

PROPOSED SHED AT SYDNEY RECYCLING PARK
LOT 230 DP 1134016
16 - 23 CLIFTON AVENUE, KEMPS CREEK
CONCEPT CIVIL ENGINEERING DRAWINGS

DRAWINGS LIST

- C1.00

COVER SHEET
- C1.01

KEY PLAN
- C2.00

SEDIMENT AND EROSION CONTROL PLAN
- C2.01

SEDIMENT AND EROSION CONTROL DETAILS
- C3.00

CONCEPT BULK EARTHWORKS PLAN
- C3.01

CONCEPT SITE SECTIONS
- C4.00

CONCEPT STORMWATER MANANGEMENT PLAN
- C4.01

CONCEPT STORMWATER MANAGEMENT DETAILS
- C5.00

CONCEPT DRIVEWAY PLAN AND LONG SECTION

NOTE:

1. THIS IS AN ENGINEERING SURVEY PLAN AND SHALL NOT BE TAKEN AS A CADASTRAL OR IDENTIFICATION SURVEY. BOUNDARY DATA IF SHOWN, SHOULD BE TAKEN AS A GUIDE ONLY.

2. REFER TO THE CERTIFICATE OF TITLE FOR EASEMENT DETAILS (IF ANY).

3. NO UNDERGROUND SERVICES HAVE BEEN LOCATED.

SURVEY:

1. SURVEY PROVIDED BY: MATHEW FREEBURN SURVEYORS REF: 31209 DATED 28/0/21 & 16/05/22

2. ORIGIN OF LEVELS .

PM / SSM	EASTING	NORTHING	RL(AHD)
NA	NA	NA	NA

ARCHITECTURAL PLANS BY:

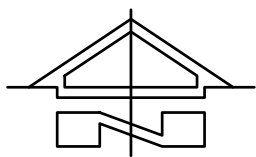
ARCHITECTURAL PLANS BY: APEX BUILDING SERVICES, REF: 2064,REVISION/VERSION: E , DATED:20/07/22.

GEOTECH ENGINEER:

GEOTECH REPORT BY: CONSULTING EARTH SCIENTISTS, REF: CE5220320-WAE-AC, DATED 13/07/22.

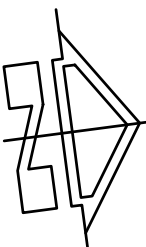
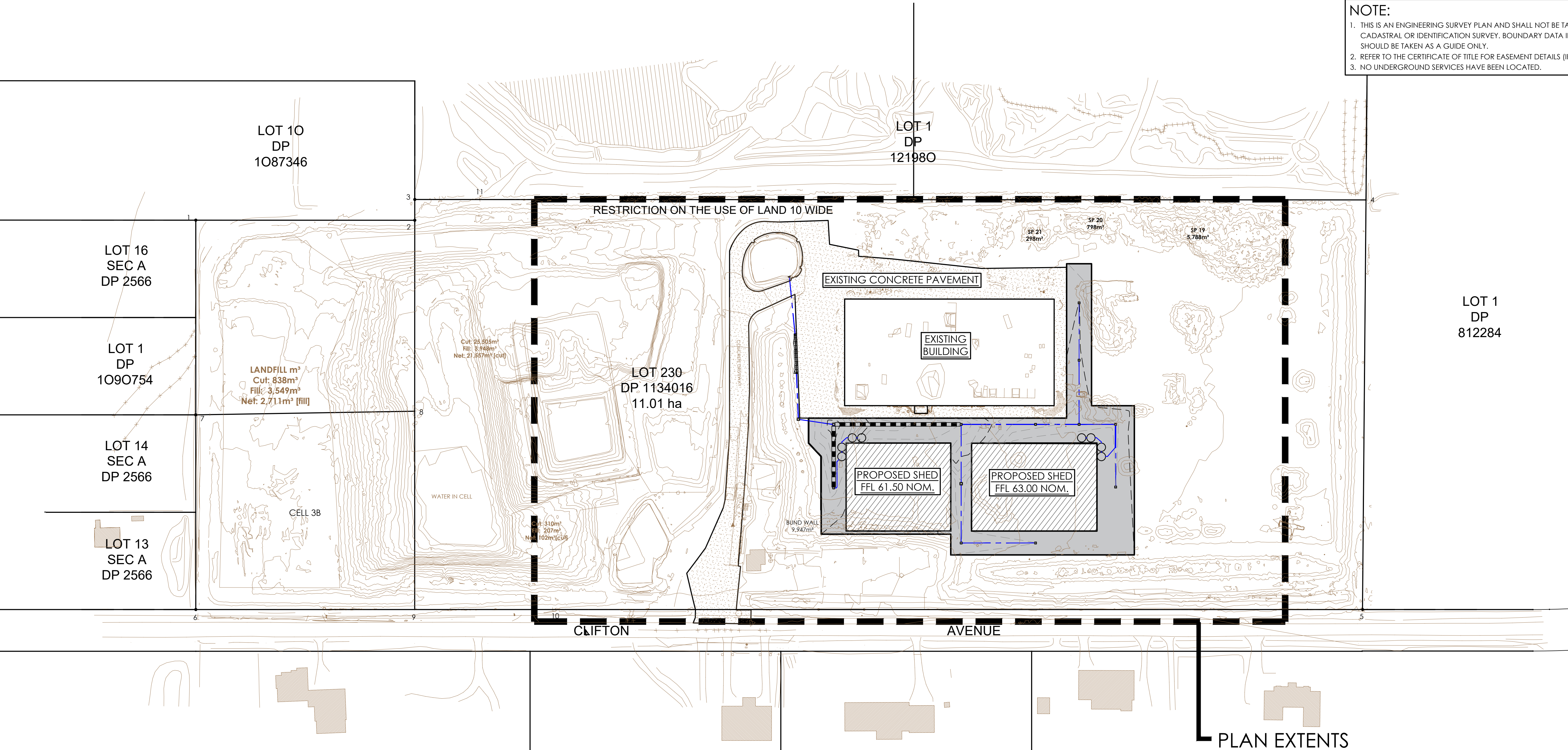


NOTE:
ALL UTILITIES ARE TO BE
ACCURATELY LOCATED BY
CONTRACTOR BEFORE
CONSTRUCTION.

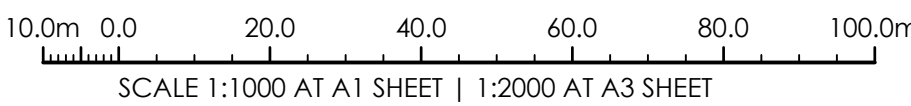


LOCATION PLAN
SCALE NTS

NOTE:
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KEY PLAN
SCALE 1:1000 AT A1



REISSUE FOR DA	IS.O	D	16.02.23
ISSUED FOR REVIEW	IS.O	C	15.02.23
ISSUED FOR DA - MINOR STORMWATER REVISION	CW	B	11.08.22
ISSUED FOR DA	CW	A	10.08.22
AMENDMENTS	DATE	ISSUE	BY

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PROJECT
SYDNEY RECYCLING PARK
16-23 CLIFTON AVE
KEMPS CREEK NSW

DESIGNED BK	DRAWN CW	DATE AUG 22	SIZE A1	CAD REF TX16593.00 - C1
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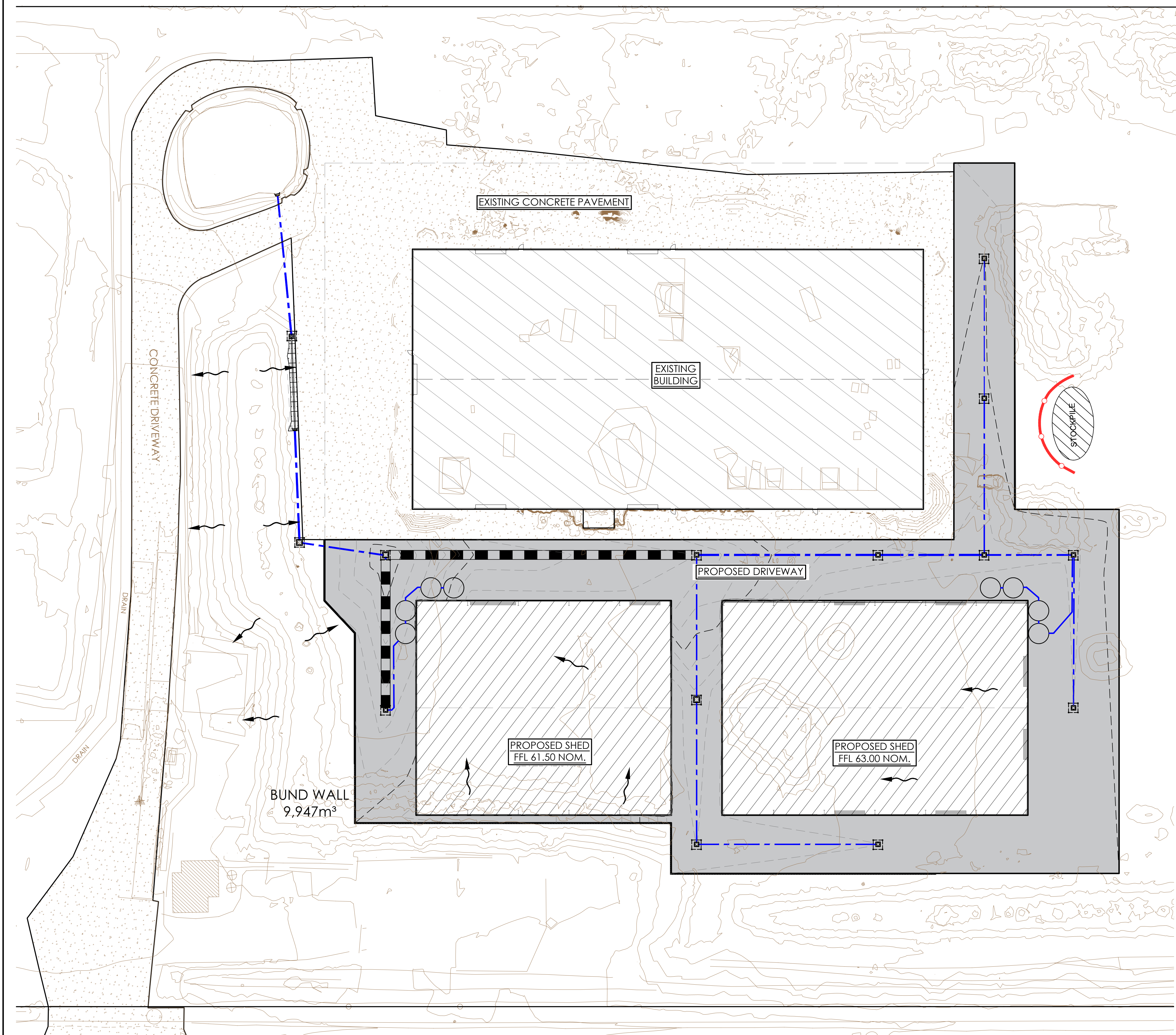
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DRAWING TITLE
KEY PLAN

PROJECT No.
TX16593.00 - C1.01
DRAWING No.
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LEGEND - SEDIMENT & EROSION

SYMBOL	DESCRIPTION
	SEDIMENT FENCE
	EXISTING FALL DIRECTION
	GEOTEXTILE INLET FILTER
	TEMPORARY STOCKPILE
	STABILISED SITE ACCESS

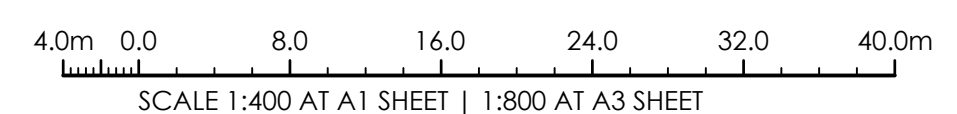
SEDIMENT & EROSION CONTROL DURING CONSTRUCTION

THIS PLAN IS TO BE USED AS A GUIDE ONLY. CONTRACTOR TO CONFIRM CONSTRUCTION SEQUENCE AND IMPLEMENT APPROPRIATE SEDIMENT AND EROSION CONTROL DETAILS IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

NOTE:
ALL UTILITIES ARE TO BE ACCURATELY LOCATED BY CONTRACTOR BEFORE CONSTRUCTION.

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1. Site Data Sheet									
Site Name:		TX16593.00 - 16-23 CLIFTON AVE, KEMPS CREEK							
Site Location:		SYDNEY ALL							
Precinct:		NOT APPLICABLE							
Description of Site:		Soil Landscape: Blacktown (bt)							
		Soil Hydrologic Group: Group C							
		Sediment Type: Type F/D							
		Soil Erodibility K-factors: na (Type F) 0.038 (Type D) na (Type D)							
Site area		Site						Remarks	
		1	2	3	4	5	6		
Total catchment area (ha)		1.04	1.04	1.04					
Disturbed catchment area (ha)		1.04	1.04	1.04					
Soil analysis									
% sand (fraction 0.02 to 2.00 mm)		67	53	53				Soil texture should be assessed through mechanical dispersion only. Dispersing agents (e.g. Calgon) should not be used	
% silt (fraction 0.002 to 0.02 mm)		22	30	30					
% clay (fraction finer than 0.002 mm)		11	17	17				E.g. enter 10 for dispersion of 10%	
Dispersion percentage		22.0	32.0	32.0				See Section 6.3.3(e)	
% of whole soil dispersible		4.84	10.24	10.24				See Section 6.3.3(c), (d) and (e)	
Soil Texture Group		F	D	D					
Rainfall data									
Design rainfall depth (day s)		5	5	5				See Sections 6.3.4 (d) and (e)	
Design rainfall depth (percentile)		75	75	75				See Sections 6.3.4 (f) and (g)	
x-day, y-percentile rainfall event		23.3	23.3	23.3				See Section 6.3.4 (h)	
Rainfall intensity: 2-year, 6-hour storm		13	13	13				See IFD chart for the site	
RUSLE Factors									
Rainfall erosivity (R-factor)		3655	3655	3655				Automatic calculation from above data	
Soil erodibility (K-factor)		0.038	0.038	0.038				RUSLE data can be obtained from Appendices A, B and C	
Slope length (m)		200	200	200					
Slope gradient (%)		3	3	3					
Length/gradient (LS-factor)		1	1	1					
Erosion control practice (P-factor)		1.3	1.3	1.3					
Ground cover (C-factor)		1	1	1					
Calculations									
Soil loss (t/ha/yr)		181	181	181				See Section 4.4.2(b)	
Soil Loss Class		2 - LOW	2 - LOW	2 - LOW					
Soil loss (m ³ /ha/yr)		139	139	139					
Soil loss (m ³ /yr)		145	145	145					
Sediment basin storage volume, m ³		0	0	0				See Sections 6.3.4(i) and 6.3.5 (e)	



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AMENDMENTS

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ISSUE
BY

16.02.23
15.02.23
11.08.22
10.08.22

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16-23 CLIFTON AVE
KEMPS CREEK NSW

DESIGNED
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DATE
AUG 22

SIZE
A1

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TX16593.00 - C2

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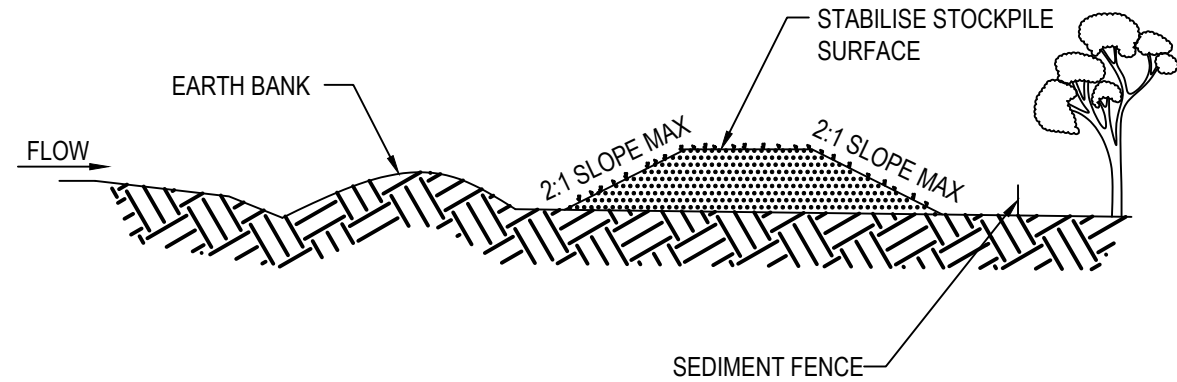
DRAWING TITLE
SEDIMENT & EROSION CONTROL
PLAN

PROJECT No.
TX16593.00 - C2.00

DRAWING No.
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SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
FOURTH EDITION, MARCH 2004
PRODUCED BY THE DEPARTMENT
OF HOUSING

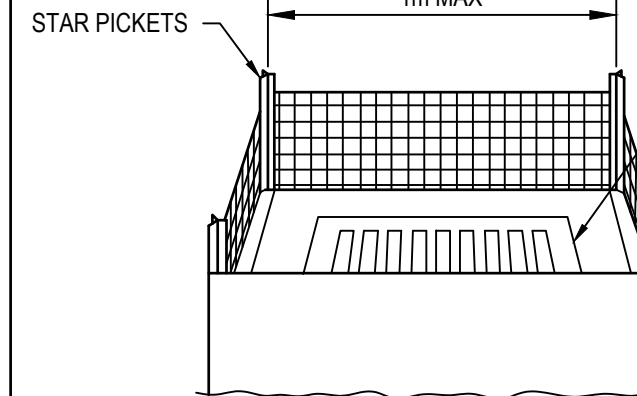


CONSTRUCTION NOTES:

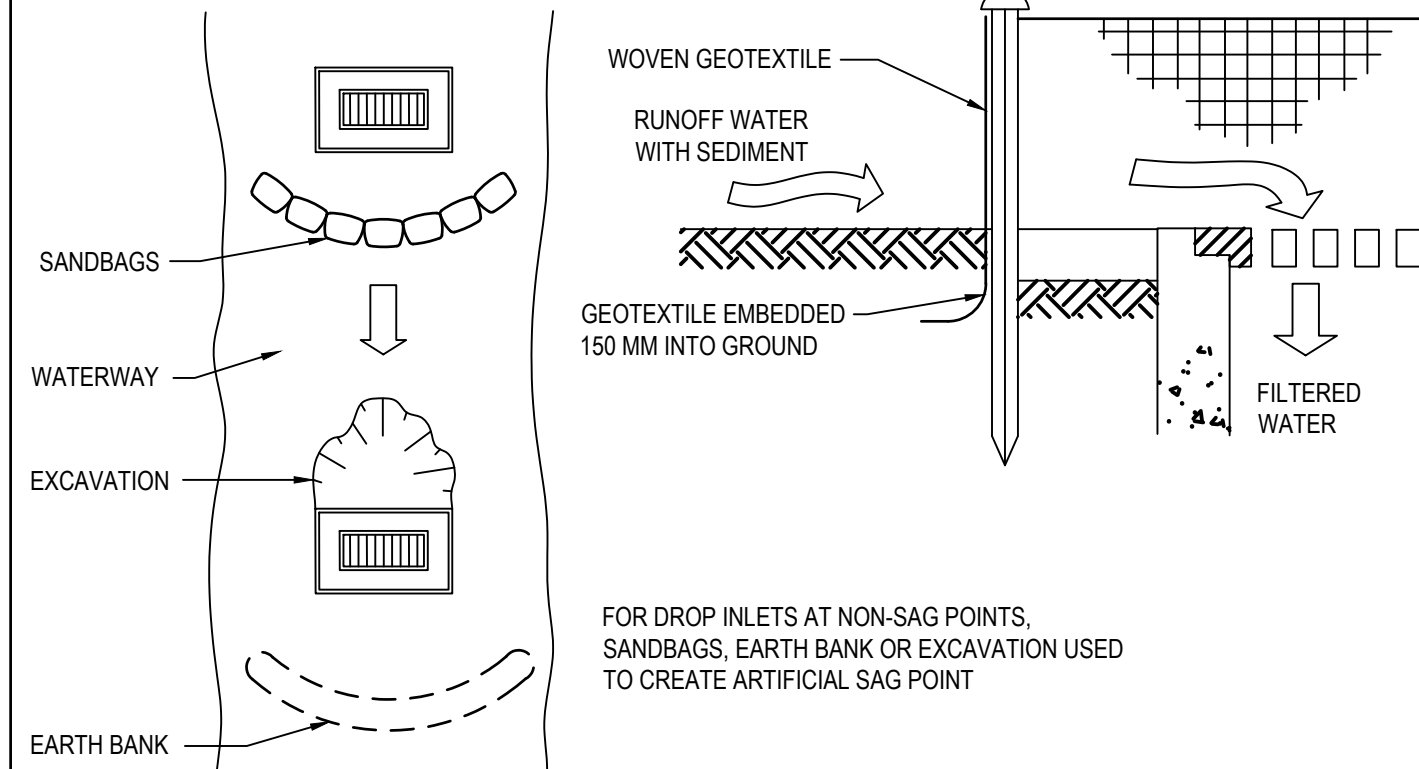
1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METERS IN HEIGHT.
4. WHERE THEY ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE FOLLOWING THE APPROVED ESCP OR SWMP TO REDUCE THE C-FACTOR TO LESS THAN 0.10.
5. CONSTRUCT EARTH BANKS (STANDARD DRAWING 6-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCE (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

STOCKPILES

SD 4-1



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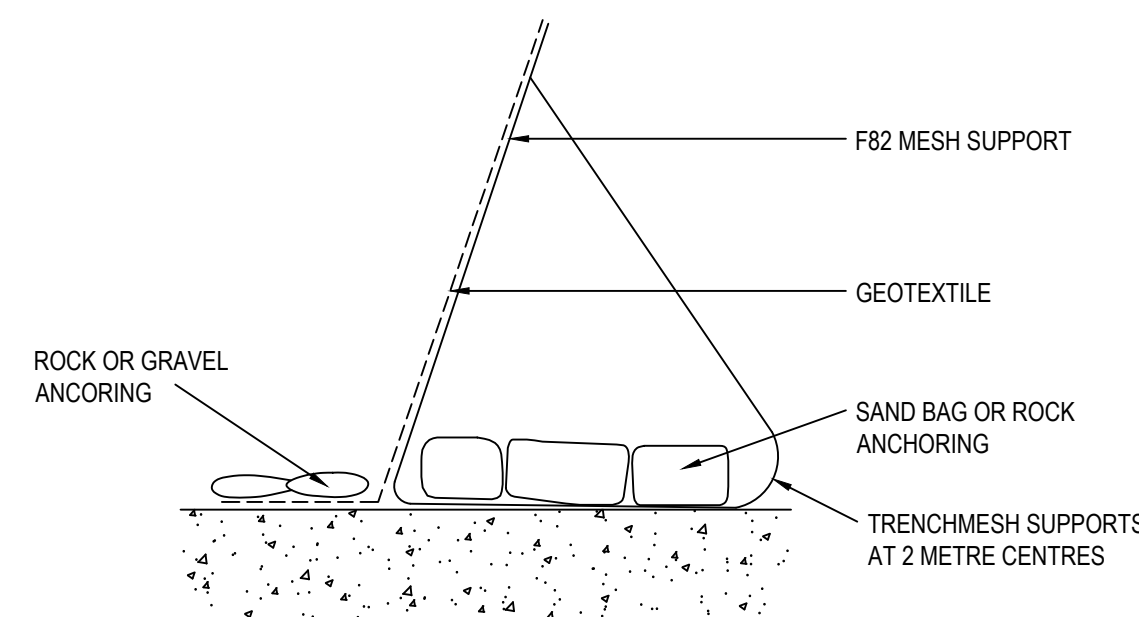
CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC. REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER

SD 6-12

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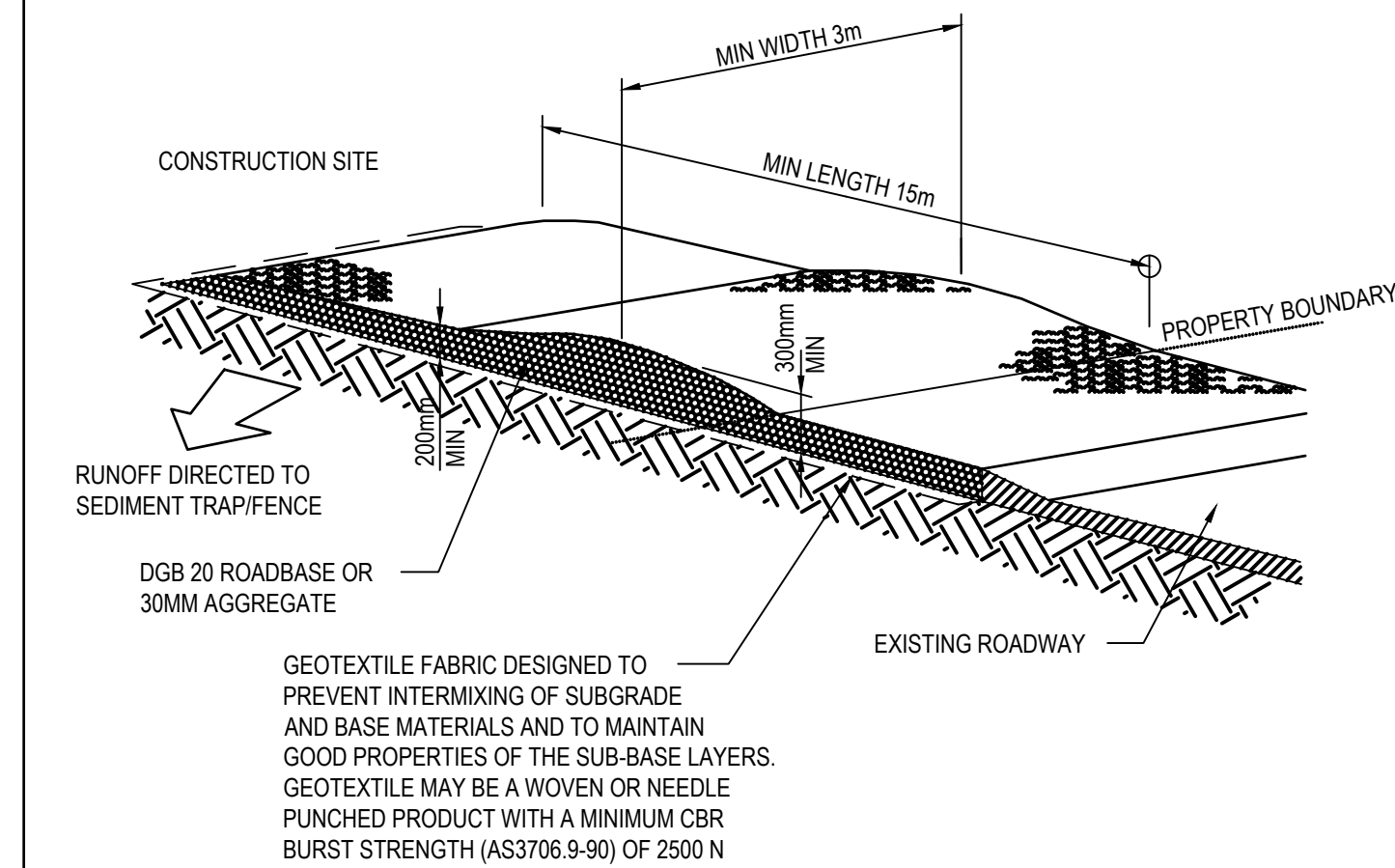
CONSTRUCTION NOTES:

1. INSTALL THIS TYPE OF SEDIMENT FENCE WHEN USE OF SUPPORT POSTS IS NOT DESIRABLE OR NOT POSSIBLE. SUCH CONDITIONS MIGHT APPLY, FOR EXAMPLE, WHERE APPROVAL IS GRANTED FROM THE APPROPRIATE AUTHORITIES TO PLACE THESE FENCES IN HIGHLY SENSITIVE ESTUARINE AREAS.
2. USE BENT TRENCH MESH TO SUPPORT THE F82 WELDED MESH FACING AS SHOWN ON THE DRAWING ABOVE. ATTACH THE GEOTEXTILE TO THE WELDED MESH FACING USING UV RESISTANT CABLE TIES.
3. STABILISE THE WHOLE STRUCTURE WITH SANDBAG OR ROCK ANCHORING OVER THE TRENCH MESH AND THE LEADING EDGE OF THE GEOTEXTILE. THE ANCHORING SHOULD BE SUFFICIENTLY LARGE TO ENSURE STABILITY OF THE STRUCTURE IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.

ALTERNATIVE SEDIMENT FENCE

SD 6-9

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
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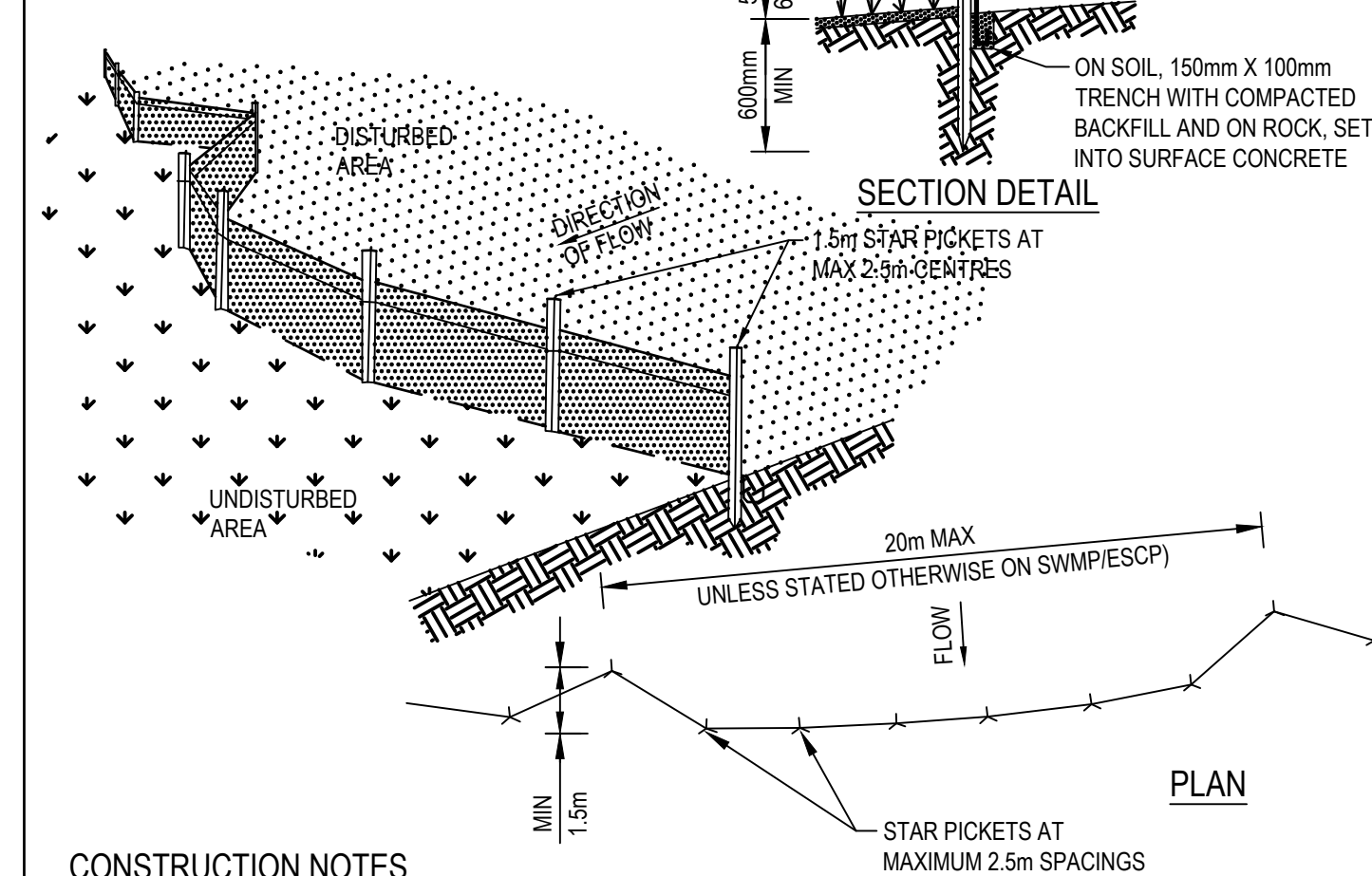
CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200MM THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30MM AGGREGATE.
4. ENSURE THE STRUCTURE IS AT LEAST 15 METRES LONG OR TO BUILDING ALIGNMENT AND AT LEAST 3 METRES WIDE.
5. WHERE A SEDIMENT FENCE JOINS ONTO THE STABILISED ACCESS, CONSTRUCT A HUMP IN THE STABILISED ACCESS TO DIVERT WATER TO THE SEDIMENT FENCE.

STABILISED SITE ACCESS - IF REQUIRED

SD 6-14

SOURCE: MANAGING URBAN STORMWATER
SOILS AND CONSTRUCTION
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CONSTRUCTION NOTES

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10 YEAR EVENT.
2. CUT A 150 MM DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150 MM OVERLAP.
6. BACKFILL TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

SEDIMENT FENCE

SD 6-8

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AMENDMENTS

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16-23 CLIFTON AVE
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DATE
AUG 22

SIZE
A1

CAD REF
TX16593.00 - C2



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DRAWING TITLE

SEDIMENT & EROSION CONTROL
DETAILS

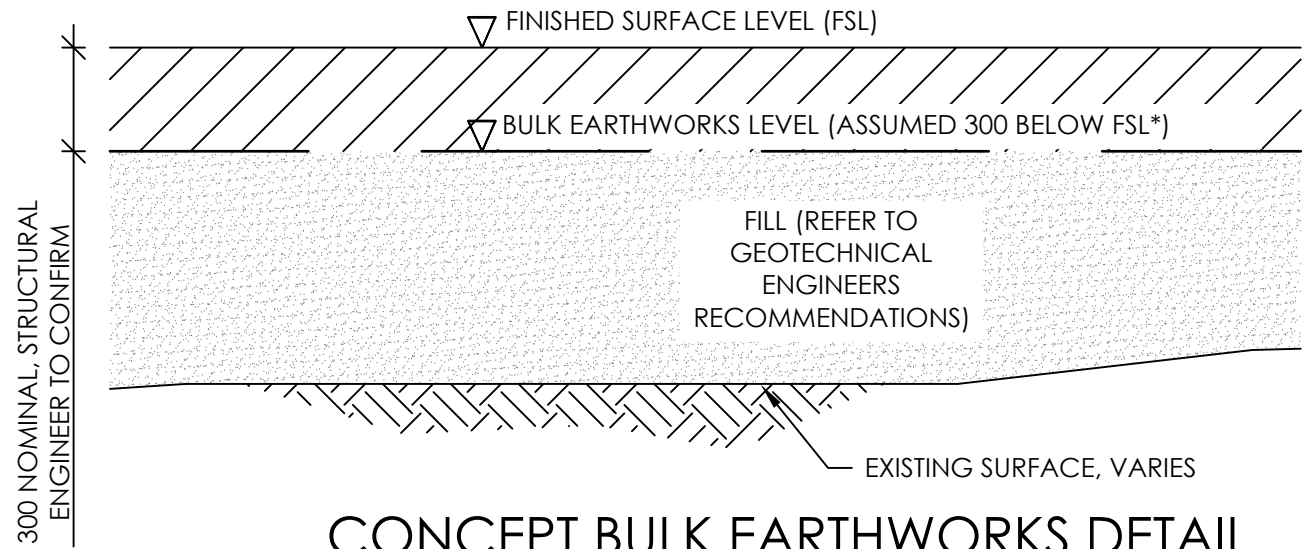
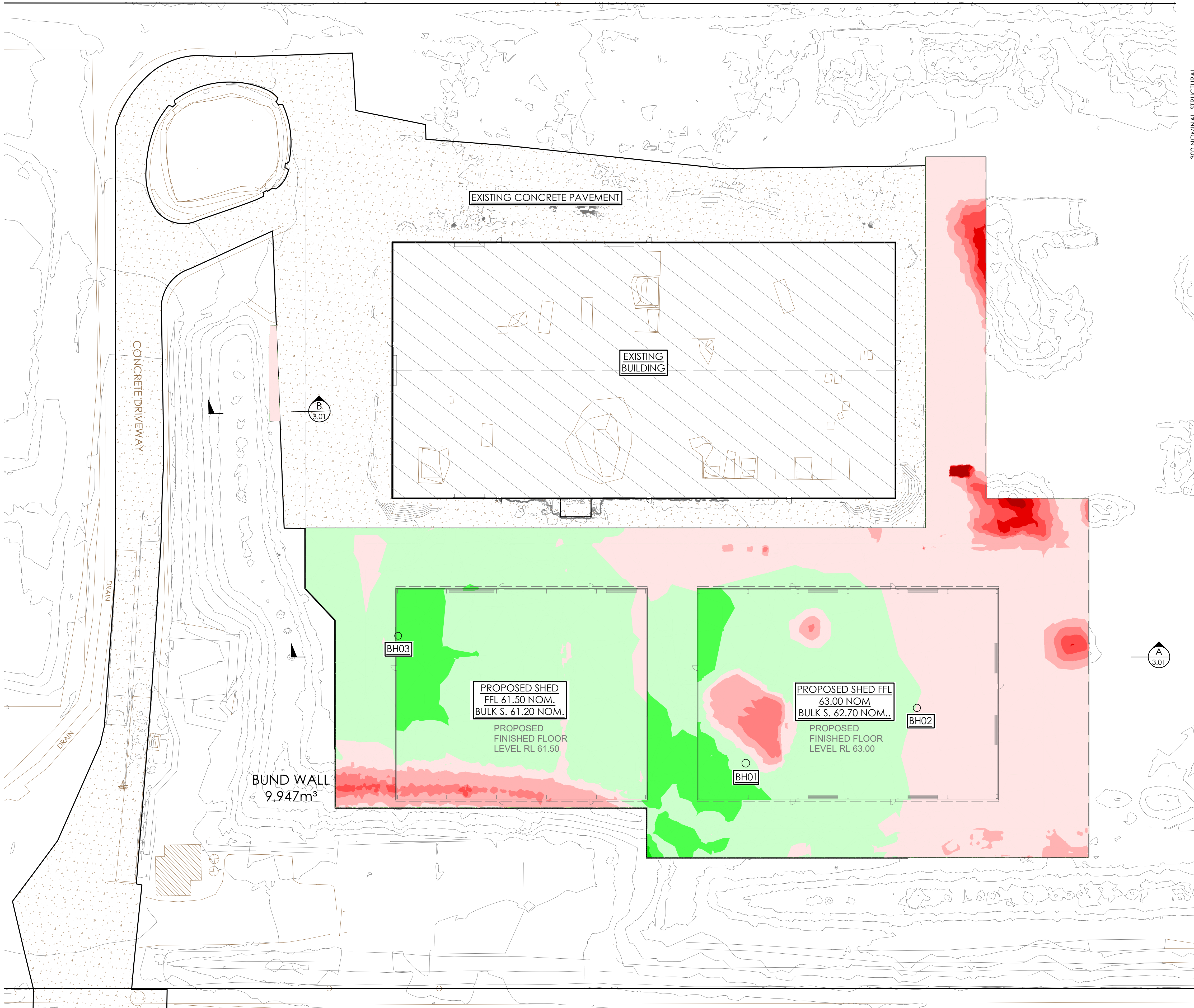
PROJECT No.

TX16593.00 - C2.01

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ISSUE

B



CONCEPT BULK EARTHWORKS DETAIL

SCALE NTS
* BULK EARTHWORKS LEVEL IS SUBJECT TO SLAB AND BEDDING DESIGN BY STRUCTURAL ENGINEER. 300mm DEPTH HAS BEEN ADOPTED FOR THE PURPOSE OF PRODUCING CONCEPT VOLUME CALCULATIONS

ALLOTMENT FILLING

ALL ALLOTMENT FILLING TO BE PLACED & COMPACTED AS SPECIFIED AND CONFORMING TO AS2870 - LEVEL 2 SUPERVISION (UNO).

EARTHWORKS

- THIS PLAN IS TO BE COORDINATED WITH THE STRUCTURAL ENGINEERS DETAILS AND SPECIFICATIONS AT CONSTRUCTION CERTIFICATE AND DETAILED DESIGN STAGE.
- TRIAxIAL CONSULTING HAVE CREATED A 3D MODEL TO GENERATE THE CONCEPT DESIGN AND EARTHWORKS SURFACES. THE MODEL HAS BEEN CREATED FOR DESIGN PURPOSES ONLY. ANY DIGITAL FILES ISSUED BY TRIAXIAL FOR THIS PROJECT ARE FOR INFORMATION ONLY AND ARE NOT TO BE USED AS A CONSTRUCTION MODEL OR FOR FINAL SETOUT. ALL FILES PROVIDED ARE TO BE VERIFIED BY A REGISTERED SURVEYOR PRIOR TO UNDERTAKING ANY SETOUT.

CONCEPT EARTHWORKS VOLUMES

VOLUMES HAVE BEEN TAKEN FROM 300mm BELOW THE NOMINATED FINISHED SURFACE LEVELS (ASSUMED 200TK REINFORCED CONCRETE SLAB + 100TK BEDDING). FINAL PROFILING TO BE CONFIRMED.

BULK EARTHWORKS CALCULATIONS EXCLUDE OVER EXCAVATION AND FILL PAVEMENT WITH REGARD TO LANDFILL LAYER INTERACTION. REFER TO SHEET C3.01 AND GEOTECHNICAL REPORT

THE VALUES BELOW ARE CONCEPTUAL AND ARE SUBJECT TO GEOTECHNICAL ENGINEERS RECOMMENDATIONS AND STRUCTURAL SLAB DETAILS.

TOTAL CUT= 4023m³

CUT TO FILL=2981m³

IMPORT FILL= 1042m³

SURFACE ANALYSIS: ELEVATION RANGES

NUMBER	COLOUR	MINIMUM ELEVATION (m)	MAXIMUM ELEVATION (m)
1		-5.901	-5.000
2		-5.000	-4.000
3		-4.000	-3.000
4		-3.000	-2.000
5		-2.000	-1.000
6		-1.000	0.000
7		0.000	1.000
8		1.000	2.000
9		2.000	2.200

NOTE

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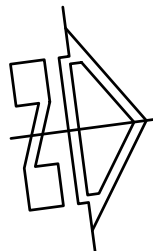
SCALE 1:400 AT A1 SHEET | 1:800 AT A3 SHEET

CONCEPT BULK EARTHWORKS PLAN

SCALE 1:400 AT A1

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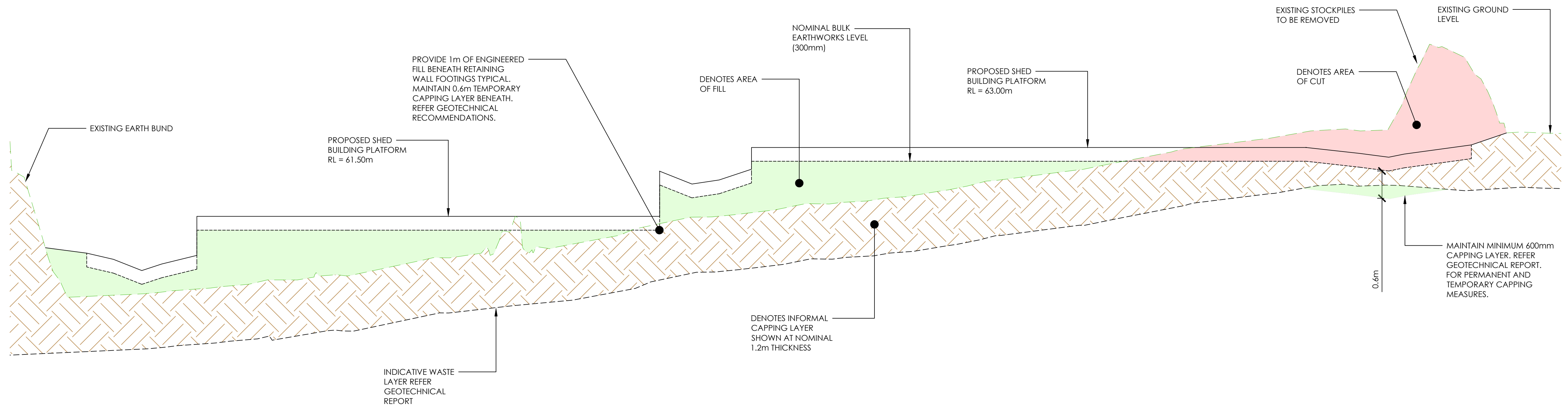
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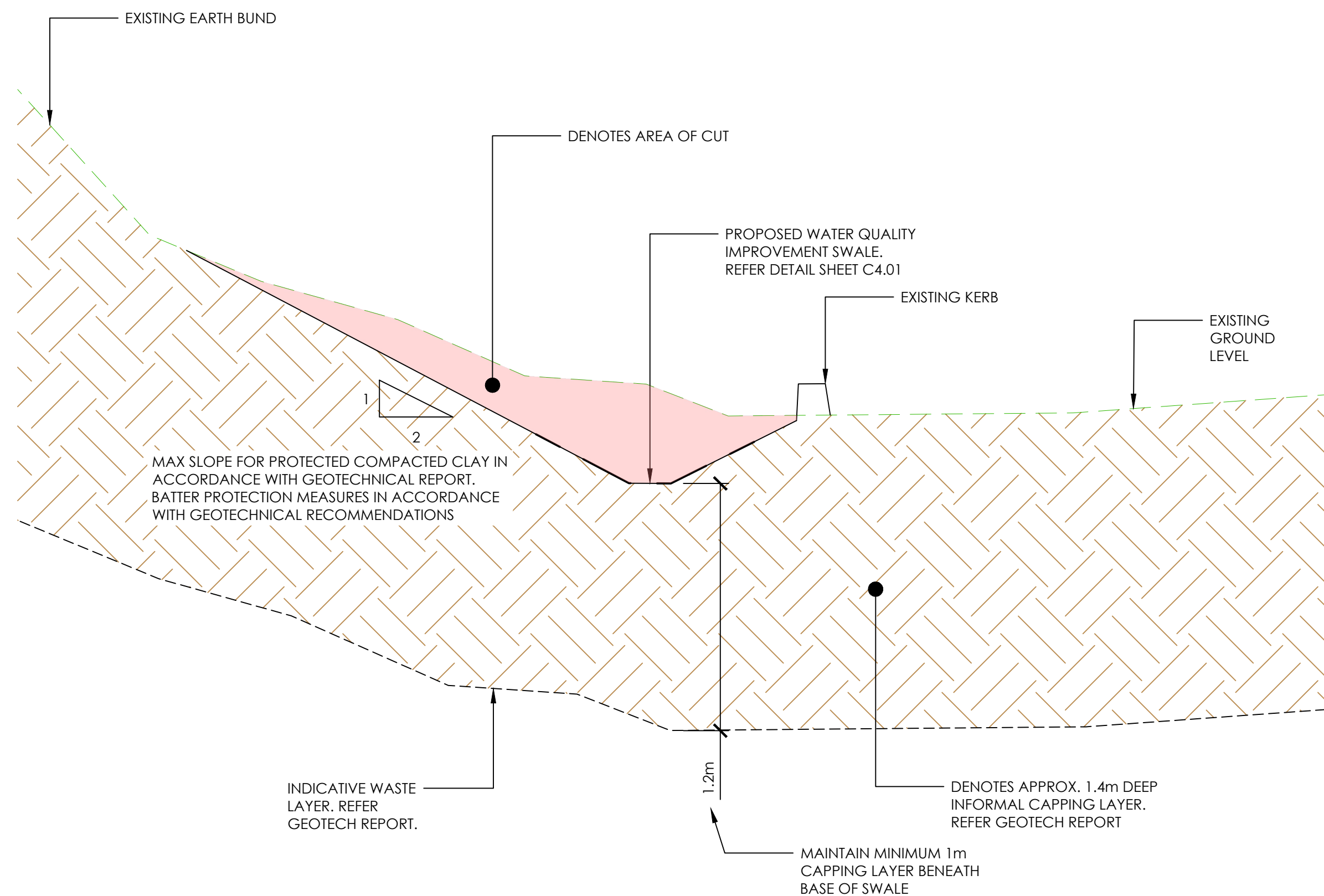
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CONCEPT BULK EARTHWORKS
PLAN

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SECTION A
A1 SCALE 1:250
5 X VERTICAL EXAGGERATION



SECTION B
A1 SCALE 1:20



2.5m 0.0 5.0 10.0 15.0 20.0 25.0m
SCALE 1:250 AT A1 SHEET | 1:500 AT A3 SHEET

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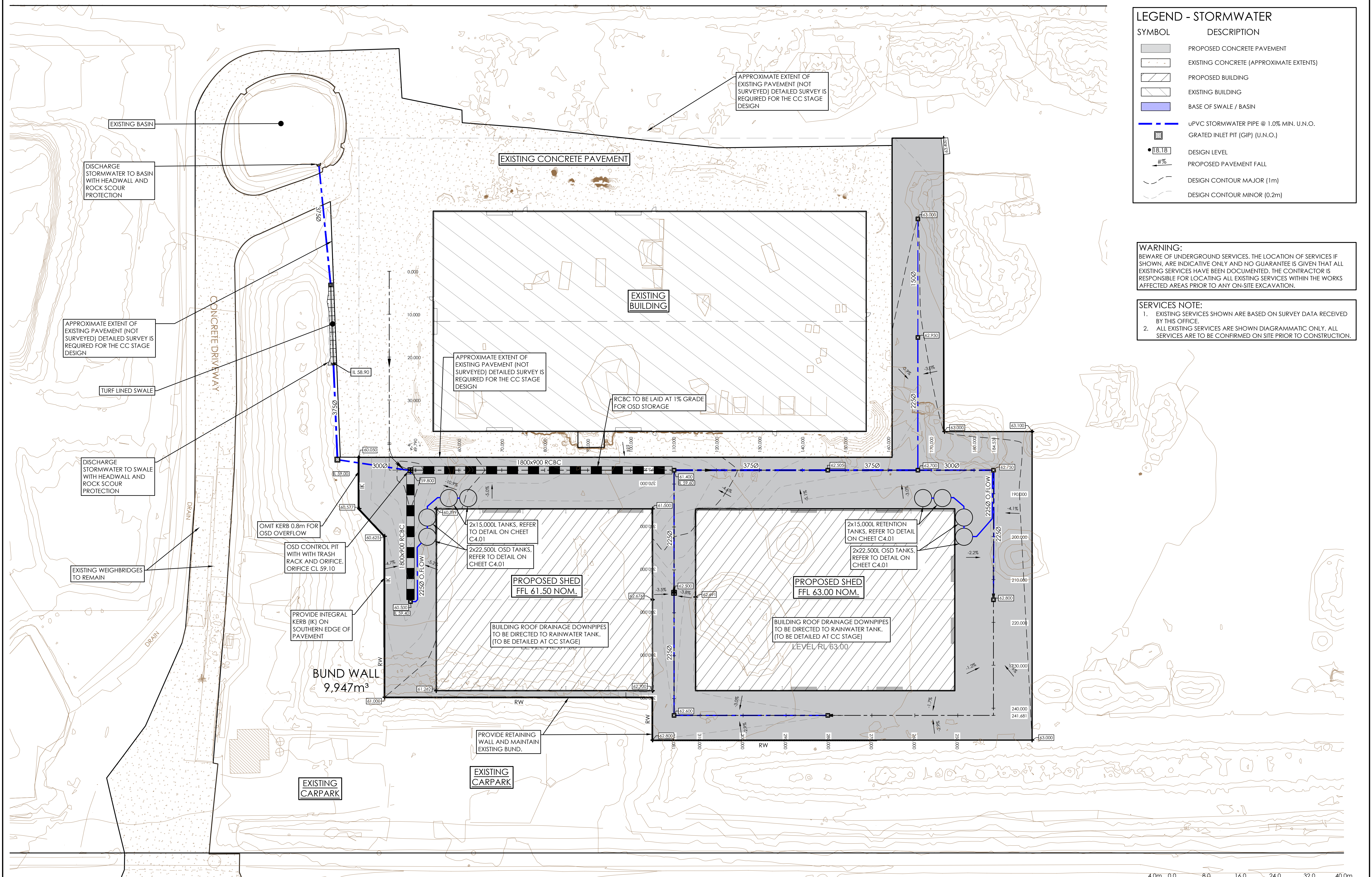
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CONCEPT BULK EARTHWORKS
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PROJECT No. TX16593.00 - C3.01
DRAWING No. B
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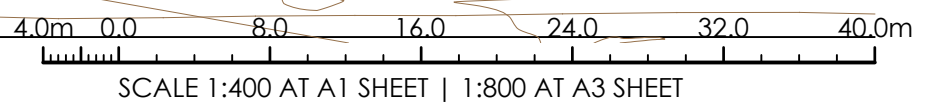


LEGEND - STORMWATER	
SYMBOL	DESCRIPTION
	PROPOSED CONCRETE PAVEMENT
	EXISTING CONCRETE (APPROXIMATE EXTENTS)
	PROPOSED BUILDING
	EXISTING BUILDING
	BASE OF SWALE / BASIN
	UPVC STORMWATER PIPE @ 1.0% MIN. U.N.O.
	GRATED INLET PIT (GIP) (U.N.O.)
	DESIGN LEVEL
	PROPOSED PAVEMENT FALL
	DESIGN CONTOUR MAJOR (1m)
	DESIGN CONTOUR MINOR (0.2m)

WARNING:
BEWARE OF UNDERGROUND SERVICES. THE LOCATION OF SERVICES IF SHOWN, ARE INDICATIVE ONLY AND NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES HAVE BEEN DOCUMENTED. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE WORKS AFFECTED AREAS PRIOR TO ANY ON-SITE EXCAVATION.

SERVICES NOTE:
1. EXISTING SERVICES SHOWN ARE BASED ON SURVEY DATA RECEIVED BY THIS OFFICE.
2. ALL EXISTING SERVICES ARE SHOWN DIAGRAMMATIC ONLY. ALL SERVICES ARE TO BE CONFIRMED ON SITE PRIOR TO CONSTRUCTION.

STORMWATER MANAGEMENT PLAN
SCALE 1:400 AT A1



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AMENDMENTS

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RESOLVED SIMPLY

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SUITE 12, LEVEL 14, 327 PITT STREET, SYDNEY NSW 2000
PO BOX A203, SYDNEY SOUTH NSW 1235

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DRAWING TITLE
CONCEPT STORMWATER
MANAGEMENT PLAN

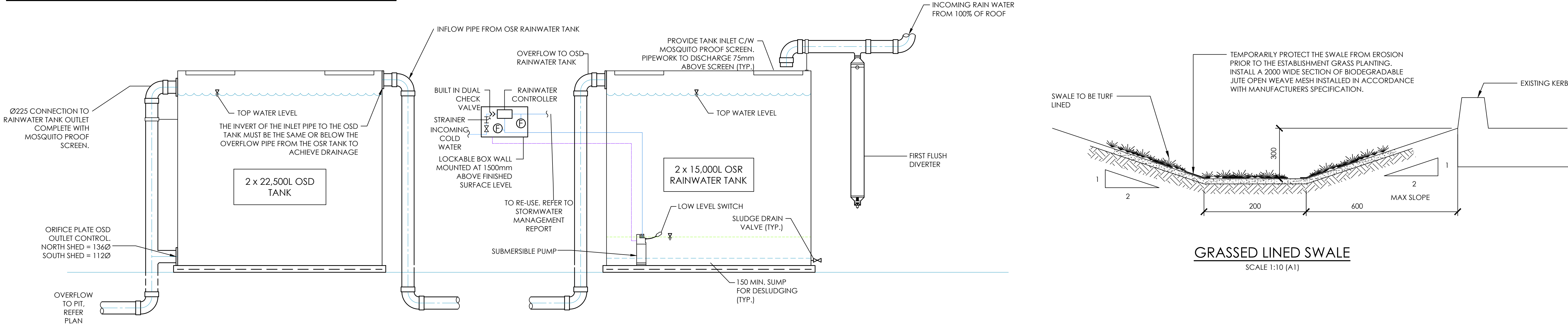
PROJECT No.
TX16593.00 - C4.00

DRAWING No.
D

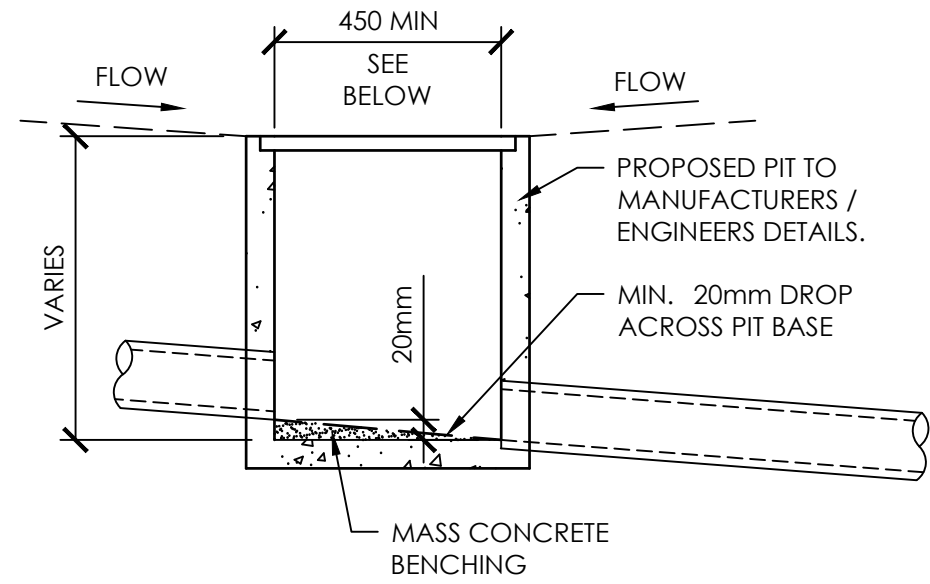
ISSUE

OSD SUMMARY		
STORM (AEP %)	PRE-DEVELOPMENT PEAK RUNOFF (L/sec.)	POST-DEVELOPMENT PEAK RUNOFF (L/sec.)
20	114	114
10	154	151
5	196	185
2	256	254
1	306	306

WATER QUALITY MODELLING RESULTS		
POLLUTANT	TARGET (%)	DESIGN REDUCTION (%)
GP	90	100
TSS	85	94.1
TN	45	55.4
TP	60	74.7

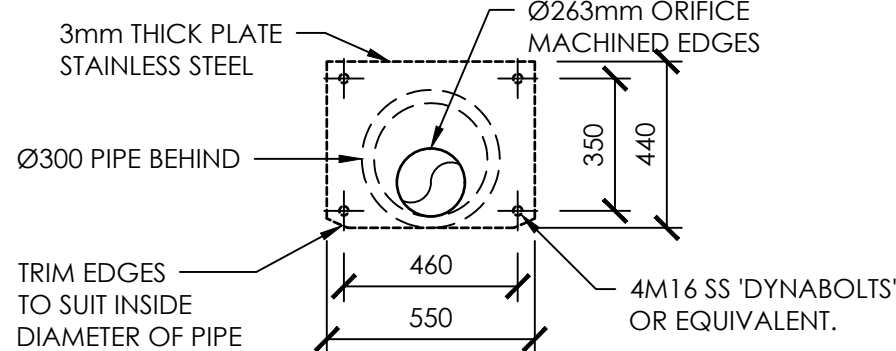


RAINWATER RE-USE AND OSD TANKS DETAIL
N.T.S.

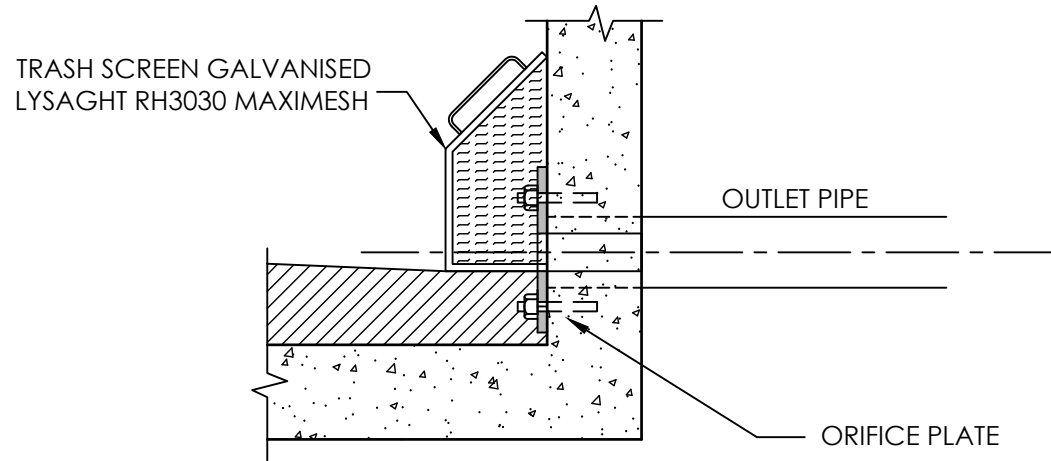


TYPICAL GRATED SURFACE INLET
PIT DETAIL
N.T.S.

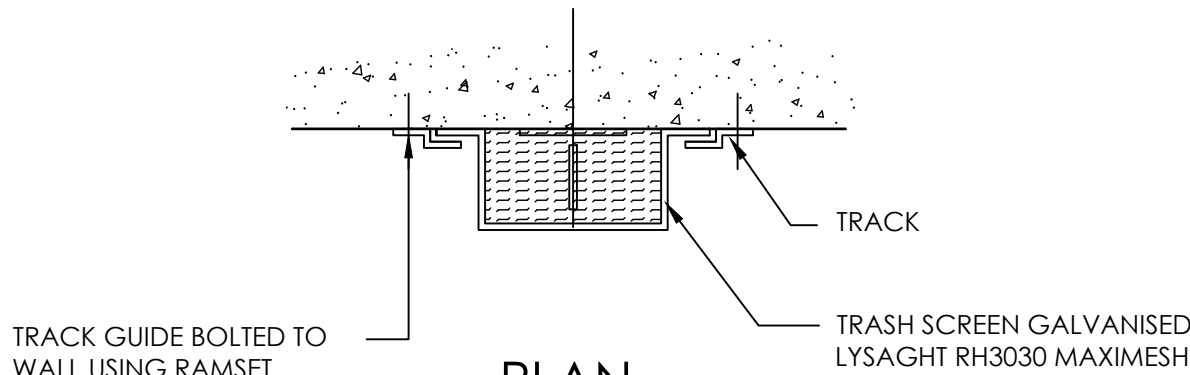
450 X 450 PLAN INTERNAL PIT DIMENSIONS FOR PITS LESS THAN 600 DEEP
600 X 600 PLAN INTERNAL PIT DIMENSIONS FOR PITS LESS THAN 900 DEEP
600 X 900 PLAN INTERNAL PIT DIMENSIONS FOR PITS 900 TO 1200 DEEP
900 X 900 PLAN INTERNAL PIT DIMENSIONS FOR PITS GREATER THAN 1200 DEEP
NOTE: STORMWATER PITS LESS THAN 600 SQUARE AND 600 DEEP MAY BE REPLACED WITH PLASTIC PITS IF NOT LOCATED IN ROADWAYS AND WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER.



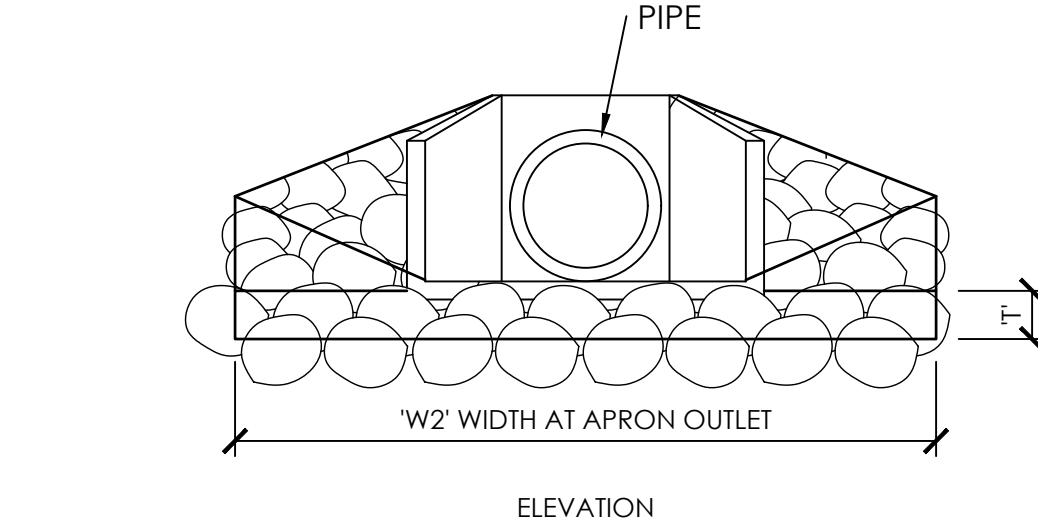
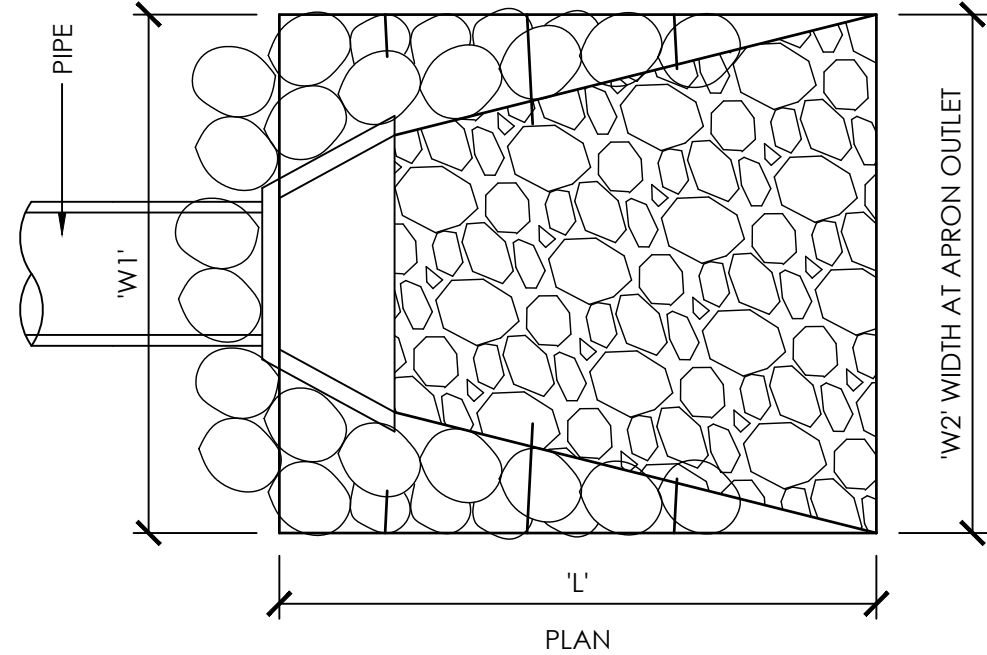
ORIFICE PLATE DETAIL
SCALE 1:20 AT A1



SIDE VIEW CROSS SECTION

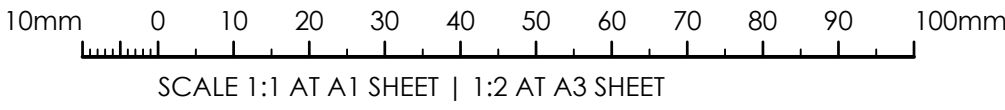


MAXIMESH TRASH SCREEN DETAIL
SCALE NTS



ROCK SCOUR PROTECTION HEADWALL DETAIL
N.T.S.

DESCRIPTION		ROCK SIZES		L	W1	W2	THICKNESS T
		D ₅₀	D ₁₀				
OUTLET		TBC	TBC	TBC	TBC	TBC	TBC



REISSUE FOR DA	IS.O	D	16.02.23	NORTH POINT U.N.O.
ISSUED FOR REVIEW	IS.O	C	15.02.23	
ISSUED FOR DA - MINOR STORMWATER REVISION	CW	B	11.08.22	
ISSUED FOR DA	CW	A	10.08.22	
AMENDMENTS	DATE	ISSUE	BY	

NOT FOR CONSTRUCTION

ARCHITECT
APEX BUILDING
BUILDING SYSTEMS PTY LTD

CLIENT
JACKSON
ENVIRONMENTAL AND PLANNING

PROJECT
SYDNEY RECYCLING PARK
16-23 CLIFTON AVE
KEMPS CREEK NSW

DESIGNED BK
DRAWN CW
DATE AUG 22
SIZE A1
CAD REF TX16593.00 - C2



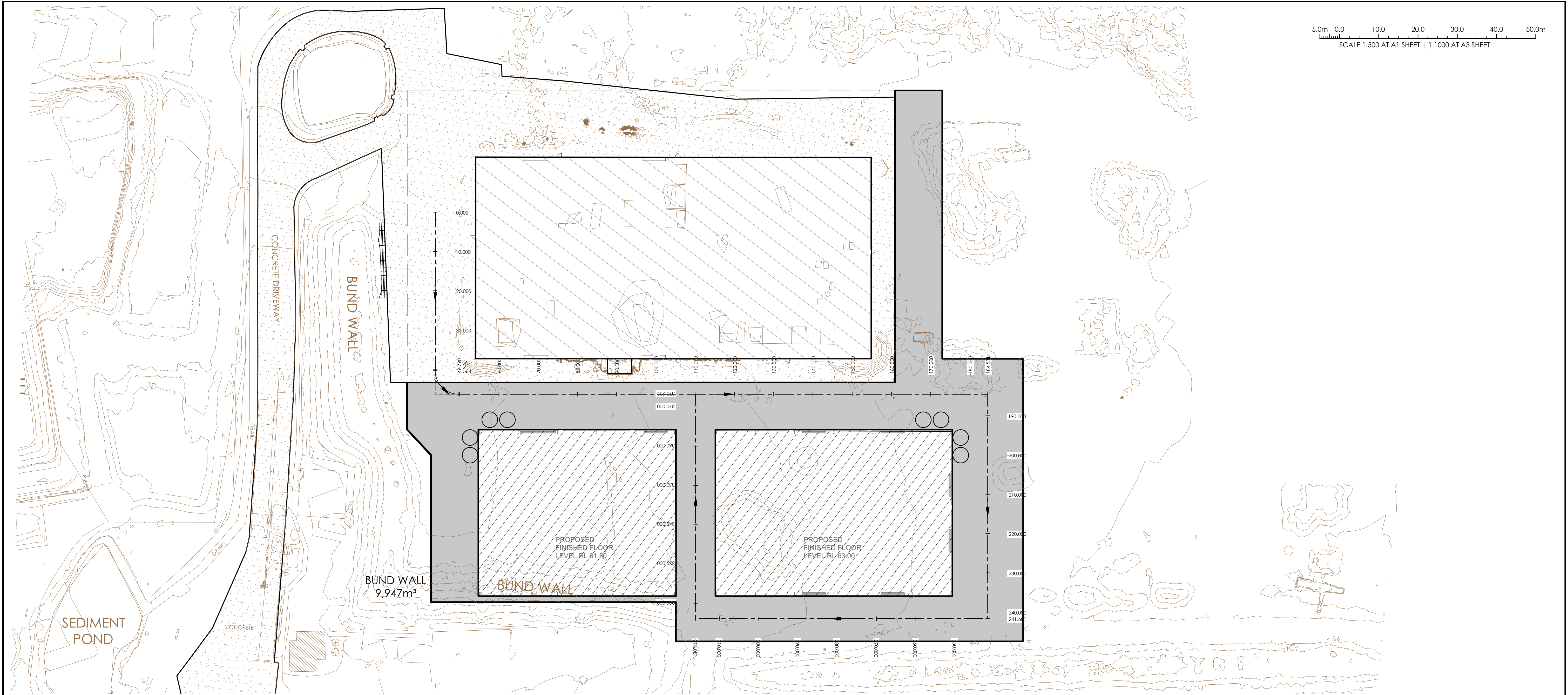
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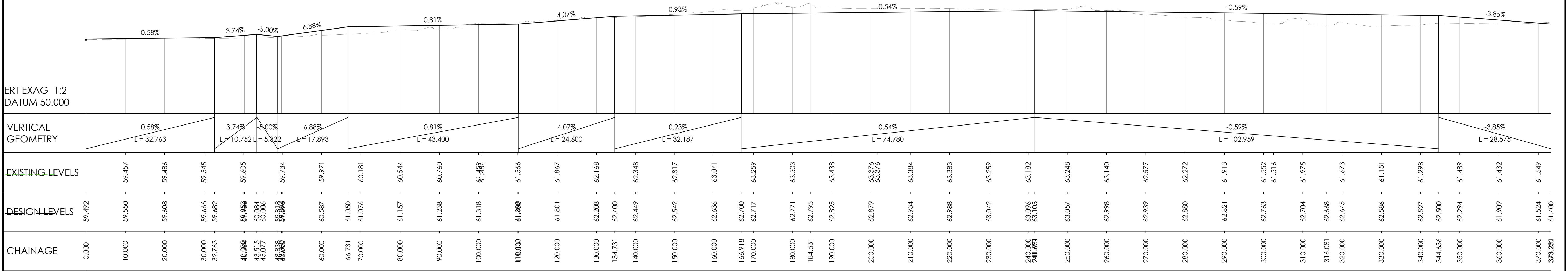
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DRAWING TITLE
CONCEPT STORMWATER
MANAGEMENT DETAILS

PROJECT No. TX16593.00 - C4.01
DRAWING No. D
ISSUE



CONCEPT DRIVEWAY PLAN
SCALE 1:500 AT A1



REISSUE FOR DA
ISSUED FOR REVIEW
ISSUED FOR DA - MINOR STORMWATER REVISION
ISSUED FOR DA
AMENDMENTS

IS.O
IS.O
CW
CW
DATE

D 16.02.23
C 15.02.23
B 11.08.22
A 10.08.22
ISSUE BY

24

ARCHITECT
APEX BUILDING
BUILDING SYSTEMS PTY LTD

CLIENT
JACKSON
ENVIRONMENTAL AND PLANNING

PROJECT
SYDNEY RECYCLING PARK
16-23 CLIFTON AVE
KEMPS CREEK NSW

DESIGNED BK
DRAWN CW
DATE AUG 22
SIZE A1
CAD REF TX16593.00 - C5

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DRAWING TITLE
CONCEPT DRIVEWAY PLAN AND
LONG SECTION

PROJECT No.
TX16593.00 - C5.00

DRAWING No.
D

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