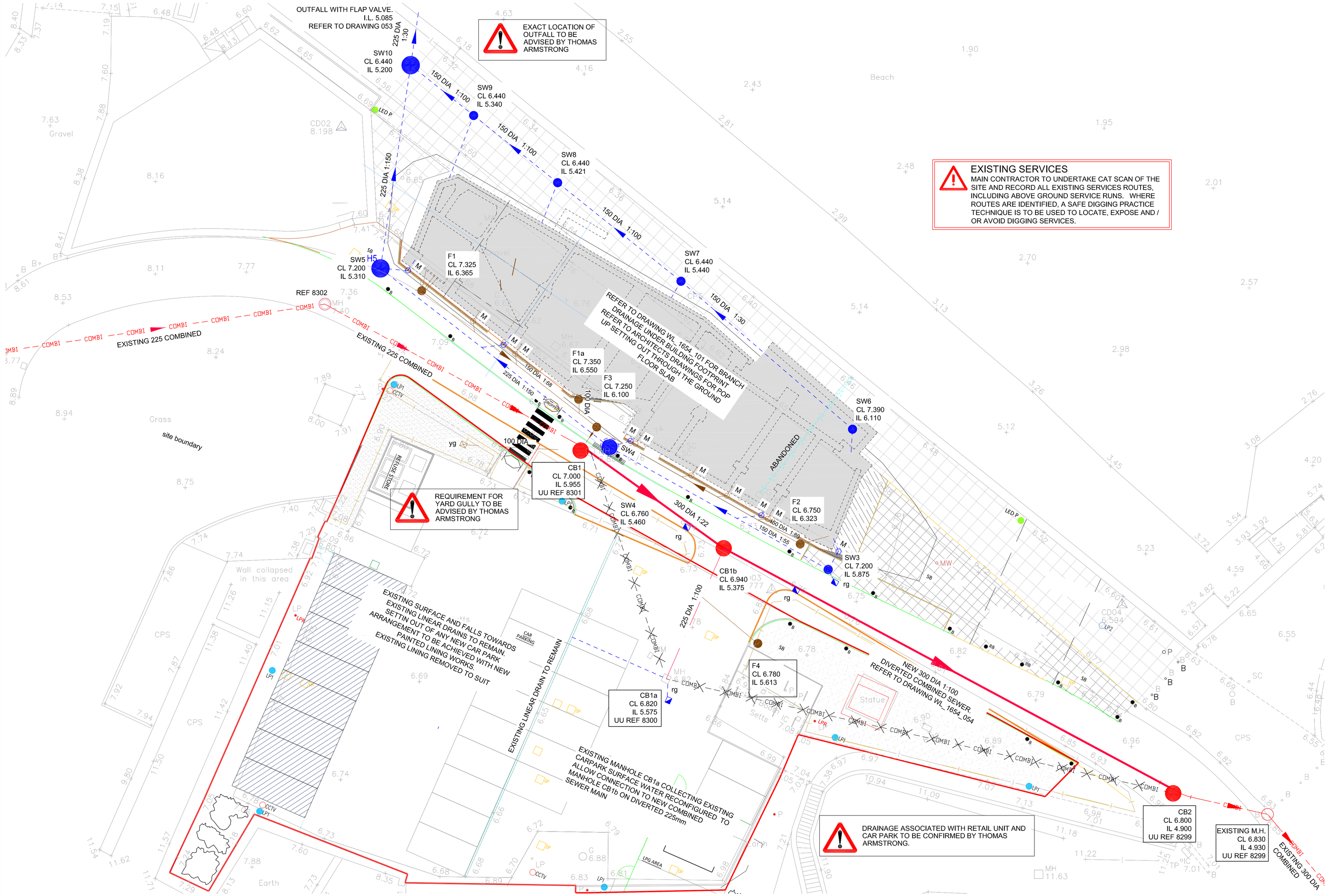

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE IN METRES, RELATIVE TO ORDNANCE DATUM SURVEY
3. ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. ANY DISCREPANCIES SHOULD BE REPORTED TO THE ENGINEER IMMEDIATELY.
6. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS AND SPECIALISTS DRAWINGS TOGETHER WITH THEIR SPECIFICATIONS.
7. DO NOT SCALE FROM THIS DRAWING, ONLY WRITTEN OR CALCULATED DIMENSIONS TO BE USED.
8. FOR GRID SET-OUT COORDINATES REFER TO ARCHITECTS DRAWINGS.

DRAINAGE NOTES

1. ALL NON ADOPTABLE DRAINS UP TO 150 Dia. TO BE TWIN WALL PLASTIC PIPE MANUFACTURED IN ACCORDANCE WITH BS EN 1401-1OR EQUAL APPROVED.
2. ALL ADOPTABLE DRAINS UP TO 300 Dia. TO BE 'POLYSEWER' BY 'POLYPIPE' AND MANUFACTURED IN ACCORDANCE WITH THE WATER INDUSTRY SPECIFICATION WIS-4-35-01.
3. DRAINS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS. BACKFILL AND BEDDING TO AS PER TYPICAL DETAIL U.N.O.
4. ALL DRAINS TO BE LAID SOFFIT TO SOFFIT. AND THE EXACT POSITIONS OF ALL DRAINS MAY BE DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY REVISIONS ARE TO BE SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING INSPECTOR.
5. WORKS TO ANY ADOPTED SERVICES ARE TO BE IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 7th EDITION AND SHOULD BE APPROVED WITH UNITED UTILITIES PRIOR TO COMMENCEMENT.
6. NEW INSPECTION CHAMBERS (IC) TO BE A MINIMUM OF 450mm DIA. ALL MANHOLES (MH) TO BE A MINIMUM OF 1200mm DIA. REFER TO M.H. SCHEDULE FOR ACTUAL SIZES.
7. REFER TO ARCHITECTS DRAWINGS FOR INTERNAL DRAINAGE 'POP UP' POSITIONS.
8. ANY DRAINS PASSING THROUGH SUBSTRUCTURE WALLS TO HAVE A MINIMUM 50mm CLEAR SPACE. RC LINTEL SUPPORT ABOVE & CEMENT FIBRE COLLARS EITHER SIDE TO PREVENT VERMIN ENTRY
9. ANY DRAINS CAST IN & PASSING THROUGH CONCRETE GROUND BEAMS TO HAVE A FLEXIBLE JOINT NOT MORE THAN 150mm FROM THE FACE OF THE GROUND BEAM. (FLEXIBLE JOINT TO MANUFACTURERS DETAILS) AND A MAXIMUM 600mm LONG ROCKER PIPER EITHER SIDE
10. ALL LINES OF DRAINAGE INDICATED ARE PROVISIONAL ONLY. THE EXACT POSITIONS OF ALL DRAINS MAY BE ALTERED TO SUIT AND DETERMINED ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY REVISIONS ARE TO BE SUBJECT TO THE APPROVAL OF THE LOCAL BUILDING INSPECTOR. AN ACCURATE RECORD OF ANY AMENDMENT IS TO BE KEPT BY THE CONTRACTOR.
11. WHERE DRAIN IS WITHIN 1m OF A BUILDING, THE TRENCH IS FILLED WITH CONCRETE UP TO THE UNDERSIDE OF THE FOUNDATIONS.
12. COVER LEVELS SHOWN ARE APPROXIMATE ONLY AND SHOULD BE ALTERED TO SUIT FINISHED SURFACE LEVELS. READ IN CONJUNCTION WITH THE MANHOLE SCHEDULE
13. ALL SOIL AND VENT PIPES TO HAVE LOW LEVEL ACCESS PLATES.
14. ALL BURIED CONNECTIONS TO POP-UPS TO BE 150mm Dia.
15. ALL FLOWS FROM THE SURFACE WATER SYSTEM ARE UNRESTRICTED IN LINE WITH EXISTING FLOOD RISK ASSESSMENT COMPLETED BY THOMASONS DATED 21st JUNE 2019

SURFACE WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	MAIN INLET		MAIN OUTLET		SILTPIT	DEPTH TO SOFFIT	DEPTH TO INVERT	CHAMBER TYPE	MIN. INTERNAL CHAMBER SIZE	MIN. CLEAR OPENING SIZE	COVER CLASS
		INVERT LEVEL (m)	PIPE DIA (mm)	INVERT LEVEL (m)	PIPE DIA (mm)	INVERT LEVEL (m)						
		-	-			-						
SW3	7.200	5.875	150	5.875	150	-	1175	1325	P.P.I.C.	450Ø	450Ø	B125*
SW4	6.760	5.535	150	5.460	225	-	1075	1300	P.C.C.	900Ø	600x600	D400
SW5	7.200	5.310	225	5.310	225	-	1665	1890	P.C.C.	900Ø	600x600	D400
SW10	6.440	5.200	225	5.200	225	-	1300	1450	P.C.C.	900Ø	600x600	D400
OUTFALL	-	5.085	225	-	-	-	-	-	-	-	-	-
SW6	7.390	-	-	6.110	150	-	1020	1170	P.P.I.C.	450Ø	450Ø	B125*
SW7	6.440	5.540	150	5.540	150	-	750	900	P.C.C.	900Ø	600x600	D400
SW8	6.440	5.421	150	5.421	150	-	869	1019	P.C.C.	900Ø	600x600	D400
SW9	6.440	5.340	150	5.340	150	-	950	1100	P.C.C.	900Ø	600x600	D400
SW10	-	5.200	150	-	-	-	-	-	-	-	-	-

FOUL WATER MANHOLE SCHEDULE

MH REF	COVER LEVEL (m)	MAIN INLET		MAIN OUTLET		SILTPIT	DEPTH TO SOFFIT	DEPTH TO INVERT	CHAMBER TYPE	MIN. INTERNAL CHAMBER SIZE	MIN. CLEAR OPENING SIZE	COVER CLASS
		INVERT LEVEL (m)	PIPE DIA (mm)	INVERT LEVEL (m)	PIPE DIA (mm)	INVERT LEVEL (m)						
F1	7.325	-	-	6.365	150	-	810	960	P.P.I.C.	450Ø	450Ø	B125*
F3	7.300	6.100	150	6.100	150	-	1050	1200	P.P.I.C.	450Ø	450Ø	B125*
CB1	6.800	6.105	150	-	-	-	-	-	-	-	-	-
F2	7.350	-	-	6.350	150	-	850	1000	P.P.I.C.	450Ø	450Ø	B125*
F3	-	6.100	150	-	-	-	-	-	-	-	-	-
F1a	7.350	-	-	6.550	100	-	700	800	P.P.I.C.	450Ø	450Ø	B125*
						-						
F4	6.780			5.600	150	-	1130	1167	P.P.I.C.	450Ø	450Ø	B125*

COMBINED SEWER CB1a to CB1b (CB1 to CB3 SEE DRG 054)

CB1a	6.820	5.575	-	5.575	225	-	1.020	1245	existing	existing	existing	existing
CB1b	6.940	5.450	225	REFER TO DRAWING WL_1654_054								

KEY:

- PROPOSED 900mmØ PRECAST CONCRETE RING SURFACE WATER MANHOLE
- PROPOSED 450mmØ SURFACE WATER POLYPROPYLENE INSPECTION CHAMBER
- PROPOSED 450mmØ SURFACE WATER POLYPROPYLENE INSPECTION CHAMBER
- M — MINI ACCESS CHAMBER. REFER TO DRAWING WL_1654_101
- yg — PROPOSED YARD GULLY
- rg — ROAD GULLY..POSITION TO BE CONFIRMED
- rwp — EXTERNAL RWP POSITION TO BE CONFIRMED

- PROPOSED SURFACE WATER NETWORK
- PROPOSED SURFACE WATER LINEAR DRAIN
- PROPOSED FOUL WATER NETWORK
- LENGTH OF NEW COMBINED NETWORK FOLLOWING ABANDONMENT OF EXISTING SECTION
- COMBI — EXISTING COMBINED SYSTEM TO BE ABANDONED
- COMBI — EXISTING COMBINED SYSTEM TO BE MAINTAINED

P.P.I.C. = POLY PROPLENE INSPECTION CHAMBER AS PER TYPE 3 DETAIL DRAWING WL_1654_052
P.C.C. = PRE CAST CONCRETE RING MANHOLE AS PER TYPE 2 DETAIL DRAWING WL_1654_052

Rev	Date	Revision Details	By	Chkd	Appd
C4	24.05.23	MINOR UPDATES 2No GULLIES ADDED	SAS	EZ	SR
C3	21.02.22	COMBINED SEWER DIA INCREASED TO 300mm DIA, INVERTS ADJUSTED TO SUIT	SAS	EZ	SR
C2	21.12.21	ISSUED FOR CONSTRUCTION	SAS	GA	SR
C1	14.12.21	ISSUED FOR CONSTRUCTION	SAS	EZ	SR
P3	19.11.21	PRELIMINARY ISSUE	SAS	EZ	SR
P2	02.11.21	PRELIMINARY ISSUE	SAS	EZ	SR
P1	25.02.21	PRELIMINARY ISSUE	EZ	GE	SR

Westlakes Engineering

Client: WHITEHAVEN HARBOUR COMMISSIONERS

Project: THE EDGE, WHITEHAVEN
CUMBRIAS COASTAL ACTIVITIES CENTRE

Title: PROPOSED DRAINAGE GENERAL ARRANGEMENT

Drawing No.: WL_1654_051
Revision: C4

Scale: 1:150 | Date: FEB 2021
Drawn: EZ | Chk: GE | App: SR

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Do not scale this drawing