

TECHNICAL MEMO

To	Defence Housing Australia – Chris Grimm
Subject	NT Lot 4873, Town of Nightcliff 577 Lee Point Road, Lee Point NT 0810 Conservation Zone CN (Casuarina Coastal Reserve Extension) – Excavation and Filling – Development Application
From	Byrne Consultants
Byrne Reference	NT24102.05-TM-002_B
Date	25/05/2026

1 Introduction

Defence Housing Australia (DHA, the **Client**) currently owns and is subdividing NT Lot 4873, 577 Lee Point Road, Lee Point NT (the **Lot**) under Northern Territory Government (NTG) Development Permit DP18/0409E. Refer the Masterplan in Attachment A.

The development is subject to a Project Development Agreement (PDA) between DHA and NTG. The PDA sets out that a portion of the Lot, with a minimum size of 21.9ha, is to be rehabilitated to address historical erosion issues and ultimately form part of the Casuarina Coastal Reserve (CCR). This portion of the Lot is shown in Figure 1-1 below and will herein be referred to as the **Site**.

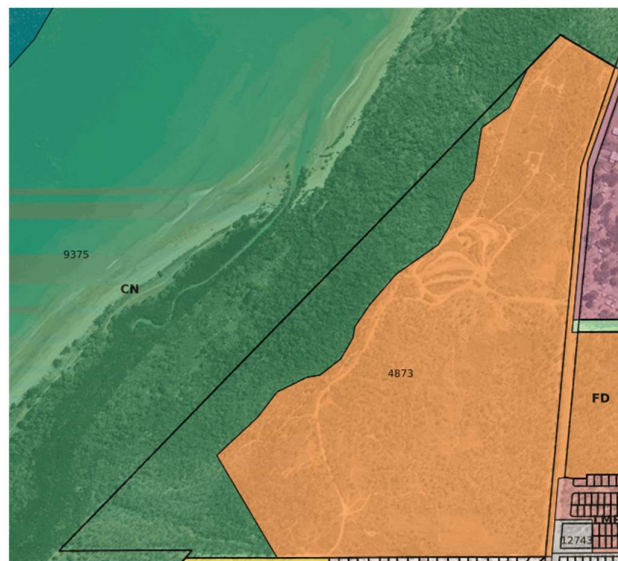


Figure 1-1 – NT Lot 4873 Conservation Zone (Source: NR Maps)

Darwin

T8, Ground Floor
 60 Winnellie Road,
 Winnellie NT 0820
 P: (08) 8947 2476

Gold Coast

Shop 6001
 19 Robina Town Centre Drive,
 Robina QLD 4226
 P: (07) 5628 2794

Sunshine Coast

30 Chancellor Village
 Boulevard,
 Sippy Downs QLD 4556
 P: (07) 5329 4507

2 The Site

The Site is Conservation Zone (CN), contains uncleared vegetation and generally slopes to the west/northwest towards Sandy Creek and Casuarina Beach. Features include an escarpment along the eastern boundary, a firebreak along the southern boundary, informal mountain bike trails and a pedestrian walkway linking with the existing CCR shared path network.

Historical erosion has occurred at the Site, consisting of major erosion gullies in the southwest, and three isolated minor areas of erosion further north along the escarpment.

Example photos of existing erosion gullies proposed for remediation are included in Figure 2-1 to Figure 2-4 below.



Figure 2-1 – Erosion Gullies Example 1



Figure 2-2 – Erosion Gullies Example 2



Figure 2-3 – Erosion Gullies Example 3



Figure 2-4 – Erosion Gullies Example 4

3 The Works

The works proposed at the Site includes earthworks to remediate existing erosion gullies and rehabilitation to restore vegetation in remediated gullies (the **Works**). Refer Supporting Drawings in Attachment B, which demonstrate the extent of existing erosion gullies and remediation to occur.

The Works are necessary to:

- Prevent further erosion of the gullies.
- Prevent siltation of the existing Conservation Zone downstream from the Site.
- Remediate historical erosion of the site.
- Remediate and re-establish native vegetation and habitat.
- Support continued community amenity and environmental protection of the conservation zone.

4 NT Planning Scheme Requirements

This technical memorandum demonstrates the NT Planning Scheme (NTPS) development requirements are being achieved for 'Clause 5.8.9 Excavation and Fill'. The excavation and fill requirement is summarised as Table 4-1.

Table 4-1 – Development Requirement - Excavation and Fill

NTPS Part	5 – Development Requirements
NTPS Clause	5.8.9 – Excavation and Fill
Purpose	Ensure that the excavation or filling of land does not adversely affect adjacent land or waters, or the quality of adjacent waterways, and associated riparian areas and is suited to the intended future use of the site.
Requirements	<ol style="list-style-type: none"> 2. Demonstrate the suitability of the site for the proposed future use. 3. Provide a hydrological assessment of potential upstream and downstream impacts of the excavation or filling. 4. Provide a plan of management to control erosion and sedimentation, particularly of creeks and riparian areas. 5. Identify measures to prevent the creation of mosquito breeding areas.

5 Clearing and Revegetation

5.1 Clearing

Clearing will be undertaken where required to facilitate access and construction to fill the existing erosion gullies, to support safe access for the remediation works. Clearing and grubbing of the relevant areas will be undertaken in accordance with NTSDG Standard Specifications. Clearing will be minimised so far as reasonably practicable, with all clearing to be rehabilitated and revegetated. Achieving a minimised clearing footprint is proposed using the following methodology:

1. Minimise extent of clearing area at the design stage using engineering judgement.
2. Locate clearing extents to maximising retention of significant trees.
3. Contractor to propose further reduction in clearing total clearing area through detailed construction methodology and localised protection and support of significant trees.

Items 1 and 2 above have been undertaken through a clearing reduction exercise between the earthworks and landscape design teams. The results of the exercise are demonstrated in Attachment C Reduced Clearing Extents, which demonstrates a reduced clearing extent with improved avoidance of significant trees.

For Item 3 above, the contractor will need to propose a gully remediation construction methodology to further reduce the clearing extent and impact on significant trees. Options to further reduce clearing via a considered construction methodology include:

- Applying an efficient excavation benching methodology to reduce clearing and excavation required for benching.
- Engagement of a geotechnical engineer to support minimising excavation and benching extents where ground conditions and safe practice allow.
- Utilising the existing gullies where suitable and safe for earthworks, construction access loops, and working platforms to avoid unnecessary clearing.
- Where clearing is needed, prioritise areas of less dense vegetation where appropriate.
- Consider areas where construction access and works can be limited to within the gullies or on one side of the gullies only.

5.2 Revegetation

Revegetation and landscaping design has been completed by Beveridge Williams (Clouston Associates) in coordination with the Byrne Consultants civil design. This includes plans to source topsoil materials locally within the Lot and revegetate the area using native species commensurate with the surrounding environment.

6 Earthworks

6.1 Earthworks Approach

The key intent for the terrain and surface to be restored is to resemble natural conditions prior to historical erosion. Existing erosion gullies will generally be filled in, shaped and rehabilitated to ensure public safety and manage stormwater flows. Gullies will be benched prior to filling, as outlined in Sections 6.2 and 6.3 below. All disturbed areas will be rehabilitated as per Section 5.2.

The Works will be documented in detailed design drawings, and a specification will be in place to control construction standards and quality assurance during the Works.

6.2 Excavation

Due to the depth and shape of the gullies, an earthworks benching design has been proposed to ensure the gullies can be filled in a safe manner and achieve appropriate compaction and integration. This involves benching the gullies down in maximum 1m height steps, in accordance with safe excavation guidelines.

6.3 Filling

Once the gullies have been benched down, they will be filled to finished surface level.

Clean fill material will be taken from the future detention basin in the 2CRU Subdivision Stage 2, with these works covered under Development Permit DP18/0049E.

Earthworks in fill will generally be undertaken in accordance with the NT Subdivision Development Guidelines Standard Specification, comprising clean "Type A – General Fill" compacted to 95% MMDD in maximum 250mm thick compacted layers.

The finished surface will be designed to tie in with the surrounding topography, including maintaining natural depressions and drainage lines where appropriate. The finished surface will be designed to be free draining, with stormwater flows managed as per Section 7.

7 Stormwater Management

7.1 Pre-development Conditions

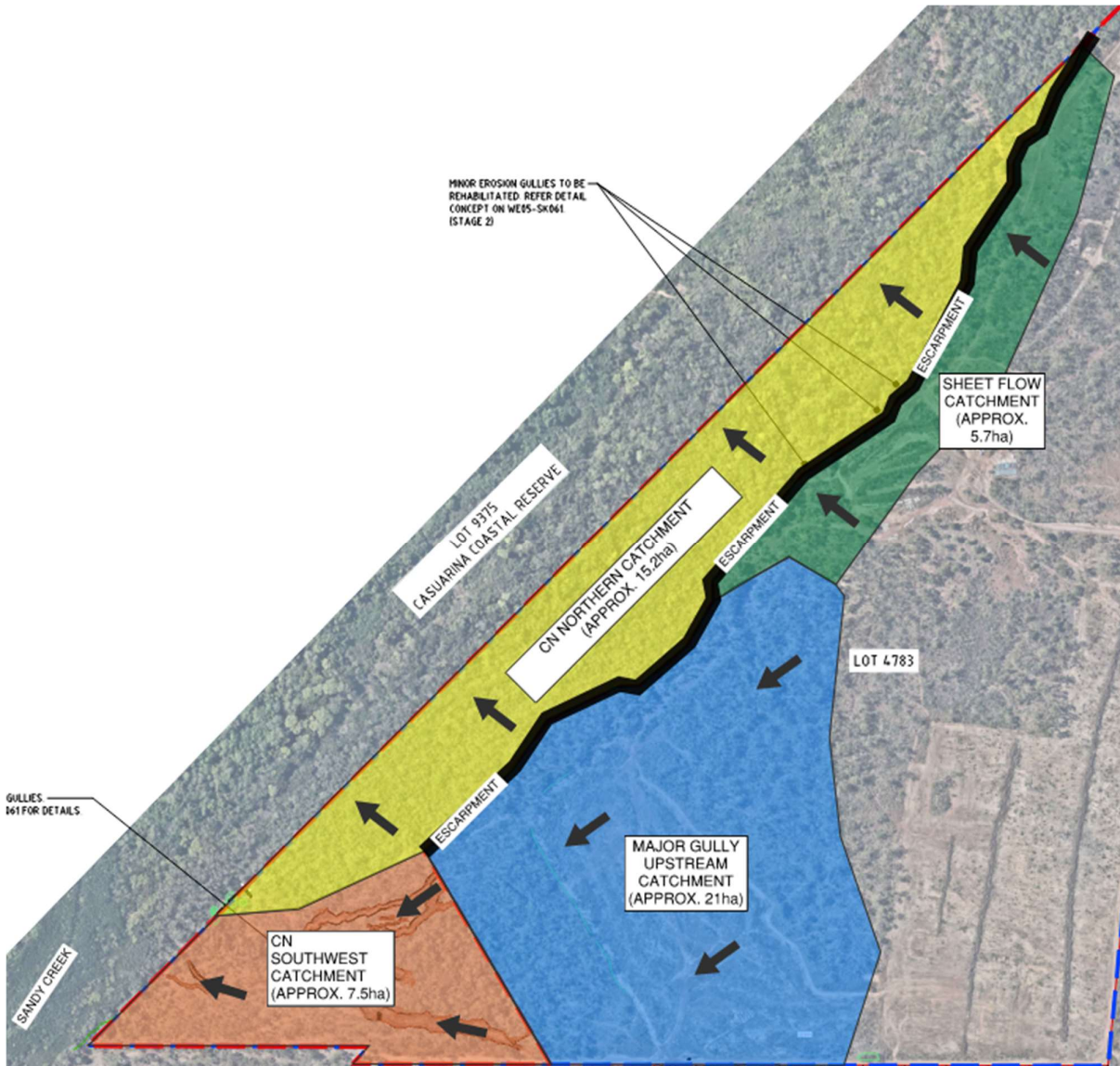


Figure 7-1 - Pre-development Catchments

Pre-development catchments are provided in Figure 7-1.

The Site generally flows from east to West towards Sandy Creek within the CCR.

The northern sections of escarpment generally drain via sheet flow conditions, whilst the southwest corner of the Site comprises natural drainage lines which have formed into major erosion gullies requiring rehabilitation.

7.2 Post-development Conditions

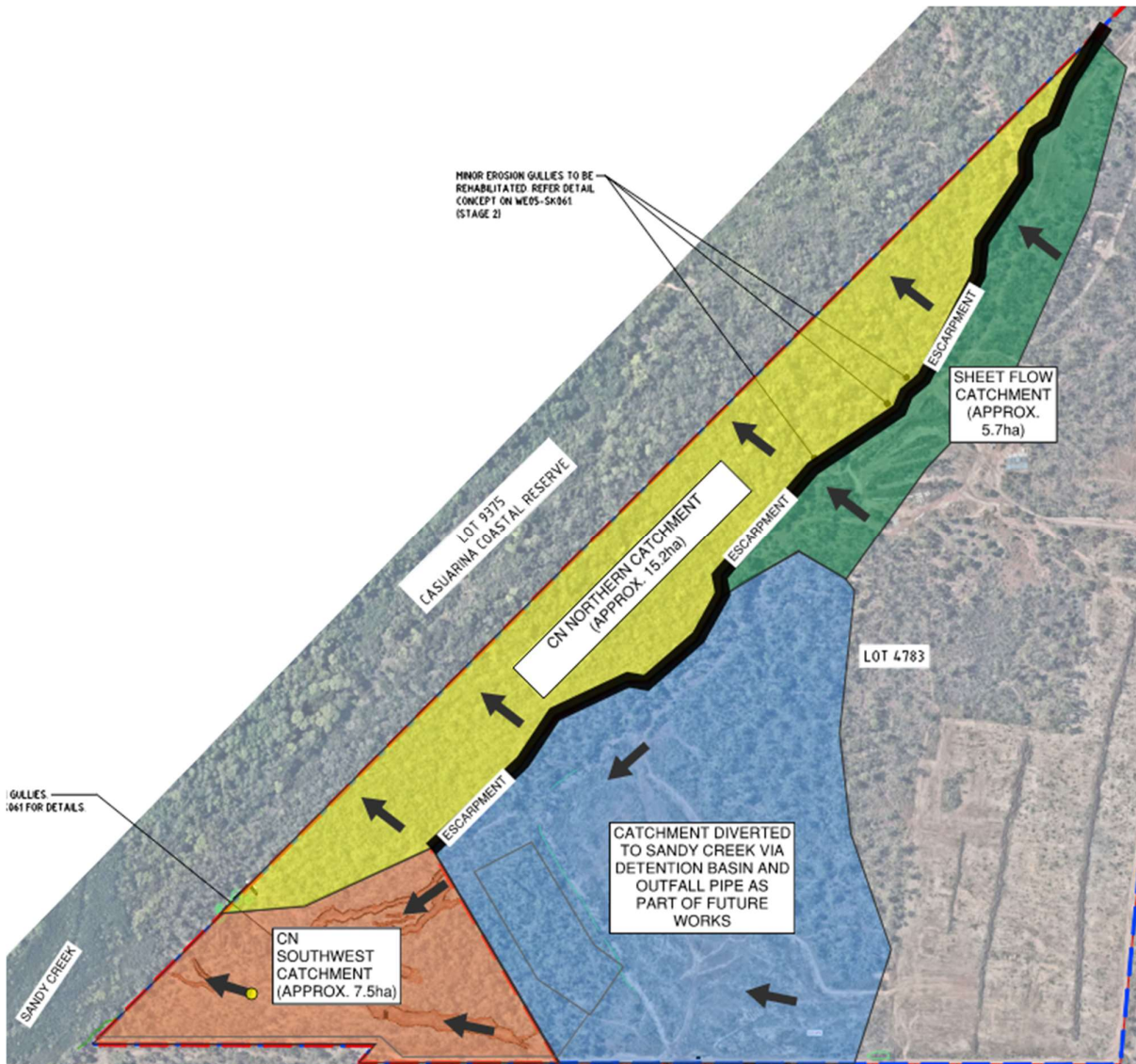


Figure 7-2 - Post-development Catchments

Post-development catchments are provided in Figure 7-2.

The future 2CRU Subdivision upstream of the Site will be designed with a detention basin to attenuate post-development peak flows to within pre-development peak flows for the subdivision.

Stormwater discharge from the detention basin will be controlled into the CCR via a stormwater outfall pipe to provide a free-draining outlet to Sandy Creek, with erosion risks mitigated and minimal ongoing maintenance.

These future works will reduce the catchment that contributes stormwater to the Site and mitigate the risk of recurring erosion issues in the areas of the major erosion gullies. Existing storm water flow volumes will be maintained into CCR and Sandy Creek.

7.3 Hydrological Upstream and Downstream Impacts

7.3.1 Upstream Impacts

The Works will have no adverse impacts on upstream catchments.

Existing hydrological flow paths will be maintained, until such time that upstream flow paths are diverted around the Site during the future 2CRU Subdivision works.

7.3.2 Downstream Impacts

The Works will have a positive impact on downstream environments, by effectively stabilising the Site and mitigating the risk of ongoing erosion.

Existing hydrological flow paths will be maintained, until such time that upstream flow paths are diverted around the Site during the future 2CRU Subdivision works. Existing storm water flow volumes will be maintained into CCR and Sandy Creek.

The Works are outside of defined flood zones and will not adversely impact riverine flooding levels.

A small amount of filling is required to rehabilitate minor gullies below Secondary Storm Surge Levels (approx. RL 6.5 m AHD at Lee Point); however, this will not adversely impact storm surge behaviour.

Erosion and Sediment Control is discussed further in Section 8.

7.4 Biting Insects

The proposed works will improve site drainage and will be designed to be free draining to prevent future water pooling. The Works, when combined with the upstream detention basin, minimises the amount of stormwater discharging to existing interdunal depressions and known mosquito breeding sites within CCR.

Medical Entomology attended several Project Control Groups and were consulted during the design process to ensure compliance with their requirements.

8 Erosion and Sediment Control

An Erosion and Sediment Control Plan (ESCP) has been prepared in accordance with IECA Best Practice Erosion and Sediment Control (BPESC) Guidelines, certified by a Certified Professional in Erosion and Sediment Control (CEPSC ID 9681). Refer Attachment D.

Works are planned to be undertaken during the dry season (May to September), when erosion risk due to rainfall will be 'Very Low' and priority will be given to management of dust and trafficking of sediments.

Following completion of work, the Site will be suitably stabilised as per Landscaping Drawings. Rock check dams will be incorporated to manage stormwater flow velocities during the establishment period.

Attachment A – Masterplan







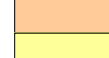

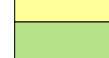

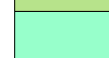



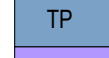

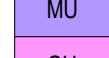



STATISTICS	STAGE 1A	STAGE 1B	STAGE 2	STAGE 3	STAGE 4	STAGE 5	TOTAL
RESIDENTIAL LOTS							
600m ² & larger	21	15	31	21	13	11	112 (23%)
540-599m ²	13	23	24	28	15	23	126 (26%)
450-539m ²	11	18	21	34	35	49	168 (34%)
360-449m ²	9	0	16	14	18	25	82 (17%)
TOTAL	54	56	92	97	81	108	488 (100%)
COMMERCIAL SUPER LOTS	0	0	0	0	14	3	17
TOTAL LOTS	54	56	92	97	95	111	505
LENGTH OF NEW							
17m ROAD (m)	380	200	390	720	540	805	3035
20m ROAD (m)	20	250	455	195	1400	380	2700
22m ROAD (m)	245	0	270	0	0	0	515
25m ROAD (m)	70	175	150	460	605	0	1460
TOTAL LENGTH (m)	715	625	1265	1375	2545	1185	7710
PARK/OPEN SPACE AREA (ha)	1.45	0	4.9	1.15	1.31	2.51	11.32
LOCAL CENTRE AREA (ha)	0	0	0	0	0.5	0	0.5
TOURISM PRECINCT AREA (ha)	0	0	0	0	2.83	0	2.83
MIXED USE RESIDENTIAL AREA (ha)	0	0	0	0	1.45	0	1.45
MEDIUM DENSITY RES. AREA (ha)	0	0	0	0	1.06	0.6	1.66
STAGE AREA (ha)	5.87	4.32	12.52	9.18	16.55	10.94	59.38
CASUARINA COASTAL RESERVE (CCR) DEDICATION (ha)							21.95
TOTAL AREA (ha)							81.33

Note: Average residential lot size is 520m²

NOTES

- (1) This plan was prepared for the purpose and exclusive use of DEFENCE HOUSING AUSTRALIA as an Investigation into the Development Potential of the land described in the plan and is not to be used for any other purpose or by any other person or corporation. JFP URBAN CONSULTANTS PTY LTD accepts no responsibility for any loss or damage suffered howsoever arising to any person or corporation who may use or rely on this plan in contravention to the terms of this clause or clauses 2, 3, 4, 5, 6 or 7 hereof.
- (2) The contours on this plan are approximate and are suitable only for the purpose of this application. The accuracy of the contours has not been verified and no reliance should be placed upon such contours for any purpose other than for the purpose of this application.
- (3) JFP takes no responsibility for any changes to the design concept that may arise as a consequence of the detailed vegetation assessment undertaken in the future. To increase certainty JFP recommends the appointment of suitable vegetation professionals to complete the vegetation assessment as soon as practical.
- (4) This plan shall be read in conjunction with the JFP preliminary planning assessment prepared in relation to the site.
- (5) The dimensions, areas, size and location of improvements, flood information (if shown) and number of lots shown on this plan are approximate only and may vary.
- (6) Information sourced from third-parties has been utilised in the preparation of this plan. JFP URBAN CONSULTANTS PTY LTD accepts no responsibility for the accuracy of the information sourced from third-parties. Furthermore it is noted that the boundaries and extents of the site have not been confirmed by survey and therefore cannot be relied upon until such survey is undertaken.
- (7) This plan may not be photocopied unless this note is included.

LEGEND

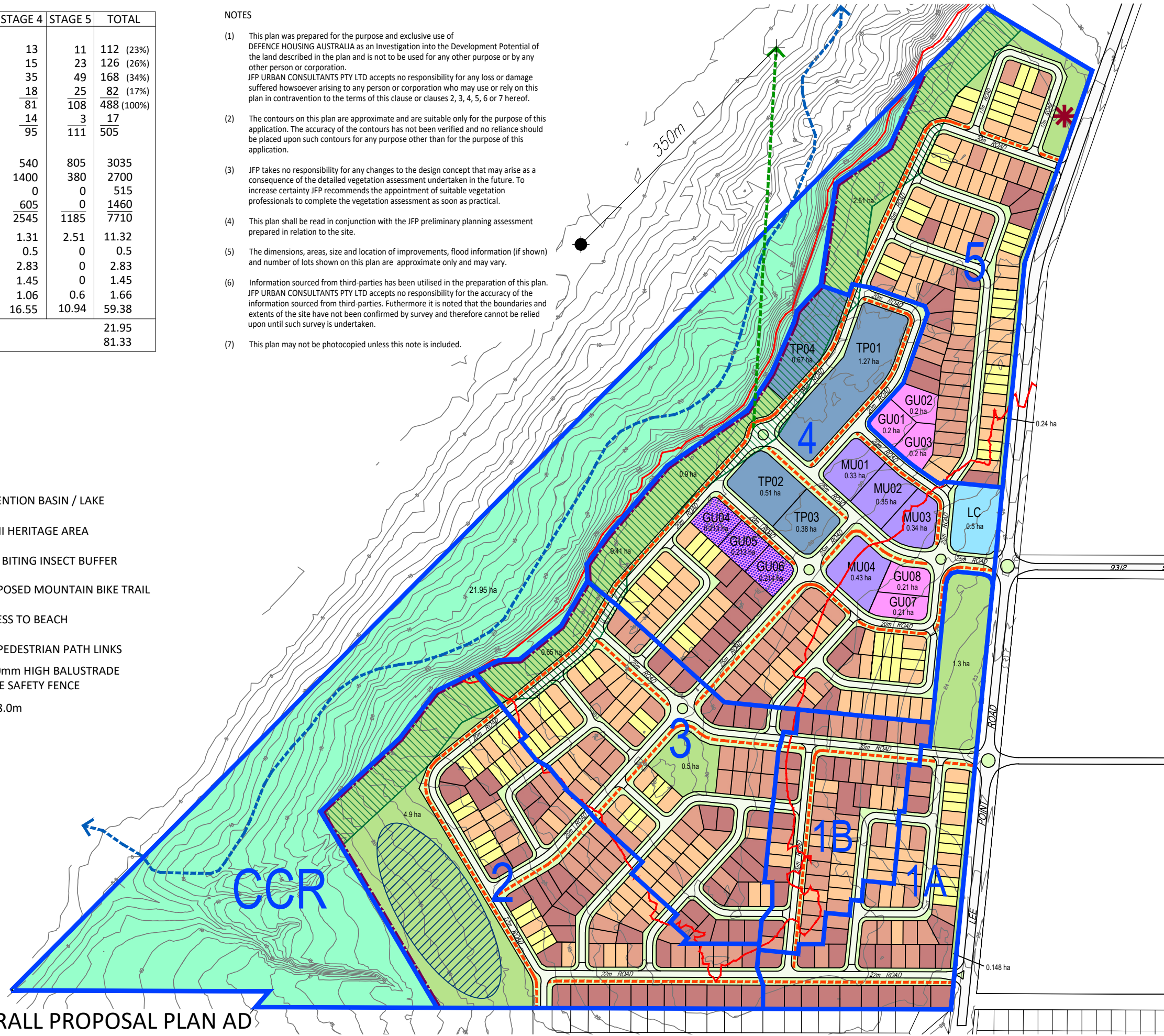
	STAGING		DETENTION BASIN / LAKE
	LOTS 600m ² & larger (20m x 30-31m)		WWII HERITAGE AREA
	LOTS 540-599m ² (18-19m x 30-31m)		50m BITING INSECT BUFFER
	LOTS 450-539m ² (15-17m x 30-31m)		PROPOSED MOUNTAIN BIKE TRAIL
	LOTS 360-449m ² (12-14m x 30-31m)		ACCESS TO BEACH
	PARK/OPEN SPACE		KEY PEDESTRIAN PATH LINKS
	CASUARINA COASTAL RESERVE (CCR)		1400mm HIGH BALUSTRADE STYLE SAFETY FENCE
	LC LOCAL CENTRE		RL 28.0m
	TP TOURISM PRECINCT (4 Lots)		
	MU MIXED USE RESIDENTIAL (4 Lots)		
	GU MEDIUM DENSITY RESIDENTIAL (8 Lots)		
	POSSIBLE RESIDENTIAL AGED CARE FACILITY		

PROPERTY DESCRIPTION
 LOT 4873 ON S78/107
 TOTAL AREA 81.33 ha



PLANNERS
 URBAN DESIGNERS
 SURVEYORS
 ENGINEERS
 LANDSCAPE ARCHITECTS

OVERALL PROPOSAL PLAN AD
 LEE POINT ROAD, LEE POINT, DARWIN
 DEFENCE HOUSING AUSTRALIA



JOB NUMBER: M2737P_Overall Proposal AD
 ISSUE: NORTH:
 SCALE: 1:5000 @ A3
 DATE: 15th April 2025

Attachment B – Supporting Drawings (NT24102-WE05-SK060 & SK061)

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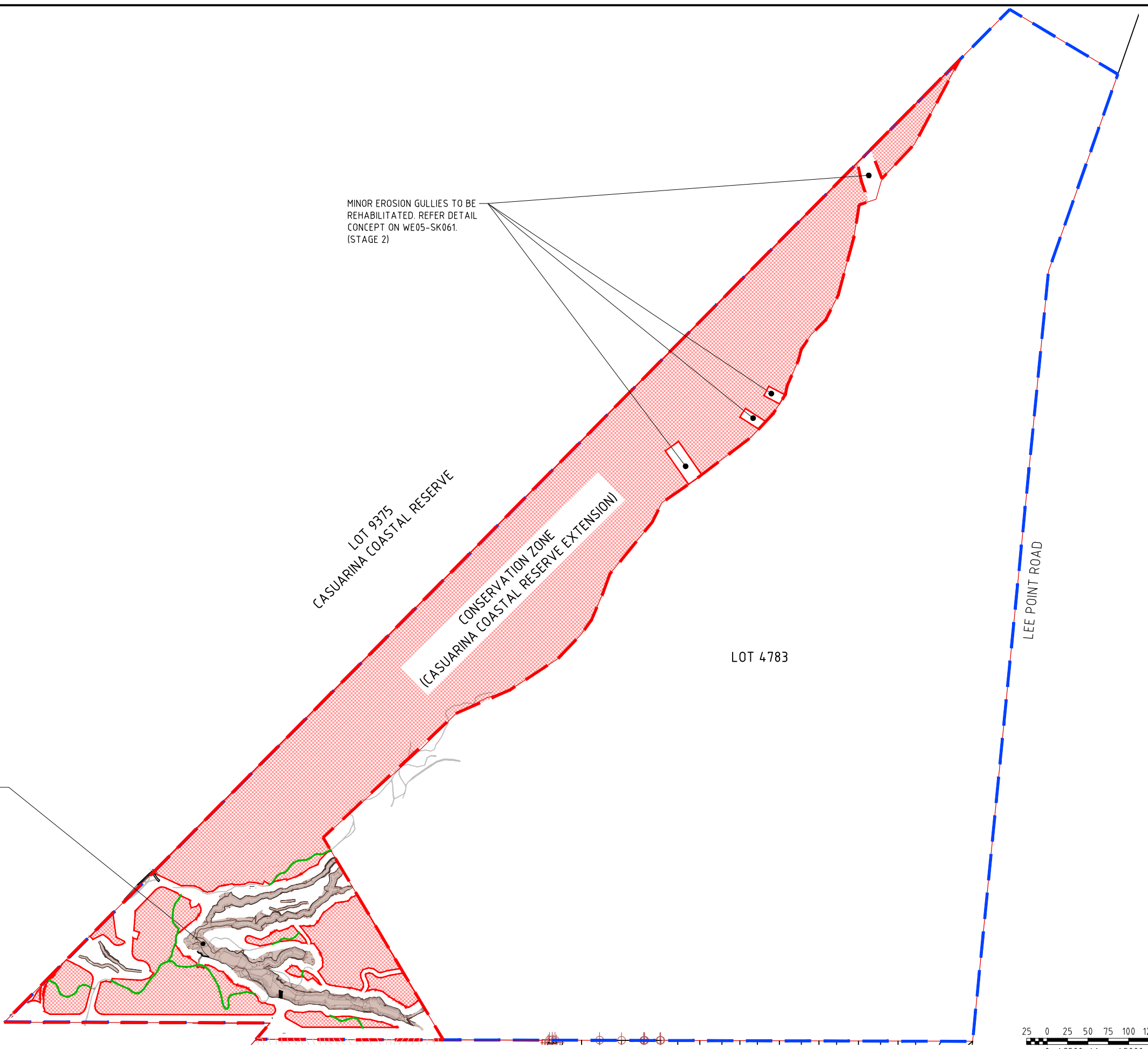


ISSUED FOR INFORMATION

- LEGEND**
- LOT 4873 BOUNDARY
 - CONSERVATION ZONE BOUNDARY
 - LIMIT OF CLEARING
 - EXISTING TRACKS TO BE CLOSED AND AREAS TO BE REHABILITATED. ALL WORK TO BE COMPLETED BY HAND AND/OR EQUIPMENT OF MAX. 1200mm WIDTH.
 - NO GO ZONE

MAJOR EROSION GULLIES.
REFER WE05-SK061 FOR DETAILS.
(STAGE 1)

MINOR EROSION GULLIES TO BE REHABILITATED. REFER DETAIL CONCEPT ON WE05-SK061. (STAGE 2)



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B	22/05/26	PD	RE-ISSUED FOR INFORMATION
A	26/03/26	PC	ISSUED FOR INFORMATION

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PB	
DRAWN	CHECKED
AD	PB
DESIGNED	CHECKED
PC	PB

TITLE 2CRU SUBDIVISION - GULLY REHAB WORKS			
NT LOT 4873, LEE POINT			
OVERALL LAYOUT			
SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-SK060	B

CONTRACTOR TO PROPOSE LOCALISED EARTHWORKS METHODOLOGY TO RETAIN PROTECTED TREES WITHIN WORKING ZONE

FUTURE STORMWATER DETENTION BASIN (SOURCE FOR GULLY FILL MATERIAL AND TOPSOIL) - WORKS COVERED UNDER SEPARATE DEVELOPMENT PERMIT

EROSION GULLIES TO BE REHABILITATED. REFER DETAIL CONCEPT (TYP)







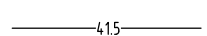







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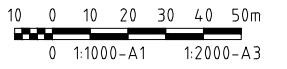
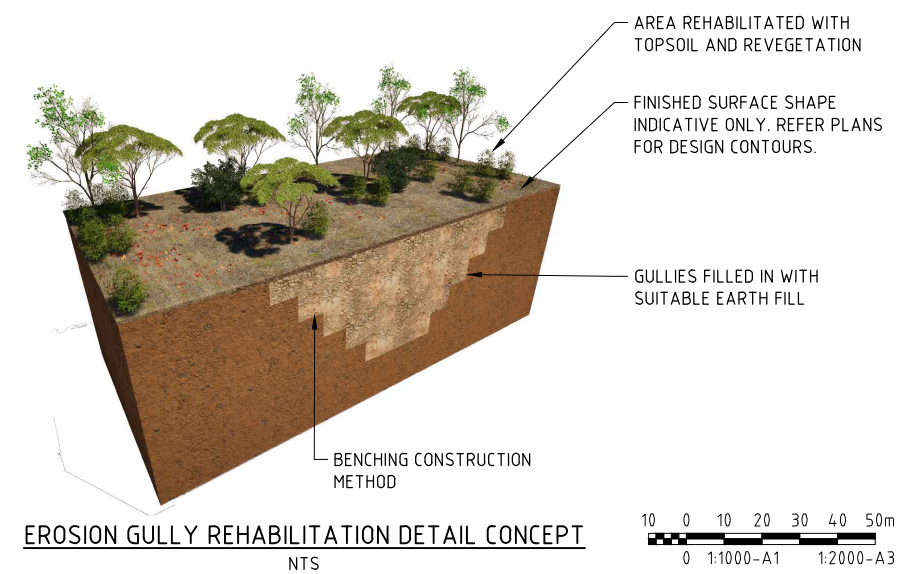
LOT 9375 CASUARINA COASTAL RESERVE

LOT 9731

SCOPE OF WORKS
SCALE 1:1000

LEGEND

-  LOT 4873 BOUNDARY
-  CONSERVATION ZONE BOUNDARY
-  LIMIT OF CLEARING
-  EXISTING TRACKS TO BE CLOSED AND AREAS TO BE REHABILITATED. ALL WORK TO BE COMPLETED BY HAND AND/OR EQUIPMENT OF MAX. 1200mm WIDTH.
-  415 EXISTING SURFACE CONTOURS (0.5m) INTERVAL
-  415 DESIGN CONTOUR (0.25m) INTERVAL
-  NO GO ZONE
-  TREES AND CYCADS TO BE RETAINED AND PROTECTED
-  TREES TO BE REMOVED WITHIN EARTHWORKS ZONE
-  TREES TO BE RETAINED AND PROTECTED WHERE WORK METHODOLOGY ALLOWS
-  CYCAD / GROUP OF CYCADS TO BE SALVAGED
-  MILKWOOD
-  CYCAD
-  WEEPING PAPERBARK
-  BROAD-LEAVED PAPERBARK



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NT LOT 4873, LEE POINT			
MAJOR EROSION GULLIES			
SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-SK061	B

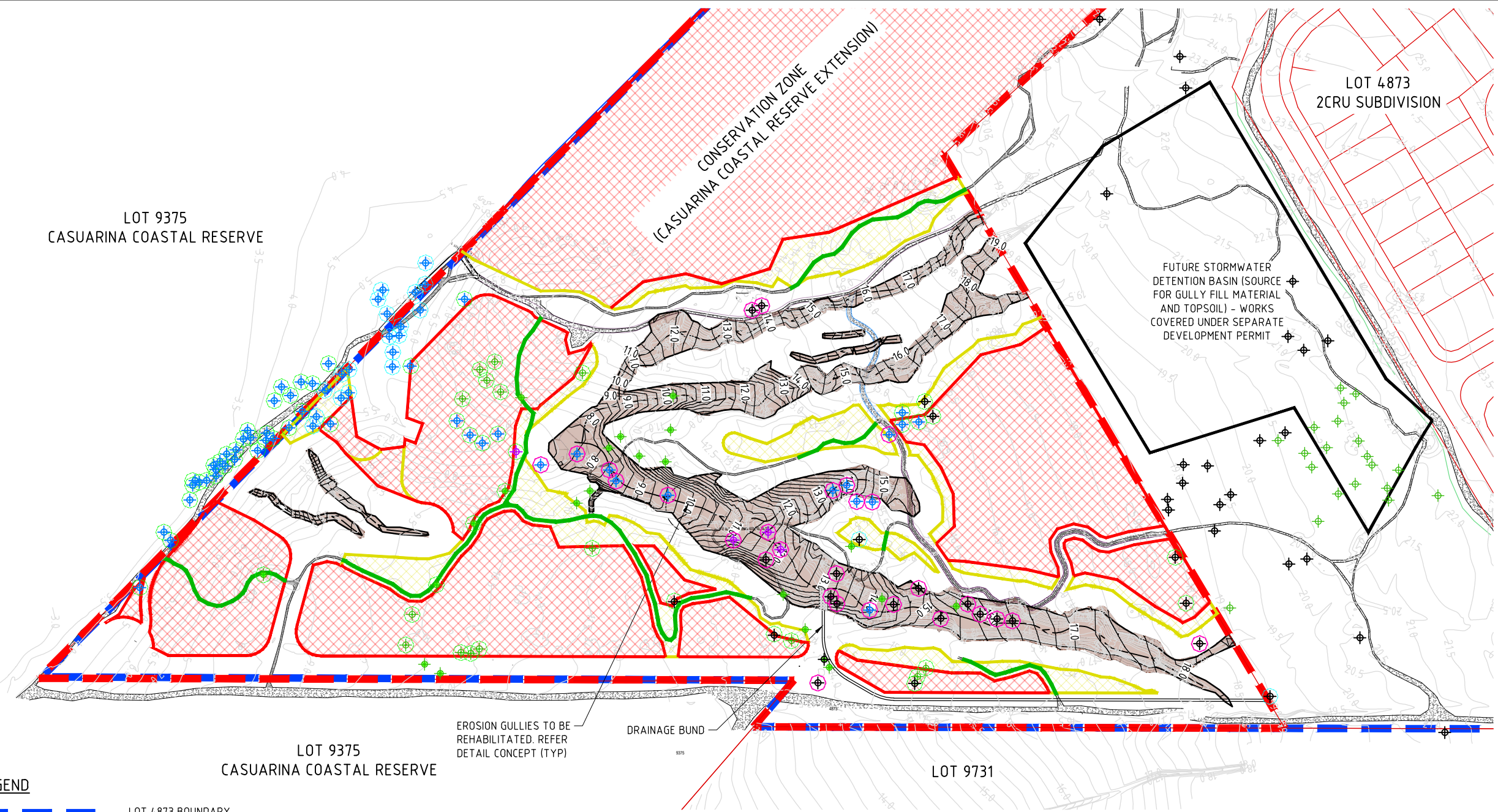
Attachment C - Reduced Clearing Exercise

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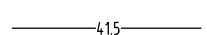











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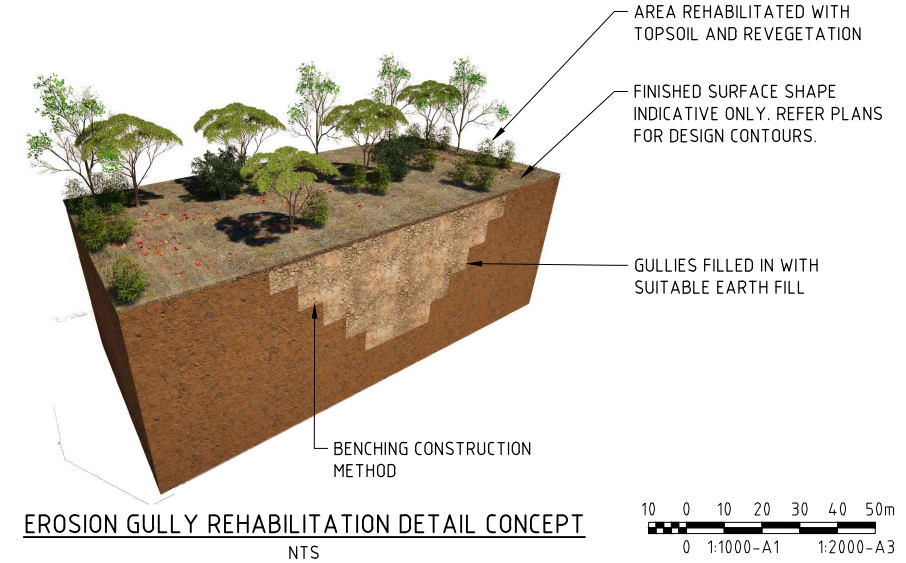
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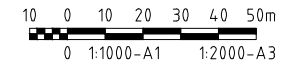
LEGEND

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-  TREES TO BE RETAINED AND PROTECTED WHERE WORK METHODOLOGY ALLOWS
-  CYCAD / GROUP OF CYCADS TO BE SALVAGED
-  MILKWOOD
-  CYCAD
-  WEEPING PAPERBARK
-  BROAD-LEAVED PAPERBARK

SCOPE OF WORKS
SCALE 1:1000



EROSION GULLY REHABILITATION DETAIL CONCEPT
NTS



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AD	PB
DESIGNED	CHECKED
PD	PB

TITLE 2CRU SUBDIVISION - GULLY REHAB WORKS			
NT LOT 4873, LEE POINT			
REDUCED CLEARING AND SIGNIFICANT TREE IMPACT			
SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-SK062	A

Attachment D – Erosion and Sediment Control Plan (NT24102-WE05-ESC500 to ESC505).

SITE MANAGEMENT

1. CONSTRUCTION ACTIVITIES SHALL BE STAGED WHERE PRACTICABLE SO THAT LAND DISTURBANCE IS CONFINED TO AREAS OF MANAGEABLE SIZE AND THE EXTENT AND DURATION OF SOIL EXPOSURE IS LIMITED. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PROGRESSIVELY IMPLEMENTED TO SUIT.
2. ALL OFFICE AND OPERATIONAL ACTIVITIES SHALL BE LOCATED SUCH THAT ALL LIQUID EFFLUENT (E.G. WASH-DOWN WATER) IS TOTALLY CONTAINED AND TREATED WITHIN THE SITE.
3. ALL LIQUIDS AND CHEMICALS SHALL BE STORED AND HANDLED ON-SITE IN ACCORDANCE WITH RELEVANT STANDARDS, INCLUDING AS1940 - THE STORAGE AND HANDLING OF FLAMMABLE AND COMBUSTIBLE LIQUIDS.
4. SITE SPOILS SHALL BE LAWFULLY DISPOSED OF IN A MANNER THAT DOES NOT RESULT IN ONGOING SOIL EROSION OR ENVIRONMENTAL HARM.
5. NO LIQUID EFFLUENT IS PERMITTED TO BE DISPOSED OF ON SITE.
6. TRACKING OF SEDIMENTS ONTO ROADS EXTERNAL OF THE SITE IS NOT PERMITTED. ENTRY/EXIT TO SITE SHALL BE RESTRICTED TO DEFINED POINTS, WITH SUPPLEMENTARY ENTRY/EXIT SEDIMENT CONTROLS INSTALLED.

CLEARING AND GRUBBING

1. CLEARING WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH APPROVALS AND PERMIT CONDITIONS.
2. MINIMISE DISTURBANCE TO ONLY THOSE AREAS REQUIRED FOR CONSTRUCTION. ALL OTHER AREAS SHALL BE FLAGGED AS "NO-GO ZONE"
3. ALL CLEARING SHALL BE CONDUCTED IN ACCORDANCE WITH FEDERAL, TERRITORY AND LOCAL GOVERNMENT ENVIRONMENTAL POLICIES.
4. BEFORE CLEARING COMMENCES, ALL SACRED SITES, RESTRICTED WORKS AREAS AND AREAS OF VEGETATION NOMINATED FOR PROTECTION SHALL BE CLEARLY IDENTIFIED AND MARKED ON SITE (BY FLAGGING OR FENCING) AND INSPECTED BY THE RELEVANT AUTHORITY. CLEARING OF VEGETATION SHALL BE RESTRICTED TO THE NOMINATED AREAS. THE CONTRACTOR SHALL TAKE ALL REASONABLE AND PRACTICABLE MEASURES TO MITIGATE RISK OF UNNECESSARY LAND CLEARING AND PREVENT REMOVAL OR DISTURBANCE OF ALL VEGETATION AND GROUND COVERS (ORGANIC OR INORGANIC) INTENDED TO BE RETAINED.
5. WHERE CLEARING IS REQUIRED FOR THE PURPOSE OF INSTALLING EROSION AND SEDIMENT CONTROL MEASURES, EXTENTS OF CLEARING SHALL BE KEPT TO A MINIMUM.
6. THE CONTRACTOR SHALL TAKE ALL PRACTICABLE AND REASONABLE MEASURES DURING CLEARING OPERATIONS TO PREVENT THE FORMATION OF FLOW PATHS THAT CAN CONCENTRATE SURFACE RUNOFF AND CREATE POTENTIAL FOR EROSION.

TOPSOIL AND STOCKPILE MANAGEMENT

1. SITE OF STOCKPILES, INCLUDING EXTENT AND LIMIT OF CLEARING, SHALL BE AGREED WITH THE RELEVANT AUTHORITY.
2. STRIPPED TOPSOIL SHALL BE STOCKPILED FOR REUSE. TOPSOIL STOCKPILE HEIGHTS SHALL BE 1.5m MAX. ALL OTHER STOCKPILE HEIGHTS SHALL BE 3.0m MAX WITH 1 IN 4 BATTERS MAX.
3. TOPSOIL STOCKPILE SHALL NOT BE COMPACTED OR WHEEL ROLLED.
4. AVOID PLACEMENT OF STOCKPILES (WHERE PRACTICABLE) WITHIN 50m OF ANY WATERWAYS.
5. THE FOLLOWING CONTROLS SHALL BE IMPLEMENTED FOR STOCKPILES OF ERODIBLE MATERIAL:
 - A. STOCKPILES SHALL BE LOCATED AT LEAST 2m FROM ANY RETAINED VEGETATION AND DRAINAGE LINES.
 - B. EARTH DIVERSION BUNDS SHALL BE INSTALLED IMMEDIATELY UP-SLOPE OF THE STOCKPILE, WHERE THE CONTRIBUTING CATCHMENT EXCEEDS 1500m² AND SHALL BE MANAGED TO AVOID CONCENTRATING FLOW CAUSING EROSION.
 - C. SEDIMENT CONTROL MEASURES SHALL BE INSTALLED DOWNSTREAM OF THE STOCKPILE (E.G. MULCH BERMS OR SEDIMENT FENCES).
 - D. TRENCH SPOIL AND BACKFILL MATERIAL SHALL GENERALLY BE STOCKPILED A MINIMUM OF 1.0m FROM OPEN TRENCHES.
6. STOCKPILE OF MATERIALS VULNERABLE TO EROSION SHALL BE COVERED IF REQUIRED.
7. SUITABLY STABILISE STOCKPILES OF ERODIBLE MATERIAL WHERE WORKS ARE EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 30 DAYS IN THE DRY SEASON, 10 DAYS IN THE WET SEASON, WHEN RAINFALL IS REASONABLY POSSIBLE.

SURFACE WATER AND DRAINAGE CONTROL

1. ALL DRAINAGE CONTROL MEASURES SHALL BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED ESCP DRAWINGS.
2. DURING THE CONSTRUCTION PHASE, ALL REASONABLE AND PRACTICABLE MEASURES SHALL BE IMPLEMENTED TO:
 - A. DIVERT CLEAN SURFACE WATERS AWAY FROM THE SITE IN A MANNER THAT MINIMISES EROSION OR CONTAMINATION OF WATER.
 - B. CONTROL FLOW VELOCITIES AND PREVENT SOIL EROSION ALONG DRAINAGE PATHS, INCLUDING ENTRY/EXIT POINTS; AND ENSURE ALL WATERS ARE DISCHARGED ONTO STABLE LAND, IN A NON-EROSIVE MANNER, AND AT A LEGAL POINT OF DISCHARGE.
 - C. MANAGEMENT OF DRAINAGE IS TO AVOID CONCENTRATION OF FLOW.
 - D. OPEN PROFILE TRAPEZOIDAL DRAINS INSTEAD OF "V" DRAINS SHALL BE USED WHERE PRACTICABLE.
3. CONTROL WATER MOVEMENT THROUGH THE WORKS AREA; FLOW DIVERSION BANKS AND DRAINS SHALL BE INSTALLED AS PER DRAWINGS.

EROSION CONTROL AND SURFACE STABILISATION

1. ALL EROSION CONTROL MEASURES SHALL BE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE APPROVED ESCP DRAWINGS.
2. SYNTHETIC EROSION CONTROL TREATMENTS SHALL NOT BE USED IF SUCH MATERIALS ARE LIKELY TO CAUSE ENVIRONMENTAL HARM.
3. SUITABLY STABILISE AREAS WHERE WORKS ARE EXPECTED TO BE SUSPENDED FOR A PERIOD EXCEEDING 30 DAYS IN THE DRY SEASON, 10 DAYS IN THE WET SEASON, WHEN RAINFALL IS REASONABLY POSSIBLE.

DUST CONTROL

1. ALL DUST CONTROL MEASURES SHALL BE APPLIED AND MAINTAINED IN ACCORDANCE WITH APPROVED ESCP DRAWINGS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE EFFECTIVE CONTROL OF ALL DUST AND WINDBORNE MATERIAL EMANATING FROM THE SITE THROUGHOUT THE CONSTRUCTION PERIOD.
3. CONTRACTOR SHALL IMPLEMENT ALL MEASURES NECESSARY TO MINIMISE WIND EROSION AND PREVENT MATERIAL FROM THE SITE BEING BLOWN OVER OR ONTO PROPERTY OUTSIDE OF THE SITE. MEASURES SHALL INCLUDE BUT NOT BE LIMITED TO:
 - A. MINIMISING TRAFFIC MOVEMENTS ON DISTURBED SURFACES AND LIMITING VEHICLE SPEEDS WHERE NECESSARY.
 - B. MAINTAINING EXPOSED SURFACES IN A MOIST CONDITION THROUGH FREQUENT WATERING, OR APPLICATION OF TRAFFICABLE POLYMERS WHERE APPROPRIATE.
 - C. PROGRAMMING WORKS TO MINIMISE THE LIFE OF SOIL STOCKPILES, OR STABILISING LONG TERM STOCKPILES.
4. DURING DRY PERIODS, UTILISE WATER TRUCK TO WATER DOWN WORKS SURFACES TO MINIMISE DUST GENERATION. DUST SUPPRESSION IS TO BE IMPLEMENTED BY SITE SUPERVISOR AS REQUIRED BY VISUAL INSPECTION.

SEDIMENT CONTROL

1. ALL SEDIMENT CONTROL MEASURES SHALL BE APPLIED AND MAINTAINED IN ACCORDANCE WITH APPROVED ESCP DRAWINGS.
2. ALL REASONABLE AND PRACTICABLE MEASURES SHALL BE TAKEN TO PREVENT, OR AT LEAST MINIMISE, THE RELEASE OF SEDIMENT FROM THE SITE. SEDIMENT CONTROL DEVICES SHALL BE INSTALLED TO TRAP SEDIMENT AS CLOSE TO THE SOURCE AS PRACTICABLE.
3. SEDIMENT CONTROL DEVICES SHALL NOT PRESENT A SAFETY HAZARD FOR SITE WORKERS AND/OR THE PUBLIC.
4. SEDIMENT CONTROLS ARE TO REMAIN IN PLACE UNTIL THE ACTIVITIES ARE FINISHED AND AREAS ARE STABILISED.
5. ALL SEDIMENT TO BE COLLECTED AND REMAIN ONSITE AND DISPOSED OFF AT A LOCATION TO BE NOMINATED BY THE RELEVANT AUTHORITY.

DEWATERING

1. CONTRACTOR SHALL MITIGATE SEDIMENT RELATED ENVIRONMENTAL HARM AND/OR IMPACT TO STORMWATER INFRASTRUCTURE RESULTING FROM DEWATERING ACTIVITIES.
2. FLOW DIVERSION BARRIERS, OR OTHER APPROPRIATE SYSTEMS, SHALL BE USED TO MINIMISE THE QUANTITY OF WATER ENTERING EXCAVATIONS.
3. SEDIMENT LADEN WATER SHALL NOT BE DISCHARGED OFF-SITE WITHOUT FIRST BEING TREATED SATISFACTORILY TO REQUIREMENTS OF THE RELEVANT AUTHORITY. WHERE NOT SPECIFIED, DISCHARGED WATER SHALL MEET THE FOLLOWING REQUIREMENTS: MAX 75 NTU, PH 6.5 TO 8.0.

REVEGETATION AND REHABILITATION

1. ALL DISTURBED AREAS AND EARTHWORKS MUST BE PROGRESSIVELY REHABILITATED ONCE WORKS ARE COMPLETED, SO FAR AS REASONABLY PRACTICABLE. REFER PROJECT CIVIL AND LANDSCAPING DRAWINGS FOR FINISHED SURFACE DETAILS.

MONITORING

1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED:
 - A. AT LEAST DAILY (WHEN WORK IS OCCURRING ON-SITE);
 - B. AT LEAST WEEKLY (WHEN WORK IS NOT OCCURRING ON-SITE);
 - C. WITHIN 24 HOURS PRIOR TO EXPECTED RAINFALL; AND
 - D. WITHIN 18 HOURS FOLLOWING A RAINFALL EVENT OF SUFFICIENT INTENSITY AND DURATION TO CAUSE RUNOFF ON-SITE.
2. EROSION AND SEDIMENT CONTROLS ARE DESIGNED IN ACCORDANCE WITH IECA BEST PRACTICE GUIDELINES, USING AN EROSION RISK ASSESSMENT TO CONFIRM THE TYPE OF CONTROLS REQUIRED AROUND EACH SUB-CATCHMENT OF THE SITE. WHERE TYPE 2/3 CONTROLS ARE APPLIED, RELEASE OF SOME TURBID WATER OFFSITE THROUGH THESE CONTROLS IS TO BE EXPECTED.
3. ANY INCIDENT WHICH RESULTS IN UNAUTHORISED DISCHARGE OF SEDIMENT OR SEDIMENT LADEN WATER TO A WATERWAY, OR HAS POTENTIAL TO RESULT IN SERIOUS ENVIRONMENTAL HARM, SHALL BE REPORTED TO THE NT ENVIRONMENT PROTECTION AUTHORITY (NTEPA) WITHIN 24 HOURS VIA THE POLLUTION HOTLINE ON 1800 064 567.

MAINTENANCE

1. ALL EROSION AND SEDIMENT CONTROL MEASURES, INCLUDING DRAINAGE CONTROL MEASURES, SHALL BE MAINTAINED IN PROPER WORKING ORDER AT ALL TIMES DURING THEIR OPERATIONAL LIVES.
2. CONTRACTOR SHALL REPAIR ANY DAMAGED EROSION AND SEDIMENT CONTROL MEASURES, AND MAKE GOOD TO THE SATISFACTION OF THE RELEVANT AUTHORITY.
3. CONTRACTOR SHALL ENSURE SEDIMENT CONTROL DEVICES ARE DE-SILTED AND MADE FULLY OPERATIONAL AS SOON AS PRACTICABLE AFTER SEDIMENT-PRODUCING EVENTS, TO ENSURE THE SEDIMENT RETENTION CAPACITY IS MAINTAINED ABOVE 80% OF ITS DESIGN RETENTION CAPACITY.
4. ALL MATERIALS, WHETHER LIQUID OR SOLID, REMOVED FROM SEDIMENT CONTROL DEVICES AND PLACES OF SEDIMENT DEPOSITION, SHALL BE DISPOSED OF IN AN APPROVED MANNER THAT DOES NOT CAUSE FURTHER SOIL EROSION OR ENVIRONMENTAL HARM. MATERIALS SHALL BE DISPOSED OF IN A LOCATION THAT PREVENTS MATERIALS RE-ENTERING THE SYSTEM.
5. ALL SEDIMENT DEPOSITED OFFSITE AS A DIRECT RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REMOVED AND THE AREA APPROPRIATELY CLEANED / REHABILITATED AS SOON AS PRACTICABLE.

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TITLE			
2CRU SUBDIVISION - GULLY REHAB WORKS NT LOT 4873, LEE POINT DRY SEASON EROSION SEDIMENT CONTROL PLAN NOTES SHEET			
SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-ESC501	0

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CATCHMENT ID	AREA (HA)	R	K	SLOPE LENGTH (m)	SLOPE (%)	LS	P	C	May (t/ha/month)	Jun (t/ha/month)	Jul (t/ha/month)	Aug (t/ha/month)	Sep (t/ha/month)	A (t/ha/yr)	A (t/yr)	CONTROL
Major Gully	1.84	15724	0.053	10	25.0	1.88	1.3	1.00	20.73	1.94	0.65	6.09	10.36	2,037	3,748	TYPE 1
Minor Gully	0.04	15724	0.053	5	16.7	0.80	1.3	1.00	8.82	0.83	0.28	2.59	4.41	867	35	TYPE 3

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EROSION RISK ASSESSMENT

DISPERSIVE SOIL MANAGEMENT

1. AS NEW WORK AREAS ARE OPENED UP, THE CONTRACTOR SHALL UNDERTAKE TESTING TO DETERMINE WHETHER THE AREA CONTAINS DISPERSIVE SOILS. IF DISPERSIVE SOIL ARE ENCOUNTERED, CONTACT THE ESCP DESIGNER FOR FURTHER ADVICE.

ERA NOTES

- ERA HAS BEEN COMPLETED BASED ON TYPICAL SITE CATCHMENTS. THE RAINFALL EROSION FACTOR (R) WAS SOURCED FROM THE NTG PUBLISHED DATA.
- K-VALUE WAS IDENTIFIED WITH REFERENCE TO THE GEOTECHNICAL REPORT (STANTEC - DC1603) LEE POINT STAGE 2 SUBDIVISION_FINAL GI REPORT) FOR THE SITE. SILTY SANDY GRAVEL (GW) AND SANDY GRAVEL (GP) WERE IDENTIFIED IN TEST PITS.
- LS FACTORS WERE DERIVED BASED ON WORST CASE GULLY EROSION / BATTER SLOPES.
- THE EROSION RISK ASSESSMENT IDENTIFIES THAT TYPE 1 CONTROLS ARE REQUIRED (E.G. SEDIMENT BASINS) FOR THE MAJOR GULLIES DURING MAY AND SEPTEMBER. TYPE D SEDIMENT BASIN ARE PROPOSED THROUGH APPLICATION OF TEMPORARY EARTH BUNDS TO CONTAIN DIRTY WATER WITHIN WORKSITE. CONTRACTOR TO ENSURE MINIMUM VOLUMES ARE ACHIEVED AS SHOWN IN THE TABLE BELOW.

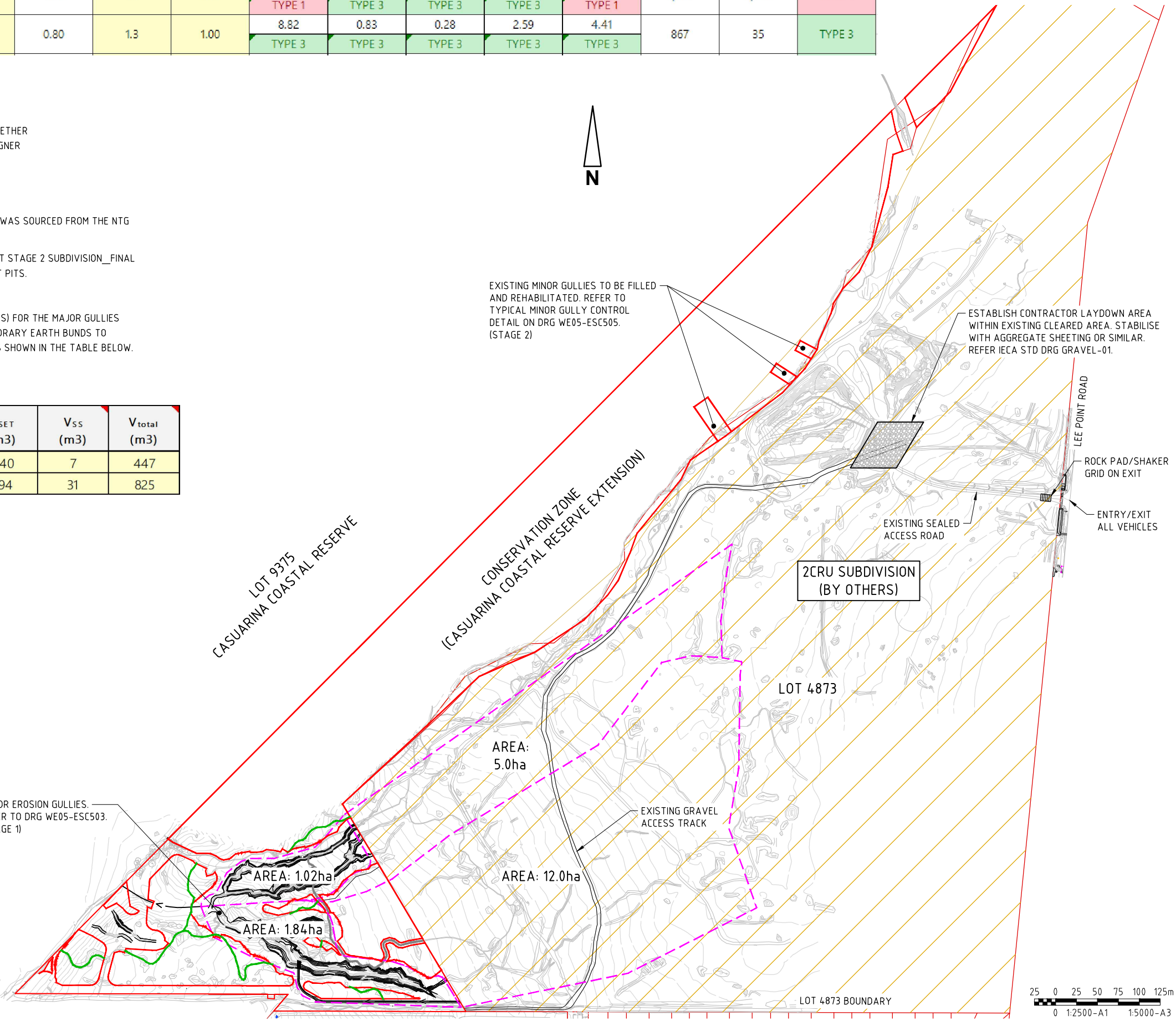
TABLE - SEDIMENT BASIN VOLUMES

BASIN ID	CATCH AREA (HA)	% ILE	R (5 DAY, X% ILE) (mm)	CV	V _{SET} (m ³)	V _{SS} (m ³)	V _{total} (m ³)
Major Gullies - Northern	1.02	85	58	0.74	440	7	447
Major Gullies - Southern	1.84	85	58	0.74	794	31	825

MAJOR EROSION GULLIES. REFER TO DRG WE05-ESC503. (STAGE 1)

EXISTING MINOR GULLIES TO BE FILLED AND REHABILITATED. REFER TO TYPICAL MINOR GULLY CONTROL DETAIL ON DRG WE05-ESC505. (STAGE 2)

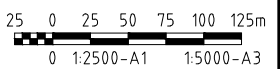
ESTABLISH CONTRACTOR LAYDOWN AREA WITHIN EXISTING CLEARED AREA. STABILISE WITH AGGREGATE SHEETING OR SIMILAR. REFER IECA STD DRG GRAVEL-01.



WARNING

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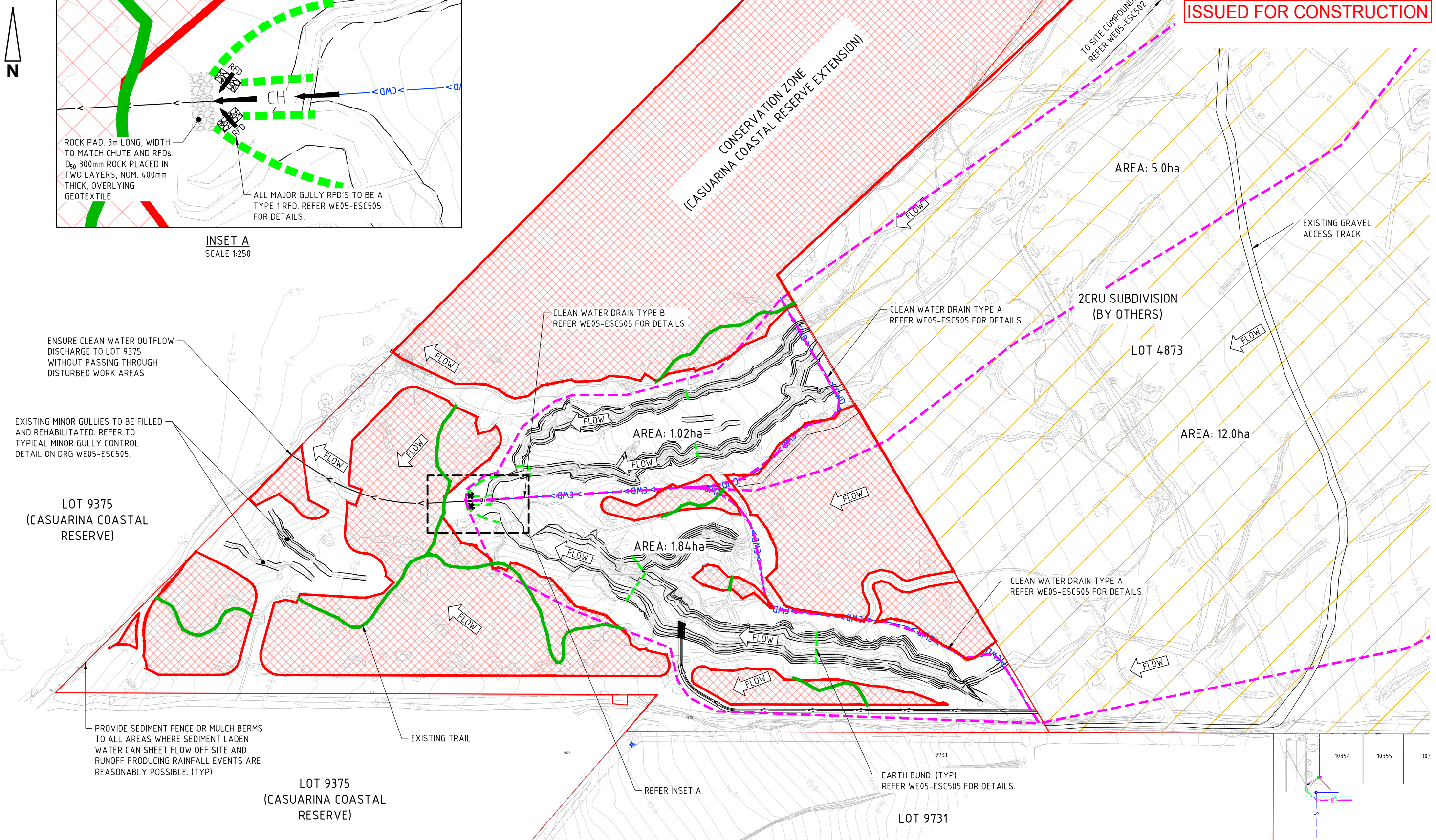
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DESIGNED	CHECKED
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TITLE
2CRU SUBDIVISION - GULLY REHAB WORKS
NT LOT 4873, LEE POINT
DRY SEASON EROSION SEDIMENT CONTROL PLAN
EROSION RISK ASSESSMENT AND GA PLAN

SCALE: AS SHOWN PROJECT No: **NT24102** DRAWING No: **WE05-ESC502** AMDT: **0**

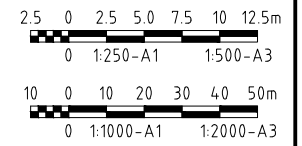
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INSET A
SCALE 1:250

PLAN
SCALE 1:1000



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TITLE			
2CRU SUBDIVISION - GULLY REHAB WORKS			
NT LOT 4873, LEE POINT			
DRY SEASON EROSION SEDIMENT CONTROL PLAN			
SITE ESTABLISHMENT AND CLEARING PLAN			
SCALE	PROJECT No	DRAWING No	AMDT
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CONSERVATION ZONE
(CASUARINA COASTAL RESERVE EXTENSION)

INSTALL RCD'S IN REHABILITATED
GULLY'S TO CONTROL VELOCITIES
DURING ESTABLISHMENT PERIOD.
NOM. 1m HIGH AT 25m SPACINGS
(TYP). REFER IECA STD DRG
RCD-01 FOR DETAILS.

2CRU SUBDIVISION
(BY OTHERS)

LOT 4873

LOT 9375
(CASUARINA COASTAL
RESERVE)

LOT 9375
(CASUARINA COASTAL
RESERVE)

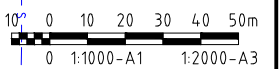
REVEGETATION AS PER
LANDSCAPING DRGS

LOT 9731

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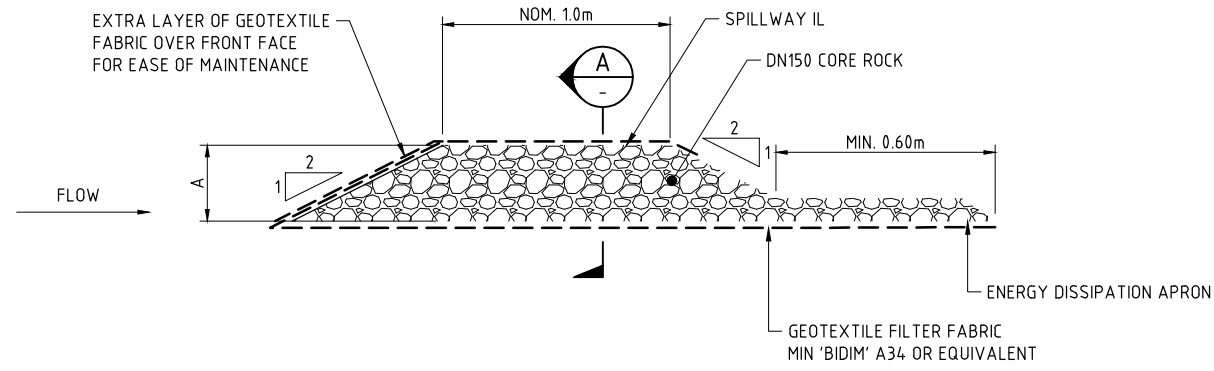
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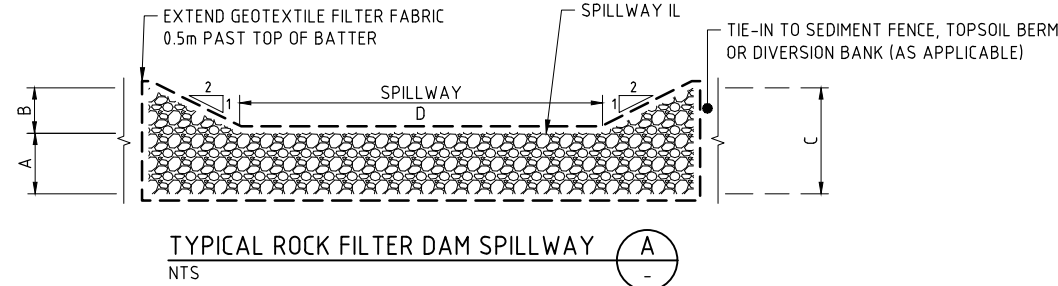

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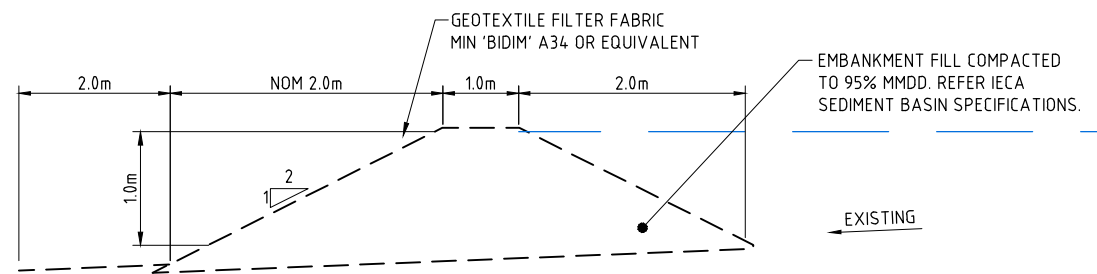
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SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-ESC504	1



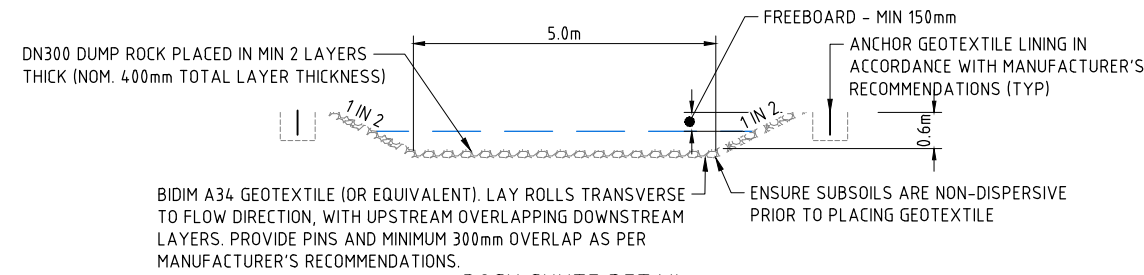
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2	0.3	0.2	0.5	1



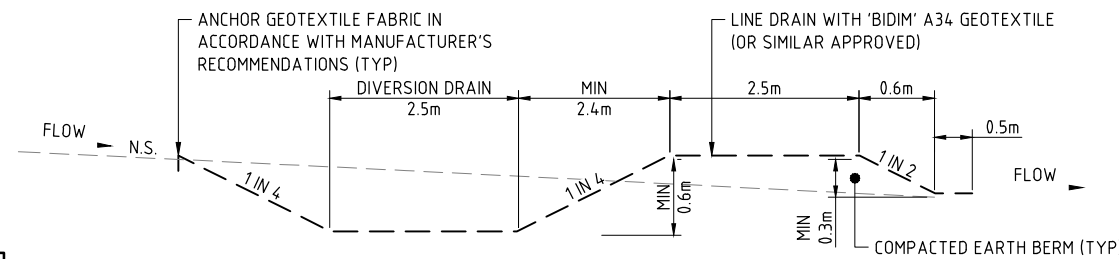
TYPICAL ROCK FILTER DAM SPILLWAY (A) NTS



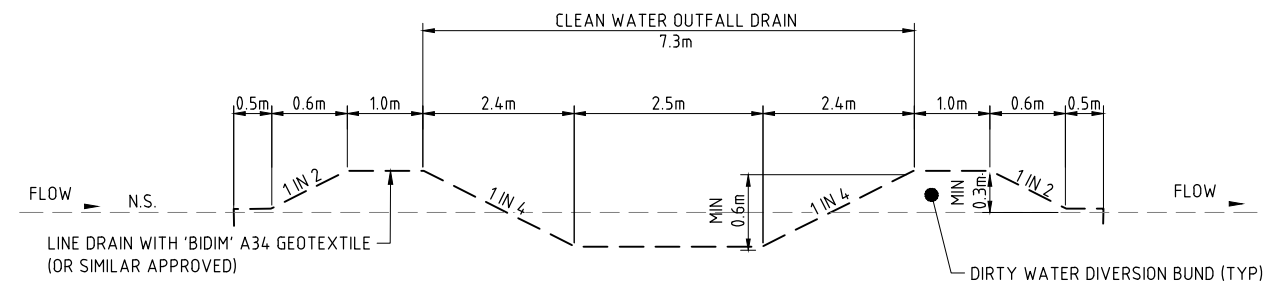
EARTH BUND DETAIL NTS



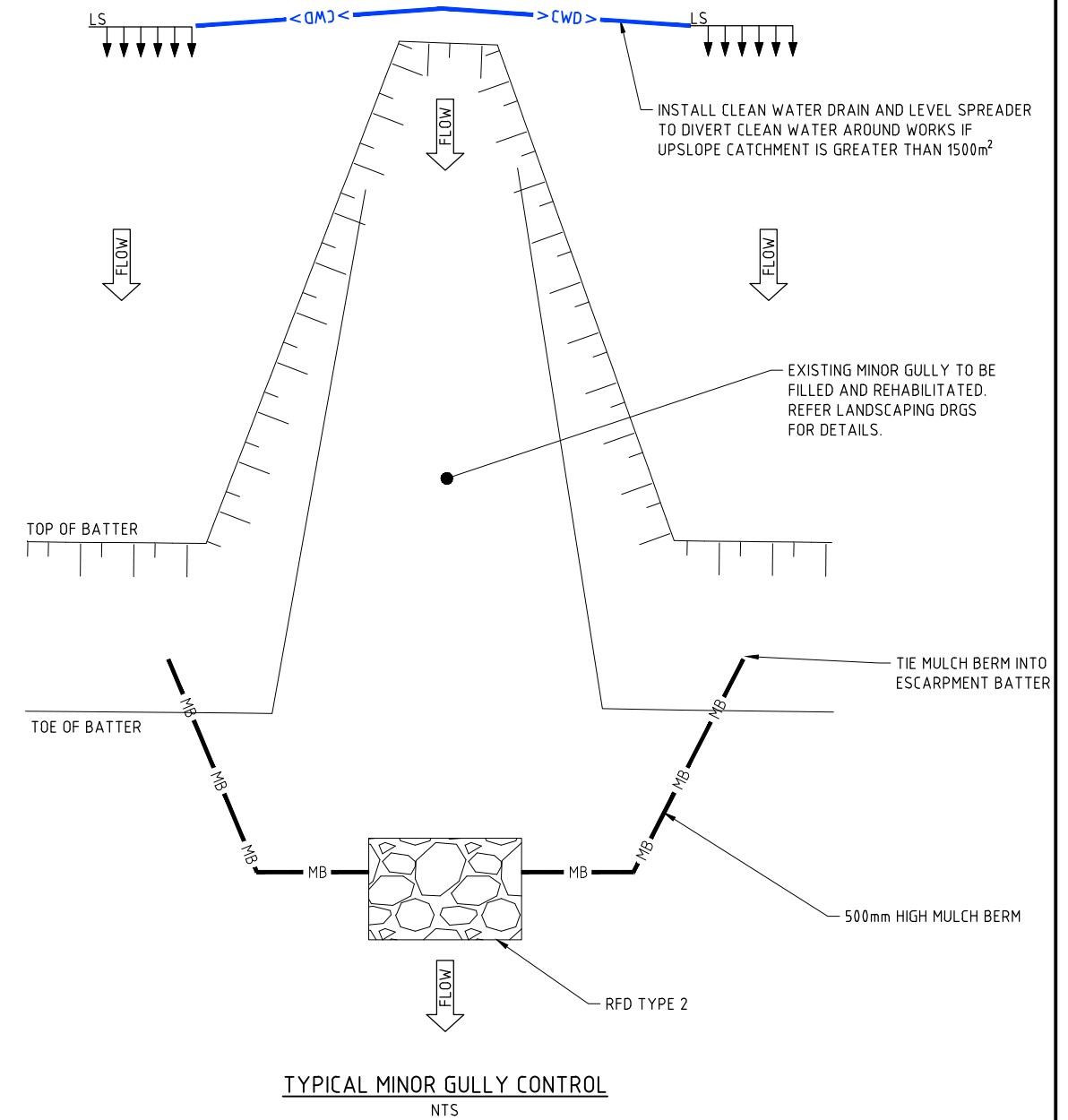
ROCK CHUTE DETAIL NOT TO SCALE



TYPE A CLEAN WATER DRAIN DETAIL NOT TO SCALE



TYPE B CLEAN WATER DRAIN DETAIL NOT TO SCALE



TYPICAL MINOR GULLY CONTROL NTS

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2CRU SUBDIVISION - GULLY REHAB WORKS NT LOT 4873, LEE POINT DRY SEASON EROSION SEDIMENT CONTROL PLAN TYPICAL SECTION AND DETAILS			
SCALE	PROJECT No	DRAWING No	AMDT
AS SHOWN	NT24102	WE05-ESC505	0