LEGEND

- 150ø–1:100 — SURFACE WATER PIPE OFFERED FOR SOUTHERN WATER SECTION 104 ADOPTION
- PRECAST MANHOLE INSPECTION CHAMBER OFFERED FOR SOUTHERN WATER SECTION 104
- ROAD GULLY
- CHANNEL — LINEAR CHANNEL
- HYDROBRAKE MANHOLE OFFERED FOR SECTION 104 ADOPTION, TO BE ALARMED AND VENTED TO MANUFACTURERS SPECIFICATION
- POROUS PAVING WITH PERFORATED PIPE (TYPE 3 STONE)
- POROUS ASPHALT WITH PERFORATED PIPE (TYPE 3 STONE)
- FULL RETENTION PETROL INTERCEPTOR TO BE ALARMED AND VENTED TO MANUFACTURERS SPECIFICATION.
- SWALE/STORAGE BASIN OFFERED FOR SOUTHERN WATER SECTION 104 ADOPTION, WITH CHECK DAMS. PLANTING BY LANDSCAPE ARCHITECT.
- HEADWALL OFFERED FOR SOUTHERN WATER SECTION 104. FINAL DETAILS TO MANUFACTURERS SPECIFICATION
- 150ø–10m–1:100 — FOUL WATER PIPE OFFERED FOR SOUTHERN WATER SECTION 104
- FOUL WATER MANHOLE OFFERED FOR SOUTHERN WATER SECTION 104
- FOUL WATER PUMP STATION, TO HAVE EMERGENCY PUMPS,TO BE ALARMED AND VENTED WITH EMERGENCY STORAGE ALSO PROVIDED. TO MANUFACTURERS SPECIFICATION. OFFERED FOR SOUTHERN WATER SECTION 104
- FOUL WATER RISING MAIN OFFERED FOR S104 ADOPTION
- SITE BOUNDARY

NOTE:
TOPOGRAPHCIAL SURVEY, OS DATA, SITE PLAN OVERLAY SHOWN INDICATIVELY AND SHOULD BE COMPLETED BY ARCHITECT.

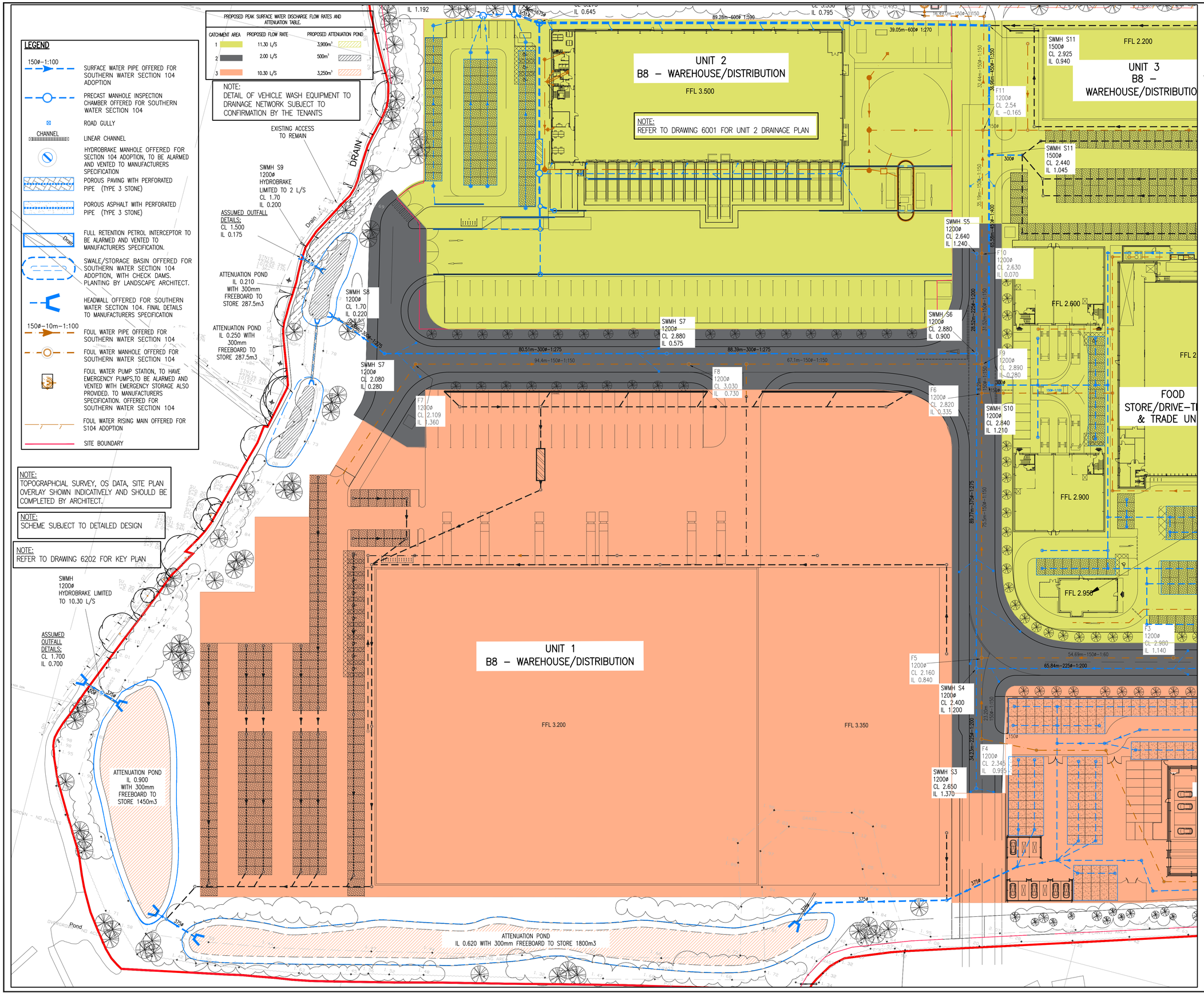
NOTE:
SCHEME SUBJECT TO DETAILED DESIGN

NOTE:
REFER TO DRAWING 6202 FOR KEY PLAN

PROPOSED PEAK SURFACE WATER DISCHARGE FLOW RATES AND ATTENUATION TABLE.

CATCHMENT AREA	PROPOSED FLOW RATE	PROPOSED ATTENUATION POND
1	11.30 L/S	3,900m³
2	2.00 L/S	500m³
3	10.30 L/S	3,250m³

NOTE:
DETAIL OF VEHICLE WASH EQUIPMENT TO DRAINAGE NETWORK SUBJECT TO CONFIRMATION BY THE TENANTS



GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
2. THIS DRAINAGE SCHEME HAS BEEN BASED ON INFORMATION RECEIVED UP TO THE DATE OF DRAWING ISSUE. THE CONTRACTOR IS TO SATISFY HIMSELF OF SIZES, DEPTHS AND LOCATIONS OF ALL EXISTING SERVICES ON SITE BEFORE COMMENCING OF ANY WORKS AND FINAL DESIGN. ANY DISCREPANCIES, ERRORS OR OMISSIONS ARE TO BE CLARIFIED WITH THE RELEVANT ENGINEER AT THE EARLIEST OPPORTUNITY.
3. FOUL AND SURFACE WATER CONNECTIONS INTO THE EXISTING PUBLIC SEWERS IS ASSUMED ONLY. FINAL CONNECTIONS LEVELS AND DETAILS TO BE AGREED WITH THE APPROPRIATE LOCAL AUTHORITY AND CONTRACTOR.
4. MANHOLE COVERS AND FRAMES TO BS EN 124
SERVICE YARDS AND HIGHWAYS (CLASS D400)
CAR PARKING AREAS (CLASS B125)
SOFT LANDSCAPING AND FOOTWAYS (CLASS A15)
INTERNAL MANHOLES TO HAVE DOUBLE SEALED, SCREWED DOWN COVERS AND FRAMES AS HOWE GREEN OR SIMILAR APPROVED.
5. MANHOLE DETAILS – (MINIMUM REQUIREMENTS ONLY)

DEPTH m	TYPE	SIZE mm	PIPE DIA. mm	ACCESS mm
1.0–1.50	P.C.	1050 DIA.	< 375	600 CLEAR
< 3.0	P.C.	1200 DIA.	< 375	600 CLEAR
< 3.0	P.C.	1500 DIA.	375–700	600 CLEAR
< 3.0	P.C.	1800 DIA	750–900	600 CLEAR
3.0–6.0	P.C.	AS < 3.0 DEPTH	BUT WITH 900 DIA. ACCESS SHAFT	
< 1.0	BRICK	900x675	< 225	600 CLEAR
1.0–1.50	BRICK	1240x675	< 225	1200x600
1.50–3.0	BRICK	1240x750	< 225	600 CLEAR
< 1.2	PPIC	475 DIA.	< 150/160	475 CLEAR
1.2–3.0	PPIC	475 DIA.	< 150/160	340 CLEAR

FOR FURTHER DETAILS REFER TO MANHOLE AND PIPELINE SCHEDULES AND DETAIL DRAWINGS

6. EXTERNAL PIPE BEDDING – UNLESS NOTED OTHERWISE – SEE SCHEDULE
CLASS F: 100mm MINIMUM GRANULAR BED WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF PIPE
CLASS B: 100mm MINIMUM GRANULAR BED & HAUNCH TO HALF PIPE HEIGHT WITH SELECTED BACKFILL TO 300mm ABOVE CROWN OF PIPE
7. INTERNAL PIPE RUNS UNDER BUILDINGS, ETC. TO HAVE 100mm MINIMUM GRANULAR BED AND SURROUND WITH SELECTED BACKFILL. WHERE PIPE IS WITHIN 300 OF THE UNDERSIDE OF SLAB 150 MINIMUM CONCRETE SURROUND TO BE PROVIDED
8. ALL RAINWATER PIPES TO HAVE ACCESSIBLE RODDING POINTS OR INCORPORATED GULLIES WHERE REQUIRED.
9. ALL ROAD GULLIES TO BE TRAPPED & HAVE 150mm DIA. OUTLETS
10. WHERE COVER TO PIPES IS LESS THAN 900mm IN ROADS AND 600mm ELSEWHERE PROVIDE CONCRETE SURROUND OR PROTECTION SLAB UNLESS NOTED OTHERWISE. ALL TO BE IN ACCORDANCE WITH MANUFACTURERS DEPTH/LOADING REQUIREMENTS.
11. CLAY PIPEWORK UP TO & INCLUDING 300mm DIA. TO BE CLAY (EXTRA STRENGTH) TO BS EN 295 ON CLASS F BEDDING. ABOVE 300mm DIA. PIPES TO BE CONCRETE (CLASS H) TO BS 5911 ON CLASS B BEDDING UNLESS NOTED OTHERWISE.
12. FOUL DRAINAGE TO BE AS "WAVIN OSMA SOLID WALL / ULTRARIB" TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED, ALL INSTALLED TO MANUFACTURES RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
13. SURFACE WATER DRAINAGE PIPEWORK TO BE AS "WAVIN OSMA TWIN WALL SYSTEM" TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED, ALL INSTALLED TO MANUFACTURES RECOMMENDATIONS, UNLESS NOTED OTHERWISE.
14. DRAINAGE CHANNELS TO BE AS "ACO" OR SIMILAR APPROVED AS FOLLOWS:
CAR PARKS : Q–MAX OR M100D CHANNELS WITH D.I. HEELGUARD GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE.
SERVICE YARD, PFS. & GARDEN CENTRE AREAS : Q–MAX OR M100D CHANNELS WITH D.I. GRATING (LOAD CLASS D400) UNLESS NOTED OTHERWISE.
ALL OUTLETS TO HAVE 150 DIA. TRAPPED GULLYS OR SUMP UNITS WITH TRASH BUCKETS TO SUIT UNLESS NOTED OTHERWISE.
THE CONTRACTOR TO LIAISE WITH CHANNEL MANUFACTURER (ACO) WITH REGARD TO DEPTH, DETAILS AND PART COMPONENT ARRANGEMENT, ETC.
15. ARCHITECT TO ADVISE ON FINAL POSITIONS OF RAINWATER PIPES AND FOULWATER OUTLETS IN GROUND FLOOR SLAB.
16. EXISTING SEWERS WHICH ARE OR WILL BE DISUSED ARE TO BE TRACED, AND ANY DRAIN WHICH SHOWS SIGNS OF FLOW SHOULD BE INVESTIGATED TO ESTABLISH ITS ORIGIN AND AUTHENTICITY, AND REPORTED TO THE ENGINEER.
17. NO SEWER SHALL BE ABANDONED UNTIL THE CONTRACTOR HAS CONFIRMED THAT THERE ARE NO CONNECTIONS REMAINING.
18. ALL ADOPTABLE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH SEWERS FOR ADOPTION 6th EDITION AND THE APPROPRIATE LOCAL AUTHORITIES ADDENDUM.
19. UPON COMPLETION OF THE WORKS A FULL SET OF TEST RECORDS FOR WATER TIGHTNESS AND INTEGRITY OF THE WHOLE UNDERGROUND DRAINAGE SYSTEM SHALL BE ISSUED TO THE EMPLOYERS AGENT.
20. FIVE DAYS PRIOR TO PRACTICAL COMPLETION THE CONTRACTOR SHALL ALSO INCLUDE FOR ARRANGING AND PROVIDING A FULL CLOSED CIRCUIT TELEVISION (CCTV) VIDEO RECORD ON CD SHOWING THE CONDITION OF THE ENTIRE BELOW GROUND DRAINAGE SYSTEM, AS INSTALLED. A COPY OF THE CD SHALL BE HANDED TO THE EMPLOYERS AGENT. THIS SHALL BE PRESENTED AS A SEPARATE COST ITEM, ALL TO BE AGREED WITH THE CLIENT.

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

Project: SALTBOX SITE BOGNOR REGIS

Drawing Title: PHASE 1 DRAINAGE STRATEGY PLANNING SHEET 1 OF 3

Drawn:	Chkd/Appd:	Date:	Sheet Size:	Scale:
DO	KJ	OCT' 2018	A1	1:500

KSA Project Number:	Suit:	Revision:
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