

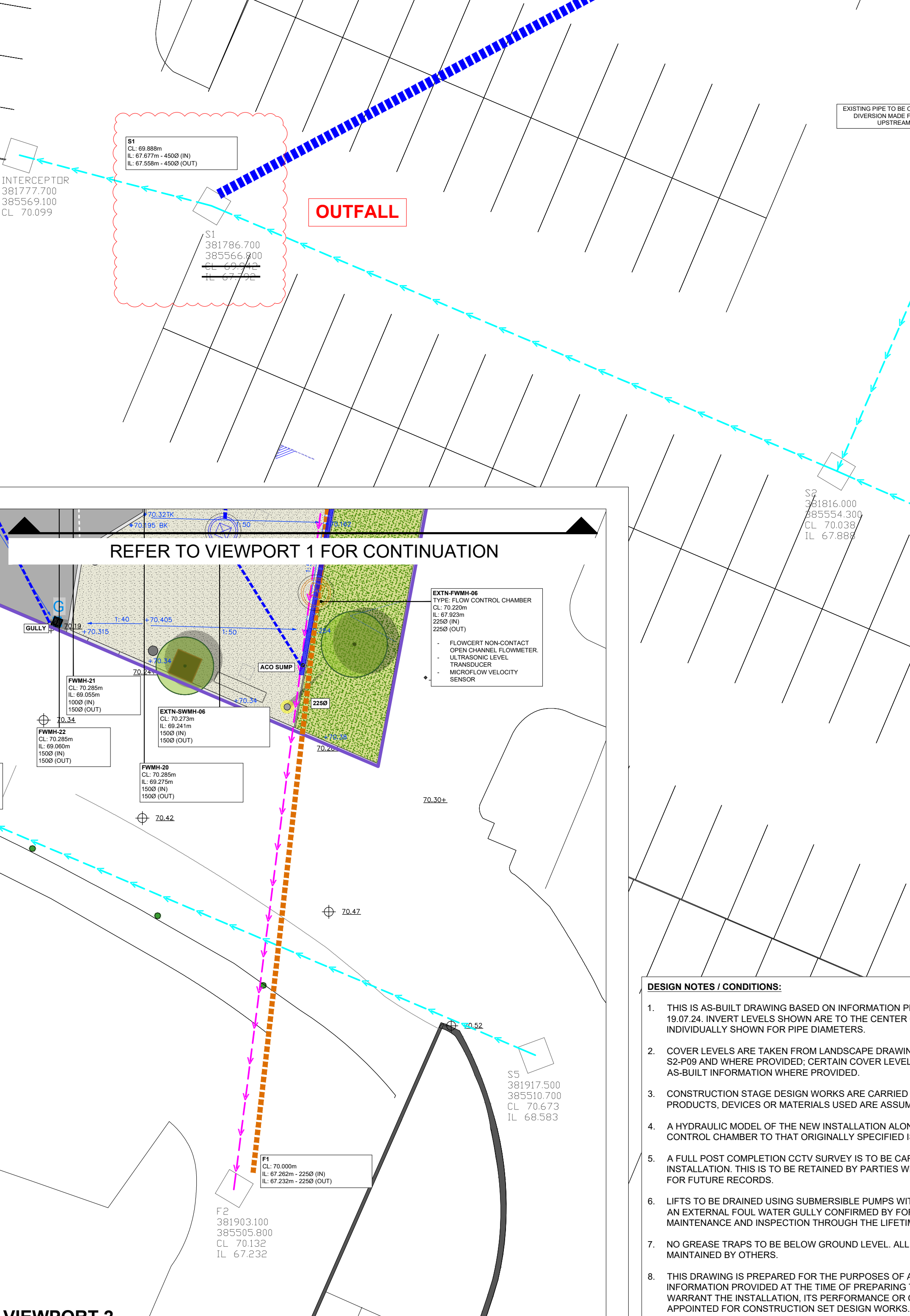
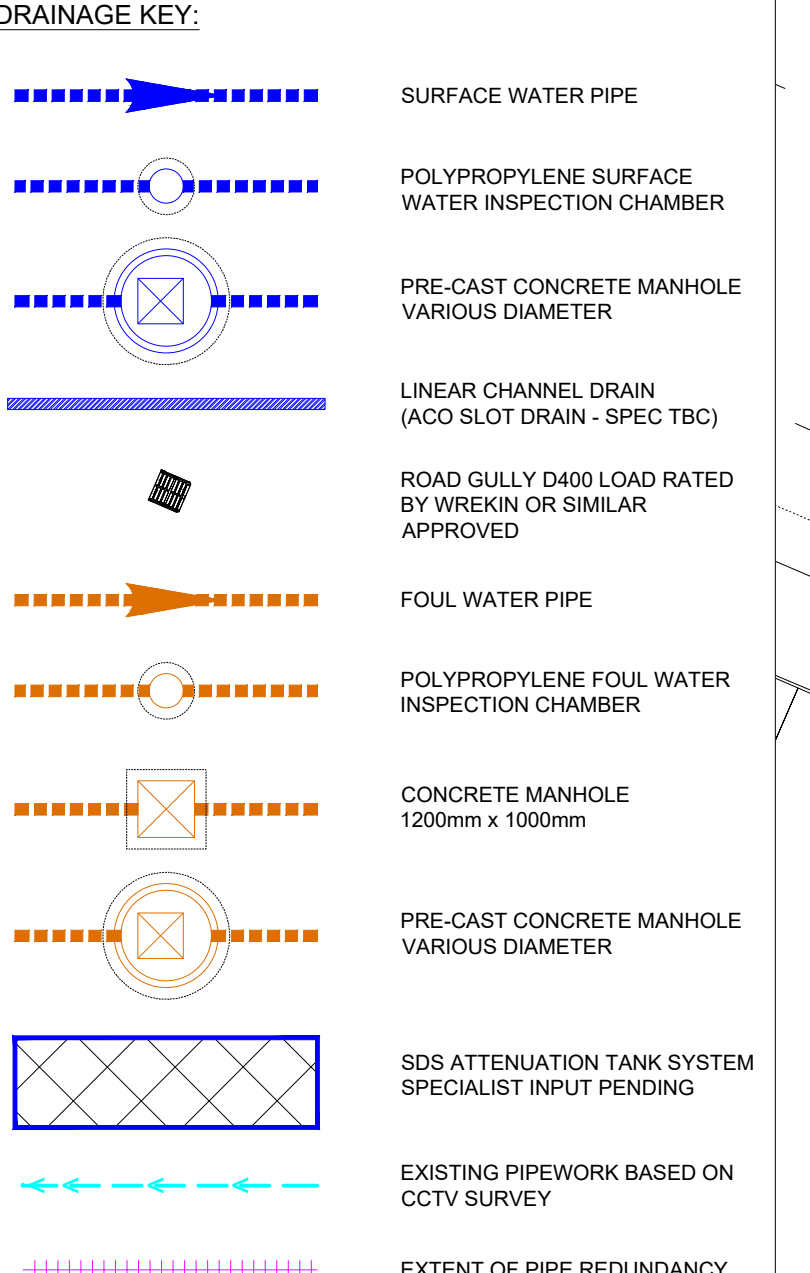
Reference No.	Manhole Size (mm)	Material	Cover Type	Size (mm)	Load Grade	Note
FWMH-01	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-02	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-03	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-04	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-05	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-06	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-07	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-08	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-09	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-10	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-11	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-12	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-13	1200x1000	CONCRETE (CAST-IN-SITU)	Recessed	750x750	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-14	1200x1000	CONCRETE (CAST-IN-SITU)	Recessed	750x750	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-15	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-16	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-17	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-18	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-19	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-20	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-21	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-22	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-23	1200x1000	CONCRETE (CAST-IN-SITU)	Recessed	750x750	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-24	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-25	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-26	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-27	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-28	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-29	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-30	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-31	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-32	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-33	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-34	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
FWMH-35	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover

Reference No.	Manhole Size (mm)	Material	Cover Type	Size (mm)	Load Grade	Note
SWMH-01	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-02	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-03	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-04	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-05	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-06	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-07	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-08	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-09	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-10	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-11	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-12	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-13	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-14	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover
SWMH-15	4500	PPIC	Recessed	450x450	C250	Recessed Access Cover - Double Sealed and Bolted Cover

Reference No.	Manhole Size (mm)	Material	Cover Type	Size (mm)	Load Grade	Note
EXTRA-FWMH-01	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-FWMH-02	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-FWMH-03	6000	PPIC	Recessed	600x600	C250	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-FWMH-04	6000	PPIC	Recessed	600x600	C250	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-FWMH-05	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-FWMH-06	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
F1	EXISTING CHAMBER (REMEDIATION WORKS WHERE REQUIRED AND MAKE GOOD NEW CONNECTIONS MADE)					

Reference No.	Manhole Size (mm)	Material	Cover Type	Size (mm)	Load Grade	Note
EXTRA-SWMH-01	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-02	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-03	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-04	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-05	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-06	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-07	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-08	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-09	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-10	12000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-11	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-12	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Recessed Access Cover - Double Sealed and Bolted Cover
EXTRA-SWMH-13	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-14	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-15	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-16	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
EXTRA-SWMH-17	18000	PRE-CAST CONCRETE	Ductile Iron Cover	600x600	D400	Heavy Duty Cover
CHAMBER DETAILS PENDING	CHAMBER DETAILS PENDING					
EXISTING CHAMBER (REMEDIATION WORKS WHERE REQUIRED AND MAKE GOOD NEW CONNECTIONS MADE)	EXISTING CHAMBER (REMEDIATION WORKS WHERE REQUIRED AND MAKE GOOD NEW CONNECTIONS MADE)					

Reference No.	Manhole Size (mm)	Material	Cover Type	Size (mm)	Load Grade	Note
NSP-15	N/A	PRE-FABRICATED UNIT	CHAMBER DETAILS PENDING			



NOTES

ALL DRAINAGE SHALL COMPLY WITH THE TYPICAL DRAINAGE CONSTRUCTION DETAILS AND THE REQUIREMENTS OF BS EN 752.

ACCESS COVERS AND FRAMES SHALL COMPLY WITH THE LOADINGS SPECIFIED AND TO BS EN 124 AND KITEMARKED OR IF RECESSED COVERS ARE SPECIFIED THEN IN ACCORDANCE WITH FACTA ASSOCIATION EQUIVALENT.

THE PROPOSED BUILDING OUTLINES SHOWN ON THIS DRAWING ARE FOR INFORMATION ONLY. REFER TO ARCHITECTS' PLANS FOR PRECISE LOCATION SETTING OUT INFORMATION AND DETAILS.

ALL DRAINAGE PIPEWORK SHOWN SHALL BE 100mm DIAMETER UNLESS NOTED OTHERWISE.

ALL UNDERSLAB DRAINAGE SHALL BE Laid AT GRADIENTS OF 1:40 MM FOR FOUL PIPEWORK AND 1:80 MM FOR SURFACE WATER UNLESS NOTED OTHERWISE.

ALL UNDERSLAB DRAINAGE SHALL BE CLEAR OF FOUNDATIONS UNLESS SHOWN OTHERWISE WITH LAMPING RADIUS BENEATH TO A MINIMUM AND USED WHERE UNAVOIDABLE.

AT LEAST ONE SOIL PIPE AT THE HEAD OF EACH FOUL RUN SHALL BE VENTED TO THE ATMOSPHERE.

ALL GUTTERS SHALL BE FITTED WITH A LEAF FILTER AT EACH OUTLET TO REDUCE THE RISK OF BLOCKAGE.

ALL RAINWATER DOWNPIPES SHALL BE ACCESSIBLE ABOVE GROUND FOR REDDING PURPOSES.

ANY PART OF THE EXISTING DRAINAGE SYSTEM TO BE RETAINED AS PART OF THE NEW SCHEME SHALL BE CLEANED AND INSPECTED BY CCTV SURVEY. ANY STRUCTURAL DEFECTS SHALL BE REPAIRED OR REPLACED AS MAY BE REQUIRED USING APPROPRIATE AND APPROVED METHODS.

WHERE EXISTING ACCESS LOCATIONS ARE TO BE RETAINED THE COVER AND FRAMES SHALL BE CHECKED TO ENSURE THEY ARE OF A SUITABLE DUTY FOR REUSE AND LEVELS ADJUSTED TO SUIT PROPOSED FINISHED GROUND LEVELS.

ALL INTERNAL AND EXTERNAL ACCESS COVERS SHALL BE RECESSED. DOUBLE SEALED AND LOCKABLE SUBJECT TO ARCHITECTS SPECIFICATION.

COVER LEVELS SHOWN ON THIS DRAWING ARE APPROXIMATE AND SHALL BE ADJUSTED TO SUIT FINISHED PAVEMENT LEVELS ON SITE BY CONTRACTOR. COVERS SHALL BE ORIENTED TO SUIT PAVEMENT FINISHES WHERE APPROPRIATE.

ALL PRIVATE DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SYSTEMS HAVE BEEN DESIGNED ON THE BASIS OF CAST IRON.

ALL EXTERNAL (OUTSIDE OF BUILDING PERIMETER) DRAINAGE PIPEWORK FOR FOUL AND SURFACE WATER SHALL BE DESIGNED ON THE BASIS OF CLAYWARE TO COMPLY WITH SEWERAGE SECTOR GUIDANCE APPROVED VERSION 1.0, INCLUDING APPENDIX C 'THE CODE' APPROVED VERSION 2.0.

CONCRETE ENCASEMENT OF THE PIPEWORK SHALL BE REQUIRED WHERE THE VERTICAL CLEARANCE BETWEEN TWO PIPES CROSSING IS LESS THAN 300MM.

ALL EXISTING DRAINAGE SHALL BE ASSUMED TO BE 'LIVE' AND SHALL BE MAINTAINED AT ALL TIMES DURING THE WORKS. EXISTING DRAINAGE SHALL BE RECONNECTED TO THE NEW DRAINAGE SYSTEM UNLESS PROVEN TO BE REDUNDANT FOR ABANDONMENT. ALL EXISTING DRAINAGE TO BE ABANDONED SHALL BE SEALED BY APPROPRIATE MEANS.

ALL DRAINAGE CONNECTING TO THE PUBLIC SEWER NETWORK SHALL NOT COMMENCE UNTIL RECEIPT OF THE APPROVAL FROM THE DRAINAGE AUTHORITY AND SHALL COMPLY WITH REQUIREMENTS USING VERIFIED CLAY PIPEWORK TO BS EN 206 WITH PLAN SLOPED OR SOCKETED FLEXIBLE JOINTS SUBJECT TO THEIR APPROVAL.

WHERE DRAINAGE WORKS ARE CARRIED OUT IN THE PUBLIC HIGHWAY THE RELEVANT NECESSARY APPROVALS AND ROAD OPENING NOTICES SHALL BE OBTAINED FROM THE HIGHWAY AUTHORITY AND UTILITY COMPANIES.

UPON COMPLETION ALL NEW DRAINAGE INSTALLATION TOGETHER WITH ANY EXISTING DRAINAGE RETAINED SHALL BE SETTED AND CCTV SURVEYED UPON COMPLETION. CONTRACTOR TO ENSURE THAT THE DRAINAGE SYSTEM IS FULLY OPERATIONAL, FREE OF EXCESS SEDIMENT AND ALL IDENTIFIED FAULTS RECTIFIED.

AN AIR TIGHTNESS TEST MUST BE PERFORMED FOR THE PIPEWORK THAT SITS WITHIN THE BUILDING TO ENSURE NO LEAKS ARE PRESENT. THE CONTRACTOR IS EXPECTED TO PROVIDE ADDITIONAL WATER TIGHTNESS MEASURES TO PIPEWORK BELOW GROUND.

HEALTH & SAFETY: FUTURE WORKS SHALL BE CARRIED OUT BY SPECIALIST COMPETENT AND EXPERIENCED CONTRACTORS. ALL OPERATIVES SHALL HAVE RECEIVED FULL AND APPROPRIATE TRAINING WITH APPROPRIATE QUALIFICATIONS FOR THE OPERATIONS THEY ARE REQUIRED TO UNDERTAKE. ALL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT HEALTH & SAFETY REGULATIONS.

UTILITIES CO-ORDINATION AND CHECKING IS REQUIRED TO BE UNDERTAKEN BY A SPECIALIST TIE ENGINEER. THE CONTRACTOR AND DESIGN TEAM IS REMINDING NOT TO USE THIS DRAWING FOR CONSTRUCTION PURPOSES UNTIL FULL CO-ORDINATION AND VERIFICATION OF ALL UTILITIES INFORMATION SHOWN ON THIS PLAN AND SECTIONS IS UNDERTAKEN. UTILITIES TO BE NOTED TO UNDERTAKE UTILITY DESIGN TEAM HAVE THE CAPACITY TO UNDERTAKE SUCH DESIGN FOR THE MAPPING OF EXISTING OR PROPOSED UTILITIES. NOT ALL UTILITY INFORMATION HAS BEEN SUPPLIED IN CAD FORMAT AND THEREFORE IT HAS BEEN TRANSCRIBED THE BEST POSSIBLE. THE UTILITY INFORMATION PRESENTED ON THIS PLAN OR SECTION IS NOT ACCURATE.

ISSUED FOR AS-BUILT INFORMATION

C22	ISSUED FOR AS-BUILT INFORMATION	27.08.24	SK
C21	ISSUED FOR AS-BUILT INFORMATION	23.08.24	SK
C20	ISSUED FOR AS-BUILT INFORMATION	22.07.24	SK
C19	ISSUED FOR APPROVAL	04.07.24	SK
Rev	Description	Date	By

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Job Title
Client
1513-SPW-Z0-00-DR-C-6000
BELOW GROUND DRAINAGE

Drawn
SK
Date
06.01.22
Scale
1:150 @ A1
Checked
SK
CAD File Name
C-6000

Job No.
1513
Drawing No.
C-6000
Revision
C22