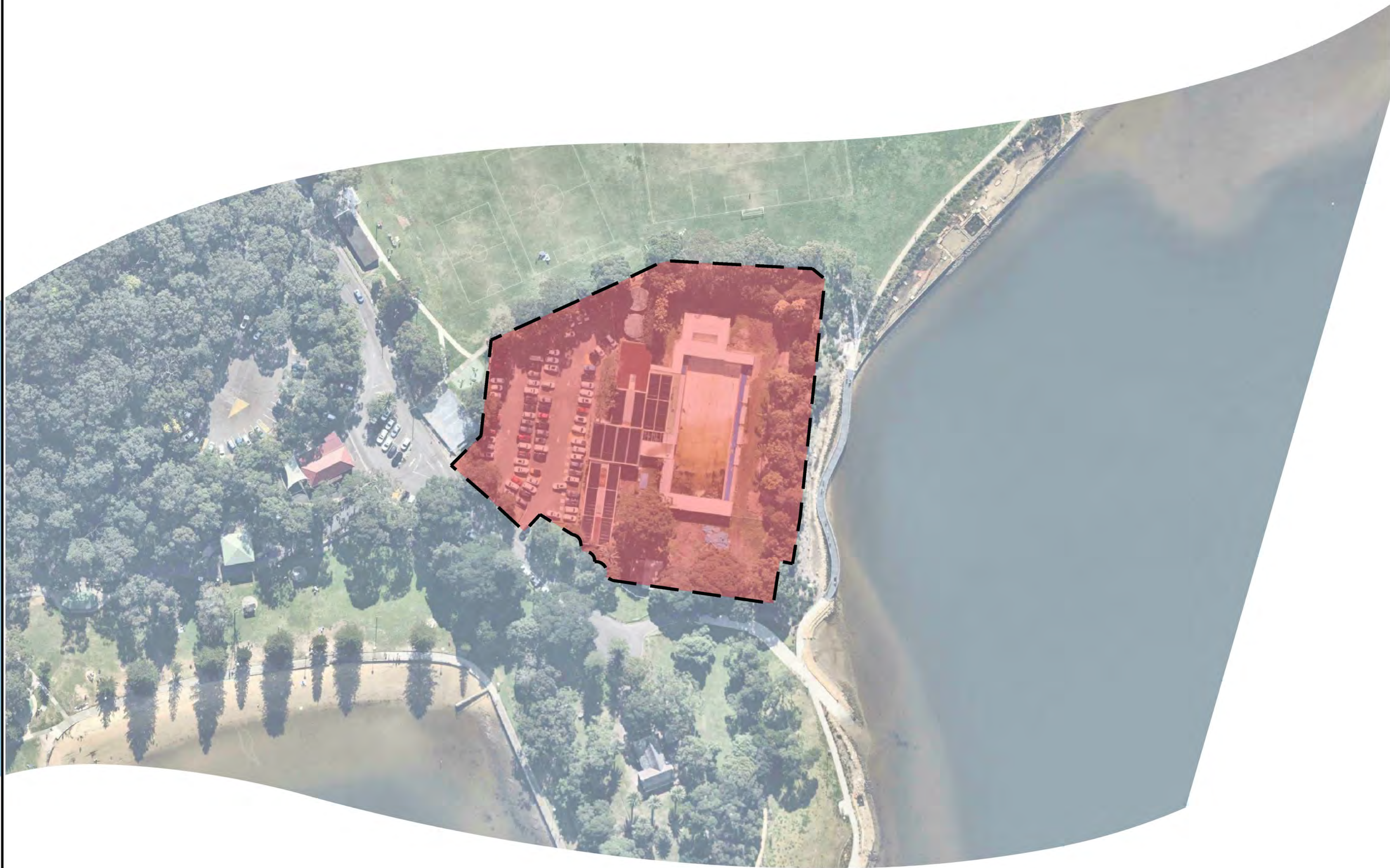




SJB ARCHITECTS

KOGARAH WAR MEMORIAL POOL CARWAR AVENUE, CARSS PARK DEVELOPMENT APPLICATION

DRAWING SCHEDULE

DRAWING NUMBER	DESCRIPTION
200060-DA-C01.01	COVER SHEET AND DRAWING SCHEDULE
200060-DA-C01.21	GENERAL ARRANGEMENT PLAN
200060-DA-C03.01	EROSION AND SEDIMENTATION CONTROL PLAN
200060-DA-C03.21	EROSION AND SEDIMENTATION CONTROL DETAILS
200060-DA-C04.01	CUT AND FILL PLAN
200060-DA-C04.10	REMEDICATION PLAN
200060-DA-C04.20	REMEDICATION PLAN SECTIONS
200060-DA-C05.01	SITEWORKS AND STORMWATER MANAGEMENT PLAN
200060-DA-C09.01	SITE SECTIONS

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	18/02/2021	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
5	24/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
4	11/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	CB	RT	AD	AD
3	09/09/2020	ISSUED FOR REVIEW	CB	RT	AD	AD
2	27/08/2020	ISSUED FOR REVIEW	CB	RT	AD	AD
1	26/08/2020	ISSUED FOR REVIEW	CB	RT	AD	AD

Client



Scale



SCALE 1:1000 @A1

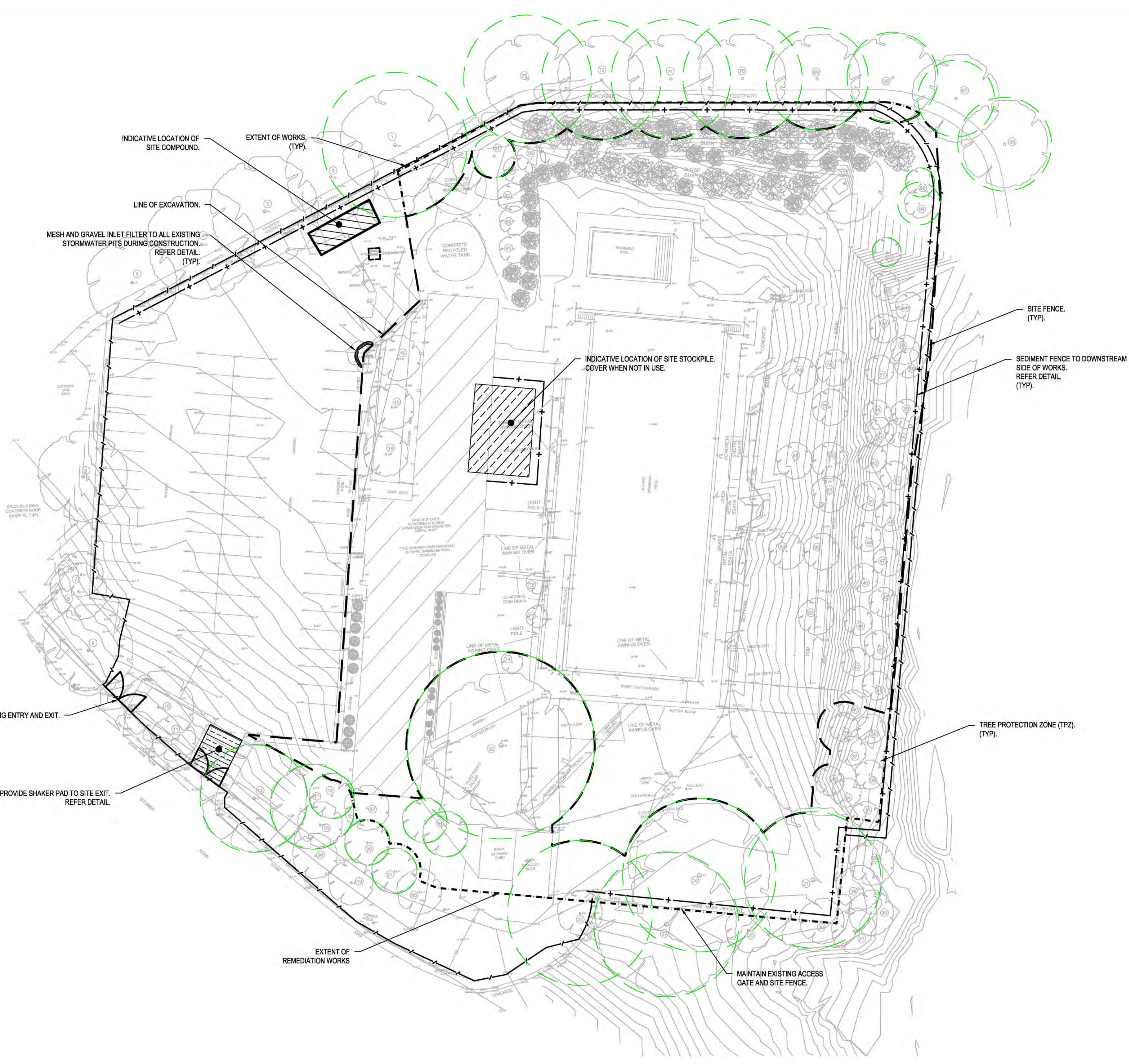
North





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Date 26/08/2020	Project Number/Drawing Number 200060-DA-C01.01
Size A1	Revision 6
Datum AHD	



LEGEND

SITE FENCE

SITE ENTRY/EXIT

TEMPORARY CONSTRUCTION EXIT
(WASH DOWN DETAIL)

SEDIMENT FENCE (SD 6-8)

MESH AND GRAVEL INLET FILTER (SD 6-11)

GEOTEXTILE INLET FILTER (SD 6-12)

TREE PROTECTION ZONE (TPZ)

- EROSION AND SEDIMENT CONTROL
- GENERAL INSTRUCTIONS
1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE CONTROL OF EROSION AND SEDIMENTATION TO THE SATISFACTION OF COUNCIL, NSW OFFICE OF WATER, OFFICE OF ENVIRONMENT AND HERITAGE. THE EROSION AND SEDIMENTATION CONTROLS SHOWN ON THE DRAWINGS SHALL ONLY BE USED AS A GUIDE BY THE CONTRACTOR, AND SHALL REPRESENT THE MINIMUM REQUIREMENT ONLY.

2. THE CONTRACTOR SHALL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED OR AS OTHERWISE DIRECTED BY THE SUPERINTENDENT.
ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
a. LOCAL AUTHORITY REQUIREMENTS
b. EPA REQUIREMENTS
c. LANDCOM MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.

3. MAINTAIN THE EROSION CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.

4. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES ARE ERECTED AROUND PITS.

5. CONTRACTOR IS TO ENSURE ALL EROSION & SEDIMENT CONTROL DEVICES ARE MAINTAINED IN GOOD WORKING ORDER AND OPERATE EFFECTIVELY. REPAIRS AND OR MAINTENANCE SHALL BE UNDERTAKEN AS REQUIRED, PARTICULARLY FOLLOWING STORM EVENTS.
- LAND DISTURBANCE
6. WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE WILL BE KEPT AS LOW AS POSSIBLE. TO THIS END, WORKS SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
a. INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
b. CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
c. INSTALL SEDIMENT BASIN AS SHOWN ON PLAN, INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
d. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE ENGINEERING PLANS. WHERE POSSIBLE, PHASE DEVELOPMENT SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF WORKABLE SIZE.
- EROSION CONTROL
7. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.

8. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
- SEDIMENT CONTROL
9. STOCKPILES WILL NOT BE LOCATED WITHIN 2 METRES OF HAZARD AREAS, INCLUDING LIKELY AREAS OF CONCENTRATED OR HIGH VELOCITY FLOWS SUCH AS WATERWAYS. WHERE THEY ARE BETWEEN 2 AND 5 METRES FROM SUCH AREAS, SPECIAL SEDIMENT CONTROL MEASURES SHOULD BE TAKEN TO MINIMISE POSSIBLE POLLUTION TO DOWNSLOPE WATERS, E.G. THROUGH INSTALLATION OF SEDIMENT FENCING.

10. ANY SAND USED IN THE CONCRETE CURING PROCESS (SPREAD OVER THE SURFACE) WILL BE REMOVED AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS FROM PLACEMENT.

11. WATER WILL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM UNLESS IT IS RELATIVELY SEDIMENT FREE, I.E. THE CATCHMENT AREA HAS BEEN PERMANENTLY LANDSCAPED AND/OR ANY LIKELY SEDIMENT HAS BEEN FILTERED THROUGH AN APPROVED STRUCTURE.

12. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.

13. ACCEPTABLE RECEPTORS WILL BE PROVIDED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHINGS, LIGHT-WEIGHT WASTE MATERIALS AND LITTER.

14. ANY EXISTING TREES WHICH FORM PART OF THE FINAL LANDSCAPING PLAN WILL BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THE DRIP LINE
b. ENSURING THAT NOTHING IS NAILED TO THEM
c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN THE DRIP LINE EXCEPT UNDER THE FOLLOWING CONDITIONS.
(I) ENCROACHMENT ONLY OCCURS ON ONE SIDE AND NO CLOSER TO THE TRUNK THAN EITHER 1.5 METRES OR HALF THE DISTANCE BETWEEN THE OUTER EDGE OF THE DRIP LINE AND THE TRUNK, WHICHEVER IS THE GREATER
(II) A DRAINAGE SYSTEM THAT ALLOWS AIR AND WATER TO CIRCULATE THROUGH THE ROOT ZONE (E.G. A GRAVEL BED) IS PLACED UNDER ALL FILL LAYERS OF MORE THAN 300 MILLIMETRES DEPTH
(III) CARE IS TAKEN NOT TO CUT ROOTS UNNECESSARILY NOR TO COMPACT THE SOIL AROUND THEM.

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
3	24/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
2	11/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	CB	RT	AD	AD
1	09/09/2020	ISSUED FOR REVIEW	CB	RT	AD	AD

Client

Scale

0

5

10

20

30m

SCALE 1:300 @A1

North

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Project

KOGARAH WAR MEMORIAL POOL
CARWAR AVENUE, CARSS PARK
DEVELOPMENT APPLICATION

Title

EROSION AND SEDIMENTATION
CONTROL PLAN

Scale

1:300

Date

09/09/2020

Size

A1

Datum

AHD

Status

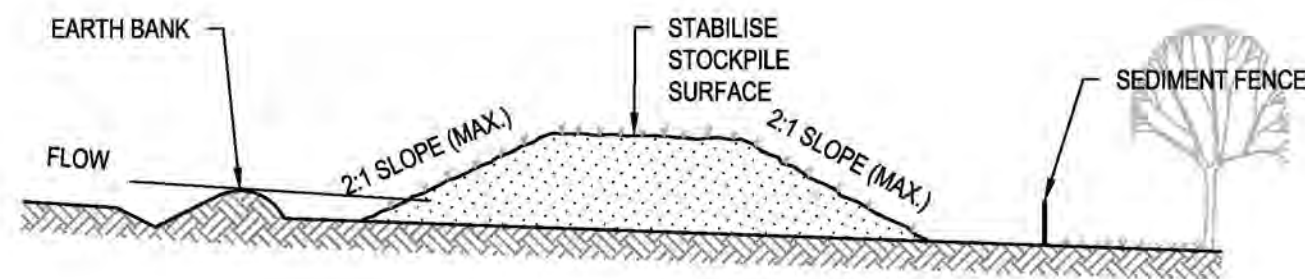
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Project Number/Drawing Number

200060-DA-C03.01

Revision

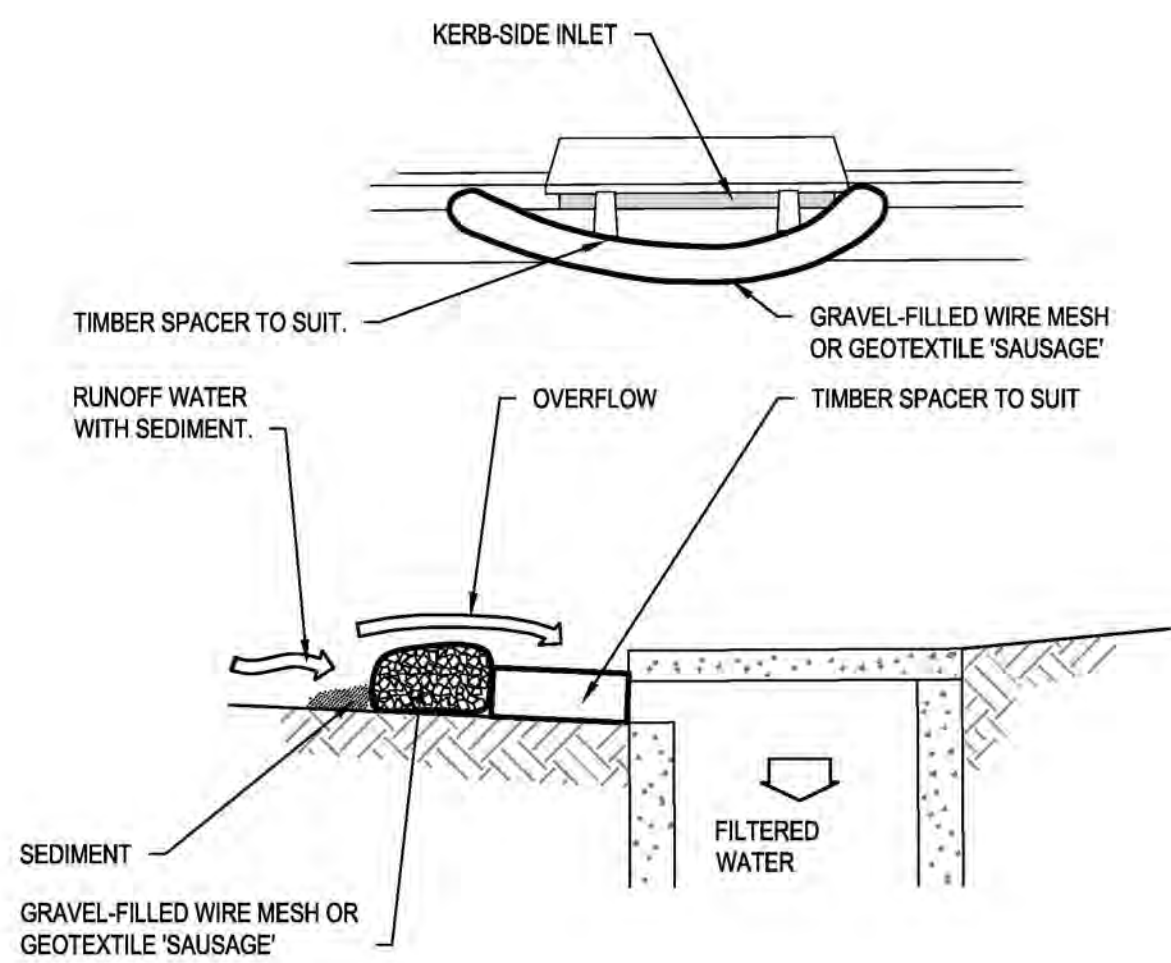
3



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)

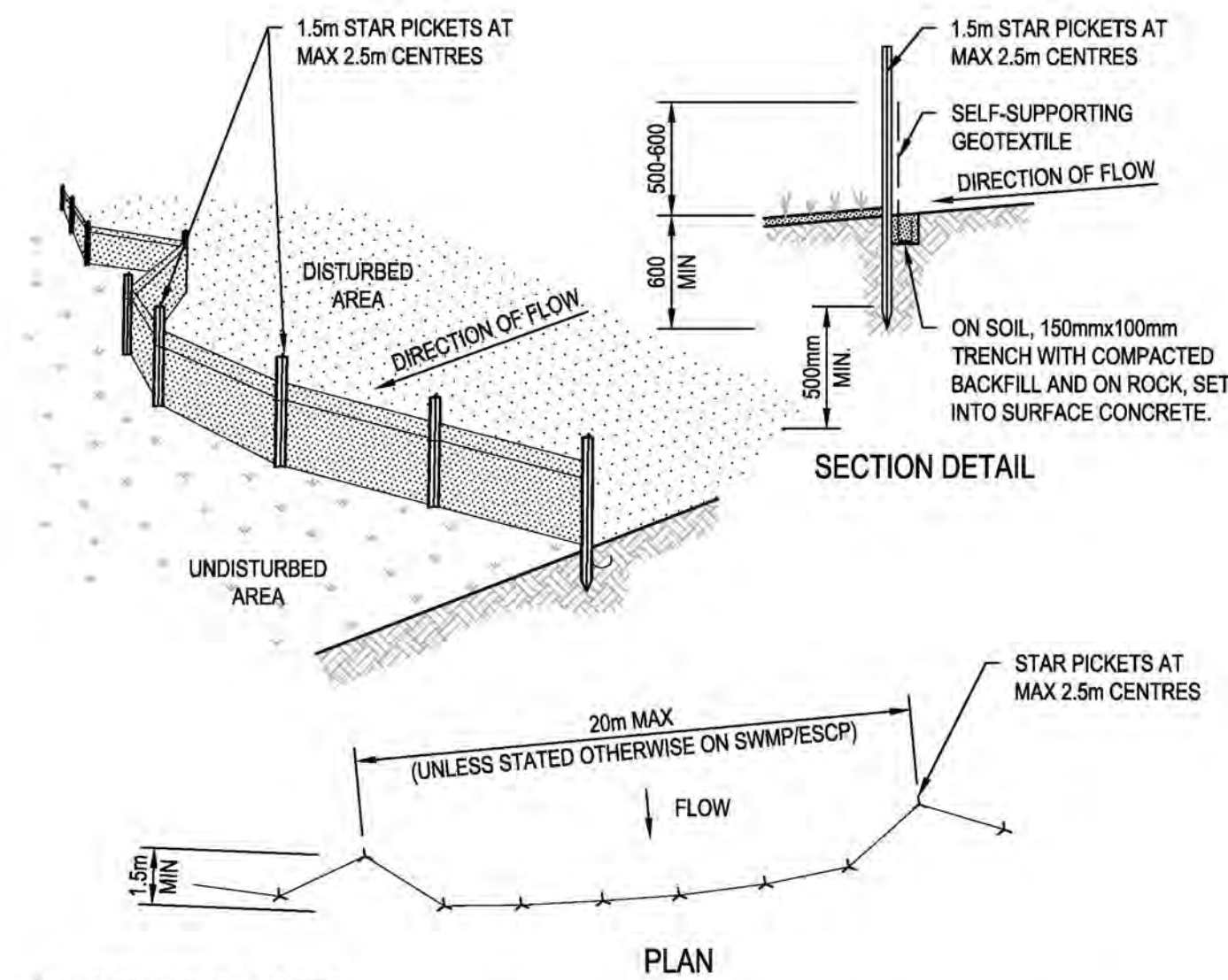


NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN APPROVED SWMP/ESCP.

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.

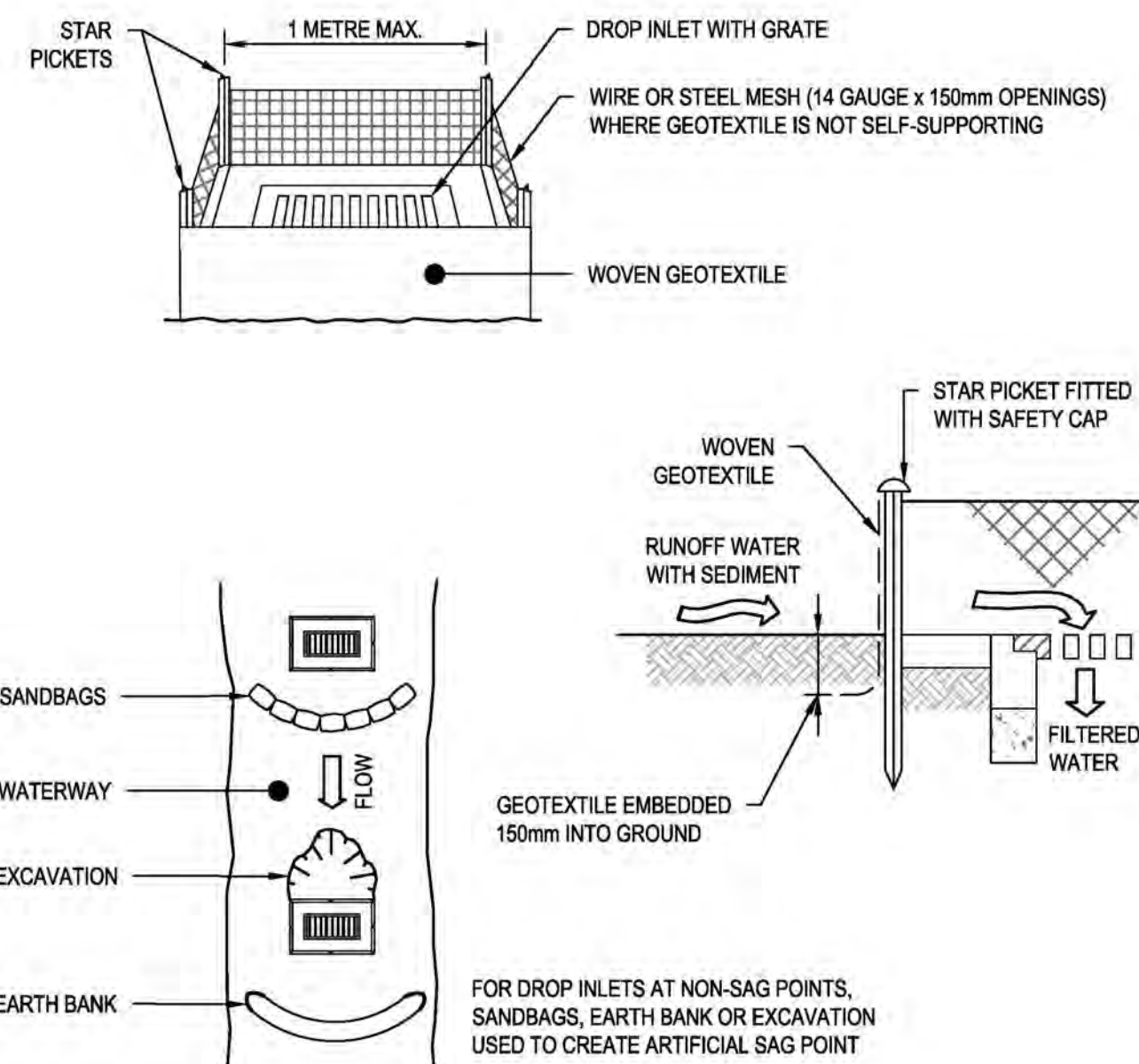
MESH AND GRAVEL INLET FILTER (SD 6-11)



CONSTRUCTION NOTES

1. 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 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 150mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

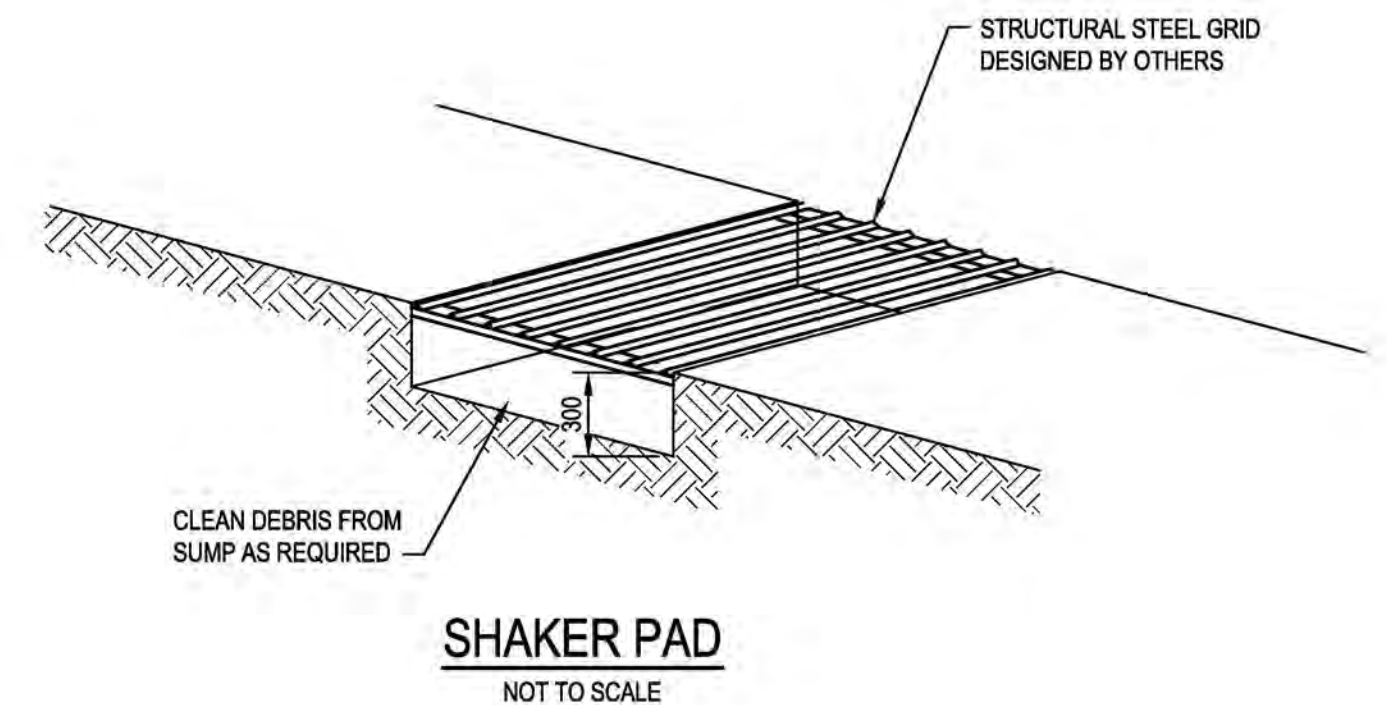
SEDIMENT FENCE (SD 6-8)



CONSTRUCTION NOTES

1. 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)



SHAKER PAD NOT TO SCALE

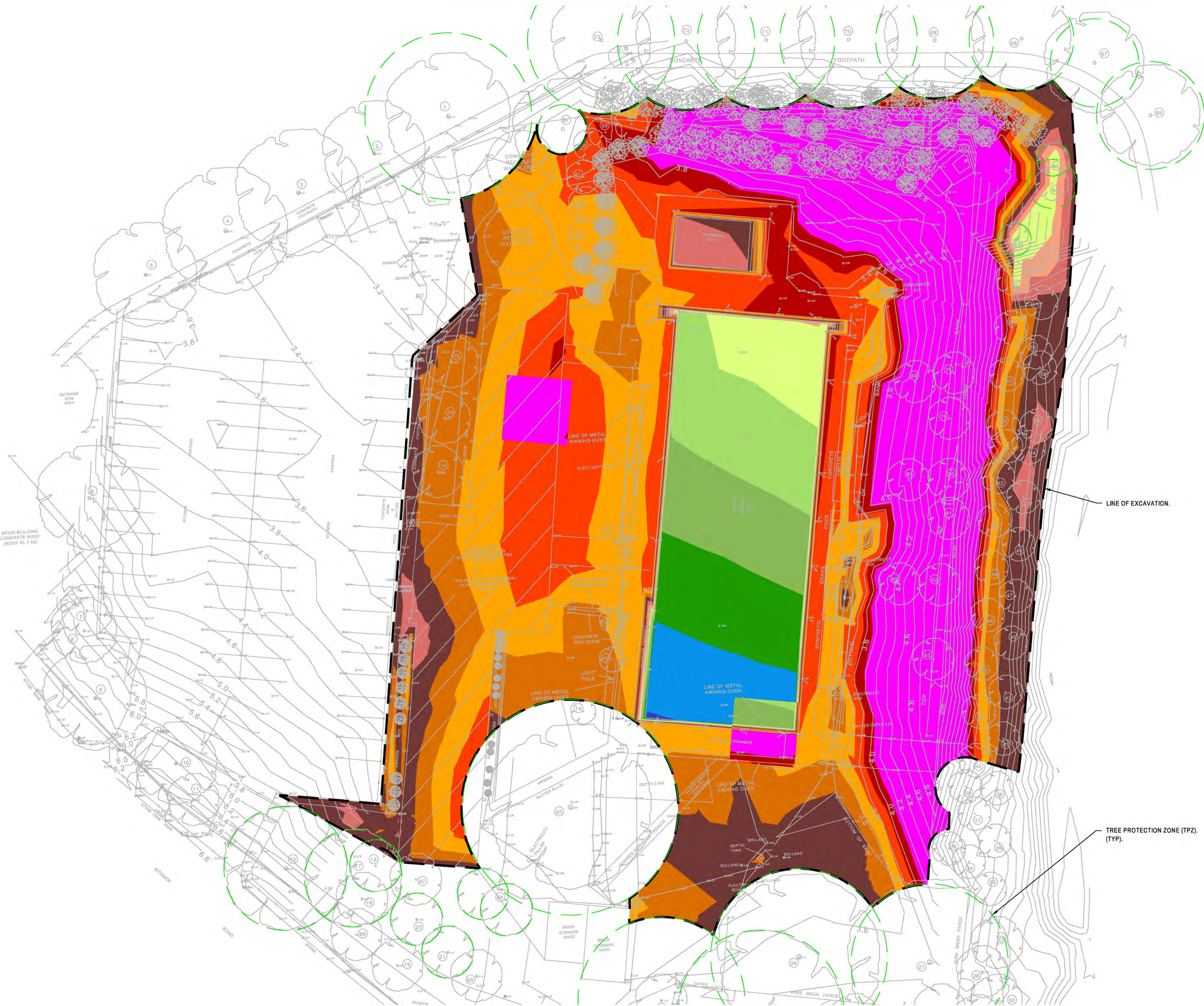
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1	09/09/2020	ISSUED FOR REVIEW		CB	RT	AD	AD



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Project KOGARAH WAR MEMORIAL POOL CARWAR AVENUE, CARSS PARK DEVELOPMENT APPLICATION	Scale N.T.S. Date 09/09/2020	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION
Title EROSION AND SEDIMENTATION CONTROL DETAILS	Size A1 Datum AHD	Project Number/Drawing Number 200060-DA-C03.21 Revision 1



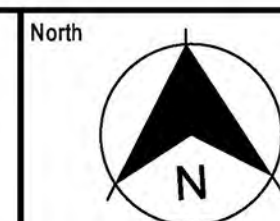
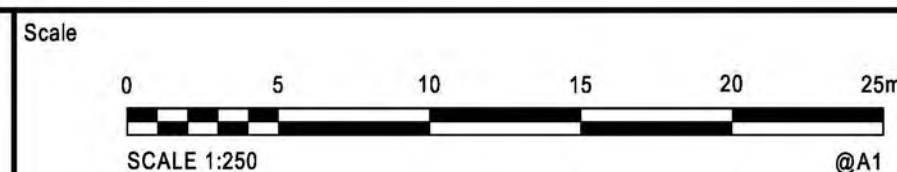
CUT AND FILL LEGEND

GREATER THAN 1.4m CUT	GREATER THAN 1.2m FILL
1.2m TO 1.4m CUT	
1.0m TO 1.2m CUT	
0.8m TO 1.0m CUT	
0.6m TO 0.8m CUT	
0.4m TO 0.6m CUT	
0.2m TO 0.4m CUT	
0.0m TO 0.2m CUT	
0.0m TO 0.2m FILL	
0.2m TO 0.4m FILL	
0.4m TO 0.6m FILL	
0.6m TO 0.8m FILL	
0.8m TO 1.0m FILL	
1.0m TO 1.2m FILL	

CUT AND FILL VOLUMES

- REFER SPECIFICATION NOTES FOR EARTHWORKS GENERAL REQUIREMENTS.
- ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH COUNCIL/RELEVANT AUTHORITY SPECIFICATIONS AND DETAILS.
- NO ALLOWANCE HAS BEEN MADE FOR BULKING FACTORS. NOTE ALL VOLUMES DEPICTED ARE SOLID VOLUMES ONLY AND MAY NOT REFLECT DETAILED EARTHWORKS.
- NO ALLOWANCE HAS BEEN MADE FOR DETAILED EARTHWORKS, ie SERVICE TRENCHING, DETAILED EXCAVATION AND THE LIKE.
- APPROXIMATE BULK EARTHWORK VALUES AS FOLLOWS:
 - TOPSOIL TO BE REMOVED FROM SITE = 867m³ (EXPORT)
 - CUT TO BE REMOVED FROM SITE = 6,693m³ (EXPORT)
 - TOP SOIL TO BE PLACED = 1,047m³ (IMPORT)
 - CLEAN BACKFILL TO POOL = 455m³ (IMPORT)
 - CLEAN FILL FOR CAPPING LAYER = 3,821m³ (IMPORT)
- THE VOLUME OF TOPSOIL TO BE PLACED WAS CALCULATED BY THE SUM OF GENERAL SURFACE AREAS AND THE SURFACE AREAS OF TREE PITS (8,977m²) MULTIPLIED BY THE DEPTH OF REQUIRED TOPSOIL (150mm).

REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
6	26/03/2021	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
5	24/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
4	11/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	CB	RT	AD	AD
3	09/09/2020	ISSUED FOR REVIEW	CB	RT	AD	AD
2	27/08/2020	ISSUED FOR REVIEW	CB	RT	AD	AD
1	26/08/2020	ISSUED FOR REVIEW	CB	RT	AD	AD



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Project
KOGARAH WAR MEMORIAL POOL
CARWAR AVENUE, CARSS PARK
DEVELOPMENT APPLICATION

Title
CUT AND FILL PLAN

Scale
1:250

Date
26/08/2020

Size
A1

Datum
AHD

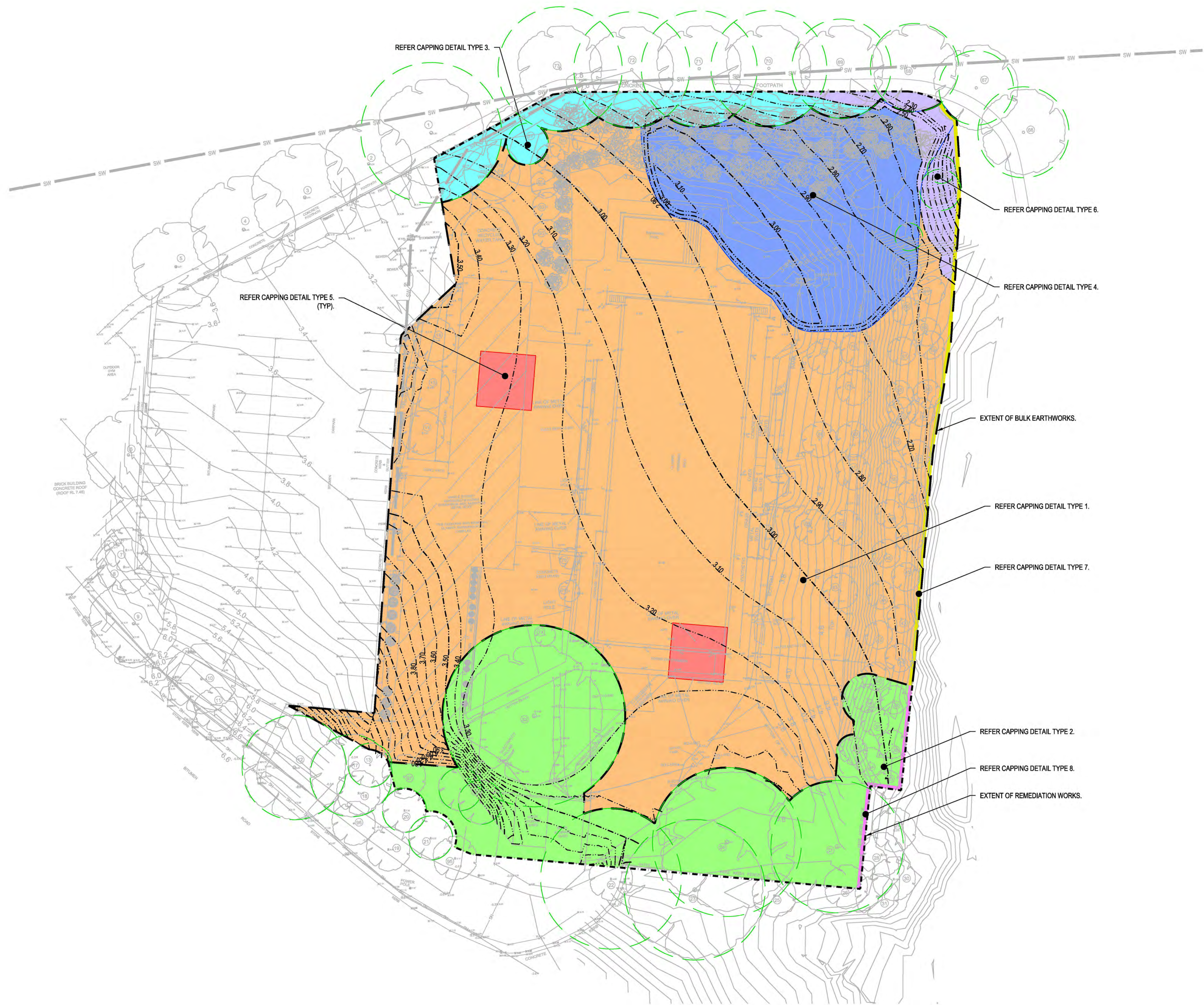
Status
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Project Number/Drawing Number
200060-DA-C04.01

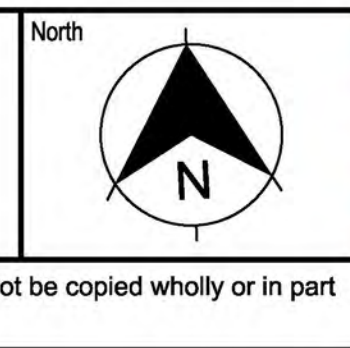
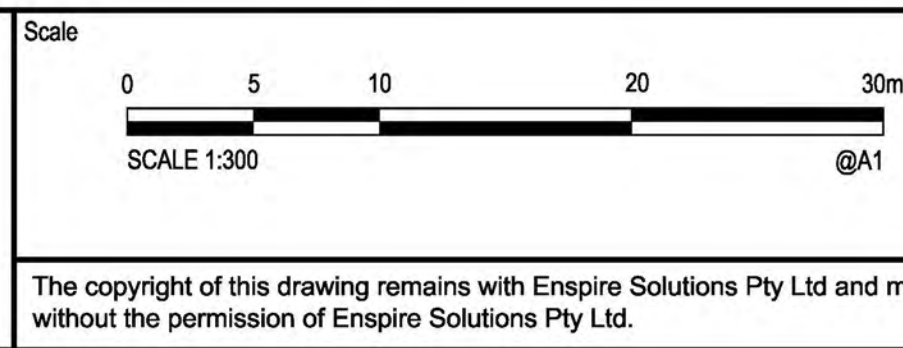
Revision
6

NOTES

1. REFER GEOTECHNICAL REPORT PREPARED BY DOUGLAS PARTNERS FOR REMEDIATION REQUIREMENTS.



REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
5	18/02/2021	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
4	24/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
3	14/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	CB	RT	AD	AD
2	11/09/2020	ISSUED FOR DEVELOPMENT APPLICATION	CB	RT	AD	AD
1	09/09/2020	ISSUED FOR REVIEW	CB	RT	AD	AD



Project	KOGARAH WAR MEMORIAL POOL CARWAR AVENUE, CARSS PARK DEVELOPMENT APPLICATION
Title	REMEDATION PLAN

Scale	AS SHOWN	Status	FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION
Date	09/09/2020	Project Number/Drawing Number	200060-DA-C04.10
Size	A1	Revision	5
Datum	AHD		



LEGEND

- 3.00 PROPOSED CONTOUR
- 3.00 EXISTING CONTOUR
- RW IRRIGATION TANK PIPE TRENCH
- ➔ OVERLAND FLOW DIRECTION
- SW EXISTING STORMWATER PIPE

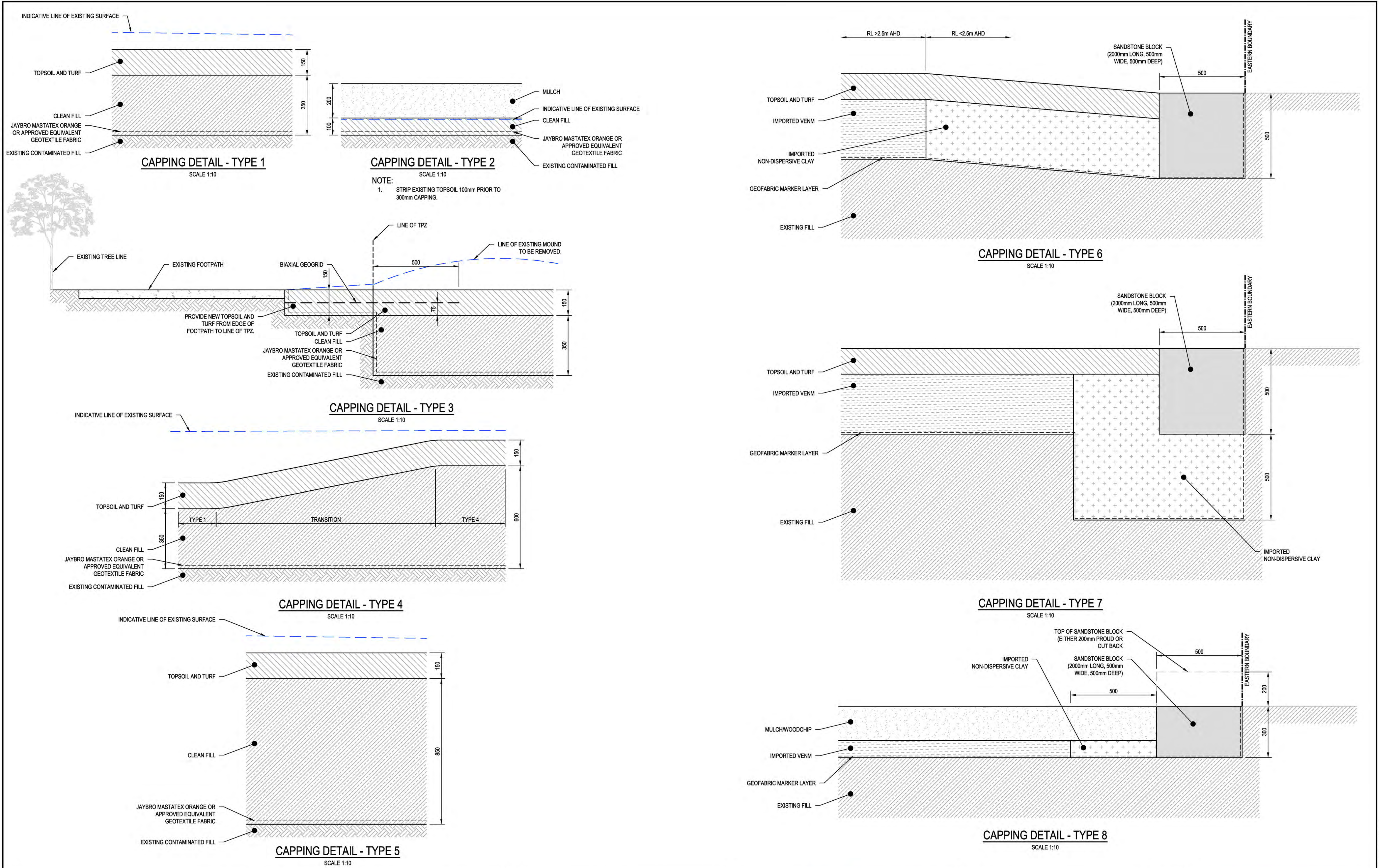
NOTES

- THE PROPOSED CONTOURS REPRESENT THE FINISHED SURFACE LEVEL. (TOP OF CAPPING MATERIAL).
- REFER ARBORICULTURAL DEVELOPMENT ASSESSMENT REPORT FOR TPZ.

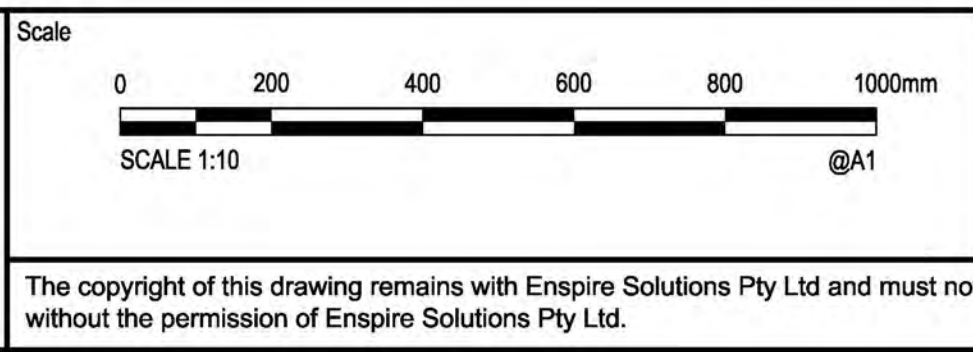
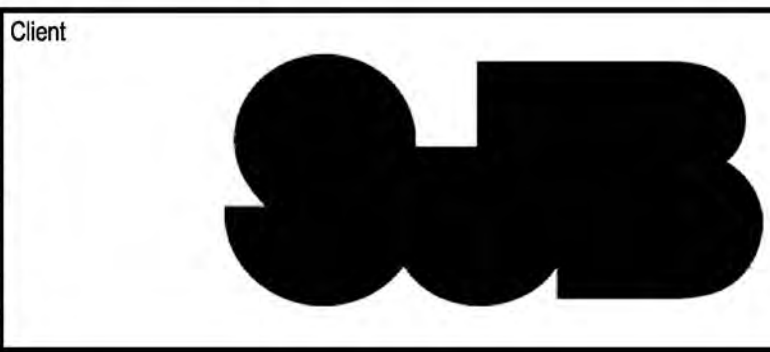
METHODOLOGY

- STRIP EXISTING VEGETATION AND REMOVE TOPSOIL.
- DEMOLISH EXISTING STRUCTURES INCLUDING BUILDINGS, POOL COPING AND PAVEMENTS.
- EXCAVATE TO 500mm BELOW PROPOSED SURFACE LEVELS AND REMOVE FROM SITE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT.
- EXCAVATE 1m DEEP TREE PITS.
- FILL POOL WITH CLEAN FILL MATERIAL TO 500mm BELOW PROPOSED SURFACE LEVEL.
- COVER SITE WITH GEOTEXTILE LAYER.
- FILL SITE WITH CLEAN MATERIAL (MIN 350mm FILL AND 150mm TOPSOIL).
- TURF SITE.

Client				Scale		North		Project		Scale		Status																																									
				0 5 10 15 20 25m SCALE 1:250 @A1				KOGARAH WAR MEMORIAL POOL CARWAR AVENUE, CARSS PARK DEVELOPMENT APPLICATION		1:250		FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION																																									
Revision				The copyright of this drawing remains with Enspire Solutions Pty Ltd and must not be copied wholly or in part without the permission of Enspire Solutions Pty Ltd.		enspire Enspire Solutions Pty Ltd 205/275 Alfred Street N, North Sydney NSW 2060 ABN: 71 624 801 690 Phone: 02 9922 6135		Title SITEWORKS AND STORMWATER MANAGEMENT PLAN		Size A1		Project Number/Drawing Number 200060-DA-C05.01																																									
REV. DATE DESCRIPTION DRN. DES. VERIF. APPD.										Datum AHD		Revision 6																																									
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REV.	DATE	DESCRIPTION	DRN.	DES.	VERIF.	APPD.
2	19/02/2021	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD
1	18/02/2021	ISSUED FOR DEVELOPMENT APPLICATION	JT	RT	AD	AD



Project
KOGARAH WAR MEMORIAL POOL
CARWAR AVENUE, CARSS PARK
DEVELOPMENT APPLICATION

Title
REMEDATION PLAN SECTIONS

Scale 1:10	Status FOR INFORMATION ONLY NOT TO BE USED FOR CONSTRUCTION
Date 18/02/2021	Project Number/Drawing Number 200060-DA-C04.20
Size A1	Revision 2
Datum AHD	

Demolition Plan

Kogarah War Memorial Pool
Carwar Ave, Carss Park

Key

Buildings to be
demolished

LEGEND	
	WATER MAIN
	TELSTRA PILLAR
	TELSTRA MARKER POST
	TELSTRA PIT
	TELEGRAPH POLE
	POWER POLE
	ELECTRICAL PILLAR
	POWER LIGHT POLE
	LIGHT POLE
	HYDRANT
	RECYCLED WATER
	WATER METER
	STOP VALVE
	WATER TAP
	GAS METER
	GAS DIRECTION MARKER
	GAS INSPECTION POINT
	SEWER MANHOLE
	SEWER VENT
	SEWER LAMPHOLE
	SEWER INSPECTION POINT
	SUBSOIL DRAIN
	STORMWATER PIT
	STORMWATER GRATE
	SURFACE INLET PIT
	LINTEL-KERB INLET PIT
	LINTEL-KERB INLET PIT WITH GRATE
	STORMWATER PIPE INCLUDING PIPE SIZE
	HEADWALL
	FIRE HYDRANT
	IRRIGATION PIT
	ELECTRICITY
	SEWER
	WATER
	COMMUNICATIONS
	GAS

MAP&SURVEY
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DRAWING TITLE	CLIENT	REDUCTION RATIO	SURVEYED/DRAWN	AMENDMENT
Site Feature & Level Survey	SJB Planning	1:250 (A1)	MS/MS	28.7.2020 - Preliminary Carpark Detail Only
SITE LOCATION		AHD	CHECKED GW	10.8.2020 - Rev Issued
Kogarah War Memorial Pool Carwar Ave, Carss Park		DATE 24.7.2020	REFERENCE 5104	



Moore Trees

Tree protection plan



Tree to be retained



Tree to be removed

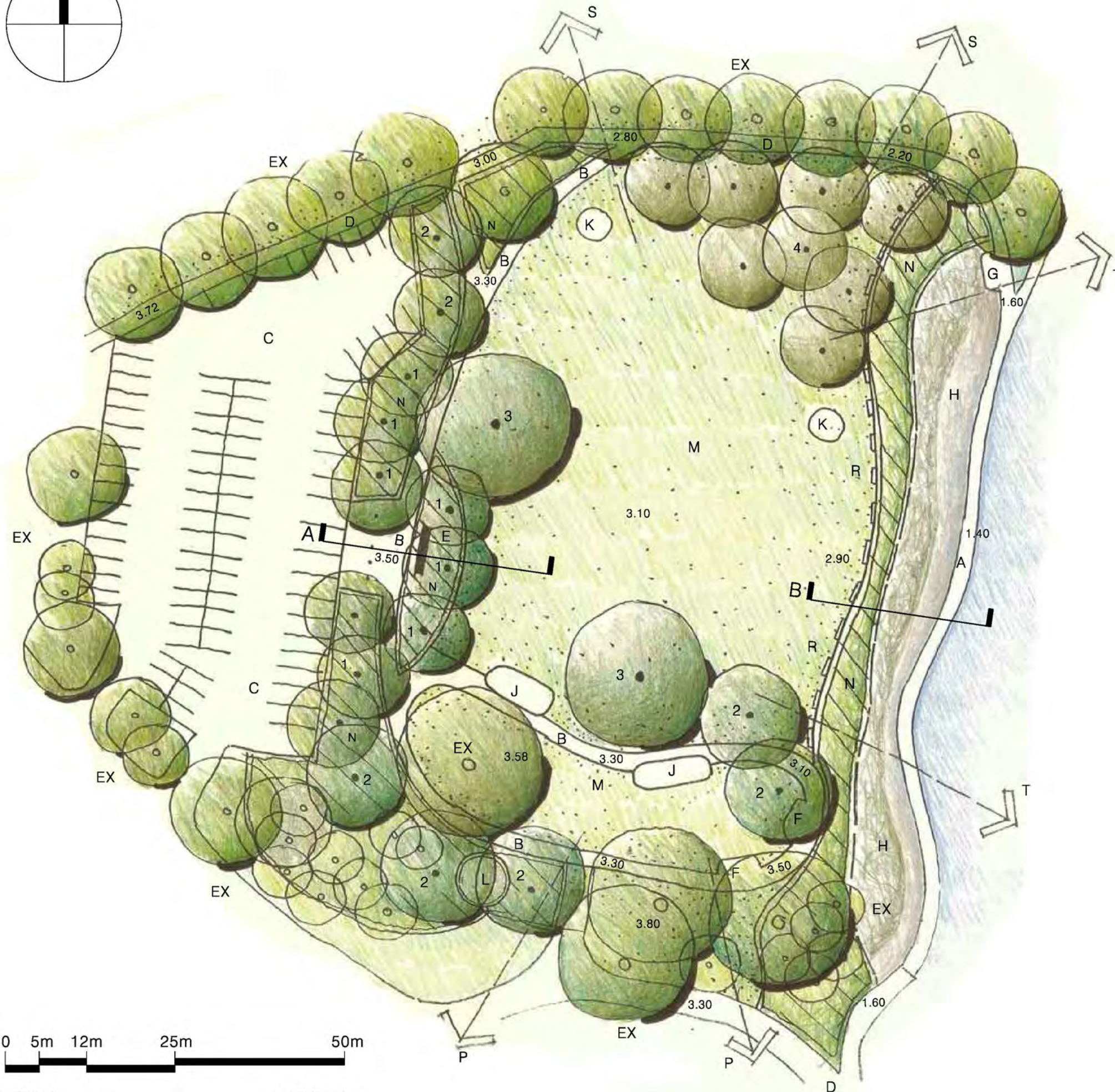
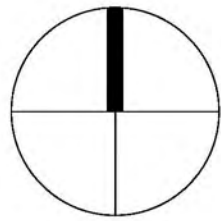


Exotic species



Fence. Implementation of tree protection zone (TPZ). All tree protection works should be carried out before the start of demolition or building works. It is recommended that chain mesh fencing with a minimum height of 1.8 metres be erected

Date: 22.02.2021
Drawn: P.Vezgoff
Site Address: Kogarah War Memorial Pool
Carrs Park NSW



SUGGESTED PLANT SPECIES LIST

Botanic Name	Common Name	Mature Height	Planting Size/density
Canopy Trees			
<i>Banksia integrifolia</i>	Coastal Banksia	6.0m	100Litre*
<i>Banksia serrata</i>	Old Man Banksia	5.0m	100Litre*
<i>Cupaniopsis anacardioides</i>	Tuckeroo	8.0m	200Litre*
<i>Ficus rubiginosa</i>	Port Jackson Fig	20.0m	400Litre*

Native Shrub Grasses and Groundcovers

<i>Carex appressa</i>	Tall Sedge	0.8m	Tube, 5/m2
<i>Dianella caerulea</i>	Blue Flax-Lily	0.5m	Tube, 5/m2
<i>Dichelachne crinita</i>	Longhair Plumegrass	1.0m	Tube, 5/m2
<i>Ficinia nodosa</i>	Knobby Club Rush	0.8m	Tube, 5/m2
<i>Hardenbergia violacea</i>	Purple Coral Pea	Ground Cover	Tube, 3/m2
<i>Hibbertia scandens</i>	Guinea Flower	Ground Cover	Tube, 3/m2
<i>Lomandra longifolia</i>	Spiny-Headed Mat-Rush	1.2m Tube	Tube, 3/m2
<i>Themeda australis</i>	Kangaroo Grass	0.5m Tube	Tube, 5/m2

*tree sizes subject to availability at time of procurement

NOTES:

Maintenance will be carried out in accordance with recommendations of Carss Park Plan of Management. All landscape areas to be installed and maintained in perpetuity by Georges River Council.

All Canopy trees selected for use will be endemic to this location and or historically /culturally significant.

Kogarah War Memorial Pool Remediation

September 2020

LEGEND

- | | |
|--|---|
| A. Existing Boardwalk | B. Proposed Path and Pavement Area (minimum 2.0m wide, Exposed Aggregate) |
| C. Existing Carparking Area | D. Existing Path |
| E. Future Memorial Wall (Engineers Detail) | F. Proposed Bench Seating |
| G. Existing Bench Seating | H. Existing Salt Marsh Planting |
| J. Proposed Shelter / Picnic Tables | K. Proposed Picnic Platform |
| L. Proposed Irrigation Tank | M. Grassed Passive Open Space Area (Approx. 9.60m Diameter, Engineers Detail) |
| N. Proposed Native Shrub Planting | P. Views to Carss Cottage |
| To supplement existing embankment | R. Sandstone Block Border to Grass |
| S. Views to Sports Fields | T. Views to Kogarah Bay |

1. Proposed Tree, Old Man Banksia (Mature Height Approx. 5.0m)
 2. Proposed Tree, Coastal Banksia (Mature Height Approx. 6.0m)
 3. Proposed Tree, Port Jackson Fig (Mature Height Approx. 20.0m)
 4. Proposed Tree, Tuckeroo (Mature Height Approx. 8.0m)
- EX. Existing Tree (Refer Arborist Report. Moore Trees)



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Landscape Concept 1/2

Kogarah War Memorial Pool Remediation
78 Carwar Avenue Carss Park

Scale As Shown Dwg: L01/2- K25112 27 Aug 2020

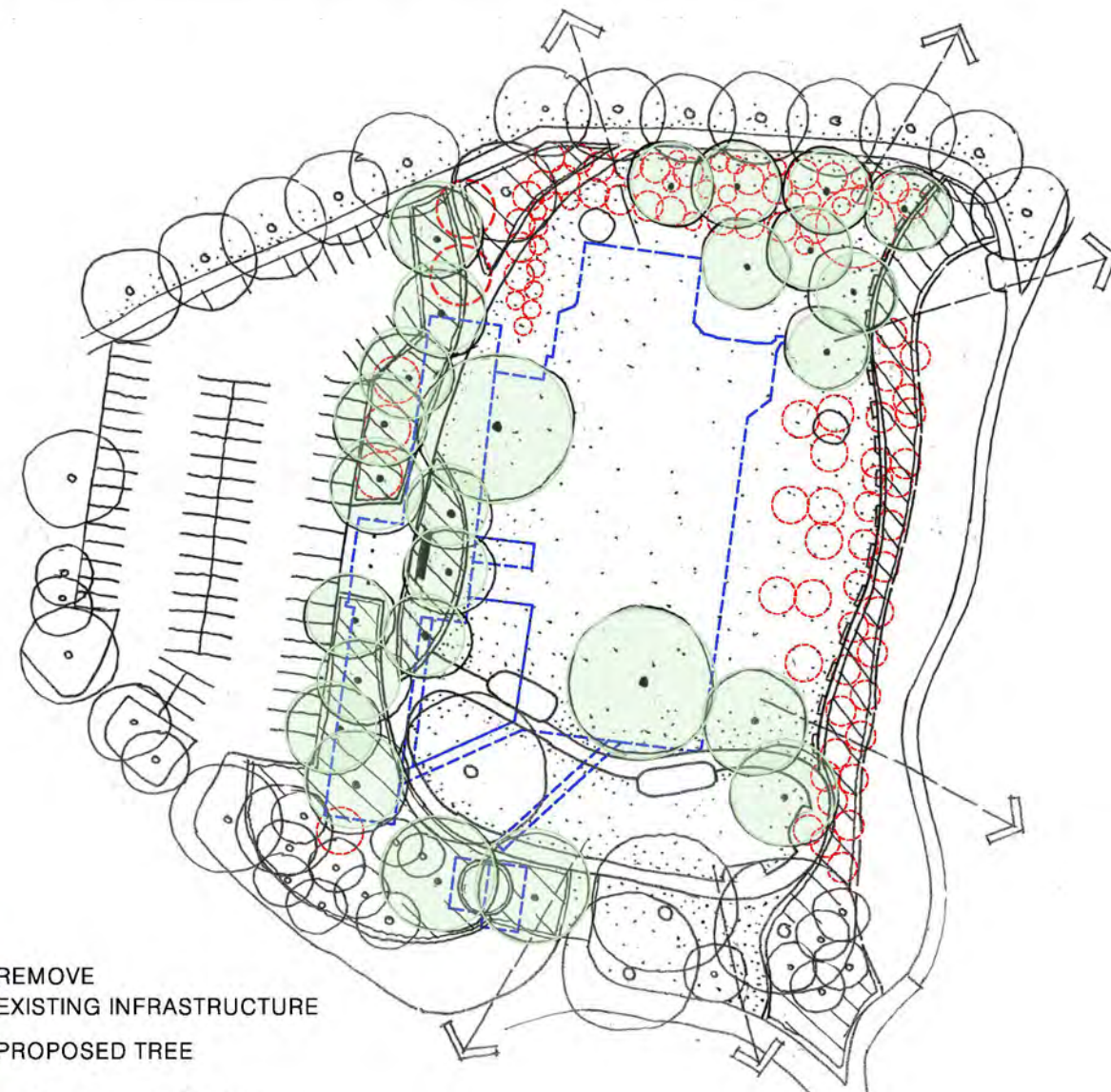
ABN 15 086 982 158 Copyright 2020 M.SIU

CAR PARK | PARK ENTRY | MEMORIAL WALL / PASSIVE RECREATION AREA



A CARPARK ENTRY/ MEMORIAL WALL - WEST

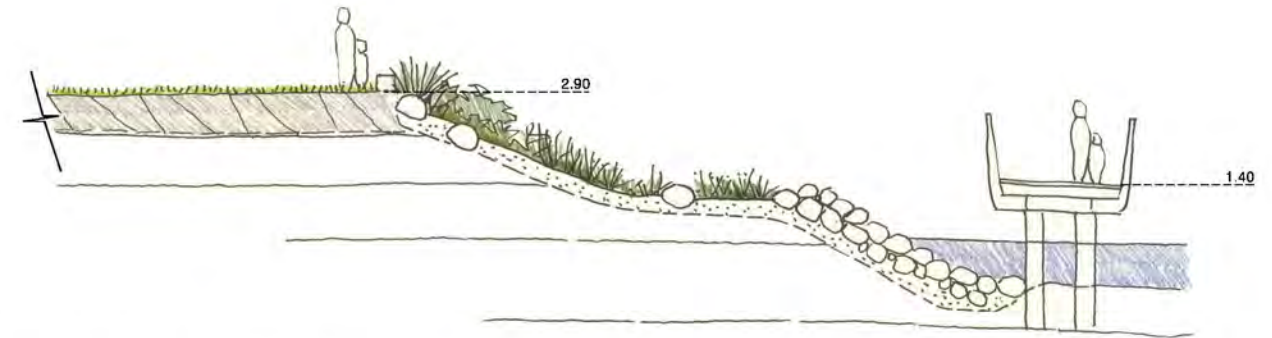
NTS



C PROPOSED AND EXISTING TREES

NTS

PASSIVE RECREATION AREA | EXISTING AND NEW RIPARIAN VEGETATION EMBANKMENT | EXISTING SALT MARSH | SANDSTONE FORESHORE | BOARDWALK

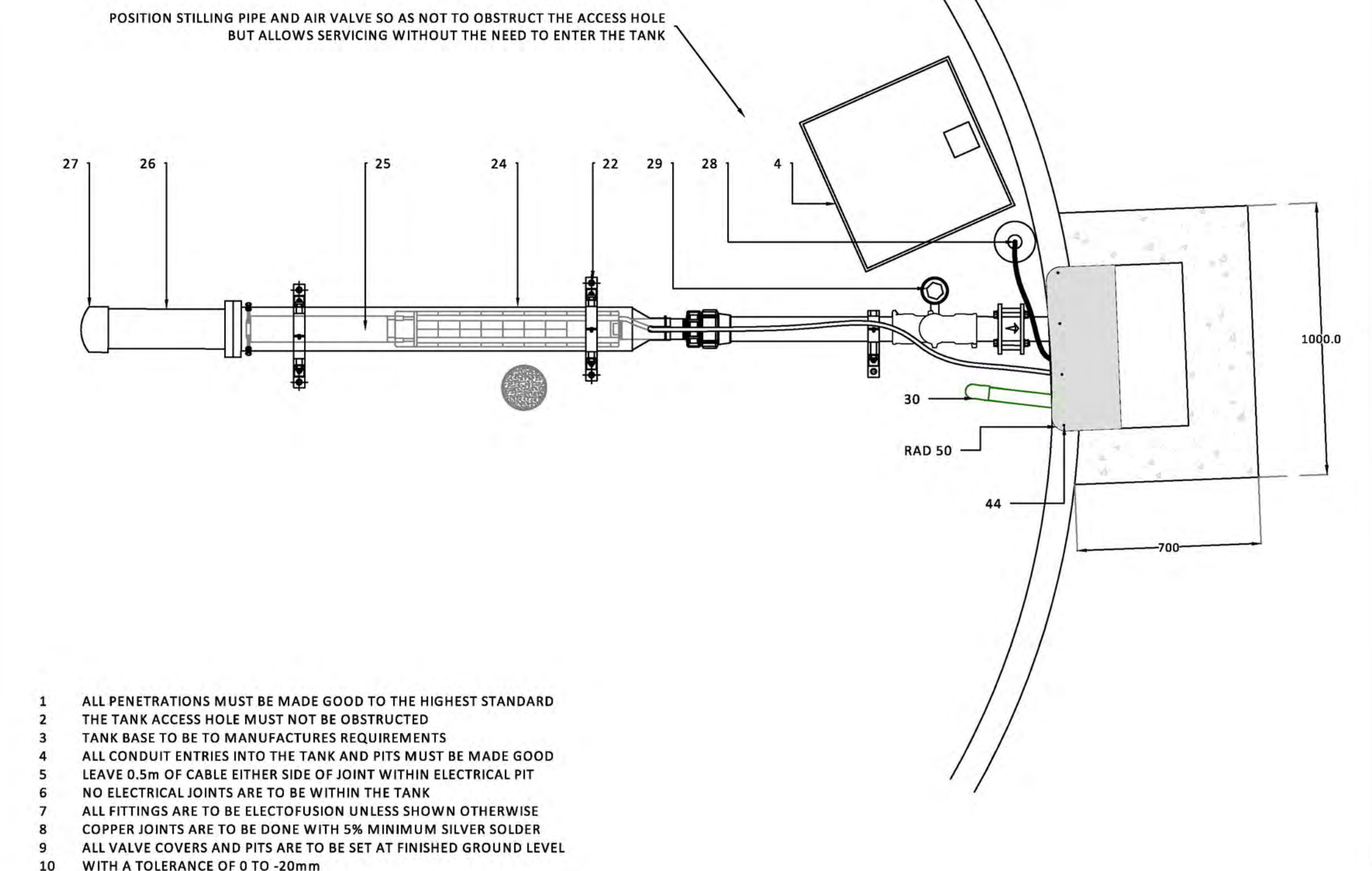
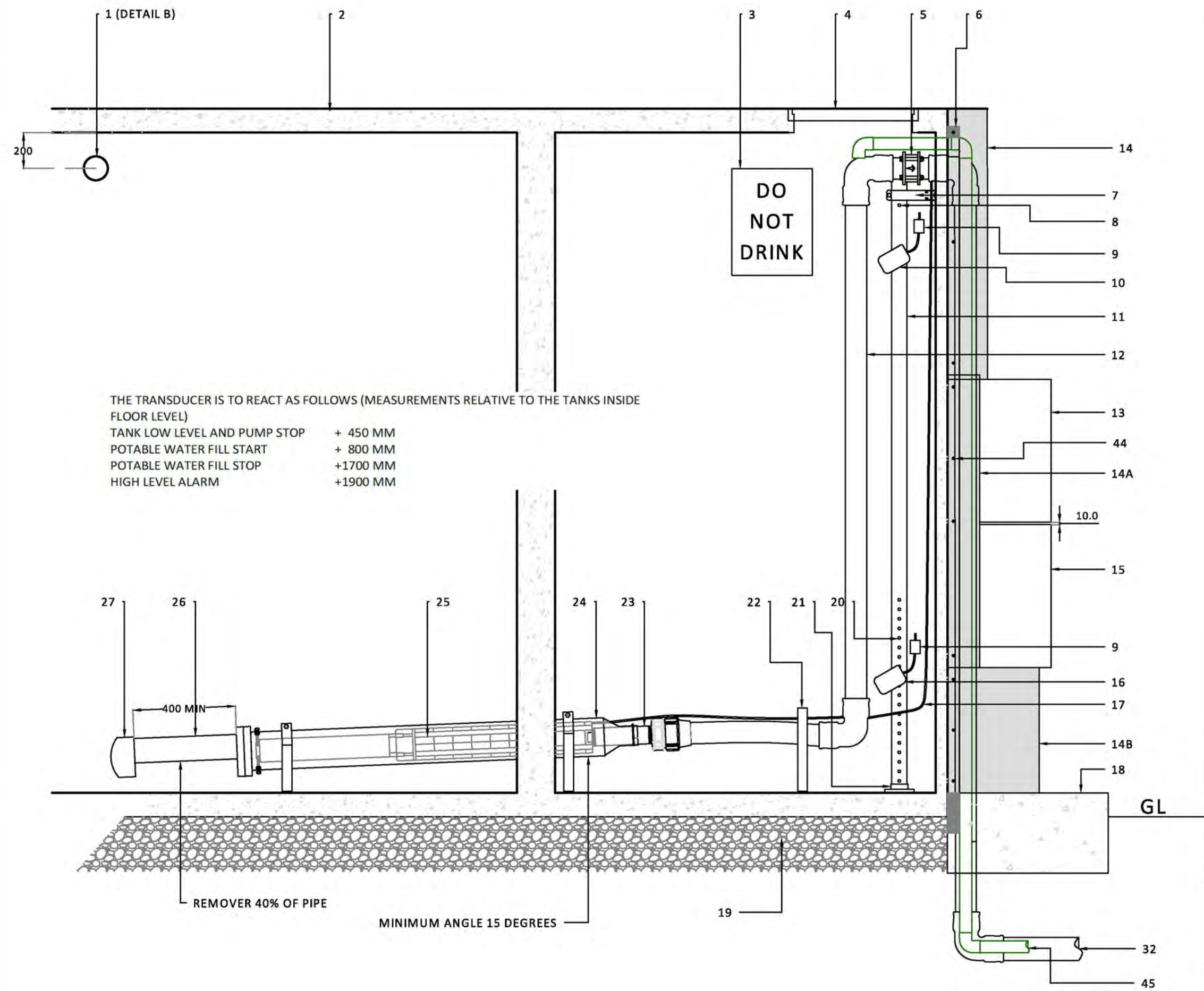


B WATERS EDGE/ BOARDWALK - EAST

NTS



LANDSCAPE ELEMENTS AND PLANTING
(Details as per Carss Bush Park Landscape Masterplan)

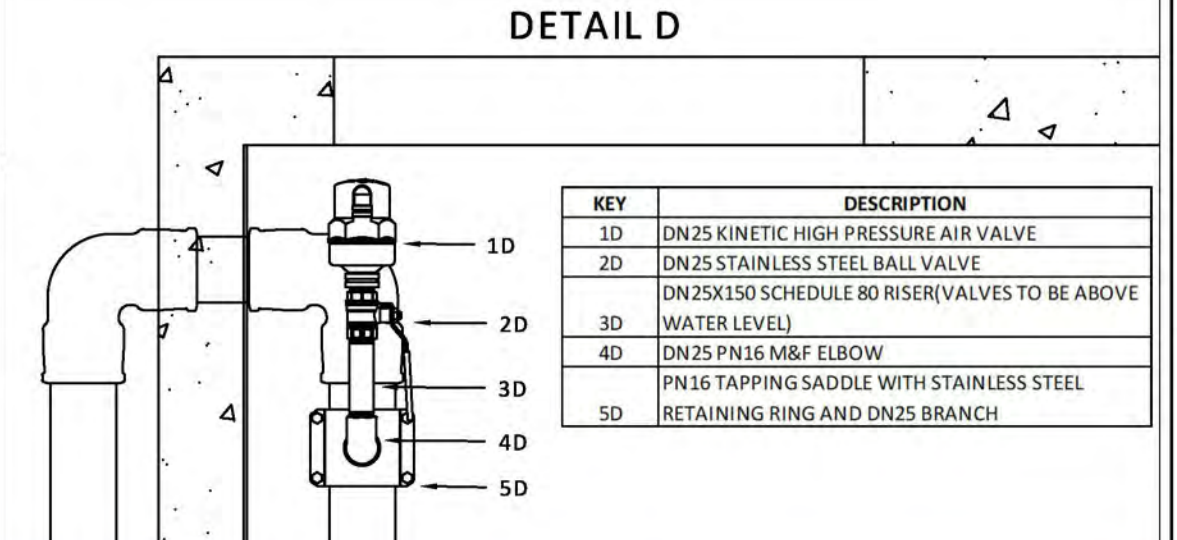
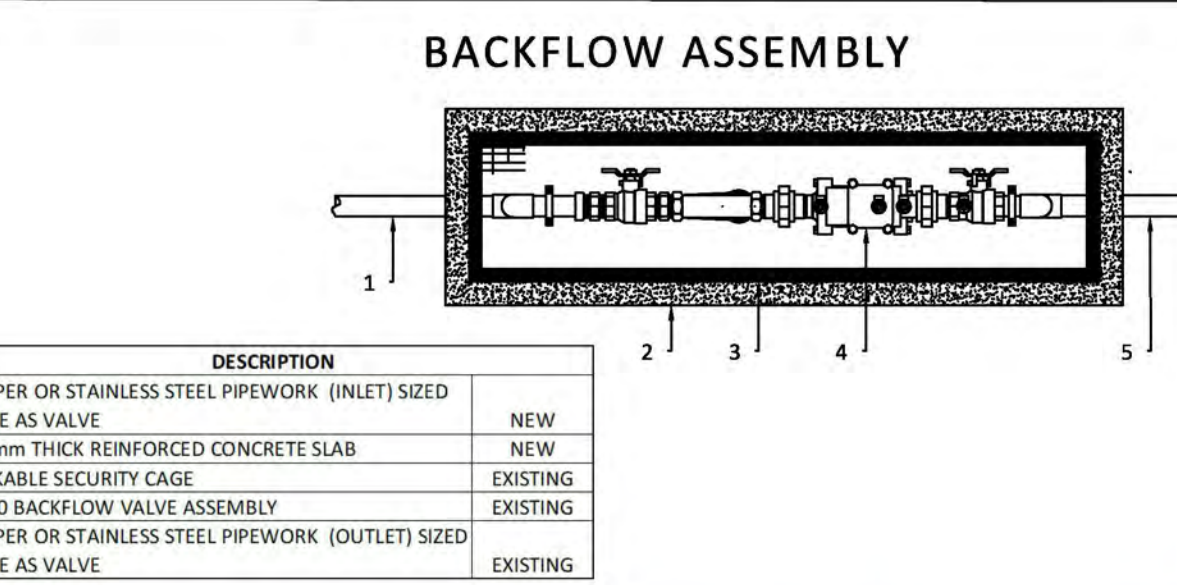
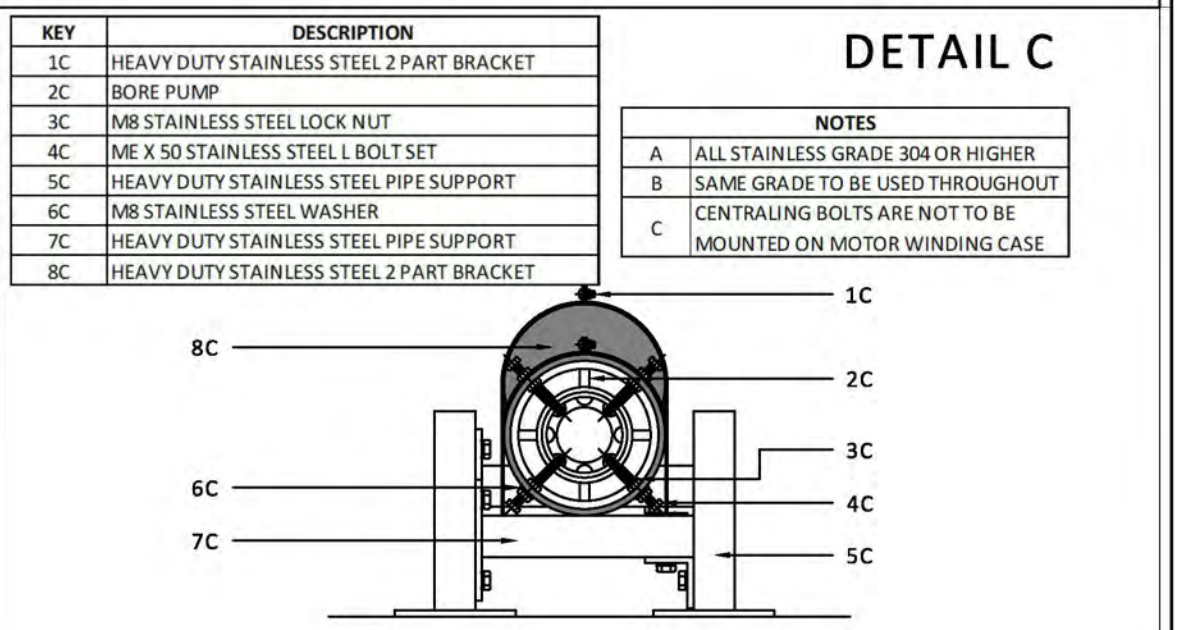
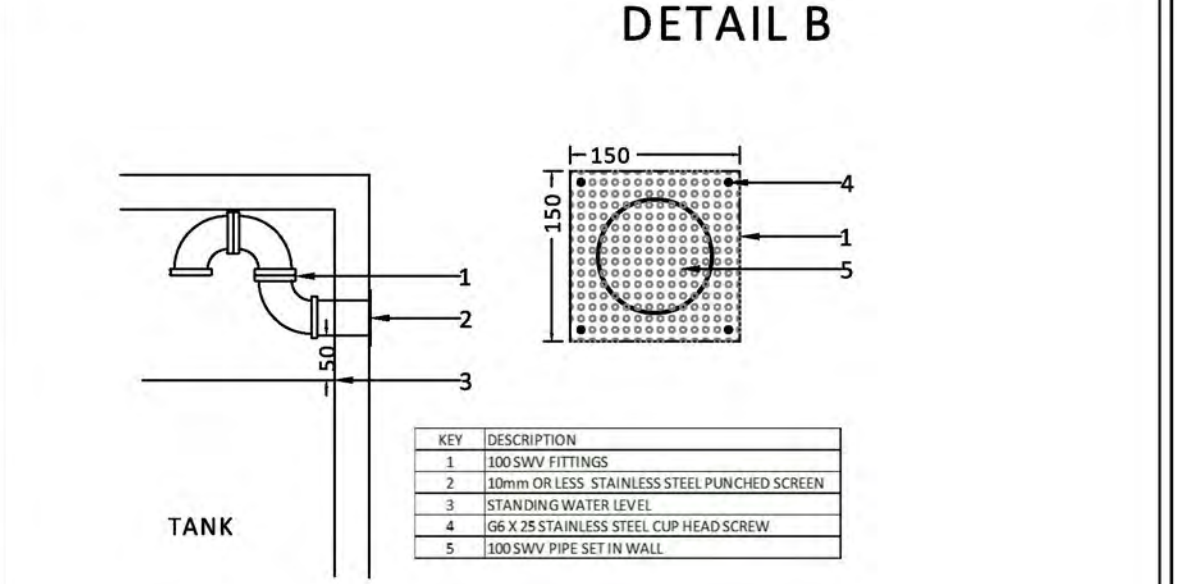
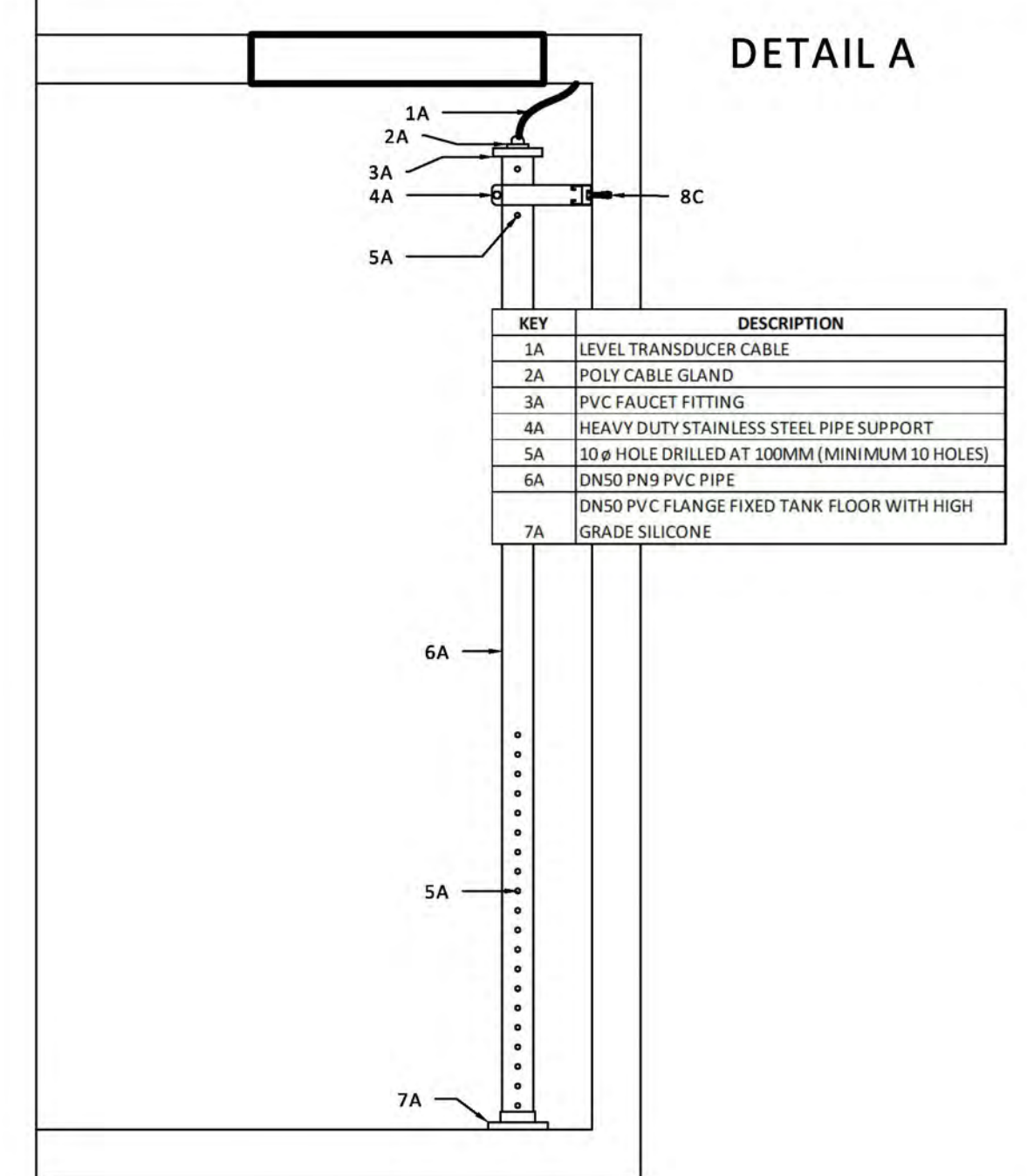
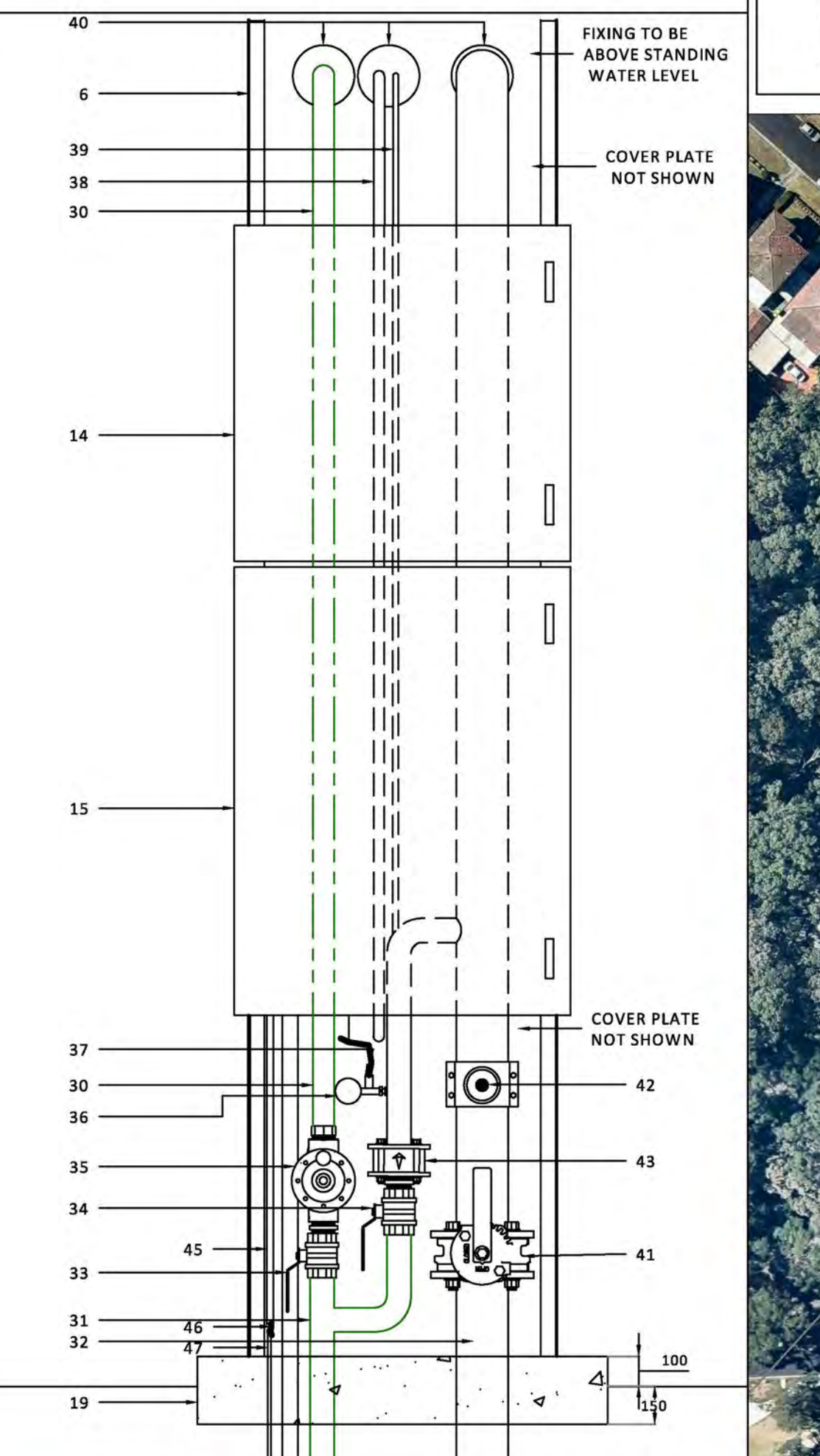


- ALL PENETRATIONS MUST BE MADE GOOD TO THE HIGHEST STANDARD
- THE TANK ACCESS HOLE MUST NOT BE OBSTRUCTED
- TANK BASE TO BE TO MANUFACTURES REQUIREMENTS
- ALL CONDUIT ENTRIES INTO THE TANK AND PITS MUST BE MADE GOOD
- LEAVE 0.5m OF CABLE EITHER SIDE OF JOINT WITHIN ELECTRICAL PIT
- NO ELECTRICAL JOINTS ARE TO BE WITHIN THE TANK
- ALL FITTINGS ARE TO BE ELECTROFUSION UNLESS SHOWN OTHERWISE
- COPPER JOINTS ARE TO BE DONE WITH 5% MINIMUM SILVER SOLDER
- ALL VALVE COVERS AND PITS ARE TO BE SET AT FINISHED GROUND LEVEL
- WITH A TOLERANCE OF 0 TO -20mm

KEY	DESCRIPTION
1	NB 100 OVERFLOW (REFER "DETAIL B")
2	CONCRETE STORAGE TANK WITH 3KPA RATED LID
3	WARNING SIGN - SET BELOW EACH ACCESS COVER
4	600 X 600 GALVANISED HINGED LID WITH RECESSED PADLOCK LOCK
5	WAFER STYLE NON RETURN VALVE (REFER "TABLE A" FOR SIZE)
6	50 X 50 GALVANISED STEEL POST
7	HEAVY DUTY STAINLESS STEEL PIPE SUPPORT
8	10 Ø HOLE DRILLED ABOVE STANDING WATER LEVEL
9	FLOAT WEIGHT
10	FLOAT SWITCH (EMERGENCY STOP FILLING VALVE)
11	DN50 PN9 PVC PIPE AS LEVEL TRANSDUCER STILLING PIPE (REFER "DETAIL A")
12	PN12.5 FACTORY SUPPLIED PIPE (REFER "TABLE A" FOR SIZE)
13	STAINLESS STEEL ENCLOSURE (IRRIGATION CONTROLLER), MATCHED TO PUMP CONTROL CABINET
14	TOP SECTION- MECHANICAL PROTECTION FABRICATED 304 1.2MM STAINLESS STEEL SHEET
14A	SIDE SECTION (QNT 2)MECHANICAL PROTECTION FABRICATED 304 1.2MM STAINLESS STEEL SHEET
14B	BOTTOM SECTION MECHANICAL PROTECTION FABRICATED 304 1.2MM STAINLESS STEEL SHEET
15	STAINLESS STEEL ENCLOSURE (PUMP CONTROLLER)
16	FLOAT SWITCH (EMERGENCY STOP IRRIGATION PUMP)
17	SUBMERSIBLE CABLE (NO JOINTS TO BE BELOW WATER)
18	REINFORCED CONCRETE SLAB
19	RECYCLED ROAD BASE SIZE 20-25
20	10 Ø HOLE DRILLED AT 100MM (MINIMUM 10 HOLES)
21	DN50 PVC FLANGE FIXED TANK FLOOR WITH HIGH GRADE SILICONE
22	HEAVY DUTY STAINLESS STEEL PIPE SUPPORT
23	STAINLESS STEEL PIPE PIECE SAME SIZE AS PUMP DISCHARGE
24	PVC ON STAINLESS STEEL PUMP SHROUD
25	SUBMERSIBLE PUMP (REINSTALLED)
26	ANTI VORTEX INLET PIPE PIECE
27	PVC END CAP
28	LEVEL TRANSDUCER IN STILLING PIPE - REFER "DETAIL A"
29	DN25 AIR RELIEF VALVE-REFER DETAIL D"
30	PN9 PVC TANK FILL PIPE - REFER "TABLE B"
31	COPPER OR STAINLESS STEEL WATER PIPE - INCOMING POTABLE WATER - REFER "TABLE B"
32	FLOAT SWITCH (EMERGENCY STOP IRRIGATION PUMP)
33	POTABLE FILL STAINLESS STEEL BALL VALVE-REFER "TABLE B"
34	BYPASS STAINLESS STEEL BALL VALVE-REFER "TABLE B"
35	POTABLE FILL PRESSURE SUSTAINING VALVE- REFER TABLE B
36	DN65 LIQUID FILLED PRESSURE GAUGE
37	PRESSURE TRANSDUCER WITH DN10 ISOLATION VALVE ON INLET
38	PUMP MOTOR POWER CABLE IN MD CONDUIT
39	LEVEL TRANSDUCER AND FLOAT SWITCH CABLES IN MD CONDUIT
40	PENETRATIONS TO MATCH PIPE WORK
41	BUTTERFLY VALVE - REFER TABLE B
42	FLOW SENSOR
43	WAFER STYLE NON RETURN VALVE (REFER "TABLE B" FOR SIZE)
44	G10 PAN HEAD STAINLESS STEEL SCREWS WITH WALL PLUG

TABLE A		TABLE B						
MAINLINE VALVE TABLE		TANK FILL						
MAINLINE SIZE	ITEM 5 NON-RETURN PIPE	ITEM 31 SUPPLY PIPE	ITEM 30 FILL PIPE	ITEM 33 BALL VALVE	ITEM 34 BALL VALVE	ITEM 35 FILL VALVE	ITEM 41 VALVE	ITEM 43 NON-RETURN
40	40	40	40	40	40	40	40	40
50	50	50	50	50	50	50	50	50
63	63	63	63	63	63	63	63	63
75	75	75	75	75	75	75	75	75
90	90	90	90	90	90	90	90	90
110	110	110	110	110	110	110	110	110
125	125	125	125	125	125	125	125	125
160	160	160	160	160	160	160	160	160
200	200	200	200	200	200	200	200	200

HEADWORKS AND CONTROL



10/150mm diameter P.V.C columns reinforced with 1-N12 bars full height.

150mm thick walls

130mm ROOF SLAB
SL82 Fabric top & bottom

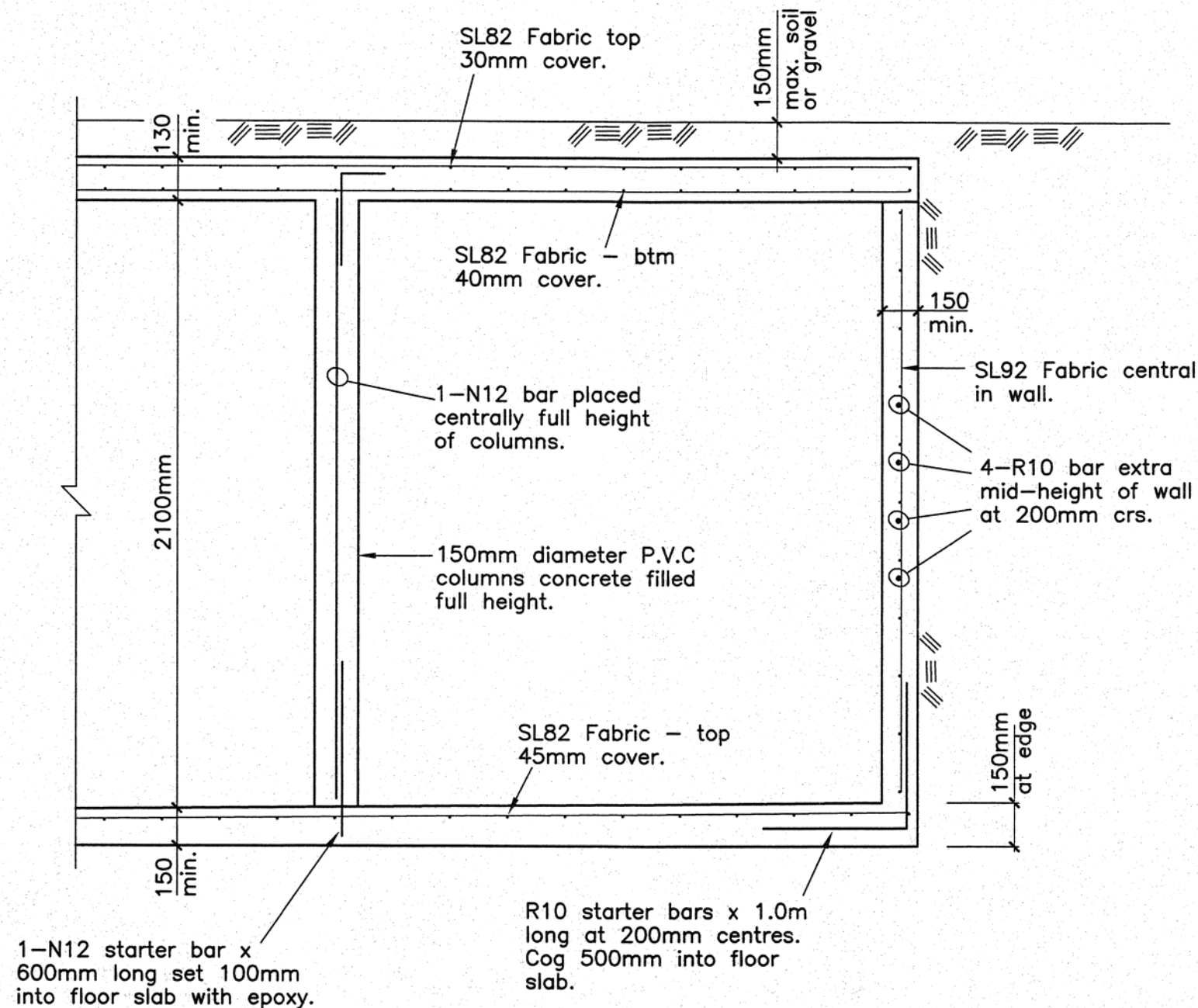
PLAN.

9600mm approx. Internal diameter

NOTES:

1. All dimensions in millimetres.
2. Tanks to be fitted with one overflow pipe.
3. Base of tank to be excavated to bearing on firm uniform natural ground with a safe bearing capacity of at least 200kPa.
4. Characteristic compressive strength to be 32MPa in accordance with AS3600 and have a minimum slump of 80mm.
5. Reinforcement to be supported on bar chairs spaced at 600mm centres bothways. Lap one uncut wire panel plus 25mm at splices.
6. The roof slab is designed for light loading and is unsuitable for crowd load.
- 7.

The tank has been designed with reference to the requirements of "Concrete Structures for Retaining Liquids, AS3735-2001" and "Concrete Structures, AS3600-2018".



DETAIL - TYPICAL SECTION.

- Adequate drainage at base of excavation must be provided to prevent uplift due to buoyancy when empty.

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Peter R. ANDRESEN, B.E. M.I.E. Aust, C.P. Eng.



SCALE	1:100, 1:20
DATE	7.11.19
DRAWN	P. Martin
DESIGNED	P. Andresen
APPROVED	<i>M. Andresen</i> C.Eng

Client: Panther Concrete Tanks.
Standard 150,000 litre,
9.6m Diameter Tank.

DRAWING NUMBER	60056-37A
ISSUE	