MIDDLE HEAD PAVILION

DISCIPLINE: CIVIL SERVICES

LOCALITY PLAN

LEGEND

FALL	FALL DIRECTION
OLF	OVERLAND FLOW
	GRATED STORMWATER PIT (PROPOSED / EXISTING)
	SEALED STORMWATER PIT (PROPOSED / EXISTING)
	SITE BOUNDARY
RL XX.XX	LEVEL TAG
DP	DOWN PIPE
RWO	RAINWATER OUTLET
PBO	PLANTERBOX OUTLET
CO	CLEAROUT
IO	INSPECTION OPENING
TG	TRENCH GRATE
S/S Ø100	PROPOSED SUBSOIL PIPE
STW Ø100	PROPOSED STORMWATER PIPE
cSTW Ø100	PROPOSED CHARGED STORMWATER PIPE
RW Ø100	PROPOSED RAINWATER PIPE
cRW Ø100	PROPOSED CHARGED RAINWATER PIPE
SWRM Ø100	PROPOSED RISING MAIN
OH	PROPOSED OVERHEAD ELECTRICAL
OH X OH X	REMOVED OVERHEAD ELECTRICAL
eOH	EXISTING OVERHEAD ELECTRICAL
HV	PROPOSED HIGH VOLTAGE
eHV	EXISTING HIGH VOLTAGE
E	PROPOSED ELECTRICAL
eE	EXISTING ELECTRICAL
W	PROPOSED POTABLE WATER
eW	EXISTING POTABLE WATER
C	PROPOSED COMMS
eC	EXISTING COMMS
G	PROPOSED GAS
eG	EXISTING GAS
S	PROPOSED SEWER
eS	EXISTING SEWER
SW	PROPOSED STORMWATER
eSW	EXISTING STORMWATER
U	EXISTING UNKOWN SERVICE
TPZ = R3.5m	TREE PROTECTION ZONE
RWT	ABOVE GROUND RAINWATER HARVESTING
100 STEP	DOWNPIPE SPREADER
	STEP DOWN
1 / DWG	FOR SECTION VIEW / REFER TO DRAWING
-- / --	SERVICE / SERVICE NUMBER / PIPE SIZE

AHD	AUSTRALIAN HEIGHT DATUM
AP	ACCESS PANEL
BG	BOX GUTTER
DP	DOWNPIPE
e	EXISTING
FFL	FINISHED FLOOR LEVEL
GIP	GRATED INLET PIT
HL	HIGH LEVEL IN CEILING
HP	HIGH POINT
IL	INVERT LEVEL
INT	INTERNAL
KIP	KERB INLET PIT
O/F	OVERFLOW
RHS	RECTANGULAR HOLLOW SECTION
RL	RELATIVE LEVEL
RWH	RAINWATER HEAD
RWT	RAINWATER TANK
SRL	SLAB RELATIVE LEVEL
SRZ	STRUCTURAL ROOT ZONE
TBA	TO BE ADVISED
TG	TRENCH GRATE
TKL	TOP KERB LEVEL
TRZ	TREE ROOT ZONE
UNO	UNLESS NOTED OTHERWISE

DRAWING LIST

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PROJECT
1110 MIDDLE HEAD ROAD, MOSMAN

ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
COVER SHEET

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	N.R.	SCALE @ A1
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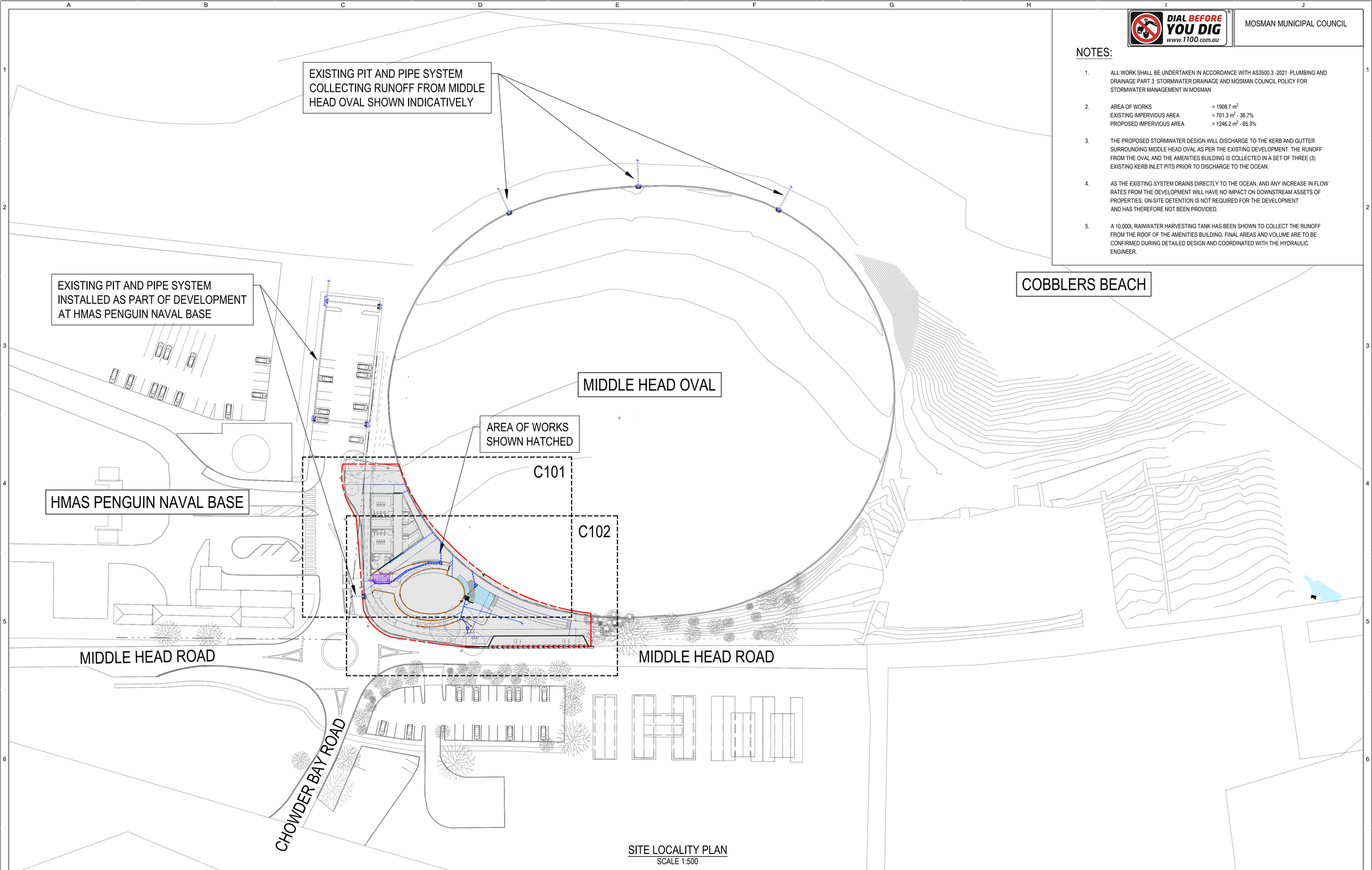
240101	**C-DA000**	**P2**

May 06, 2024 – 10:57am C:\Users\AMACLA~1\AppData\Local\Temp\AcPublish_26388\240101-C-DA000.dwg



SITE LOCALITY PLAN
SCALE 1:500

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NOTES:

1. ALL WORK SHALL BE UNDERTAKEN IN ACCORDANCE WITH AS3500.3 -2021 PLUMBING AND DRAINAGE PART 3: STORMWATER DRAINAGE AND MOSMAN COUNCIL POLICY FOR STORMWATER MANAGEMENT IN MOSMAN
2. AREA OF WORKS = 1908.7 m^2
   EXISTING IMPERVIOUS AREA = 701.3 m^2 - 36.7%
   PROPOSED IMPERVIOUS AREA = 1246.2 m^2 - 65.3%
3. THE PROPOSED STORMWATER DESIGN WILL DISCHARGE TO THE KERB AND GUTTER SURROUNDING MIDDLE HEAD OVAL AS PER THE EXISTING DEVELOPMENT. THE RUNOFF FROM THE OVAL AND THE AMENITIES BUILDING IS COLLECTED IN A SET OF THREE (3) EXISTING KERB INLET PITS PRIOR TO DISCHARGE TO THE OCEAN.
4. AS THE EXISTING SYSTEM DRAINS DIRECTLY TO THE OCEAN, AND ANY INCREASE IN FLOW RATES FROM THE DEVELOPMENT WILL HAVE NO IMPACT ON DOWNSTREAM ASSETS OF PROPERTIES, ON-SITE DETENTION IS NOT REQUIRED FOR THE DEVELOPMENT AND HAS THEREFORE NOT BEEN PROVIDED.
5. A 10,000L RAINWATER HARVESTING TANK HAS BEEN SHOWN TO COLLECT THE RUNOFF FROM THE ROOF OF THE AMENITIES BUILDING. FINAL AREAS AND VOLUME ARE TO BE CONFIRMED DURING DETAILED DESIGN AND COORDINATED WITH THE HYDRAULIC ENGINEER.

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1110 MIDDLE HEAD ROAD, MOSMAN

ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
SITE LOCALITY PLAN

PRELIMINARY ISSUE
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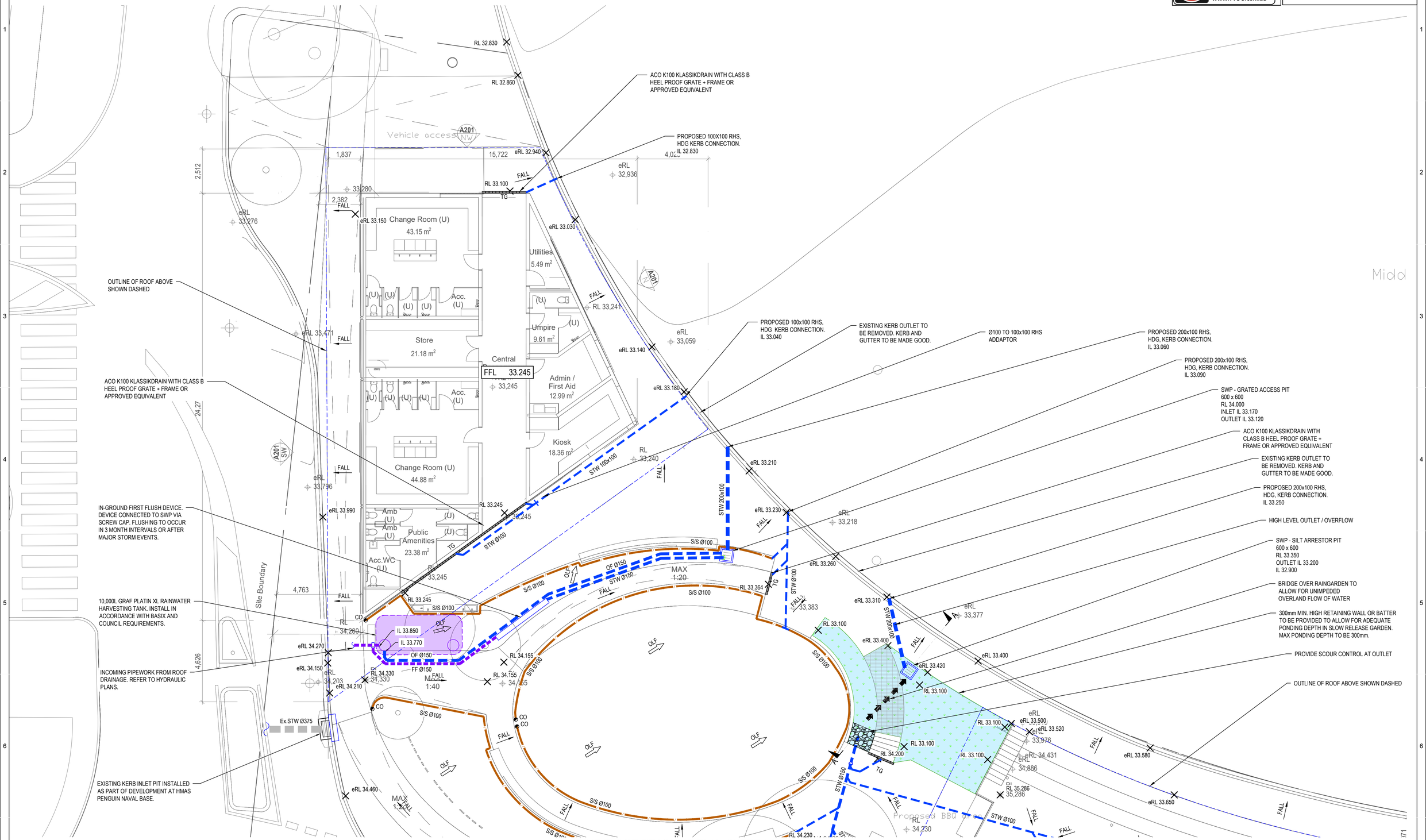

GROUND FLOOR DRAINAGE PLAN SHEET 1 OF 2

SCALE 1:100

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ALTERATIONS AND ADDITIONS

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CIVIL SERVICES
GROUND FLOOR DRAINAGE PLAN SHEET 1 OF 2

PRELIMINARY ISSUE
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Store 21.18 m²
Central
FFL 33.245
Umpire 9.61 m²
Admin / First Aid 12.99 m²
Kiosk 18.36 m²
Change Room (U) 44.88 m²
Amb (U)
Amb (U)
Public Amenities 23.38 m²
Acc.WC (U)
Acc. (U)
Site Boundary
Middle Head Road

PROPOSED 100x100 RHS, HDG KERB CONNECTION. IL 33.040
EXISTING KERB OUTLET TO BE REMOVED. KERB AND GUTTER TO BE MADE GOOD.
Ø100 TO 100x100 RHS ADDAPTOR
PROPOSED 200x100 RHS, HDG, KERB CONNECTION. IL 33.060
PROPOSED 200x100 RHS, HDG, KERB CONNECTION. IL 33.090
SWP - GRATED ACCESS PIT 600 x 600 RL 34.000 INLET IL 33.170 OUTLET IL 33.120
ACO K100 KLASSIKDRAIN WITH CLASS B HEEL PROOF GRATE + FRAME OR APPROVED EQUIVALENT
EXISTING KERB OUTLET TO BE REMOVED. KERB AND GUTTER TO BE MADE GOOD.
PROPOSED 200x100 RHS, HDG, KERB CONNECTION. IL 33.250
HIGH LEVEL OUTLET / OVERFLOW
SWP - SILT ARRESTOR PIT 600 x 600 RL 33.350 OUTLET IL 33.200 IL 32.900
BRIDGE OVER RAINGARDEN TO ALLOW FOR UNIMPEDED OVERLAND FLOW OF WATER
300mm MIN. HIGH RETAINING WALL OR BATTER TO BE PROVIDED TO ALLOW FOR ADEQUATE PONDING DEPTH IN SLOW RELEASE GARDEN. MAX PONDING DEPTH TO BE 300mm.
PROVIDE SCOUR CONTROL AT OUTLET
OUTLINE OF ROOF ABOVE SHOWN DASHED

SWP - SEALED ACCESS PIT 450 x 450 RL XX.XXX IL XX.XXX
INCOMING PIPEWORK FROM ROOF DRAINAGE. REFER TO HYDRAULIC PLANS.
INSTALL NEW KERB AND GUTTER TO TIE IN TO EXISTING
900(W) x 50(D) DISH DRAIN

Proposed BBQ area
Proposed bicycle parking
Proposed pedestrian pa
Proposed drop-off zone

MIDDLE HEAD ROAD

GROUND FLOOR DRAINAGE PLAN SHEET 2 OF 2

SCALE 1:100

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1110 MIDDLE HEAD ROAD, MOSMAN

ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
GROUND FLOOR DRAINAGE PLAN SHEET 2 OF 2

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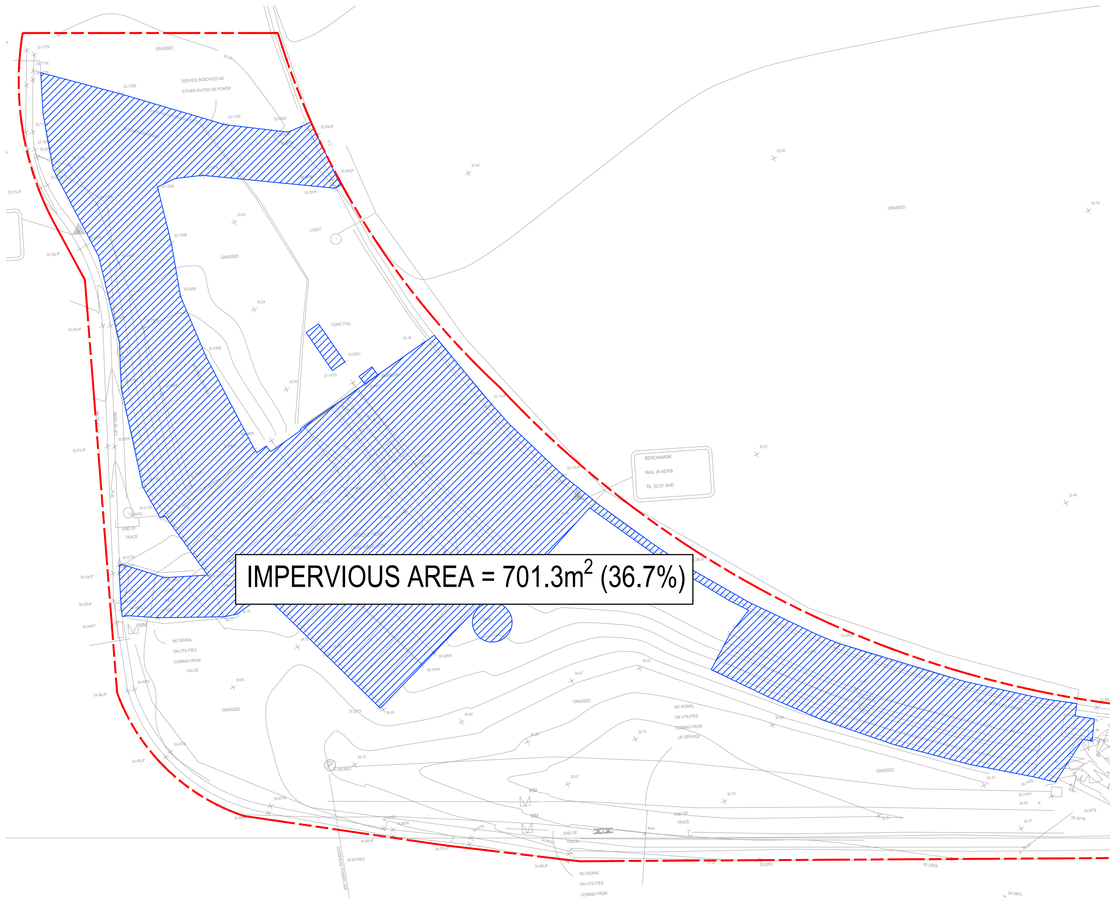
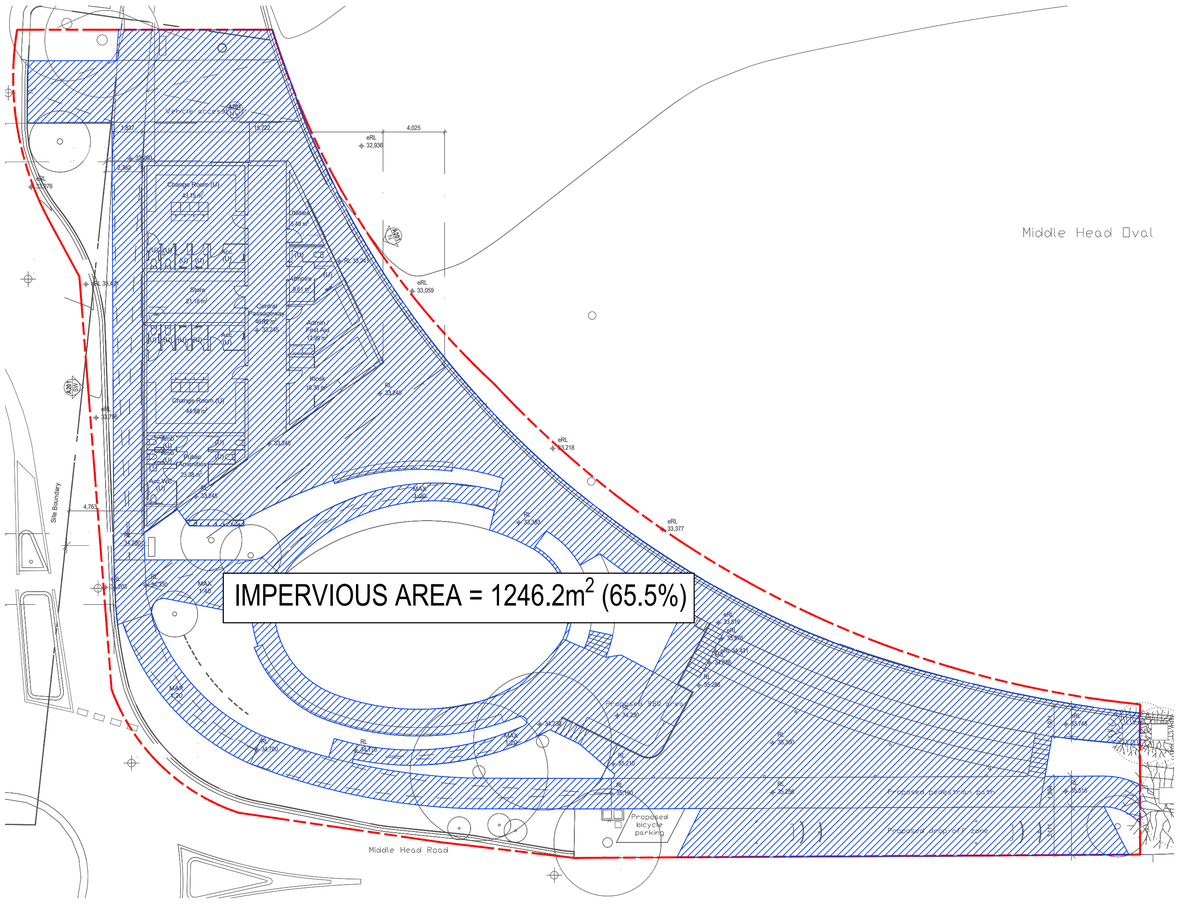


EXISTING CATCHMENT PLAN
SCALE 1:200



PROPOSED CATCHMENT PLAN
SCALE 1:200

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PROJECT
1110 MIDDLE HEAD ROAD, MOSMAN

ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
CATCHMENT ANALYSIS

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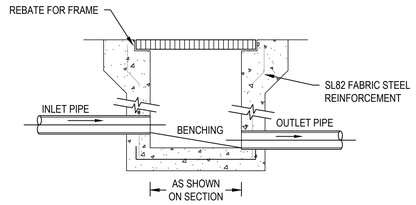
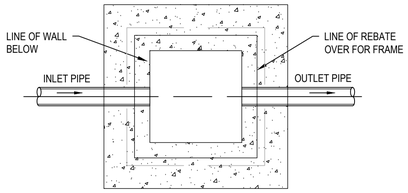
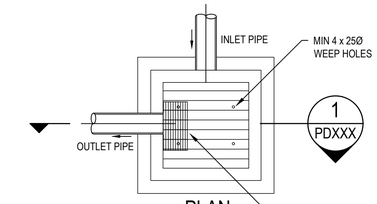


SECTION

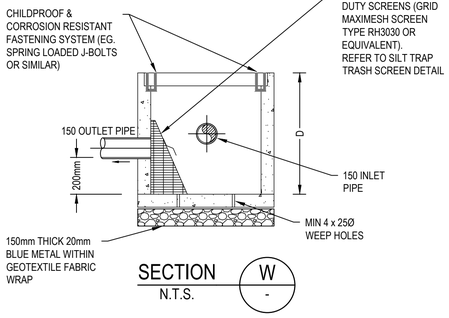


PLAN WITHOUT GRATE

TYPICAL GRATED INLET PIT
N.T.S

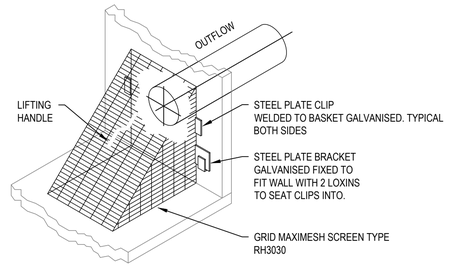


PLAN
N.T.S



SECTION W
N.T.S. -

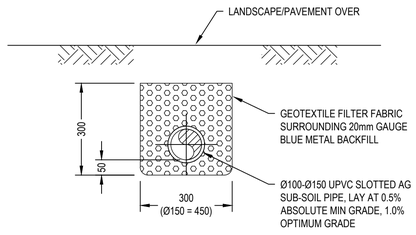
MAINTENANCE ACTION	FREQUENCY	RESPONSIBILITY	PROCEDURE
SILT TRAP PIT	MONTHLY AND AFTER HEAVY RAINFALL EVENTS	PROPERTY OWNER	OPEN GRATE AND REMOVE TRASH OR LEAF LITTER THAT HAS BEEN CAPTURED BY THE TRASH SCREEN. REMOVE ALL SILT IN SUMP AND DISPOSE IN GARDEN WASTE BIN. REMOVE ANY BLOCKAGES OVER WEEP HOLES IN BASE. ENSURE TRASH SCREEN IS SECURELY FIXED AND REPLACE GRATE CORRECTLY.



SILT TRAP TRASH SCREEN DETAIL
N.T.S

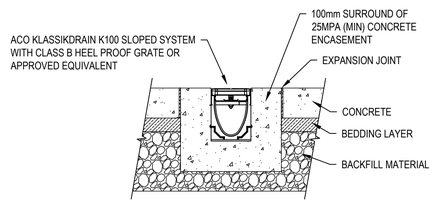
NOTES

1. PITS TO BE CONSTRUCTED FROM EQUAL TO BCP MANUFACTURER.
2. A SIGN SHALL BE CONSTRUCTED ADJACENT TO THE PIT STATING: "THIS SEDIMENT / SILT ARRESTOR PIT SHALL BE REGULARLY INSPECTED AND CLEANED".



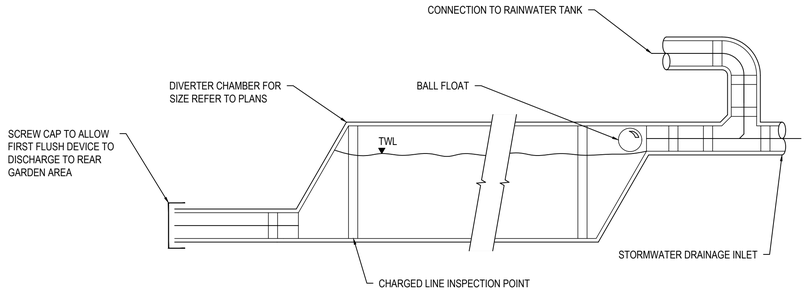
SECTION VIEW

TYPICAL SUB-SOIL DRAINAGE TRENCH
N.T.S



SECTION VIEW

TRENCH GRATE (100mm WIDE) CLASS B
N.T.S



FIRST FLUSH CLEANOUT PIT DETAIL
N.T.S.

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PROJECT
1110 MIDDLE HEAD ROAD, MOSMAN

ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
DETAILS SHEET

PRELIMINARY ISSUE
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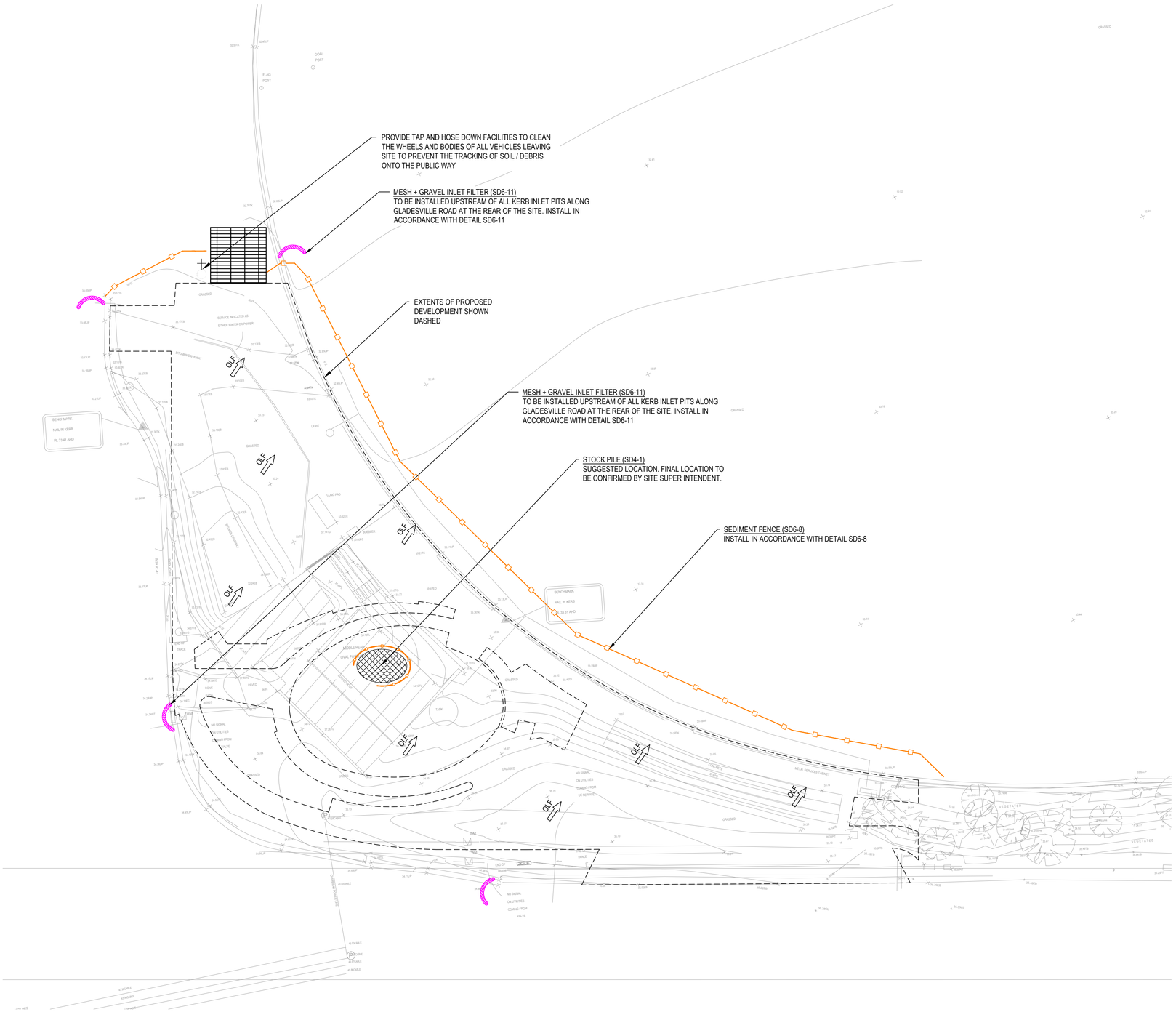

SWMP LEGEND

- SITE BOUNDARY
- SEDIMENTARY FENCE
- PROPOSED STOCKPILE LOCATION
- PROPOSED SITE ACCESS
- BOUNDARY FENCE
- R3.5m — TREE PROTECTION ZONE
- MESH + GRAVEL INLET FILTER
- SANDBAGS
- EARTH BANK (LOW FLOW)

EROSION AND SEDIMENT CONTROL PLAN

1. MEASURE PROVIDED WILL BE TO THE SATISFACTION OF THE PRINCIPAL'S REPRESENTATIVE IN ACCORDANCE WITH THE LOCAL AND STATUTORY REQUIREMENTS UNLESS NOTED OTHERWISE. ALL WORKS SHALL BE ERECTED AND CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION "BLUE BOOK", VOLUME 1 BY LANDCOM
2. ALL EXCAVATION WORKS ARE TO BE IN ACCORDANCE WITH THE GEOTECHNICAL REPORT, IF AVAILABLE, AND THE STRUCTURAL ENGINEER'S DRAWINGS.
3. INSTALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO COMMENCEMENT OF CONSTRUCTION WORKS.
4. MESH AND GRAVEL INLET FILTERS TO BE INSTALLED UPSTREAM OF PROPOSED STORMWATER PITS AS WELL AS EXISTING STORMWATER PITS DOWNSTREAM OF DISTURBED AREAS.
5. TOP SOIL WILL BE STRIPPED AND STOCKPILED FOR ALTER USE IN LANDSCAPING.
6. ALL STOCKPILES TO BE CLEAR FROM DRAINS, GUTTERS AND FOOTPATHS.
7. TOP SOIL WILL BE RE SPREAD AND ALL DISTURBED AREAS WILL BE REHABILITATED WITHIN 20 WORKING DAYS OF THE COMPLETION OF WORKS.
8. ALL SEDIMENT TO BE STORED AND COLLECTED BY A LIQUID WASTE COMPANY FOR DISPOSAL AT A LICENSED TREATMENT FACILITY.
9. ROADS AND FOOTWAYS TO BE SWEPT AT THE END OF THE DAY.
10. NO WATER CONTAINING OIL, FOAM, GREASE, SCUM OR LITTER WILL BE DISCHARGED TO THE STORMWATER DRAINAGE SYSTEM FROM THE SITE.
11. ALL STORED WASTES ARE KEPT IN DESIGNATED AREAS OR COVERED CONTAINERS THAT PREVENT ESCAPE INTO THE STORMWATER SYSTEM.
12. THE AMOUNT OF MUD, DIRT, SAND, SOIL, CLAY OR STONES DEPOSITED BY VEHICLES ON THE ABUTTING ROADS IS MINIMISED WHEN VEHICLES ARE LEAVING SITE.
13. NO MUD, DIRT, SAND, SOIL, CLAY OR STONES ARE WASHED INTO, OR ARE ALLOWED TO ENTER THE STORMWATER DRAINAGE SYSTEM.
14. THE SITE IS DEVELOPED AND MANAGED TO MINIMISE THE RISKS OF STORMWATER POLLUTION THROUGH THE CONTAMINATION OF RUN-OFF BY CHEMICALS, SEDIMENTS, ANIMAL WASTES OR GROSS POLLUTANTS IN ACCORDANCE WITH CURRENTLY ACCEPTED BEST PRACTICE.
15. ALL EROSION AND SEDIMENT CONTROLS WILL BE CHECKED AT LEAST WEEKLY AND AFTER RAINFALL EVENTS TO MAKE SURE THEY ARE MAINTAINED TO A FULLY FUNCTIONAL CONDITION.

EROSION & SEDIMENT CONTROL PLAN

SCALE 1:200

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ALTERATIONS AND ADDITIONS

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EROSION AND SEDIMENT CONTROL PLAN

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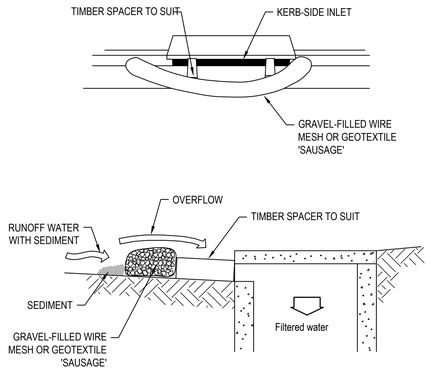
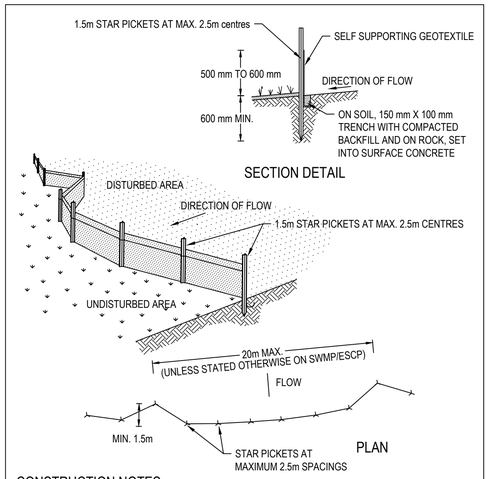


NOTE: THIS PRACTICE ONLY TO BE USED WHERE SPECIFIED IN AN APPROVED SWMP/ESCP.

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 WITH 25MM TO 50MM GRAVEL
3. FORM AN ELLIPTICAL CROSS-SECTION ABOUT 150 HIGH AND 400MM WIDE.
4. PLACE THE FILTER AT THE OPENING LEVEL 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 BE SUBSTITUTE A MESH OR GEOTEXTILE PROVIDING THEY ARE PLACED SO THAT THEY FIRMLY ABUT EACH OTHER AND SEDIMENT LADEN WATERS CANNOT PASS BETWEEN

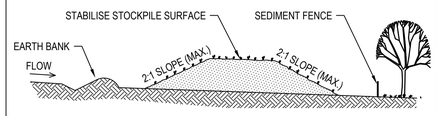
MESH AND GRAVEL INLET FILTER SD 6-11



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 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 THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

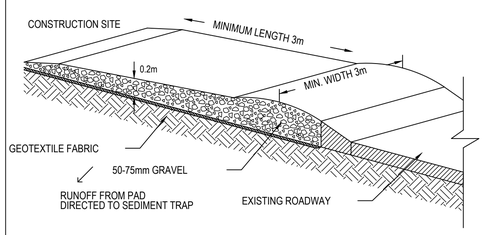
SEDIMENT FENCE SD 6-8



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 METRES 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 2 METRES DOWNSLOPE.

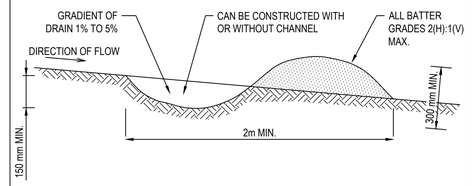
STOCKPILES SD 4-1



CONSTRUCTION NOTES:

1. STRIP THE TOPSOIL, LEVEL THE SITE AND COMPACT THE SUBGRADE.
2. COVER THE AREA WITH NEEDLE-PUNCHED GEOTEXTILE.
3. CONSTRUCT A 200 MM THICK PAD OVER THE GEOTEXTILE USING ROAD BASE OR 30 MM 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



NOTE: ONLY TO BE USED AS TEMPORARY BANK WHERE MAXIMUM UPSLOPE LENGTH IS 80 METRES.

CONSTRUCTION NOTES:

1. BUILD WITH GRADIENTS BETWEEN 1 PERCENT AND 5 PERCENT.
2. AVOID REMOVING TREES AND SHRUBS IF POSSIBLE - WORK AROUND THEM.
3. ENSURE THE STRUCTURES ARE FREE OF PROJECTIONS OR OTHER IRREGULARITIES THAT COULD IMPEDE WATER FLOW.
4. BUILD THE DRAINS WITH CIRCULAR, PARABOLIC OR TRAPEZOIDAL CROSS SECTIONS, NOT V SHAPED.
5. ENSURE THE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE.
6. COMPLETE PERMANENT OR TEMPORARY STABILISATION WITHIN 10 DAYS OF CONSTRUCTION.

EARTH BANK (LOW FLOW) SD 5-5

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified
P2	06.05.24	PRELIMINARY ISSUE	M.B.

REVISIONS / AMENDMENTS

Rev	Date	Description	Verified

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ALTERATIONS AND ADDITIONS

TITLE
CIVIL SERVICES
EROSION AND SEDIMENT CONTROL DETAILS

PRELIMINARY ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	N.R.	SCALE @ A1
CHECKED	M.B.	
APPROVED	M.B.	**AS SHOWN**
CREATED	MARCH 2024	
JOB No.	DRAWING No.	REV
240101	**C-DA501**	**P2**

May 06, 2024 – 10:57am S:\JOB No\Job No 20240100-20240199\240101 Middle Head Oval Pavilion\Drawings\Civil\240101-C-DA501.dwg