

EXISTING DRAINAGE LAYOUT
BASED ON XPOSE SURVEYS DRAWING No. D2PL13.003
1/250

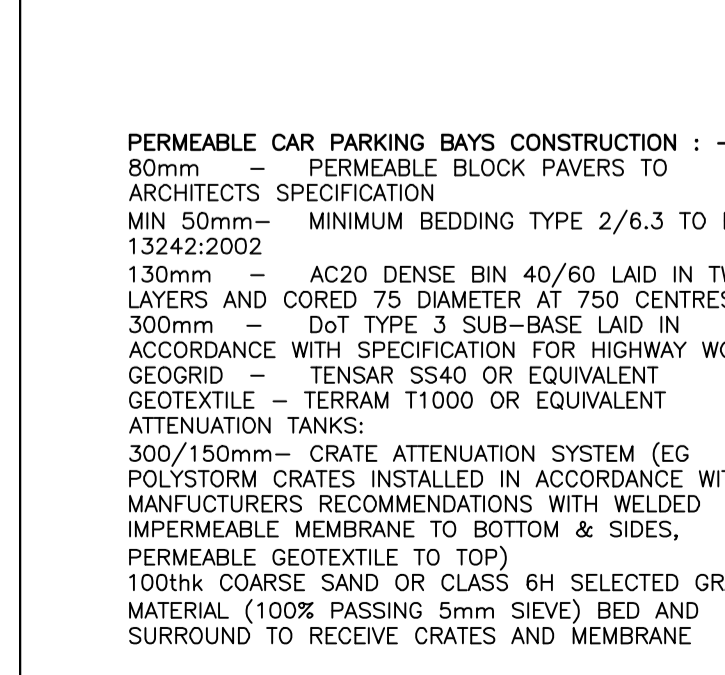
REF.	LENGTH	UP INVERT	DOWN INVERT	GRAD	BEDDING	DIA	TYPE
03-02	40m	17.240	16.740	1:80	A	150	VC
02-01	9.5m	16.740	16.580*	1:59*	A	150	VC
01-AWA	17.0m	16.580*	EXISTING	150ø FW PIPE			

REF.	LENGTH	UP INVERT	DOWN INVERT	GRAD	BEDDING	DIA	TYPE
22-02							
21-02	12.3m	16.650	16.464	1:66	A	150	VC
12-11	9.0m	16.847	16.725	1:74	A	150	VC
11-01	31.9m	16.675	16.219	1:70	A	150	VC
04-03	6.6m	16.950	16.650	1:22	A	150	VC
03-02	12.1m	16.650	16.464	1:65	A	150	VC
02-01	10.1m	16.414	16.219	1:52	A	150	VC
O/FLOW	4.0m	17.200	17.200	LAID FLAT	A	150	VC

MH REF	MH CONST	MH SIZE/DIA	COVER LEVEL	INVERT LEVEL	DEPTH (m)	COVER (mm)	COVER CLASS	ACCESS POINT TYPE (SFA 7th EDITION)
FW01	PLASTIC	600ø	17.700	16.580	1.120	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
FW02	PLASTIC	450ø	17.729	16.740	0.989	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
FW03	PLASTIC	450ø	17.983	17.240	0.743	600x600	C250	TYPE 3 FLEXIBLE INSPECTION CHAMBER

MH REF	MH CONST	MH SIZE/DIA	COVER LEVEL	INVERT LEVEL	DEPTH (m)	COVER (mm)	COVER CLASS	ACCESS POINT TYPE (SFA 7th EDITION)/ DESCRIPTION
SW01	PROPRIETARY ITEM		17.910	TBC		600x600	D400	PUMPING CHAMBER
SW02	CONC	1200ø	17.962	15.914	2.048	600x600	D400	CATCHPIT CHAMBER
SW03	PLASTIC	600ø	17.694	16.650	1.044	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
SW04	PLASTIC	450ø	17.700	16.950	0.750	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
SW11	CONC	1200ø	18.175	16.175	2.000	600x600	D400	CATCHPIT CHAMBER
SW12	PLASTIC	600ø	18.148	16.847	1.301	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
SW21	PLASTIC	450ø	17.700	16.650	1.050	600x600	D400	TYPE 3 FLEXIBLE INSPECTION CHAMBER
SW22	PLASTIC	600ø	17.950	16.700	1.250	600x600	D400	INTEGRAL INSPECTION CHAMBER

NOTE: ALL COVER LEVELS INDICATIVE - REFER ARCHITECTS DRAWINGS FOR EXTERNAL LEVELS AND COVER FINISHES
*EXISTING MANHOLE I.L. TO BE CHECKED ON SITE

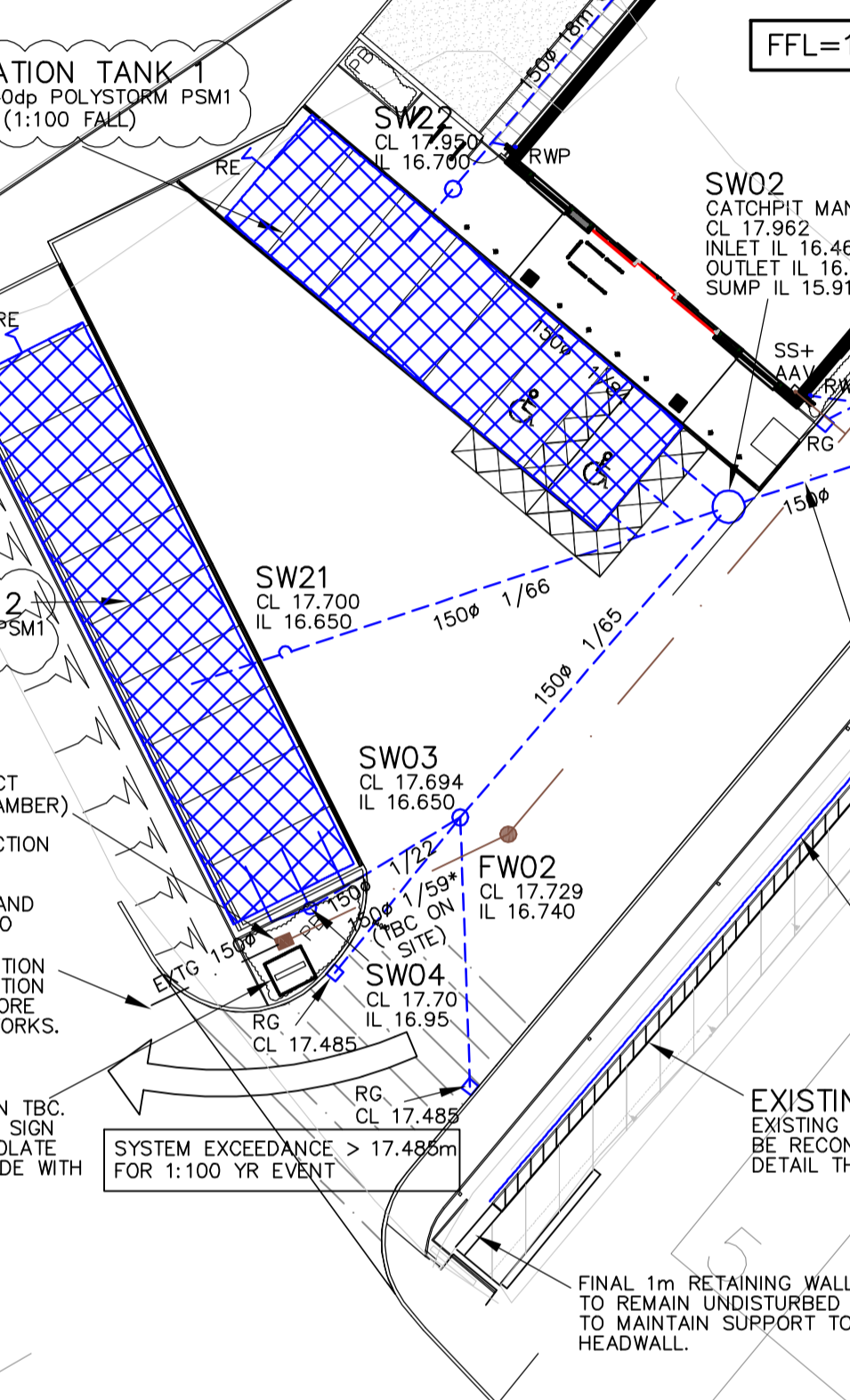


TYPICAL SECTION AT JUNCTION BETWEEN ACCESS ROAD & PARKING BAYS
SCALE 1/20

POST-REMEDIATION BUILD-UP TO LANDSCAPING AREA
(REFER HML REPORT AND REMEDIATION METHOD STATEMENT)

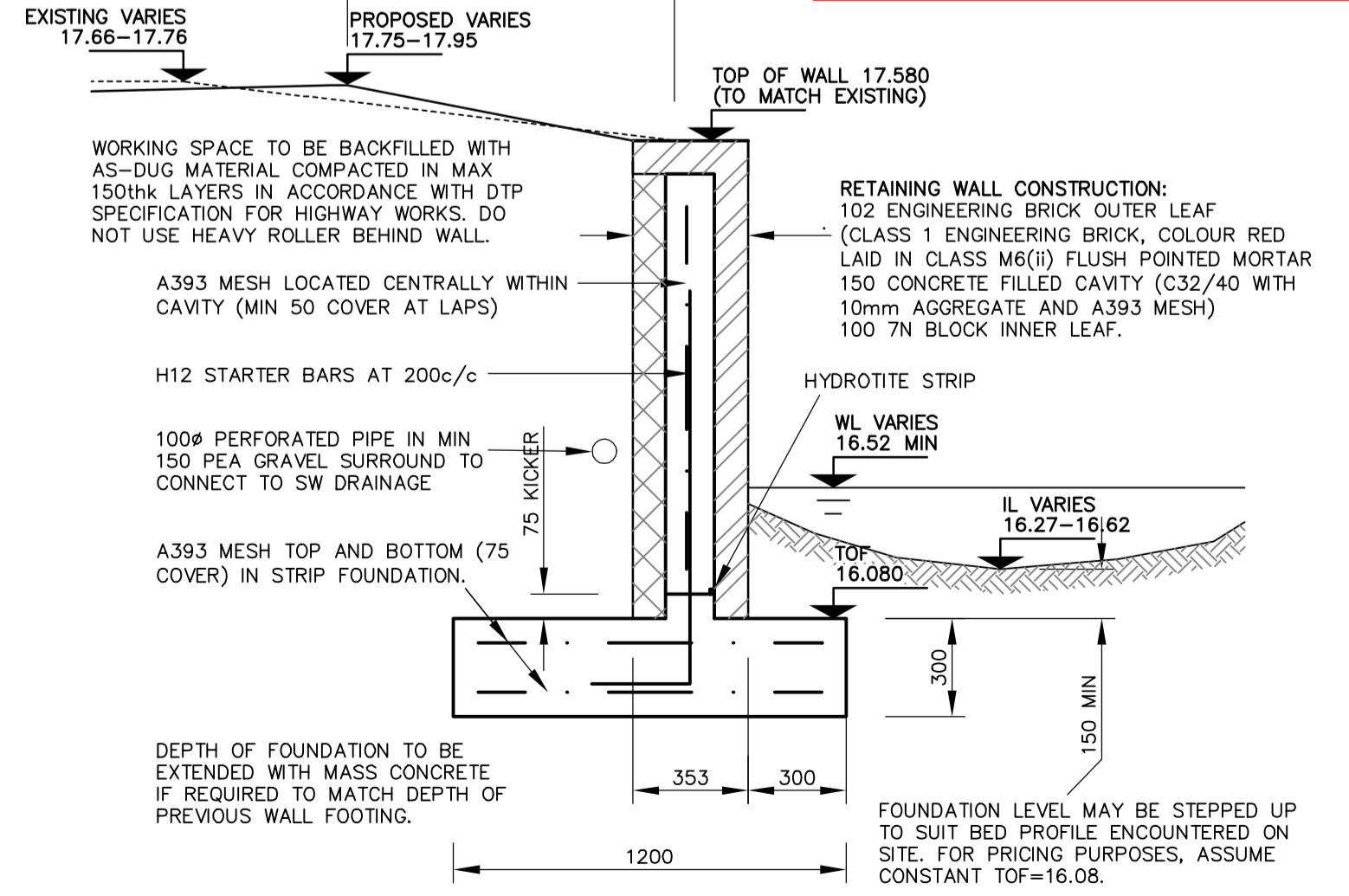
EXISTING MATERIAL EXCAVATED TO 0.3m BELOW ORIGINAL GROUND LEVELS DURING ENABLING WORKS PACKAGE AND ARISING DISPOSED OFF-SITE.
MAIN CONTRACTOR TO PROVIDE LOTRAK 1800 GEOTEXTILE TO BE LAID ON FORMATION WITH 150mm TYPE 3 HARDCORE AS CAPILLARY BREAK LAYER OVER IN ACCORDANCE WITH HML RECOMMENDATIONS. PROVIDE SECOND LAYER OF GEOTEXTILE OVER AND BACKFILL WITH 0.45m THICK LAYER OF CLEAN IMPORTED TOPSOIL GENERALLY. BACKFILL WITH TYPE 1 HARDCORE TO PROPOSED PATH/SEATING AREA TO FOOTPATH FORMATION LEVEL.
REFER YS DWG 6224/101 FOR TYPICAL SECTION OF POST-REMEDIATION BUILD-UP AND NORTH BOUNDARY SLAB-ON-EDGE RETAINING DETAIL

INTERNAL DRAINAGE LAYOUT, BIG, RWP AND SVP POSITIONS TO ARCHITECT'S DETAIL
ALL COVER LEVELS INDICATIVE - REFER TO ARCHITECT'S DRAWING FOR FINISHED SURFACE LEVELS



PROPOSED DRAINAGE LAYOUT
1/250

WORKING WITHIN WATERCOURSE.
RISK OF DROWNING AND DISEASE.
RISK OF EXCAVATION INSTABILITY.
CONTRACTOR TO DEVELOP SAFE METHOD OF WORKING TO BE SUBMITTED TO CDM CONSULTANT MIN 2 WEEKS PRIOR TO CONSTRUCTION. ALL TEMPORARY WORKS INCLUDING EXCAVATION SUPPORT AND ANY COFFERDAM/OVER-PUMPING TO MAIN CONTRACTORS DESIGN.



TYPICAL SECTION THROUGH REPLACEMENT RETAINING WALL
1/20

NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- THE SPECIFICATION FOR THE FOUL AND SURFACE WATER DRAINAGE SYSTEM IS TO COMPLY WITH WRc PUBLICATION (7TH ED) "SEWERS FOR ADOPTION" IN ALL RESPECTS.
- FULL METHOD STATEMENTS AND RISK ASSESSMENTS MUST BE CARRIED OUT BY THE CONTRACTOR WITH REGARD TO SAFE WORK IN TRENCHES AND THE PROVISIONS OF "SAFE WORKING IN SEWERS AND SEWAGE WORKS" PUBLISHED BY THE NATIONAL HEALTH AND SAFETY COMMITTEE FOR THE WATER SERVICE.
- ALL PIPES WITH LESS THAN 900mm COVER ARE TO BE ENCASED IN MIN. 150mm CONCRETE WITH JOINTS AT MAX. 5.0m CENTRES. CONTRACTOR TO ENSURE NO DAMAGE OCCURS TO PIPES DUE TO CONSTRUCTION TRAFFIC.
- REFER ARCHITECTS DRAWINGS FOR BUILDING FOUL AND SURFACE DRAINAGE, INCLUDING SVP AND RWP POSITIONS. ALL GULLIES AND DOWNPIPES TO BE RODDABLE. BELOW-GROUND SURFACE WATER CONNECTING PIPES TO BE MINIMUM 150ø.
- ALL MANHOLE COVERS IN PAVED AREAS TO BE MIN. CLASS C250 TO DIN 19580. COVERS IN HIGHWAYS TO BE MIN CLASS D400 TO DIN 19580.
- ATTENUATION TANKS:** PERMAVOID ATTENUATION SYSTEM TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
ATTENUATION TANK SIZE:
- ATTENUATION TANK 1: 10.0 x 4.5 x 0.15 DP
- ATTENUATION TANK 2: 24.5 x 4.5 x 0.3 DP
- SURFACE WATER PUMP CHAMBER:** PROPRIETARY PACKAGE PUMP STATION (DETAIL AND SUPPLY BY SPECIALIST) WITH TWIN PUMPS AND ALARM LOCATED IN PLANT ROOM. PUMPS SET TO LIMIT OUTFLOW TO MAX 5.0 l/s.
- DESIGN CRITERIA:** ALL SURFACE WATER RETAINED BELOW GROUND UP TO AND INCLUDING 1:100 YR (+ 40% CLIMATE CHANGE EVENT. EXCEEDANCE LEVEL = 17.485) FROM ENTRANCE BELLMOUTH GULLY WITH PUMP CHAMBER OVERFLOW PIPE FULL)

LEGEND:

- FOUL WATER MANHOLE (FW8)
- FOUL WATER MANHOLE (SW6)
- FOUL WATER SEWER
- STORM WATER SEWER
- RAINWATER PIPE (RWP)
- RODDING EYE (RE)
- BACK-INLET GULLY (RODDABLE) (BIG)
- ROAD GULLY (RODDABLE) (RG)

SYSTEM MAINTENANCE

- SKEGGER BECK TO BE CLEANED OUT AT COMMENCEMENT OF PROJECT AND KEPT FREE OF DEBRIS DURING CONSTRUCTION WORK.
- INSPECT AND TRIM VEGETATION ANNUALLY. DE-SILT AS NECESSARY AND MIN EVERY 5 YEARS.
- MAINTENANCE OF ATTENUATION TANK - AS NECESSARY AND MIN EVERY 5 YEARS:
- INSPECTION OF SYSTEMS
- REMOVAL OF SILTS
- DECANTING OF OILS AND HYDROCARBONS
- CHANNEL JETTING

CONSTRUCTION ISSUE

Rev	Revision	Drn	App	Date
B	UPDATED TO 40% CLIMATE CHANGE IN ACCORDANCE WITH LLFA COMMENTS.	HK	MS	10/21
A	CONTRACT ISSUE (AS TENDER ISSUE)	ZB	HK	10/21



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Client: **LCS Property Ltd**

Project: **PROPOSED FOOD STORE BARNETBY LE WOLD**

Title: **DRAINAGE GENERAL ARRANGEMENT AND DETAILS**

Date	Scale	Drawing No.	Rev
OCT 19	1/250	6224/100	B