless noted otherwise.
5. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
6. Bedding to all remaining pipework is to be class S granular bed and surround.
7. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

150Ø - 22kN/m^2 375Ø - 45kN/m^2 750Ø - 90kN/m^2
225Ø - 28kN/m^2 450Ø - 54kN/m^2 825Ø - 99kN/m^2
300Ø - 36kN/m^2 600Ø - 72kN/m^2

F	Construction issue	MA	DC	RM 18.01.23
E	S22-S26 amended. Chamber sizes amended.	NO	RM	RM 29.07.22
D	Chamber types amended	DC	RM	RM 25.07.22
C	S3, S5, S8, S9, S14, S21, S22, S23 & S25 amended	DC	RM	RM 08.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM 20.06.22
A	Cover levels amended, lateral and gully connections shown	DC	RM	RM 31.05.22
-	First Issue	DC	RM	RM 08.04.22

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Bellway

Hook Lane
Pagham

Adoptable Drainage Schedules
Sheet 1

Status	Status Date
Construction	June 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
NTS	10831-500-580	F

Construction Design and Management (CDM)
Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services
2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways and railway line
6) Unchartered services
7) Existing buildings with potential asbestos hazards

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

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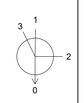
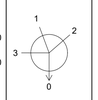
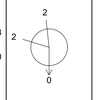
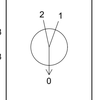
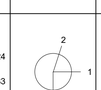
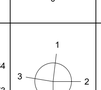
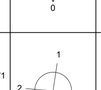
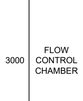
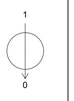
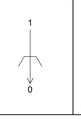
P:\10831\CAD\BCL\Working Drawings\10831-500-580F,581H,582G,583G,584H,585H,586E,587J Adoptable Drainage Schedules.dwg

Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S27	6.554		1 Lateral	4.894	150				
E. 489470.462	1.510						1350	B	D400
N. 99030.806			0 5.000	4.594	450				
S28	6.785		1 5.000	4.513	450				
			2 4.004	4.438	525				
E. 489478.087	1.822		3 Lateral	4.813	150		1500	B	D400
N. 99062.380			0 4.005	4.438	525				
S29	6.220		1 4.005	4.337	525				
			2 Lateral	4.712	150				
E. 489440.667	1.358		3 Lateral	4.712	150		1500	C	D400
N. 99077.808			0 4.006	4.337	525				
S30	5.750		1 4.006	4.275	525				
			2 Lateral	4.650	150				
E. 489417.458	0.950		3 Lateral	4.650	150		1500	C	D400
N. 99086.988			0 4.007	4.275	525				
S31	5.678		1 1.007	4.028	750				
			2 4.007	4.253	525				
E. 489410.909	0.900						1800	C	D400
N. 99092.880			0 1.008	4.028	750				
HW09			1 1.008	3.937	750				
E. 489439.629								HEADWALL	
N. 99154.731			0 Basin 1A						
S33	6.638		1 Gully	4.740	150				
			2 Gully	4.740	150				
E. 489495.164	1.748						1350	B	D400
N. 99103.803			0 6.000	4.440	450				
S34	6.506		1 6.000	4.407	450				
			2 Lateral	4.707	150				
E. 489502.652	1.649		3 Lateral	4.707	150		1350	B	D400
N. 99114.774			0 6.001	4.407	450				
S35	6.378		1 6.001	4.374	450				
			2 Lateral	4.674	150				
E. 489511.259	1.554						1350	B	D400
N. 99124.955			0 6.002	4.374	450				
S36	6.350		1 6.002	4.316	450				
			2 Lateral	4.616	150				
E. 489528.844	1.584		3 Gully	4.616	150				
N. 99140.141			4 Gully	4.616	150		1350	B	D400
			0 6.003	4.316	450				
S37	6.524		1 6.003	4.191	450				
			2 Lateral	4.491	150				
E. 489568.472	1.883						1350	B	D400
N. 99170.402			0 6.004	4.191	450				
S38	6.734		1 6.004	4.111	450				
			2 Lateral	4.411	150				
E. 489549.007	2.173		3 Lateral	4.411	150		1350	B	D400
N. 99195.891			0 6.005	4.111	450				
S39	6.771		1 6.005	4.074	450				
			2 Lateral	4.374	150				
E. 489538.619	2.247						1350	B	D400
N. 99206.616			0 6.006	4.074	450				

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S40	6.458		1 Lateral	4.360	150				
			2 Lateral	4.360	150				
E. 489527.475	1.948						1350	B	D400
N. 99235.212			0 7.000	4.060	450				
S41	6.568		1 6.006	4.019	450				
			2 7.000	4.019	450				
E. 489521.283	2.099		3 Lateral	4.319	150				
N. 99219.839			4 Lateral	4.319	150		1350	B	D400
			0 6.007	4.019	450				
HW10			1 7.001	3.937	450				
E. 489489.153								HEADWALL	
N. 99213.865			0 Basin 1A						
HW11			1 Basin 1A						
E. 489470.394								HEADWALL	
N. 99226.379			0 1.009	3.800	750				
S43	5.627		1 1.009	3.787	750				
			2 Lateral	4.387	150				
E. 489468.043	1.200						3000	FLOW CONTROL CHAMBER	D400
N. 99235.557			0 1.010	3.787	750				
S45	6.678		1 Lateral	5.262	150				
			2 Gully	5.262	150				
E. 489543.006	1.266		3 Gully	5.262	150				
N. 99256.912			4 Lateral	5.262	150		1350	C	D400
			0 8.000	5.187	225				
S46	6.657		1 8.000	5.049	225				
			2 Lateral	5.124	150				
E. 489556.856	1.383						1350	C	D400
N. 99275.256			0 8.001	5.049	225				
S47	6.552		1 8.001	4.996	225				
E. 489557.451	1.331						1350	C	D400
N. 99284.168			0 8.002	4.996	225				
S48	6.281		1 Gully	4.833	150				
			2 Lateral	4.833	150				
E. 489554.280	1.298		3 Gully	4.833	150				
N. 99312.387			4 Lateral	4.833	150		1350	C	D400
			0 9.000	4.758	225				
S49	6.393		1 8.002	4.675	225				
			2 9.000	4.675	225				
E. 489555.734	1.494						1350	C	D400
N. 99298.543			0 8.003	4.600	300				
S50	5.899		1 8.003	4.205	300				
			2 Lateral	4.355	150				
E. 489506.305	1.394						1350	C	D400
N. 99295.329			0 8.004	4.130	375				
S51	5.345		1 1.010	3.695	750				
			2 8.004	4.070	375				
E. 489489.127	0.900		3 Lateral	4.295	150				
N. 99301.065							1800	C	D400
			0 1.011	3.695	750				
HW12			1 1.011	3.638	750				
E. 489500.052								HEADWALL	
N. 99342.562			0 BASIN 1B						

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
HW13			1 BASIN 1B	3.500	750				
E. 489533.419								HEADWALL	
N. 99393.929			0 1.012						
S54	5.108		1 1.012	3.488	300				
E. 489536.179	1.395						3000	FLOW CONTROL CHAMBER	D400
N. 99404.653			0 1.013	3.488	225				
HW14			1 1.013	3.430	225				
E. 489539.246								HEADWALL	
N. 99409.922			0 OUTFALL						

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H	Construction issue	MA	DC	RM	18.01.23
G	HW14 coordinates amended	DC	RM	RM	18.08.22
F	HW14 coordinates amended	DC	RM	RM	15.08.22
E	S28-S31 amended. Chamber sizes amended	NO	RM	RM	29.07.22
D	S45 amended, chamber types amended	DC	RM	RM	25.07.22
C	S29, S30 & S31 amended	DC	RM	RM	08.07.22
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Bellway

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Adoptable Drainage Schedules Sheet 2

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-581	H

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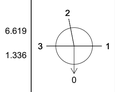
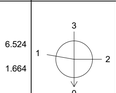
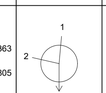
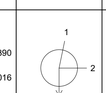
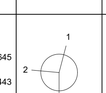
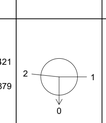
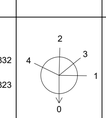
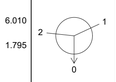
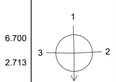
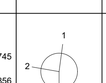
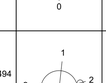
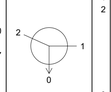
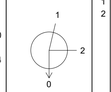
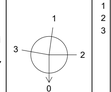
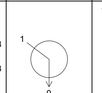
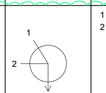
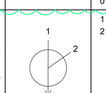
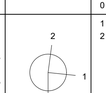
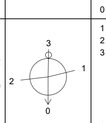
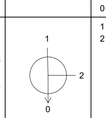
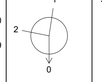
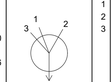
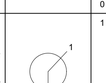
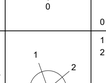
P:\10831\CAD\BCL\Working Drawings\10831-500-580F,581H,582G,583G,584H,585H,586E,587J Adoptable Drainage Schedules.dwg

Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
F1	6.619		1 **Lateral** **5.133** **150** 2 **Lateral** **5.133** **150** 3 **Lateral** **5.133** **150**						
E. 489523.760	1.336		0 1.000 5.133 150				1350	C	D400
N. 99216.298									
F2	6.789		1 1.000 4.997 150 2 Lateral 4.997 150 3 Lateral 4.997 150						
E. 489539.721	1.642		0 1.001 4.997 150				1200	B	D400
N. 99203.636									
F3	6.490		1 1.001 4.754 150 2 Lateral 4.754 150						
E. 489562.687	1.586		0 1.002 4.754 150				1200	B	D400
N. 99175.500									
F4	6.524		1 1.002 4.710 150 2 Lateral 4.710 150 3 Rising Main 4.710 150						
E. 489565.567	1.664		0 1.003 4.710 150				1200	B	D400
N. 99169.661									
F5	6.363		1 1.003 4.408 150 2 Lateral 4.408 150						
E. 489529.007	1.805		0 1.004 4.408 150				1200	B	D400
N. 99143.080									
F6	6.390		1 1.004 4.224 150 2 Lateral 4.224 150						
E. 489508.285	2.016		0 1.005 4.224 150				1200	B	D400
N. 99124.974									
F7	6.645		1 1.005 4.052 150 2 Lateral 4.052 150						
E. 489492.674	2.443		0 1.006 4.052 150				1200	B	D400
N. 99104.484									
F8	6.421		1 Lateral 4.392 150 2 Lateral 4.392 150						
E. 489521.638	1.879		0 2.000 4.392 150				1200	B	D400
N. 99061.793									
F9	6.832		1 2.000 3.859 150 2 1.006 3.859 150 3 Lateral 3.859 150 4 Lateral 3.859 150						
E. 489481.554	2.823		0 1.007 3.859 150				1200	B	D400
N. 99077.855									
F10	6.010		1 Lateral 4.065 150 2 Lateral 4.065 150						
E. 489429.842	1.795		0 3.000 4.065 150				1200	B	D400
N. 99079.784									
F11	6.700		1 3.000 3.837 150 2 Lateral 3.837 150 3 Lateral 3.837 150						
E. 489461.628	2.713		0 3.001 3.837 150				1200	B	D400
N. 99067.000									
F12	6.745		1 1.007 3.739 150 2 3.001 3.739 150						
E. 489475.104	2.856		0 1.008 3.739 150				1200	B	D400
N. 99061.131									
F13	6.494		1 1.008 3.564 150 2 BD Lateral 4.770 150 3 Lateral 3.564 150						
E. 489468.927	2.780		0 1.009 3.564 150				1200	B	D400
N. 99035.653									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
F14	6.640		1 Lateral 4.253 150 2 Lateral 4.253 150						
E. 489436.250	2.237		0 4.000 4.253 150				1200	B	D400
N. 98964.485									
F15	6.750		1 4.000 4.116 150 2 Lateral 4.116 150						
E. 489450.399	2.484		0 4.001 4.116 150				1200	B	D400
N. 98979.330									
F16	6.681		1 4.001 4.004 150 2 Lateral 4.004 150 3 Lateral 4.004 150						
E. 489458.879	2.527		0 4.002 4.004 150				1200	B	D400
N. 98993.872									
F17	6.218		1 Lateral 4.400 150						
E. 489401.129	1.668		0 5.000 4.400 150				1200	B	D400
N. 99024.194									
F18	6.212		1 5.000 4.345 150 2 Lateral 4.345 150						
E. 489409.244	1.717		0 5.001 4.345 150				1200	B	D400
N. 99025.750									
F19	6.307		1 5.001 4.037 150 2 Lateral 4.037 150						
E. 489452.364	2.120		0 5.002 4.037 150				1200	B	D400
N. 99009.262									
F20	6.558		1 5.002 3.923 150 2 4.002 3.923 150						
E. 489463.456	2.485		0 4.003 3.923 150				1200	A	D400
N. 99005.068									
F21	6.472		1 1.009 3.433 150 2 4.003 3.433 150 3 BD Lateral 4.120 150						
E. 489466.368	2.889		0 1.010 3.433 150				1200	B	D400
N. 99016.252									
F22	6.426		1 1.010 3.103 150 2 Lateral 3.103 150						
E. 489512.457	3.173		0 1.011 3.103 150				1200	A	D400
N. 98998.377									
F23	6.600		1 1.011 2.961 150 2 Lateral 2.961 150						
E. 489531.968	3.489		0 1.012 2.961 150				1200	A	D400
N. 98990.195									
F24	6.230		1 1.012 2.724 150 2 Lateral 2.724 150 3 Lateral 2.724 150						
E. 489566.264	3.356		0 1.013 2.727 150				1200	A	D400
N. 98981.415									
F25	6.657		1 Lateral 4.534 150						
E. 489604.233	1.973		0 6.000 4.534 150				1200	B	D400
N. 99129.514									
F26	6.598		1 6.000 4.497 150 2 Lateral 4.497 150						
E. 489603.688	1.951		0 6.001 4.497 150				1200	B	D400
N. 99124.052									

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H	F18 Lateral removed	DC	DC	RM 01.06.23
G	Construction issue	MA	DC	RM 18.01.23
F	Chamber sizes amended	NO	RM	RM 29.07.22
E	Chamber types amended	DC	RM	RM 25.07.22
D	F1, F12, F13 & F21 amended	DC	RM	RM 08.07.22
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-	First Issue	DC	RM	RM 08.04.22

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Hook Lane
Pagham

Adoptable Drainage Schedules Sheet 3

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-582	H

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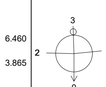
P:\10831\CAD\BCL\Working Drawings\10831-500-580F,581H,582H,583G,584H,585K,586E,587J Adoptable Drainage Schedules.dwg

Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F27	6.587		1	6.001	4.317	150	1200	B	D400
			2	Lateral	4.317	150			
E. 489592.053	2.120		0	6.002	4.317	150			
N. 99099.612									
F28	6.647		1	6.002	4.272	150	1200	B	D400
E. 489594.570	2.225		0	6.003	4.272	150			
N. 99093.368									
F29	6.730		1	6.003	4.157	150	1200	B	D400
			2	BD Lateral	4.800	150			
E. 489610.034	2.423		0	6.004	4.157	150			
N. 99085.804									
F30	6.662		1	6.004	4.090	150	1200	B	D400
			2	Lateral	4.090	150			
E. 489620.004	2.422		0	6.005	4.090	150			
N. 99084.593									
F31	6.586		1	Lateral	4.337	150	1200	B	D400
			2	Lateral	4.337	150			
E. 489667.031	2.099		0	7.000	4.337	150			
N. 99141.727									
F32	6.790		1	7.000	3.891	150	1200	B	D400
			2	6.005	3.891	150			
E. 489639.823	2.749		0	6.006	3.891	150			
N. 99106.903									
F33	6.260		1	6.006	3.546	150	1200	B	D400
			2	Lateral	3.546	150			
E. 489679.934	2.564		0	6.007	3.546	150			
N. 99075.287									
F34	6.400		1	6.007	3.433	150	1200	B	D400
			2	BD Lateral	4.900	150			
E. 489669.907	2.817		0	6.008	3.433	150			
N. 99061.644									
F35	6.058		1	6.008	3.147	150	1200	B	D400
			2	BD Lateral	3.800	150			
E. 489648.076	2.761		0	6.009	3.147	150			
N. 99024.704									
F36	6.300		1	Lateral	4.502	150	1200	B	D400
			2	Lateral	4.502	150			
E. 489626.390	1.648		0	8.000	4.502	150			
N. 99015.892									
F37	6.027		1	6.009	2.984	150	1200	B	D400
			2	8.000	2.984	150			
E. 489631.850	2.893		0	6.010	2.984	150			
N. 99006.328									
F38	6.210		1	6.010	2.784	150	1200	A	D400
			2	BD Lateral	4.200	150			
E. 489611.540	3.276		3	BD Lateral	4.200	150			
N. 98984.347			0	6.011	2.784	150			
F39	6.300		1	6.011	2.575	150	1200	A	D400
			2	1.013	2.575	150			
E. 489584.717	3.575		3	BD Lateral	4.000	150			
N. 98968.167			0	1.014	2.500	225			

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F40	6.121						1350	C	D400
E. 489444.123	1.200		0	9.000	4.771	150			
N. 98896.477									
F41	6.300		1	9.000	4.394	150	1200	B	D400
			2	Lateral	4.394	150			
E. 489496.593	1.756		0	9.001	4.394	150			
N. 98917.680									
F42	6.150		1	9.001	4.133	150	1200	B	D400
			2	Lateral	4.133	150			
E. 489533.538	1.867		0	9.002	4.133	150			
N. 98930.642									
F43	6.500		1	9.002	3.915	150	1200	B	D400
E. 489563.165	2.435		0	9.003	3.915	150			
N. 98944.548									
F44	6.460		1	1.014	2.370	225	1200	A	D400
			2	9.003	2.445	150			
E. 489572.432	3.865		3	Lateral	2.445	150			
N. 98953.268			0	1.015	2.370	225			
F45	6.400		1	1.015	2.345	225	1200	A	D400
E. 489575.781	3.830								
N. 98949.871									

GENERAL NOTES:

1. Do not scale from this drawing.
2. All dimensions are in metres unless otherwise stated.
3. Brookbanks Consulting Ltd has prepared this drawing for the sole use of the client. The drawing may not be relied upon by any other party without the express agreement of the client and Brookbanks Consulting Ltd. Where any data supplied by the client or from other sources has been used, it has been assumed that the information is correct. No responsibility can be accepted by Brookbanks Consulting Ltd for inaccuracies in the data supplied by any other party. The drawing has been produced based on the assumption that all relevant information has been supplied by those bodies from whom it was requested.
4. No part of this drawing may be copied or duplicated without the express permission of Brookbanks Consulting Ltd.
5. All Brookbanks Consulting drawings should be read in conjunction with other relevant Brookbanks Consulting drawings and any drawings produced by third parties connected with this project.
6. Any existing services shown on this drawing are not necessarily complete, nor is their location with regard to the position and depth precise. It is the contractors responsibility to liaise with all relevant services companies to ensure that all services are accurately located and adequately protected during construction. The contractors attention is drawn to the fact that it is highly likely that street lighting cables (or other private supplies) are present, which are not shown on incumbent services drawings.
7. Any discrepancies between the information displayed in this drawings and others to be reported to the engineer before the commencement of works.
8. Any damage caused to existing footways, roads or other third party property to be made good to the county engineers requirements.

ADOPTABLE DRAINAGE NOTES:

1. All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG)
2. All Sustainable Urban Drainage (SuDS) to be in accordance with CIRIA report C753 "*The SuDS Manual*" and supporting documents.
3. Contractor to check all existing invert levels and watercourse bed/water levels for outfalls on site ahead of commencing work.
4. All lateral connections to be 150mm diameter unless noted otherwise.
5. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
6. Bedding to all remaining pipework is to be class S granular bed and surround.
7. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

150Ø - 22kN/m^2 375Ø - 45kN/m^2 750Ø - 90kN/m^2
225Ø - 28kN/m^2 450Ø - 54kN/m^2 825Ø - 99kN/m^2
300Ø - 36kN/m^2 600Ø - 72kN/m^2

G	Construction issue	MA	DC	RM	18.01.23
F	Chamber sizes amended. F39, F44 & F45 amended.	NO	RM	RM	29.07.22
E	F44 amended, chamber types amended	DC	RM	RM	25.07.22
D	F29, F34, F35, F38 & F39 amended	DC	RM	RM	08.07.22
C	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
B	Cover levels amended, lateral and gully connections shown	DC	RM	RM	31.05.22
A	Various cover levels amended	DC	RM	RM	13.05.22
-	First Issue	DC	RM	RM	08.04.22

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Bellway

Hook Lane
Pagham

Adoptable Drainage Schedules Sheet 4

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-583	G

Construction Design and Management (CDM)
Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services
2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways and railway line
6) Unchartered services
7) Existing buildings with potential asbestos hazards

UNTIL TECHNICAL APPROVAL HAS BEEN OBTAINED FROM THE RELEVANT LOCAL AUTHORITIES, IT SHOULD BE UNDERSTOOD THAT ALL DRAWINGS ARE ISSUED AS PRELIMINARY AND NOT FOR CONSTRUCTION. SHOULD THE CONTRACTOR COMMENCE SITE WORK PRIOR TO APPROVAL BEING GIVEN, IT IS ENTIRELY AT HIS OWN RISK.

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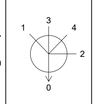
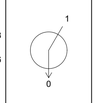
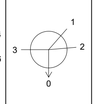
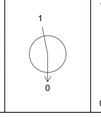
Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S101	6.355		1 Lateral	5.305	150				
	0.900		2 Gully	5.305	150				
			3 Lateral	5.305	150				
			4 Gully	5.305	150				
			5 Lateral	5.305	150		1350	C	D400
E. 489672.157			0	1.000	5.005	450			
N. 99083.734									
S102	6.694		1	1.000	4.921	450			
	1.323		2 Lateral	5.221	150				
			3 Lateral	5.221	150				
							1350	C	D400
E. 489645.705			0	1.001	4.921	450			
N. 99104.393									
S103	6.642		1 Lateral	5.271	150				
	1.221						1350	C	D400
E. 489621.708			0	2.000	4.971	450			
N. 99088.148									
S104	6.820		1	2.000	4.900	450			
	1.470		2	1.001	4.900	450			
							1350	C	D400
E. 489639.571			0	1.002	4.900	450			
N. 99110.375									
S105	6.549		1	1.002	4.787	450			
	1.312		2 Lateral	5.087	150				
							1350	C	D400
E. 489667.337			0	1.003	4.787	450			
N. 99146.180									
S106	6.500		1	1.003	4.680	450			
	1.370		2 Lateral	4.980	150				
							1350	C	D400
E. 489637.843			0	1.004	4.680	450			
N. 99176.919									
S107	6.980		1	1.004	4.611	450			
	1.919						1350	B	D400
E. 489620.809			0	1.005	4.611	450			
N. 99198.387									
S108									
REMOVED									
S109									
REMOVED									
S110	6.597		1 Gully	5.237	150				
	1.210		2 Lateral	5.237	150				
			3 Lateral	5.237	150				
			4 Gully	5.237	150				
							1350	C	D400
E. 489593.789			0	3.000	4.937	450			
N. 99100.722									
S111	6.598		1	3.000	4.872	450			
	1.276						1350	C	D400
E. 489605.920			0	3.001	4.872	450			
N. 99123.525									
S112	6.684		1	3.001	4.848	450			
	1.386		2 Lateral	5.148	150				
			3 Lateral	5.148	150				
							1350	C	D400
E. 489605.543			0	3.002	4.848	450			
N. 99132.960									
S113	6.580		1	3.002	4.765	450			
	1.365						1350	C	D400
E. 489582.892			0	3.003	4.765	450			
N. 99156.992									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S114	6.370		1 3.003	4.720	450				
	1.276		2 Lateral	5.020	150				
							1350	C	D400
E. 489573.327			0	3.004	4.720	450			
N. 99172.413									
S115	6.852		1	3.004	4.592	450			
	1.810		2	1.005	4.592	450			
			3 Lateral	4.892	150				
			4 Gully	4.892	150				
							1500	B	D400
E. 489614.627			0	1.006	4.442	600			
N. 99202.502									
S116	6.729		1	1.006	4.420	600			
	1.709		2 Lateral	4.870	150				
							1500	B	D400
E. 489607.805			0	1.007	4.420	600			
N. 99212.370									
HW15			1	1.007	4.371	600			
								HEADWALL	D400
E. 489612.426			0	BASIN 2					
N. 99238.737									
HW16			1	BASIN 2	4.230	600			
								HEADWALL	D400
E. 489581.904			0	1.008					
N. 99295.932									
S118	6.313		1	1.008	4.220	600			
	1.493						3000	FLOW CONTROL CHAMBER	D400
E. 489580.718			0	1.009	4.220	600			
N. 99303.453									
HW08			1	1.009	4.037	600			
								HEADWALL	
E. 489583.859			0	OUTFALL					
N. 99368.458									

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225Ø - 28kN/m^2 450Ø - 54kN/m^2 825Ø - 99kN/m^2
300Ø - 36kN/m^2 600Ø - 72kN/m^2

H	Construction issue	MA	DC	RM 18.01.23
G	HW08 amended	DC	RM	RM 03.11.22
F	S108-S115 amended. Chamber sizes amended	NO	RM	RM 29.07.22
E	S118 amended, chamber types amended	DC	RM	RM 25.07.22
D	S101, S106, S107 & HW16 amended	DC	RM	RM 08.07.22
C	Drainage amended to lower levels as per client request	CDW	DC	RM 20.06.22
B	Cover levels amended, lateral and gully connections shown	DC	RM	RM 31.05.22
A	S101 & S102 amended S106 & S107 cover levels amended	DC	RM	RM 13.05.22
-	First issue	DC	RM	RM 08.04.22

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Bellway

Hook Lane
Pagham

Adoptable Drainage Schedules Sheet 5

Status	Status Date
Construction	June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-584	H

Construction Design and Management (CDM)
Key Residual Risks

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Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F101	5.931		1	Lateral	4.583	150	1200	C	D400
			2	Lateral	4.583	150			
	1.198								
E. 489509.091									
N. 99294.266			0	1.000	4.583	150			
F102	6.290		1	Lateral	4.341	150	1200	B	D400
			2	Lateral	4.341	150			
	1.799								
E. 489555.966									
N. 99310.247			0	2.000	4.341	150			
F103	6.419		1	2.000	4.255	150	1200	B	D400
			2	1.000	4.255	150			
	2.014								
E. 489558.166									
N. 99297.538			0	1.001	4.255	150			
F104	6.535		1	1.001	4.176	150	1200	B	D400
			2	Lateral	4.176	150			
	2.209								
E. 489559.306									
N. 99285.810			0	1.002	4.176	150			
F105	6.422		1	1.002	3.870	150	1200	B	D400
			2	Lateral	3.870	150			
	2.402								
E. 489584.846									
N. 99247.758			0	1.003	3.870	150			
F106	6.882		1	1.003	3.525	150	1200	A	D400
			2	Lateral	3.525	150			
	3.207		3	Lateral	3.525	150			
E. 489614.939									
N. 99205.742			0	1.004	3.525	150			
F107	6.705		1	1.004	2.926	150	1200	A	D400
			2	Lateral	2.926	150			
	3.629								
E. 489687.989									
N. 99258.170			0	1.005	2.926	150			
F108	6.712		1	1.005	2.767	150	1200	A	D400
	3.795								
E. 489706.318									
N. 99273.484			0	1.006	2.767	150			
F109	6.542		1	1.006	2.660	150	1200	A	D400
			2	Lateral	2.660	150			
	3.732								
E. 489713.996									
N. 99287.545			0	1.007	2.660	150			
F110	6.369		1	1.007	2.537	150	1200	A	D400
			2	BD Lateral	3.837	150			
	3.682								
E. 489717.174									
N. 99305.663			0	1.008	2.537	150			
F111	6.225		1	Lateral	4.875	150	1200	C	D400
	1.200								
E. 489647.092									
N. 99388.764			0	3.000	4.875	150			
F112	6.242		1	3.000	4.659	150	1200	C	D400
	1.433								
E. 489651.345									
N. 99376.265			0	3.001	4.659	150			
F113	6.513		1	3.001	4.380	150	1200	B	D400
			2	Lateral	4.380	150			
	1.983								
E. 489685.249									
N. 99351.789			0	3.002	4.380	150			

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
F114	6.529		1	3.002	4.199	150	1200	B	D400
			2	Lateral	4.199	150			
	2.180								
E. 489705.251									
N. 99333.459			0	3.003	4.199	150			
F115	6.420		1	3.003	2.405	150	1200	A	D400
			2	1.008	2.405	150			
	3.865								
E. 489711.479									
N. 99324.574			0	1.009	2.405	150			
F116	6.425		1	1.009	2.244	150	1200	A	D400
			2	BD Lateral	3.544	150			
	4.031								
E. 489734.606									
N. 99331.354			0	1.010	2.244	150			
F117	6.470		1	Lateral	4.888	150	1200	C	D400
			2	Lateral	4.888	150			
	1.432								
E. 489806.492									
N. 99323.760			0	4.000	4.888	150			
F118	6.723		1	4.000	4.751	150	1200	B	D400
			2	Lateral	4.751	150			
	1.822								
E. 489786.923									
N. 99329.901			0	4.001	4.751	150			
F119	6.653		1	1.010	2.090	150	1200	A	D400
			2	4.001	2.090	150			
	4.413		3	BD Lateral	3.390	150			
E. 489757.513									
N. 99333.287			0	1.011	2.090	150			
F120	6.921		1	1.011	1.914	150	1200	A	D400
			2	BD Lateral	3.214	150			
	4.857								
E. 489757.484									
N. 99359.841			0	1.012	1.914	150			
F121	7.058		1	1.012	1.766	150	1200	A	D400
			2	BD Lateral	3.066	150			
	5.142		3	BD Lateral	3.066	150			
E. 489755.988									
N. 99382.062			0	1.013	1.766	150			
F122	6.802		1	1.013	1.590	150	1200	A	D400
			2	BD Lateral	2.890	150			
	5.062		3	BD Lateral	3.240	150			
E. 489747.824									
N. 99407.112			0	1.014	1.590	150			
F123	5.997		1	Lateral	4.294	150	1200	B	D400
	1.553								
E. 489723.279									
N. 99438.010			0	5.000	4.294	150			
F124	6.572		1	5.000	1.439	150	1200	A	D400
			2	1.014	1.439	150			
	4.983								
E. 489735.673									
N. 99425.832			0	1.015	1.439	150			
F125	6.875		1	1.015	1.377	150	1200	A	D400
	5.348								
E. 489743.120									
N. 99431.395									

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ADOPTABLE DRAINAGE NOTES:

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4. All lateral connections to be 150mm diameter unless noted otherwise.
5. Sewers with less than 1.2m cover beneath highways and 0.9m cover elsewhere to have special concrete cover slab protection in accordance with the adopting authority's requirements. Flexibility of pipeline to be maintained.
6. Bedding to all remaining pipework is to be class S granular bed and surround.
7. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

150Ø - 22kN/m² 225Ø - 28kN/m² 300Ø - 36kN/m² 375Ø - 45kN/m² 450Ø - 54kN/m² 600Ø - 72kN/m² 750Ø - 90kN/m² 825Ø - 99kN/m²

K	F122 lateral added for Vistry service yard	DC	MT	RM	24.03.23
J	F125 IL and CL amended	DC	MT	RM	07.03.23
H	Construction issue	MA	DC	RM	18.01.23
G	F111 amended	DC	RM	RM	21.11.22
F	Chamber sizes amended	NO	RM	RM	29.07.22
E	F110, F112,F121,F122 & F124 amended, chamber types amended	DC	RM	RM	25.07.22
D	F117 amended	DC	RM	RM	08.07.22
C	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
B	Cover levels amended, lateral and gully connections shown	DC	RM	RM	31.05.22
A	F101 & F105 cover levels amended	DC	RM	RM	13.05.22
-	First Issue	DC	RM	RM	08.04.22

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Bellway

Hook Lane
Pagham

Adoptable Drainage Schedules Sheet 6

Status	Status Date
Construction	June 2022

Drawn	Checked	Date
DC	RM	08.04.2022

Scale	Number	Rev
NTS	10831-500-585	K

Construction Design and Management (CDM)
Key Residual Risks

Contractors entering the site should gain permission from the relevant land owners and/or principle contractor working on site at the time of entry. Contractors shall be responsible for carrying out their own risk assessments and for liaising with the relevant services companies and authorities. Listed below are Site Specific key risks associated with the project.

1) Overhead and underground services
2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways and railway line
6) Unchartered services
7) Existing buildings with potential asbestos hazards

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P:\10831\CAD\BCL\Working Drawings\10831-500-580F,581H,582G,583G,584H,585K,586E,587J Adoptable Drainage Schedules.dwg

Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S201	7.129		1 Gully	5.168	150				
			2 Gully	5.168	150				
	1.811						1200	B	D400
E. 489645.827			0	1.000	5.018	300			
N. 99225.166									
S202	6.565		1 Lateral	5.487	150				
			2 Lateral	5.487	150				
	0.928						1350	C	D400
E. 489731.896			0	2.000	5.412	225			
N. 99209.796									
S203	6.430		1 Lateral	5.310	150				
	0.970						1350	C	D400
E. 489699.736			0	3.000	5.235	225			
N. 99200.487									
S204	6.501		1	3.000	5.090	225			
			2	2.000	5.090	225			
	1.186						1500	C	D400
E. 489716.612			0	2.001	4.790	525			
N. 99218.053									
S205	6.460		1	2.001	4.652	525			
			2 Lateral	5.027	150				
	1.283						1500	C	D400
E. 489695.454			0	2.002	4.652	525			
N. 99244.830									
S206	6.669		1	1.000	4.803	300			
			2	2.002	4.578	525			
	1.566		3 Lateral	4.953	150		1500	B	D400
E. 489687.454			0	1.001	4.503	600			
N. 99255.517									
S207	6.724		1	1.001	4.431	600			
	1.693						1500	B	D400
E. 489705.775			0	1.002	4.431	600			
N. 99269.608									
S208	6.499		1	1.002	4.357	600			
			2 Lateral	4.807	150				
	1.542						1500	B	D400
E. 489717.125			0	1.003	4.357	600			
N. 99290.543									
S209	6.406		1	1.003	4.309	600			
			2 Lateral	4.759	150				
	1.497						1500	C	D400
E. 489718.552			0	1.004	4.309	600			
N. 99309.682									
S210	6.503		1 Gully	5.383	150				
			2 Gully	5.383	150				
	1.006		3 Lateral	5.383	150		1350	C	D400
E. 489803.176			0	4.000	5.197	300			
N. 99321.958									
S211	6.760		1	4.000	5.116	300			
			2 Lateral	5.266	150				
	1.344		3 Lateral	5.266	150		1350	C	D400
E. 489784.671			0	4.001	5.116	300			
N. 99328.121									
S212	6.646		1	4.001	4.993	300			
	1.353						1350	C	D400
E. 489755.371			0	4.002	4.993	300			
N. 99330.847									
S213	6.422		1	4.002	4.900	300			
			2 Lateral	5.050	150				
	1.222						1350	C	D400
E. 489733.238			0	4.003	4.750	450			
N. 99328.702									

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit		Code	Inverts	Diams			Manhole	Cover
S214	6.390		1	1.004	4.274	600			
			2	4.003	4.424	450			
	1.516						1800	B	D400
E. 489714.411			0	1.005	4.124	750			
N. 99323.155									
S215	6.542		1	1.005	4.090	750			
			2 Lateral	4.690	150				
	1.702						1800	B	D400
E. 489705.219			0	1.006	4.090	750			
N. 99336.550									
S216	6.492		1	1.006	4.026	750			
			2 Lateral	4.626	150				
	1.716						1800	B	D400
E. 489681.732			0	1.007	4.026	750			
N. 99356.570									
S217	6.266		1	1.007	3.955	750			
			2 Lateral	4.555	150				
	1.561						1800	B	D400
E. 489653.888			0	1.008	3.955	750			
N. 99375.854									
S218	6.227		1	1.008	3.929	750			
	1.548						1800	B	D400
E. 489648.780			0	1.009	3.929	750			
N. 99387.078									
S219	6.111		1	1.009	3.899	750			
			2 Lateral	4.499	150				
	1.462						1800	C	D400
E. 489648.727			0	1.010	3.899	750			
N. 99401.422									
S220	5.780		1	1.010	3.810	750			
			2 Lateral	4.410	150				
	1.220						1800	C	D400
E. 489670.676			0	1.011	3.810	750			
N. 99438.236									
S221	6.873		1 Lateral	5.559	150				
			2 Gully	5.559	150				
	1.164		3 Gully	5.559	150		1350	C	D400
E. 489758.687			0	5.000	5.484	225			
N. 99357.044									
S222	7.056		1	5.000	5.366	225			
			2 Lateral	5.441	150				
	1.465						1350	C	D400
E. 489758.006			0	5.001	5.291	300			
N. 99376.722									
S223	6.941		1	5.001	5.191	300			
			2 Lateral	5.341	150				
	1.450		3 Lateral	5.341	150		1350	C	D400
E. 489754.587			0	5.002	5.116	375			
N. 99393.033									
S224	6.771		1	5.002	5.044	375			
			2 Lateral	5.269	150				
	1.352						1350	C	D400
E. 489748.181			0	5.003	4.969	450			
N. 99409.091									
S225	6.671		1	5.003	4.627	450			
			2 Lateral	4.927	150				
	1.594						1350	B	D400
E. 489743.147			0	5.004	4.627	450			
N. 99417.898									
S226	6.545		1	5.004	4.571	450			
	1.524						1350	B	D400
E. 489735.639			0	5.005	4.571	450			
N. 99428.051									

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225Ø - 28kN/m^2 450Ø - 54kN/m^2 825Ø - 99kN/m^2
300Ø - 36kN/m^2 600Ø - 72kN/m^2

E	Construction issue	MA	DC	RM 18.01.23
D	S225&226 amended. Chamber sizes amended	NO	RM	RM 29.07.22
C	S202, S203, S204, S216, S221 & S225 amended, chamber types amended	DC	RM	RM 25.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM 20.06.22
A	Cover levels amended, lateral and gully connections shown	DC	RM	RM 31.05.22
-	First Issue	DC	RM	RM 08.04.22

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Bellway

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Adoptable Drainage Schedules Sheet 7

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-586	E

Construction Design and Management (CDM)
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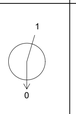
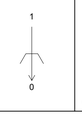
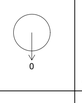
Original Drawing Size A1

Manhole Number	Cover Level	Connections	Pipe				Manhole Size	Types	
Coordinates	Depth To Soffit			Code	Inverts	Diams		Manhole	Cover
S227	5.926		1	5.005	4.426	450			
			2	Lateral	4.726	150			
	1.050						1200	C	D400
E. 489719.284			0	5.006	4.426	450			
N. 99442.844									
S228	5.469		1	5.006	4.097	450			
			2	Lateral	4.397	150			
	0.922						1350	C	D400
E. 489688.021			0	5.007	4.097	450			
N. 99463.765									
S229	5.396		1	1.011	3.746	750			
			2	5.007	4.056	450			
	0.900						1800	C	D400
E. 489675.289			0	1.012	3.671	825			
N. 99467.243									
S230	5.314		1	1.012	3.589	825			
	0.900						1800	C	D400
E. 489632.639			0	1.013	3.589	825			
N. 99482.494									
HW17			1	1.013	3.575	825			
								HEADWALL	
E. 489625.276			0	BASIN 3					
N. 99481.022									
HW18			1	BASIN 3					
								HEADWALL	
E. 489560.033			0	1.014	3.440	825			
N. 99445.935									
S232	4.740		1	1.014	3.425	825			
	1.015						3000	FLOW CONTROL CHAMBER	D400
E. 489553.199			0	1.015	3.425	300			
N. 99441.901									
HW19			1	1.015	3.330	300			
								HEADWALL	
E. 489548.158			0	OUTFALL					
N. 99436.807									

S300	5.775								
	1.200						1350	C	D400
E. 489354.859			0	1.000	4.425	150			
N. 98948.686									
S301	6.240		1	1.000	4.200	150			
	1.890						1200	B	D400
E. 489366.232									
N. 98979.761									

HW01			1	CULVERT 1	4.933	600			
								HEADWALL	
E. 489722.153			0	DITCH					
N. 99146.052									
HW02			1	DITCH					
E. 489716.169			0	CULVERT 1	4.944	600		HEADWALL	
N. 99145.590									
HW03			1	DITCH	5.116	600			
E. 489639.218			0	CULVERT 2				HEADWALL	
N. 99211.847									
HW04			1	CULVERT 2					
E. 489635.869			0	DITCH	5.085	600		HEADWALL	
N. 99227.135									
HW05			1	DITCH	4.867	600			
E. 489684.073			0	CULVERT 3				HEADWALL	
N. 99316.070									
HW06			1	CULVERT 3					
E. 489683.225			0	DITCH	4.858	600		HEADWALL	
N. 99321.188									
HW07			1	DITCH	3.702	600			
E. 489593.236			0	CULVERT 4				HEADWALL	
N. 99365.958									
HW08			1	CULVERT 4					
E. 489585.944			0	DITCH	3.687	600		HEADWALL	
N. 99368.860									

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7. Pipes up to 300mm diameter shall be either vitrified clay or plastic. Pipes greater than 300mm diameter shall be precast concrete or plastic, excluding those crossing beneath watercourses. All pipes to be in accordance with the adopting authority's approved manufacturers. All pipes to be to BS EN 1295 with either sleeved of spigot & socket flexible joints, and shall satisfy the minimum crushing strengths stated below:

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300Ø - 36kN/m² 600Ø - 72kN/m²

J	Construction issue	MA	DC	RM	18.01.23
H	HW03,HW04 & HW08 coordinates amended	DC	RM	RM	09.12.22
G	HW19 coordinates amended, HW01 - HW08 amended	DC	RM	RM	18.11.22
F	HW19 coordinates amended	DC	RM	RM	15.08.22
E	S227 amended. Chamber sizes amended.	NO	RM	RM	29.07.22
D	S301 chamber type amended	DC	RM	RM	25.07.22
C	S300, S301 & Swale headwalls added	DC	RM	RM	04.07.22
B	Drainage amended to lower levels as per client request	CDW	DC	RM	20.06.22
A	Cover levels amended, lateral and gully connections shown	DC	RM	RM	31.05.22
-	First Issue	DC	RM	RM	08.04.22

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Adoptable Drainage Schedules Sheet 8

Status		Status Date
Construction		June 2022
Drawn	**Checked**	**Date**
DC	RM	08.04.2022
Scale	**Number**	**Rev**
NTS	10831-500-587	J

Construction Design and Management (CDM)
Key Residual Risks

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2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways and railway line
6) Unchartered services
7) Existing buildings with potential asbestos hazards

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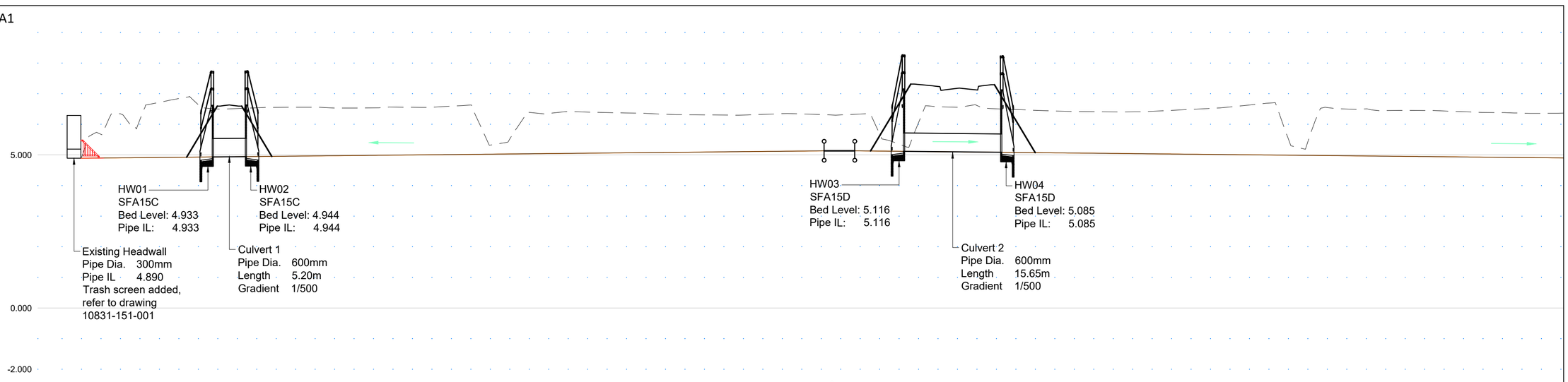
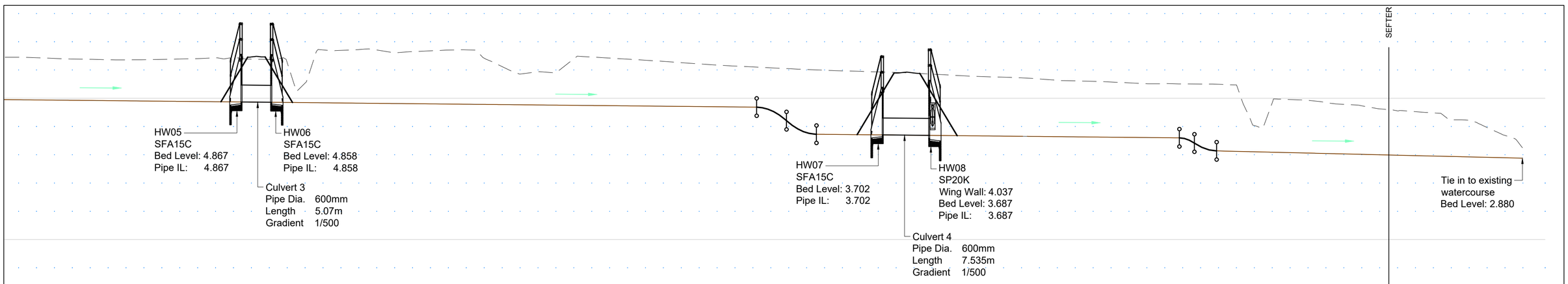
P:\10831\CAD\BCL\Working Drawings\10831-500-580F,581H,582G,583G,584H,585H,586E,587J Adoptable Drainage Schedules.dwg

Original Drawing Size A1



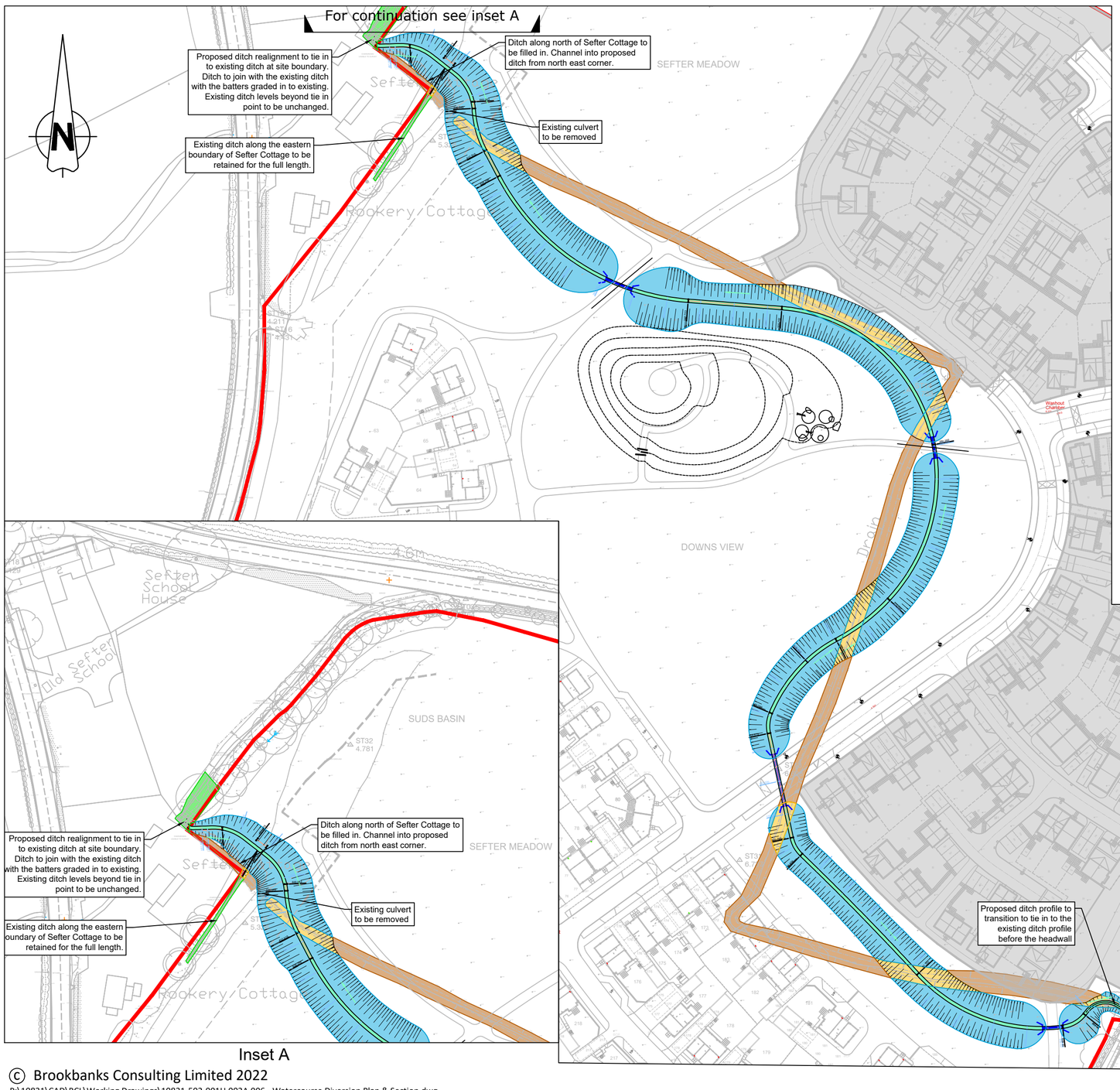
WATER

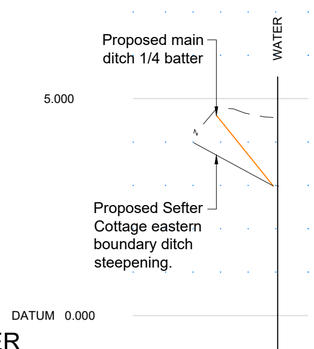
CHAINAGE	0.000	2.535	10.000	12.852	20.000	21.312	30.000	40.000	50.000	60.000	69.056	70.000	80.000	90.000	100.000	110.000	118.761	120.000	121.213	HP 123.743	124.000	124.669	126.213	130.000	140.000	150.000	156.522	160.000	162.692	170.000	180.000	181.606	190.000	192.474	200.000	210.000	212.367	220.000	230.000	240.000
EXISTING GROUND LEVEL	6.340		6.303		6.534		6.548	6.544	6.558	6.583	5.540	6.412	6.367	6.310	6.315	6.322							5.802	6.571	6.500	6.428	6.404	6.475	6.618	5.368	6.494	6.448	6.384	6.361							
PROPOSED DITCH BED LEV	4.890		4.910		4.930		4.950	4.970	4.990	5.010	5.030	5.050	5.070	5.090	5.110	5.130	5.132	5.135	5.134				5.132	5.125	5.105	5.085	5.065	5.045	5.025	5.005	4.985	4.965	4.945	4.925	4.905						
HORIZONTAL ALIGNMENT			R= 7.000		R= 10.000		R= 50.000				R= 800.000					R= 10.000											R= 10.000		R= 46.485		R= 39.799		R= 60.000			R= 53.383					
VERTICAL ALIGNMENT			G= 0.200% 1: 500.0													L= 5.000 KF= -12.50																									G= -0.200% 1: -500.0



CHAINAGE	220.000	230.000	240.000	250.000	260.000	262.198	270.000	280.000	290.000	300.000	310.000	320.000	327.665	330.000	340.000	350.000	350.007	355.656	360.000	360.616	370.000	380.000	390.000	400.000	410.000	420.000	426.000	427.632	430.000	431.582	434.819	440.000	447.483	450.000	460.000	462.112	468.737	470.000	479.127	480.000	485.791
EXISTING GROUND LEVEL	6.448	6.384	6.361	6.398	6.385		5.536	6.732	6.661	6.702	5.834	6.469	6.349	6.215	6.104		6.008			5.942	5.866	5.767	5.685	5.597	5.509		5.502				4.058	4.879	4.636		4.479	3.921	3.248			
PROPOSED DITCH BED LEV	4.945	4.925	4.905	4.885	4.865		4.845	4.825	4.805	4.785	4.765	4.745	4.725	4.705	4.685	4.685	4.259	4.205	3.733	3.726	3.707	3.687	3.667	3.647	3.627	3.607	3.597	3.413	3.185	3.137	3.097	3.049	3.002		2.955	2.907	2.880			
HORIZONTAL ALIGNMENT	R= 53.383						R= 50.000													R= 70.000										R= 30.000		R= 15.000			R= 15.000					
VERTICAL ALIGNMENT	G= -0.200% 1: -500.0															L= 5.305 KF= -0.30		KF= 0.30 L= 5.305		G= -0.200% 1: -500.0							L= 2.675 KF= -0.20		KF= 0.30 L= 3.930		G= -0.474% 1: -211.2									

LONGITUDINAL SECTIONS
H 1:500 V 1:100





SEFTER

CHAINAGE	0.000	9.159
EXISTING GROUND LEVEL	4.198	4.566
PROPOSED DITCH BED LEV	3.980	2.986
HORIZONTAL ALIGNMENT		
VERTICAL ALIGNMENT		G= -10.851% 1: -9.2

NOTES:

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5. Details & locations of existing sewers are based on the topographical survey and utility recordings and should be considered indicative and approximate only. All sewers must be accurately located by the contractor prior to commencement of works.
6. Existing watercourse to be abandoned to be backfilled using Class 4 material and method compaction to SHW cl 612.
7. Local CBR testing to be carried out where the proposed road crosses the filled ditch upon completion of backfilling to determine local capping requirement.

H	Vistry layout updated	MA	DC	RM	02.03.23
G	Construction issue	MA	DC	RM	18.01.23
F	HW08 moved	DC	RM	RM	09.12.22
E	Ditch & Sefter Cottage ditch amended	DC	RM	RM	21.11.22
D	Culverts shown on section, ditch levels amended	DC	RM	RM	31.10.22
C	Extend of proposed and exist ditches highlighted	MA	DC	RM	12.08.22
B	Cross section chainages added	DC	DC	RM	15.07.22
A	Culvert & presentation amendments	DC	DC	RM	04.07.22
-	This drawing is amended from drawing 10641-DR-0003 - Watercourse Diversion Plan & Section	CDW	DC	RM	20.06.22

KEY:

- Site Boundary
- New watercourse
- Exisiting watercourse to be abandoned
- Existing watercourse reprofiled
- Exisiting watercourse retained

Proposed ditch profile to transition to tie in to the existing ditch profile before the headwall

Existing culvert continues along Hook Lane

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Watercourse Diversion
Plan & Section

Construction		JUN 2022
CDW	DC	20.06.22
1:1000	10831-502-001	H

0 20 40 60 80 100
METRES

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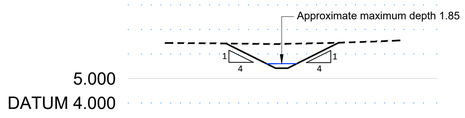
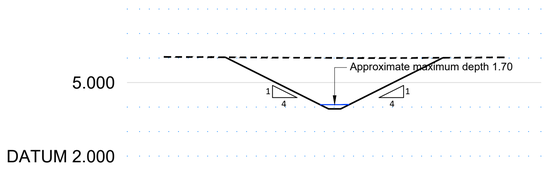
P:\10831\CAD\BCL\Working Drawings\10831-502-001H,002A,006 - Watercourse Diversion Plan & Section.dwg

Original Drawing Size A1



OFFSET			4.524		0.500 0.000		0.500	4.661			
GROUND LEVEL	6.445		6.422		6.402			6.457		6.549	
FEATURE LEVEL			6.422		5.416 3.926		5.416	6.457			



OFFSET			8.926		0.500 0.000		0.500	8.839			
GROUND LEVEL	6.047		6.032		6.006			6.011		6.027	
FEATURE LEVEL			6.032		3.926		3.926	6.011			

Construction Design and Management (CDM)
Key Residual Risks

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P:\10831\CAD\BCL\Working Drawings\10831-502-001B,002 - Watercourse Diversion Plan & Section.dwg

-	First Issue	DC RM	RM 15.07.22

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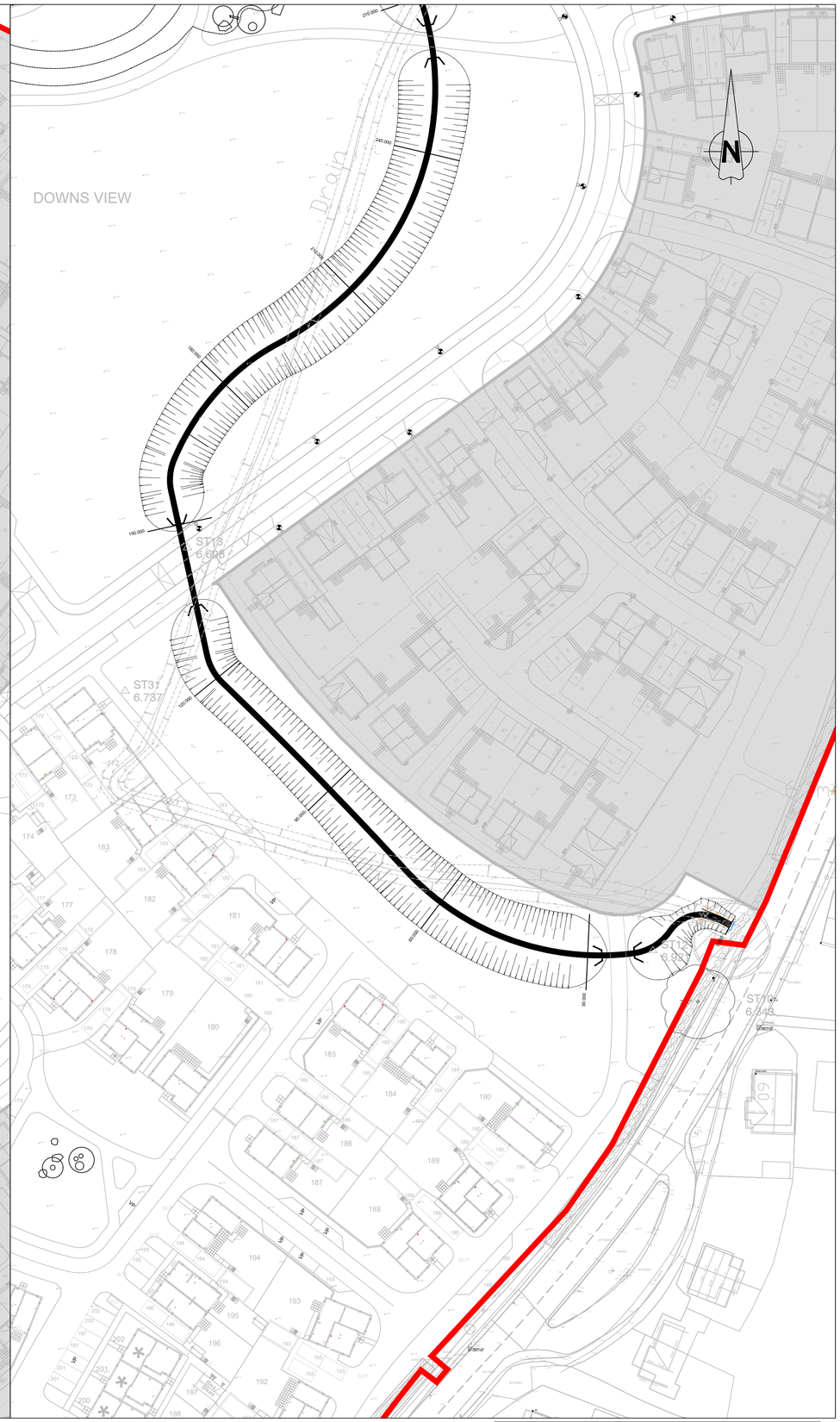
Watercourse Diversion
Typical Cross Sections

Status		Status Date
Construction		Jul 2022
Drawn	**Checked**	**Date**
DC	RM	15.07.2022
Scale	**Number**	**Rev**
H:1:250 V:1:125	10831-502-002	-

0 5 10 15 20 25
METRES

Original Drawing Size A1



Construction Design and Management (CDM)
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KEY:

Site Boundary

C	Vistry layout updated	MA	DC	RM 02.03.23
B	Construction issue	MA	DC	RM 18.01.23
A	Cross Sections updated	DC	DC	RM 13.12.22
-	First Issue	CL	DC	DC 10.08.22

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Watercourse Diversion
Cross Section - Plan

Construction		Aug 2022
CL	DC	10.08.22
1:500	10831-502-003	C

0 10 20 30 40 50
METRES

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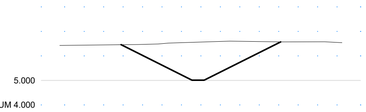
P:\10831\CAD\BCL\Working Drawings\10831-502-003C,0048,005B - Watercourse Diversion Cross Section.dwg

Original Drawing Size A1

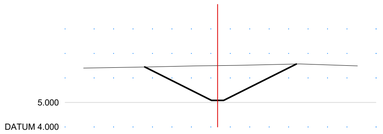
OFFSET		6.153		0.500	0.000	0.500	6.422			
GROUND LEVEL	6.457	6.438		6.471			6.505	6.486		
FEATURE LEVEL		6.438		5.025	5.025	5.025	6.505			

ALIGNMENT WATER
CHAINAGE 180.000



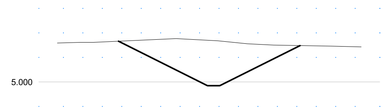
OFFSET		6.289		0.500	0.000	0.500	6.747			
GROUND LEVEL	6.429	6.457		6.564			6.572	6.537		
FEATURE LEVEL		6.457		5.010	5.010	5.010	6.572			

ALIGNMENT WATER
CHAINAGE 60.000



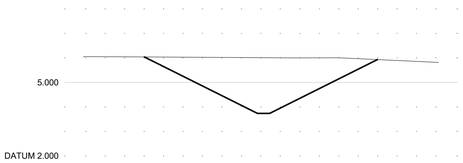
OFFSET		5.945		0.500	0.000	0.500	6.421			
GROUND LEVEL	6.403	6.446		6.496	6.503		6.565	6.491		
FEATURE LEVEL		6.446		5.085	5.085	5.085	6.565			

ALIGNMENT WATER
CHAINAGE 150.000



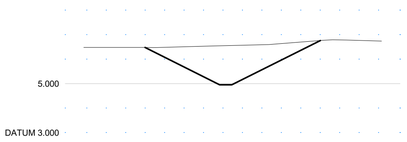
OFFSET		7.761		0.500	0.000	0.500	7.052			
GROUND LEVEL	6.585	6.660		6.699			6.483	6.427		
FEATURE LEVEL		6.660		4.845	4.845	4.845	6.483			

ALIGNMENT WATER
CHAINAGE 270.000



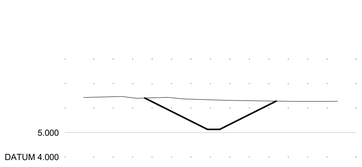
OFFSET		9.720		0.500	0.000	0.500	9.289			
GROUND LEVEL	6.051	6.038		6.009			5.930	5.815		
FEATURE LEVEL		6.038		3.733	3.733	3.733	5.930			

ALIGNMENT WATER
CHAINAGE 360.000



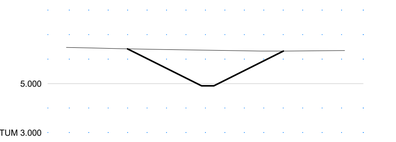
OFFSET		6.587		0.500	0.000	0.500	7.722			
GROUND LEVEL	6.476	6.472		6.542			6.755	6.725		
FEATURE LEVEL		6.472		4.950	4.950	4.950	6.755			

ALIGNMENT WATER
CHAINAGE 30.000



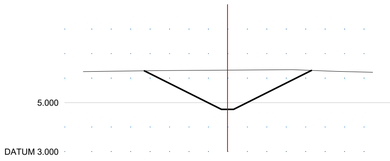
OFFSET		5.617		0.500	0.000	0.500	5.110			
GROUND LEVEL	6.431	6.409		6.341	6.324		6.282	6.276		
FEATURE LEVEL		6.409		5.130	5.130	5.130	6.282			

ALIGNMENT WATER
CHAINAGE 120.000



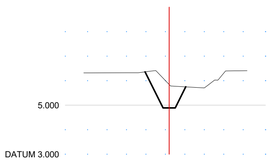
OFFSET		6.544		0.500	0.000	0.500	6.180			
GROUND LEVEL	6.472	6.416		6.361	6.387		6.325	6.345		
FEATURE LEVEL		6.416		4.905	4.905	4.905	6.325			

ALIGNMENT WATER
CHAINAGE 240.000



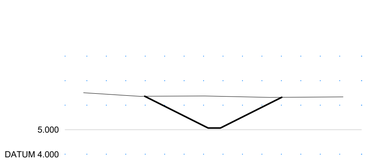
OFFSET		6.782		0.500	0.000	0.500	6.846			
GROUND LEVEL	6.265	6.295		6.322			6.311	6.237		
FEATURE LEVEL		6.295		4.725	4.725	4.725	6.311			

ALIGNMENT WATER
CHAINAGE 330.000



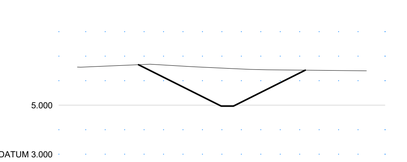
OFFSET		1.969		0.500	0.000	0.500	1.960			
GROUND LEVEL	6.316	6.359		6.109		5.750		6.409		
FEATURE LEVEL		6.359		4.880	4.880	4.890	5.750			

ALIGNMENT WATER
CHAINAGE 0.000



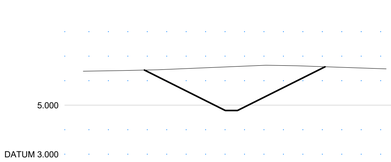
OFFSET		5.675		0.500	0.000	0.500	5.509			
GROUND LEVEL	6.509	6.364		6.372			6.322	6.340		
FEATURE LEVEL		6.364		5.070	5.070	5.070	6.322			

ALIGNMENT WATER
CHAINAGE 90.000



OFFSET		7.247		0.500	0.000	0.500	6.359			
GROUND LEVEL	6.555	6.652		6.514			6.430	6.405		
FEATURE LEVEL		6.652		4.965	4.965	4.965	6.430			

ALIGNMENT WATER
CHAINAGE 210.000



OFFSET		7.096		0.500	0.000	0.500	7.640			
GROUND LEVEL	6.388	6.434		6.561			6.570	6.483		
FEATURE LEVEL		6.434		4.785	4.785	4.785	6.570			

ALIGNMENT WATER
CHAINAGE 300.000

Construction Design and Management (CDM)
Key Residual Risks

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2) Street Lighting Cables
3) Working adjacent to water courses and flood plain
4) Soft ground conditions
5) Working adjacent to live highways and railway line
6) Unchartered services
7) Existing buildings with potential asbestos hazards

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B	Construction issue	MA	DC	RM 18.01.23
A	Updated sections	DC	DC	RM 13.12.22
-	First Issue	CL	DC	DC 10.08.22

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Bellway

Hook Lane
Pagham

Watercourse Diversion
Cross Section
Sheet 1

Construction		Aug 2022
CL	DC	10.08.22
H: 1:250 V: 1:125	10831-502-004	B

0 5 10 15 20 25
METRES

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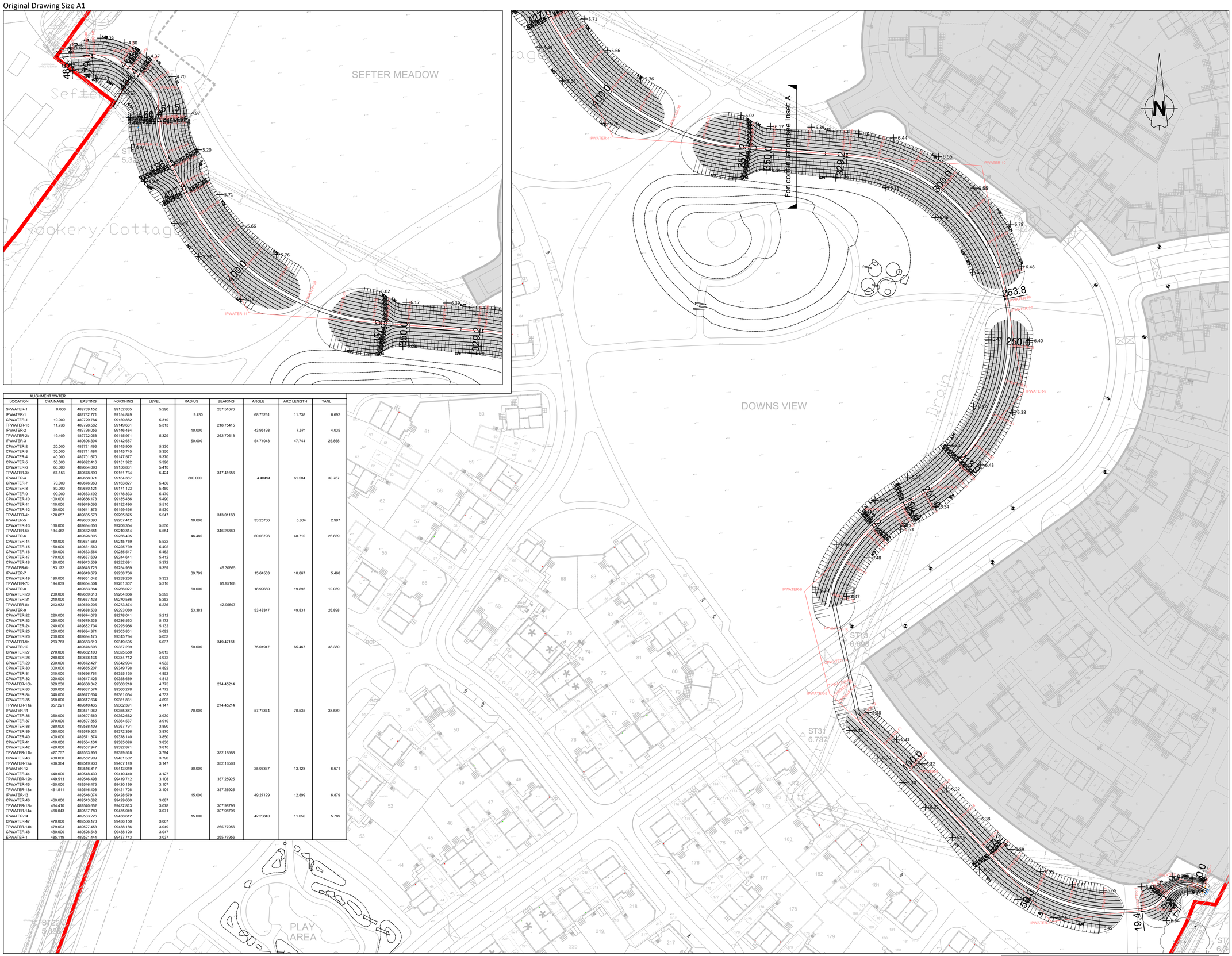
P:\10831\CAD\BCL\Working Drawings\10831-502-003B,004B,005B - Watercourse Diversion Cross Section.dwg

Original Drawing Size A1

| | | |

Original Drawing Size A1



ALIGNMENT WATER

LOCATION	CHAINAGE	EASTING	NORTHING	LEVEL	RADIUS	BEARING	ANGLE	ARC LENGTH	TANL
SPWATER-1	0.000	489739.152	99152.835	5.290		287.51676			
IPWATER-1		489732.771	99154.849		9.780		68.76261	11.738	6.692
CPWATER-1	10.000	489729.784	99150.882	5.310					
TPWATER-1b	11.738	489728.582	99149.631	5.313		218.75415			
IPWATER-2		489726.056	99146.484		10.000		43.95198	7.671	4.035
TPWATER-2b	19.409	489722.053	99145.971	5.329		262.70613			
IPWATER-3		489696.394	99142.687		50.000		54.71043	47.744	25.868
CPWATER-2	20.000	489721.466	99145.900	5.330					
CPWATER-3	30.000	489711.484	99145.745	5.350					
CPWATER-4	40.000	489701.670	99147.577	5.370					
CPWATER-5	50.000	489692.416	99151.322	5.390					
CPWATER-6	60.000	489684.090	99156.831	5.410					
TPWATER-3b	67.153	489678.890	99161.734	5.424		317.41656			
IPWATER-4		489658.071	99184.387		800.000		4.40494	61.504	30.767
CPWATER-7	70.000	489676.960	99163.827	5.430					
CPWATER-8	80.000	489670.121	99171.123	5.450					
CPWATER-9	90.000	489663.192	99178.333	5.470					
CPWATER-10	100.000	489656.173	99185.456	5.490					
CPWATER-11	110.000	489649.066	99192.490	5.510					
CPWATER-12	120.000	489641.872	99199.436	5.530					
TPWATER-4b	128.657	489635.573	99205.375	5.547		313.01163			
IPWATER-5		489633.390	99207.412		10.000		33.25706	5.804	2.987
CPWATER-13	130.000	489634.656	99206.354	5.550					
TPWATER-5b	134.462	489632.681	99210.314	5.554		346.26869			
IPWATER-6		489626.305	99236.405		46.485		60.03796	48.710	26.859
CPWATER-14	140.000	489631.689	99215.759	5.532					
CPWATER-15	150.000	489631.560	99225.739	5.492					
CPWATER-16	160.000	489633.564	99235.517	5.452					
CPWATER-17	170.000	489637.609	99244.641	5.412					
CPWATER-18	180.000	489643.509	99252.691	5.372					
TPWATER-6b	183.172	489645.725	99254.959	5.359		46.30665			
IPWATER-7		489649.679	99258.736		39.799		15.64503	10.867	5.468
CPWATER-19	190.000	489651.042	99259.230	5.332					
TPWATER-7b	194.039	489654.504	99261.307	5.316		61.95168			
IPWATER-8		489663.364	99266.027		60.000		18.99660	19.893	10.039
CPWATER-20	200.000	489659.818	99264.366	5.292					
CPWATER-21	210.000	489667.433	99270.586	5.252					
TPWATER-8b	213.932	489670.205	99273.374	5.236		42.95507			
IPWATER-9		489688.533	99293.060		53.383		53.48347	49.831	26.898
CPWATER-22	220.000	489674.078	99278.041	5.212					
CPWATER-23	230.000	489679.233	99286.593	5.172					
CPWATER-24	240.000	489682.704	99295.956	5.132					
CPWATER-25	250.000	489684.371	99305.801	5.092					
CPWATER-26	260.000	489684.175	99315.784	5.052					
TPWATER-9b	263.763	489683.619	99319.505	5.037		349.47161			
IPWATER-10		489676.606	99357.239		50.000		75.01947	65.467	38.380
CPWATER-27	270.000	489682.100	99325.550	5.012					
CPWATER-28	280.000	489678.134	99334.712	4.972					
CPWATER-29	290.000	489672.427	99342.904	4.932					
CPWATER-30	300.000	489665.207	99349.798	4.892					
CPWATER-31	310.000	489656.761	99355.120	4.852					
CPWATER-32	320.000	489647.426	99358.659	4.812					
TPWATER-10b	329.230	489638.342	99360.218	4.775		274.45214			
CPWATER-33	330.000	489637.574	99360.278	4.772					
CPWATER-34	340.000	489627.604	99361.054	4.732					
CPWATER-35	350.000	489617.634	99361.831	4.692					
TPWATER-11a	357.221	489610.435	99362.391	4.147		274.45214			
IPWATER-11		489571.962	99365.387		70.000		57.73374	70.535	38.589
CPWATER-36	360.000	489607.669	99362.662	3.930					
CPWATER-37	370.000	489597.855	99364.537	3.910					
CPWATER-38	380.000	489588.409	99367.791	3.890					
CPWATER-39	390.000	489579.521	99372.356	3.870					
CPWATER-40	400.000	489571.374	99378.140	3.850					
CPWATER-41	410.000	489564.134	99385.026	3.830					
CPWATER-42	420.000	489557.947	99392.871	3.810					
TPWATER-11b	427.757	489553.966	99399.518	3.794		332.18588			
CPWATER-43	430.000	489552.909	99401.502	3.790					
TPWATER-12a	436.384	489549.930	99407.149	3.147		332.18588			
IPWATER-12		489546.817	99413.049		30.000		25.07337	13.128	6.671
CPWATER-44	440.000	489548.439	99410.440	3.127					
TPWATER-12b	449.513	489546.498	99419.712	3.108		357.25925			
CPWATER-45	450.000	489546.475	99420.199	3.107					
TPWATER-13a	451.511	489546.403	99421.708	3.104		357.25925			
IPWATER-13		489546.074	99428.579		15.000		49.27129	12.899	6.879
CPWATER-46	460.000	489543.682	99429.630	3.087					
TPWATER-13b	464.410	489540.652	99432.813	3.078		307.98796			
TPWATER-14a	468.043	489537.789	99435.049	3.071		307.98796			
IPWATER-14		489533.226	99438.612		15.000		42.20840	11.050	5.789
CPWATER-47	470.000	489536.173	99436.150	3.067					
TPWATER-14b	479.093	489527.453	99438.186	3.049		265.77956			
CPWATER-48	480.000	489526.548	99438.120	3.047		265.77956			
EPWATER-1	485.119	489521.444	99437.743	3.037					

Construction Design and Management (CDM)
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A	Vistry layout updated	MA	DC	RM	02.03.2023
-	First Issue	DC	RM	RM	09.09.2022

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Bellway

Hook Lane
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Watercourse Setting Out Plan

Construction		Sept 2022
DC	RM	09.09.2022
1:500	10831-503-001	A

0 10 20 30 40 50
METRES

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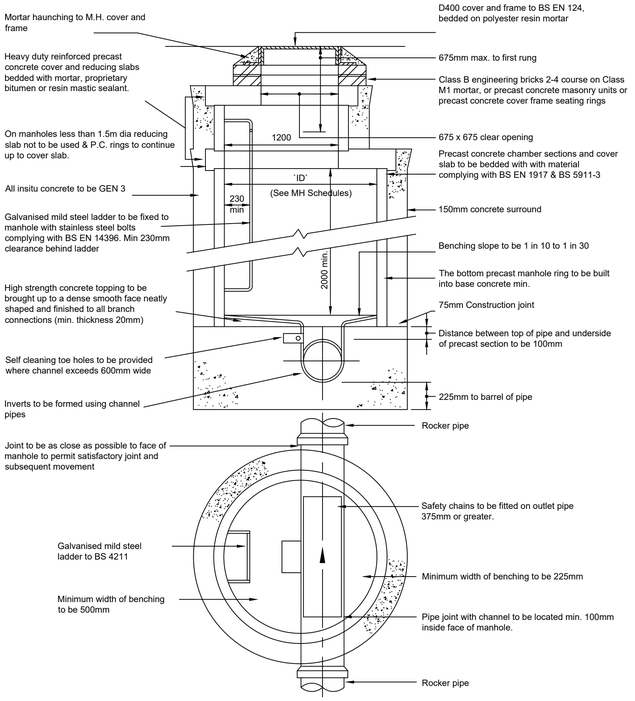
P:\10831\CAD\BCL\Working Drawings\10831-503-001A - Watercourse Setting Out.dwg

Original Drawing Size A1

TYPICAL MANHOLE CONSTRUCTION DETAILS

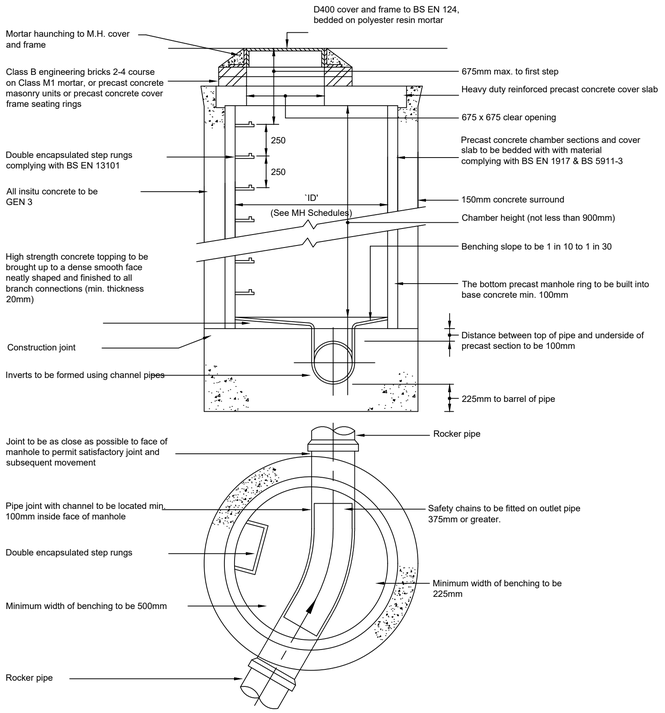
N.T.S.



TYPE 1A - SFA Figure B.8

(Depth from ground level to soffit of pipe 3m to 6m)

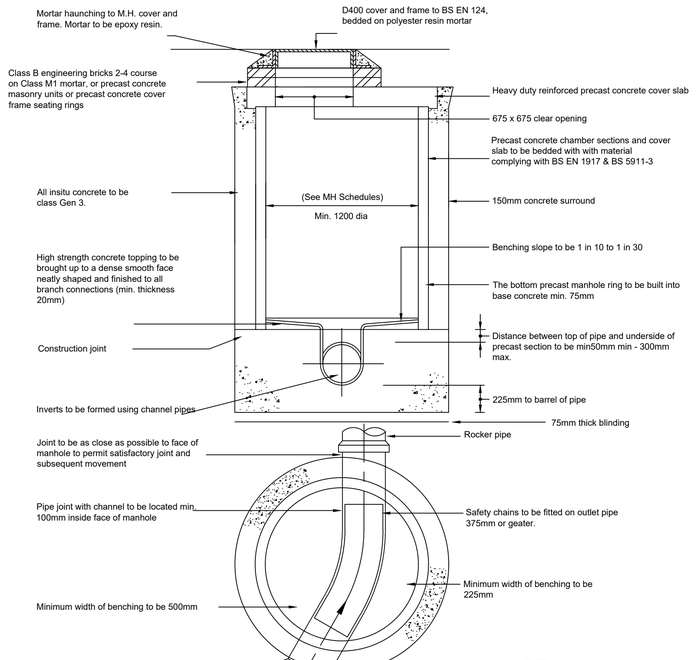
(Alternative construction Type 1A - SFA Figure B.9 using wide wall manhole sections is also acceptable.)



TYPE 2 - SFA Figure B.12

(Max. depth from ground level to soffit of pipe 3.0m)

(Alternative construction Type 2 - SFA Figure B.13 using wide wall manhole sections is also acceptable.)

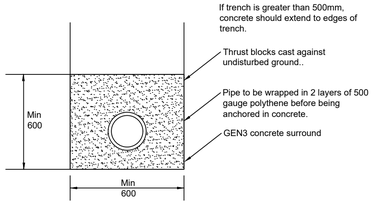


TYPE 3.

(Depth from cover level to soffit of pipe 1.0m - 1.5m)

(Alternative construction Type 3 using wide wall manhole sections is also acceptable.)

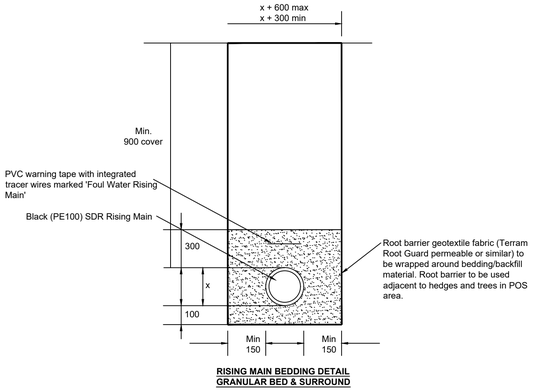
POSITION & SIZE OF ACCESS IN CONCRETE COVER SLAB		
SHAFT / CHAMBER SIZE	M/H DEPTH LESS THAN 1.5m	M/H DEPTH 1.5m OR GREATER
1200mm - 1350mm	675 X 675mm CENTRAL	675 X 675mm ECCENTRIC
1500mm	1200 X 675mm CENTRAL	675 X 675mm ECCENTRIC
1800mm - 3000mm	1200 X 675mm CENTRAL	675 X 675mm ECCENTRIC



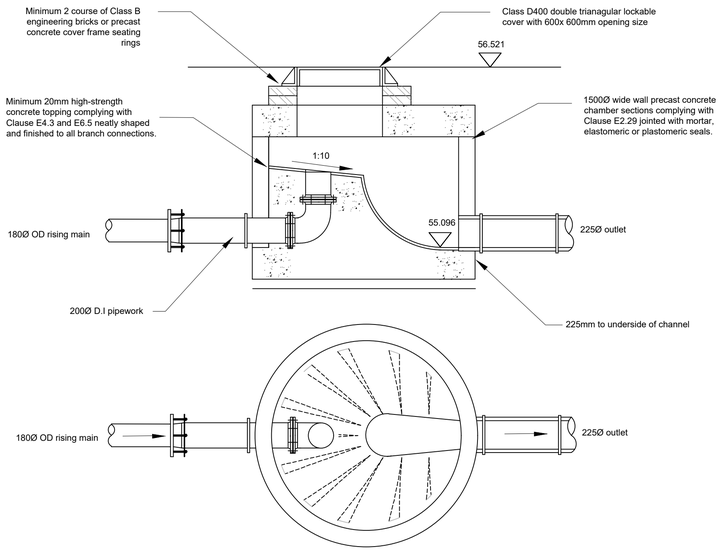
RISING MAIN THRUST BLOCK DETAIL

TYPE S

Bedding Factor - 2.5



RISING MAIN BEDDING DETAIL GRANULAR BED & SURROUND



Rising Main - Break Chamber

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6. Any discrepancies between the information displayed on this drawing and others are to be reported to the engineer before the commencement of works.
7. Any damage caused to existing footways, roads or other third party property is to be made good to the county engineers requirements.
8. All adoptable drainage to be in accordance with Sewerage Sector Guidance (SSG) Appendix C - Design and Construction Guidance (DCG).
9. This drawing should not be used for construction purposes until approval has been granted from the relevant water authority.

-	First Issue	CL	DC	RM 07.12.22

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Bellway

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S185 Rising Main Diversion Standard Details

Status		Status Date
Approval		Dec 2022
Drawn	**Checked**	**Date**
CL	DC	07.02.2022
Scale	**Number**	**Rev**
As Shown	10831-520-102	-

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