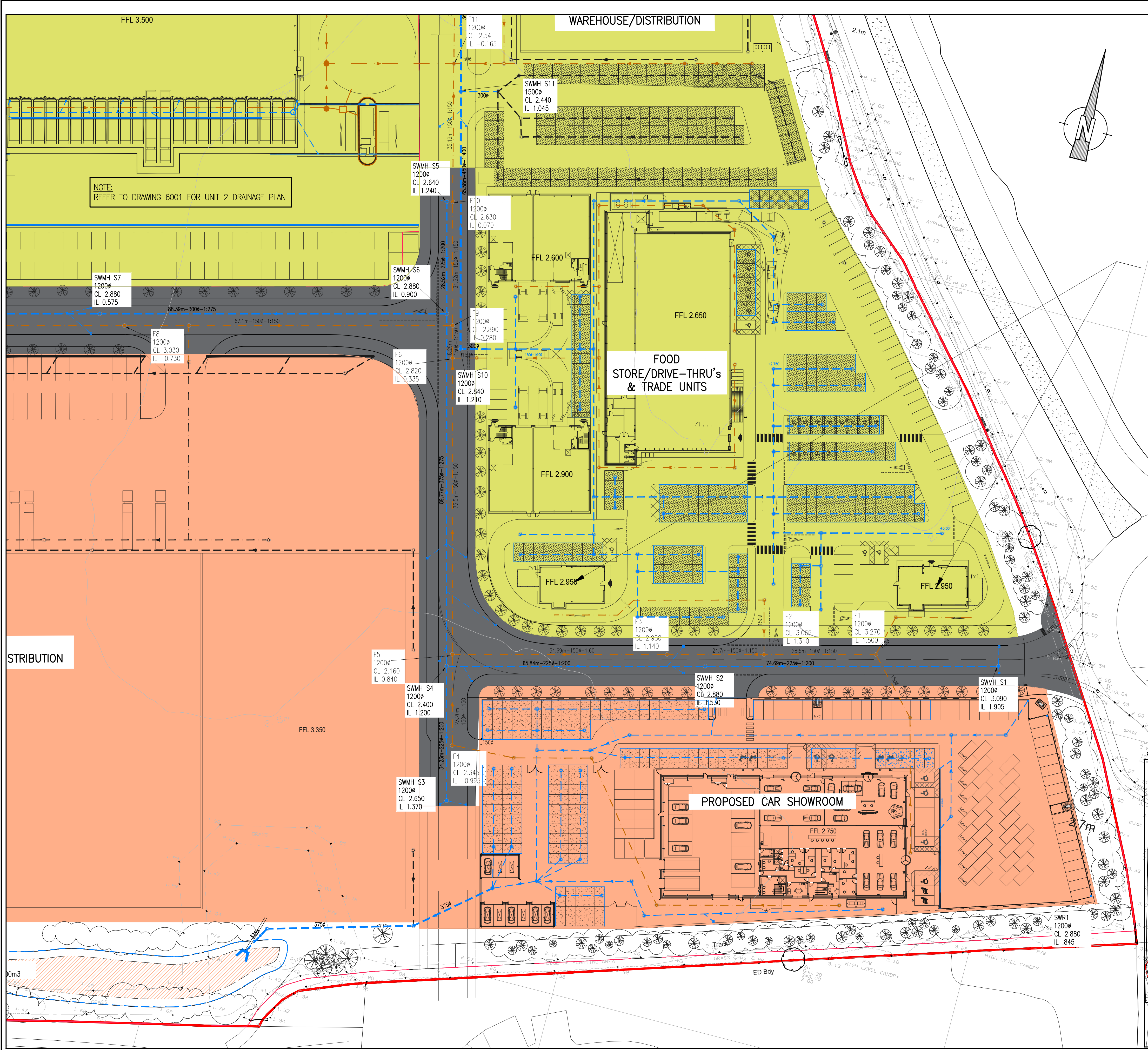




NOTE:
TOPOGRAPHICAL SURVEY, OS DATA, SITE PLAN
OVERLAY SHOWN INDICATIVELY AND SHOULD BE
COMPLETED BY ARCHITECT.

NOTE:
SCHEME SUBJECT TO DETAILED DESIGN

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

LEGEND

1500-1100
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

1500-10m-1100
FOUL WATER PIPE OFFERED FOR
SOUTHERN WATER SECTION 104

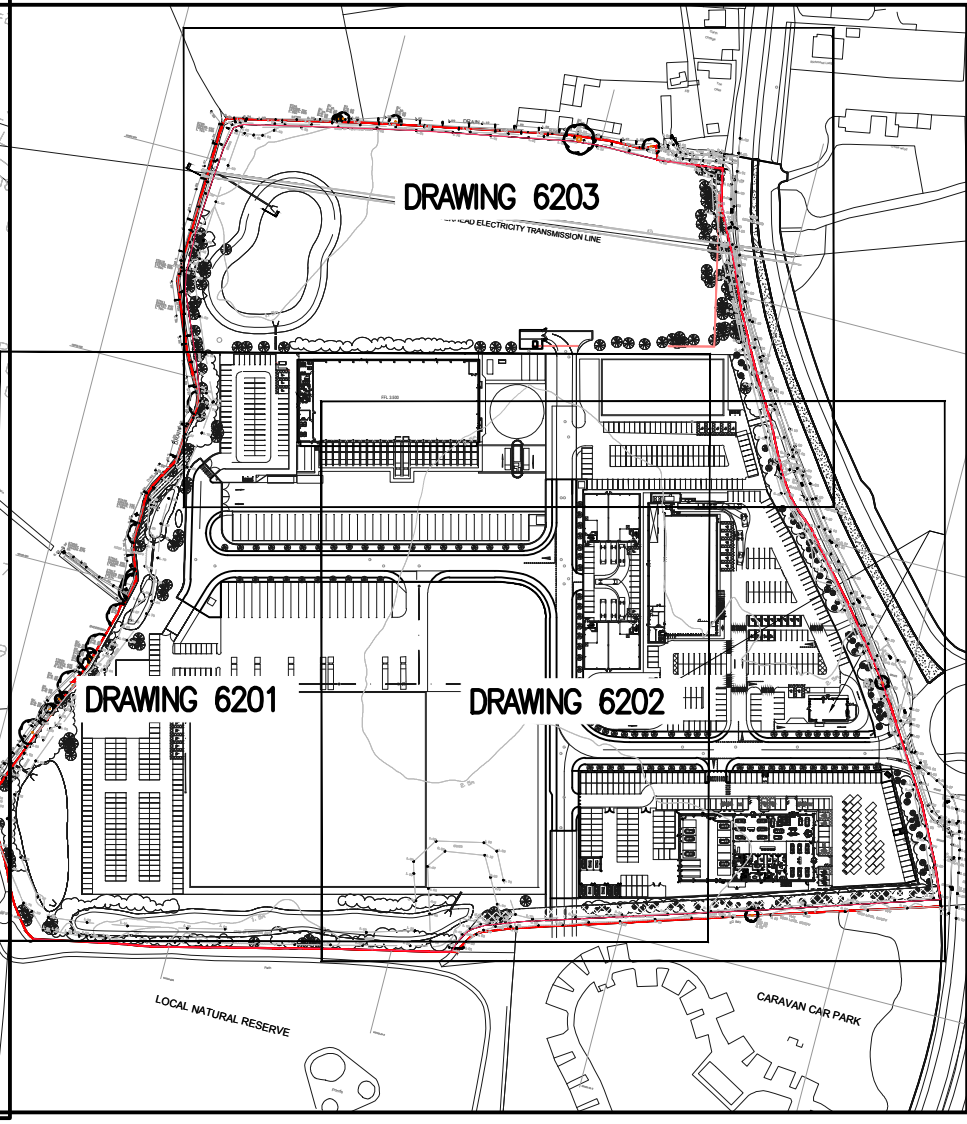
FOUL WATER MANHOLE OFFERED FOR
SOUTHERN WATER SECTION 104

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

PROPOSED PEAK SURFACE WATER DISCHARGE FLOW RATES AND ATTENUATION TABLE			
CATCHMENT AREA	PROPOSED FLOW RATE	PROPOSED ATTENUATION FOND	
1	11.30 L/S	3,900m ³	
2	2.00 L/S	500m ³	
3	10.30 L/S	3,250m ³	



GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
- 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.
- 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.
- 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.
- 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	1200x800
1.50-3.0	BRICK	1240x675	< 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 ROODING 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 OSMO SOLID WALL / ULTRARIB' TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.

13. SURFACE WATER DRAINAGE PIPEWORK TO BE AS 'WAVIN OSMO TWIN WALL SYSTEM' TO BS 4660 & EN1401 ON CLASS S BEDDING OR SIMILAR APPROVED. ALL INSTALLED TO MANUFACTURERS RECOMMENDATIONS, UNLESS NOTED OTHERWISE.

14. DRAINAGE CHANNELS TO BE AS 'ACO' OR SIMILAR APPROVED AS FOLLOWS:

CAR PARKS : Q-MAX OR M1000 CHANNELS WITH D.I. HEELGUARD GRATING (LOAD CLASS C250) UNLESS NOTED OTHERWISE.

SERVICE YARD, PFS & GARDEN CENTRE AREAS : Q-MAX OR M1000 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 ADAPTABLE 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.

P1	PRELIMINARY ISSUE	DO	SH	30.11.18
Rev	Description	Dim	Chk	Date

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Client: LANDLINK ESTATES

Architect: MOUNTFORD PIGOTT

Project: SALTBOX SITE BOGNOR REGIS

Drawing Title: PHASE 1 DRAINAGE STRATEGY PLANNING SHET 2 OF 3

Drawn: DO	Checked: KJ	Date: OCT 2018	Sheet Size: A1	Scale: 1:500
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KSA Project Number: 6090	Suit: S1	Revision: P1
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Project: SBX KSA Z0-XX-DR-C-6202	Originator: Z0	Level: XX	Type: DR	Rate: C	Number: 6202
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KEY PLAN