



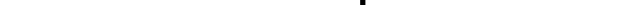
CIVIL ENGINEERING PACKAGE TENDER SUBMISSION



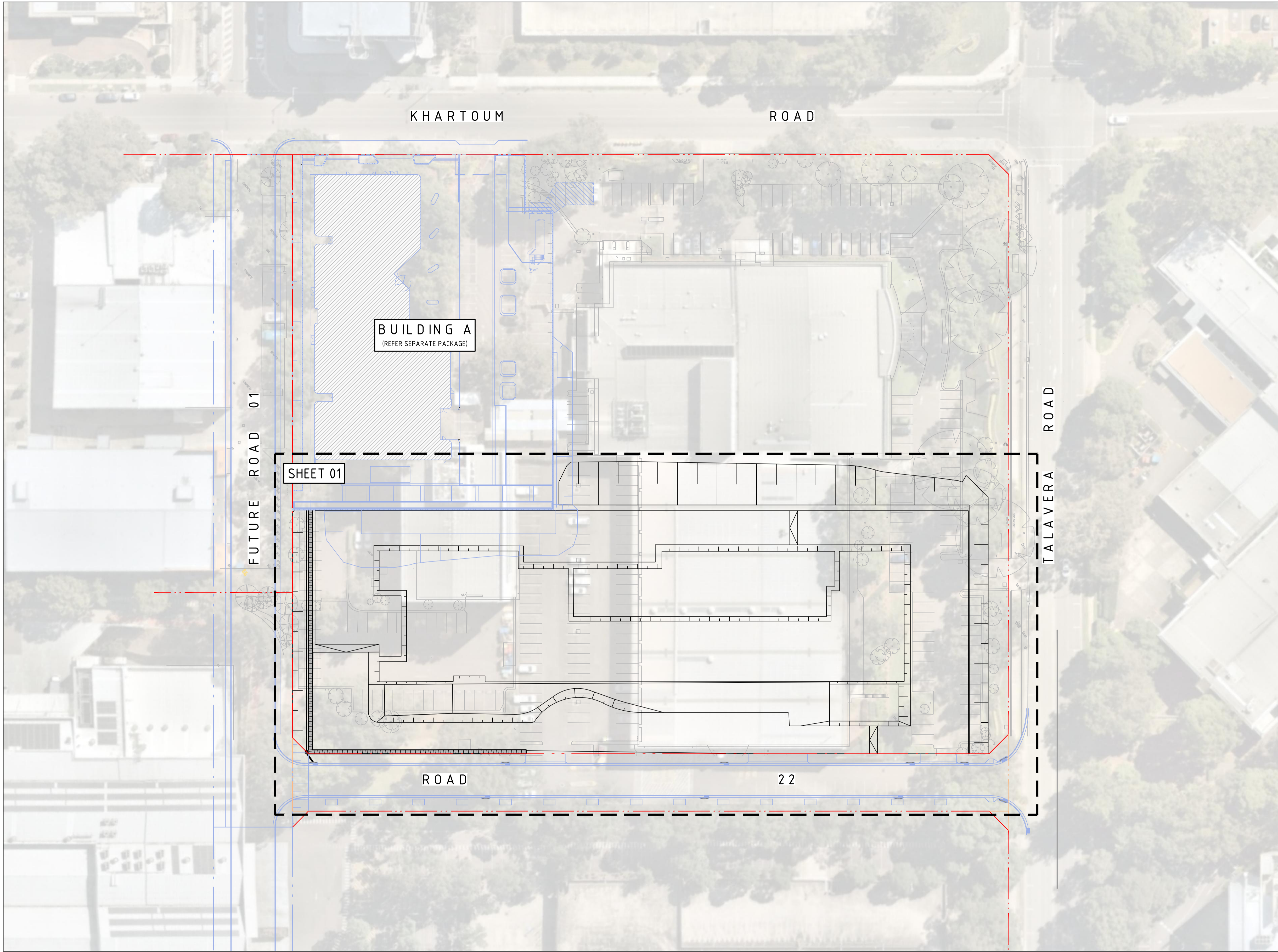
SOURCE : NEARMAP.COM.AU (©2020)

DWG No.	DRAWING TITLE
C301.01	COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN
C301.11	SPECIFICATION NOTES - SHEET 01
C301.21	GENERAL ARRANGEMENT PLAN
C302.01	SEDIMENT AND SOIL EROSION CONTROL PLAN
C302.11	SEDIMENT AND SOIL EROSION CONTROL DETAILS
C303.01	BULK EARTHWORKS CUT TO FILL PLAN
C303.06	BULK EARTHWORKS PLAN
C303.11	BULK EARTHWORKS CUT/FILL SECTIONS - SHEET 01
C303.12	BULK EARTHWORKS CUT/FILL SECTIONS - SHEET 02
C303.13	BULK EARTHWORKS CUT/FILL SECTIONS - SHEET 03
C303.14	BULK EARTHWORKS CUT/FILL SECTIONS - SHEET 04
C306.01	RETAINING WALL ALIGNMENT CONTROL PLAN
C306.21	RETAINING WALL ELEVATIONS - SHEET 01
C312.01	DETAILS - SHEET 01

DRAWN: C. PASKE	DESIGNED: B. FIELD	JOB MANAGER: M. SANTIAGO	VERIFIER: S. FRYER
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REVISION		DESCRIPTION				ISSUED	VER'D	APP'D	DATE	CLIENT		SYDNEY		PROJECT		DRAWING TITLE		JOB NUMBER			
A		ISSUE FOR TENDER				JO	-	MS	16.11.20	 <div>Stockland</div>		 <div>Sydney Level 11 345 George Street, Sydney NSW 2000 Ph (02) 9241 4188 Fax (02) 9241 4324 Email sydney@northrop.com.au ABN 81 094 433 100</div>		M_PARK - BUILDING B 33 TALAUERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK		CIVIL ENGINEERING PACKAGE TENDER SUBMISSION COVER SHEET, DRAWING SCHEDULE AND LOCALITY PLAN		171708-07			
										DRAWING NOT TO BE USED FOR CONSTRUCTION UNLESS VERIFIED AND SIGNATURE HAS BEEN ADDED.		THE COPYRIGHT OF THIS DRAWING REMAINS WITH NORTHROP CONSULTING ENGINEERS PTY LTD		SCALE 1:2000 @ A1 				DRAWING NUMBER C301.01		REVISION A	
DRAWING SHEET SIZE = A1																					

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER



LEGEND

PROPOSED BOUNDARY LINE

EXISTING BOUNDARY LINE

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SCALE 1:500@ A1

05

10

15

20

25m

Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324

Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

M_PARK - BUILDING B

33 TALAVERA ROAD & 11-17 KHARTOUM ROAD

MACQUARIE PARK

DRAWING TITLE

CIVIL ENGINEERING PACKAGE

TENDER SUBMISSION

GENERAL ARRANGEMENT PLAN

JOB NUMBER

171708-07

DRAWING NUMBER

C301.21

REVISION

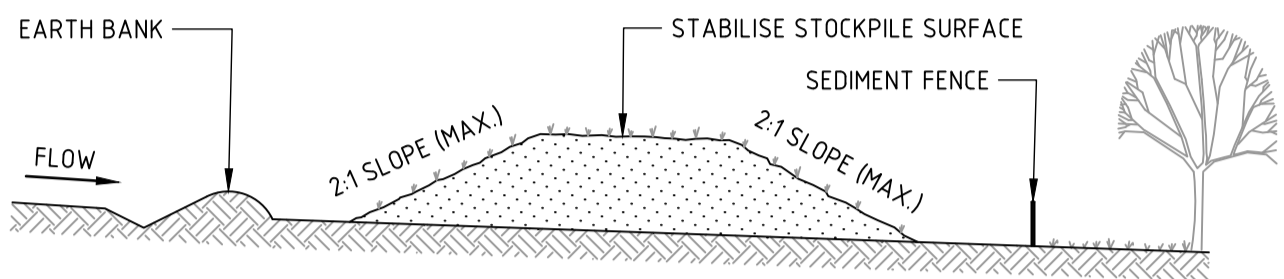
A

DRAWING SHEET SIZE = A1

NOT FOR CONSTRUCTION

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Printed By: J. D. W. G.
Date: 16/11/2020

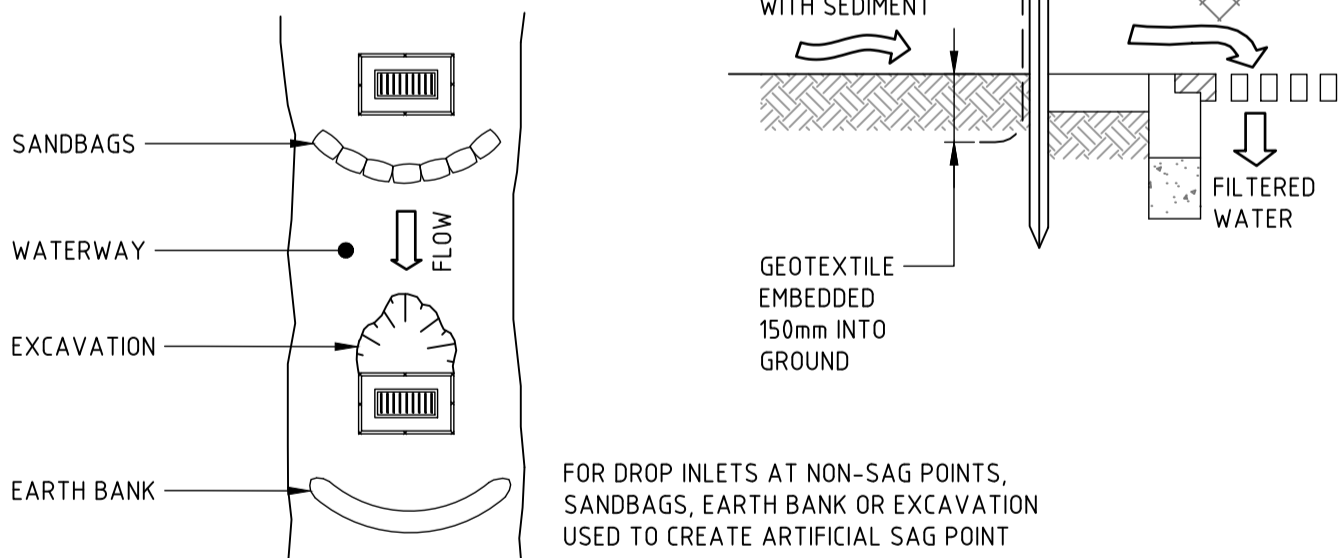
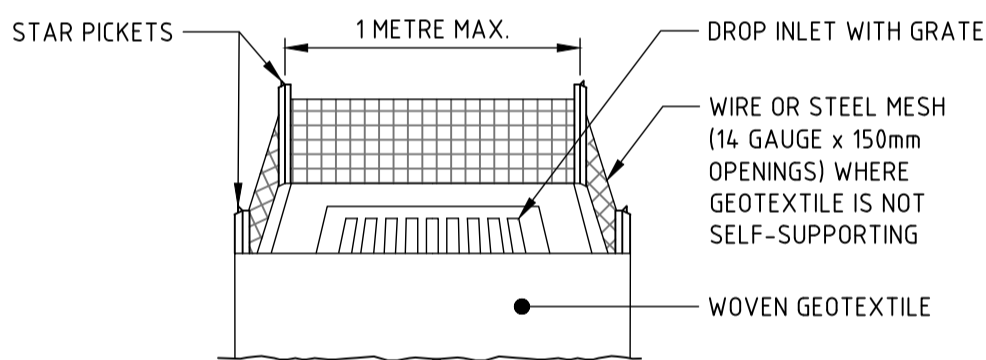
DESIGNED: B. FIELD
DRAWN: C. PASKE
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER



CONSTRUCTION NOTES

1. PLACE STOCKPILES MORE THAN 2m (PREFERABLY 5m) 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 2m 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 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2m DOWNSLOPE.

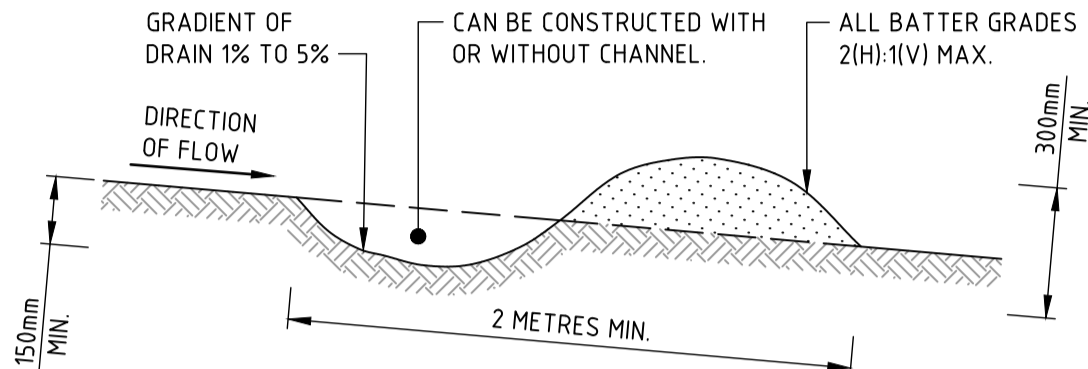
STOCKPILES (SD 4-1)



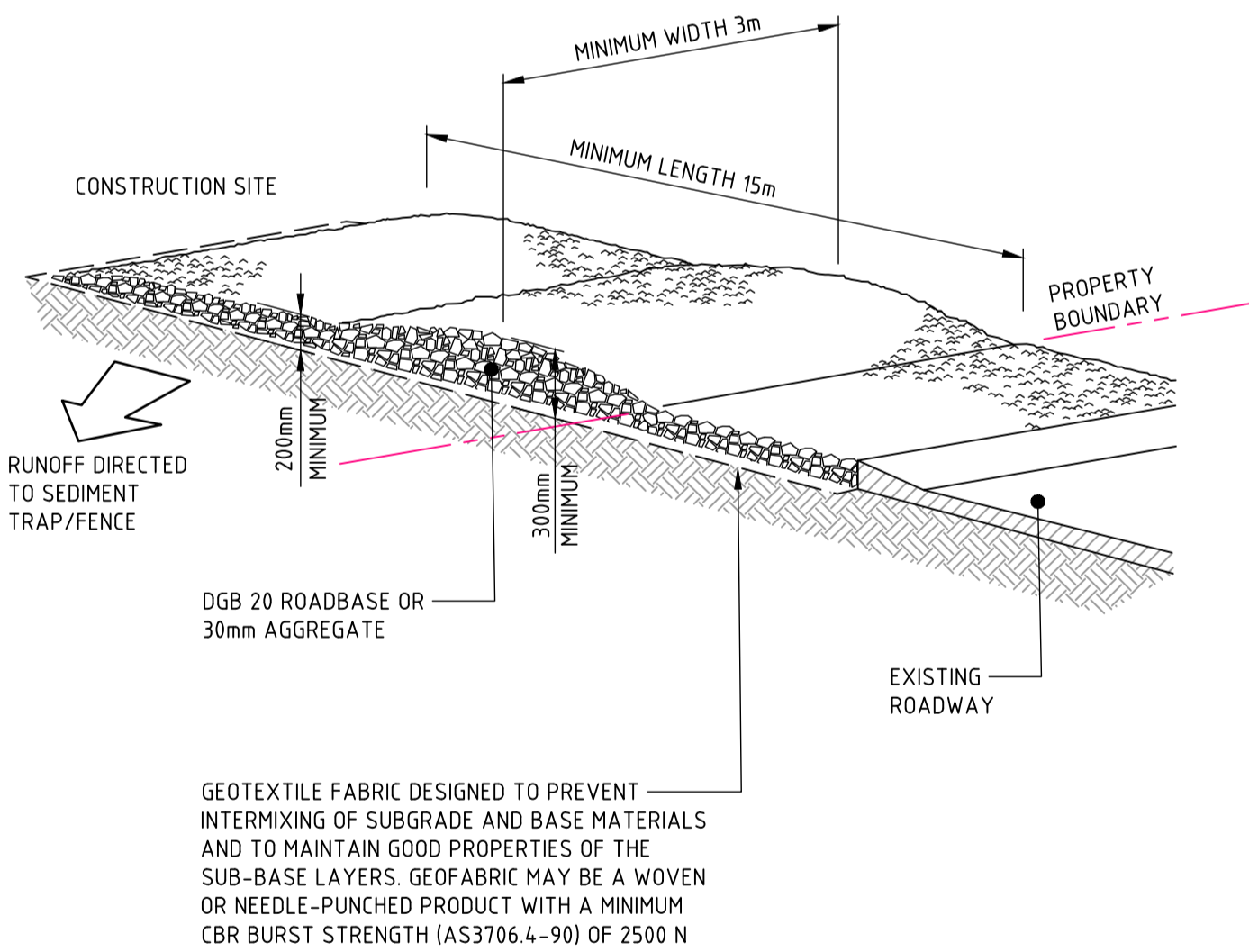
CONSTRUCTION NOTES

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 THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER (SD 6-12)



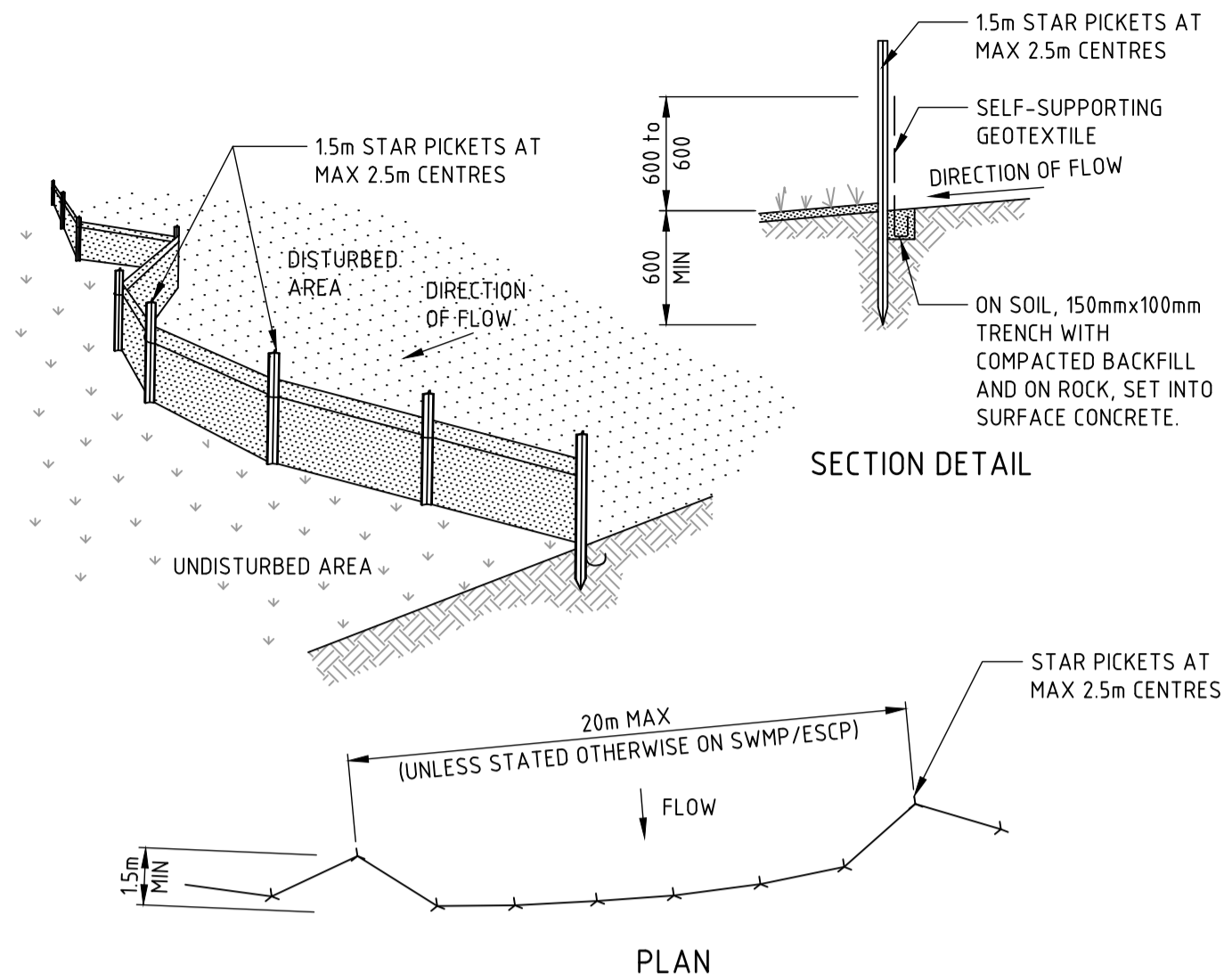
EARTH BANK - LOW FLOW (SD 5-5)



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.

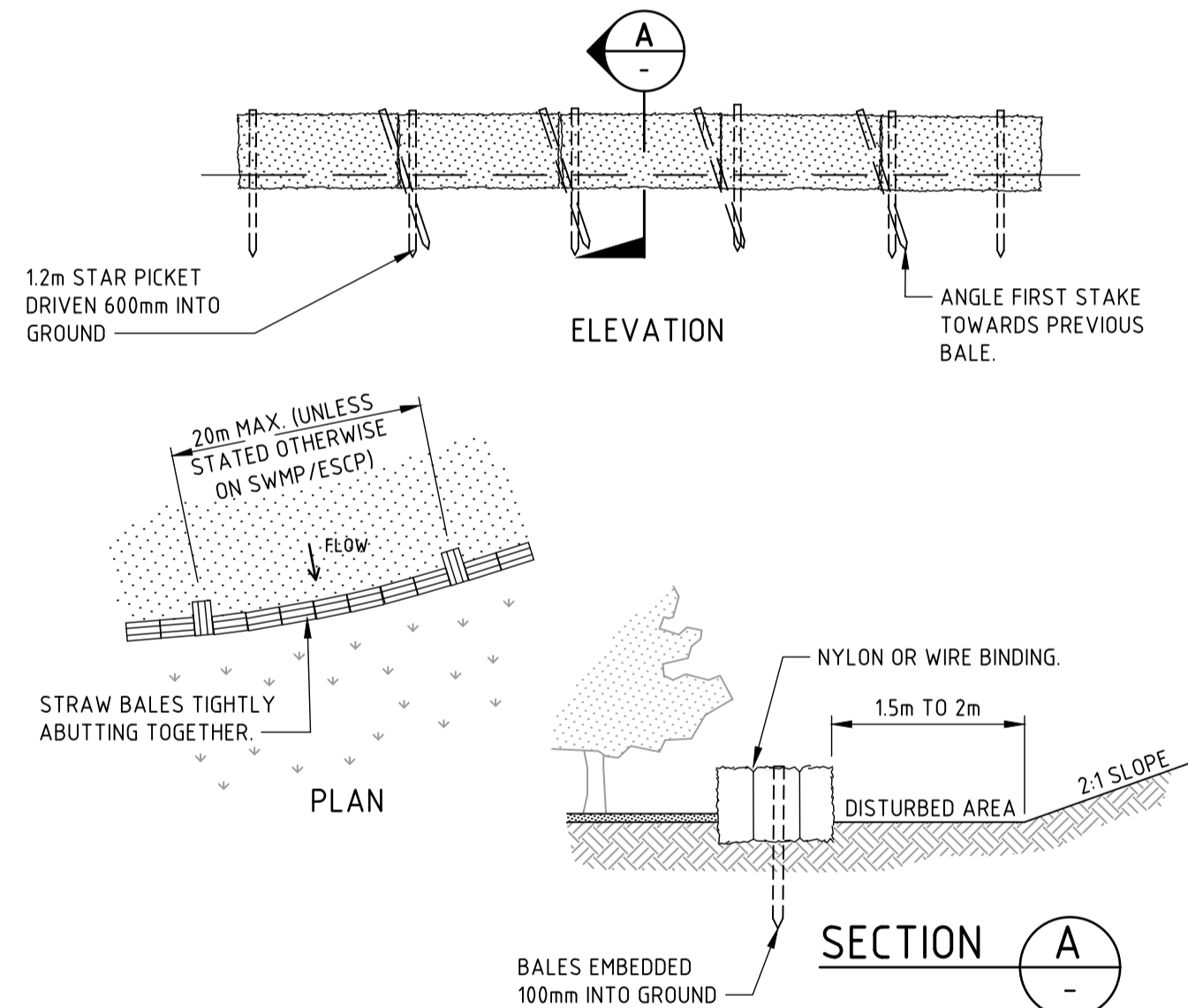
STABILISED SITE ACCESS (SD 6-14)



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 150mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 15 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 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

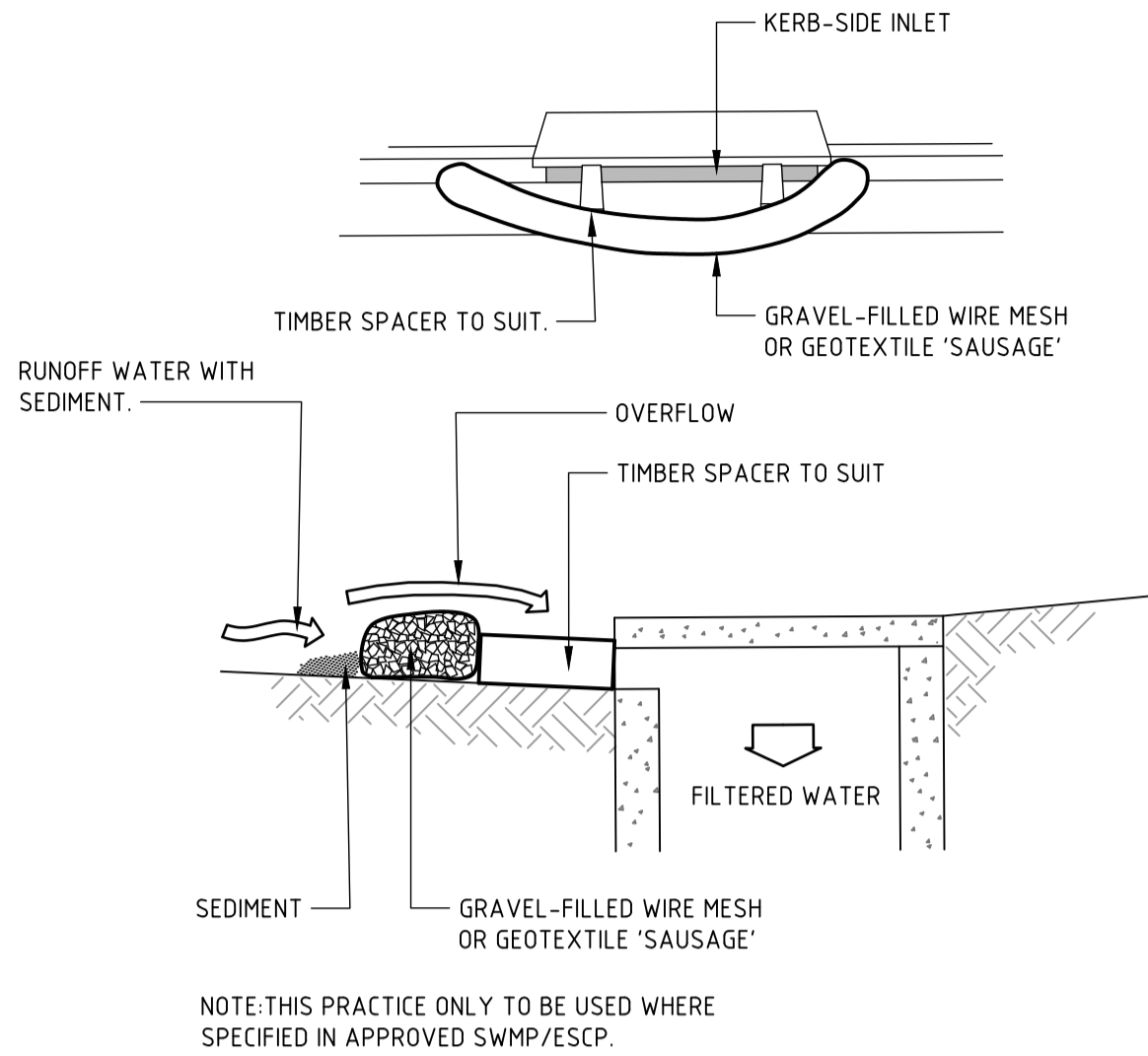
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. CONSTRUCT THE STRAW BALE FILTER AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE.
2. PLACE BALES LENGTHWISE IN A ROW WITH ENDS TIGHTLY ABUTTING. USE STRAW TO FILL ANY GAPS BETWEEN BALES. STRAWS ARE TO BE PLACED PARALLEL TO GROUND.
3. ENSURE THAT THE MAXIMUM HEIGHT OF THE FILTER IS ONE BALE.
4. EMBED EACH BALE IN THE GROUND 75mm TO 100mm AND ANCHOR WITH TWO 1.2 METRE STAR PICKETS OR STAKES. ANGLE THE FIRST STAR PICKET OR STAKE IN EACH BALE TOWARDS THE PREVIOUSLY LAID BALE. DRIVE THEM 600mm INTO THE GROUND AND, IF POSSIBLE, FLUSH WITH THE TOP OF THE BALES. WHERE STAR PICKETS ARE USED AND THEY PROTRUDE ABOVE THE BALES, ENSURE THEY ARE FITTED WITH SAFETY CAPS.
5. WHERE A STRAW BALE FILTER IS CONSTRUCTED DOWNSLOPE FROM A DISTURBED BATTER, ENSURE THE BALES ARE PLACED 1 TO 2 METRES DOWNSLOPE FROM THE TOE.
6. ESTABLISH A MAINTENANCE PROGRAM THAT ENSURES THE INTEGRITY OF THE BALES IS RETAINED - THEY COULD REQUIRE REPLACEMENT EACH TWO TO FOUR MONTHS.

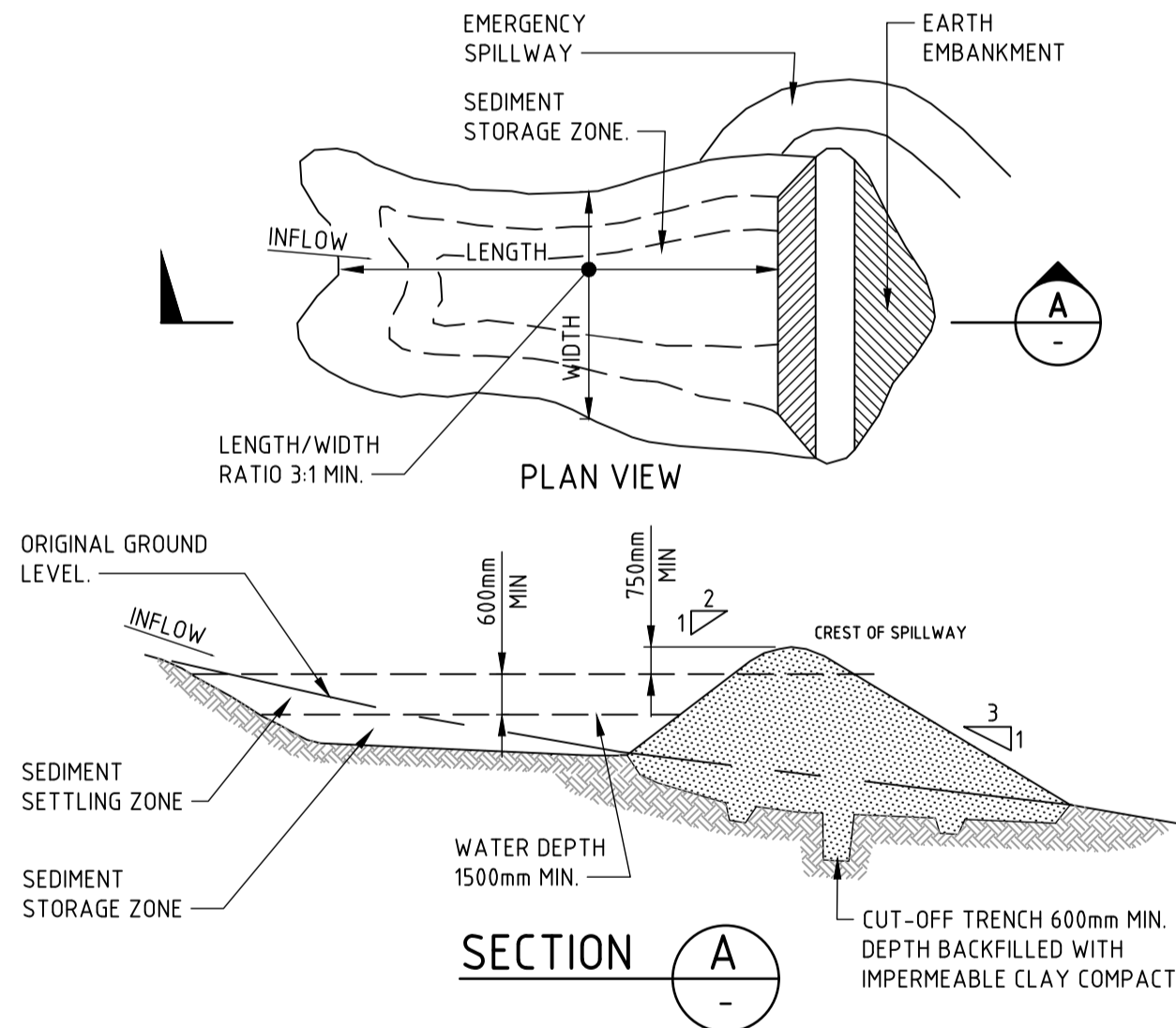
STRAW BALE FILTER



CONSTRUCTION NOTES

1. INSTALL FILTERS TO KERB INLETS ONLY AT SAG POINTS.
2. FABRICATE A SLEEVE MADE FROM GEOTEXTILE OR WIRE MESH LONGER THAN THE LENGTH OF THE INLET PIT AND FILL IT WITH 25mm TO 50mm GRAVEL.
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150mm HIGH x 400mm WIDE.
4. PLACE THE FILTER AT THE OPENING LEAVING AT LEAST A 100mm SPACE BETWEEN IT AND THE KERB INLET. MAINTAIN THE OPENING WITH SPACER BLOCKS.
5. FORM A SEAL WITH THE KERB TO PREVENT SEDIMENT BYPASSING THE FILTER.
6. SANDBAGS FILLED WITH GRAVEL CAN SUBSTITUTE FOR THE MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT-LADEN WATERS CANNOT PASS BETWEEN.

MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. REMOVE ALL VEGETATION AND TOPSOIL FROM UNDER THE DAM WALL AND FROM WITHIN THE STORAGE AREA.
2. CONSTRUCT A CUT-OFF TRENCH 500mm DEEP AND 1200mm WIDE ALONG THE CENTRELIN OF THE EMBANKMENT EXTENDING TO A POINT ON THE GULLY WALL LEVEL WITH THE RISER CREST.
3. MAINTAIN THE TRENCH FREE OF WATER AND RECOMPACT THE MATERIALS WITH EQUIPMENT AS SPECIFIED IN THE SWMP TO 95 PER CENT STANDARD PROCTOR DENSITY.
4. SELECT FILL FOLLOWING THE SWMP THAT IS FREE OF ROOTS, WOOD, ROCK, LARGE STONE OR FOREIGN MATERIAL.
5. PREPARE THE SITE UNDER THE EMBANKMENT BY RIPPING TO AT LEAST 100mm TO HELP BOND COMPACTED FILL TO THE EXISTING SUBSTRATE.
6. SPREAD THE FILL IN 100mm TO 150mm LAYERS AND COMPACT IT AT OPTIMUM MOISTURE CONTENT FOLLOWING THE SWMP.
7. CONSTRUCT THE EMERGENCY SPILLWAY.
8. REHABILITATE THE STRUCTURE FOLLOWING THE SWMP.

EARTH BASIN - WET

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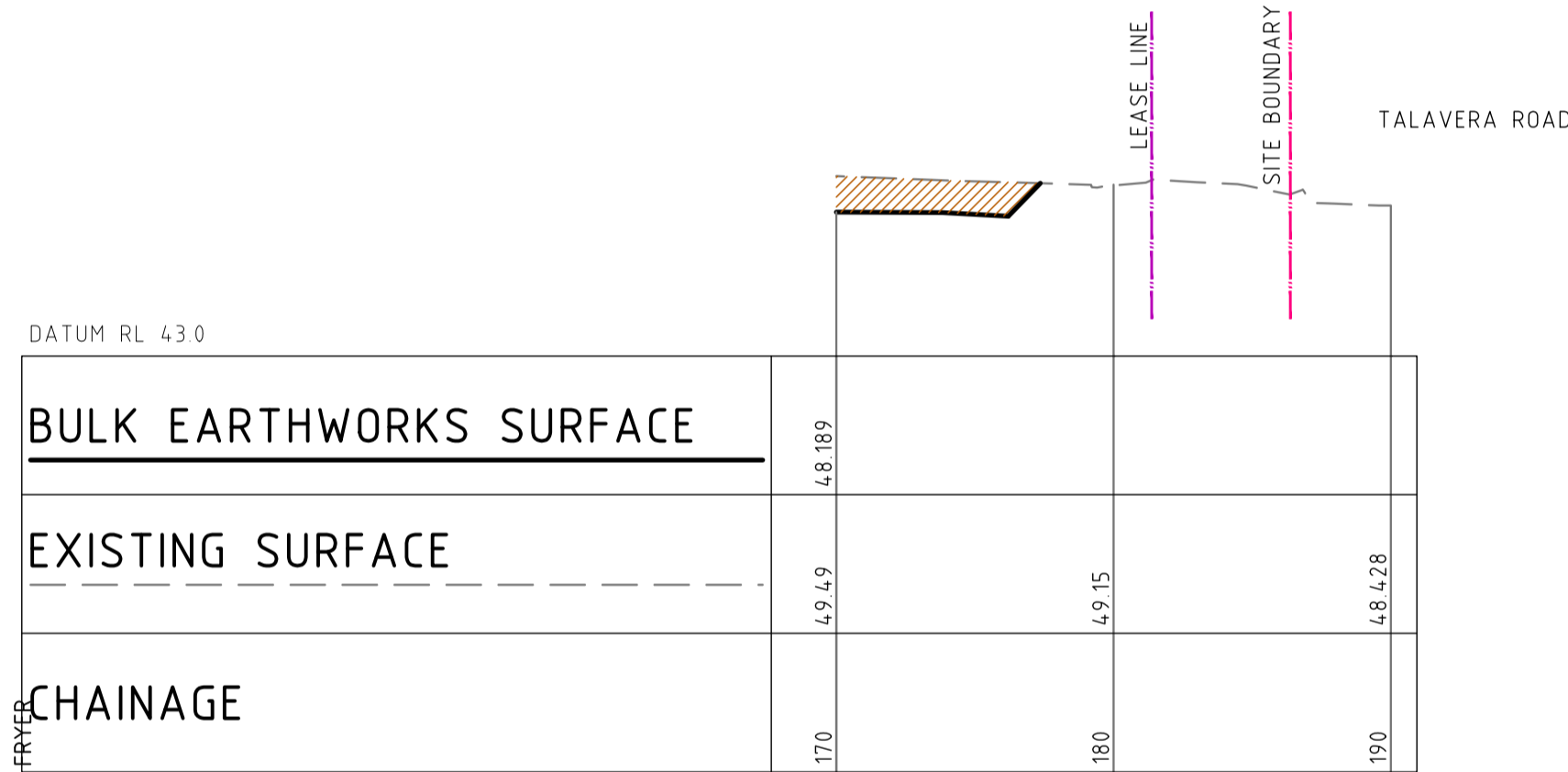
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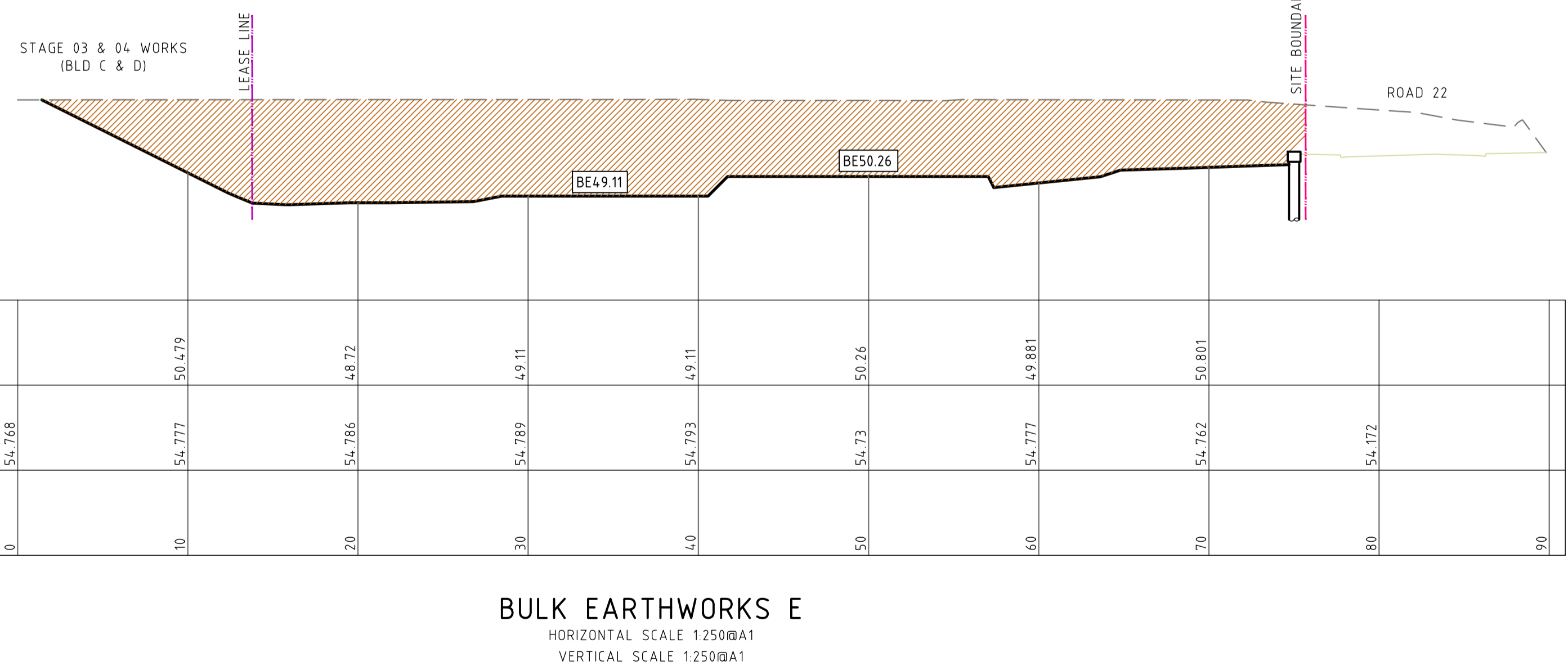
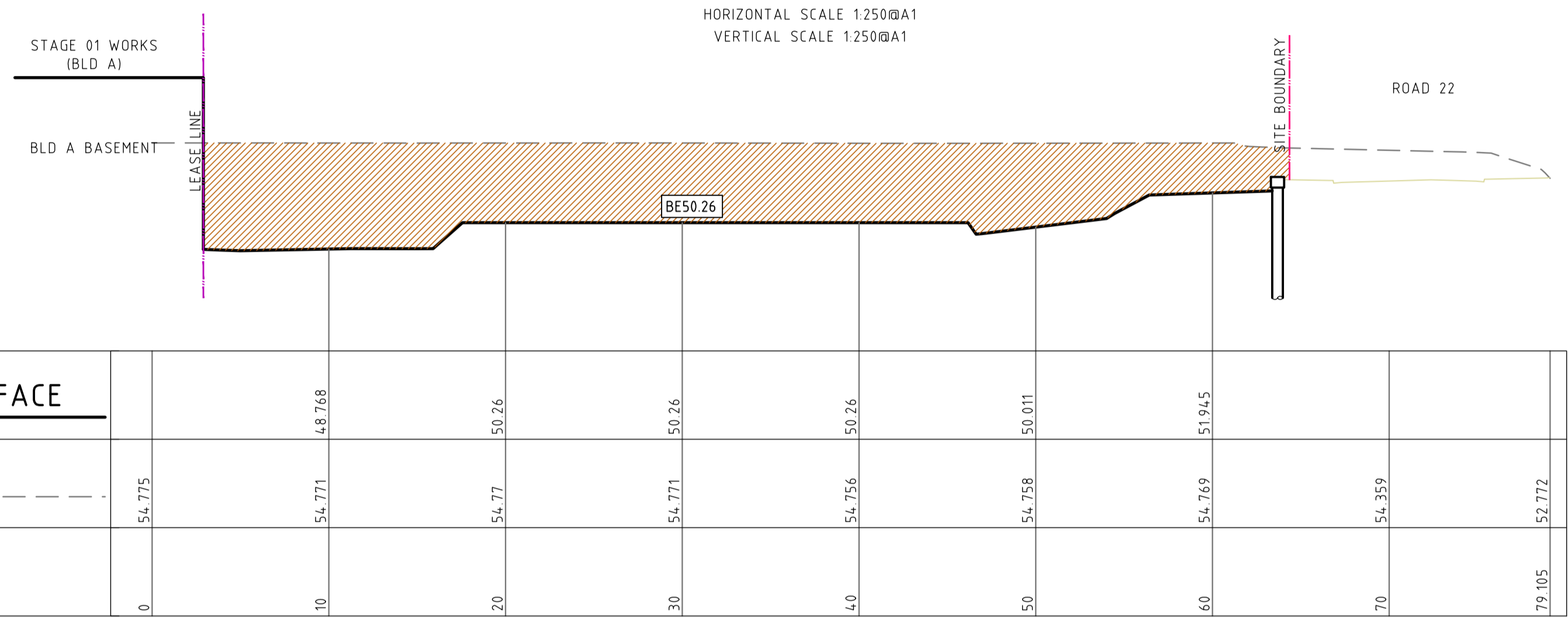
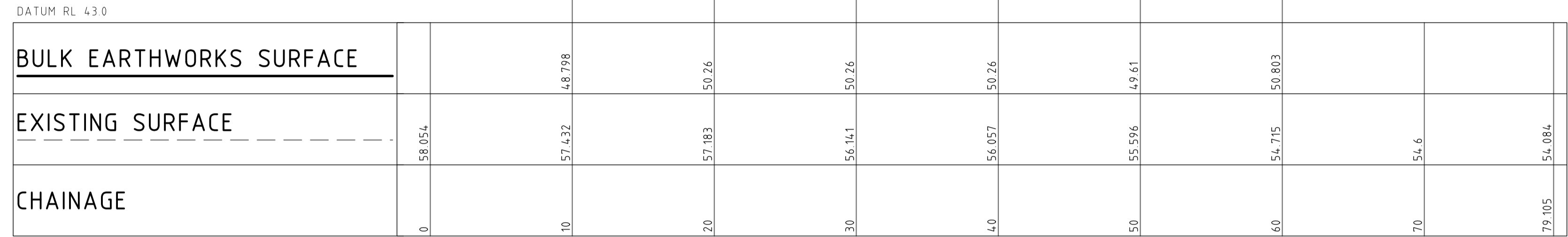
PROJECT
M_PARK - BUILDING B
33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE
CIVIL ENGINEERING PACKAGE TENDER SUBMISSION
SEDIMENT AND SOIL EROSION CONTROL DETAILS

JOB NUMBER 171708-07	REVISION A
DRAWING NUMBER C302.11	
DRAWING SHEET SIZE = A1	



BULK EARTHWORKS B
HORIZONTAL SCALE 1:250@A1
VERTICAL SCALE 1:250@A1



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SCALE 1:500 @ A1	<p>0 5 10 15 20 25m</p>
SCALE 1:100 @ A1	<p>0 1 2 3 4 5m</p>

 **NORTHROP**

Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324

Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

M_PARK - BUILDING B

**33 TALAVERA ROAD &
11-17 KHARTOUM ROAD
MACQUARIE PARK**

DRAWING TITLE


**CIVIL ENGINEERING PACKAGE
TENDER SUBMISSION**

**BULK EARTHWORKS CUT/FILL
SECTIONS - SHEET 03**

JOB NUMBER	
171708-07	
DRAWING NUMBER	REVISION
C303.13	A
DRAWING SHEET SIZE - A1	

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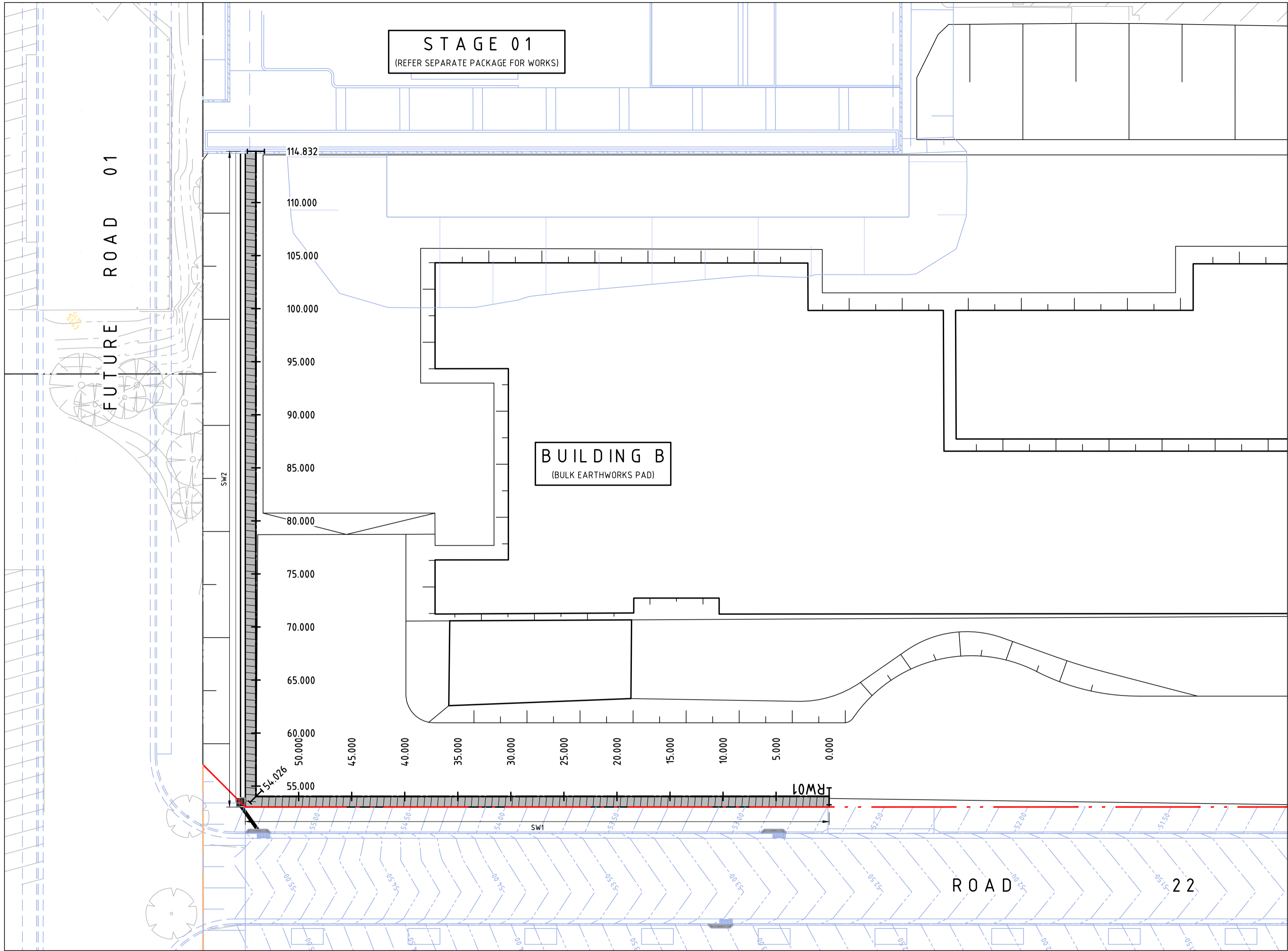


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SCALE 1:100 @ A1 0 1 2 3 4 5m

PROJECT M_PARK - BUILDING B 33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK	DRAWING TITLE CIVIL ENGINEERING PACKAGE TENDER SUBMISSION BULK EARTHWORKS CUT/FILL SECTIONS - SHEET 04	JOB NUMBER 171708-07	
		DRAWING NUMBER C303.14	REVISION A
		DRAWING SHEET SIZE = A1	

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER: S. FRYER



PLAN
SCALE 1:250

LEGEND

--- PROPOSED BOUNDARY LINE

--- EXISTING BOUNDARY LINE

--- CONTROL LINE

--- CH0.000 CHAINAGE

GENERAL NOTES:

1. PILE + CAPPING BEAM $f'c = 40MPa$

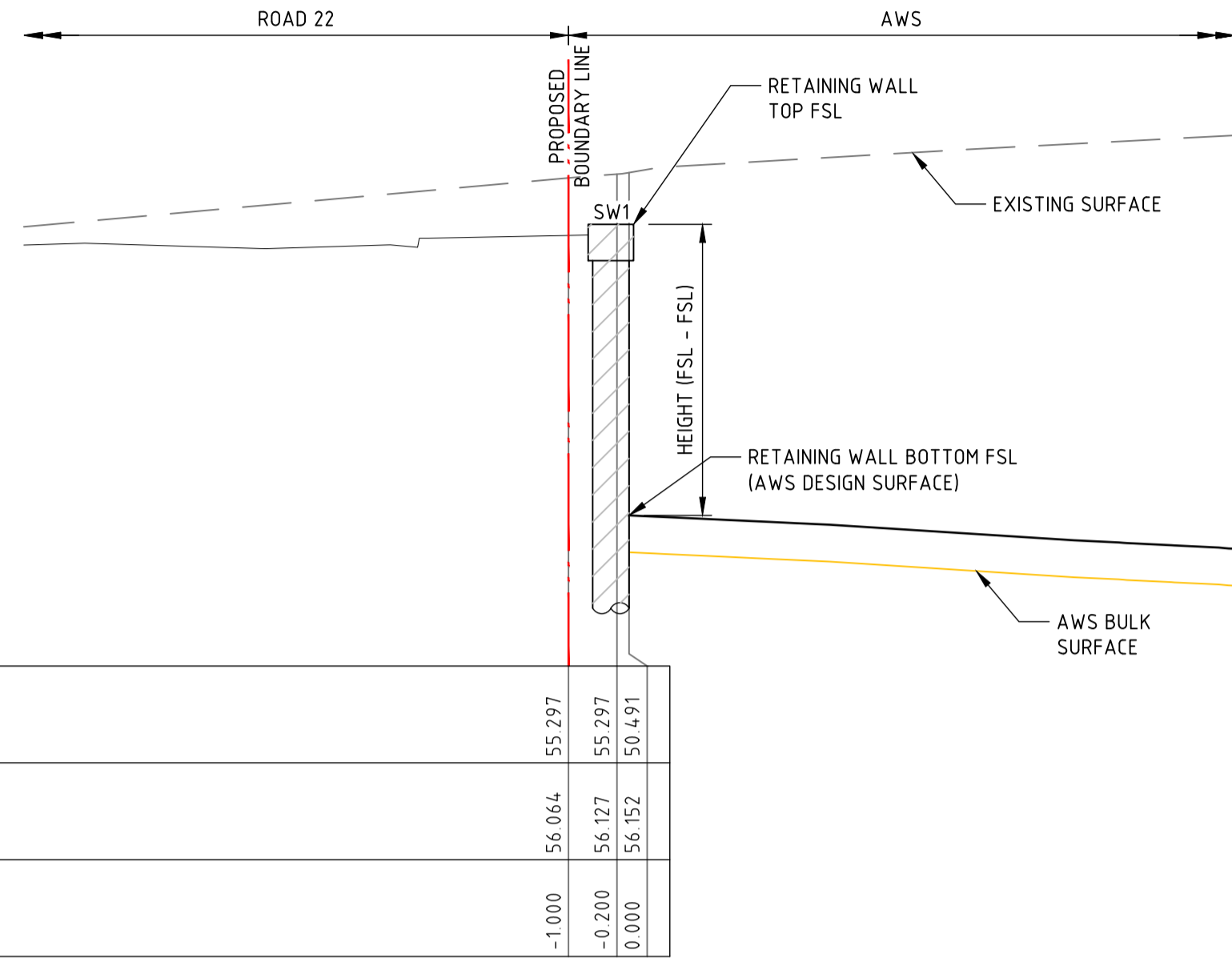
2. A GEOTECHNICAL REPORT HAS BEEN CARRIED OUT. REFER TO 99609.02 R.001 Rev0 BY DOUGLAS PARTNERS. THIS IS FOR INFORMATION ONLY. IT IS NOT A COMPLETE DESCRIPTION OF CONDITIONS AT OR BELOW GROUND LEVEL.

Centreline Data
X = 326454.752
Y = 6260587.669
Z = 50.491

DATUM RL 48.0

FINISHED SURFACE			55.297
EXISTING SURFACE		56.064	55.297
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		0.000	56.152

SCALE 1:100 HORIZ 1:100 VERT



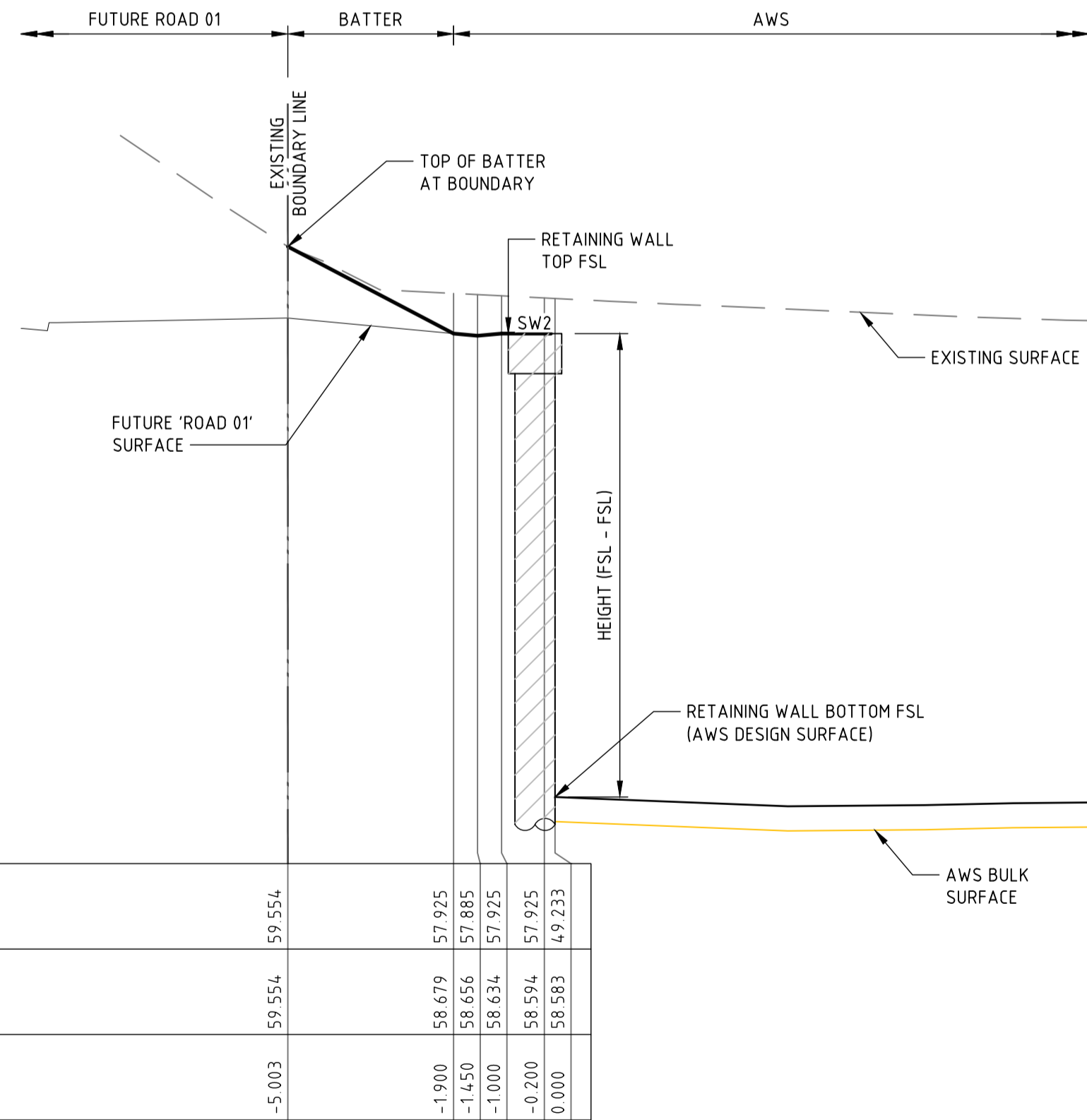
'SW1' TYPICAL SECTION (CH50)

Centreline Data
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Y = 6260620.513
Z = 49.233

DATUM RL 48.0

FINISHED SURFACE			59.554
EXISTING SURFACE		59.554	57.925
OFFSET		-1.900	58.679
		-1.450	58.656
		-1.000	57.885
		-0.200	58.634
		0.000	57.925

SCALE 1:100 HORIZ 1:100 VERT



'SW2' TYPICAL SECTION (CH110)

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SCALE VARIES

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Sydney

Level 11 345 George Street, Sydney NSW 2000

Ph (02) 9241 4188 Fax (02) 9241 4324

Email sydney@northrop.com.au ABN 81 094 433 100

PROJECT

M_PARK - BUILDING B

33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE

CIVIL ENGINEERING PACKAGE TENDER SUBMISSION

RETAINING WALL ALIGNMENT CONTROL PLAN

JOB NUMBER

171708-07

DRAWING NUMBER

C306.01

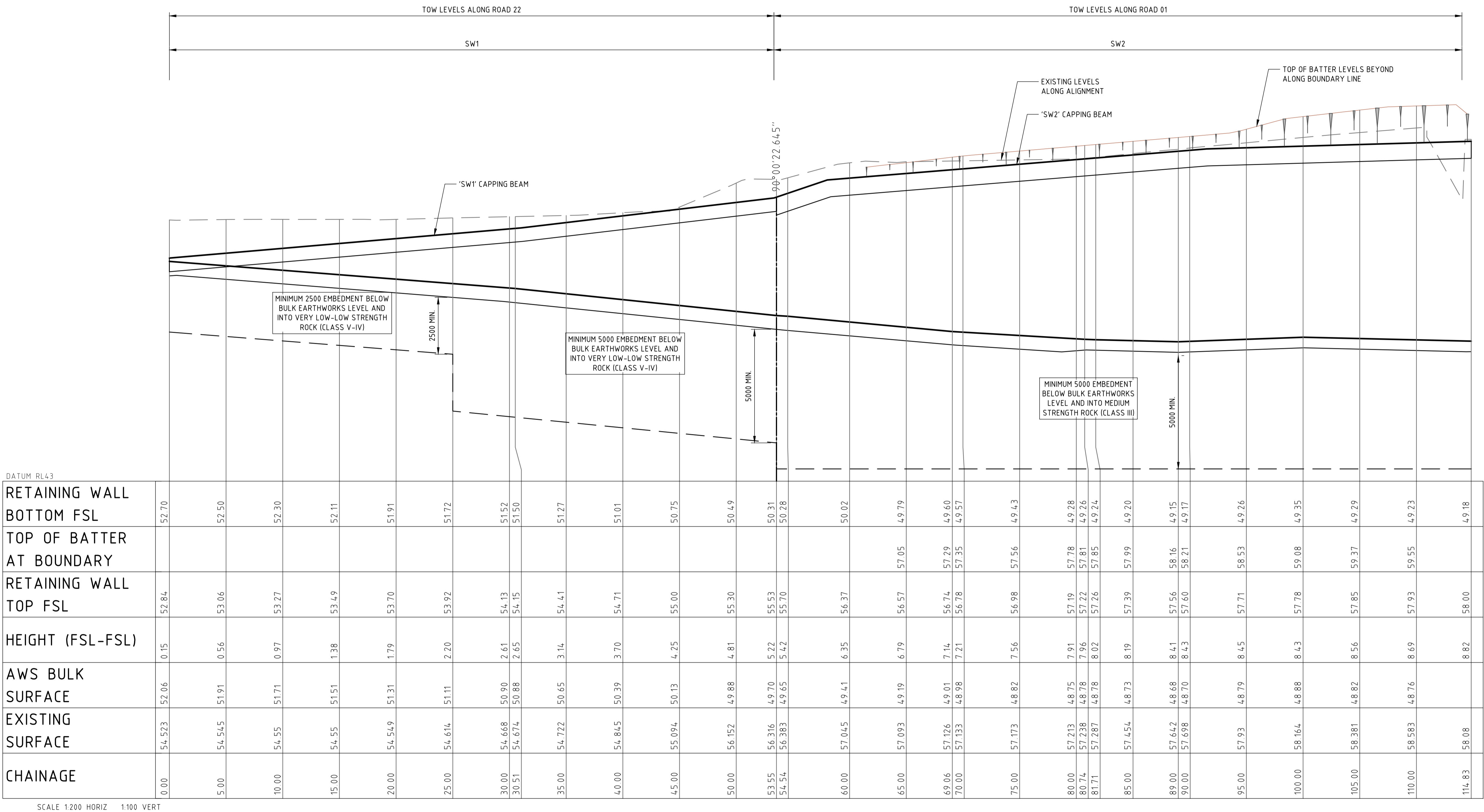
REVISION

A

DRAWING SHEET SIZE = A1

GENERAL NOTES:

1. REFER SPECIFICATIONS NOTES FOR GENERAL REQUIREMENTS.
2. CAD FILES TO BE SUPPLIED IN AUTOCAD FORMAT FOR SETOUT PURPOSES (UPON REQUEST).
3. REFER RETAINING WALL DETAILS.



ELEVATION OF RW01 RETAINING WALL

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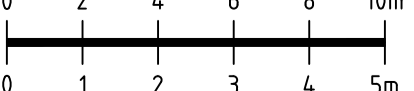
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SCALE 1:200 @ A1
SCALE 1:100 @ A1



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Ph (02) 9241 4188 Fax (02) 9241 4324
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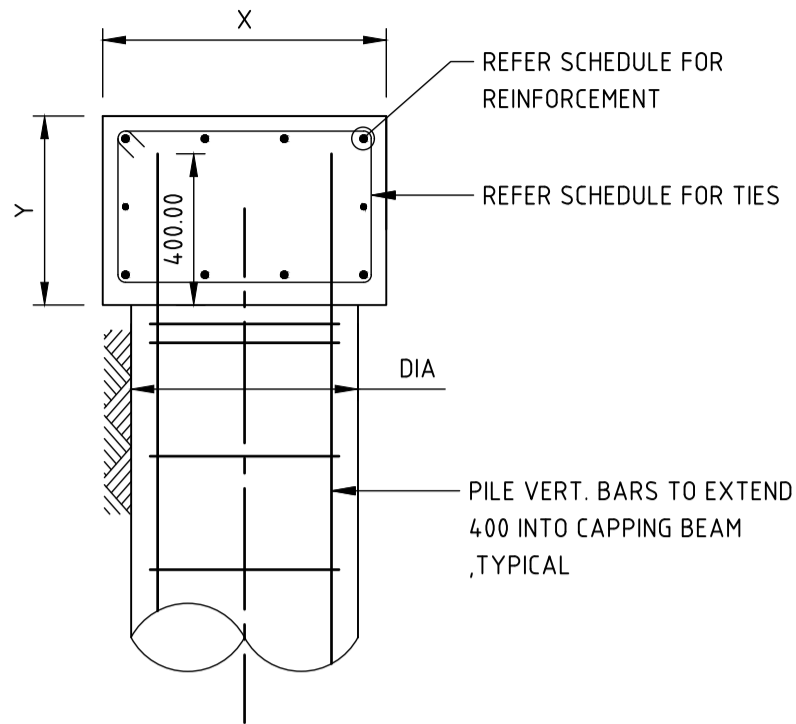
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M_PARK - BUILDING B
33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE
CIVIL ENGINEERING PACKAGE TENDER SUBMISSION
RETAINING WALL ELEVATIONS - SHEET 01

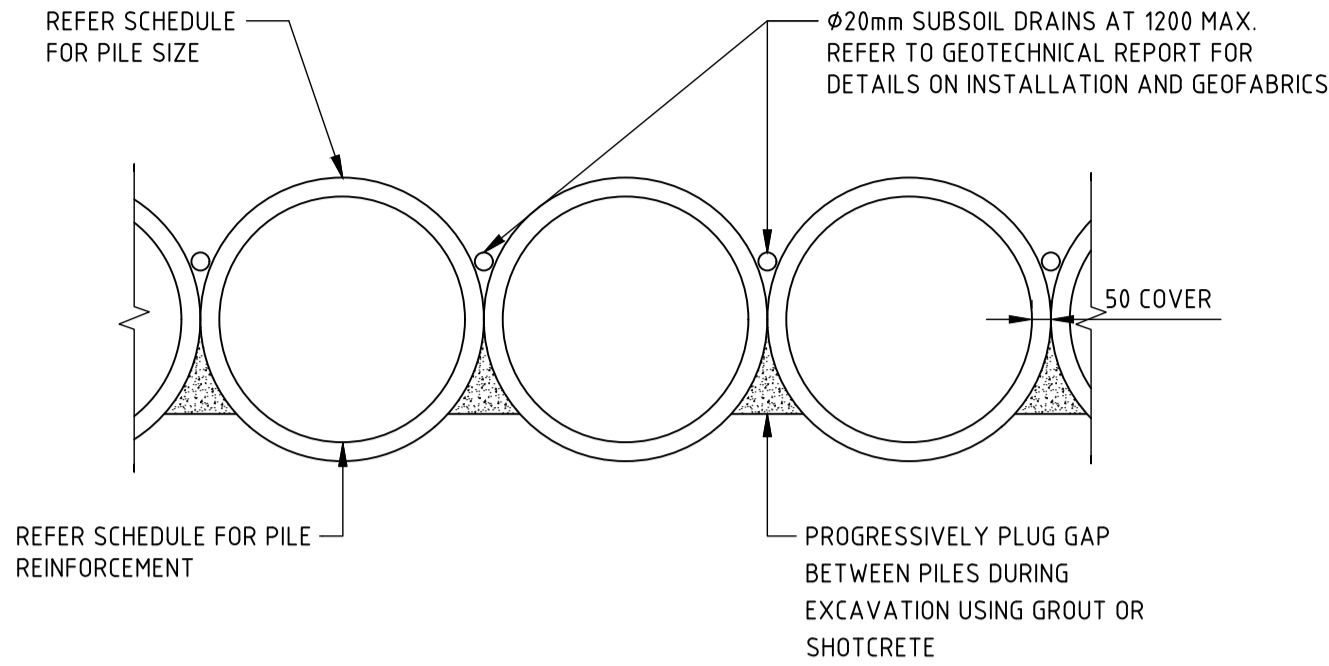
JOB NUMBER 171708-07	REVISION A
DRAWING NUMBER C306.21	DRAWING SHEET SIZE = A1

GENERAL NOTES:

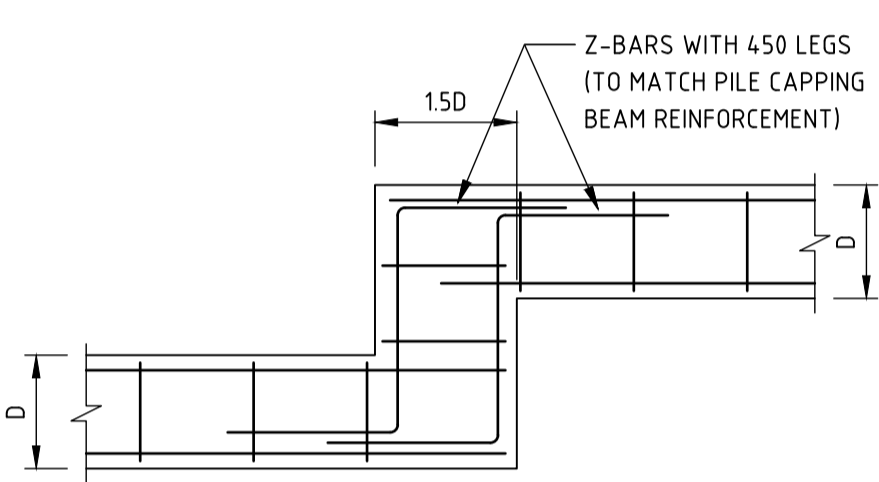
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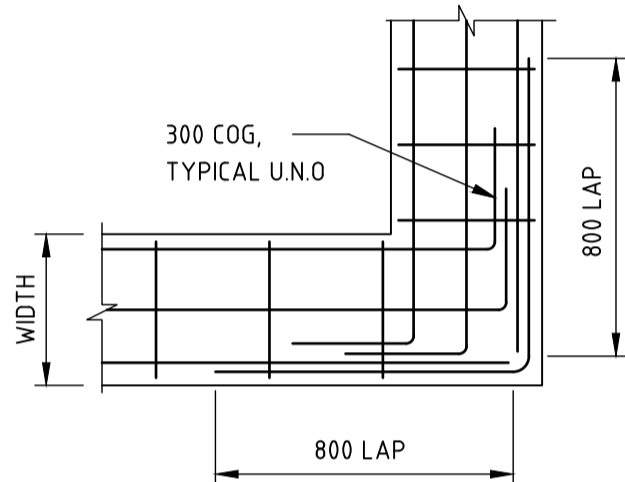
TYPICAL PILE CAPPING BEAM DETAIL



TYPICAL CONTIGUOUS PILE SHORING WALL PLAN

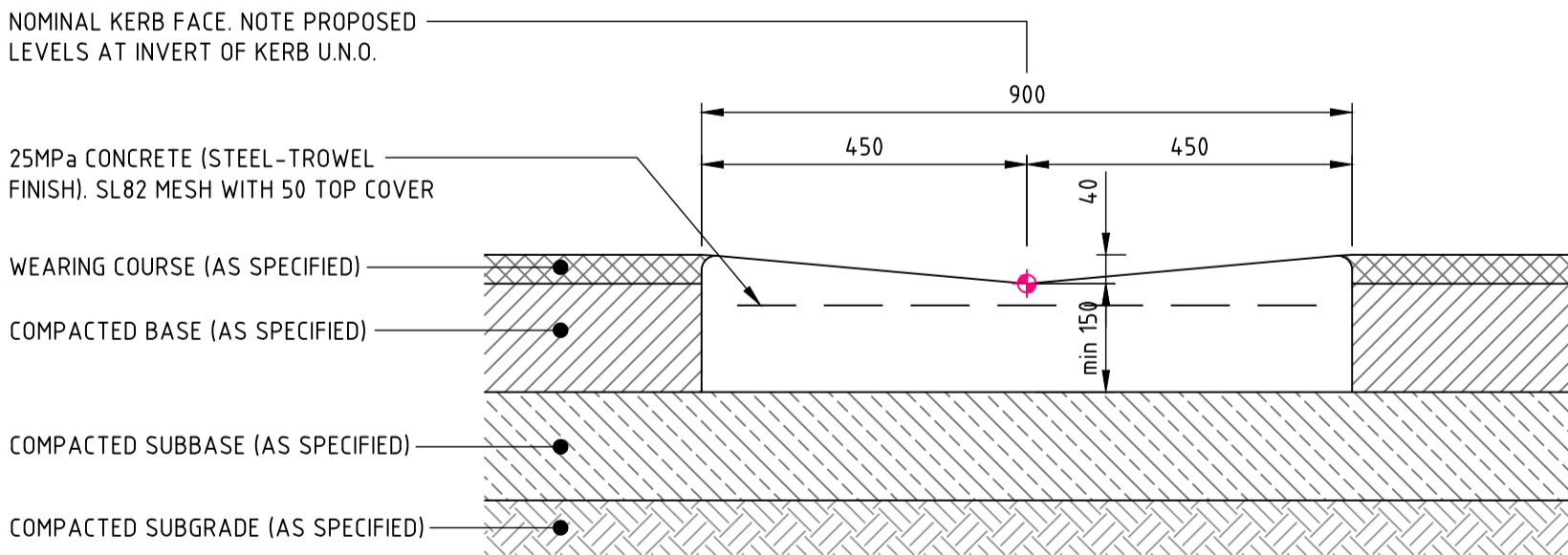


TYPICAL PILE CAPPING BEAM
STEP DETAIL



TYPICAL PILE CAPPING BEAM
CORNER DETAIL

	CAPPING BEAM			PILES		
	WIDTH (X)	DEPTH (Y)	REINFORCEMENT	DIA	REINFORCEMENT	SPACING
SW1	750	600	10N24 + N12-300 CLOSED TIES	600	8N28 + N12-300 CLOSED TIES	CONTIGUOUS
SW2	1000	750	14N24 + N12-300 CLOSED TIES	750	10N28 + N12-300 CLOSED TIES	CONTIGUOUS



DISH DRAIN - 900 WIDE 'DD'
EXPANSION JOINTS @ MAX 12m CTRS / TOOL JOINTS @ MAX 3m CTRS
ALL RADII TO BE 20mm U.N.O.

NOT FOR CONSTRUCTION

DRAWN: C. PASKE
DESIGNED: B. FIELD
JOB MANAGER: M. SANTIAGO
VERIFIER:

REVISION	DESCRIPTION	ISSUED	VER'D	APP'D	DATE
A	ISSUE FOR TENDER	JO	-	MS	16.11.20



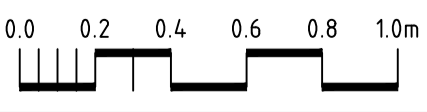
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SCALE 1:20@A1



PROJECT
M_PARK - BUILDING B
33 TALAVERA ROAD & 11-17 KHARTOUM ROAD MACQUARIE PARK

DRAWING TITLE
**CIVIL ENGINEERING PACKAGE
TENDER SUBMISSION
DETAILS - SHEET 01**

JOB NUMBER 171708-07	REVISION A
DRAWING NUMBER C312.01	
DRAWING SHEET SIZE = A1	