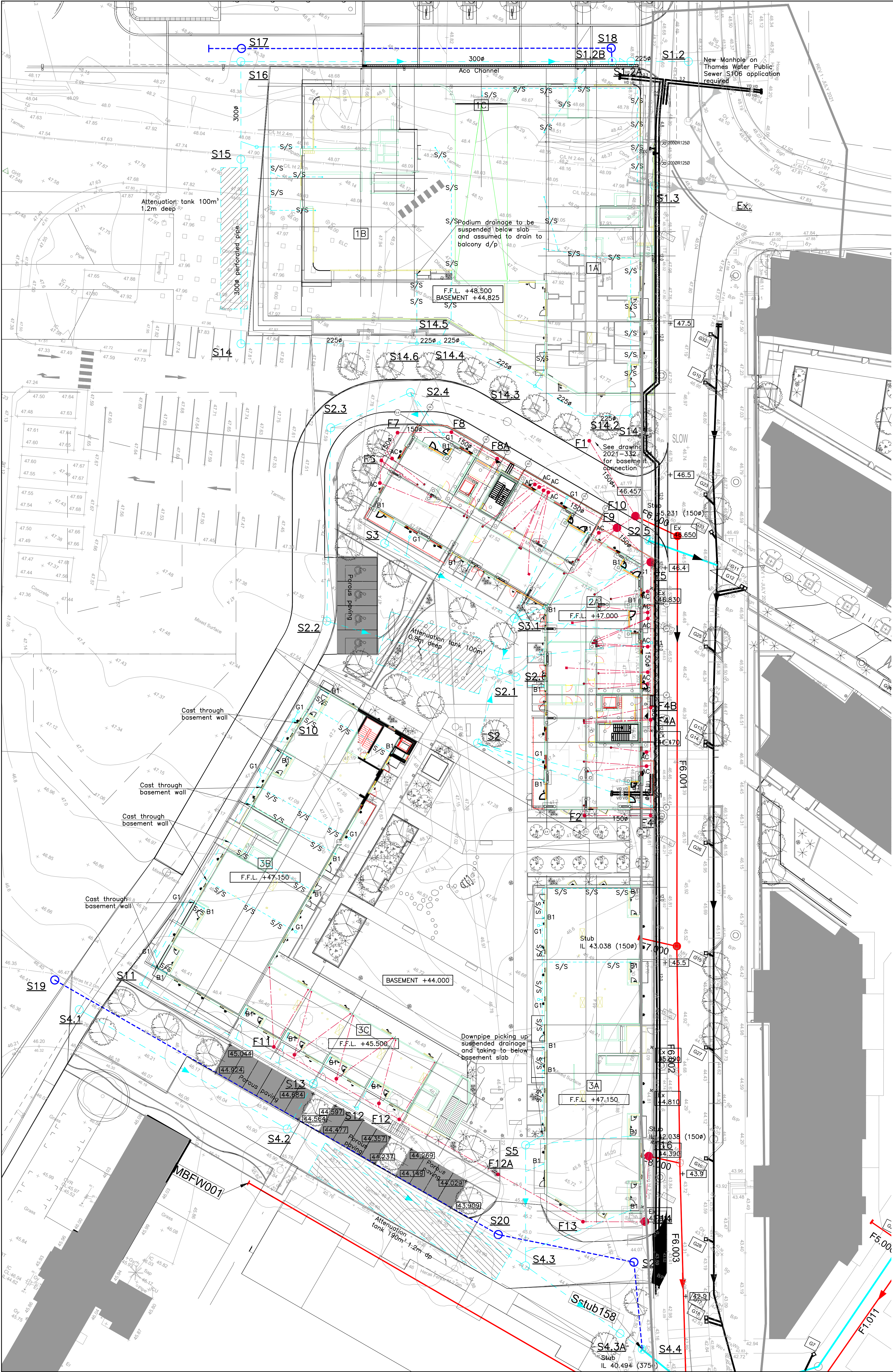




Project Title:		Town Centre West, Uxbridge					
Project No.:		2016-281					
Surface Water							Notes
M.H. No.	Cover level	Invert level	Size	Type	Largest pipe size	Cover type	
S1	48.500	46.500	1200	CR	150	D400	Receiving chamber Pumping station 13.4/s Stub (I.L. To Be Confirmed)
S1.2	48.400	46.518	1200	CR	225	D400	
S1.2A	48.400	46.547	1200	CR	150	D400	
S1.2B	48.400	45.187				D400	
S1.3	48.500	T.B.C.	1200	CR	225	D400	Hydrobrake 15Lts/sec
S2	47.000	45.131	600	Tegra	225	B125	
S2.1	47.000	45.378	1200	CRCP	300	B125	
S2.2	47.000	45.429	1200	CR	300	D400	
S2.3	47.100	45.567	1200	CR	225	D400	As confirmed by OC
S2.4	46.900	45.705	1200	CR	225	D400	
S2.5	46.500	44.910	1200	CR	225	D400	
S2.6	47.000	45.353	600	Tegra	225	B125	
S3	47.000	46.000	600	Tegra	225	B125	Hydrobrake 15Lts/sec Atkins Stub158
S3.1	47.000	45.850	600	Tegra	225	B125	
S4	46.900	45.500	1200	CR	225	D400	
S4.1	46.700	44.094	1200	CR	300	D400	
S4.2	44.100	41.780	1200	CR	450	D400	Stub (I.L. To Be Confirmed)
S4.3	44.000	41.700	1200	CRCP	450	D400	
S4.3A	43.000	41.500	1200	CRCP	450	C250	
S4.4	43.000	40.404	1500	CR	375	B125	
S5	44.100	42.700	1200	CR	225	D400	Stub (I.L. To Be Confirmed)
S6	45.000	43.600	1200	CR	150	D400	
S6.1	44.100	42.600	1200	CR	150	D400	
S7	45.100	43.300	1200	CR	150	B125	
S7.1	44.200	42.200	1200	CR	150	B125	Stub (I.L. To Be Confirmed)
S7.2	42.500	40.500	1200	CR	225	B125	
S7.3	41.800	40.200	1200	CR	225	B125	
S8	45.100	44.000	600	PPIC	150	B125	
S8.1	42.700	41.700	600	PPIC	150	B125	Stub (I.L. To Be Confirmed)
S8.2	42.800	41.500	600	PPIC	150	B125	
S9	45.100	44.000	600	PPIC	150	B125	
S10	47.000	45.700	600	Tegra	225	B125	
S11	47.000	45.355	600	Tegra	300	C250	Stub (I.L. To Be Confirmed)
S12	45.500	44.500	475	PPIC	100	C250	
S13	45.500	41.982	600	Tegra	300	C250	
S14	47.400	45.600	1200	CRCP	300	C250	
S14.1	47.000	46.350	600	Tegra	225	C250	Stub (I.L. To Be Confirmed)
S14.2	47.000	46.273	600	Tegra	225	C250	
S14.3	47.000	46.178	600	Tegra	225	C250	
S14.4	47.000	46.039	600	Tegra	225	C250	
S14.5	47.000	46.000	600	Tegra	225	C250	Stub (I.L. To Be Confirmed)
S14.6	47.000	45.965	600	Tegra	225	C250	
S15	48.100	45.505	1200	CRCP	300	C250	
S16	48.500	45.445	1200	CR	300	D400	
S17	48.300	46.389	1200	CR	150	D400	Stub (I.L. To Be Confirmed)
S18	48.400	45.913	1200	CR	150	D400	
S19	46.800	41.456	1200	CR	150	D400	
S20	43.900	40.929	1200	CR	150	D400	
S21	43.000	40.758	1200	CR	150	D400	
NOTES							
C.R.	Concrete ring manhole see std. detail D1 or D15.						
P.P.I.C.	Polypropylene Inspection Chamber see std. detail D13.						
Tegra	Tegra Inspection Chamber see std. detail D49.						
X	600 sq. Medium duty recessed, air-tight, screw-down cover and frame eg Broadstel						
D400	600sq. Heavy duty, ductile iron, cover and frame to BS EN 124 D400						
C250	600sq. Medium duty, ductile iron, cover and frame to BS EN 124 C250						
B125	600sq. Light duty, ductile iron, cover and frame to BS EN 124 B125						
	C proprietary light duty cover and frame						
ALL COVER LEVELS ARE APPROXIMATE.							

Project Title:		Town Centre West					
Project No.:		2021-189					
Foul Water							
M.H	Cover level	Invert level	Size	Type	Largest pipe	Cover type	Notes
No.							
F1	46.800	45.550	1200	CR	150	C250	Ex stub I.L. to be confirmed
F2	46.800	46.100	475	PPIC	150	C250	
F3	46.800	46.100	475	PPIC	150	C250	
F4	46.800	46.022	475	PPIC	150	C250	
F4A	46.900	45.903	475	PPIC	150	C250	Ex stub I.L. to be confirmed
F4B	46.900	45.880	475	PPIC	150	C250	
F5	46.800	45.708	475	PPIC	150	C250	
F6	46.800	46.100	475	PPIC	150	C250	
F7	46.800	46.060	475	PPIC	150	C250	Ex stub I.L. to be confirmed
F8	46.800	45.999	475	PPIC	150	C250	
F8A	46.800	45.902	475	PPIC	150	C250	
F9	46.800	45.647	475	PPIC	150	C250	
F10	46.500	45.231	1200	CR	150	D400	Ex stub I.L. to be confirmed
F11	45.450	44.800	475	PPIC	150	C250	
F12	45.450	43.500	600	Tegra	150	C250	
F12A	44.125	42.261	1200	CR	150	C250	
F13	44.200	42.165	1200	CR	150	C250	Ex stub I.L. to be confirmed
F14	44.200	42.104	1200	CR	150	C250	
F15	44.675	43.925	475	PPIC	150	C250	
F16	44.100	42.038	1200	CR	150	C250	
NOTES							
C.R. - Concrete ring manhole see std. detail D1 or D15.							
P.P.I.C. - Polypropylene Inspection Chamber see std detail D13							
A.C. - Plastic Access Chamber							
Tegra - Tegra Inspection Chamber see std detail D49.							
X 600 sq. Medium duty recessed, air-tight, screw-down cover and frame eg Broadstel							
D400 - 600sq. Heavy duty, ductile iron, cover and frame to BS EN 124 D400							
C250 - 600sq. Medium duty, ductile iron, cover and frame to BS EN 124 C250							
B125 - 600sq. Light duty, ductile iron, cover and frame to BS EN 124 B125							
C proprietary light duty cover and frame							

LEGEND

Surface Water Manhole and Sewer

Existing SW Manhole and Sewer

SW from future phase

S/S S/S Suspended surface drainage

S/S S/S Foul drainage suspended below ground floor slab / above basement

Permeable paving

G1 Ground floor balcony gully

B1 Downpipe at ground floor balcony picking up all balconies above.

- © This drawing and the building works depicted are the copyright of the Engineer and may not be reproduced except by written permission.
- NOTES.**
- This drawing is to be read in conjunction with all relevant Architect's, Engineer's, Specialists details and the Specification.
 - All surface water pipes sizes as stated.
 - All foul water pipes sizes as stated.
 - All drainage pipes to BS EN 295 (clayware) or BS EN 1401 (plastic) U.N.O. Other materials may be permitted subject to the approval of the Engineer.
 - Pipes to BS EN 295 with more than 900mm cover between pipe soffit and finished surface to be in Type 'B' bedding. Pipes to BS EN 1401 with more than 900mm between pipe soffit and finished surface to be in Type 'S' bedding.
 - All pipes under external paved areas with less than 900mm cover to be in Type 'A5' bedding.
 - All manholes, trenches, culverts etc. to be backfilled with imported granular fill to Class 6F1 (capping material) compacted to a maximum of 95% of maximum dry density of BS-1377: Part 4 (Vibrating Hammer method).
 - The Contractor is responsible for ensuring that full and adequate temporary works are provided to maintain safety and stability of the existing structure whilst the new works are being carried out. The propping is to remain in position until such time that the new works can adequately sustain the intended loads. Details of the proposed temporary works are to be forwarded to the Engineer for comment prior to commencement of works being carried out. Reference should also be made to Nolan Associates Standard detail - Pipes near buildings. (D22)
 - Polypropylene Access Chambers (denoted A.C.) are to be no deeper than 600mm.
 - Pipe Gradients:

Pipes are to be laid to the levels and gradients shown. Pipe branches are to be laid no flatter than the following table:

	100#	150#
Gullies, sinks and basins	1:40	1:40
Pipes draining 1 or more WC's	1:80	—
Pipes draining 5 or more WC's	1:80	1:150
 - For Manhole covers see schedule.
 - The Contractor is to enter into all necessary legal agreements with the drainage authority for all connections to the Public Sewer Network.
 - The Contractor is to survey all drainage outfalls and determine the levels of any Utility Apparatus that might affect the levels of drainage connections, prior to commencing any drainage works on site.
 - The Contractor is to obtain the consent of the Highway Authority to any works within the highway and enter into any necessary legal agreements.
 - Rising main to be BS EN 13244-2, all joints electrofusion welded to provide continuous main.
- Stub levels are based on Atkins as-built drawings and to be confirmed prior to any works commencing.

Pop-ups and RWP's to be confirmed by specialist design. Suspended drainage routes are shown indicatively and to be confirmed by M&E consultant. All drainage routes, manholes and levels in-abeysance pending pop-up confirmation.

IMPORTANT NOTE:
BLOCK 1 AND HIGHWAY DRAINAGE ONLY ISSUED FOR CONSTRUCTION.
THE HIGHWAY DRAINAGE HAS NOT BEEN APPROVED BY HILLINGDON COUNCIL AND ST MODWEN HOMES CAN PROCEED AT RISK. NOLAN ASSOCIATES CAN ACCEPT NO RESPONSIBILITY FOR ANY DISCREPANCIES WITH HILLINGDON COUNCIL, BLOCK 2 AND 3 IN-ABEYANCE AND TO BE CONFIRMED

NOLAN ASSOCIATES

CONSTRUCTION DRAWING

C7 Block 1 drainage revised. Block 2 outfall adjusted.

C6 Block 2 drainage revised. Podium drainage removed.

C5 Levels added to block 3 external car parking. Drainage levels revised.

C4 Drain run S2.4 to S2.5 levels revised.

C3 Drainage in highway issued for construction.

B Drainage revised to suit suspended mark-up by DRH. Construction issue (block 1 only).

A Services added. Drainage revised to suit suspended mark-up by DRH. Construction issue (block 1 only).

P2 Drainage revised to suit pop-ups.

P1 Preliminary issue.

REV DESCRIPTION BY CHKD DATE

MH JUG 05.05.22

MH JUG 12.04.22

MH JUG 24.03.22

MH JUG 22.02.22

MH JUG 14.02.22

MH JUG 03.02.22

— — 16.12.21

MH JUG 02.11.21

MH JUG 30.09.21

Uxbridge – Town Centre West

Drainage Layout

NOLAN ASSOCIATES

CONSULTING CIVIL & STRUCTURAL ENGINEERS

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TEL: 0121-454 3099 FAX: 0121-454 3059

E-MAIL: enquires@nolanassociates.co.uk

Drawn by

Date

Plot Date

Scale

MH

09.07.21

05.05.22

1:250#A0

Checked by

Project No

Dwg No

JUG

2021-189

100

C7

Bim Ref: R9110-NOL-21-ZZ-DR-C-0100