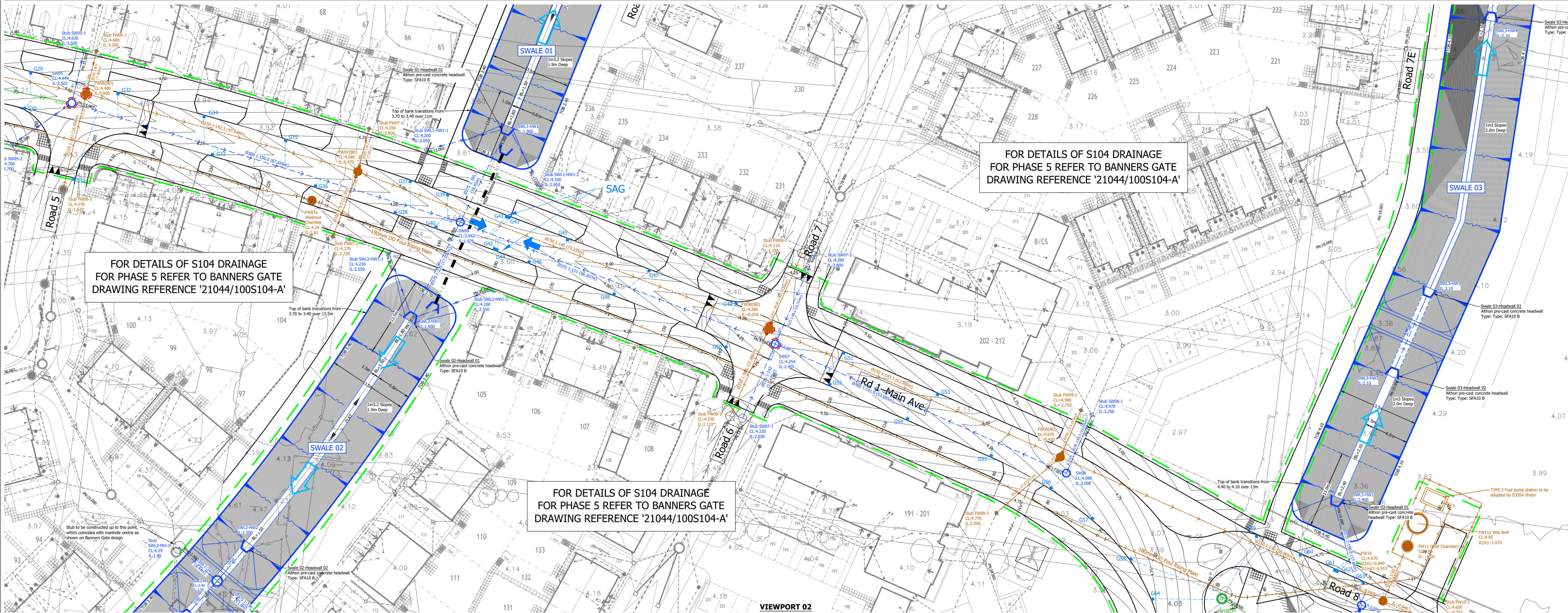
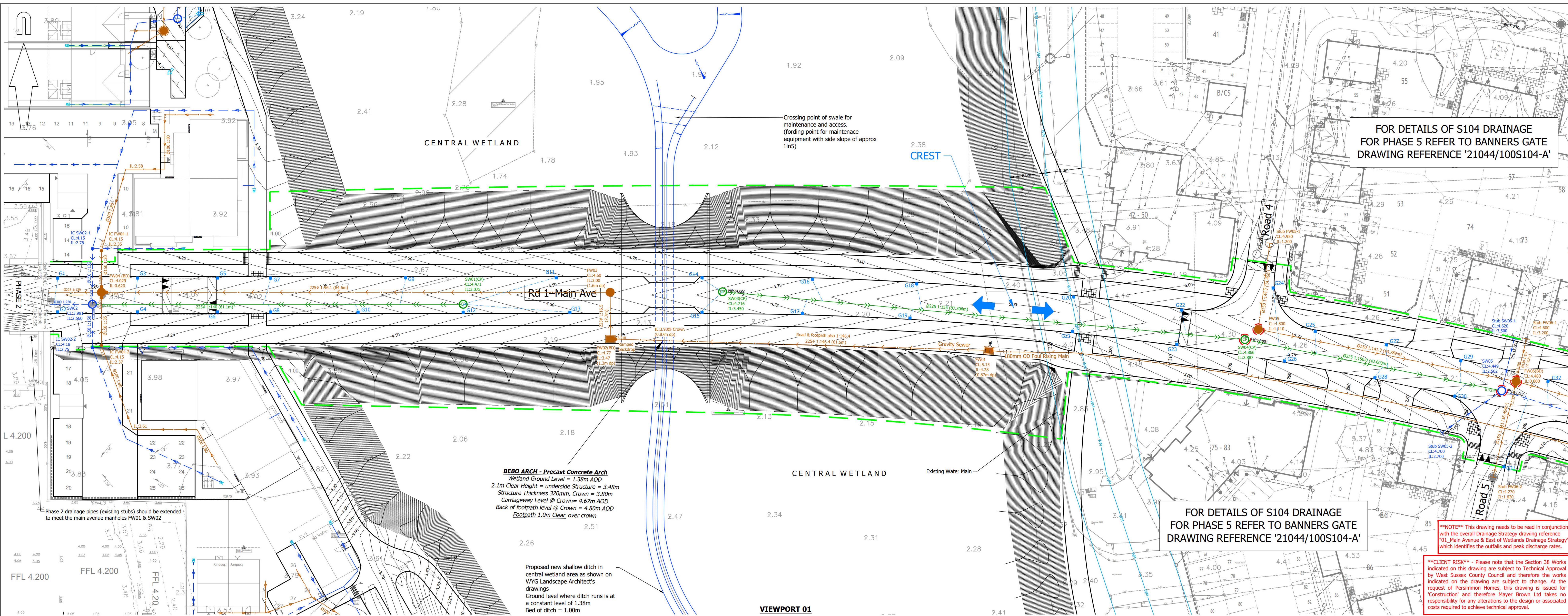


APPENDIX I: Sitewide Foul - Phase 2, 4 & 2 Drainage Plans



A0 ORIGINAL

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KEY

PROPOSED SURFACE WATER SEWER AND MANHOLE

PROPOSED HIGHWAY DRAINAGE AND CATCHPIT

PROPOSED SURFACE WATER FLOW CONTROL CHAMBER

PROPOSED SURFACE WATER DRAINAGE

PROPOSED FOUL WATER SEWER AND MANHOLE

PROPOSED FOUL WATER BACKDROP MANHOLE

PROPOSED FOUL WATER SHALLOW MANHOLE

PROPOSED FOUL WATER RISING MAIN

PROPOSED FOUL WATER DRAINAGE

EXISTING WATER MAIN TRACE

PROPOSED ROAD GULLY AND GULLY LEAD

PROPOSED HEADWALL

PROPOSED SWALE

PROPOSED CONTOURS

PROPOSED EMBANKMENT

LIMIT OF WORKS ASSOCIATED WITH MAIN AVENUE

DIRECTIONAL FLOW/FALL OF PROPOSED SURFACE WATER AND ROADS

PREMARK ANT-KITD TREATMENT TO MANHOLE COVER

NOTES:

- This drawing is not to be scaled.
- Based on topographic survey undertaken by Subvision Survey Ltd on March 2022, drawing reference SS-PH-013.
- Drawing based on Banners Gate Engineering Base drawing reference "X_21044 - Engineering Base", received on 22/06/2022.
- This drawing is to be read in conjunction with all relevant engineering and landscaping drawings. Any discrepancies are to be reported to the engineer immediately for clarification.
- All on-site civils and drainage works constructed in accordance with the Mayor Brown Limited Specification, details and MHI schedules.
- Proprietary items are to be constructed in accordance with manufacturers recommendations / requirements.
- All drainage works shall be carried out in accordance with the requirements of the Local Authority, the Environment Agency and in conjunction with all relevant British Standards, Codes of Practice, the Design and Construction Guidance for foul and surface water sewers and any addendums as appropriate.
- Invert levels and positions of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any works.
- Any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved means.
- All new manholes and catchpits are to be constructed to suit unless noted otherwise. Invert level shown is outlet pipe.
- All drainage shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
- All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
- The diameters and gradients of the main surface water and foul water carrier drains are identified on the layout.
- Cover levels are to be adjusted locally to suit finished ground levels.
- HEALTH AND SAFETY: The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operatives shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.

FOR CONSTRUCTION

C7	Alignment and levels of rising main amended after drainage 76. Drainage updated following revised submission to WSCC (TC)	SF	22/11/23
C6	PW02 & PW03 moved so no longer above BEBO Arch. (TC)	SF	07/07/23
C5	Revised to accommodate WSCC's comments received on 19/01/2022: 1) PW02 & PW03 moved away from bank area, 2) G31 moved to bottom of ramp. Pump General Changes: Swales 01, 02 & 03 lowered. Pump Compound updated. (TC)	IC	12/04/23
C4	Swale 01 removed, gully leads updated accordingly. (clouds), (TC)	SF	22/11/22
C3	Drawing revised following design meeting on 02/11/2022. Key updated. (TC)	SF	11/11/22
C2	Gully spacing revised. Catchpit SW01 moved and Catchpit SW10 added. Key updated (clouds), (TC)	IC	26/10/22
C1	Status changed to "For Construction" (TC)	SF	21/07/22
T8	Drainage updated to reflect S104 sewers ownership. Banners Gate's design added. (TC)	SF	21/06/22
T7	Manholes renumbered, some Manholes changed to Catchpits and Key updated. (TC)	SF	26/05/22
T6	Drawing updated following ISA comments received on 12/01/22 and comments from WSCC dated 16/02/22. (TC)	IC	24/02/22
T5	Revised Architect's layout received on 22/11/2021. Gully numbers and catchment areas added.	SF	25/11/21

rev.	amendment	checked	date

m3

mayer brown

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client:

PERSIMMON HOMES THAMES VALLEY

project:

NORTH LITTLEHAMPTON
EAST OF WETLANDS
MAIN AVENUE & NORTHERN CROSSING

scale:

1:250

drawn by:

TC

checked by:

SF

date:

OCTOBER 2019

cad file:

20.DWG

title:

DRAINAGE GENERAL ARRANGEMENT DRAWING
(SHEET 1 OF 3)

Mayor Brown Limited jobcode

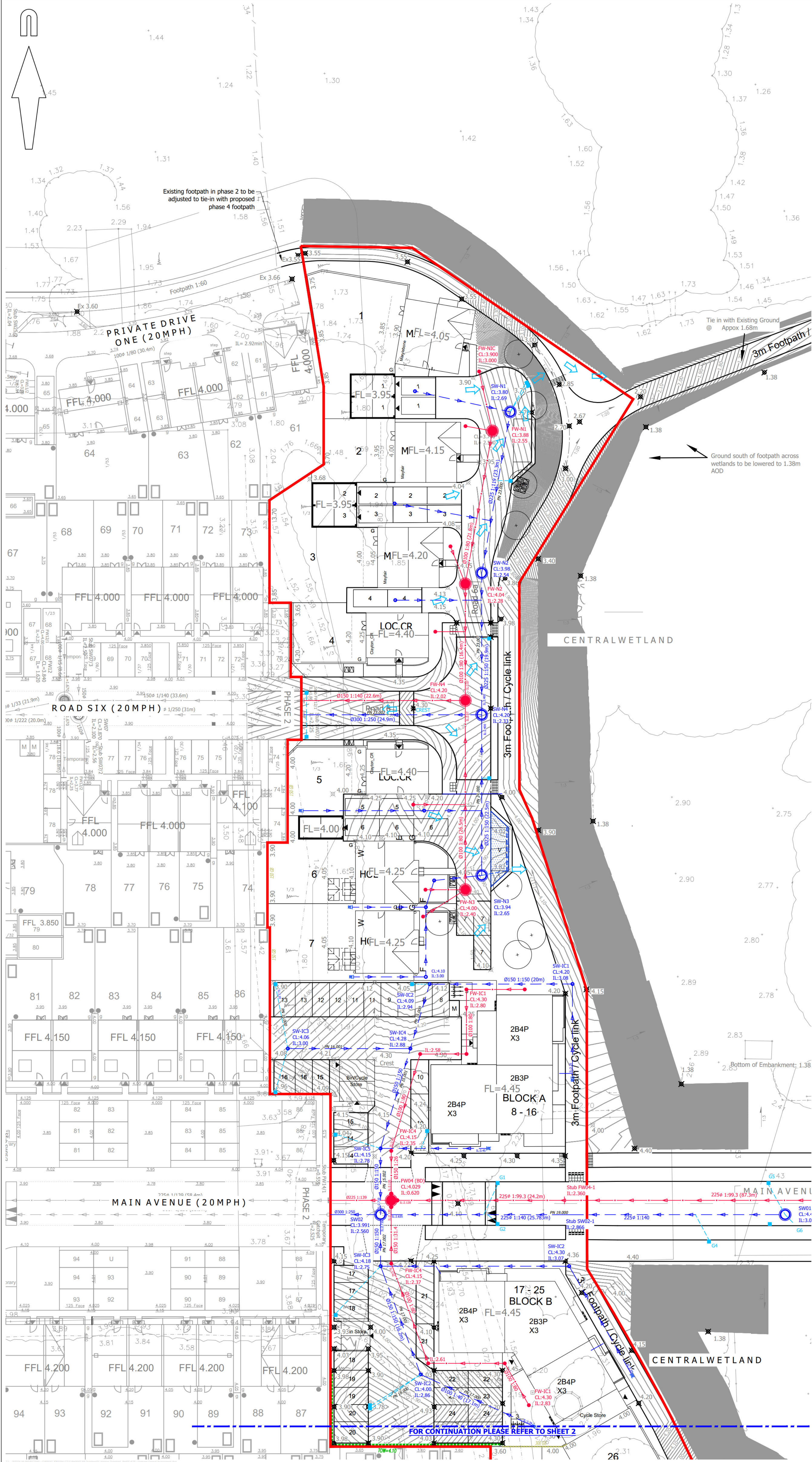
suitability

revision

C7

drawing number:

A/PHLITTLE-MAIN.1/20-1



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A1 ORIGINAL

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DRAINAGE KEY:

- PROPOSED SURFACE WATER SEWER AND MANHOLE
- PROPOSED FOUL WATER SEWER AND MANHOLE
- PROPOSED FOUL WATER BACKDROP
- PROPOSED SURFACE WATER SEWER AND INSPECTION CHAMBER
- PROPOSED FOUL WATER SEWER AND INSPECTION CHAMBER
- PROPOSED ROAD GULLY
- PROPOSED RODDING EYE
- PROPOSED SURFACE WATER OUTFALL
- PROPOSED ATTENUATION TANK
- PROPOSED PERMEABLE PAVING & FIN DRAIN
- EXCEEDENCE FLOW ARROWS
- PROPOSED CONTOURS
- PROPOSED FOUL RISING MAIN
- SITE BOUNDARY

LEVELS KEY:

- FL=1.45 PROPOSED FLOOR LEVEL
- 1/200 PROPOSED GRADIENT
- PROPOSED GRAVEL BOARD RETENTION
- TOW=3.05 PROPOSED RETAINING WALL

NOTES:

- Drawing based on Persimmon Homes Thames Valley Architect's 'Site Layout' drawing reference 545_PL_AP2_101, received on 15/04/2021.
- Based on topographic survey by WYG drawing numbered GGL/A044029/LAY/01.

FOR INFORMATION
NOT FOR CONSTRUCTION

P8	Drawing revised following revised Architects layout (2nd Application) dated 15/04/21. (TC)	SF	20/05/21
P7	Junction between footpath linking phase 2 and 4, and cycleway amended to match revised Architect's layout received on 26/03/2021 (clouded). Red line boundary amended. (IC)	SF	30/03/21
P6	Footpath linking phase 2 and 4 amended to a constant 2m width. (TC)	SF	18/03/21
P5	Microdrainage pipe labels added. (TC)	SF	22/12/20
P4	Drawing updated following revised layout. Key Updated (TC)	SF	02/10/20
P3	Exceedence Flow Arrows Added (SF)	SF	06/07/20
P2	Kerbs updated in parking courts A & B and along the main avenue. (TC)	SF	09/06/20
P1	Initial Issue. (TC)	SF	04/06/2020

rev.	amendment	checked	date

mayer brown

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client

PERSIMMON HOMES THAMES VALLEY

project

PHASE 4
LITTLEHAMPTON

scale	drawn by	checked by
1:250	TC	SF

date	cad file
FEBRUARY 2020	20.DWG

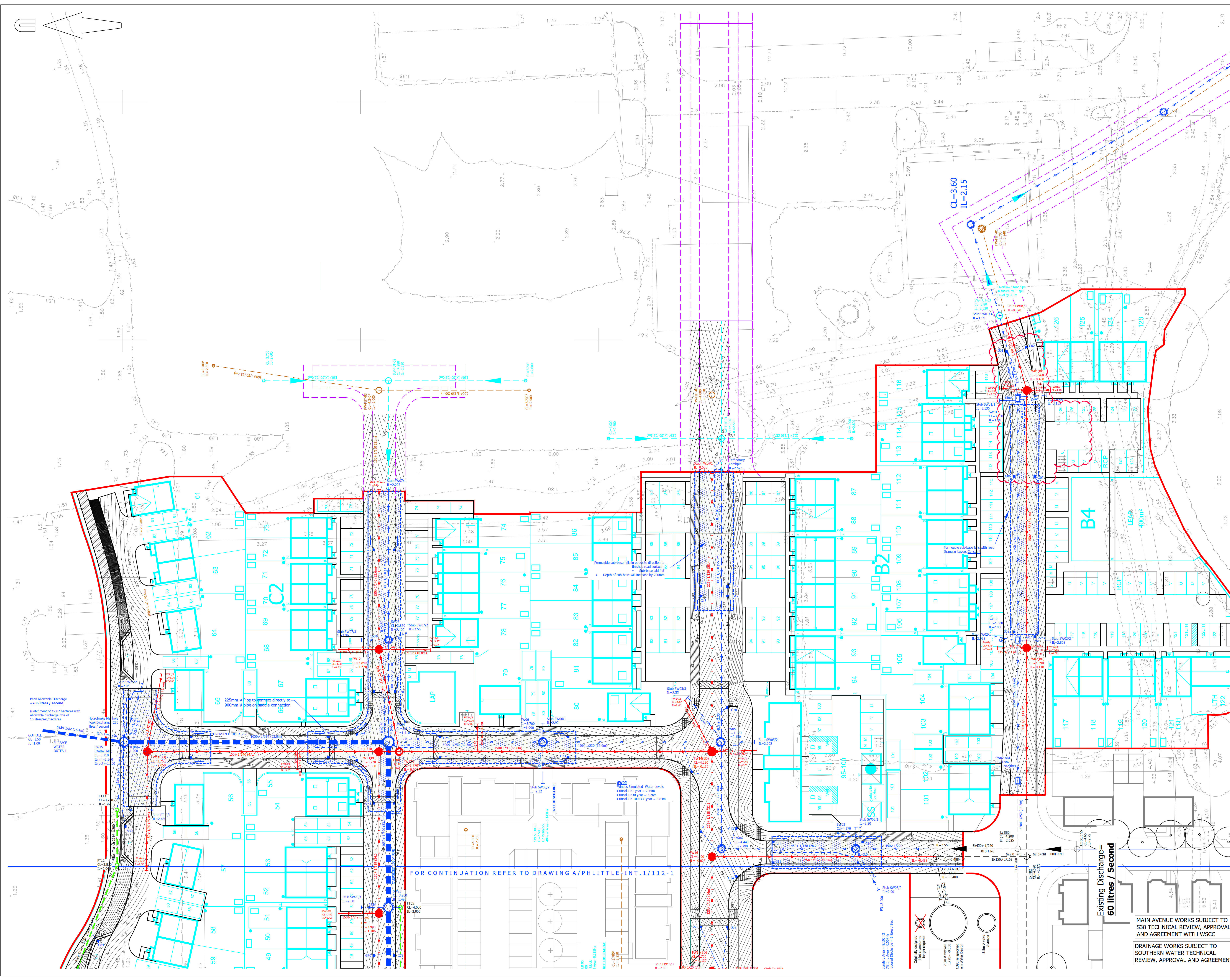
title

PROPOSED DRAINAGE AND LEVELS DRAWING
(SHEET 1 OF 3)

Mayer Brown Limited jobcode	suitability	revision
	-	P8

drawing number

PHLITTLE P4-20-1



A0 ORIGINAL

SURFACE WATER KEY

- PROPOSED SEWER AND MANHOLE
- PROPOSED OVERSIZED PIPE
- PROPOSED GULLY AND GULLY CONNECTION
- OUTLINE OF PERMEABLE SUBBASE BENEATH CARRIAGEWAY (REFER TO DETAILS A/PHLITTLE-INT.1/MB/F/02)
- PROPOSED DISPERSION PIPE INTO SUBBASE (REFER TO DETAIL A/PHLITTLE-INT.1/MB/F/02)
- PROPOSED COLLECTION DRAIN WITHIN CARRIAGEWAY (REFER TO DETAIL A/PHLITTLE-INT.1/MB/F/02)
- PROPOSED ATTENUATION TANK
- PROPOSED FILTER TRENCH
- EXISTING SEWER AND MANHOLE
- PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS

FOUL WATER KEY

- PROPOSED SEWER AND MANHOLE
- PROPOSED BACKDROP MANHOLE
- EXISTING SEWER AND MANHOLE
- PROPOSED SEWER AND MANHOLE FOR FUTURE PLOTS
- SITE BOUNDARY

- NOTES:**
- This drawing is not to be scaled
 - This drawing is to be read in conjunction with the MJA Consulting 'Drainage Layout' (Sheet 17) drawing reference 5991-01, received on 30/11/2017
 - This drawing is to be read in conjunction with the latest revision of the Topographic Survey undertaken by WYG in July 2008, drawing numbered GSU/040402/LAY/01
 - Site layout taken from PHTV drawing numbered 543_PL SITE LAYOUT_REV E
 - The proposed road and footpath levels have been set to ensure they are a minimum of 300mm above the nearest 1in100yr flood level (incl. CC) as described in the WYG flood compensation report. The finished floor levels of the proposed dwellings will be above the adjacent road and footpath levels to ensure they are a minimum of 500mm above the flood level.
 - All on-site civils and drainage works constructed in accordance with the Mayer Brown Limited Specification, details and schedules.
 - Proprietary items are to be constructed in accordance with manufacturers recommendations / requirements.
 - All drainage works shall be carried out in accordance with the requirements of the Local Authority, the Environment Agency and in conjunction with all relevant British Standards, Codes of Practice and 'Sewers for Adoption' 7th Edition and any addendums as appropriate.
 - Invert levels and positions of existing drains / chambers / sewers where new connections are to be made must be checked and confirmed to the engineer prior to the commencement of any works.
 - All new manholes and catchpits are to be constructed to suit unless noted otherwise. Invert level shown is outlet pipe.
 - Any part of the existing drainage system to be retained as part of the new scheme shall be cleaned and inspected. Any structural defects shall be repaired using appropriate and approved means.
 - All drainage shall comply with the typical details and the requirements of BS EN 752 and Part H of the Building Regulations.
 - All runs connecting into the public drainage network to be vitrified clay, extra length to BS EN 295 or BS65 with plain sloped or socketed flexible joints.
 - All precast concrete units used in the drainage works shall be manufactured using sulphate resisting cement.
 - Manhole covers and frames shall be to BS EN 124 and shall be kitemarked. The strength classes of covers are shown in the manhole schedules.
 - Cover levels are to be adjusted locally to suit finished ground levels.
 - HEALTH AND SAFETY:** The works shall be carried out by specialist competent and experienced contractors who are members of a recognised national organisation. Operators shall have received full and appropriate training for the operations they are to undertake. All work shall be carried out in accordance with all pertinent Health and Safety Regulations.
 - All works and materials shall comply with the Highways Agency Manual of Contract Documents for Highway Works (MCHW) and West Sussex County Council Standard details.

FOR CONSTRUCTION

C4	Initial table removed in front of plots 113-116, bollards changed to footway crossover into parking court for plots 123-126. (See revision cloud) (IC)	SF	18/09/2019
C3	Foul drainage altered, refer to revision cloud. (CON)	SF	14/03/2018
C2	Drainage strategy updated and in absence revision cloud removed. (IC)	SF	29/02/2018
C1	Drainage strategy updated. (CON)	SF	09/02/2018
T4	Notes updated. (CON)	SF	23/01/2018
T3	Site layout updated and absence area removed. (CON)	SF	16/01/2018
T2	General update. (IC)	SF	01/12/2017
T1	Initial tender issue. (CON)	SF	19/11/2017

rev. amendment checked date

m3 mayer brown

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client
PERSIMMON HOMES THAMES VALLEY

project
**NORTH LITTLEHAMPTON PHASE 2
PARCEL C1 AND PART PARCELS B2, B4 & C2**

scale 1:250 drawn by OIN checked by SF

date NOVEMBER 2017 cad file MASTER.DWG

title
DRAINAGE GENERAL ARRANGEMENT (2 OF 2)

drawing number
A/PHLITTLE-INT.1/112-2 rev.
C4

APPENDIX J: Sitewide Foul - Hampton Park Foul Pump Station

Sean Foley

From: Barnes, Duncan <[REDACTED]@uk>
Sent: 11 September 2019 15:32
To: Robin Bishop
Cc: Eley, Lucy
Subject: FW: Toddington lane pump Station

Hi Robin,

Just to confirm that the pump station is now up and running.

As soon as the telemetry is available, we will install it; but this won't cause any further hold ups in regards to the pump station.

Regards,

Duncan Barnes
Project Manager,
Engineering & Construction

[REDACTED]
southernwater.co.uk



From: Andy Keohane (MGJV) [m [REDACTED]@k]

Sent: 11 September 2019 15:12

To: Barnes, Duncan <D [REDACTED]@>

Cc: Csatos, George <G [REDACTED]@> Alex [REDACTED]@>
<[REDACTED]@mgjvframework [REDACTED]@>

Subject: Toddington lane pump Station

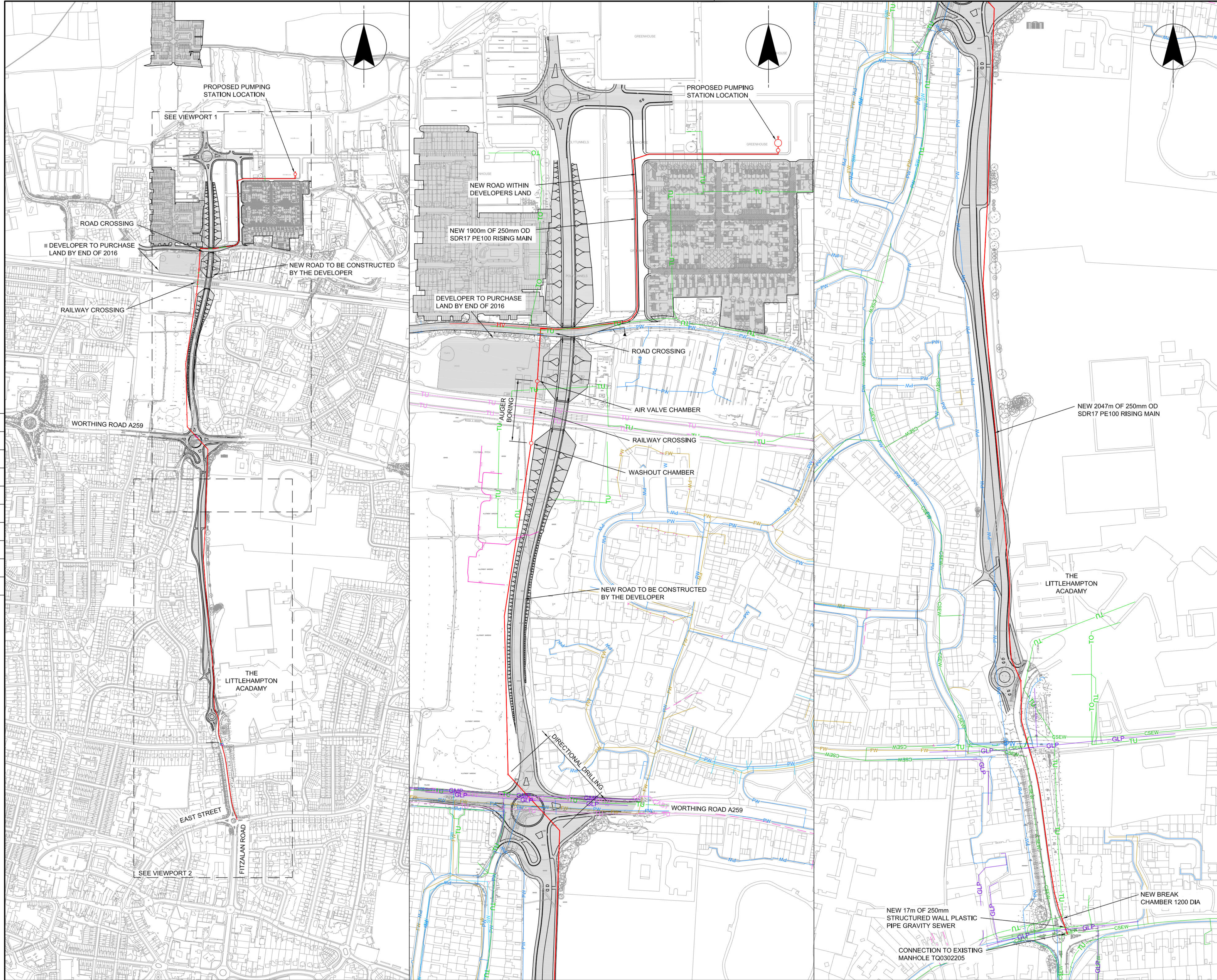
Hi Duncan

The Pump Station at Toddington is now pumping flows with its own pumps and through the new Rising main, Overpumping has been off hired but as explained previously the temporary telemetry has been retained until such time as SWS can provide a telemetry signal for the permanent out station

Kind Regards
Andy

MGJV
Lewes Road
Falmer
Brighton
East Sussex BN1 9PY
www.gallifordtry.co.uk





S.W. DRAWING NO.
JN.670038-27.1C0002

REVISION
B

NOTES

1. ALL DIMENSIONS IN MILLIMETRES AND ALL LEVELS IN METRES UNLESS SHOWN OTHERWISE.

2. THIS DRAWING IS BASED ON HISTORICAL AND O.S. DATA. INCONSISTENCY IN DATA SHOULD BE CHECKED AND VERIFIED BEFORE EXCAVATION.

3. EXISTING AND INDICATIVE PIPE ROUTES BASED ON GIS DATA. SOUTHERN WATER SERVICES LTD. ACCEPT NO RESPONSIBILITY IN THE EVENT OF INACCURACY. THE ROUTES ARE TO BE CHECKED AND VERIFIED BEFORE CONSTRUCTION WORKS.

REFERENCES

JN.670038-27.1C0002 - SITE LAYOUT OVERVIEW

JN.670038-27.1C0005 - HAZARD PLAN AND LONGSECTION, SITE OVERVIEWS

JN.670038-27.1C0006 - PLAN AND LONGITUDINAL SECTION, SHEET 1 OF 8

JN.670038-27.1C0007 - PLAN AND LONGITUDINAL SECTION, SHEET 2 OF 8

JN.670038-27.1C0008 - PLAN AND LONGITUDINAL SECTION, SHEET 3 OF 8

JN.670038-27.1C0009 - PLAN AND LONGITUDINAL SECTION, SHEET 4 OF 8

JN.670038-27.1C0010 - PLAN AND LONGITUDINAL SECTION, SHEET 5 OF 8

JN.670038-27.1C0011 - PLAN AND LONGITUDINAL SECTION, SHEET 6 OF 8

JN.670038-27.1C0012 - PLAN AND LONGITUDINAL SECTION, SHEET 7 OF 8

JN.670038-27.1C0013 - PLAN AND LONGITUDINAL SECTION, SHEET 8 OF 8

JN.670038-27.1C0021 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 1

JN.670038-27.1C0022 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 2

JN.670038-27.1C0023 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 3

JN.670038-27.1C0024 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 4

JN.670038-27.1C0025 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 5

JN.670038-27.1C0026 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 6

JN.670038-27.1C0027 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 7

JN.670038-27.1C0028 - SIGNIFICANT HAZARDS AND HIGH RISK SERVICES, SHEET 8

JN.670038-27.1C2901 - PUMPING STATION GENERAL ARRANGEMENT

JN.670038-27.1C2902 - PUMPING STATION COMPOUND LAYOUT

LEGEND

PROPOSED WORKS

FUTURE ROAD CONSTRUCTION BY OTHERS

FOUL RISING MAIN (UNADOPTED)

FOUL PUMPING STATION (UNADOPTED)

SEWERS

SW

EXISTING SURFACE WATER SEWER

FW

EXISTING FOUL WATER SEWER

CSEW

EXISTING COMBINED MAIN

EXISTING PRIVATE SEWER

UTILITIES

PW

POTABLE WATER MAIN

TO

OVERHEAD TELECOMS

TU

UNDERGROUND TELECOMS

HV

HIGH VOLTAGE ELECTRIC

CABTV

CABLE TV

TU

TELECOMS U/G OTHER

GLP

LOW PRESSURE GAS MAIN

GMP

MEDIUM PRESSURE GAS MAIN

SCALE 1 : 2000

SCALE 1 : 5000

CURRENT VERSION INFORMATION

B. TWO NOTES ALTERED.

2016/10/07	BN	AR	JC	A	FOR INFORMATION
2017/03/28	BN	AR	GA	B	FOR INFORMATION
DATE	DRWN	CHKD	REVO	REV	REASON FOR ISSUE

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In Partnership with

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PROJECT TITLE

S98 DEV. NORTH OF TODDINGTON LANE

LITTLEHAMPTON

DRAWING TITLE

SITE LAYOUT OVERVIEW

SITE UNIT MEMORIC

PRN

670038-27

SITE UNIT NO.

SCALE

AS SHOWN

MASTER SIZE

A1

S.W. DRAWING NO.

JN.670038-27.1C0002

REVISION

B

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