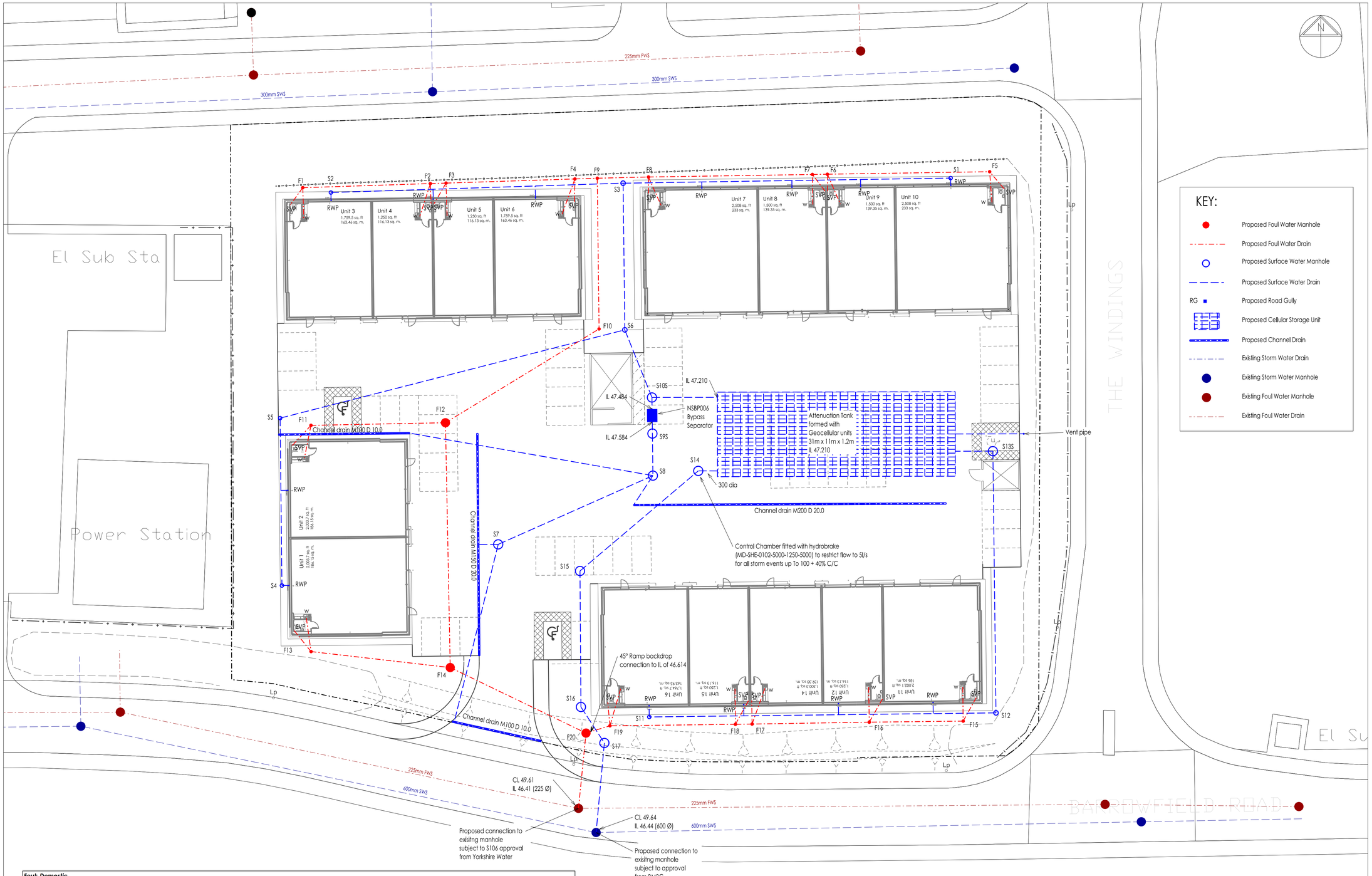


KEY:

- Proposed Foul Water Manhole
- Proposed Foul Water Drain
- Proposed Surface Water Manhole
- Proposed Surface Water Drain
- RG — Proposed Road Gully
- Proposed Cellular Storage Unit
- Proposed Channel Drain
- Existing Storm Water Drain
- Existing Storm Water Manhole
- Existing Foul Water Manhole
- Existing Foul Water Drain

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Contractors must verify all dimensions, levels and co-ordinates at the site before commencing any work or making any shop drawings; no dimensions to be taken from drawing.

NOTES:

1. Prior to commencement on site Contractor to to check inverts and size of existing drains and inform the Engineer of any discrepancies with details indicated on this drawing.
2. All drainage to be constructed in accordance with the requirements of the current issue of Building Regulations Document H.
3. All foul connections to be 100/110mm dia. unless stated otherwise.
4. All rwp connections to be 100/110mm dia. (Architect to confirm)
5. All foul and surface water pipe runs to use clayware or upvc pipes and fittings to BS EN 295 or BS EN 1401 and BS EN 4660:2000 respectively.
6. 300mm dia surface water pipe runs to use clayware, upvc or concrete pipes and fittings to BS EN 295, BS EN 1401 and BS EN 4660:2000 or BS EN 1916:2002 respectively
7. All pipework to be tested before backfilling.
8. Where pipes pass through walls/foundations provide rocker pipe.
9. Attenuation tank (31.0 x 11.0 x 1.2m) to be formed in Wavin Aquacell Core modular geocellular units (1.0(l) x 0.5(w) x 0.4(d) wrapped in impermeable geomembrane (membrane and geotextile) or similar approved.
10. Channel drains to be ACO Multidrain M100 D 10.0, M150 D 20.0 or M200 D 20.0 as shown with Class D400 gratings or similar approved .

Rev	Description	Drn	Vf'd	Date
P5	Schedules updated, vent pipe added	JW	PAE	29/08/19
P4	Foul connections amended, Gully replaced with ACO.	JW	PAE	16/08/19
P3	Schedules added, minor revisions to layout	JW	PAE	02/08/19
P2	Drainage amended following comments from client	JW	PAE	04/19
P1	Initial Issue - Planning Submission	KK	CM	12/18

As outlined in section 2.3 of the CITB Industry Guidance to Designers, insignificant risks can usually be ignored, as can risks arising from routine construction activities, unless the design compounds or significantly alters these risks. In accordance with CDM Regulations 8, 9 and 11, any significant risks relating to the design features shown on this drawing have been identified and are annotated thus: [I]

☒ No significant risks have been identified.

☐ Significant risks have been identified - refer to notes on drawing for information on residual risks and any control measures to be employed.

Refer to the current Designer's Risk Assessment sheets for further details.

Designer's Signature KK Date 12/2018

Drawing Status: REVIEW AND COMMENT

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Project: Proposed Development
Former Hickleton Colliery
Thurnscoe
Barnsley

Client: Priority Space (Hickleton) Ltd.

Title: Drainage Layout

WmS Project Ref.	Drawn	Date	Scale
11525	KK	12/2018	1:250 @ A1

Drawing/Document Reference

Project	Originator	Zone	Level	Type	Role	Number	Status	Rev.
11525	WMS	ZZ	XX	DR	C	39201	S3	P5

Foul: Domestic

MH Ref:	Cover Level	Invert Level	MH Depth	MH Material	MH Size	MH Cover	Pipe Ref:	Upstream IL	Downstream IL	Pipe Dia	Distance	Pipe Gradient 1:X	Pipe Material
F1	49.540	48.590	0.950	Plastic	450 UIC	B125	F1-F2	48.590	48.376	100	16.630	78	Clay/Plastic
F2	49.540	48.376	1.164	Plastic	450 UIC	B125	F2-F3	48.376	48.349	100	2.044	76	Clay/Plastic
F3	49.540	48.349	1.191	Plastic	450 UIC	B125	F3-F4	48.349	48.138	100	16.793	80	Clay/Plastic
F4	49.540	48.138	1.402	Plastic	450 NIC	B125	F4-F9	48.138	48.095	100	2.918	68	Clay/Plastic
F5	50.190	49.240	0.950	Plastic	450 UIC	B125	F5-F6	49.240	48.965	100	21.137	77	Clay/Plastic
F6	50.190	48.965	1.225	Plastic	450 NIC	B125	F6-F7	48.965	48.940	100	1.955	78	Clay/Plastic
F7	50.190	48.940	1.250	Plastic	450 NIC	B125	F7-F8	48.940	48.666	100	21.359	78	Clay/Plastic
F8	50.190	48.666	1.524	Plastic	450 NIC	B125	F8-F9	48.666	48.095	100	6.669	12	Clay/Plastic
F9	49.540	48.095	1.445	Plastic	450 NIC	B125	F9-F10	48.095	47.849	100	19.622	80	Clay/Plastic
F10	49.690	47.849	1.841	Plastic	450 NIC	B125	F10-F12	47.849	47.555	100	23.443	80	Clay/Plastic
F11	49.390	48.540	0.850	Plastic	450 UIC	D400	F11-F12	48.540	47.555	100	17.522	18	Clay/Plastic
F12	49.465	47.555	1.910	Concrete	1200	D400	F12-F14	47.555	47.156	100	31.884	80	Clay/Plastic
F13	49.365	48.615	0.750	Plastic	450 UIC	B125	F13-F14	48.615	47.156	100	18.249	13	Clay/Plastic
F14	49.535	47.156	2.379	Concrete	1200	B125	F14-F20	47.156	46.614	100	19.640	36	Clay/Plastic
F15	49.790	49.120	0.670	Plastic	450 UIC	B125	F15-F16	49.120	48.640	100	12.232	25	Clay/Plastic
F16	49.790	48.640	1.150	Plastic	450 UIC	B125	F16-F17	48.640	48.447	100	15.269	79	Clay/Plastic
F17	49.790	48.447	1.343	Plastic	450 NIC	B125	F17-F18	48.447	48.420	100	2.170	80	Clay/Plastic
F18	49.790	48.420	1.370	Plastic	450 NIC	B125	F18-F19	48.420	48.199	100	16.351	74	Clay/Plastic
F19	49.790	48.199	1.591	Plastic	450 NIC	B125	F19-F20	48.199	48.158	100	3.256	79	Clay/Plastic
F20	49.750	46.564	3.186	Concrete	1200	B125	F20-ExMH	46.564	46.485	150	9.852	125	Clay/Plastic

Surface Water : Domestic

MH Ref:	Cover Level	Invert Level	MH Depth	MH Material	MH Size	MH Cover	Pipe Ref:	Upstream IL	Downstream IL	Pipe Dia	Distance	Pipe Gradient 1:X	Pipe Material
S1	50.190	49.490	0.700	Plastic	450 UIC	B125	S1-S3	49.490	48.522	225	42.679	44	Clay/Plastic
S2	49.540	48.840	0.700	Plastic	450 UIC	B125	S2-S3	48.840	48.522	225	38.086	120	Clay/Plastic
S3	50.050	48.522	1.528	Plastic	R600	B125	S3-S6	48.522	48.143	225	19.099	50	Clay/Plastic
S4	49.365	48.715	0.650	Plastic	450 UIC	B125	S4-S5	48.715	48.528	150	21.795	117	Clay/Plastic
S5	49.460	48.528	0.932	Plastic	450 UIC	D400	S5-S6	48.528	48.218	150	46.358	150	Clay/Plastic
S6	50.190	48.143	2.047	Plastic	R600	B125	S6-S10S	48.143	47.518	225	9.491	15	Clay/Plastic
S7	49.400	47.875	1.525	Concrete	1200	D400	S7-S8	47.875	47.728	300	22.048	150	Conc/Clay/Plastic
S8	49.670	47.728	1.942	Concrete	1200	D400	S8-S9S	47.728	47.628	300	5.475	55	Conc/Clay/Plastic
S9S	49.760	47.628	2.132	Concrete	1200 (sump)	D400	S9S-OS	47.628	47.584	300	1.500	34	Conc/Clay/Plastic
S10S	49.930	47.443	2.487	Concrete	1200 (sump)	D400	S10S-AT	47.443	47.21	300	8.500	36	Conc/Clay/Plastic
S11	49.790	49.065	0.725	Plastic	450 UIC	B125	S11-S12	49.065	48.722	225	45.173	132	Clay/Plastic
S12	49.790	48.722	1.068	Plastic	R600	B125	S12-S13S	48.722	48.494	225	34.076	149	Clay/Plastic
S13S	49.725	48.494	1.231	Concrete	1200 (sump)	D400	S13S-AT	48.494	48.185	225	4.894	16	Clay/Plastic
S14	49.685	47.160	2.525	Concrete	Control	D400	S14-S15	47.160	47.052	225	20.183	187	Clay/Plastic
S15	49.825	47.052	2.773	Concrete	1200	D400	S15-S16	47.052	46.957	225	17.703	186	Clay/Plastic
S16	49.750	46.957	2.793	Concrete	1200	B125	S16-S17	46.957	46.927	225	5.593	186	Clay/Plastic
S17	49.750	46.927	2.823	Concrete	1200	B125	S17-ExMH	46.927	46.815	225	11.708	105	Clay/Plastic