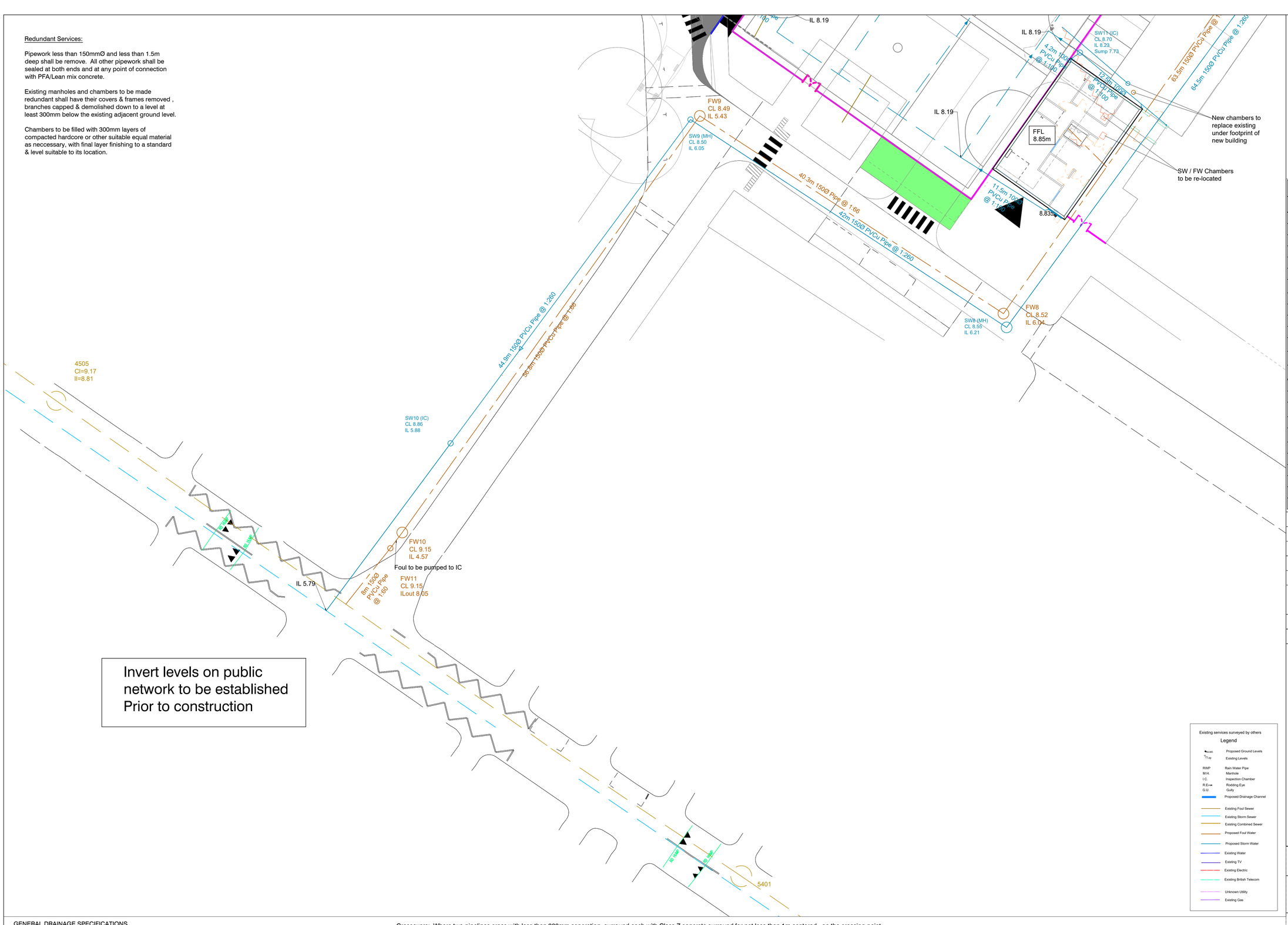
Redundant Services:

Pipework less than 150mmØ and less than 1.5m deep shall be remove. All other pipework shall be sealed at both ends and at any point of connection with PFA/Lean mix concrete.

Existing manholes and chambers to be made redundant shall have their covers & frames removed , branches capped & demolished down to a level at least 300mm below the existing adjacent ground level.

Chambers to be filled with 300mm layers of compacted hardcore or other suitable equal material as neccessary, with final layer finishing to a standard & level suitable to its location.



Invert levels on public network to be established Prior to construction

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Do Not Scale from drawing. Only written dimensions are to be taken in respect of this project.
All dimensions are in millimetres unless otherwise stated.
The designer is to be notified immediately of any suspect omissions or discrepancies.

This drawing is to be read in conjunction with all other relevant drawings and details.

Should there be any conflict between the details indicated on this drawing and those indicated on other drawings the Designer should be notified PRIOR to construction on site.

The Contractor is responsible for ensuring that all works are to the satisfaction of the Designer.

All workmanship is to be constructed in accordance with current Building Regulations.

All levels are in relation to Ordnance Datum, unless otherwise stated.

Foul & Surface Water Chambers

Designation	Cover Level	Invert Level In	Invert Level Out	Depth	Chamber Type	Cover Grade
SW1 (RE)	8.60	-	8.08	0.52	Rodding Eye	B125
SW2 (IC)	8.60	7.53	7.45	1.15	IC 600Ø	B125
SW3 (MH)	8.60	6.88	6.81	1.79	MH 1200Ø	B125
SW4 (IC)	8.60	7.13	7.13	1.47	IC 600Ø	B125
SW5 (IC)	8.60	7.67	7.59	1.01	IC 600Ø	B125
SW6 (RE)	8.735	-	8.08	0.66	Rodding Eye	B125
SW7 (MH)	8.60	6.46 Silt Trap 5.96	6.46	2.64	MH 1200Ø	B125
SW7a (IC)	8.43	6.62	6.62	1.81	IC 600Ø	B125
SW8 (MH)	8.55	6.21	6.21	2.34	MH 1200Ø	D400
SW9 (IC)	8.50	6.05	6.05	2.45	IC 600Ø	D400
SW10 (IC)	8.86	5.88	5.88	2.98	IC 600Ø	B125
SW11 (IC)	8.70	8.23 Silt Trap 7.73	8.23	1.04	IC 600Ø	B125
SW12 (IC)	8.55	8.23 Silt Trap 7.73	8.23	0.82	IC 600Ø	B125
SW13 (IC)	8.58	8.22 Silt Trap 7.72	8.22	0.88	IC 600Ø	B125
FW1 (RE)	8.60	-	8.22	0.38	Rodding Eye	B125
FW2 (IC)	8.60	7.74	7.74	0.86	IC 450Ø	B125
FW3 (MH)	8.67	7.05 7.70	7.00	2.34	MH 1200Ø	B125
FW4 (RE)	8.60	-	8.22	0.38	Rodding Eye	B125
FW5 (IC)	8.71	7.72 7.22	7.17	1.54	IC 600Ø	B125
FW6 (RE)	8.69	-	8.22	0.38	Rodding Eye	B125
FW7 (IC)	8.71	7.74	7.74	0.86	IC 450Ø	B125
FW8 (MH)	8.52	6.04	6.04	2.48	MH 1200Ø	D400
FW9 (IC)	8.49	5.43	5.43	3.06	MH 1200Ø	D400
FW10 (MH)	9.15	4.57	Pump	4.58	MH 1200Ø	B125
FW11 (IC)	9.10	TBD	8.05	1.05	IC 600Ø	B125

Rev	Date	General Revision	Drwn	chkd
A	30.07.19	Infrequently trafficked Court - Inverts	JON	MC

issue for: Draft CP

ENGINEERING SURVEYING ARCHITECTURE
teicniuil-priory consulting engineers

Client: Extraspace

Project Title: Collis Primary School

Drwg Title: Drainage Plans - Storm & Foul

Drwn by: JON		**Date** July 19	
chckd by: M.C		**Date** July 19	
Job No: 23-19	**Scale** 1:200		**paper size** A1
Drwg No: 23-19-0-801	**Ref**	**Sheet**	**Rev** A

GENERAL DRAINAGE SPECIFICATIONS

All drainage to comply with BS EN 12056:part 1200, BS EN 752:2008 and BS EN 1610:1998.
Drawing to be read in conjunction with working drawings for entire proposal, done by others.

All drainage pipework to be PVC-U (Wavin, or equal approved) unless otherwise specified.
All diameters quoted are nominal bore diamaters to BS8301:1985.
Saddles are not shown for clarity. All saddles must be located on upper half of pipe @ 45° to the vertical plane.
All pipework <400mm BGL (to crown of pipe)to be encased in 150mm grade C16/20 concrete, maximum aggregate 10mm , to BS EN 206-1:2006. Pipework close to foundations to be reviewed by structural engineer.

All diameters quoted are nominal bore diamaters to BS8301:1985.
Saddles are not shown for clarity. All saddles must be located on upper half of pipe @ 45° to the vertical plane.

Crossovers: Where two pipelines cross with less than 300mm seperation, surround each with Class Z concrete surround for not less than 1m centered on the crossing point.
Extend length of concrete surrounds as neccessary to within 150mm of next nearest flexible joints.
All inspection chambers, AJ's, manholes, to be suitably bedded in C16/C20 concrete to BS EN 206-1:2006.
Pipelines passing through structures: Where pipelines must be cast in or fixed to structure (incl. manholes, catchpits and inspection chambers) provide short length or rocker pipes near the external face, with flexible joint at eacj end.

Inspection chambers (PVCU) to be 450mm dia with cover size of 430mm. (Wavin or equal approved).
For depths >1.2 PVCu inspection chamber 600Ø to be used.

All covers and frame of manholes and inspection chambers to comply with EN124. Frame opening to be 600mm dia. Frame overall size to be 850mm. Frame height to be 100mm.
All pipework that connects to manholes to be provided with rocker pipes and flexible joints as close as possible to the manhole.

All drainage to comply with BS 752 and BS 13508.

Drawing to be read in conjunction with working drawings for entire proposal, done by others.

All drainage layouts / parameters to be approved by Local Authority Prior to constructioon.

Maintenance on SuDS systems required as per CIRIA SuDS Manual C753.

Regular Maintenance:
Remove sediment from pre-treatment structures / silt traps annually or as is required.
Inspect all inlets, outlets, vents, overflows, control devices etc. annually or as required.

Monitoring:
Survey inside attenuation tank for sediment build-up & remove if necessary.

Full inspection of entire system every 5 years or as required.

Operation & maintenance document & records to be maintained on site by nominated personnel.