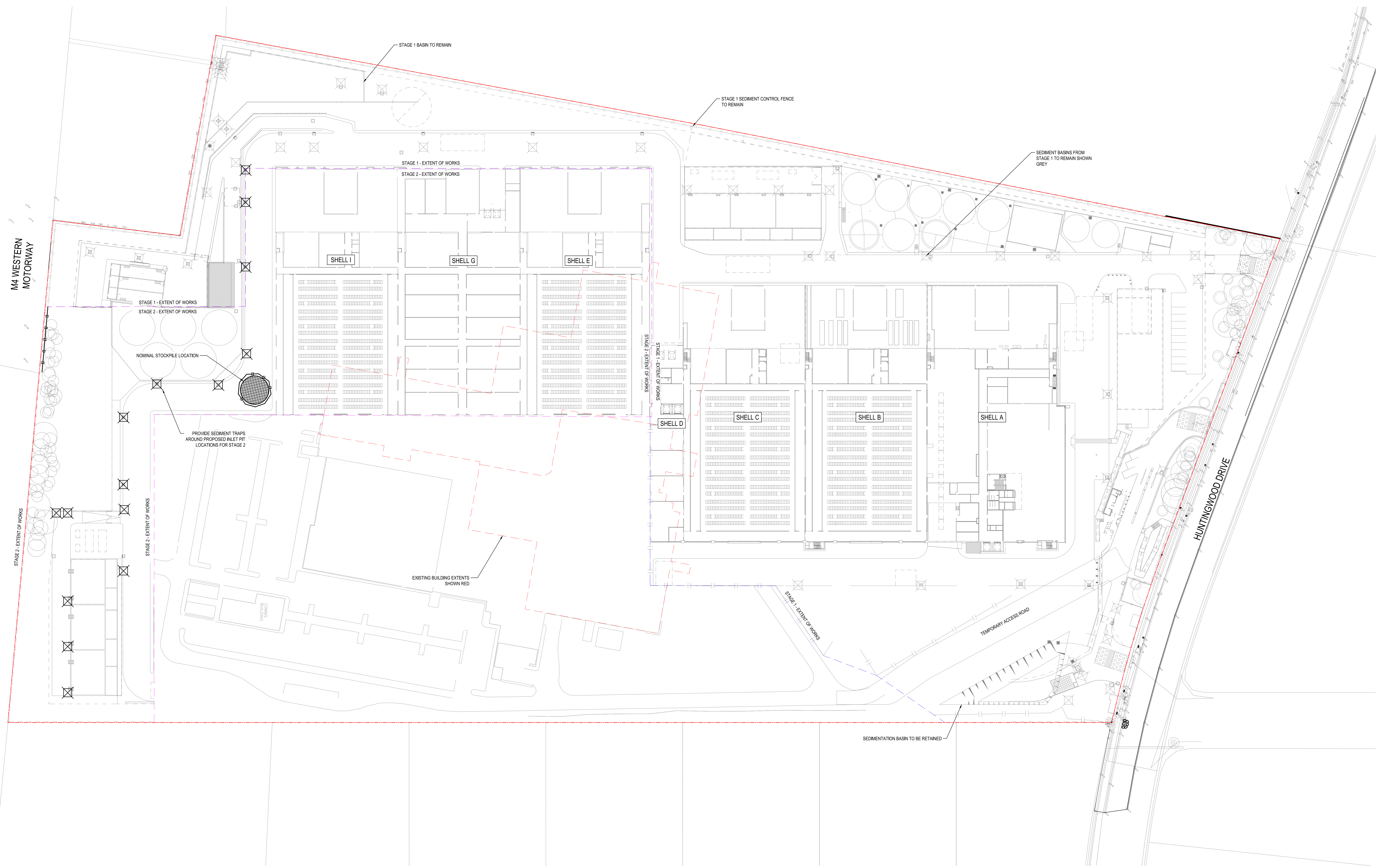


LEGEND

- STORMWATER SEDIMENT TRAPS AT ALL PROPOSED PIT INLETS
- TEMPORARY CONSTRUCTION ACCESS REFER TO DRAWING CIV-0151 FOR DETAILS
- SEDIMENT CONTROL FENCE REFER TO DRAWING CIV-0151 FOR DETAILS
- STOCKPILE AREA
- STAGE 1 EXTENTS
- STAGE 2 EXTENTS

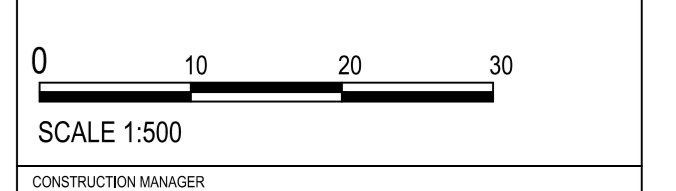
KEY PLAN

ISSUE	DATE	DESCRIPTION
A	05-10-2024	ISSUED FOR CONSTRUCTION
B	16-10-2024	ISSUED FOR CONSTRUCTION



- 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.

USE WRITTEN DIMENSIONS ONLY
 1. CHECK ALL DIMENSIONS FROM DIMENSION LINES
 2. CHECK ALL DIMENSIONS FROM DIMENSION LINES FROM TO CORNER OR CENTER UNLESS SPECIFIED OTHERWISE
 3. CHECK ALL DIMENSIONS FROM DIMENSION LINES FROM TO CORNER OR CENTER UNLESS SPECIFIED OTHERWISE
 4. CHECK ALL DIMENSIONS FROM DIMENSION LINES FROM TO CORNER OR CENTER UNLESS SPECIFIED OTHERWISE
 5. CHECK ALL DIMENSIONS FROM DIMENSION LINES FROM TO CORNER OR CENTER UNLESS SPECIFIED OTHERWISE



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PROJECT

AIRTRUNK SYD3
 51 HUNTINGWOOD DRIVE
 HUNTINGWOOD NSW 2148

SCALE	SCALE
H.B.	1:500 @ A0
DESIGNED BY	A.W.
DRAWN BY	JENNY
DATE	SY212-053

FOR INFORMATION

PROJECT TITLE	EROSION & SEDIMENT CONTROL PLAN
PROJECT NUMBER	STAGE 2 - SHELL E, G & I
PROJECT LOCATION	ATKINS-CEN-010-VDM-
PROJECT NUMBER	CIV-0112.B

PLAN
 SCALE 1:500

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 CATCHMENTS). 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 50% OF THEIR CAPACITY IS LOST. ALL 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 CONTAINING 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

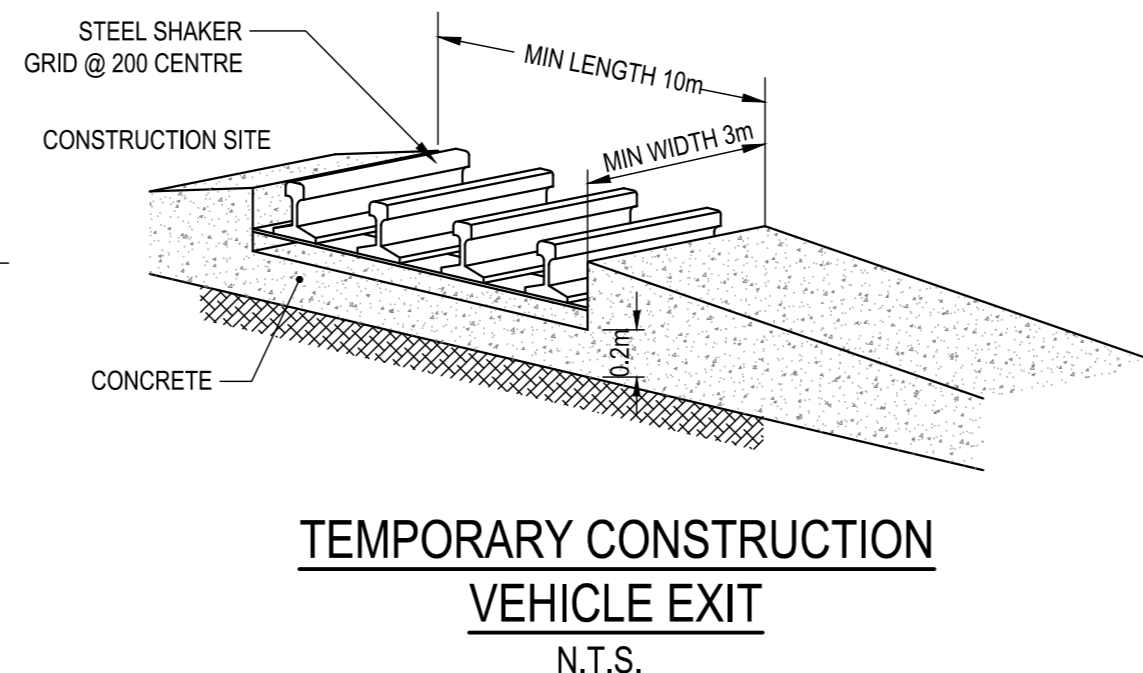
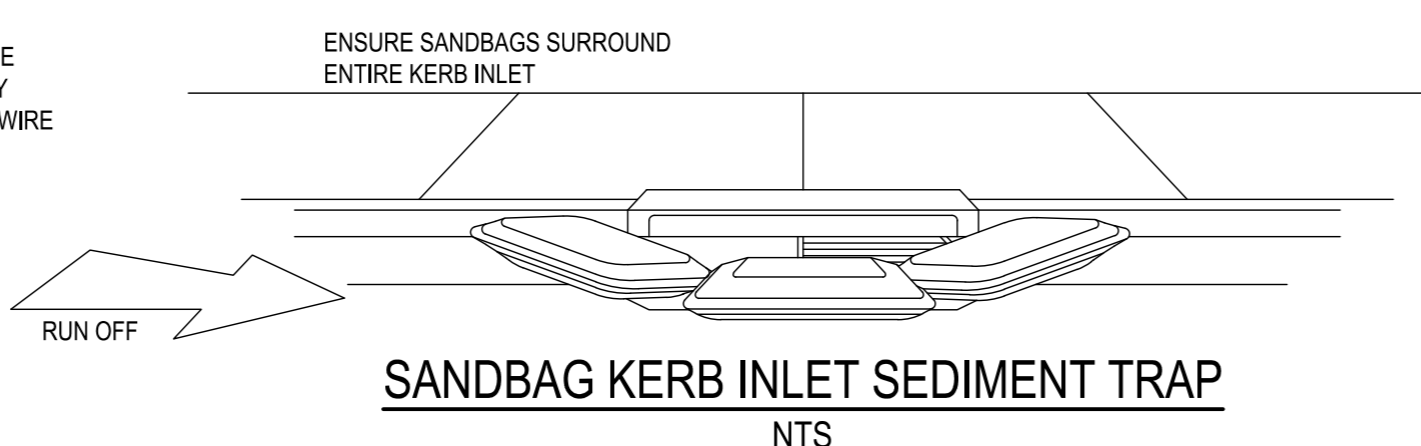
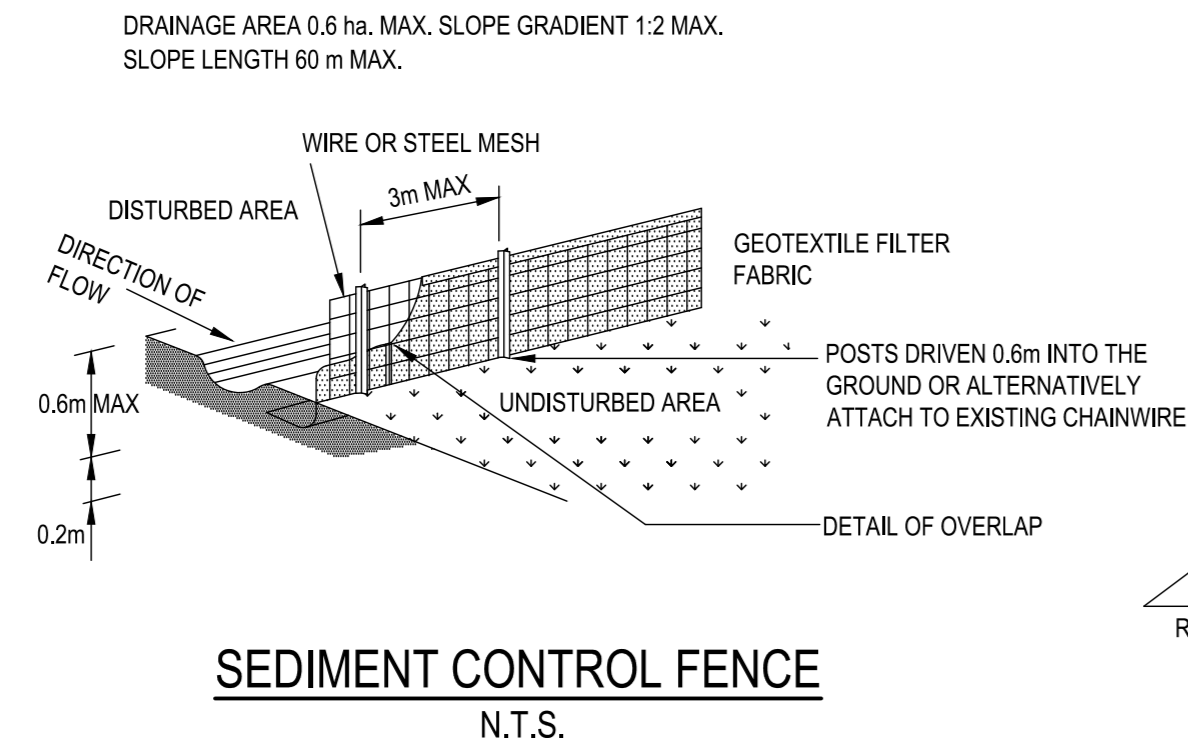
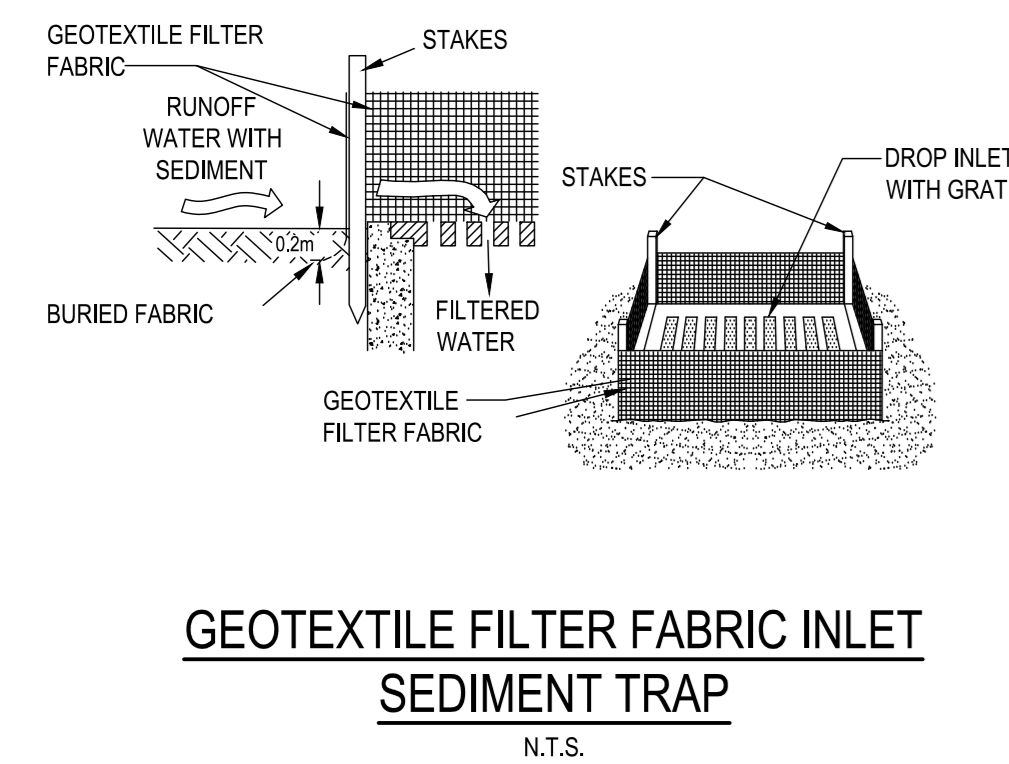
SITE AREA	
TOTAL CATCHMENT AREA (ha)	1.5
DISTURBED CATCHMENT AREA (ha)	1.5
RAINFALL DATA	
DESIGN RAINFALL DEPTH (DAYS)	5
DESIGN RAINFALL DEPTH (PERCENTILE)	85
5-DAY, 85-PERCENTILE RAINFALL EVENT	32.20
RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	8.5
RUSLE FACTORS	
RAINFALL EROSIIVITY (R-FACTOR)	1690
SOIL 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 (m ³ /ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m ³	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 EROSIIVITY (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 (m ³ /ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m ³	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 EROSIIVITY (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 (m ³ /ha/yr)	60
SEDIMENT BASIN STORAGE VOLUME, m ³	12
ANNUAL SOIL LOSS = 78 x 1.200 = 93.6 m ³ WHICH IS LESS THAN 150 m ³ . A SEDIMENT BASIN IS NOT REQUIRED AT THIS SITE.	



KEY PLAN

ISSUE	DATE	DESCRIPTION
1	31-08-2023	ISSUED FOR INFORMATION
2	15-09-2023	ISSUED FOR CC1
3	29-09-2023	ISSUED FOR CC1
A	13-10-2023	ISSUED FOR CONSTRUCTION
B	07-11-2023	ISSUED FOR CONSTRUCTION
C	16-10-2024	ISSUED FOR CONSTRUCTION

USE WRITTEN DIMENSIONS ONLY
DO NOT SCALE DIMENSIONS
CONFORM ALL DIMENSIONS DIMENSION LINES FROM TO COMMENCE ANY WORK
ALL DIMENSIONS TO FACE UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS
DIMENSIONS COLUMN: PRINT ALL DIMENSIONS IN COLUMN

CONSTRUCTION WORKS



CLIENT



Civil Engineer



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PROJECT

AIRTRUNK SYD3	
51 HUNTINGWOOD DRIVE HUNTINGWOOD NSW 2148	
DRAWN BY	SCALE
H.B.	APPROVED BY
A.W.	A.W.
DATE	JOB NUMBER
	SY212-053
FOR INFORMATION	
EROSION & SEDIMENT CONTROL DETAILS	
PROJECT NUMBER	
ATX103-GEN-010-VDM	
DRAWN: 10/05/2024	
REV: 01/15/24	