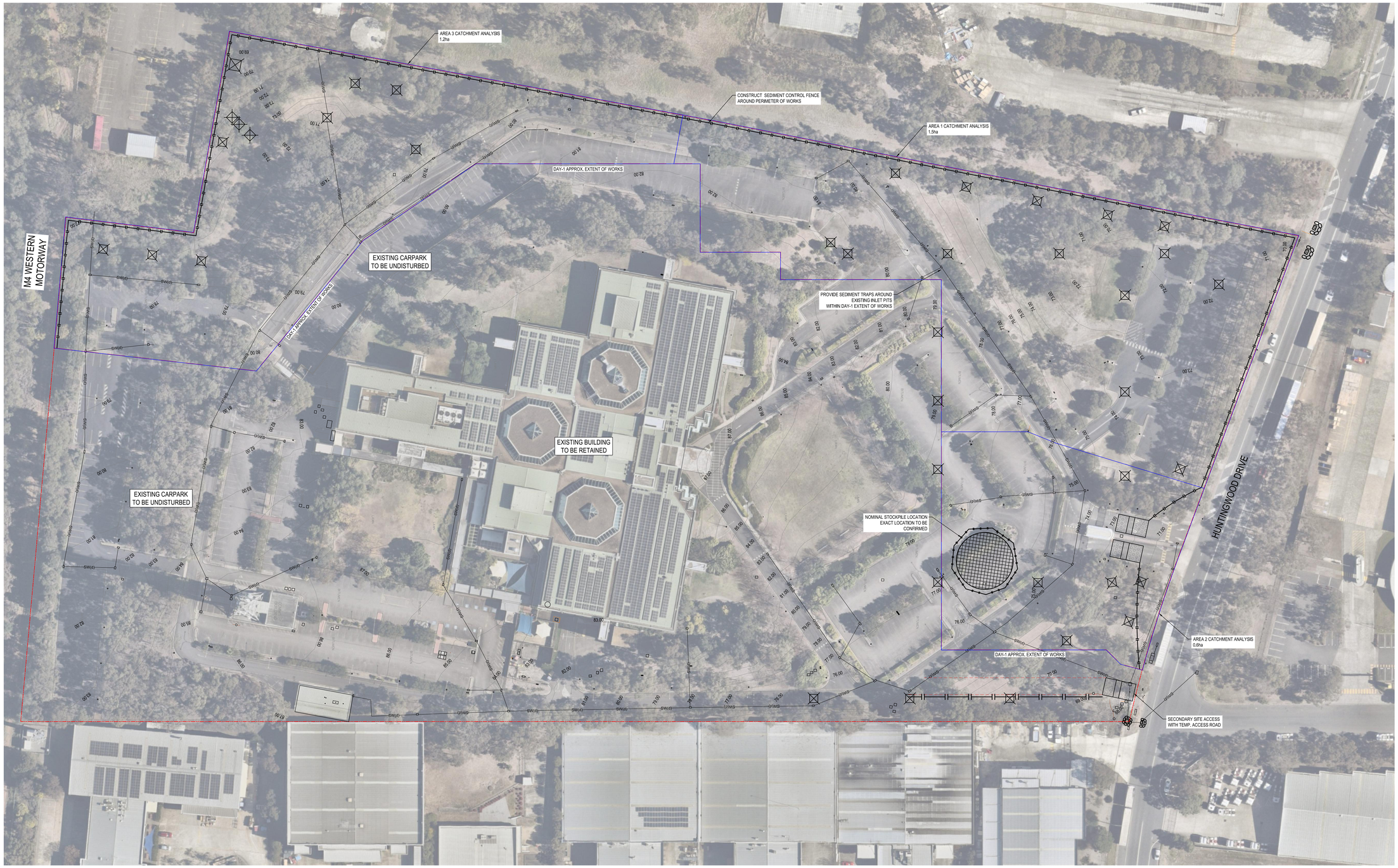


PLAN
SCALE 1:500

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NOTES:

1. REFER TO CIV-0151 FOR EROSION & SEDIMENT CONTROL NOTES.
2. CONTRACTOR TO PROVIDE ADEQUATE EROSION CONTROL MEASURE IF UNDISTURBED AREA GET DISTURBED WITH CONSTRUCTION ACTIVITY.
3. ONLY EXISTING STORMWATER SERVICES SHOWN ON THIS PLAN.

ISSUE	DATE	REVISION DESCRIPTION
1	31-08-2023	ISSUED FOR INFORMATION

SCALE BAR
0 10 20 30
SCALE 1:500

MAIN CONTRACTOR
AW EDWARDS

CLIENT
AIRTRUNK

CIVIL ENGINEER
van der Meer Consulting
van der meer
LEVEL 6, 39 CHANDOS STREET
SYDNEY NSW 2065
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ABN 56 158 296 301

PROJECT
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HUNTINGWOOD NSW 2148

DRAWN BY	SCALE
H.B.	1:500@ A0
CHECKED BY	APPROVED BY
A.W.	
DATE	JOB NUMBER
	SY212-053

PROJECT STATUS
60% DETAILED DESIGN

DRAWING TITLE
EROSION & SEDIMENT CONTROL PLAN - DAY 1

PROJECT IDENTIFIER
ATSYD3-GEN-DRG-VDM-

DRAWING NUMBER & REVISION
CIV-0101.1

EROSION AND SEDIMENT NOTES

B1. THIS PLAN IS TO BE READ IN CONJUNCTION WITH EROSION AND SEDIMENT CONTROL DETAILS AS SHOWN

B2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS NECESSARY AND TO THE SATISFACTION OF COUNCIL PRIOR TO THE COMMENCEMENT OF AND DURING CONSTRUCTION. NO DISTURBANCE TO THE SITE SHALL BE PERMITTED OTHER THAN IN THE IMMEDIATE AREA OF THE WORKS AND NO MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT COUNCIL'S APPROVAL. ALL EROSION AND SEDIMENT CONTROL DEVICES TO BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH STANDARDS OUTLINED IN NSW DEPARTMENT OF HOUSING'S "MANAGING URBAN STORMWATER - SOILS AND CONSTRUCTIONS".

B3. TOPSOIL SHALL BE STRIPPED AND STOCKPILED OUTSIDE HAZARD AREAS SUCH AS DRAINAGE LINES. THIS TOPSOIL IS TO BE RESPREAD LATER ON AREAS TO BE REVEGETATED AND STABILISED ONLY. (I.E. ALL FOOTPATHS, BATTERS, SITE REGARDING AREAS, BASINS AND CATCHDRAINS). TOPSOIL SHALL NOT BE RESPREAD ON ANY OTHER AREAS UNLESS SPECIFICALLY INSTRUCTED BY THE SUPERINTENDENT, IF THEY ARE TO REMAIN FOR LONGER THAN ONE MONTH STOCKPILES SHALL BE PROTECTED FROM EROSION BY COVERING THEM WITH A MULCH AND HYDROSEEDING AND, IF NECESSARY, BY LOCATING BANKS OR DRAINS DOWNSTREAM OF A STOCKPILE TO RETARD SILT LADEN RUNOFF.

B4. THE CONTRACTOR SHALL REGULARLY MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES AND REMOVE ACCUMULATED SILT FROM DEVICES SUCH THAT NO MORE THAN 60% OF THEIR CAPACITY IS LOST. ALL THE SILT IS TO BE PLACED OUTSIDE THE LIMIT OF WORKS. THE PERIOD FOR MAINTAINING THESE DEVICES SHALL BE AT LEAST UNTIL ALL DISTURBED AREAS ARE REVEGETATED OR AS DIRECTED BY THE SUPERINTENDENT OR COUNCIL.

B5. VEHICULAR TRAFFIC SHALL BE CONTROLLED DURING CONSTRUCTION CONFINING ACCESS WHERE POSSIBLE TO NOMINATED STABILISED ACCESS POINTS.

B6. THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL BY REGULAR WETTING DOWN (BUT NOT SATURATING) DISTURBED AREA.

B7. PROVIDE AND MAINTAIN SILT TRAPS AROUND ALL SURFACE INLET PITS UNTIL CATCHMENTS ARE REVEGETATED OR PAVED.

B8. REVEGETATE ALL TRENCHES IMMEDIATELY UPON COMPLETION OF BACKFILLING.

B9. ALL DRAINAGE PIPE INLETS TO BE CAPPED UNTIL :
A) DOWNPIPES CONNECTED
B) PITS CONSTRUCTED AND PROTECTED WITH SILT BARRIER

B10. SILT FENCE MAINTENANCE INSPECTION TO BE CARRIED OUT EVERY 3 MONTHS AND AFTER EACH RAINFALL EVENT.

B11. EROSION & SEDIMENT CONTROL SIGNAGE AVAILABLE FROM COUNCIL MUST BE ATTACHED TO THE MOST PROMINENT AVAILABLE STRUCTURE AND BE VISIBLE AT ALL TIMES WHEN ENTERING THE SITE FOR THE DURATION OF CONSTRUCTION.

SEDIMENT BASIN CALCULATION - AREA 1

SITE AREA	
TOTAL CATCHMENT AREA (ha)	1.5
DISTURBED CATCHMENT AREA (ha)	1.5
RAINFALL DATA	
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (PERCENTILE)	85
5-DAY, 85-PERCENTILE RAINFALL EVENT	32.20
RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	8.5
RUSLE FACTORS	
RAINFALL EROSIVITY (R-FACTOR)	1690
SOIL ERODIBILITY (K-FACTOR)	0.05
SLOPE LENGTH (m)	50
SLOPE GRADIENT (%)	4
LENGTH/GRADIENT (LS-FACTOR)	0.71
EROSION CONTROL PRACTICE (P-FACTOR)	1.3
GROUND COVER (C-FACTOR)	1
CALCULATION	
SOIL LOSS (t/ha/yr)	78
SOIL LOAD CLASS	1
SOIL LOSS (m3/ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m³	15

ANNUAL SOIL LOSS = 78 x 1,5 = 117 m^3
WHICH IS LESS THAN 150 m^3.
A SEDIMENT BASIN IS NOT REQUIRED AT THIS SITE.

SEDIMENT BASIN CALCULATION - AREA 2

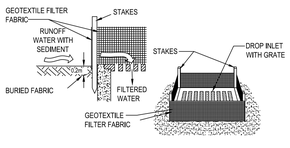
SITE AREA	
TOTAL CATCHMENT AREA (ha)	0.6
DISTURBED CATCHMENT AREA (ha)	0.6
RAINFALL DATA	
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (PERCENTILE)	85
5-DAY, 85-PERCENTILE RAINFALL EVENT	32.20
RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	8.5
RUSLE FACTORS	
RAINFALL EROSIVITY (R-FACTOR)	1690
SOIL ERODIBILITY (K-FACTOR)	0.05
SLOPE LENGTH (m)	50
SLOPE GRADIENT (%)	4
LENGTH/GRADIENT (LS-FACTOR)	0.71
EROSION CONTROL PRACTICE (P-FACTOR)	1.3
GROUND COVER (C-FACTOR)	1
CALCULATION	
SOIL LOSS (t/ha/yr)	78
SOIL LOAD CLASS	1
SOIL LOSS (m3/ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m³	6

ANNUAL SOIL LOSS = 78 x 0,6 = 46,8 m^3
WHICH IS LESS THAN 150 m^3.
A SEDIMENT BASIN IS NOT REQUIRED AT THIS SITE.

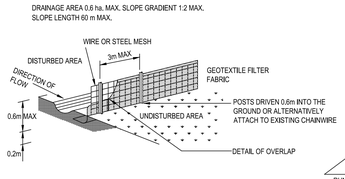
SEDIMENT BASIN CALCULATION - AREA 3

SITE AREA	
TOTAL CATCHMENT AREA (ha)	1.2
DISTURBED CATCHMENT AREA (ha)	1.2
RAINFALL DATA	
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (PERCENTILE)	85
5-DAY, 85-PERCENTILE RAINFALL EVENT	32.20
RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	8.5
RUSLE FACTORS	
RAINFALL EROSIVITY (R-FACTOR)	1690
SOIL ERODIBILITY (K-FACTOR)	0.05
SLOPE LENGTH (m)	50
SLOPE GRADIENT (%)	4
LENGTH/GRADIENT (LS-FACTOR)	0.71
EROSION CONTROL PRACTICE (P-FACTOR)	1.3
GROUND COVER (C-FACTOR)	1
CALCULATION	
SOIL LOSS (t/ha/yr)	78
SOIL LOAD CLASS	1
SOIL LOSS (m3/ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m³	12

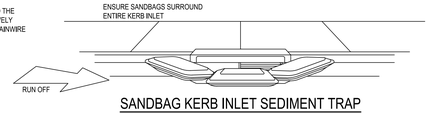
ANNUAL SOIL LOSS = 78 x 1,500 = 93,6 m^3
WHICH IS LESS THAN 150 m^3.
A SEDIMENT BASIN IS NOT REQUIRED AT THIS SITE.



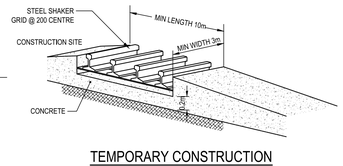
GEOTEXTILE FILTER FABRIC INLET SEDIMENT TRAP
N.T.S.



SEDIMENT CONTROL FENCE
N.T.S.



SANDBAG KERB INLET SEDIMENT TRAP
NTS



TEMPORARY CONSTRUCTION VEHICLE EXIT
N.T.S.

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HUNTINGWOOD NSW 2148

DRAWN BY	SCALE
H.B.	NTS
CHECKED BY	APPROVED BY
A.W.	
DATE	JOB NUMBER
	SY212-053

PROJECT STATUS
60% DETAILED DESIGN

DRAWING TITLE
EROSION & SEDIMENT CONTROL DETAILS

PROJECT IDENTIFIER
ATSYD3-GEN-DRG-VDM-

DRAWING NUMBER & REVISION
CIV-0151.1