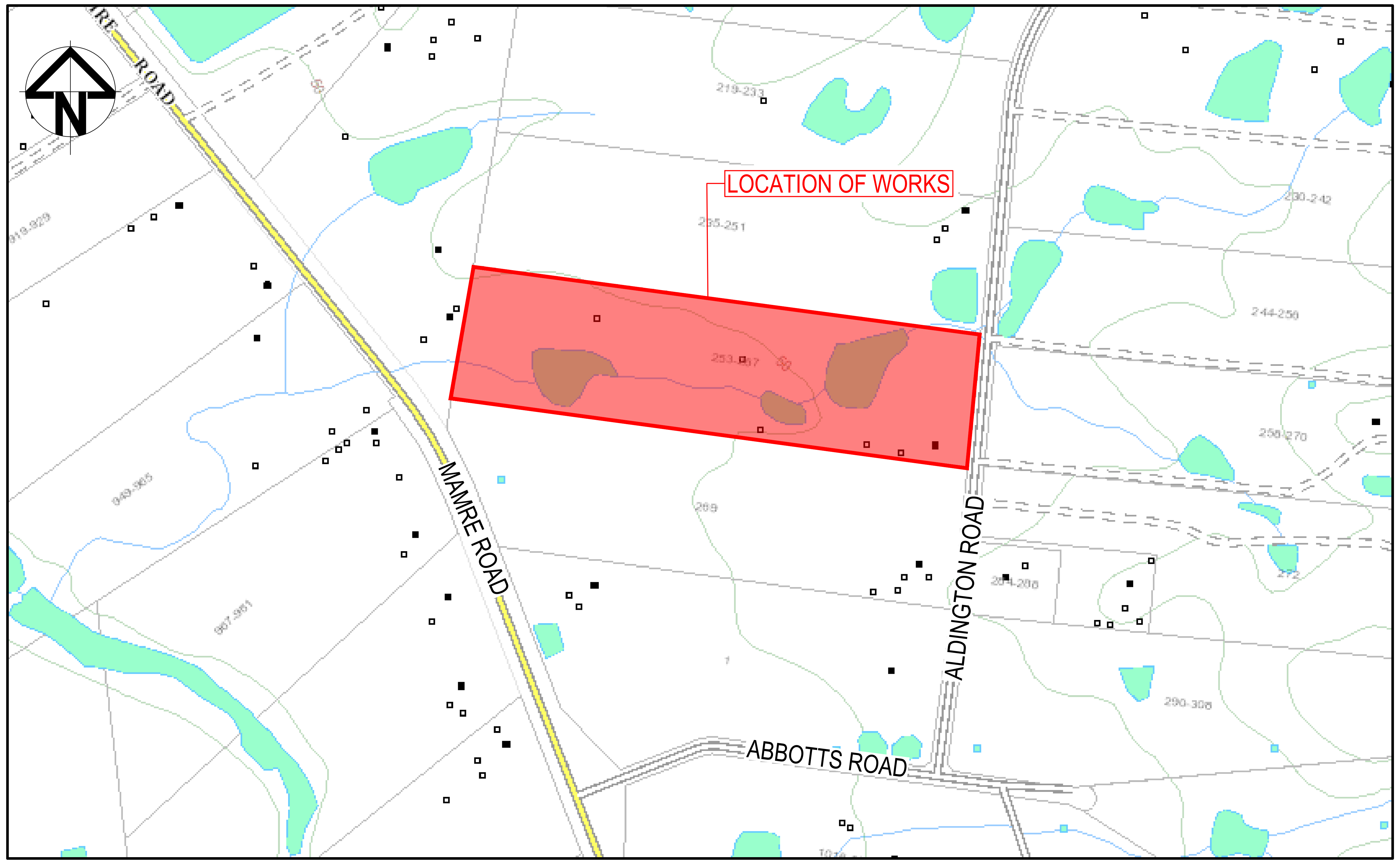
253-267 ALDINGTON ROAD, KEMPS CREEK

EROSION AND SEDIMENT CONTROL PLAN

SSD-23480429

THESE DRAWINGS MUST READ IN
CONJUNCTION WITH ITT, THE RELEVANT
SYDNEY WATER, COUNCIL CONSTRUCTION
SPECIFICATIONS, AUSTRALIAN STANDARDS
AND AUTHORITY GUIDELINES.



LOCALITY PLAN
NOT TO SCALE

NOTE:
1. THIS PACKAGE TO BE READ IN CONJUNCTION WITH THE FOLLOWING DRAWING PACKAGES.
   - 10000 SERIES - INFRASTRUCTURE
   - 20000 SERIES - TRUNK DRAINAGE

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

100mm on Original

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client
ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
COVER SHEET

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Status
FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C3000

Issue
01

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DRAWING LIST

DRAWING No.	DRAWING TITLE
GENERAL	
21-860-C3000	COVER SHEET
21-860-C3001	DRAWING LIST AND LEGENDS
21-860-C3002	GENERAL NOTES SHEET 1
21-860-C3003	GENERAL NOTES SHEET 2
21-860-C3004	GENERAL NOTES SHEET 3
21-860-C3005	GENERAL NOTES SHEET 4
21-860-C3006	GENERAL NOTES SHEET 5
21-860-C3007	GENERAL NOTES SHEET 6
21-860-C3008	GENERAL NOTES SHEET 7
21-860-C3009	GENERAL NOTES SHEET 8
21-860-C3010	GENERAL NOTES SHEET 9
21-860-C3011	GENERAL NOTES SHEET 10
21-860-C3012	GENERAL NOTES SHEET 11
EROSION AND SEDIMENT CONTROL PLANS	
21-860-C3020	PERMANENT ARRANGEMENT EROSION AND SEDIMENT CONTROL PLAN SHEET 1
21-860-C3021	PERMANENT ARRANGEMENT EROSION AND SEDIMENT CONTROL PLAN SHEET 2
EROSION AND SEDIMENT CONTROL BASINS	
21-860-C3030	EROSION AND SEDIMENT BASIN DETAILS BASIN SB1
21-860-C3031	EROSION AND SEDIMENT BASIN DETAILS BASIN SB2
21-860-C3032	EROSION AND SEDIMENT BASIN DETAILS BASIN SB3
EROSION AND SEDIMENT CONTROL STAGING	
21-860-C3040	CONSTRUCTION STAGING PLAN PHASE 1
21-860-C3041	CONSTRUCTION STAGING PLAN PHASE 2
21-860-C3042	CONSTRUCTION STAGING PLAN PHASE 3
EROSION AND SEDIMENT CONTROL DETAILS	
21-860-C3050	EROSION AND SEDIMENT CONTROL DETAILS SHEET 1
21-860-C3051	SEDIMENT BASIN VOLUME CALCULATIONS
21-860-C3060	CATCHMENT PLAN

SEDIMENT AND EROSION CONTROL LEGEND

	SEDIMENT FENCE (SD 6-8)
	SEDIMENT FENCE ON PAD (SD 6-8)
B	BARRIER FENCE
	EARTH BANK (LOW FLOW) (SD 5-5)
	CLEAN WATER DIVERSION SWALE
	CATCH DRAIN (REFER TO DRG. No. C10051 FOR DETAILS)
	RECP : CONCENTRATED FLOW (SD 5-7)
	STRAW BALE FILTER (SD 6-7)
	MESH AND GRAVEL INLET FILTER (SD 6-11)
	ROCK RIFFLE CHECK DAM (SD 5-4)
☒	GEOTEXTILE INLET (SD 6-12)
▤	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
	PROPOSED SITE ACCESS GATE
	PIPE CROSSING uPVC PIPE LAID AT MIN. 1% FALL

NOTE:
- ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

SITEWORKS LEGEND

	EXISTING BOUNDARY
	EXISTING EASEMENT
	PROPOSED BOUNDARY
RW01	PROPOSED RETAINING WALL AND NUMBER
48.00	PROPOSED CONTOUR
	PROPOSED BATTER SLOPE
K&G	PROPOSED KERB AND GUTTER
VC	PROPOSED DRIVEWAY LAYBACK
PR	PROPOSED KERB RAMP
	PROPOSED TRI-BEAM GUARDRAIL
L.O.W	LIMIT OF WORKS
	PROPOSED CATCH DRAIN
FP	PROPOSED SUBSOIL (100mm Ø) WITH FLUSHING POINT
☒	PROPOSED STORMWATER JUNCTION PIT
▤	PROPOSED STORMWATER JUNCTION PIT
	PROPOSED STORMWATER KERB INLET PIT WITH LINTEL
	PROPOSED STORMWATER PIPE WITH HEADWALL
	PROPOSED CAPPED STORMWATER PIPE
A-1	PROPOSED STORMWATER PIT LABEL
Ø375	PROPOSED STORMWATER PIPE, DIRECTION AND SIZE
S S	PROPOSED SEWER PIPE AND MANHOLE
	PROPOSED STREET LIGHTING
	500mm WIDE CONCRETE BARRIER
	TEMPORARY WATER FILLED BARRIER OR APPROVED EQUIVALENT

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Height Datum AHD
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Drawn ASD
Designed TM
Checked MM
Approved

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

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DRAWING LIST
AND LEGENDS

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Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3001
Issue 01

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Xref \ \Xref\Drawing Sheets\X 21-860-A1-DS-DRAWING SHEET-KEY PLAN.dwg

SITEWORKS NOTES

1. ORIGIN OF LEVELS:- REFER SURVEY NOTES.
2. CONTRACTOR MUST VERIFY ALL DIMENSIONS AND EXISTING LEVELS ON SITE PRIOR TO COMMENCEMENT OF WORK. ANY DISCREPANCIES TO BE REPORTED TO AT & L.
3. ALL EARTHWORKS TO BE UNDERTAKEN IN ACCORDANCE WITH PSM "BULK EARTHWORKS SPECIFICATION, FILLING, CUTTING AND TESTING (WITH BLENDED TOPSOIL)" REPORT PSM5686-003S DATED 20 FEBRUARY 2025.
4. MAKE SMOOTH CONNECTION WITH EXISTING WORKS.
5. ALL TRENCH BACKFILL MATERIAL SHALL BE COMPACTED TO THE SAME DENSITY AS THE ADJACENT MATERIAL.
6. ALL SERVICE TRENCHES UNDER VEHICULAR PAVEMENTS SHALL BE BACKFILLED WITH SAND TO 300mm ABOVE PIPE. WHERE PIPE IS UNDER PAVEMENTS BACKFILL, REMAINDER OF TRENCH TO UNDERSIDE OF PAVEMENT WITH SAND OR APPROVED GRANULAR MATERIAL COMPACTED IN 150mm LAYERS TO MINIMUM 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289 5.2.1. (OR A DENSITY INDEX OF NOT LESS THAN 75)
7. PROVIDE 10mm WIDE EXPANSION JOINTS BETWEEN BUILDINGS AND ALL CONCRETE OR UNIT PAVEMENTS.
8. ASPHALTIC CONCRETE SHALL CONFORM TO R.M.S SPECIFICATION R116.
9. ALL BASECOURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051 (UNBOUND), R.M.S FORM 3052 (BOUND) COMPACTED TO MINIMUM 98% MODIFIED DENSITY IN ACCORDANCE WITH AS 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m³ OF BASECOURSE MATERIAL PLACED.
10. ALL SUB-BASE COURSE MATERIAL SHALL BE IGNEOUS ROCK QUARRIED MATERIAL TO COMPLY WITH R.M.S FORM 3051, 3051.1 AND COMPACTED TO MINIMUM 95% MODIFIED DENSITY IN ACCORDANCE WITH A.S 1289 5.2.1 FREQUENCY OF COMPACTION TESTING SHALL NOT BE LESS THAN 1 TEST PER 50m^3 OF SUB-BASE COURSE MATERIAL PLACED.
11. AS AN ALTERNATIVE TO THE USE OF IGNEOUS ROCK AS A SUB-BASE MATERIAL IN (9) A CERTIFIED RECYCLED CONCRETE MATERIAL COMPLYING WITH R.M.S FORM 3051 AND 3051.1 WILL BE CONSIDERED. SUBJECT TO MATERIAL SAMPLES AND APPROPRIATE CERTIFICATIONS BEING PROVIDED TO THE SATISFACTION OF AT & L AND PENRITH CITY COUNCIL.
12. SHOULD THE CONTRACTOR WISH TO USE A RECYCLED PRODUCT THE CONTRACTOR IS TO SEEK ACCEPTANCE OF THE PRODUCT FROM AT&L AND PENRITH CITY COUNCIL. THE PRICE DIFFERENCE BETWEEN AN IGNEOUS PRODUCT AND A RECYCLED PRODUCT SHALL BE CLEARLY INDICATED.
13. WHERE NOTED ON THE DRAWINGS THAT WORKS ARE TO BE CARRIED BY OTHERS, (eg. ADJUSTMENT OF SERVICES), THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF THESE WORKS.
14. ALL WORKS CARRIED OUT ADJACENT TO AND WITHIN TRANSGRID'S EASEMENT TO COMPLY WITH TRANSGRID'S GUIDELINES AND REQUIREMENTS.
15. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH PENRITH CITY COUNCIL'S ENGINEERING CONSTRUCTION SPECIFICATION FOR CIVIL WORKS

SURVEY NOTES

THE EXISTING SITE CONDITIONS SHOWN ON THE FOLLOWING DRAWINGS HAVE BEEN INVESTIGATED BY BOXALL, BEING REGISTERED SURVEYORS. THE INFORMATION IS SHOWN TO PROVIDE A BASIS FOR DESIGN. AT&L DOES NOT GUARANTEE THE ACCURACY OR COMPLETENESS OF THE SURVEY BASE OR ITS SUITABILITY AS A BASIS FOR CONSTRUCTION DRAWINGS.

SHOULD DISCREPANCIES BE ENCOUNTERED DURING CONSTRUCTION BETWEEN THE SURVEY DATA AND ACTUAL FIELD DATA, CONTACT AT&L.

THE FOLLOWING NOTES HAVE BEEN TAKEN DIRECTLY FROM THE ORIGINAL SURVEY DOCUMENTS.

NOTES
1. THE BOUNDARIES HAVE APP0ROXIMATELY BEEN SURVEYED IN ACCORDANCE WITH CLAUSE 9 OF THE SURVEYING & SPATIAL INFORMATION REGULATION 2017
2. ALL AREAS AND DIMENSIONS HAVE BEEN COMPILED FROM PLANS MADE AVAILABLE BY NSW LAND REGISTRY SERVICES AND ARE SUBJECT TO FINAL SURVEY
3. ORIGIN OF COORDINATES HAS BEEN DERIVED USING GPS (GNSS) SURVEY FROM TBC.
4. ORIGIN OF LEVELS ON A.H.D. IS TAKEN FROM PM33561 USING GPS (GNSS) SURVEY METHODS.
5. CONTOUR INTERVAL 0.5 m
6. CONTOURS ARE INDICATIVE ONLY. ONLY SPOT LEVELS SHOULD BE USED FOR CALCULATIONS OF QUANTITIES WITH CAUTION
7. NO INVESTIGATION OF UNDERGROUND SERVICES HAS BEEN MADE. SERVICES HAVE BEEN PLOTTED FROM RELEVANT AUTHORITIES INFORMATION AND HAVE NOT BEEN SURVEYED. ALL RELEVANT AUTHORITIES SHOULD BE NOTIFIED PRIOR TO ANY EXCAVATION ON OR NEAR THE SITE
8. 8/.4/7 DENOTES TREE SPREAD OF 8m, TRUNK DIAMETER OF 0.4m & APPROX HEIGHT OF 7m
9. SHOWS APPROXIMATE POSITION OF ROAD LINEMARKING AND IS INDICATIVE ONLY

EXISTING UNDERGROUND SERVICES

1. THE LOCATIONS OF UNDERGROUND SERVICES SHOWN IN THIS SET OF DRAWINGS HAVE BEEN PLOTTED FROM SURVEY INFORMATION AND SERVICE AUTHORITY INFORMATION. THE SERVICE INFORMATION HAS BEEN PREPARED ONLY TO SHOW THE APPROXIMATE POSITIONS OF ANY KNOWN SERVICES AND MAY NOT BE AS CONSTRUCTED OR ACCURATE.
2. AT & L CAN NOT GUARANTEE THAT THE SERVICES INFORMATION SHOWN ON THESE DRAWINGS ACCURATELY INDICATES THE PRESENCE OR ABSENCE OF SERVICES OR THEIR LOCATION AND WILL ACCEPT NO LIABILITY FOR INACCURACIES IN THE SERVICES INFORMATION SHOWN FROM ANY CAUSE WHATSOEVER.
3. CONTRACTORS SHALL TAKE DUE CARE WHEN EXCAVATING ONSITE INCLUDING HAND EXCAVATION WHERE NECESSARY.
4. CONTRACTORS ARE TO CONTACT THE RELEVANT SERVICE AUTHORITY PRIOR TO COMMENCEMENT OF EXCAVATION WORKS.
5. CONTRACTORS ARE TO UNDERTAKE A SERVICES SEARCH, PRIOR TO COMMENCEMENT OF WORKS ON SITE. SEARCH RESULTS ARE TO BE KEPT ON SITE AT ALL TIMES.
6. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR IS TO CONFIRM THE ALIGNMENT AND LEVELS OF ALL EXISTING SERVICES AT ALL LOCATIONS WHERE THE PROPOSED SERVICES ARE TO CROSS, CONNECT TO, OR ARE LOCATED IN CLOSE PROXIMITY TO THE EXISTING SERVICES.

DECOMMISSIONING / DEMOLITION

1. DEMOLITION OF EXISTING STRUCTURES TO BE CONDUCTED IN ACCORDANCE WITH THE PROVISIONS OF AS2601-2001 - DEMOLITION OF STRUCTURES BY CONTRACTORS EXPERIENCED IN THIS CLASS OF WORK AND HOLDING REQUIRED CURRENT PERMITS AND LICENSES AS REQUIRED.
2. EXISTING INTERNALS FENCING, CATTLE YARDS, UTILITIES AND OTHER REDUNDANT STRUCTURES TO BE DEMOLISHED AND REMOVED TO AN APPROVED WASTE MANAGEMENT FACILITY.
3. DAM DECOMMISSIONING TO BE COMPLETED AS PER THE DAM DECOMMISSIONING PROCEDURE AS CONTAINED WITHIN THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
4. ALL EXISTING SERVICES (INCLUDING SEPTIC TANKS) SHALL BE REMOVED FROM SITE.
5. ALL UNDERGROUND CABLES AND PIPES SHALL BE GRUBBED OUT AND CAPPED AT THE BOUNDARY OF THE SITE.
6. ALL OVERHEAD SERVICES SHALL BE REMOVED FROM WITHIN THE SITE BOUNDARY AND MADE SAFE AT THE TERMINATION LOCATION. ANY POLES SHALL BE REMOVED FROM THE SITE.
7. ALL EXISTING SERVICES TO BE CONSIDERED AS LIVE UNTIL THE CONTRACTOR HAS TESTED AND CONFIRMED TO THE SUPERINTENDENT THAT THE SERVICES ARE DEAD / REDUNDANT.

DAM DEWATERING

1. ANY DAM DEWATERING WORKS TO BE AS PER THE DAM DEWATERING PLAN (AS CONTAINED WITHIN THE CEMP).

EROSION AND SEDIMENT CONTROL NOTES

GENERAL INSTRUCTIONS

1. THE SITE SUPERINTENDENT/ENGINEER WILL ENSURE THAT ALL SOIL AND WATER MANAGEMENT WORKS ARE LOCATED AS DOCUMENTED.
2. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
   a. LOCAL AUTHORITY REQUIREMENT
   b. EPA REQUIREMENTS
   c. NSW DEPARTMENT OF HOUSING MANUAL "MANAGING URBAN STORMWATER, SOILS AND CONSTRUCTION", 4th EDITION, MARCH 2004.
   d. TECHNICAL GUIDANCE FOR TECHNICAL GUIDANCE FOR ACHIEVING WIANAMATTA SOUTH CREEK STORMWATER MANAGEMENT TARGETS (NSW GOVERNMENT, 2022)
   e. PERFORMANCE CRITERIA FOR EROSION AND SEDIMENT CONTROLS LISTED IN APPENDIX 4 OF THE DEVELOPMENT CONSENT FOR SSD-23480429
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.
6. THE CONTRACTOR SHALL PREPARE ADDITIONAL EROSION AND SEDIMENT CONTROL PLANS THROUGHOUT THE WORKS THAT DOCUMENT THE REQUIRED CONTROLS TO MATCH THE STAGE AND PROGRESSION OF WORKS. IN THIS REGARD, THE EROSION AND SEDIMENT CONTROL PLANS INCLUDED WITHIN THIS DRAWING SET ARE GENERALLY THOSE CONTROLS TO BE IMPLEMENTED AT THE COMPLETION OF ALL WORKS.
7. SITE PERSONNEL RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROLS ARE TO BE APPROPRIATELY TRAINED IN IMPLEMENTATION AND MAINTENANCE OF CONTROL MEASURES
8. 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 WIND FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (B) INSTALL A SEDIMENT FENCE ALONG THE BOUNDARIES AS SHOWN ON PLAN. REFER DETAIL.
   (C) CONSTRUCT STABILISED CONSTRUCTION ENTRANCE TO LOCATION AS DETERMINED BY SUPERINTENDENT/ENGINEER. REFER DETAIL.
   (D) INSTALL SEDIMENT BASIN AS SHOWN ON PLAN
   (E) INSTALL SEDIMENT TRAPS AS SHOWN ON PLAN.
   (F) 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

1. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS WILL BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO KEEP DUST UNDER CONTROL.
2. FINAL SITE LANDSCAPING WILL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 20 WORKING DAYS FROM COMPLETION OF CONSTRUCTION ACTIVITIES.
3. WITHIN 5 DAYS OF THE CONCLUSION OF A RAINFALL EVENT, SEDIMENT BASINS MUST BE TREATED AND APPROVED CAPACITY RESTORED FOR THE ONGOING MANAGEMENT OF THE SITE SEDIMENT YIELD. IT IS NOTED THAT SOME BASINS MAY BE OVERSIZED TO RETAIN SITE WATER FOR CONSTRUCTION PURPOSES.
4. SITE WATER DISCHARGED FROM THE PROJECT WILL BE COMPLIANT WITH EPA CRITERIA AND WILL BE UNDERTAKEN AT APPROVED LOCATIONS BY APPROPRIATELY TRAINED SITE PERSONNEL. WATER DISCHARGE IS TO BE UNDERTAKEN AT NON-EROSIVE VELOCITIES WITH ADEQUATE DIFFUSERS, LEVEL SPREADERS, ETC. AND WILL ENSURE LOCALISED FLOODING DOES NOT OCCUR.
5. BASIN SPILLWAY MATERIAL WILL BE CLASSIFIED AS SUITABLE TO ACHIEVE DESIRED COMPACTION FOR STRUCTURE STABILITY.
6. NO VISIBLE OIL AND GREASE SHALL BE PRESENT IN ANY WATER TO BE DISCHARGED OFFSITE.
7. IF REQUIRED, THE CONTRACTOR SHALL ADD FLOCCULENT (E.G. GYPSUM) TO DROP SEDIMENT OUT OF SOLUTION TO MEET EPA REQUIREMENTS FOR TURBIDITY. THE PH OF ANY WATER TO BE DISCHARGED OFFSITE SHALL MEET EPA REQUIREMENTS.
8. BASIN INLET AND SPILLWAY CONSTRUCTION WILL INCLUDE SUITABLE SLOPE STABILISATION REQUIREMENTS AS REQUIRED TO ACHIEVE STABILITY FROM DISCHARGE AND OVERTOPPING WATER E.G. ROCK SCOUR AND GEOFABRIC. THE CONTRACTOR SHALL CONFIRM THE SPECIFIC SLOPE STABILITY CONTROLS.
9. WHERE MATERIAL OR FABRIC IS USED, THE MATERIAL WILL BE OVERLAPPED BY A MINIMUM 300MM AND ANCHORED IN TO PREVENT SLIPPAGE AND UNDERCUTTING ON THE SLOPE.
10. WHERE ROCK MATERIAL IS USED, ROCK WILL BE A MINIMUM 150MM IN DIAMETER AND CONSTRUCTED TO PROVIDE ENERGY DISSIPATION FOR OVERTOPPING WATER.
11. THE FINISHED SPILLWAY WILL BE FREE OF DEPRESSIONS, POCKETS OF SMALL ROCK AND WILL BE SMOOTH AND UNIFORM SURFACE TO ENSURE EVEN FLOW OF OVERTOPPING WATER.COMPLETED EARTHWORKS PADS, WHICH ARE TO REMAIN UNDISTURBED FOR AN EXTENDED PERIOD OF TIME, SHALL BE SUITABILITY STABILISED (E.G. CHEMICAL BINDERS OR HYDROMULCHING) TO PREVENT DUST GENERATION AND SEDIMENT RUNOFF.

SEDIMENT CONTROL

1. 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.
2. 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.
3. 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.
4. TEMPORARY SOIL AND WATER MANAGEMENT STRUCTURES WILL BE REMOVED ONLY AFTER THE LANDS THEY ARE PROTECTING ARE REHABILITATED.
5. INSPECTIONS OF EROSION AND SEDIMENT CONTROLS WILL OCCUR (AND BE DOCUMENTED) ON A REGULAR BASIS. THIS WILL INCLUDE IMMEDIATELY FOLLOWING RAINFALL EVENTS >10MM, WITH ANY NECESSARY REPAIRS IMPLEMENTED AS SOON AS POSSIBLE.
6. RELEVANT CHECKLISTS AND RECORDS TO BE MAINTAINED NOTING DETAILS SUCH AS RAINFALL RECEIVED, REPAIRS TO CONTROLS AND AMOUNTS OF SEDIMENTS CLEANED FROM CONTROLS.
7. ALL SITE PERSONNEL TO REPORT ANY SPILL, LEAKS, OR OTHER FAILURE TO RELEVANT RESPONSE STAFF AS SOON AS POSSIBLE.
8. EROSION AND SEDIMENT CONTROLS ARE TO BE MAINTAINED UNTIL THE PROJECT CATCHMENTS AREA IS STABILISED TO ACHIEVE SOIL SURFACE PROTECTION FACTORS AS PER THE 'BLUEBOOK'. AN INSPECTION BY THE PROJECT SOIL CONSERVATIONIST WILL BE UNDERTAKEN TO VERIFY THE STABILISATION OF THE PROJECT CATCHMENT AREA PRIOR TO REMOVAL OF CONTROLS.

OTHER MATTERS

1. 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, WHICH EVER 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.

EMBANKMENT CONSTRUCTION SEQUENCE

1. STRIP VEGETATION AND TOPSOIL FROM EMBANKMENT AREA AND STOCKPILE TOPSOIL FOR LATER USE. CUT BACK AREA TO FIRM GROUND.
2. CONSTRUCT EMBANKMENT IN PRESENCE OF QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IF NOT ROCK.
3. IN THE CASE WHERE THE EMBANKMENT AREAS SHOW ANY FAILURE, THE CONTRACTOR IS TO ENGAGE A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER TO DETERMINE THE CAUSE AND METHOD OF RECTIFICATION
4. COMPACT CLAY STABILISED WITH GYPSUM (3% BY DRY MASS, MINIMUM) AS APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER INTO THE CUT-OFF TRENCH OF LAYERS NOT EXCEEDING 150mm LOOSE THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT.
5. GYPSUM STABILISED NATURAL SOILS EXPOSED IN EMBANKMENT AREA WITH MINIMUM 3% GYPSUM BY DRY MASS AND COMPACT AS FOR #4. ALL TO THE APPROVAL OF A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
6. CONSTRUCT BODY OF EMBANKMENT WITH CLAYEY MATERIAL WON FROM SITE. COMPACT THE CLAYEY MATERIAL APPROVED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER IN LAYERS NOT EXCEEDING 150mm THICKNESS TO A DRY DENSITY EQUIVALENT TO 98% OF THAT DETERMINED BY STANDARD COMPACTION (AS 1289.5.1.1) AND AT A MOISTURE CONTENT OF -2% TO +2% OF OPTIMUM MOISTURE CONTENT. MOST IMPORTANTLY, IF SHRINKAGE CRACKS OCCUR, AS DIRECTED BY A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER.
7. OVERFILL THE EMBANKMENT AND TRIM OFF, SO THAT THE ENTIRE BODY OF THE EMBANKMENT IS COMPACTED.
8. TRIM THE EMBANKMENTS BATTERS TO THE OVERFILLED MATERIAL, STABILISE THE UPSTREAM CLAY BATTERS WITH WELL MIXED GYPSUM (3% BY DRY MASS, MINIMUM) AND COMPACT TO MIN. 98% STD -2% TO +2% OMC.
9. PLACE ROCK RIP-RAP AS SHOWN.
10. RECOVER TOPSOIL FROM STOCKPILE AND SPREAD OVER EMBANKMENT AND CUT BATTERS (A THIN COVER OF TOPSOIL ONLY HAS BEEN NOMINATED). ONLY LIGHTLY TRACK-ROLL THE TOPSOIL AND THEN LANDSCAPE IN ACCORDANCE WITH THE LANDSCAPE AREA DRAWINGS.
11. WATER AND FERTILISE LANDSCAPE AS REQUIRED BY CLIMACTIC CONDITIONS TO ENSURE THE LANDSCAPE IS SUCCESSFUL.
12. AT THE COMPLETION OF WORK WRITTEN CONFIRMATION AND CERTIFICATION IS TO BE PROVIDED FROM A QUALIFIED AND EXPERIENCED GEOTECHNICAL ENGINEER THAT THE EMBANKMENTS HAVE BEEN CONSTRUCTED IN ACCORDANCE WITH THESE DRAWINGS.

CONSTRUCTION TOLERANCES

BULK EARTHWORKS		
EARTHWORKS	-50mm / +0mm	OF FINISHED SURFACE LEVEL (AFTER COMPACTION AND TRIMMING)

TOLERANCE FOR EMBANKMENT BATTERS

LOCATION	**TOLERANCE (mm)**	
	SLOPE 1H:1V OR FLATTER	SLOPE STEEPER THAN 1H:1V
AT LEVEL OF TOP OF FORMATION/ UNDERSIDE OF PAVEMENT	+0/-150	+0/-150
BETWEEN TOP OF FORMATION AND 1m BELOW TOP OF FORMATION	+150/-150	+150/-150
BEYOND 1m BELOW TOP OF FORMATION	+300/-300	+300/-300

REFER TO TfNSW R44 SPECIFICATION

BEFORE YOU DIG
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CONTRACTOR SHALL OBTAIN ALL CURRENT SERVICE AUTHORITY PLANS PRIOR TO COMMENCEMENT OF WORK

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

THIS DRAWING CANNOT BE COPIED OR REPRODUCED IN ANY FORM OR USED FOR ANY OTHER PURPOSE OTHER THAN THAT ORIGINALLY INTENDED WITHOUT THE WRITTEN PERMISSION OF AT&L

Client
ICON
OCEANIA

Scales N.T.S.
Grid GDA 2020
Height Datum AHD
GDA2020

Drawn ASD
Designed TM
Checked MM
Approved

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Status FOR CONSTRUCTION
A1
Project - Drawing No. 21-860-C3002
Issue 01

A. INTRODUCTION

1) THE DETAILS SHOWN WITHIN THIS EROSION AND SEDIMENT CONTROL PLAN (ESCP) ARE OVER-ARCHING CONTROL REQUIREMENTS ONLY. AS THE WORKS PROGRESS AND SITE CONDITIONS CHANGE, THIS PLAN IS TO BE UPDATED ACCORDINGLY. SITE SPECIFIC PROGRESSIVE EROSION AND SEDIMENT CONTROL PLANS (PESCPS) WILL ALSO BE REQUIRED TO DETAIL SPECIFIC WORKS. THIS ESCP HAS BEEN PREPARED TO SUPPLEMENT THE PROJECT'S CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN (CEMP).
2) THIS ESCP HAS BEEN PREPARED BY A CPESC IN ACCORDANCE WITH THE BLUE BOOK VOLUME 1 (LANDCOM, 2004) AND TO MEET THE REQUIREMENTS FOR CONSTRUCTION PHASE WATER QUALITY MANAGEMENT AS SET OUT IN THE TECHNICAL GUIDANCE FOR ACHIEVING WIANAMATTA SOUTH CREEK STORMWATER MANAGEMENT TARGETS (NSW GOVERNMENT, 2022). IT DEMONSTRATES THE CONSTRUCTION APPROACH AND TIMING REQUIREMENTS FOR ACHIEVING THE CONSTRUCTION PHASE STORMWATER QUALITY TARGETS.
3) THE NSW GOVERNMENT (2022) TECHNICAL GUIDANCE (AS NOTED ABOVE) REQUIRES 80% OF THE AVERAGE ANNUAL RUNOFF VOLUME ACHIEVES 50mg/L TOTAL SUSPENDED SOLIDS (TSS) OR LESS AND PH IN THE RANGE OF 6.5-8.5.

B. DESIGN PARAMETERS

1) 5 DAY 85^{TH} PERCENTILE RAINFALL DEPTH = 35mm (PENRITH)
2) THE SITE IS LOCATED IN THE LUDDENHAM AND BLACKTOWN SOIL LANDSCAPES (SOIL TEXTURE TYPE D)
3) 2-YEAR 6-HOUR DURATION RAINFALL INTENSITY = 9.04mm/hr, WHICH GENERATES A RAINFALL EROSIVITY FACTOR OF 1870.

C. GENERAL REQUIREMENTS

1) **THE CONTRACTOR WILL NOT COMMENCE EARTHWORKS UNTIL CONFIRMATION THAT THIS ESCP HAS BEEN APPROVED BY THE PLANNING SECRETARY OF THE NSW DEPARTMENT OF PLANNING, HOUSING AND INFRASTRUCTURE.**
2) THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTION INCLUDING THE MAINTENANCE PERIOD.
3) THE SITE SUPERINTENDENT WILL ENSURE THAT ALL EROSION AND SEDIMENT CONTROL MEASURES ARE LOCATED AS DOCUMENTED.
4) THE EXTENT AND POSITION OF THE EROSION AND SEDIMENT CONTROL MEASURES TO BE DETERMINED ON SITE BY THE CONTRACTOR TO SUIT THE CONSTRUCTION PROGRAM.
5) EROSION AND SEDIMENT CONTROL DEVICES SHALL BE MAINTAINED TO THE SATISFACTION OF THE SUPERINTENDENT, THE PROJECT APPOINTED CPESC, THE PROJECT APPOINTED ENVIRONMENTAL REPRESENTATIVE AND THE LOCAL STORMWATER AND ROADS AUTHORITY.
6) THE MEASURES SHOWN ON THESE DRAWING(S) ARE MINIMUM REQUIREMENTS ONLY.
7) THE CONTRACTOR SHALL AT ALL TIMES BE RESPONSIBLE FOR THE ESTABLISHMENT, MANAGEMENT AND MAINTENANCE OF THE EROSION AND SEDIMENT CONTROL MEASURES TO MEET STATE AND LOCAL GOVERNMENT STANDARDS AND GUIDELINES.
8) SITE PERSONNEL RESPONSIBLE FOR IMPLEMENTING EROSION AND SEDIMENT CONTROLS SHALL BE APPROPRIATELY TRAINED IN IMPLEMENTATION AND MAINTENANCE OF CONTROL MEASURES.
9) ALL SITE PERSONNEL SHALL REPORT ANY SPILLS, LEAKS OR OTHER FAILURE OF ANY EROSION OR SEDIMENT CONTROL MEASURE TO THE SUPERINTENDENT AND/OR ENVIRONMENTAL MANAGER AS SOON AS POSSIBLE.
10) WHERE PRACTICAL, THE SOIL EROSION HAZARD ON THE SITE SHALL BE KEPT AS LOW AS POSSIBLE. TO ACHIEVE THIS, WORK SHOULD BE UNDERTAKEN IN THE FOLLOWING SEQUENCE:
    a. INSTALL SEDIMENT FENCING ALONG THE PROPERTY BOUNDARY AS SHOWN ON THE PLANS.
    b. UNDERTAKE SITE DEVELOPMENT WORKS IN ACCORDANCE WITH THE PHASING PLANS.
    c. PHASE DEVELOPMENT TO MINIMISE THE EXTENT OF LAND DISTURBANCE.
11) LARGE OPEN AREAS OR STEEP BATTERS SHOULD NOT BE LEFT EXPOSED/UNSTABILISED FOR MORE THAN 10 DAYS OR IF WET WEATHER IS FORECAST.
12) EXPOSED AREAS INCLUDING BATTERS WHICH REMAIN UN-WORKED FOR MORE THEN 10 DAYS SHOULD BE STABILISED USING TEMPORARY HYDROMULCHING, HYDROSEEDING OR MULCHING, EVEN IF AREAS WILL BE WORKED AT A LATER TIME.
13) ALL WORKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DOCUMENT TITLED TECHNICAL GUIDANCE FOR ACHIEVING WIANAMATTA SOUTH CREEK STORMWATER MANAGEMENT TARGETS (NSW GOVERNMENT, 2022).
14) THE CONTRACTOR SHALL BE AWARE OF ITS RESPONSIBILITIES FOR PROTECTING THE DOWNSTREAM ENVIRONMENT AND RECEIVING WATER FROM POLLUTION AND ENVIRONMENTAL HARM, UNDER THE POEO ACT 1997.
15) ADDITIONALLY, THE CONTRACTOR SHALL BE AWARE OF ITS DUTY UNDER THE POEO ACT 1997 TO NOTIFY THE LOCAL AUTHORITY AND THE ENVIRONMENT PROTECTION AUTHORITY (NSW) OF A POTENTIAL OR ACTUAL INCIDENT OF ENVIRONMENTAL HARM.

D. RECOMMENDED IMPLEMENTATION SEQUENCE

1) EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND FUNCTIONAL PRIOR TO WORKS COMMENCING AND IN THE FOLLOWING SEQUENCE.
    a. CONSTRUCT TEMPORARY STABILISED SITE ACCESS, ENSURING ADJACENT STORMWATER RUN OFF IS DIVERTED AWAY FROM ACCESS. ENSURE THAT ALL VEHICLES ENTERING AND LEAVING THE WORK AREA PASS OVER A STABILISED SITE ACCESS POINT. A VEHICLE WHEEL WASH / WASH DOWN FACILITY IS TO BE ESTABLISHED AT THE MAIN CONSTRUCTION EXIT AND ALL CONSTRUCTION VEHICLES MUST PASS THROUGH THIS POINT WHEN LEAVING THE SITE.
    b. SITE ACCESS AND DISTURBANCE MUST BE MINIMISED TO THE AREAS ESSENTIAL FOR THE CONSTRUCTION WORKS ONLY.
    c. ESTABLISH A TEMPORARY SITE OFFICE, TOILET AND PARKING AREA AS NOMINATED BY THE SITE MANAGER.
    d. INSTALL SEDIMENT FENCING AND/OR BARRIER FENCING TO CONFINE INGRESS TO AND EGRESS FROM THE SITE TO STABILISED ACCESS POINT(S) ONLY.
    e. PROVIDE INLET PROTECTION TO STORMWATER INLETS AND GULLIES ON ALL ROADS ADJOINING THE SITE.
    f. CONSTRUCT BARRIER FENCING AROUND RESTRICTED 'NO-GO' ZONES OF RETAINED VEGETATION, AREAS NOT TO BE DISTURBED AND AREAS WHICH WILL REMAIN UN-WORKED.
    g. CONSTRUCT UPSTREAM DIVERSION CHANNELS TO DIVERT CLEAN WATER AROUND WORKSITE AND INSTALL APPROPRIATE CHANNEL STABILISATION.
    h. CONSTRUCT LOW FLOW EARTH BANKS AS CATCH DRAINS PARALLEL TO CONTOURS TO LIMIT LARGE SLOPE LENGTHS (SLOPES SHOULD BE LESS THEN 80M IN LENGTH).
    i. INSTALL ALL TEMPORARY SEDIMENT FENCES.
    j. CONSTRUCT ANY NOMINATED SEDIMENT BASINS AND SEDIMENT TRAPS.
    k. ESTABLISH STOCKPILE AREAS IN AREAS AS SPECIFIED BY THE SITE MANAGER AND IN ACCORDANCE WITH THE SOIL STRIPPING AND STOCKPILING NOTES BELOW.
    l. EXISTING DAMS ARE TO BE PROGRESSIVELY DEWATERED IN ACCORDANCE WITH THE PROJECT APPROVED DEWATERING PROCEDURE AND IN ACCORDANCE WITH THE 'DIRTY WATER TREATMENT AND DISCHARGE REQUIREMENTS' NOTES AND OTHER RECOMMENDATIONS ON THIS PLAN. NOTE THAT IN SOME INSTANCES (WHERE DIVERSION DRAINS OR SEDIMENT BASINS ARE LOCATED IN THE POSITION OF EXISTING DAMS), DEWATERING OF THE DAMS WILL NEED TO OCCUR PRIOR TO THE CONSTRUCTION OF THESE DEVICES.
    m. STABILISE ALL DISTURBED AREAS ASAP AND PROGRESSIVELY AS WORKS ARE COMPLETED. TEMPORARY STABILISATION TO BE DONE USING GEOTEXTILE, MULCHING, HYDROMULCHING, HYDROSEEDEDING OR DIRECT SEEDING TO GIVE A 70% COVERAGE OF GROUND SURFACE WITHIN 14 DAYS OF WORKS COMPLETING (EVEN IF WORKS MAY CONTINUE LATER).
2) UNDERTAKE SITE DEVELOPMENT WORKS SO THAT LAND DISTURBANCE IS CONFINED TO MINIMUM WORKABLE AREAS.
3) DISTURBED AREAS TO EXTEND NO MORE THAN 5 METRES (PREFERABLY 2 METRES) FROM ESSENTIAL WORKS AREAS.
4) WORK AREAS TO BE DELINEATED BY BARRIER FENCING AND DIVERSION CHANNEL UPSLOPE AND SEDIMENT FENCING DOWNSLOPE.
5) THE CONTRACTOR SHALL ENSURE THAT THE EXISTING VEGETATION AND GROUNDCOVER IS RETAINED AS MUCH AS POSSIBLE.
6) SITE VEGETATION APPROVED FOR CLEARING SHOULD BE MULCHED AND STOCKPILED FOR LATER USE IN LANDSCAPING, STABILISATION AND/OR SITE REHABILITATION WORKS.
7) AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND RECEIVING ENVIRONMENTS.
8) EROSION AND SEDIMENT CONTROL PROTECTION MEASURES SHALL BE MAINTAINED BY THE CONTRACTOR THROUGHOUT CONTRACT.
9) PLANS AND CONTROL MEASURES FOR LARGE SITES WILL NEED TO BE REVISED AND UPDATED TO REFLECT THE SITE STAGES AND PROGRESSION OF WORKS.
10) MEASURES INCLUDING SEDIMENT FENCES SHOULD BE MOVED AND REINSTATED AS WORKS PROGRESS.
11) PEDESTRIAN AND VEHICULAR TRAFFIC TO BE RESTRICTED IN RECENTLY STABILISED AREAS INCLUDING THOSE HYDROSEEDED, TURFED OR SEEDED.

E. EROSION AND SEDIMENT CONTROL MEASURES

1) TO SATISFY THE REQUIREMENT OF 80% HYDROLOGICAL EFFECTIVENESS FOR CONSTRUCTION PHASE WATER QUALITY MANAGEMENT, ALL FEASIBLE AND PRACTICAL MEASURES SHOULD BE IMPLEMENTED FOR THE DURATION OF WORKS. SPECIFIC MEASURES INCLUDE:
    - UTILISING EXISTING DAMS AND / OR FUTURE WATER RETENTION DEVICES WHERE PRACTICABLE TO PROVIDE ADDITIONAL WATER STORAGE VOLUME AND BREAK UP CATCHMENTS;
    - ENHANCED EROSION CONTROLS (E.G. REDUCED SLOPE LENGTHS, INCREASED FOCUS ON TEMPORARY AND PROGRESSIVE STABILISATION, ADDITIONAL CHECK DAMS AND A FOCUS ON TEMPORARY DRAINAGE CONTROL
    - PASSIVE BROADCAST GYPSUM SPREADING OVER THE ENTIRE DISTURBED CATCHMENT PRIOR TO LARGER RAINFALL EVENTS BEYOND THE SEDIMENT BASIN DESIGN TO ASSIST WITH WATER TREATMENT AND TO MINIMISE SOIL LOSS
    - PRE-LOADING SEDIMENT BASIN, SEDIMENT TRAPS AND THEIR INLET DRAINAGE DEVICES WITH GYPSUM OR BIOPOLYMER SOCKS TO SPEED UP SETTLEMENT RATES; AND
    - ADAPTIVE MANAGEMENT RESULTING FROM MONTHLY INSPECTIONS BY A CPESC, INCLUDING ACTING ON ADVICE AND IMPLEMENTING CHANGES TO THE EROSION AND SEDIMENT CONTROLS WHERE NECESSARY.
2) THE FOLLOWING EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE UNDERTAKEN AS REQUIRED DURING ALL STAGES OF THE WORKS:
    a. TOPSOIL STRIPPING IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE 'SOIL STRIPPING AND STOCKPILING' NOTES.
    b. SLOPE LENGTHS ACROSS DISTURBED LANDS ARE TO BE MAINTAINED AT MAXIMUM 40M INTERVALS DURING ALL RAINFALL EVENTS. TO ACHIEVE THIS, DIVERSION BUNDS / DRAINS, LOW FLOW EARTH BANKS (STANDARD DRAWING SD 5-5) OR SANDBAGS / EQUIVALENT SHOULD BE INSTALLED PRIOR TO FORECAST RAINFALL AND SITE CLOSURE OF MORE THAN 2 DAYS. (NOTE THAT 40M INTERVALS ARE LESS THAN THE DESIGN SLOPE LENGTH OF 80M TO PROVIDE ENHANCED EROSION CONTROL AND ASSIST WITH REDUCING SEDIMENT MOVEMENT - ALSO REFER TO THE 'RAINFALL PREPARATION PROCEDURE' NOTES).
    c. BROADCAST GYPSUM SPREADING IS TO BE UNDERTAKEN ACROSS ALL EXPOSED SOILS PRIOR TO FORECAST RAINFALL ABOVE THE 85TH PERCENTILE DESIGN RAINFALL EVENT AND SITE CLOSURE OF MORE THAN 2 DAYS IN ACCORDANCE WITH THE 'RAINFALL PREPARATION PROCEDURE'.
    d. SEDIMENT BASIN AND SEDIMENT TRAP INLET POINTS WILL BE PRE-LOADED WITH GYPSUM (OR EQUIVALENT) PRIOR TO FORECAST RAINFALL ABOVE THE 85TH PERCENTILE DESIGN RAINFALL EVENT AND SITE CLOSURE OF MORE THAN 2 DAYS IN ACCORDANCE WITH THE 'RAINFALL PREPARATION PROCEDURE'.
    e. MAJOR DIRTY WATER DIVERSION DRAINS WILL HAVE GYPSUM, BIOPOLYMER GEL SOCKS (OR EQUIVALENT) PLACED WITHIN THEM AT 80M INTERVALS. THESE DEVICES WILL BE MAINTAINED OR REPLACED AS REQUIRED TO ENSURE THEY ARE IN PLACE PRIOR TO FORECAST RAINFALL ABOVE THE 85TH PERCENTILE DESIGN RAINFALL EVENT AND SITE CLOSURE OF MORE THAN 2 DAYS IN ACCORDANCE WITH THE 'RAINFALL PREPARATION PROCEDURE'.
    f. DUST SUPPRESSION TO BE CARRIED OUT WHEN REQUIRED (REFER TO THE 'DUST SUPPRESSION' NOTES).
    g. TEMPORARY DIRTY WATER CONTROL STRUCTURES (E.G. BATTER CHUTES, CHECK DAMS AND WINDROWS) ARE TO BE IMPLEMENTED (REFER TO THE 'RAINFALL PREPARATION PROCEDURE' NOTES).
    h. TEMPORARY STABILISATION IS TO BE UNDERTAKEN IN ACCORDANCE WITH THE 'STABILISATION' NOTES AND THE 'RAINFALL PREPARATION PROCEDURE' AND THE INSTRUCTIONS ON THE PLAN/S.
    i. TREATMENT OF DIRTY WATER IS TO BE CARRIED OUT AS NECESSARY IN ACCORDANCE WITH THE 'DIRTY WATER TREATMENT AND DISCHARGE REQUIREMENTS' NOTES.
    j. MEASURES TO ASSIST WITH SALINITY MANAGEMENT ARE TO BE CARRIED OUT IN ACCORDANCE WITH THE 'SALINITY CONSIDERATIONS' NOTES AND THE PROJECT'S SALINITY MANAGEMENT PLAN.
    k. MONITORING, MAINTENANCE AND INSPECTIONS ARE TO BE CARRIED OUT REGULARLY AS REQUIRED, IN ACCORDANCE WITH THE 'SITE INSPECTION AND MONITORING' NOTES.
    l. UNDERTAKE PROGRESSIVE STABILISATION OF LANDS AS FINAL EARTHWORKS ARE COMPLETE IN EACH AREA (RATHER THAN WAITING UNTIL THE COMPLETION OF WORKS). FINAL STABILISATION IS TO BE COMPLETED IN ACCORDANCE WITH THE 'STABILISATION' NOTES.
    m. WHEN STORMWATER PITS ARE CONSTRUCTED, PREVENT SITE RUNOFF ENTERING UNLESS SEDIMENT FENCES OR GRAVEL FILLED MESH FILTERS ARE INSTALLED AROUND PIT INLETS.
3) FINAL SITE LANDSCAPING SHALL BE UNDERTAKEN AS SOON AS POSSIBLE AND WITHIN 10 WORKING DAYS OF CONSTRUCTION COMPLETION
4) SEDIMENT LADEN WATER SHALL BE PREVENTED FROM ENTERING THE PERMANENT DRAINAGE SYSTEM BY USING INLET PROTECTION.
5) ALL PERIMETER BANKS AND CHANNEL DRAINS SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET.

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
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100mm on Original

Bar Scales

Client
ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

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Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3003
Issue 01

6) ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED ONCE SITE IS STABILISED AND UPSTREAM WORKS HAVE BEEN COMPLETED.

7) AT CONSTRUCTION COMPLETION ALL TEMPORARY EARTH STRUCTURES, INCLUDING SOIL STOCKPILES ARE TO BE TRACK ROLLED AND SEEDED. THE CONTRACTOR IS TO ENSURE A 70% COVERAGE WITHIN 14 DAYS.

8) EROSION AND SEDIMENT CONTROLS ARE TO BE CONSTRUCTED WITH ULTRAVIOLET STABILISED MATERIALS THAT WILL NOT BECOME A POLLUTANT SOURCE AND ARE TO BE PROMPTLY REMOVED ONCE THE CONTRIBUTING CATCHMENT HAS BECOME PERMANENTLY STABILISED.

F. SOIL STRIPPING ANG STOCKPILING

1) TOPSOIL SHOULD IDEALLY BE STRIPPED WHEN IT IS MOIST, NOT TOO WET OR TOO DRY.

2) TAKE CARE WHEN STRIPPING TOPSOIL NOT TO STRIP SUBSOIL WITH THE TOPSOIL PROFILE. TOPSOIL AND SUBSOILS SHOULD BE MANAGED SEPARATELY.

3) WHEREVER POSSIBLE, STOCKPILES ARE TO BE ESTABLISHED AND MAINTAINED IN ACCORDANCE WITH STANDARD DRAWING SD 4-1 (LANDCOM, 2004).

4) AS MUCH AS IS FEASIBLE, MULCHED VEGETATION, TOPSOIL AND SUBSOIL (IF APPLICABLE) ARE TO BE STOCKPILED SEPARATELY.

5) SEDIMENT FENCING IS TO BE INSTALLED AROUND THE LOWER EDGE OF STOCKPILES AS PER STANDARD DRAWING SD 4-1, UNLESS THE STOCKPILE IS IMMEDIATELY ADJACENT TO A SUITABLE ALTERNATIVE CONTROL SUCH AS A SEDIMENT BASIN. A DIVERSION DRAIN/BUND IS TO BE INSTALLED ON THE HIGH SIDE OF STOCKPILES IF RUN-ON FROM UPSLOPE LANDS COULD IMPACT ON THE STOCKPILE.

6) STOCKPILES ARE NOT TO BE POSITIONED WITHIN 5M OF POSSIBLE CONCENTRATED WATER FLOW (INCLUDES ROAD GUTTERS AND TABLE DRAINS).

7) STOCKPILES ARE TO BE SITED AT LEAST 50M FROM ANY WATERCOURSE, NATURAL DRAINAGE LINE OR CREEK AND AT LEAST 2M FROM ANY TREES TO BE RETAINED.

8) STOCKPILES WILL NOT BE LOCATED ON FLOOD PRONE LANDS BELOW THE 5 YEAR FLOOD LEVEL (NOTING THE SITE IS PRONE TO OVERLAND FLOW FLOODING).

9) STOCKPILES WILL BE POSITIONED WITHIN THE APPROVED PROJECT CONSTRUCTION BOUNDARY AND AWAY FROM PROTECTED AREAS (E.G. NATIVE VEGETATION).

10) INACTIVE STOCKPILE FACES ARE TO BE PROVIDED WITH AT LEAST 60% COVER (I.E. RUSLE C-FACTOR OF 0.1) WITHIN 10 DAYS OF FORMATION. STABILISATION OF STOCKPILES CAN BE ACHIEVED BY SEEDING AND SPRAYING WITH A SOIL STABILISER (E.G. VITAL P47), COVERING WITH GEOTEXTILE OR MATTING OR EQUIVALENT (NOTE SEEDING IS NOT REQUIRED FOR STOCKPILES IF THEY WILL BE IN PLACE FOR LESS THAN 3 MONTHS OR IF THEY HAVE AN EXISTING SEEDBANK), STOCKPILES OF TOPSOIL OR MULCH SHOULD BE CONSTRUCTED TO NO MORE THAN 2 METERS IN HEIGHT WHEREVER POSSIBLE (NOTE THIS ONLY APPLIES TO TOPSOIL AND MULCH).

11) STOCKPILES SHOULD BE FORMED TO BE NO STEEPER THAN 2:1 (H:V) WHEREVER POSSIBLE.

G. DUST SUPPRESSION

1) DUST SUPPRESSION IS TO BE CARRIED OUT WHENEVER NECESSARY TO MINIMISE SEDIMENT BECOMING AIR BORNE DUE TO WIND EROSION.

2) AN APPROPRIATE WATER SOURCE FOR DUST SUPPRESSION AND / OR DUST SUPPRESSANT MANAGEMENT SYSTEM MUST BE IDENTIFIED PRIOR TO STARTING CONSTRUCTION WORKS.

3) ENSURE DUST SUPPRESSION IS CARRIED OUT IN A MANNER TO AVOID WATER RUNOFF, EROSION OR PONDING ON SURFACES (I.E. APPLY IN A GENTLE MANNER AT APPROPRIATE RATES AND MONITOR REGULARLY).

4) TEMPORARY STABILISERS (E.G. VITAL BON-MATT P47), GEOTEXTILE, JUTE MATTING OR EQUIVALENT CAN BE USED IN NON-TRAFFICKED AREAS TO ASSIST WITH DUST CONTROL.

H. MAINTENANCE OF PUBLIC ROADS

1) ALL CONSTRUCTION VEHICLES DEPARTING FROM THE SITE SHALL HAVE THEIR TYRES WASHED DOWN OR SEDIMENT REMOVED BY A STABILISED SITE ACCESS DEVICE.

2) THE STABILISED SITE ACCESS AREAS SHALL BE LOCATED SUCH THAT SILTED WATER IS FILTERED THROUGH A SUITABLE SEDIMENT TRAP (SUCH AS A SEDIMENT FENCE) INSTALLED DOWNSTREAM OF ACCESS.

3) THE CONTRACTOR SHALL INSPECT THE PUBLIC ROADS ADJACENT TO THE SITE DAILY AND MANUALLY REMOVE ANY SEDIMENT DEPOSITS (BY SWEEPING NOT WASH DOWN).

I. STABILISATION

1) UNDERTAKE PROGRESSIVE STABILISATION OF DISTURBED GROUND SURFACES AS THEY ARE COMPLETED RATHER THAN AT THE END OF THE WORKS PROGRAM (REFER TO TABLES 1 AND 2).

2) FINAL STABILISATION IS TO ACHIEVE THE C-FACTORS (GROUND COVER) DETAILED IN TABLES 1 AND 2.

3) FINAL REHABILITATION IS TO BE IN ACCORDANCE WITH THE LANDSCAPING / REHABILITATION PLANS.

4) THE CONTRACTOR WILL UNDERTAKE ROUTINE PROACTIVE INSPECTION AND CHECKING OF THE STABILITY AND STABILISATION OF EARTHWORKS AND STOCKPILES, PARTICULARLY PRIOR TO FORECAST RAINFALL AND DURING PERIODS OF HIGH WINDS.

5) AREAS TO BE REVEGETATED ARE TO BE TOPSOILED FIRST. TOPSOIL IS TO BE SPREAD EVENLY TO AT LEAST 75MM. REFER TO STANDARD DRAWING (SD 4-2) FOR INSTRUCTIONS REGARDING TOPSOIL REPLACEMENT.

6) TOPSOIL IS TO BE TESTED PRIOR TO REVEGETATION TO CONFIRM TREATMENT (AMELIORATION / FERTILISATION) REQUIREMENTS INCLUDING TESTING FOR DISPERSION, PH, TRACE NUTRIENTS, EC AND CEC.

7) APPROPRIATE SEEDBED PREPARATION SHOULD BE CARRIED OUT WHEN REVEGETATING LANDS (SEE STANDARD DRAWING (SD 7-1).

8) AS MUCH AS POSSIBLE, AVOID HANDLING TOPSOILS WHEN THEY ARE TOO WET OR TOO DRY. THIS HELPS PRESERVE SOIL STRUCTURE.

9) AVOID BLENDING FRESH MULCH WITH TOPSOIL, AS THIS LEADS TO DE-NITRIFICATION.

10) TO HELP PRESERVE SOIL STRUCTURE, AVOID EXCESSIVE COMPACTION OF TOPSOILS.

11) GYPSUM SHOULD BE APPLIED TO SUBSOILS (AS CLAY BREAKER) AT AROUND 0.5kg/m^2 FOR GENERAL SURFACES AND BATTERS. RATES TO BE CONFIRMED PRIOR TO REVEGETATION WITH SOIL TESTING.

12) ALL FLOW AREA SUBSOILS (DRAINAGE LINES, WATERWAYS, DIVERSION DRAINS, CHANNELS, BASINS) SHOULD BE GYSPUM TREATED AT A RATE OF 1.5kg/m^2.

13) TOPSOILS SHOULD BE AMELIORATED WITH LIME TO ADJUST PH IF FIELD TESTING SHOWS pH IS BELOW 6.5.

14) TOPSOILS MAY BENEFIT FROM AN APPLICATION OF NPK FERTILIZER PLUS TRACE ELEMENTS (S, CA AND MO). SOIL TESTING PRIOR TO RE-SPREADING CAN CONFIRM THE APPROPRIATE RATE.

15) PERMANENT DRAINS ARE TO BE STABILISED IN ACCORDANCE WITH ENGINEERING DESIGN BUT MUST ACHIEVE THE C-FACTORS (GROUND COVER) DETAILED IN TABLE 1. SOIL TESTING OF SUBSOILS AND TOPSOILS IS TO BE UNDERTAKING TO POTENTIAL SOIL TREATMENT / STABILISATION REQUIREMENTS.

16) TEMPORARY DIVERSION DRAINS / BUNDS ARE TO BE STABILISED TO ACHIEVE THE C-FACTORS AS DETAILED IN TABLES 1 AND 2, USING SEEDING + VITAL P47 + JUTE MESH/MATTING OR ALTERNATIVELY GEOTEXTILE FABRIC, ROCK OR TRM. SUBSOILS ARE TO BE TREATED FIRST BY LIGHTLY RIPPING GYPSUM INTO THE SURFACE AT A RATE OF APPROX. 1.5kg/m^2. REFER TO THE PLANS FOR SPECIFIC DETAILS. ALSO REFER TO STANDARD DRAWINGS (SD 5-6 AND SD 5-7).

17) REFER TO THE 'SOIL STRIPPING AND STOCKPILING' NOTES FOR STABILISATION REQUIREMENTS ON STOCKPILES. ALSO REFER TO TABLES 1AND 2 AND STANDARD DRAWING (SD 4-1).

18) SEDIMENT BASIN INLETS / OUTLETS ARE TO BE STABILISED IN ACCORDANCE WITH PERMANENT ENGINEERING DESIGN (WHERE APPLICABLE) OR WITH GEOTEXTILE UNDERLAY AND ROCK IN ACCORDANCE WITH RECOMMENDATIONS FOR "HIGH FLOW' AREAS ON TABLE 1 AND AS DETAILED ON THE PLAN.

19) HIGHLY TRAFFICKED AREAS SUCH AS LAYDOWN / STORAGE AREAS, HAUL ROADS / ACCESS TRACKS AND SITE COMPOUNDS WILL BE FORMED IN ACCORDANCE WITH ENGINEERING SPECIFICATIONS AND STABILISED WHERE NECESSARY AND AS MUCH AS PRACTICABLE TO MINIMISE EROSION AND PROVIDE A TRAFFICABLE SURFACE. STABILISATION OF THESE AREAS WILL BE ACHIEVED WITH SUITABLE TRAFFICABLE MEASURES (E.G. WITH HEAVY BOUND DGB (CEMENT STABILISED), AGGREGATE, CRUSHED ROCK, ROAD BASE OR A HEAVY DUTY TRAFFICABLE SOIL STABILISER) AND RE-GRADING / RE-SURFACING AS NECESSARY.

20) AS SURFACES ARE STABILISED (AT LEAST 90% OF ANY FINISHED AREA HAS AT LEAST 70% GROUND COVER) AND PERMANENT DRAINAGE MEASURES ARE INSTALLED, TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES AND WATER MANAGEMENT STRUCTURES CAN BE REMOVED (E.G. DIVERSION DRAINS).

21) TEMPORARY STABILISATION OF EXPOSED SURFACES ON HIGH RISK AREAS (I.E. STEEP SLOPES >5%, BATTERS, SURFACES NOT DRAINING TO SEDIMENT BASINS AND WORKS IN/NEAR WATERWAYS) WILL BE UNDERTAKEN PRIOR TO RAINFALL IN ACCORDANCE WITH THE 'RAINFALL PREPARATION PROCEDURE' NOTES AND THE INSTRUCTIONS ON THE PLAN.

22) ALL EXPOSED LANDS WHERE WORKS ARE NOT ACTIVELY OCCURRING (FOR 20 DAYS OR MORE) ARE TO BE TEMPORARILY STABILISED WITH A TEMPORARY GROUND COVER (I.E. A SOIL BINDER (E.G. VITAL STONEWALL), MATTING, GEOFABRIC OR EQUIVALENT).

23) WHEREVER POSSIBLE, RE-USE CLEARED/MULCHED VEGETATION FOR EITHER TEMPORARY OR PERMANENT STABILISATION OF DISTURBED AREAS.

J. SITE INSPECTION, MONITORING AND MAINTENANCE

1) REGULAR SITE INSPECTIONS ARE TO BE CONDUCTED BY THE SITE ENVIRONMENT MANAGER (OR THEIR REPRESENTATIVE):
   - AT LEAST WEEKLY DURING NORMAL CONSTRUCTION HOURS; AND
   - PRIOR TO FORECAST RAINFALL (SEE ABOVE); AND
   - DAILY DURING RAIN EVENTS (IF SAFE TO DO SO); AND
   - WITHIN 24 HOURS OF THE CESSATION OF A RAIN EVENT THAT CAUSES RUNOFF.

2) MINIMUM MONTHLY AUDITS / SITE INSPECTIONS ARE ALSO TO BE CONDUCTED BY A CPESC TO ENSURE ALL OF THE REQUIRED OUTCOMES AND WATER QUALITY TARGETS ARE BEING MET AND WHERE NECESSARY PROVIDE ADVICE AND MODIFICATIONS TO THIS PLAN TO ENSURE ONGOING COMPLIANCE.

3) FORTNIGHTLY INSPECTIONS TO BE UNDERTAKEN BY THE ENVIRONMENTAL REPRESENTATIVE.

4) RECORDS OF THE SITE INSPECTIONS/AUDITS ARE TO BE KEPT FOR THE DURATION OF CONSTRUCTION AND FOR A MINIMUM OF 12 MONTHS FOLLOWING THE COMPLETION OF CONSTRUCTION WORKS.

5) THE CONTRACTOR WILL AS A MINIMUM CONDUCT EACH INSPECTION IN LINE WITH THE FOLLOWING
   a. RECORD TYPE OF DEVICE/CONTROL MEASURE BEING INSPECTED AND ITS LOCATION;
   b. RECORD THE CONDITION OF EVERY CONTROL MEASURE;
   c. RECORD MAINTENANCE REQUIREMENTS FOR EVERY CONTROL DEVICE;
   d. RECORD SEDIMENT VOLUMES REMOVED FROM SEDIMENT TRAPPING DEVICES;
   e. RECORD DETAILS OF SEDIMENT BASIN TREATMENT, FLOCCULANT DOSAGE AND CLEANOUT;
   f. RECORD SEDIMENT DISPOSAL PROCEDURES AND LOCATION.

6) WEATHER CONDITIONS WILL BE MONITORED ONSITE AND DAILY RAINFALL WILL BE RECORDED. A RAINFALL GAUGE WILL BE INSTALLED AT THE SITE COMPOUND.

7) SITE SPECIFIC PROGRESSIVE ESCPS WILL BE PREPARED AND / OR UPDATED AS REQUIRED.

8) SEDIMENT OR ROCKS TRACKED FROM THE SITE WILL BE REMOVED FROM PUBLIC ROADS AS SOON AS POSSIBLE (E.G. WITH STREET SWEEPERS).

9) AFTER RAINFALL, SEDIMENT ACCUMULATED IN TRAPPING DEVICES (E.G. BASIN, SEDIMENT FENCE) WILL BE REMOVED TO A SECURE LOCATION WHERE IT CAN'T WASH OR BLOW OFFSITE (PREFERABLY TO AN ACTIVE STOCKPILE).

10) SAFE STORAGE AREAS FOR WASTES, FUELS, EXCESS CONCRETE AND OTHER POTENTIAL CONTAMINANTS ARE TO BE DELINEATED BY THE SITE MANAGER.

11) ADEQUATE SUPPLIES OF EROSION CONTROL MEASURES (E.G. GEOFABRIC ROLLS, JUTE MATTING, HYDRAULIC SOIL BINDERS) ARE TO BE MAINTAINED IN THE SITE COMPOUND FOR RAPID DEPLOYMENT AS REQUIRED.

12) WATER TREATMENT CHEMICAL(S) AND EQUIPMENT ARE TO BE MAINTAINED ONSITE.

13) REPAIRS AND MAINTENANCE OF ALL DEVICES AND MEASURES INCLUDING DIVERSION CHANNELS SHALL BE UNDERTAKEN AS REQUIRED, ENSURING ALL MEASURES ARE FULLY FUNCTIONAL AT ALL TIMES.

14) ENSURE SEDIMENT LADEN WATER HAS NOT BEEN DIVERTED AROUND DEVICES.

15) REPAIR SCOUR DAMAGE TO SEDIMENT CONTROL MEASURES AFTER RAINFALL EVENTS AND REINSTATE DEVICES AS NECESSARY.

16) SEDIMENT FENCES WILL REQUIRE CLEANING WHEN SEDIMENT REACHES 300MM DEPTH OR ONE-HALF THE HEIGHT OF THE FILTER FABRIC AND ALL OTHER SEDIMENT TRAPS WILL REQUIRE CLEANING OUT WHEN 30% OF DESIGN CAPACITY IS REACHED.

17) ALL INLET AND GULLY TRAPS TO BE CLEANED NOT HOSED AFTER EVERY RAINFALL EVENT, (1>5mm) OR AT LEAST ON A WEEKLY BASIS.

18) SEDIMENT REMOVED FROM ANY TRAPPING DEVICE TO BE RELOCATED, ENSURING FURTHER POLLUTION TO DOWNSTREAM ENVIRONMENTS WILL NOT OCCUR.

19) ALL SEEDING, HYDROSEEDING AND TURFING REQUIRES REGULAR WATERING, UNTIL EFFECTIVE COVER ESTABLISHED AND PLANTS ARE GROWING VIGOROUSLY. WATERING SHOULD VARY DEPENDING ON WEATHER AND SOIL CONDITIONS.

20) WATERING SHOULD START IMMEDIATELY AFTER PLANTING AND SHOULD COMPLY WITH THE FOLLOWING AS A MINIMUM:

WEEK 1:	3 WATERINGS / WEEK
WEEK 2-6:	2 WATERINGS / WEEK
WEEK 7-12:	1 WATERING / WEEK

21) EXCESSIVE VEGETATION GROWTH WILL BE CONTROLLED THROUGH MOWING OR SLASHING.

22) IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE INSPECTION, MAINTENANCE AND TESTING OF DEVICES IS UNDERTAKEN ON SITE.

23) THE CONTRACTOR TO KEEP DETAILED AND LEGIBLE RECORDS OF ALL INSPECTION AND MAINTENANCE UNDERTAKEN ON THE EROSION AND SEDIMENT CONTROL DEVICES.

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

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Client
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OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

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FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C3004

Issue
01

24) ALL SITE WASTE INCLUDING GENERAL RUBBISH TO BE DISPOSED OF IN AN ENVIRONMENTALLY RESPONSIBLE MANNER IN ACCORDANCE WITH THE POEO (WASTE) REGULATION 2014.

25) THE CONTRACTOR SHALL CONSTRUCT AND IMPLEMENT ADDITIONAL MEASURES AS NECESSARY TO ENSURE PROTECTION OF DOWNSTREAM ENVIRONMENTS.

26) EROSION AND SEDIMENT CONTROLS SHALL BE MAINTAINED UNTIL THE SITE IS STABILISED TO ACHIEVE THE SURFACE PROTECTION FACTORS LISTED IN TABLE 2. INSPECTION BY THE PROJECT APPOINTED CPESC AND THE PROJECT APPOINTED ENVIRONMENTAL REPRESENTATIVE WILL BE UNDERTAKE TO VERIFY THE STABILISATION OF THE SITE PRIOR TO REMOVAL OF EROSION AND SEDIMENT CONTROLS.

K. SEDIMENT BASINS

1) SEDIMENT BASIN LOCATIONS AND SIZING ARE PRESENTED ON THE PLANS.

2) SEDIMENT BASINS WILL BE CONSTRUCTED AND OPERATIONAL BEFORE ANY DISTURBANCE OCCURS IN THE CATCHMENT UPSTREAM OF THE BASIN.

3) ADDITIONAL VOLUME CAN BE PROVIDED IN SEDIMENT BASINS FOR STORING WATER IF SO DESIRED (I.E. THEY CAN BE MADE BIGGER THAN IS REQUIRED BY THIS ESCP). MARKERS WILL NEED TO BE INSTALLED WITHIN BASINS TO INDICATE THE VARIOUS VOLUMES.

4) SEDIMENT BASINS ARE TO ACHIEVE AT LEAST 3:1 LENGTH:WIDTH FROM THEIR INLET(S) TO THEIR SPILLWAY. IF THIS IS NOT ACHIEVED THROUGH THE NATURAL SHAPE OF THE BASIN, A BAFFLE IS TO BE INCLUDED.

5) SEDIMENT BASIN FLOORS AND WALLS ARE TO BE WELL COMPACTED TO MINIMISE INFILTRATION TO ENGINEERING DETAIL.

6) SEDIMENT BASIN SPILLWAY MATERIAL SHALL BE CLASSIFIED AS SUITABLE TO ACHIEVE MINIMUM COMPACTION FOR STRUCTURAL STABILITY.

7) SEDIMENT BASIN WALLS, INLETS AND SPILLWAY OUTLETS ARE TO BE GYPSUM TREATED AT A RATE OF 1.5kg/m^2 TO PROMOTE SEDIMENT SETTLING AND MINIMISE DISPERSION.

8) BASIN INLETS AND SPILLWAYS SHALL INCLUDE SUITABLE SLOPE STABILISATION TO MINIMISE RISK OF LOCAL SCOUR AND EROSION (E.G., ROCK RIPRAP OR GEOTEXTILE). SPILLWAYS SHALL BE FREE OF DEPRESSIONS AND SHALL BE SMOOTH AND UNIFORM TO ENSURE EVEN DEPTH OF FLOW.

9) WHERE GEOTEXTILE MATERIALS ARE USED, THE MATERIAL SHALL BE OVERLAPPED BY A MINIMUM 300MM AND ANCHORED TO PREVENT SLIPPAGE AND UNDERCUTTING ON THE SLOPE.

10) WITHIN 5 CALENDAR DAYS OF THE CONCLUSION OF ANY RAINFALL EVENT THAT CAUSES RUNOFF, THE SEDIMENT BASINS ARE TO BE EMPTY, READY FOR THE NEXT RAINFALL EVENT. THIS MIGHT INCLUDE TESTING WATER, TREATING (E.G. FLOCCULATING), DE-WATERING AND DE-SILTING BASINS. SEE THE 'DIRTY WATER AND DISCHARGE REQUIREMENTS' NOTES BELOW REGARDING DE-WATERING. IF RAINFALL (CAUSING RUNOFF) OCCURS AGAIN WITHIN 5 DAYS OF THE PREVIOUS RAIN EVENT, THE 5-DAY REQUIREMENT RE-SETS.

11) DIRTY WATER ACCUMULATING IN SEDIMENT BASINS CAN BE USED ONSITE FOR DUST SUPPRESSION OR CONSTRUCTION PURPOSES. IF THIS OCCURS IT DOES NOT NEED TO BE TREATED TO THE STANDARD REQUIRED FOR DISCHARGE. NOTE THAT THE 5-DAY MAINTENANCE REQUIREMENT FOR BASINS TO BE EMPTIED STILL APPLIES.

12) THE CONTRACTOR SHALL KEEP DETAILED AND ACCURATE RECORDS OF THE MONITORING, TREATMENT, TESTING AND MAINTENANCE OF THE SEDIMENT BASIN INCLUDING RECORDED RAINFALL VOLUME AND FLOCCULATING AGENTS USED.

13) ALL CHEMICAL DOSING AND WATER TESTING TO BE UNDERTAKEN BY A SUITABLY QUALIFIED PERSON.

14) ALL LABORATORY TESTING TO BE UNDERTAKEN BY A NATA ACCREDITED LABORATORY.

15) ALL WATER PUMPED FROM THE SEDIMENT BASIN SHALL BE TESTED FOR ENVIRONMENTAL COMPLIANCE AGAINST THE RELEASE CRITERIA IN THE TABLE BELOW (AS A MINIMUM), UNLESS ALTERNATIVE (MORE STRINGENT) STANDARDS ARE SPECIFIED BY THE LOCAL AUTHORITY PRIOR TO RELEASE.

PARAMETER	RELEASE CRITERIA
TOTAL SUSPENDED SOLIDS	50 mg/l MAX
pH	WITHIN THE RANGE OF 6.5 – 8.5
VISUAL AMENITY	NO VISIBLE PLUME NO VISIBLE OIL OR GREASE

16) WATER TESTING TO BE UNDERTAKEN USING EITHER A HANDHELD PH/TURBIDITY METER OR SAMPLES COLLECTED FOR LABORATORY TESTING PRIOR TO ANY MANUAL BASIN DEWATERING.

17) THE TREATED BASIN SHALL BE DEWATERED WITH A PUMP SYSTEM WITH A FLOATING INLET TO ENSURE SETTLED SEDIMENT IS NOT ENTRAINED AND DISCHARGED.

18) WATER DISCHARGED FROM THE SITE SHALL BE COMPLIANT WITH THE RELEASE CRITERIA LISTED ABOVE AT THE POINT OF DISCHARGE NOMINATED ON THE PLANS. WATER DISCHARGE IS TO BE UNDERTAKEN AT NON-EROSIVE VELOCITIES WITH ADEQUATE DIFFUSERS (E.G., MODULAR SEDIMENT TRAPS) AND SHALL ENSURE NO LOCAL FLOODING OCCURS WITHIN THE SITE OR IN THE VICINITY OF THE SITE.

19) DIRTY WATER ACCUMULATING IN EXCAVATIONS/CUT SECTIONS CAN BE PUMPED OR CARTED TO A SEDIMENT BASIN PROVIDING ADEQUATE CAPACITY IS AVAILABLE AND THE BASIN WON'T OVERFLOW AS A RESULT. NOTE THAT THE 5-DAY MAINTENANCE REQUIREMENT FOR BASINS TO BE EMPTIED STILL APPLIES

20) SEDIMENT BASINS WILL REQUIRE DEWATERING AND SEDIMENT CLEANOUT WHENEVER SEDIMENT ACCUMULATES TO MORE THAN 70% OF THE SEDIMENT STORAGE VOLUME. SEDIMENT REMOVED FROM THE BASIN CAN BE TAKEN TO A STOCKPILE AREA, BURIED ONSITE OR USED AS GENERAL FILL. ENSURE SEDIMENT REMOVED FROM BASINS IS NOT PLACED WHERE IT COULD WASH, BLOW OR FALL OFFSITE.

21) A MARKER PEG (OR SIMILAR) IS TO BE INCLUDED IN EVERY BASIN SHOWING THE LEVEL OF THE SEDIMENT STORAGE VOLUME.

22) CAPTURED SEDIMENT WILL BE DISPOSED OF IN AN ENVIRONMENTALLY RESPONSIBLE MANNER AS TO NOT CAUSE FURTHER CONTAMINATION OR DOWNSTREAM POLLUTION. SEDIMENT SHOULD NOT BE DISPOSED OF IN CONCENTRATED FLOWS, WHERE IT CAN BE RE-ENTRAINED OR WHERE THE RECEIVING WATER HAS A PH OF < 5.5.

23) THE BASIN AND ALL OTHER CONTROL DEVICES WILL BE MAINTAINED IN AN OPERATIONAL STATE UNTIL SITE STABILISED.

24) REPAIR ANY SCOUR DAMAGE TO THE SEDIMENT BASIN BATTERS AND EMERGENCY SPILLWAY FOLLOWING RAINFALL EVENTS.

25) SEDIMENT BASIN SHOULD NOT BE CONSTRUCTED WITH SMOOTH INTERNAL SLOPES AND BASIN BATTERS SHOULD NOT BE STEEPER THAN 2(H):1(V).

26) BASINS SHOULD BE APPROPRIATELY FENCED AND MARKED BY WARNING SIGNS IF UNSUPERVISED PUBLIC ACCESS IS LIKELY AND PUBLIC SAFETY IS AT RISK.

27) THE SEDIMENT BASINS ARE TO INCLUDE OUTLETS (WEIR OVERFLOW/SPILLWAY) SIZED TO HAVE A CAPACITY TO PASS THE 100 YEAR PEAK FLOW. OUTLETS ARE TO BE ONTO STABLE LANDS OR INTO A STABLE WATERWAY.

28) ALL INLET CHUTES TO BE FORMED FROM DUMPED ROCK PLACED OVER GEOTEXTILE LINER (BIDIM A34 OR EQUIVALENT). ROCK USED TO BE CRUSHED, CLEAN, HARD DURABLE AND MINIMUM AVERAGE SIZE (d_{50}) =150mm

29) PERMEABLE INTERNAL BAFFLES CAN ALSO BE USED TO ENSURE UNIFORM FLOW THROUGH A SEDIMENT BASIN. THESE PERMEABLE BAFFLES CAN ASSIST PERFORMANCE OF ALL BASIN TYPES EVEN IN STANDARD BASIN SHAPES. PERMEABLE IN-LINE BAFFLES CAN TYPICALLY BE CONSTRUCTED USING A FIXED OR FLOATING SYSTEM. FIXED SYSTEMS WILL TYPICALLY INCORPORATE POSTS MOUNTED IN THE FLOOR AND WALL OF THE BASINS WITH A MESH ATTACHED TO THE POSTS. THE HEIGHT OF THE POSTS AND MESH SHOULD BE AT APPROXIMATELY THE SAME HEIGHT AS THE BASIN SPILLWAY TO AVOID A CONCENTRATED FLOW ON THE UPPER LAYER OF THE WATER COLUMN ABOVE THE BAFFLE. AN ALTERNATIVE OPTION IS TO USE A BAFFLE INCORPORATING FLOATS TO KEEP THE MESH ON THE TOP OF THE WATER COLUMN AND WEIGHTING TO FIX THE BAFFLE TO THE FLOOR OF THE BASIN. THIS CAN GENERALLY BE ACHIEVED BY UTILISING PROPRIETARY SILT CURTAINS.

30) A CRITICAL COMPONENT OF IN-LINE PERMEABLE BAFFLES IS THE OPEN AREA OF THE PRODUCT. TOO TIGHT A WEAVE AND THE BAFFLES WILL ACTUALLY HINDER PERFORMANCE, WITH TOO OPEN A WEAVE PROVIDING LITTLE BENEFIT. A 75% WEAVE SHADE CLOTH (OR EQUIVALENT) OPEN AREA IS RECOMMENDED FOR IN-LINE PERMEABLE BAFFLES. NOTE THIS IS SIGNIFICANTLY MORE OPEN THAN TYPICAL SILT CURTAINS USED ON CONSTRUCTION SITES.

L. DRAIN / BUND STABILISATION AND LINING

1) SOIL PREPARATION PRIOR TO LINING DRAINS:
    a. GYPSUM SHALLOW/LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 500g/m^2 (E.G., RIP IN USING GRADER OR EXCAVATOR BUCKET TINES (TEETH).
    b. PLACE TOPSOIL OVER ENTIRE DRAIN SURFACE TO A MINIMUM DEPTH OF 75mm. (SOIL PREPARATION ALSO APPLIES TO TEMPORARY DRAINS IN PLACE FOR <6 MONTHS)

2) DRAIN LINING:
    a. SEEDING + VITAL P47 (OR VITAL STONEWALL) + JUTE MATTING:
    b. (VITAL P47/ STONEWALL TO BE APLLIED AT A MAXIMUM DILUTION OF 1:10 (VITAL:WATER)
    c. SEEDING TO BE A COMBINATION OF A COVER CROP (E.G., RYE GRASS FOR WINTER MONTHS / JAPANESE MILLET FOR SUMMER MONTHS) AND A SUITABLE PERRENNIAL (LONG TERM) LOCAL NATIVE GRASS MIX.

3) WATERING:
    a. REGULAR WATERING REQUIRED WHERE RAINFALL IS INSUFFICIENT.
    b. ENSURE WATER IS APPLIED GENTLY (NOT WITH A PRESSURE SPRAY).
    c. ENSURE OVERWATERING DOES NOT OCCUR AND IS MINIMISED TO ONLY WHAT IS NECESSARY FOR PLANTS TO THRIVE.

4) LINING OF TEMPORARY DRAINS (IN PLACE FOR <6 MONTHS) – LINE WITH GEOTEXTILE (BIDIM A24 MIN. OR EQUIVALENT).

M. DIRTY WATER TREATMENT AND DISCHARGE REQUIREMENTS

THE DEVELOPMENT MUST COMPLY WITH SECTION 120 OF THE PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997 (POEO ACT), WHICH PROHIBITS THE POLLUTION OF WATERS (EXCEPT AS EXPRESSLY PROVIDED FOR IN AN ENVIRONMENTAL PROTECTION LICENCE). THE FOLLOWING REQUIREMENTS ARE TO BE ADHERED TO:

1) WATER ACCUMULATING IN SEDIMENT BASINS, TRAPS, EXCAVATIONS OR IN ANY OTHER LOW POINTS ONSITE CAN EITHER BE:
    a. RE-USED FOR DUST SUPPRESSION OR CONSTRUCTION PURPOSES; OR
    b. TREATED (IF REQUIRED) AND TESTED IN SITU, THEN RELEASED OFF SITE ONCE IT MEETS THE REQUIRED WATER QUALITY DISCHARGE CRITERIA [SEE BELOW); OR
    c. PUMPED INTO A TANK, TRUCK OR OTHER HOLDING AREA FOR LATER TREATMENT.

2) ANY ACTIVE DISCHARGE OF WATER FROM THE PROJECT (I.E. WHERE WATER IS MOVED OFFSITE VIA DIRECT ACTION SUCH AS PUMPING RATHER THAN FLOWING OFF THE PROJECT AS A RESULT OF HEAVY RAINFALL) IS TO ACHIEVE:
    a. 50 mg/L OR LESS TOTAL SUSPENDED SOLIDS (TSS); AND
    b. PH BETWEEN 6.5 AND 8.5; AND
    c. NO VISIBLE TRACE OF OIL AND GREASE.

3) ADEQUATE WATER QUALITY CAN BE ACHIEVED BY USING GYPSUM AT A RATE OF APPROXIMATELY 30 KG/100 m3 OF STORMWATER. ALTERNATIVE FLOCCULATING AGENTS CAN ONLY BE USED IF THEY DO NOT CAUSE ENVIRONMENTAL HARM WHEN DISCHARGED. REFER TO MANUFACTURERS GUIDELINES FOR DOSAGE DETAILS.

4) SPREAD THE TREATMENT AGENT EVENLY OVER THE ENTIRE POND SURFACE FOR PROPER TREATMENT OF WATER.

5) THESE DE-WATERING REQUIREMENTS APPLY TO DIRTY WATER ACCUMULATING IN ANY SORT OF EXCAVATION, SUMP, OR OTHER PONDED WATER BODY ON THE PROJECT.

6) IF THE WATER IS GOING TO BE USED WITHIN THE CONSTRUCTION SITE FOR DUST-SUPPRESSION OR CONSTRUCTION PURPOSES AND WILL DRAIN BACK INTO THE SEDIMENT CAPTURE SYSTEM IT DOES NOT REQUIRE TREATMENT.

N. RAINFALL PREPARATION PROCEDURE

1) THE WEATHER FORECAST IS TO BE MONITORED REGULARLY (AT LEAST DAILY AND HOURLY WHEN RAINFALL IS IMMINENT) BY THE SITE ENVIRONMENTAL MANAGER (OR THEIR REPRESENTATIVE).

2) PRIOR TO FORECAST RAINFALL (> 70% CHANCE OF 5MM OR MORE OVER 24 HOURS) AND SITE CLOSURE OF MORE THAN 2 DAYS, THE FOLLOWING WILL OCCUR:
    a. THE SITE ENVIRONMENT MANAGER (OR THEIR REPRESENTATIVE) IS TO INSPECT THE CONDITION OF ALL EROSION AND SEDIMENT CONTROLS AND ACTION ANY URGENT REPAIR, MAINTENANCE OR IMPROVEMENT. THEY ARE TO KEEP A RECORD OF ALL FINDINGS (INCLUDING DETAILS OF ACTIONS AND THEIR CLOSE OUTS).
    b. SLOPE BREAKS / CONTOUR BERMS WILL BE PUSHED UP OR CUT IN ACROSS LARGE, EXPOSED AREAS TO SLOW DOWN FLOWS AND MINIMISE EROSION. SLOPE LENGTHS ARE TO BE RESTRICTED TO 40M INTERVALS ACROSS ALL EXPOSED SURFACES PRIOR TO AND DURING RAINFALL. DIVERSION BUNDS/DRAINS, LOW FLOW EARTH BANKS (STANDARD DRAWING SD 5-5) OR SANDBAGS / EQUIVALENT SHOULD BE INSTALLED PRIOR TO RAINFALL EVENT TO ACHIEVE THIS WHERE REQUIRED. NOTE THAT SLOPE BREAKS / CONTOUR BERMS ARE NOT REQUIRED TO BE IN PLACE DURING ACTIVE CONSTRUCTION WORKS WHEN RAINFALL IS NOT FORECAST / OCCURRING. AS WORKS PROGRESS LOCATIONS FOR SLOPES BREAKS WILL CHANGE AND THESE ARE TO BE UPDATED ON PROGRESSIVE ESCPS.
    c. TEMPORARY DIVERSIONS AROUND CULVERT WORKS ARE TO BE INSTALLED IN THE LOCATIONS SHOWN ON THE PLANS TO TAKE UPSLOPE CLEAN WATER FLOWS AROUND / THROUGH THE WORKS - REFER TO THE PLANS AND TO DETAIL 1 FOR SPECIFIC INSTRUCTIONS.
    d. ALL EXPOSED SURFACES OF HIGH RISK AREAS (I.E. STEEP SLOPES (5%), BATTERS, SURFACES NOT DRAINING TO SEDIMENT BASINS AND WORKS IN / NEAR WATERWAYS AND FLOW AREAS) WILL BE STABILISED WITH TEMPORARY SPRAY-ON SOIL STABILISING AGENTS (LIKE VITAL P47/STONEWALL), GEOTEXTILE OR BLACK PLASTIC (SECURELY PINNED OR EQUIVALENT).
    e. CHECK DAMS ARE TO BE PROVIDED WITHIN ALL DRAINAGE DEVICES INCLUDING ROADSIDE TABLE DRAINS AT 40m INTERVALS.

3) PRIOR TO FORECAST HIGH RAINFALL (> 70% CHANCE OF 10mm OR MORE OVER 24 HOURS) AND SITE CLOSURE OF MORE THAN 2 DAYS, THE FOLLOWING WILL OCCUR IN ADDITION TO THE ABOVE:
    a. WINDROWS / BUNDS ARE TO BE PROVIDED ALONG THE TOP EDGE OF FILL
    b. BATTERS TO PROTECT FILL BATTERS. LOCATIONS AND DETAILS ARE TO BE CONFIRMED ONSITE AS WORKS PROGRESS AND DOCUMENTED ON SITE SPECIFIC PROGRESSIVE ESCPS. THEY ARE NOT REQUIRED FOR INITIAL STRIPPING WORKS. THEY ARE TO BE FORMED AS COMPACTED EARTH BERMS (MIN. 600MM HIGH) ALONG THE TOP EDGE OF FILL PLATFORMS PRIOR TO RAINFALL AND SITE CLOSURE (2 DAYS). THEY ARE NOT REQUIRED DURING DRY WEATHER. ADDITIONAL

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
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Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3005
Issue 01

WINDROWS AND GEOFABRIC LINED BATTER CHUTES AT REGULAR INTERVALS MAY NEED TO BE PROVIDED AS THE WORKS PROGRESS

c. SEDIMENT BASIN AND SEDIMENT TRAP INLET POINTS WILL BE PRELOADED WITH GYPSUM.

d. MAJOR DIRTY WATER DIVERSION DRAINS WILL HAVE GYPSUM, BIOPOLYMER GEL SOCKS (OR EQUIVALENT) PLACED WITHIN THEM OR REPLENISHED AT 80M INTERVALS (IF NOT ALREADY IN PLACE).

O. SALINITY AND SODICITY CONSIDERATIONS

TO MINIMISE IMPACTS ASSOCIATE WITH SALINE AND SODIC (DISPERSIVE) SOILS DURING THE CONSTRUCTION PHASE OF WORKS THE FOLLOWING MEASURES ARE TO BE IMPLEMENTED:

1) TOPSOIL IS TO BE TESTED PRIOR TO REVEGETATION TO CONFIRM TREATMENT REQUIREMENTS.
2) ENSURE TOPSOIL IS SPREAD OVER AREAS TO BE REVEGETATED TO AT LEAST 75MM.
3) WATERING OF NEWLY REVEGETATED AREAS IS TO BE MINIMISED TO ONLY WHAT IS NECESSARY FOR PLANTS TO THRIVE.
4) AVOID OVER-WATERING WHICH COULD EXACERBATE CATCHMENT SALINITY.
5) THE FLOOR AND WALLS OF EACH SEDIMENT BASIN IS TO BE WELL COMPACTED TO MINIMISE INFILTRATION.
6) SWALE / DIVERSION DRAINS ARE TO BE GYPSUM-DUSTED AND LINED WITH MATTING AS NOTED TO PROMOTE FLOW AND REDUCE PONDING AND EROSION.
7) AVOID PONDING WATER ACROSS THE SITE IN AREAS WHERE SHALE OR CLAY FILL MATERIALS HAVE BEEN PLACED.
8) REHABILITATION AND REVEGETATION OF COMPLETED EARTHWORKS IS TO BE UNDERTAKEN PROGRESSIVELY AS EACH AREA IS FINISHED.

THE ABOVE LIST OUTLINES GENERAL STRATEGIES FOR MINIMISING THE POTENTIAL SALINITY RISK DURING CONSTRUCTION. REFER TO THE PROJECT'S SALINITY MANAGEMENT PLAN FOR DETAILED RECOMMENDATIONS.

P. OTHER MATTERS

1) ACCEPTABLE RECEPTORS AND DISPOSAL PRACTICES WILL BE USED FOR CONCRETE AND MORTAR SLURRIES, PAINTS, ACID WASHERS, LITTER AND GENERAL WASTE MATERIALS.
2) ANY EXISTING TREES WHICH ARE NOT REQUIRED OR APPROVED TO BE CLEARED FOR THE WORKS AND/OR FORM PART OF THE FINAL LANDSCAPING PLAN SHOULD BE PROTECTED FROM CONSTRUCTION ACTIVITIES BY:
    a. PROTECTING THEM WITH BARRIER FENCING OR SIMILAR MATERIALS INSTALLED OUTSIDE THEIR DRIP LINE.
    b. ENSURING NOTHING IS NAILED TO THEM.
    c. PROHIBITING PAVING, GRADING, SEDIMENT WASH OR PLACING OF STOCKPILES WITHIN DRIP LINE.
3) ALL VEHICLE AND EQUIPMENT WASHING SHOULD BE CONTAINED IN SPECIFIC BUNDED AREAS, DISCONNECTED FROM CONCENTRATED FLOW PATHS AND THE STORMWATER SYSTEM.
4) ANY NECESSARY VEHICLE OR EQUIPMENT REFUELING SHOULD BE UNDERTAKEN AWAY FROM CONCENTRATED FLOW PATHS AND PREFERABLY WITHIN A BUNDED AREA.
5) ANY ONSITE FUEL STORAGE AREAS SHOULD BE COVERED AND BUNDED.

Q. LIMITATIONS TO ACCESS DURING CONSTRUCTION

LAND USE	LIMITATION	COMMENT
CONSTRUCTION AREAS	LIMITED TO 5 (PREFERABLE 2) METRES FROM THE EDGE OF ANY ESSENTIAL CONSTRUCTION ACTIVITY AS SHOWN ON THE ENGINEERING PLANS.	ALL SITE WORKERS SHOULD CLEARLY RECOGNISE THESE AREAS THAT, WHERE APPROPRIATE, ARE IDENTIFIED WITH BARRIER FENCING (UPSLOPE) AND SEDIMENT FENCING (DOWNSLOPE) OR SIMILAR MATERIALS.
ACCESS AREAS	LIMITED TO A MAXIMUM WIDTH OF 5 METRES	THE SITE MANAGER WILL DETERMINE AND MARK THE LOCATION OF THESE ZONES ON SITE. THEY CAN VARY IN POSITION SO AS TO BE BEST CONSERVE EXISTING VEGETATION AND PROTECT DOWNSTREAM AREAS WHILE BEING CONSIDERATE OF THE NEEDS OF EFFIICIENT WORKS ACTIVITIES. ALL SITE WORKERS WILL CLEARLY RECOGNISE THESE BOUNDARIES.
ALL LANDS (INCLUDING WATERWAYS AND STOCKPILES	ENTRY PROHIBITED EXCEPT FOR ESSENTIAL MANAGEMENT WORKS	THINNING OF GROWTH MAY BE NECESSARY (E.G., FOR FIRE RISK REDUCTION OR WEED REMOVAL). ALL THINNING ACTIVITIES MUST BE APPROVED PRIOR TO COMMENCEMENT.

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

Client
ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
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Status
FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C3006
Issue
01

TABLE 1 – STABILISATION REQUIREMENTS AND TREATMENT METHODS – DURING CONSTRUCTION (TEMPORARY STABILISATION)

LAND TYPE	STABILISATION REQUIREMENT	TIMEFRAME	TREATMENT METHODS / PRODUCTS	REMARKS
WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS	C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER)	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.	LOW FLOW – JUTE MESH, SEEDING AND SOIL BINDER (I.E., VITAL P47 / STONEWALL OR EQUIVALENT)	COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 15 t/ha) – TESTING TO CONFIRM TREATMENT RATES. PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM. COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING INSTALL MATTING IN ACCORDANCE WITH SD 5-7. SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT. VITAL DILUTION RATE = 1:10 (VITAL:WATER). APPLICATION RATE = 1L/m^2 OF DILUTED VITAL MIXTURE. RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			LOW TO MODERATE FLOW – JUTE MATTING (350GSM) AND SEEDING (OR EQUIVALENT)	
			MODERATE FLOW – TURF REINFORCEMENT MATTING (TRM)	
			HIGH FLOW – ROCK LINING	SAME AS ABOVE, PLUS: INSTALL ROCK ARMORING TO THE DEPTH AND SIZE AS SPECIFIED ON THE CIVIL DRAWINGS
HIGH RISK AREAS SOIL LOSS CLASS 6 OR ABOVE LANDS (WHERE APPLICABLE)	C-FACTOR = 0.1 (60% GRASS COVER OR EQUIVALENT GROUND COVER)	APPLIES PRIOR TO RAINFALL AND AFTER 10 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)	SOIL BINDER (i.e.: VITAL P47/STONEWALL OR EQUIVALENT)	STABLISE ALL EXPOSED SOILS BY SPARYING SURFACES WITH VITAL P47/STORMWATER OR EQUIVALENT VITAL DILUTION RATE = 1:10 (VITAL MIXTURE). -RE-APPLY / MAINTAIN AS NECCESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT	COVER ALL EXPOSED SOILS. RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
ALL LANDS (INCLUDING WATERWAYS AND STOCKPILES)	C-FACTOR = 0.15 (50% GRASS COVER OR EQUIVALENT GROUND COVER)	APPLIES PRIOR TO RAINFALL AND AFTER 20 WORKING DAYS OF INACTIVITY (EVEN THOUGH WORKS MIGHT CONTINUE LATER)	SOIL BINDER (i.e.: VITAL P47/STONEWALL OR EQUIVALENT)	STABLISE ALL EXPOSED SOILS BY SPARYING SURFACES WITH VITAL P47/STORMWATER OR EQUIVALENT VITAL DILUTION RATE = 1:10 (VITAL MIXTURE). RE-APPLY / MAINTAIN AS NECCESSARY (APPROX. EVERY 3-6 MONTHS WITHOUT SUITABLE VEGETATION COVERAGE) TO ENSURE THE REQUIRED COVER IS PROVIDED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT	COVER ALL EXPOSED SOILS. RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.

TABLE 2 – STABILISATION AND TREATMENT METHODS – POST CONSTRUCTION (FINAL STABILISATION)

LAND TYPE	STABILISATION REQUIREMENT	TIMEFRAME	TREATMENT METHODS / PRODUCTS	REMARKS
WATERWAYS, DRAINAGE LINES AND CONCENTRATED FLOW AREAS	C-FACTOR = 0.05 (70% GRASS COVER OR EQUIVALENT GROUND COVER)	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION AND BEFORE THEY ARE ALLOWED TO CARRY CONCENTRATED FLOWS.	LOW FLOW – JUTE MESH, SEEDING AND SOIL BINDER (I.E., VITAL P47 / STONEWALL OR EQUIVALENT)	COMPLETE SUBSOIL TREATMENT (E.G. GYPSUM LIGHTLY RIPPED INTO SUBGRADE AT A RATE OF 15 t/ha) – TESTING TO CONFIRM TREATMENT RATES. PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM. COMPLETE ANY FERTILISATION AND SEEDING BEFORE LAYING THE MATTING INSTALL MATTING IN ACCORDANCE WITH SD 5-7. SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT. VITAL DILUTION RATE = 1:10 (VITAL:WATER). APPLICATION RATE = 1L/m^2 OF DILUTED VITAL MIXTURE. RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			LOW TO MODERATE FLOW – JUTE MATTING (350GSM) AND SEEDING (OR EQUIVALENT)	
			MODERATE FLOW – TURF REINFORCEMENT MATTING (TRM)	
			HIGH FLOW – ROCK LINING	SAME AS ABOVE, PLUS: INSTALL ROCK ARMORING TO THE DEPTH AND SIZE AS SPECIFIED ON THE CIVIL DRAWINGS
STOCKPILES	C-FACTOR = 0.10 (60% GRASS COVER OR EQUIVALENT GROUND COVER)	APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION	SEEDING AND SOIL BINDER (i.e. VITAL P47/STONEWALL OR EQUIVALENT)	APPLY SEED TO ALL STOCKPILE SURFACES (NOTE: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT). SPRAY ALL STOCKPILE SURFACES WITH VITAL P47/STONEWALL OR EQUIVALENT[1]. VITAL DILUTION RATE = 1L / m^2 OF DILUTED VITAL MIXTURE. RE-APPLY/MAINTAIN AS NECCESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			GEOTEXTILE, JUTE MATTING, BLACK PLASTIC (SECURELY PINNED) OR EQUIVALENT	COVER ALL EXPOSED SOILS. RE-APPLY / MAINTAIN AS NECCESSARY TO ENSURE THE REQUIRED COVER IS PROVIDED.
NERAL SURFACES	C-FACTOR = 0.10 / 0.05 (60% / 70% GRASS COVER OR EQUIVALENT GROUND COVER)	C-FACTOR = 0.1 APPLIES AFTER 10 WORKING DAYS FROM COMPLETION OF FORMATION C-FACTOR = 0.05 APPLIES WITHIN A FURTHER 60 DAYS	TOPSOIL, SEEDING AND SOIL BINDER (VITAL P47/STONEWALL OR EQUIVALENT	-REFER TO SD 7-1 -COMPLETE SUBSOIL TREATMENT (i.e. GYPSUM LIGHTLY RIPPED INTO SURGRADE AT A RATE OF 15 TONNES/ha). TESTING TO CONFIRM TREATMENT RATES. - PLACE TOPSOIL TO A DEPTH OF AT LEAST 75MM. - APPLY ANY FERTILISERS REQUIRED. - APPLY SEED TO ALL SURFACES (Note: SEEDING MAY NOT BE REQUIRED IF EXISTING SEEDBED IS PRESENT. - INSTALL MATTING IN ACCORDANCE WITH SD 5-7. - SPRAY ALL SURFACES WITH VITAL P47/STONEWALL OR EQIVALENT[1]. - VITAL DILUTION RATE = 1:10 (VITAL:WATER). - APPLICATION RATE = 1L / 7m^2 OF DILUTED VITAL MIXTURE. - RE-APPLY / MAINTAIN AS NECESSARY TO ENSURE THE REQUIRED COVER IS PERMANENTLY MAINTAINED.
			HYDROMULCH OR EQUIVALENT	

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100mm on Original

Bar Scales

Client
ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
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Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
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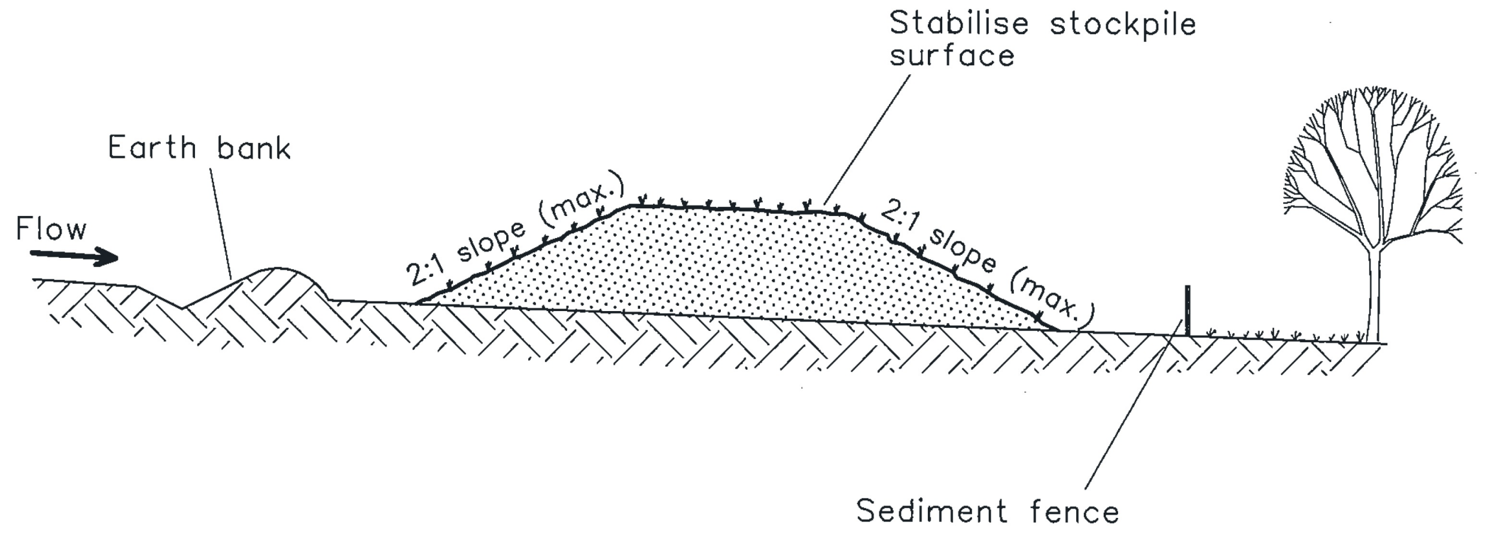
Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3007
Issue 01

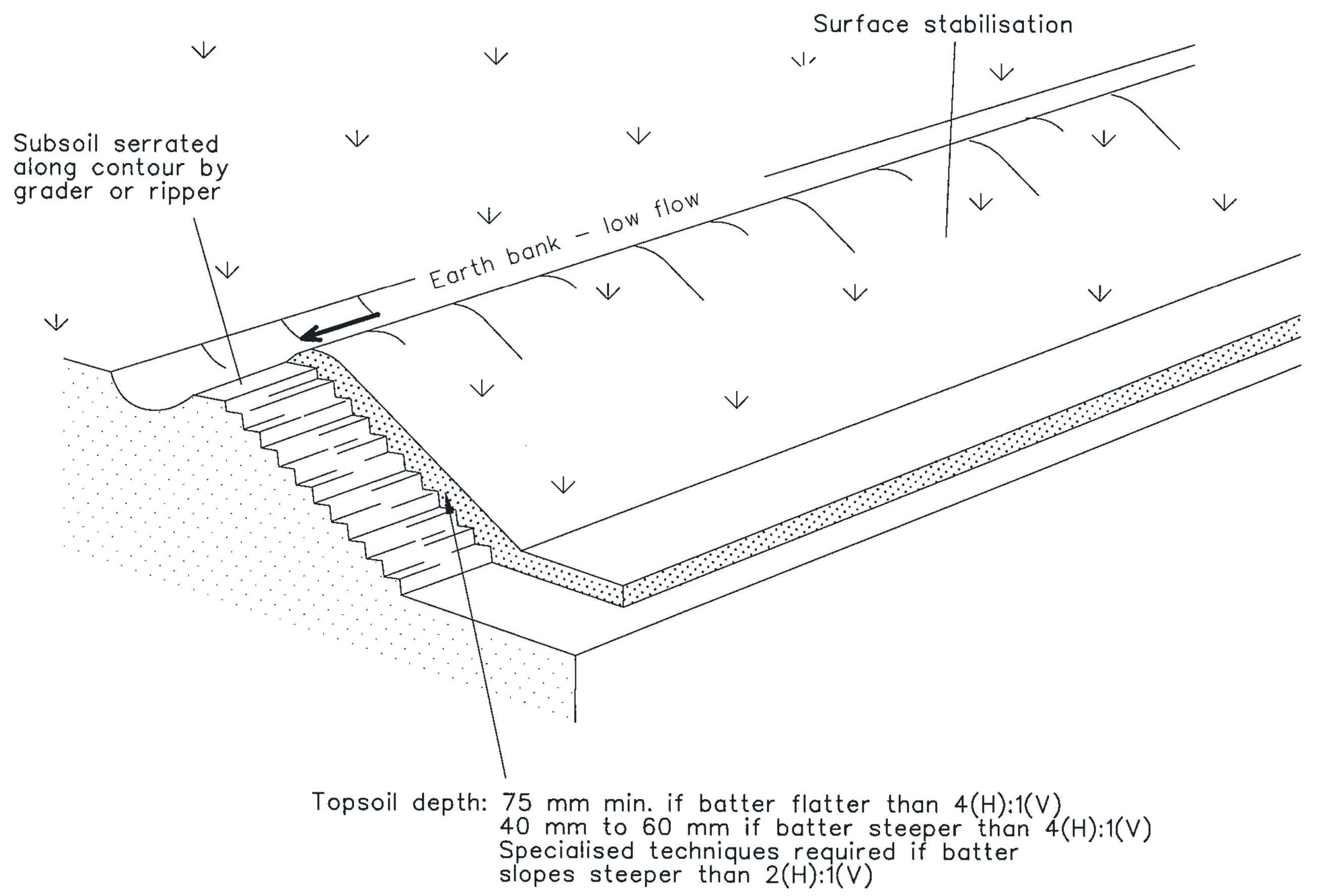


Construction Notes

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

4-5

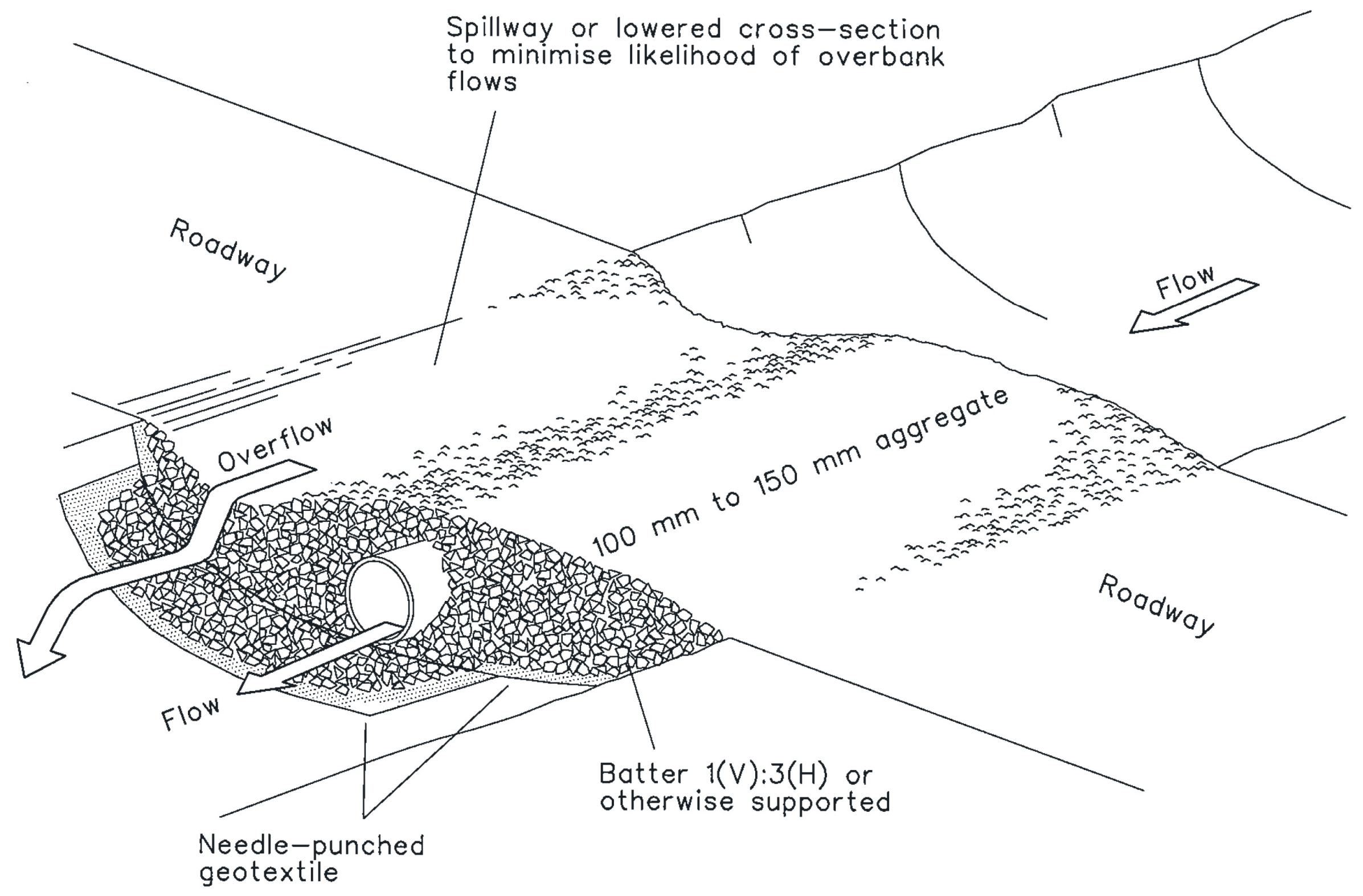


Construction Notes

1. Scarify the ground surface along the line of the contour to a depth of 50 mm to 100 mm to break up any hardsetting surfaces and to provide a good bond between the respread material and subsoil.
2. Add soil ameliorants as required by the ESCP or SWMP.
3. Rip to a depth of 300 mm if compacted layers occur.
4. Where possible, replace topsoil to a depth of 40 to 60 mm on lands where the slope exceeds 4(H):1(V) and to at least 75 mm on lower gradients.

REPLACING TOPSOIL SD 4-2

4-6



Construction Notes

1. Prohibit all traffic until the access way is constructed.
2. Strip any topsoil and place a needle-punched textile over the base of the crossing.
3. Place clean, rigid, non polluting aggregate or gravel in the 100 mm to 150 mm size class over the fabric to a minimum depth of 200 mm.
4. Provide a 3-metre wide carriageway with sufficient length of culvert pipe to allow less than a 3(H): 1 (V) slope on side batters.
5. Install a lower section to act as an emergency spillway in greater than design storm events.
6. Ensure that culvert outlets extend beyond the toe of fill embankments.

TEMPORARY WATERWAY CROSSING SD 5-1

5-14

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
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100mm on Original

Bar Scales

Client
ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
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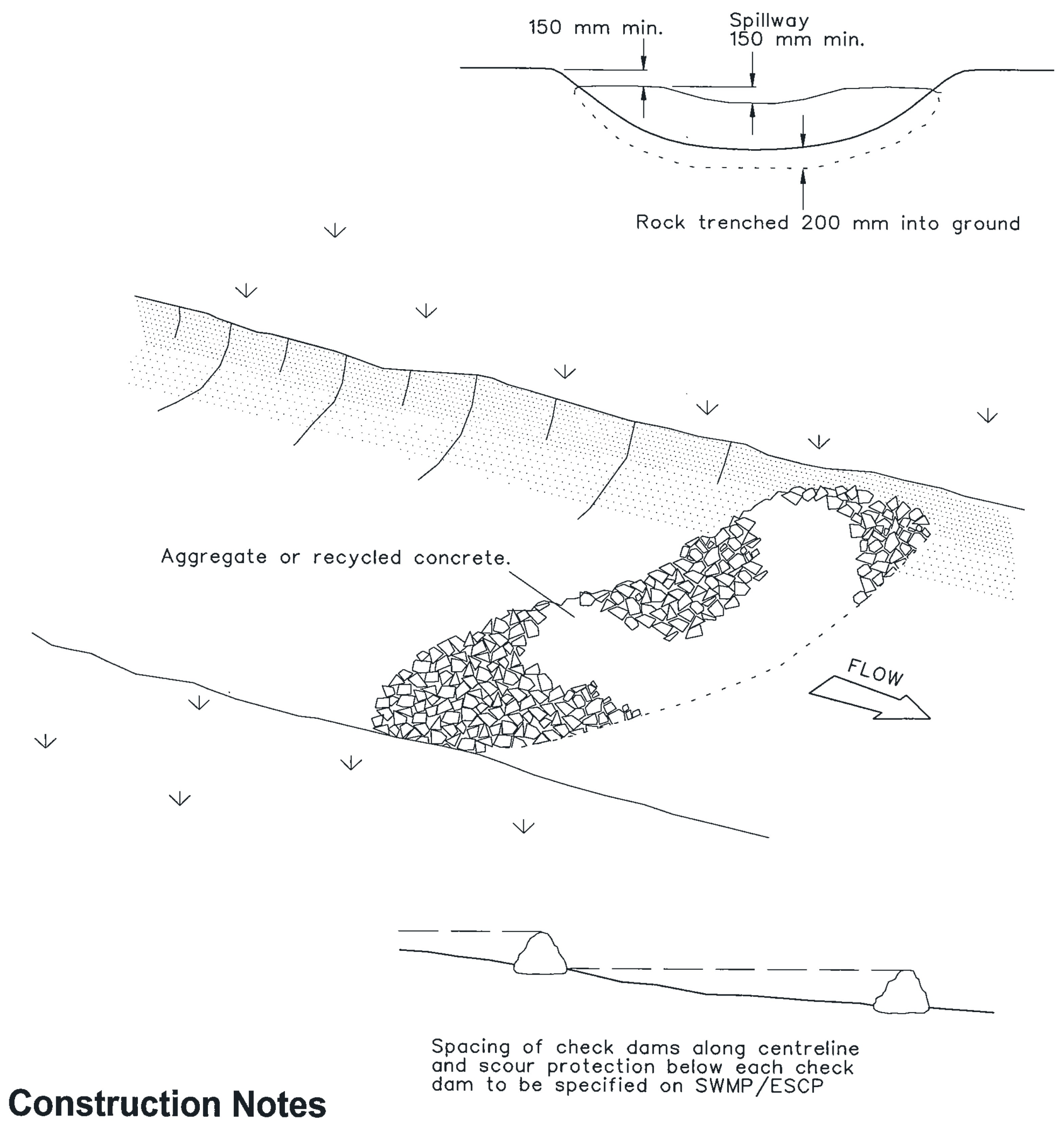
Status FOR CONSTRUCTION A1

Project - Drawing No. 21-860-C3008

Issue 01

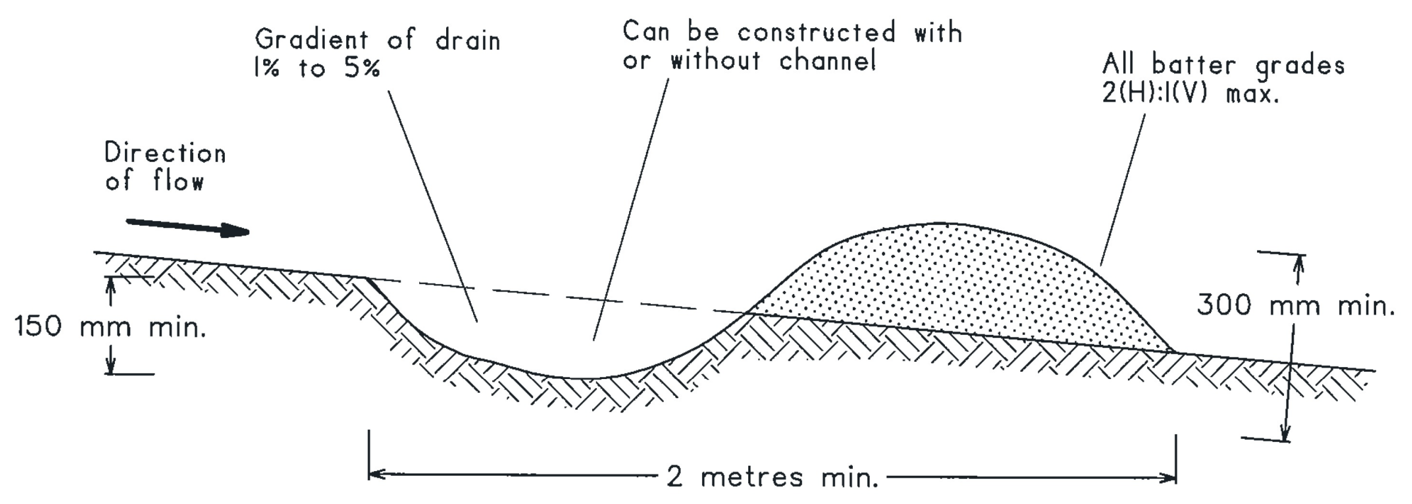


Construction Notes

1. Check dams can be built with various materials, including rocks, logs, sandbags and straw bales. The maintenance program should ensure their integrity is retained, especially where constructed with straw bales. In the case of bales, this might require their replacement each two to four months.
2. Trench the check dam 200 mm into the ground across its whole width. Where rock is used, fill the trenches to at least 100 mm above the ground surface to reduce the risk of undercutting.
3. Normally, their maximum height should not exceed 600 mm above the gully floor. The centre should act as a spillway, being at least 150 mm lower than the outer edges.
4. Space the dams so the toe of the upstream dam is level with the spillway of the next downstream dam.

ROCK CHECK DAM

SD 5-4



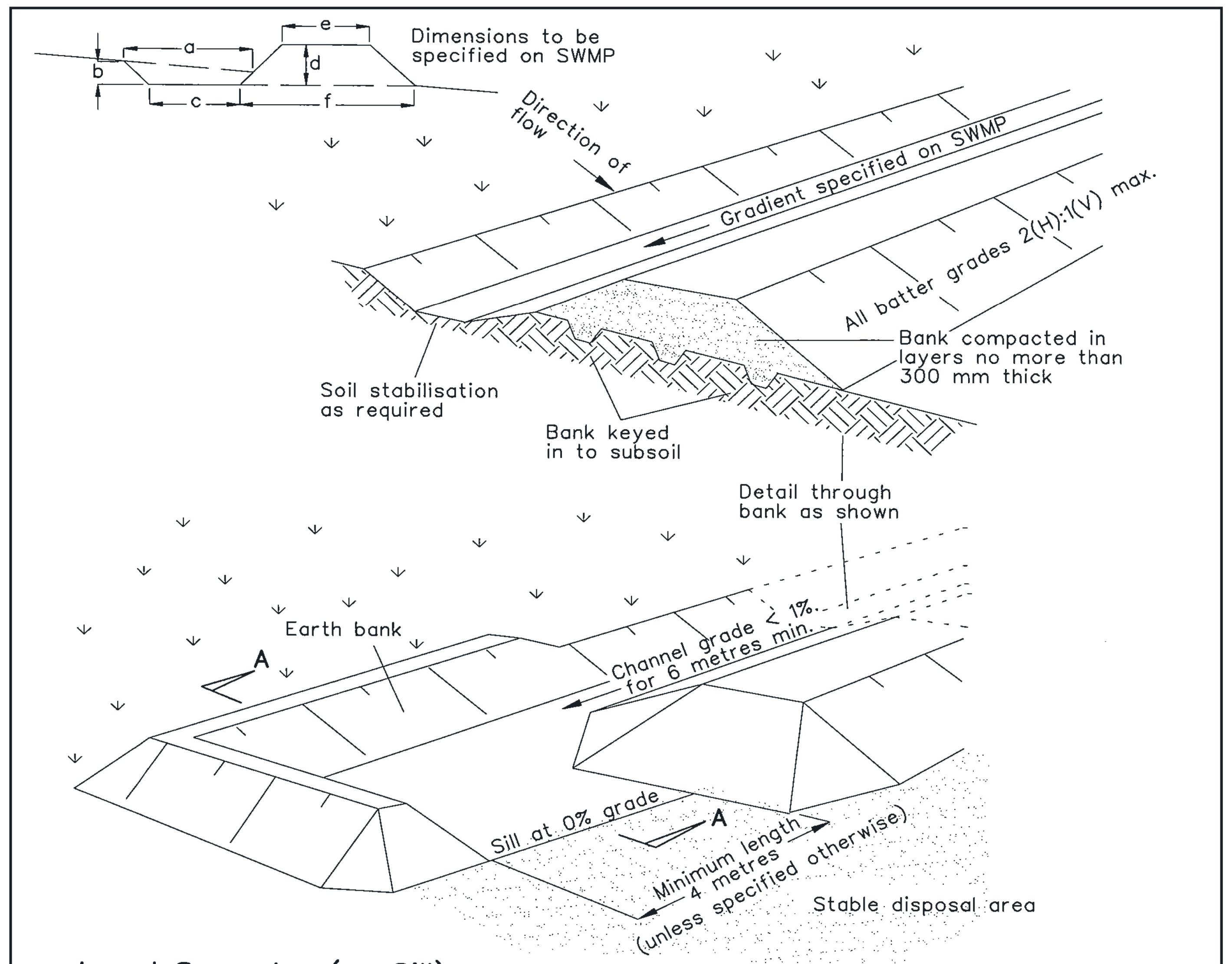
NOTE: Only to be used as temporary bank where maximum upslope length is 80 metres.

Construction Notes

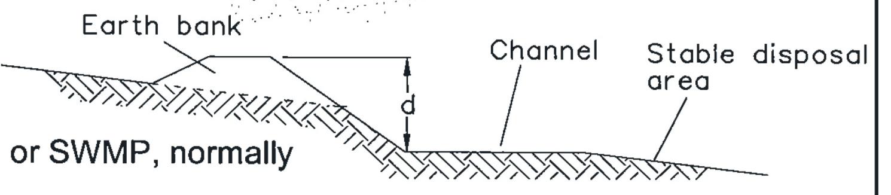
1. Build with gradients between 1 percent and 5 percent.
2. Avoid removing trees and shrubs if possible - work around them.
3. Ensure the structures are free of projections or other irregularities that could impede water flow.
4. Build the drains with circular, parabolic or trapezoidal cross sections, 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



Level Spreader (or Sill)



Section AA

Construction Notes

1. Construct at the gradient specified on the ESCP or SWMP, normally between 1 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, at the dimensions shown on the SWMP.
5. Ensure the banks are properly compacted to prevent failure.
6. Complete permanent or temporary stabilisation within 10 days of construction following Table 5.2 in Landcom (2004).
7. Where discharging to erodible lands, ensure they outlet through a properly constructed level spreader.
8. Construct the level spreader at the gradient specified on the ESCP or SWMP, normally less than 1 percent or level.
9. Where possible, ensure they discharge waters onto either stabilised or undisturbed disposal sites within the same subcatchment area from which the water originated. Approval might be required to discharge into other subcatchments.

EARTH BANK (HIGH FLOWS)

SD 5-6

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

Client
ICON OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
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Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3009
Issue 01

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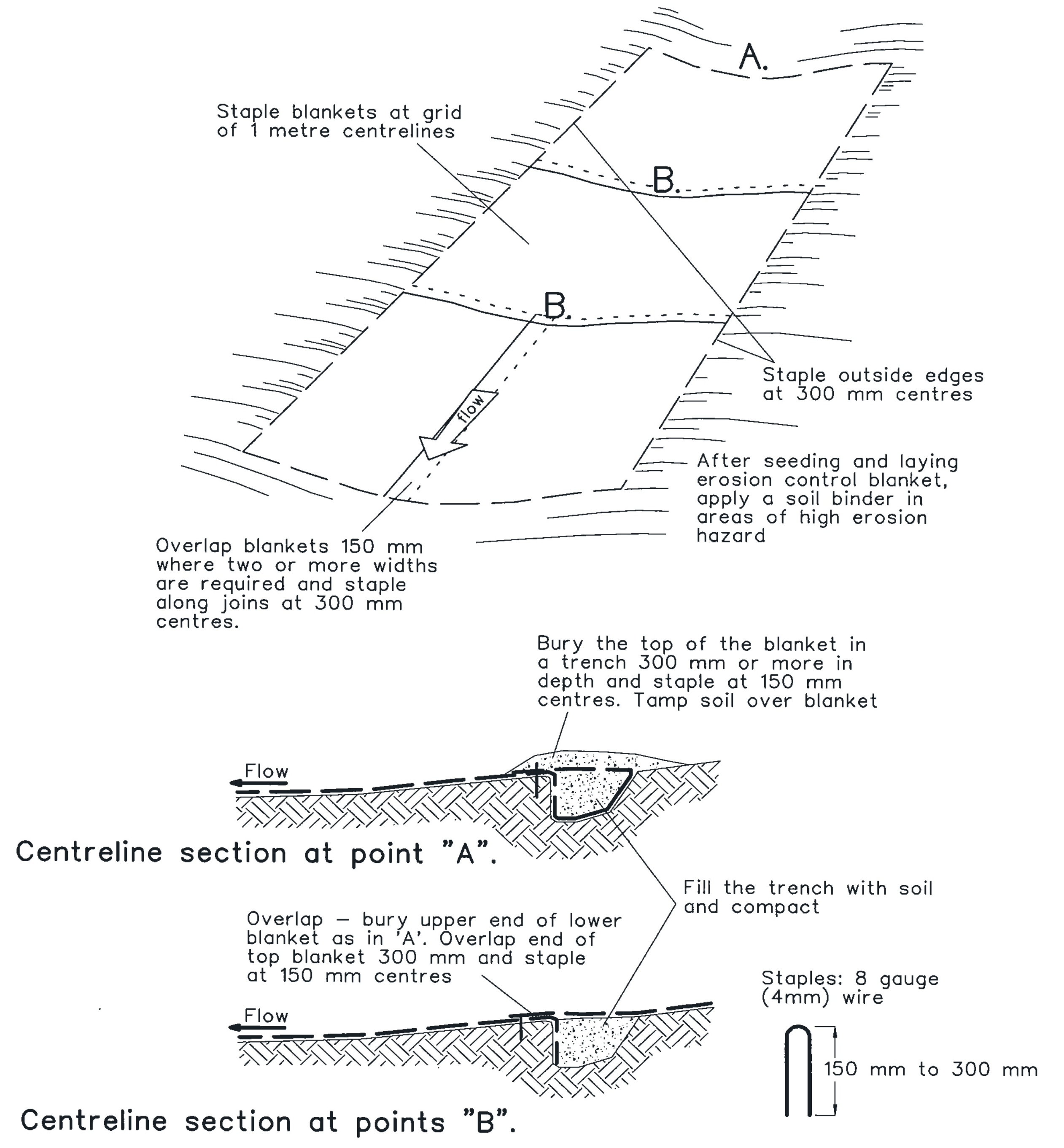
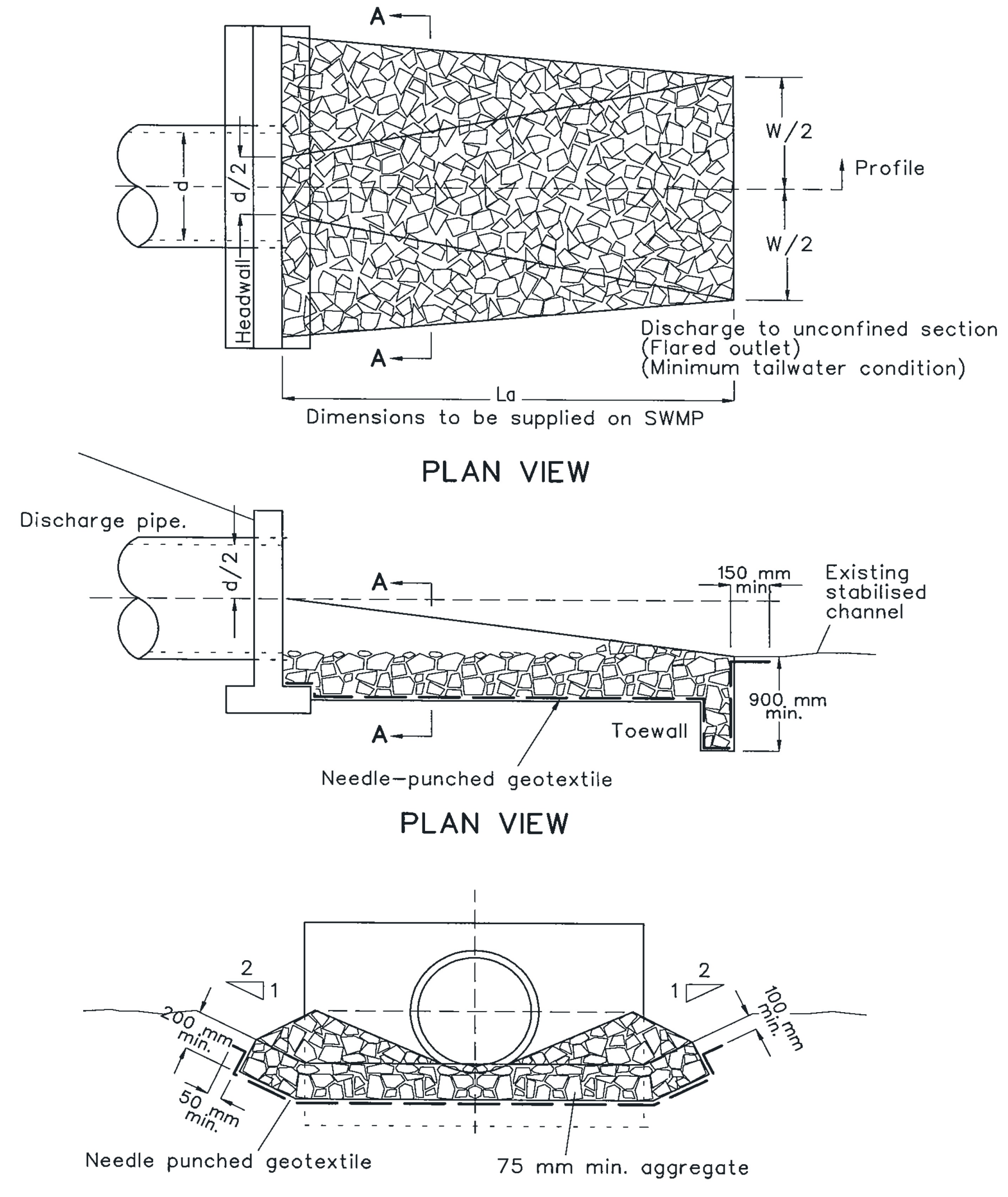


Construction Notes

1. Remove any rocks, clods, sticks or grass from the surface before laying matting
2. Ensure that topsoil is at least 75 mm deep.
3. Complete fertilising and seeding before laying the matting.
4. Ensure fabric will be continuously in contact with the soil by grading the surface carefully first.
5. Lay the fabric in "shingle-fashion", with the end of each upstream roll overlapping those downstream. Ensure each roll is anchored properly at its upslope end (Standard Drawing 5-7b).
6. Ensure that the full width of flow in the channel is covered by the matting up to the design storm event, usually in the 10-year ARI time of concentration storm event.
7. Divert water from the structure until vegetation is stabilised properly.

RECP : CONCENTRATED FLOW

SD 5-7



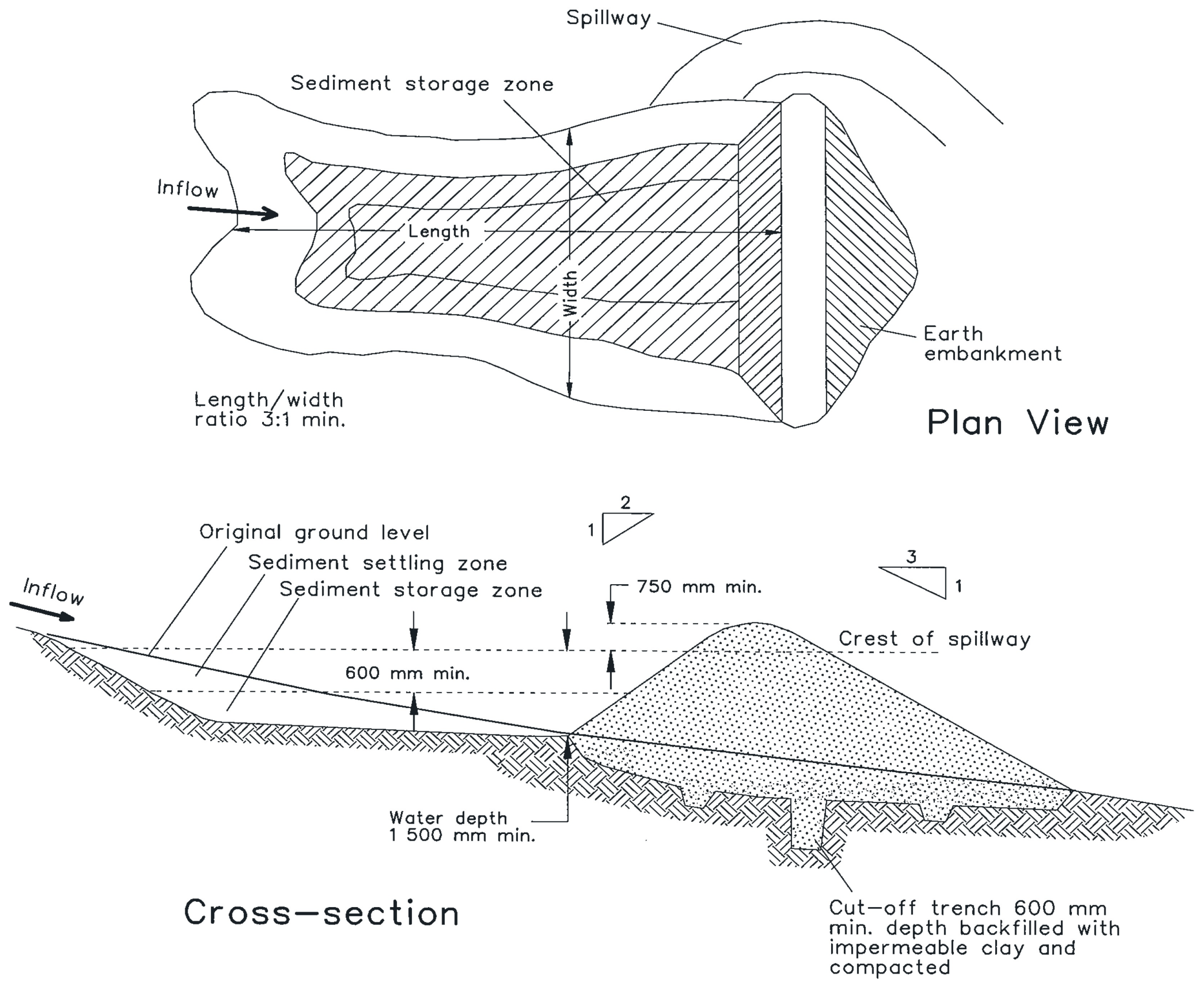
CROSS SECTION AA

Construction Notes

1. Compact the subgrade fill to the density of the surrounding undisturbed material.
2. Prepare a smooth, even foundation for the structure that will ensure that the needle-punched geotextile does not sustain serious damage when covered with rock.
3. Should any minor damage to the geotextile occur, repair it before spreading any aggregate. For repairs, patch one piece of fabric over the damage, making sure that all joints and patches overlap more than 300 mm.
4. Lay rock following the drawing, according to Table 5.2 of Landcom (2004) and with a minimum diameter of 75 mm.
5. Ensure that any concrete or riprap used for the energy dissipater or the outlet protection conforms to the grading limits specified on the SWMP.

ENERGY DISSIPATER

SD 5-8



Construction Notes

1. Remove all vegetation and topsoil from under the dam wall and from within the storage area.
2. Construct a cut-off trench 500 mm deep and 1,200 mm wide along the centreline of the embankment extending to a point on the gully wall level with the riser crest.
3. Maintain the trench free of water and recompact the materials with equipment as specified in the SWMP to 95 per cent Standard Proctor Density.
4. Select fill following the SWMP that is free of roots, wood, rock, large stone or foreign material.
5. Prepare the site under the embankment by ripping to at least 100 mm to help bond compacted fill to the existing substrate.
6. Spread the fill in 100 mm to 150 mm layers and compact it at optimum moisture content following the SWMP.
7. Construct the emergency spillway.
8. Rehabilitate the structure following the SWMP.

EARTH BASIN - WET

(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

SD 6-4

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
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Bar Scales

100mm on Original

Client
ICON OCEANIA

Scales	N.T.S.	Drawn	ASD
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Grid	GDA 2020	Checked	MM
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GDA2020

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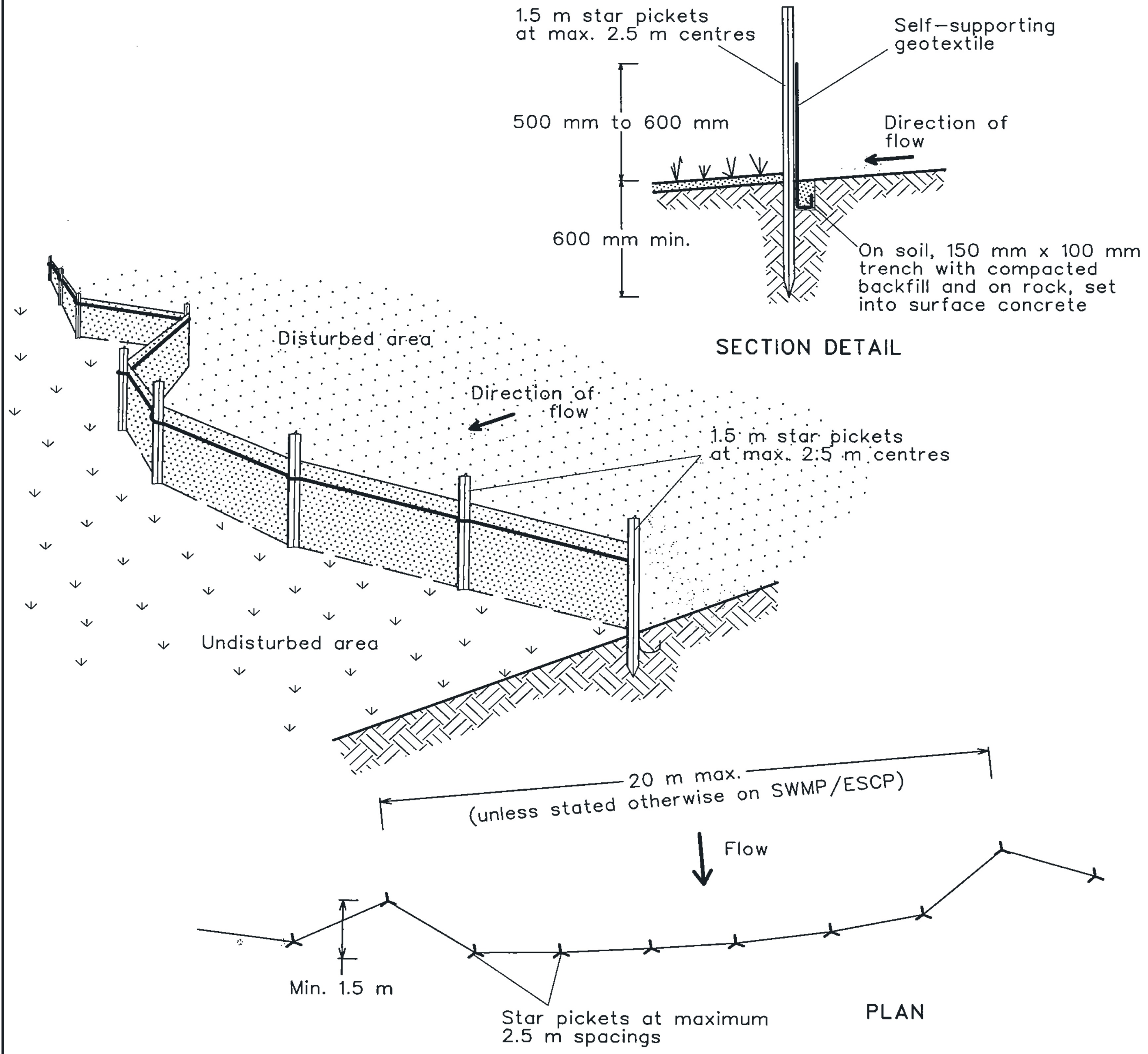
Status FOR CONSTRUCTION
A1

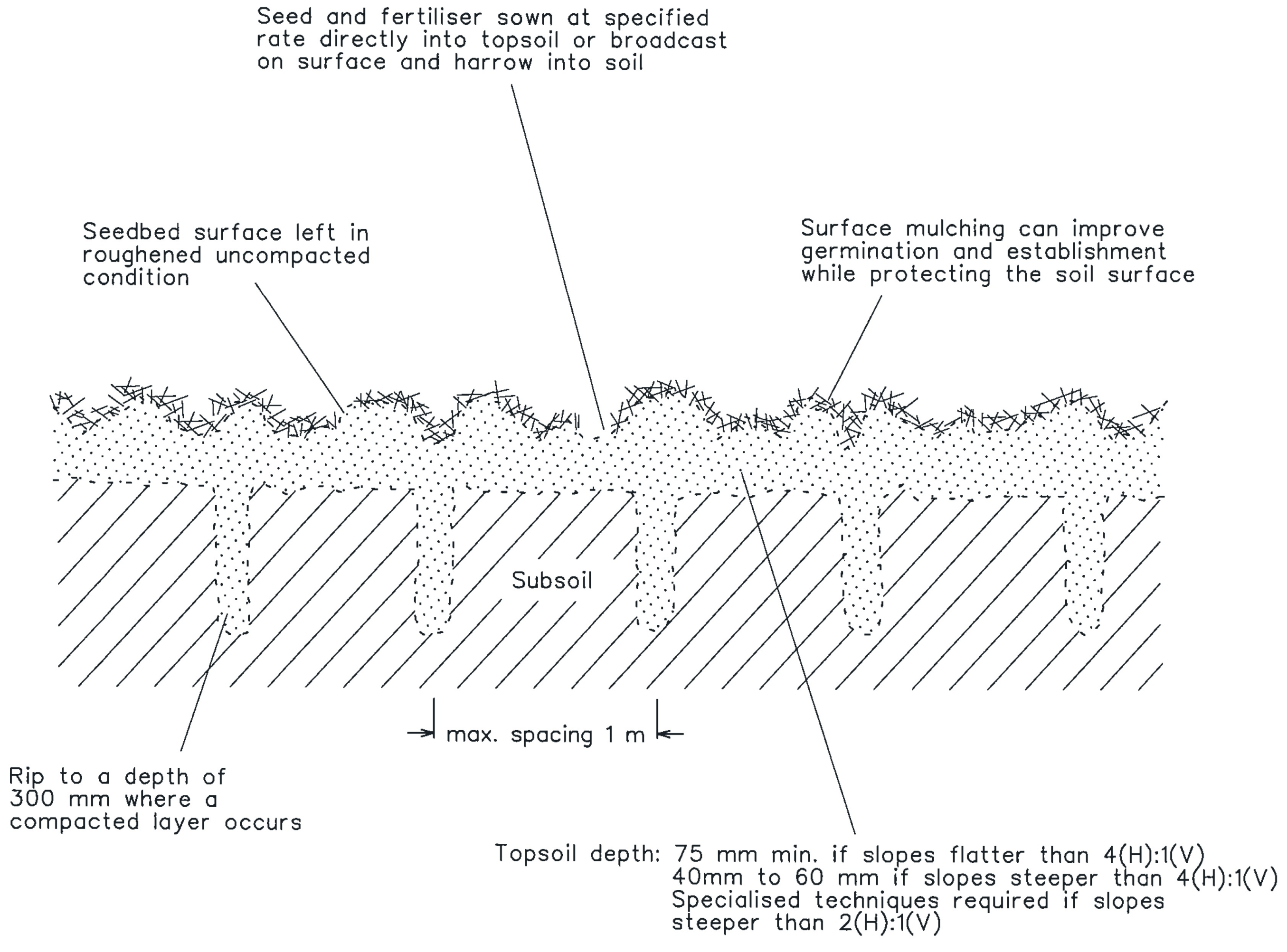
Project - Drawing No. 21-860-C3010
Issue 01



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. Loosen compacted soil before sowing any seed. If necessary, rip the soil to a depth of 300 mm. Avoid rotary hoe cultivation.
2. Work the ground only as much as necessary to achieve the desired tilth and prepare a good seedbed.
3. Avoid cultivation in very wet or very dry conditions.
4. Cultivate on or close to the contour where possible, not up and down the slope.

SEEDBED PREPARATION **SD 7-1**

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Scales N.T.S.
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Status FOR CONSTRUCTION
A1
Project - Drawing No. 21-860-C3011
Issue 01

INSTALLATION

1. REFER TO APPROVED PLANS FOR LOCATION AND DIMENSIONAL DETAILS. IF THERE ARE QUESTIONS OR PROBLEMS WITH THE LOCATION, DIMENSIONS, OR METHOD OF INSTALLATION, CONTACT THE ENGINEER OR RESPONSIBLE ON-SITE OFFICER FOR ASSISTANCE.

2. CLEAR THE LOCATION OF THE WASH BAY, REMOVING STUMPS, ROOTS AND OTHER VEGETATION TO PROVIDE A FIRM FOUNDATION. CLEAR SUFFICIENT WIDTH TO ALLOW PASSAGE OF LARGE VEHICLES, BUT CLEAR ONLY THAT NECESSARY FOR THE EXIT. DO NOT CLEAR ADJACENT AREAS UNTIL THE REQUIRED EROSION AND SEDIMENT CONTROL DEVICES ARE IN PLACE.

3. GRADE THE LOCATION OF THE WASH BAY SO THAT RUNOFF FROM THE UNIT WILL NOT FLOW INTO THE STREET, BUT WILL FLOW TOWARDS AN APPROPRIATE SEDIMENT-TRAPPING DEVICE.

4. PLACE AND COMPACT A 150mm THICK LAYER OF MINIMUM 50mm ROCK OVER THE ROADWAY BETWEEN THE WASH BAY AND THE SEALED STREET TO PREVENT TYRES FROM PICKING UP MORE SOIL AFTER THEY HAVE BEEN CLEANED.

5. FLARE THE END OF THE ATTACHED ROCK PAD WHERE IT MEETS THE PAVEMENT SO THAT THE WHEELS OF TURNING VEHICLES DO NOT TRAVEL OVER UNPROTECTED SOIL.

6. IF THE FOOTPATH IS OPEN TO PEDESTRIAN MOVEMENT, THEN COVER THE COARSE ROCK WITH FINE AGGREGATE OR GRAVEL, OR OTHERWISE TAKE WHATEVER MEASURES ARE NEEDED TO MAKE THE AREA SAFE.

7. IF A MECHANICAL VEHICLE-WASHING SYSTEM IS INSTALLED, PROVIDE A SUITABLE SOURCE OF POWER AND WATER SUPPLY.

8. IF THE VEHICLES ARE TO BE WASHED BY MANUAL HOSING, THEN ENSURE A HOSE (LONG ENOUGH TO REACH AROUND ANY VEHICLE LEAVING THE SITE) IS CONNECTED A SUITABLE PRESSURISED WATER SOURCE.

MAINTENANCE

1. INSPECT WASH BAYS PRIOR TO FORECAST RAIN, DAILY DURING EXTENDED PERIODS OF RAINFALL, AFTER SIGNIFICANT RUNOFF-PRODUCING RAINFALL, OR OTHERWISE AT FORTNIGHTLY INTERVALS.

2. IF SAND, SOIL, SEDIMENT OR MUD IS TRACKED OR WASHED ONTO THE ADJACENT SEALED ROADWAY, THEN SUCH MATERIAL MUST BE PHYSICALLY REMOVED, FIRST USING A SQUARE-EDGED SHOVEL, AND THEN A STIFF-BRISTLED BROOM, AND THEN BY A MECHANICAL VACUUM UNIT, IF AVAILABLE.

3. IF NECESSARY FOR SAFETY REASONS, THE ROADWAY SHALL ONLY BE WASHED CLEAN AFTER ALL REASONABLE EFFORTS HAVE BEEN TAKEN TO SHOVEL AND SWEEP THE MATERIAL FROM THE ROADWAY.

4. WHEN THE VOIDS BETWEEN THE ROCK BECOMES FILLED WITH MATERIAL AND THE EFFECTIVENESS OF THE ATTACHED ROCK PAD IS REDUCED TO A POINT WHERE SEDIMENT IS BEING TRACKED OFF THE SITE, A NEW 100mm LAYER OF ROCK MUST BE ADDED AND/OR THE ROCK PAD MUST BE EXTENDED.

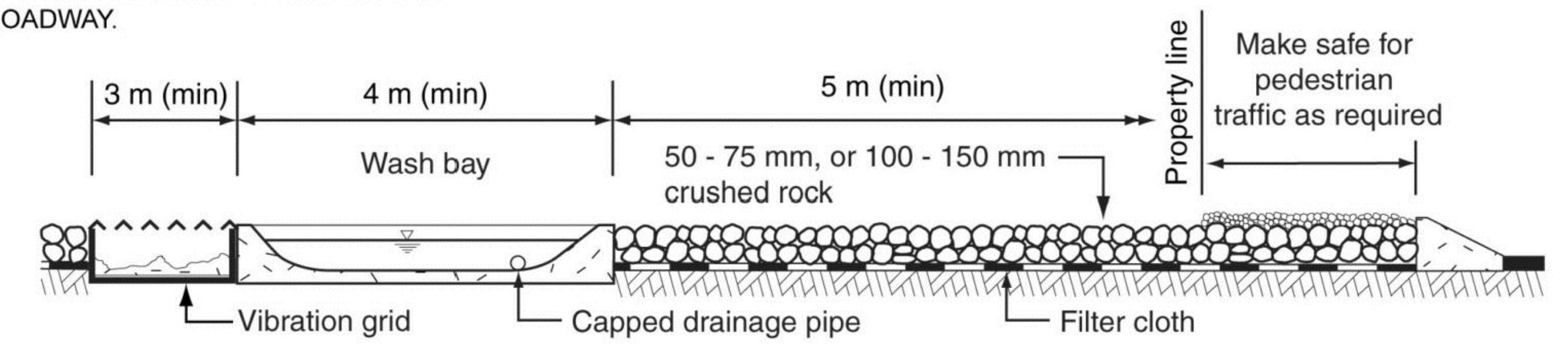
5. ENSURE ANY ASSOCIATED DRAINAGE CONTROL MEASURES ARE MAINTAINED IN ACCORDANCE WITH THEIR DESIRED OPERATIONAL CONDITION.

6. DISPOSE OF SEDIMENT AND DEBRIS IN A MANNER THAT WILL NOT CREATE AN EROSION OR POLLUTION HAZARD.

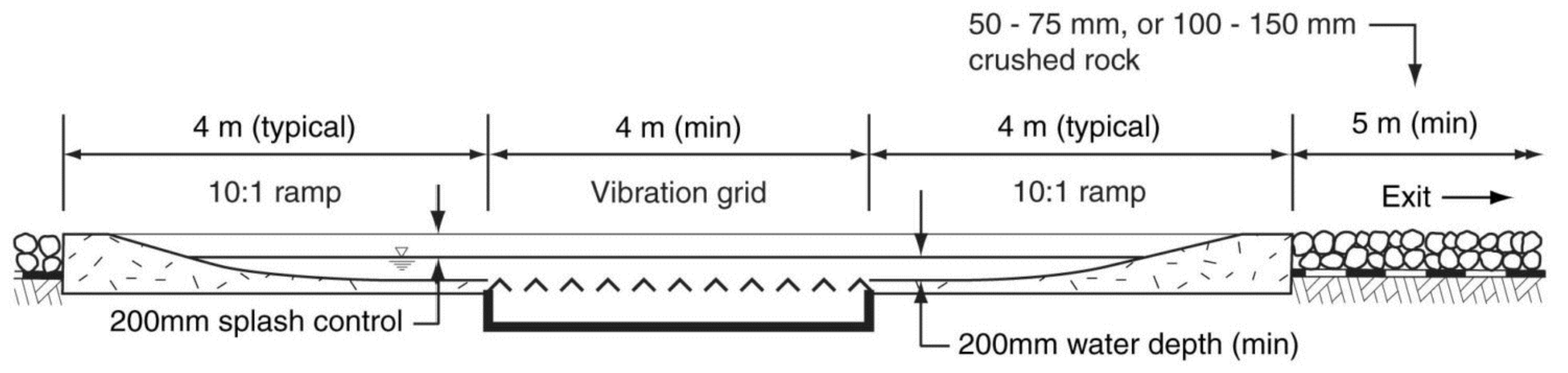
REMOVAL

1. THE WASH BAY SHOULD BE REMOVED ONLY AFTER IT IS NO LONGER NEEDED AS A SEDIMENT CONTROL DEVICE.

2. REMOVE MATERIALS AND COLLECTED SEDIMENT AND DISPOSE OF IN A SUITABLE MANNER THAT WILL NOT CAUSE AN EROSION OR POLLUTION HAZARD.
3. RE-GRADE AND STABILISE THE DISTURBED GROUND AS NECESSARY TO MINIMISE THE EROSION HAZARD.



(a) Example of a low speed wash bay



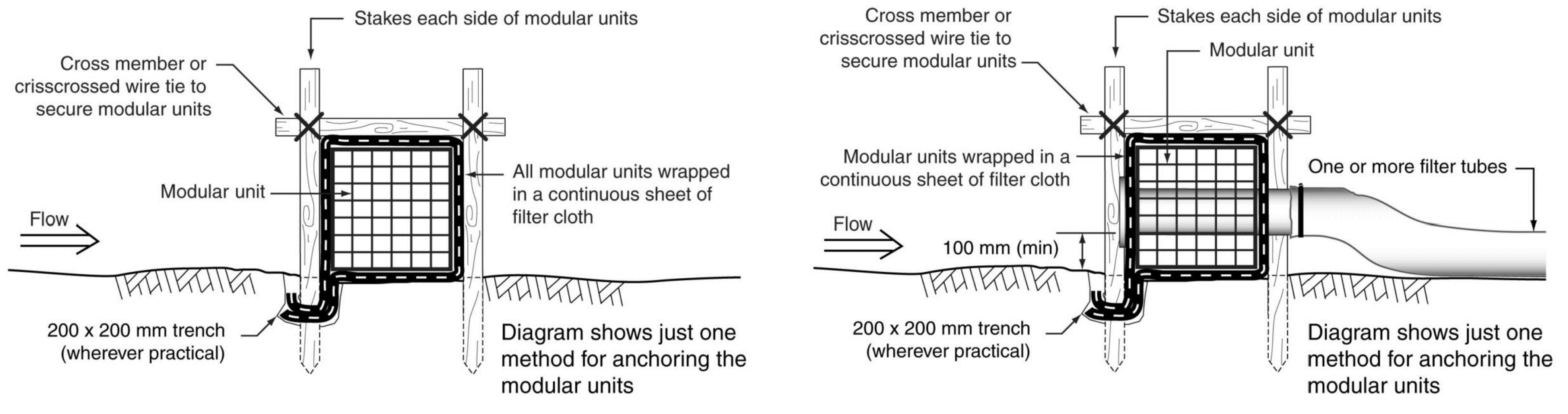
(b) Example of a medium speed wash bay

Catchments & Creeks Pty Ltd

Drawn:	Date:		
GMW	Apr-10	Construction Exit - Wash Bay	Exit-06

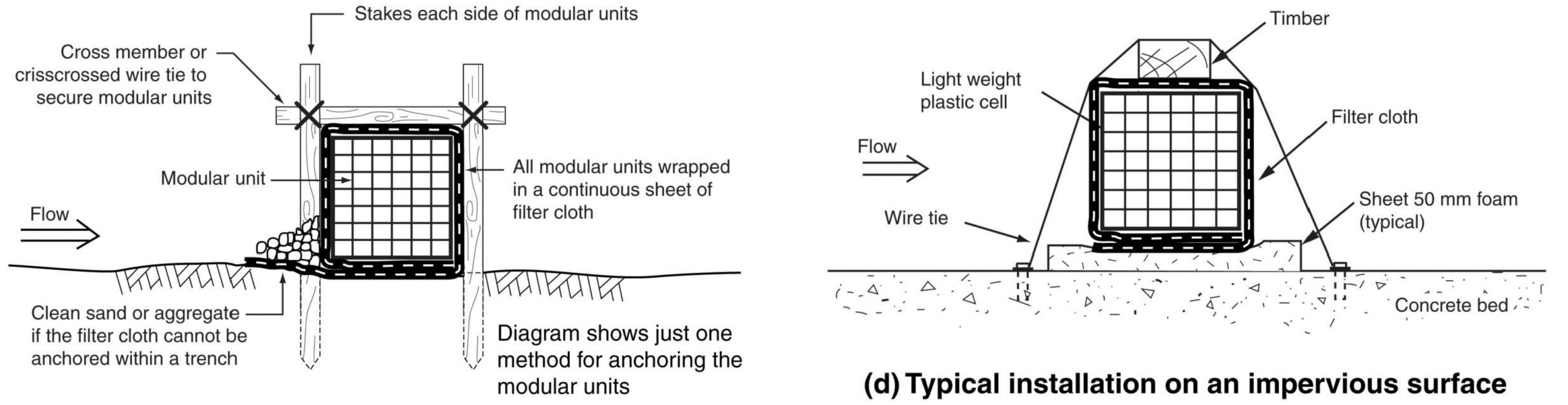
STABILISED SITE ACCESS DETAIL

N.T.S



(a) Preferred installation method

(b) Incorporation of filter tubes



(c) Alternative installation method

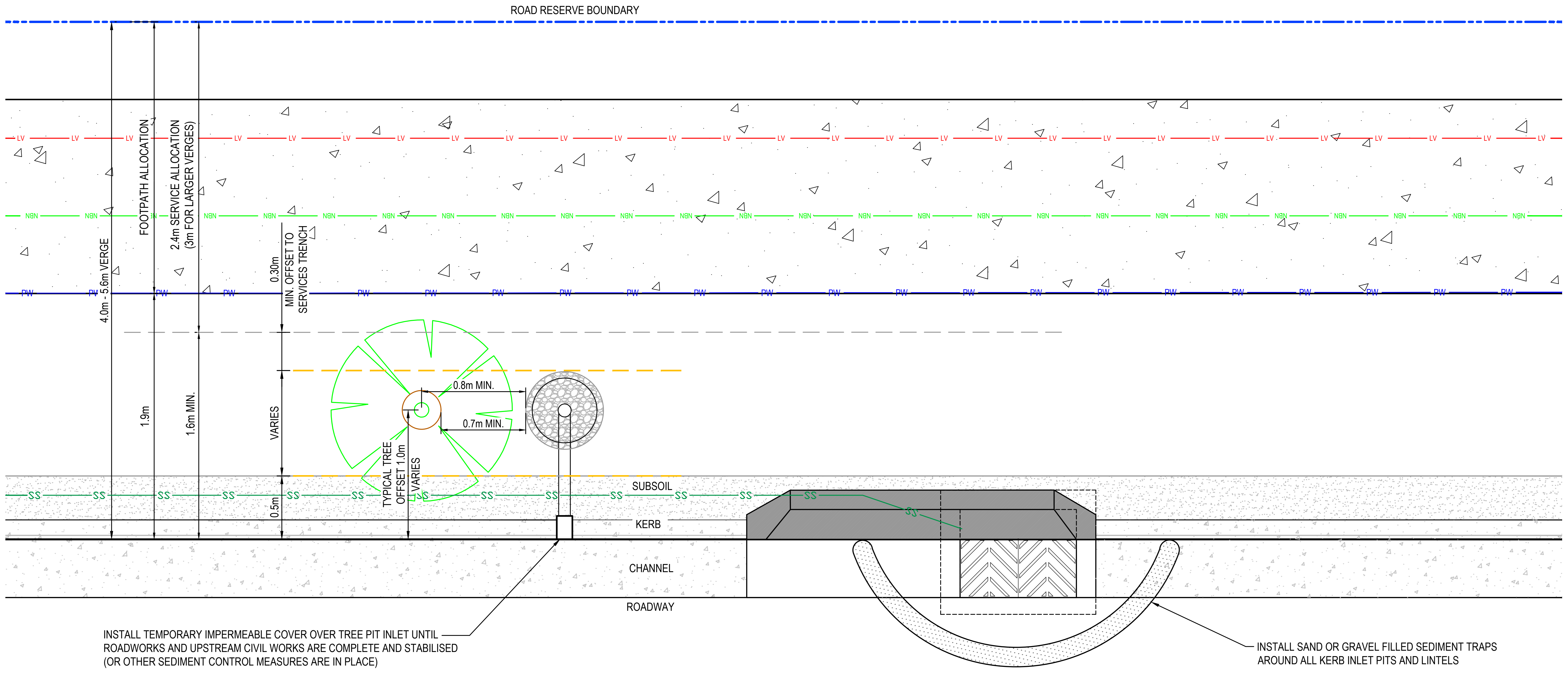
(d) Typical installation on an impervious surface

Catchments & Creeks Pty Ltd

Drawn:	Date:		
GMW	Dec-09	Modular Sediment Trap	MST-01

MODULAR SEDIMENT TRAP

N.T.S



INSTALL TEMPORARY IMPERMEABLE COVER OVER TREE PIT INLET UNTIL ROADWORKS AND UPSTREAM CIVIL WORKS ARE COMPLETE AND STABILISED (OR OTHER SEDIMENT CONTROL MEASURES ARE IN PLACE)

INSTALL SAND OR GRAVEL FILLED SEDIMENT TRAPS AROUND ALL KERB INLET PITS AND LINTELS

TYPICAL TREE PIT PLAN

SCALE 1:25

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25

100mm on Original

Bar Scales

0 0.5 1 1.5 2 2.5m

1 : 25 @ A1 1 : 50 @ A3

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Client

ICON
OCEANIA

Scales	N.T.S.	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
GENERAL NOTES
SHEET 11

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Status
FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C3012

Issue
01

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SEDIMENT AND EROSION CONTROL LEGEND

—□——□—	SEDIMENT FENCE (SD 6-8)
—○——○—	SEDIMENT FENCE ON PAD (SD 6-8)
——B——	BARRIER FENCE
→——→——	EARTH BANK (LOW FLOW) (SD 5-5)
—››——››—	CLEAN WATER DIVERSION SWALE
═>═>═	CATCH DRAIN (REFER TO DRG. No. C10051 FOR DETAILS)
)))))))))))))	RECP : CONCENTRATED FLOW (SD 5-7)
▬	STRAW BALE FILTER (SD 6-7)
⌒	MESH AND GRAVEL INLET FILTER (SD 6-11)
⬭⬭⬭	ROCK RIFFLE CHECK DAM (SD 5-4)
⊠	GEOTEXTILE INLET (SD 6-12)
▤	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
○⋈○	PROPOSED SITE ACCESS GATE
▬ ▬ ▬	PIPE CROSSING uPVC PIPE LAID AT MIN. 1% FALL

NOTE:

- ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

NOTE:

SEDIMENT FENCE ON PADS ONLY TO BE INSTALLED WHERE PAD IS TO BE LEFT FOR MORE THAN TWO MONTHS. PRIOR TO INSTALLATION, THE CONTRACTOR MUST CONFIRM WITH THE SUPERINTENDENT IF THE FENCING IS TO BE INSTALLED.

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

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Client

ICON
OCEANIA

Scales	1 : 500	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
PERMANENT ARRANGEMENT
EROSION AND SEDIMENT
CONTROL PLAN
SHEET 1

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Status FOR CONSTRUCTION A1

Project - Drawing No. 21-860-C3020
Issue 01

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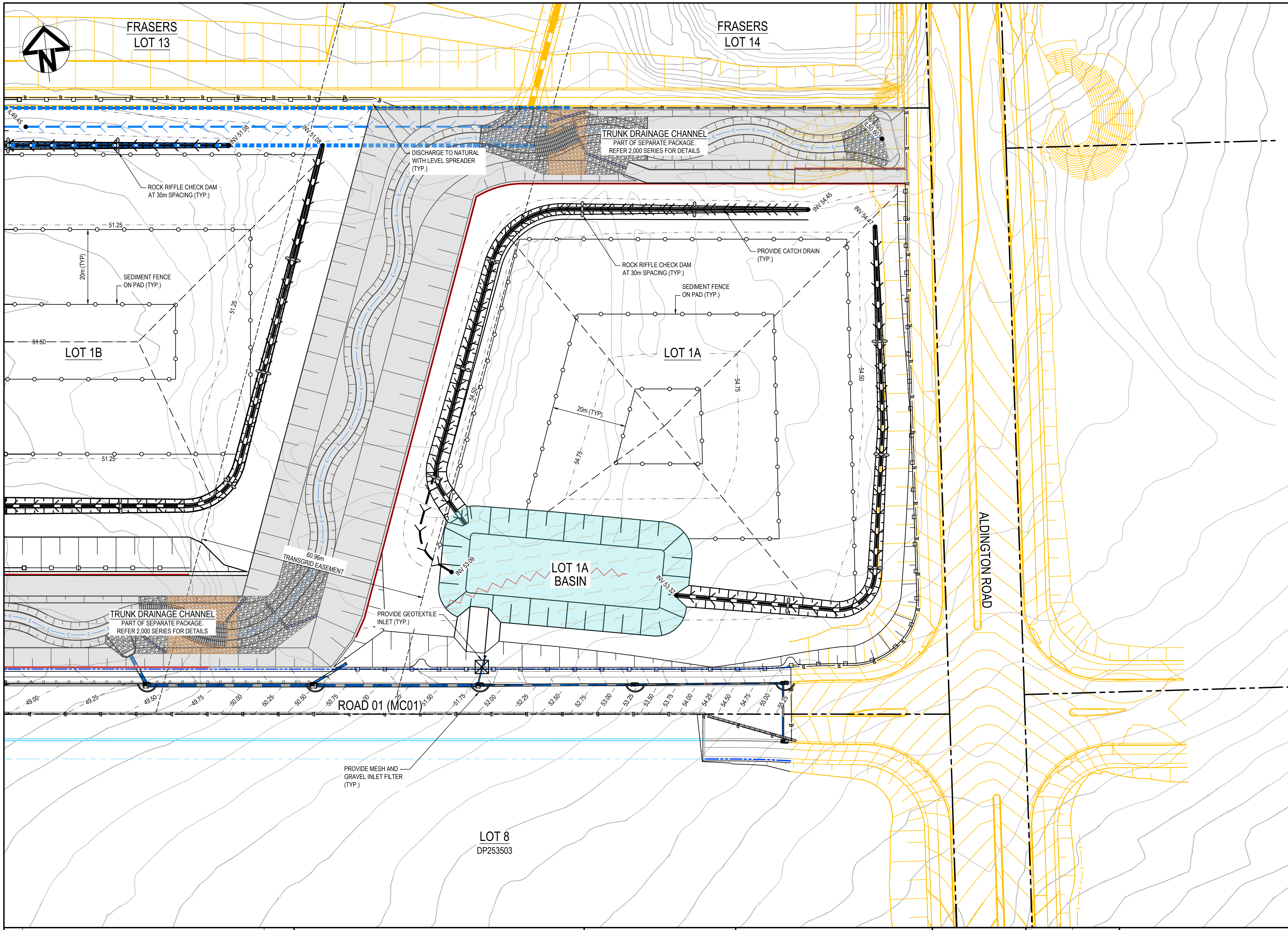

SEDIMENT AND EROSION CONTROL LEGEND

-□——□—	SEDIMENT FENCE (SD 6-8)
-○——○—	SEDIMENT FENCE ON PAD (SD 6-8)
——B——	BARRIER FENCE
→ → —	EARTH BANK (LOW FLOW) (SD 5-5)
—››—››—	CLEAN WATER DIVERSION SWALE
═>═>═	CATCH DRAIN (REFER TO DRG. No. C10051 FOR DETAILS)
)))))))))))))	RECP : CONCENTRATED FLOW (SD 5-7)
▬	STRAW BALE FILTER (SD 6-7)
⌒	MESH AND GRAVEL INLET FILTER (SD 6-11)
●●●	ROCK RIFFLE CHECK DAM (SD 5-4)
☒	GEOTEXTILE INLET (SD 6-12)
▤	STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA (SD 6-14)
○⋈○	PROPOSED SITE ACCESS GATE
━ ━ ━	PIPE CROSSING uPVC PIPE LAID AT MIN. 1% FALL

NOTE:
- ALL SWALE PIPE CROSSINGS TO BE RATED FOR CONSTRUCTION TRAFFIC LOADINGS.

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales

0 10 20 30 40 50m

1 : 500 @ A1 1 : 1000 @ A3

Client
ICON
OCEANIA

Scales	1 : 500	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
PERMANENT ARRANGEMENT
EROSION AND SEDIMENT
CONTROL PLAN
SHEET 2

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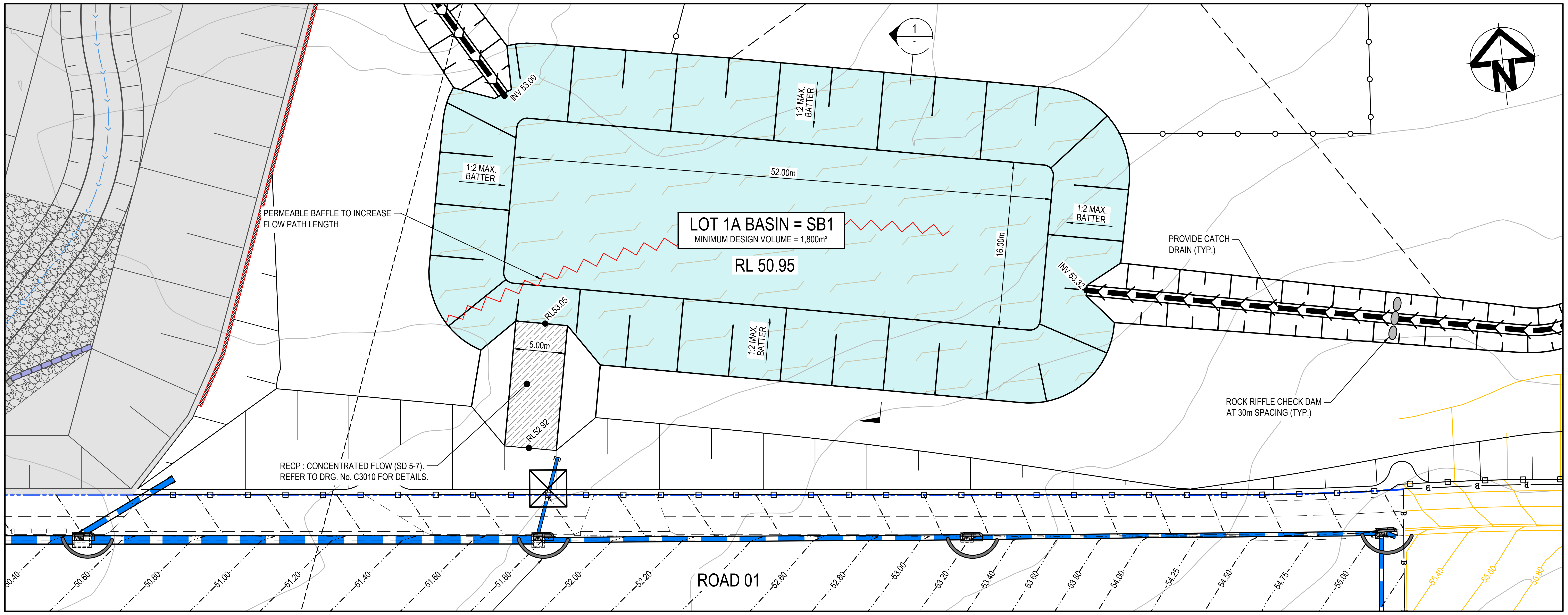
Status
FOR CONSTRUCTION
A1

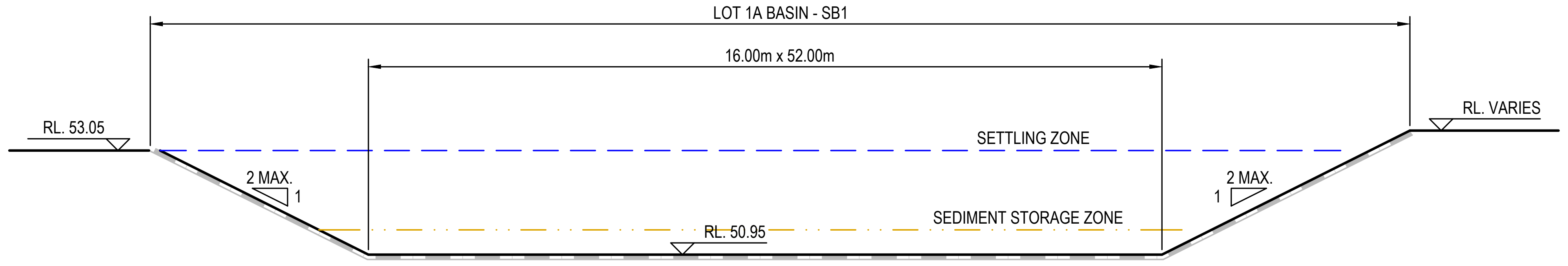
Project - Drawing No.
21-860-C3021

Issue
01

NOTE:
1. ENLARGED TYPE-D SEDIMENT BASINS WITH A VOLUME OF 900m³ PER HECTARE OF CONTRIBUTING CATCHMENT HAVE BEEN ADOPTED IN LIEU OF HIGH EFFICIENCY SEDIMENT BASINS (TYPE A OR B)



PLAN
SCALE 1:250



SECTION 1
1 : 100

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

100mm on Original

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3
0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

Client
ICON
OCEANIA

Scales
1 : 250 PLAN
1:100 SECTION
Grid GDA 2020
Height Datum AHD
GDA2020

Drawn	ASD
Designed	TM
Checked	MM
Approved	

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
EROSION AND SEDIMENT
BASIN DETAILS
BASIN SB1

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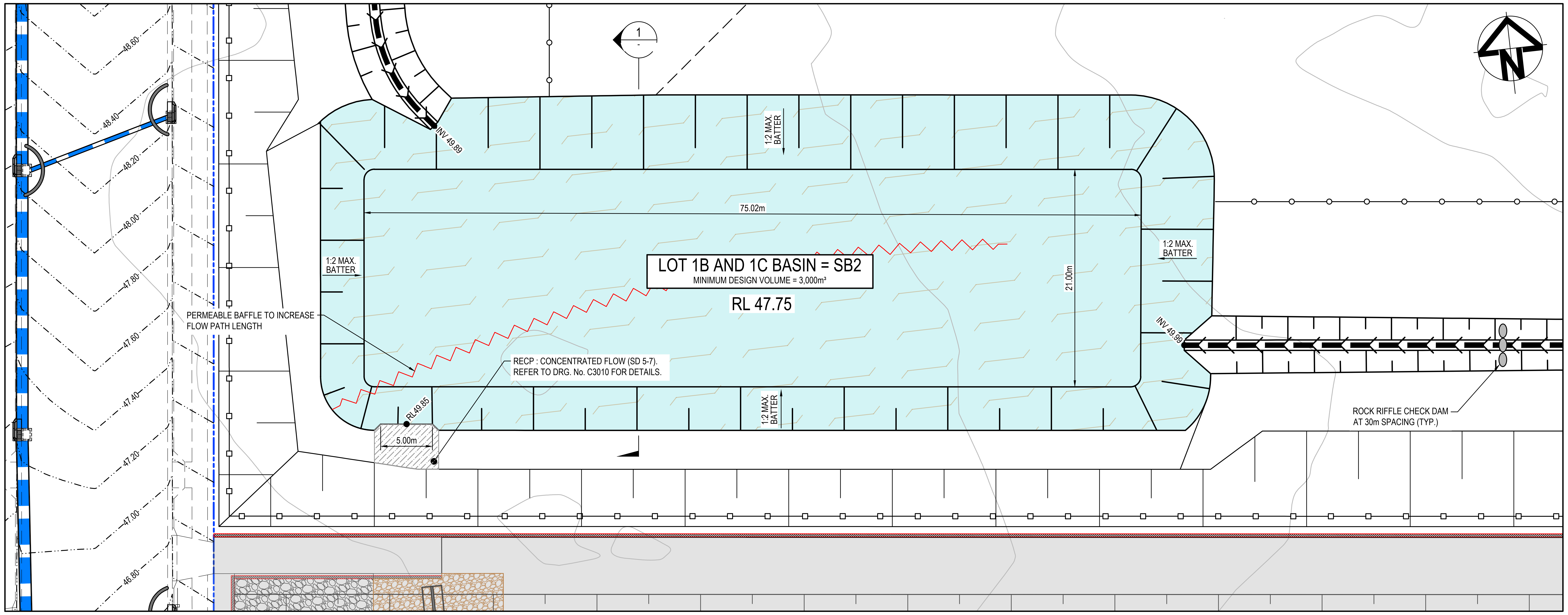
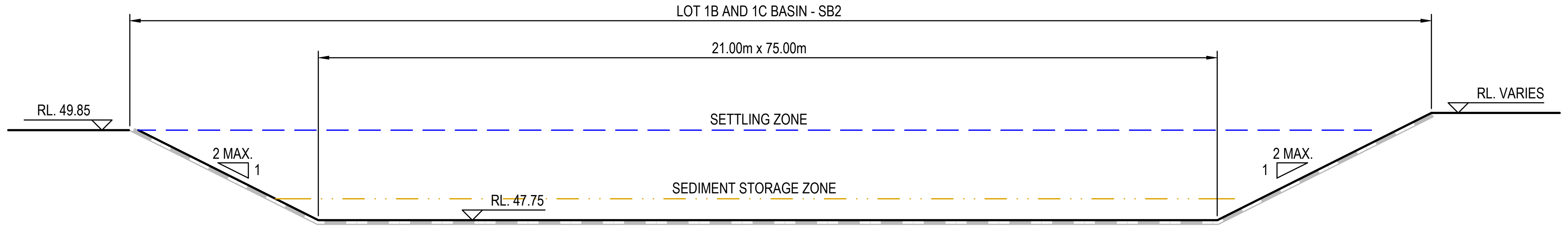
Status FOR CONSTRUCTION
A1
Project - Drawing No. 21-860-C3030
Issue 01

NOTE:
1. ENLARGED TYPE-D SEDIMENT BASINS WITH A VOLUME OF 900m³ PER HECTARE OF CONTRIBUTING CATCHMENT HAVE BEEN ADOPTED IN LIEU OF HIGH EFFICIENCY SEDIMENT BASINS (TYPE A OR B)



PLAN
SCALE 1:250



SECTION 1
1 : 100

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3

0 5 10 15 20 25m
1 : 250 @ A1 1 : 500 @ A3

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Client
ICON
OCEANIA

Scales	1 : 250 PLAN 1:100 SECTION	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
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BASIN SB2

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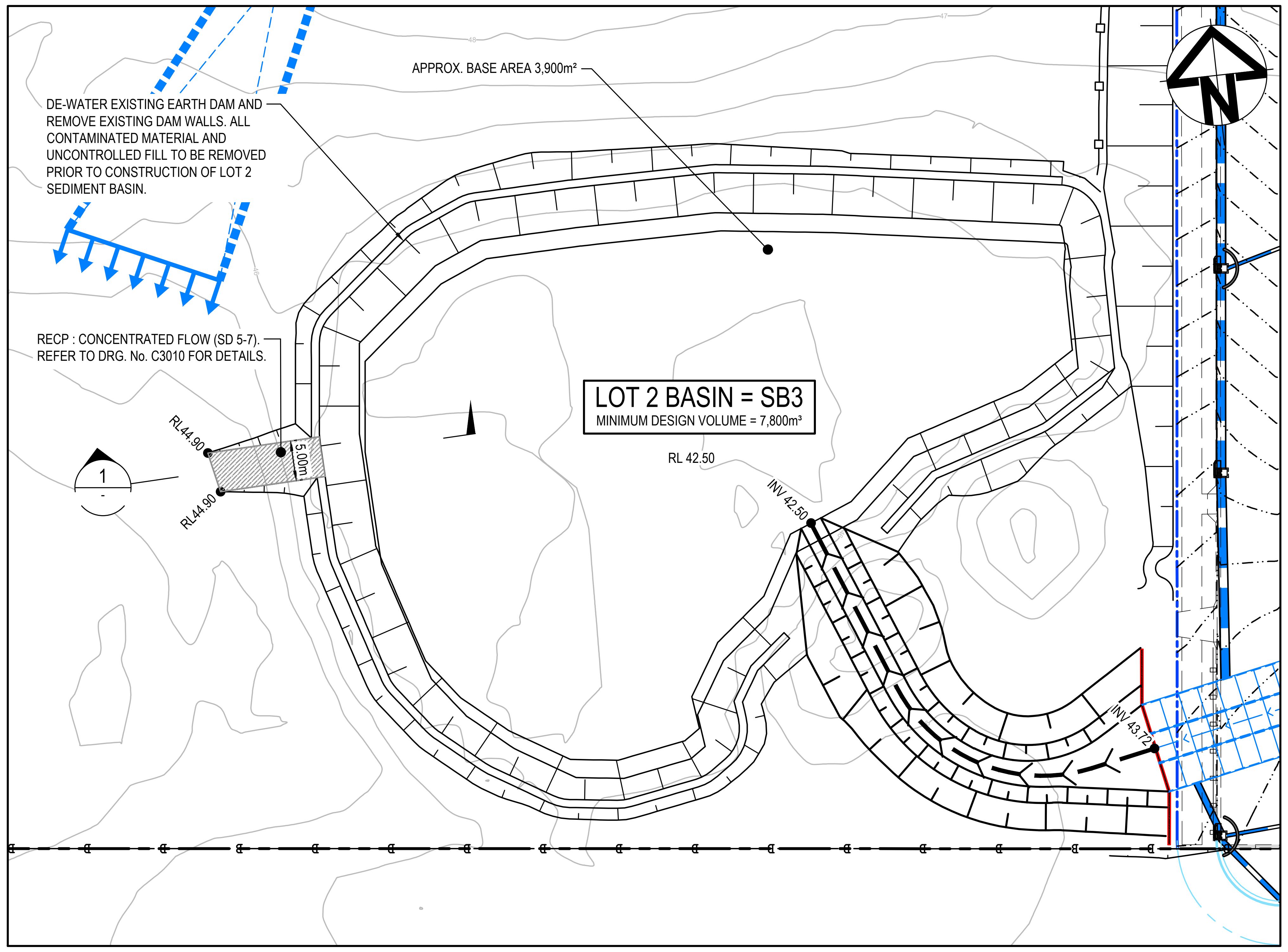
Status FOR CONSTRUCTION
A1

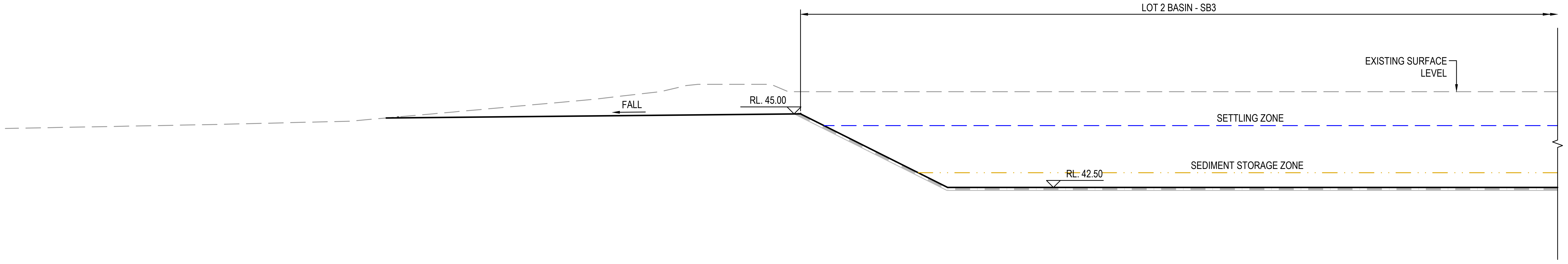
Project - Drawing No. 21-860-C3031
Issue 01

100mm on Original

NOTE:
1. ENLARGED TYPE-D SEDIMENT BASINS WITH A VOLUME OF 900m³ PER HECTARE OF CONTRIBUTING CATCHMENT HAVE BEEN ADOPTED IN LIEU OF HIGH EFFICIENCY SEDIMENT BASINS (TYPE A OR B)



PLAN
SCALE 1:500



SECTION 1
1 : 100
-

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales
0 2 4 6 8 10m
1 : 100 @ A1 1 : 200 @ A3
0 10 20 30 40 50m
1 : 500 @ A1 1 : 1000 @ A3

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Client
ICON OCEANIA

Scales	1 : 500 1:100 SECTION	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
EROSION AND SEDIMENT BASIN DETAILS
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Status FOR CONSTRUCTION
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Project - Drawing No. 21-860-C3032
Issue 01

100mm on Original

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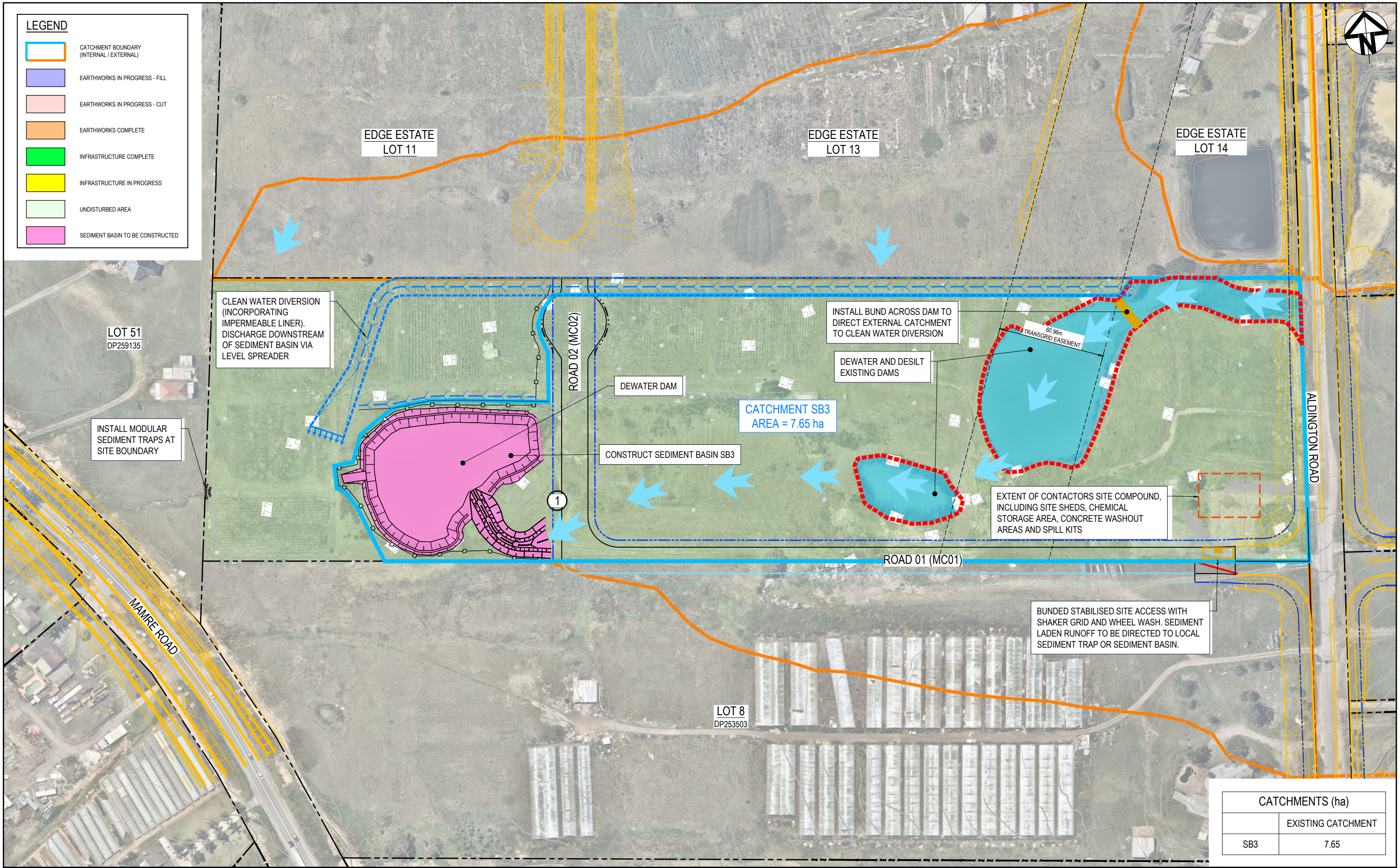

LEGEND

▭	CATCHMENT BOUNDARY (INTERNAL / EXTERNAL)
🟦	EARTHWORKS IN PROGRESS - FILL
▨	EARTHWORKS IN PROGRESS - CUT
🟧	EARTHWORKS COMPLETE
🟩	INFRASTRUCTURE COMPLETE
🟨	INFRASTRUCTURE IN PROGRESS
▢	UNDISTURBED AREA
🟪	SEDIMENT BASIN TO BE CONSTRUCTED

CATCHMENTS (ha)	
	EXISTING CATCHMENT
SB3	7.65

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
B	ISSUED FOR APPROVAL	22-09-25
A	ISSUED FOR APPROVAL	09-09-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1   1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1 : 1000	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
CONSTRUCTION STAGING PLAN
PHASE 1

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Status FOR CONSTRUCTION | A1

Project - Drawing No. 21-860-C3040 | Issue 01

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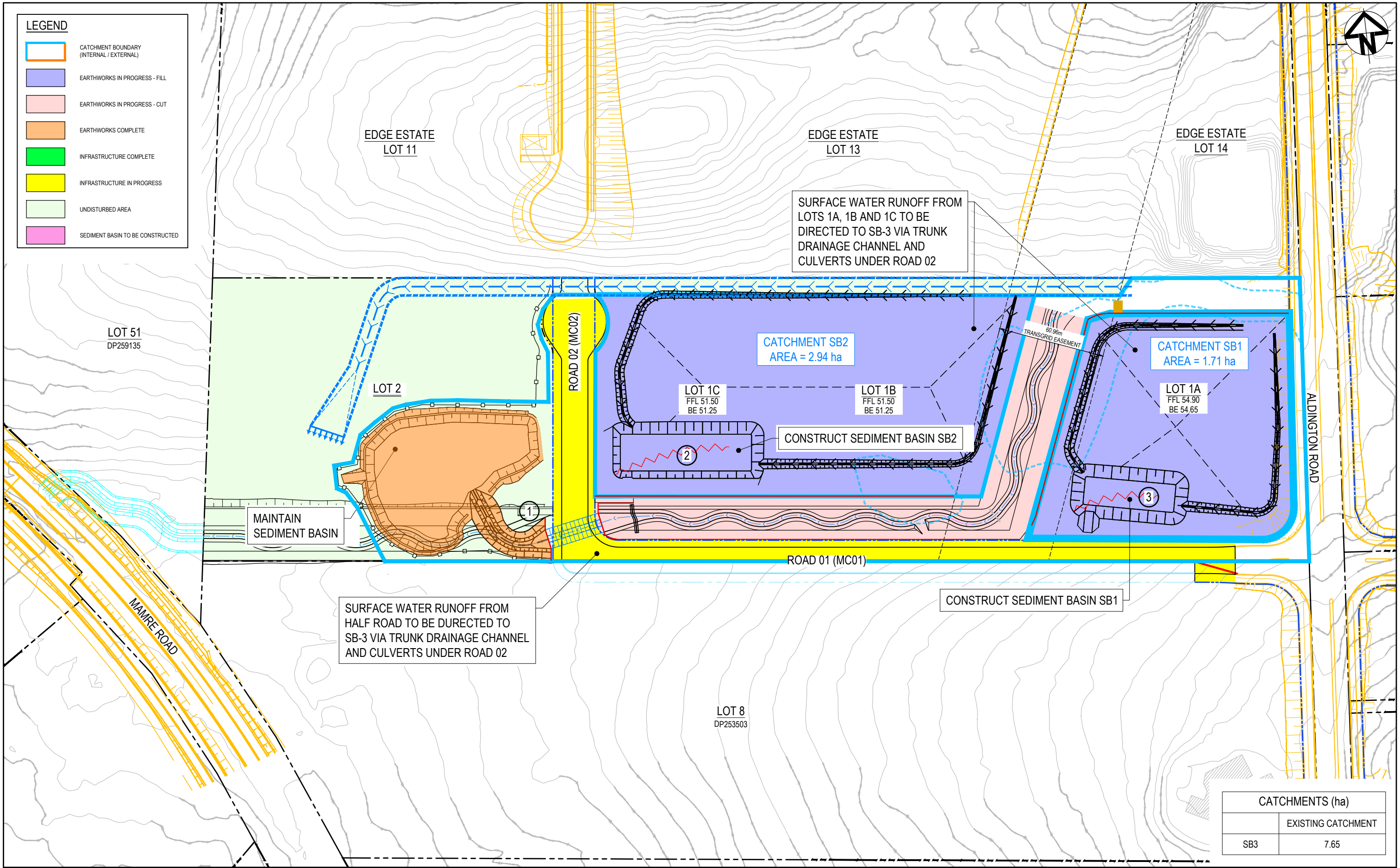

SURFACE WATER RUNOFF FROM LOTS 1A, 1B AND 1C TO BE DIRECTED TO SB-3 VIA TRUNK DRAINAGE CHANNEL AND CULVERTS UNDER ROAD 02

SURFACE WATER RUNOFF FROM HALF ROAD TO BE DURECTED TO SB-3 VIA TRUNK DRAINAGE CHANNEL AND CULVERTS UNDER ROAD 02

LEGEND

▭	CATCHMENT BOUNDARY (INTERNAL / EXTERNAL)
🟪	EARTHWORKS IN PROGRESS - FILL
▭	EARTHWORKS IN PROGRESS - CUT
🟧	EARTHWORKS COMPLETE
🟩	INFRASTRUCTURE COMPLETE
🟨	INFRASTRUCTURE IN PROGRESS
▭	UNDISTURBED AREA
🟪	SEDIMENT BASIN TO BE CONSTRUCTED

CATCHMENTS (ha)	
	EXISTING CATCHMENT
SB3	7.65

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
B	ISSUED FOR APPROVAL	22-09-25
A	ISSUED FOR APPROVAL	09-09-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

Client

ICON
OCEANIA

Scales	1 : 1000	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
CONSTRUCTION STAGING PLAN PHASE 2

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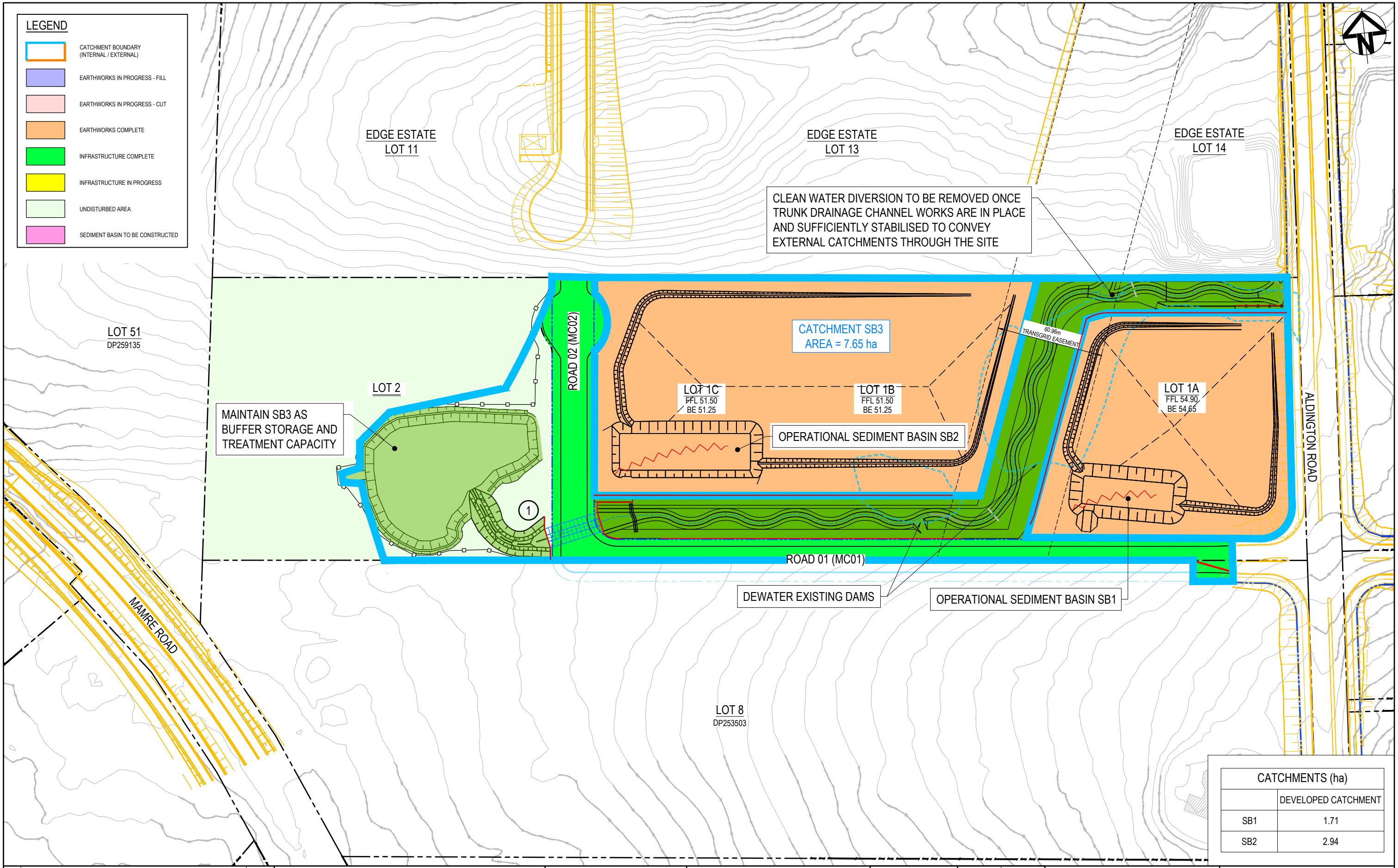
Status FOR CONSTRUCTION A1

Project - Drawing No. 21-860-C3041

Issue 01



CATCHMENTS (ha)	
	DEVELOPED CATCHMENT
SB1	1.71
SB2	2.94

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
B	ISSUED FOR APPROVAL	22-09-25
A	ISSUED FOR APPROVAL	09-09-25

100mm on Original

Bar Scales

0 20 40 60 80 100m

1 : 1000 @ A1 1 : 2000 @ A3

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Client

ICON
OCEANIA

Scales	1 : 1000	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
CONSTRUCTION STAGING
PLAN
PHASE 3

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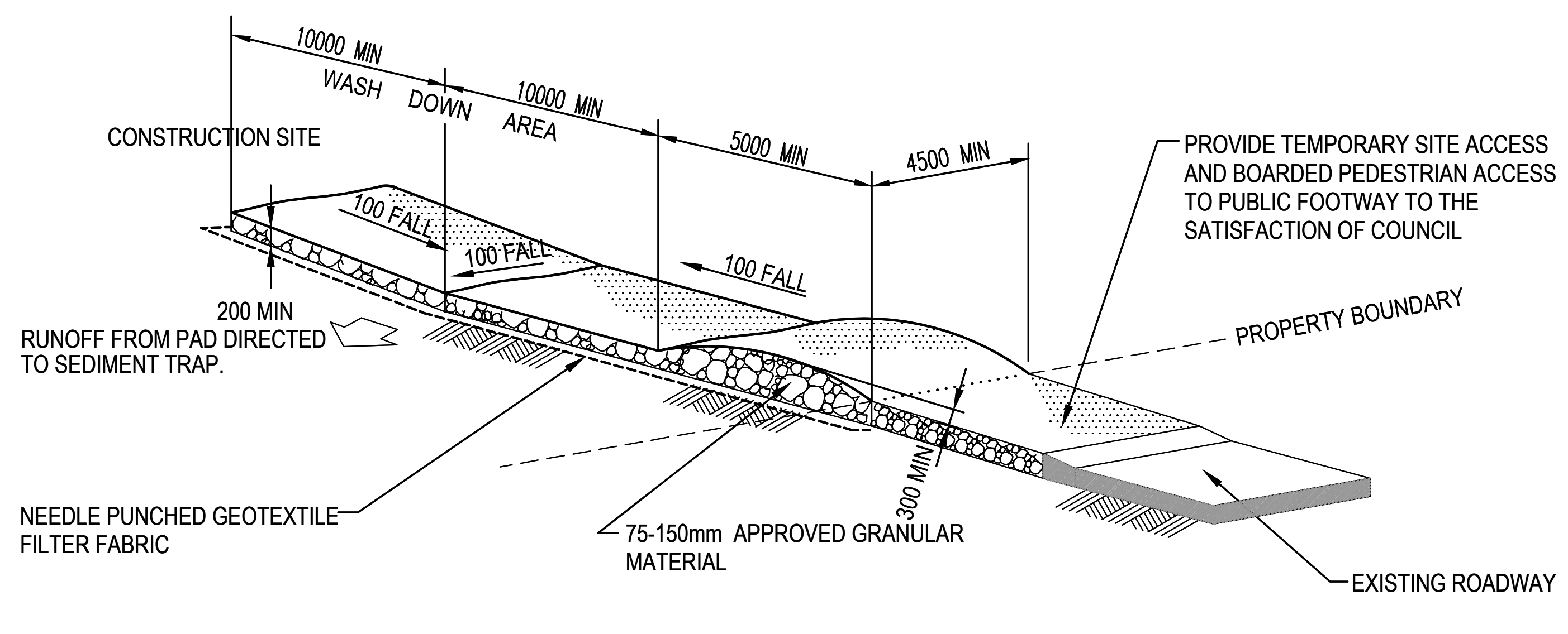
Status
FOR CONSTRUCTION
A1

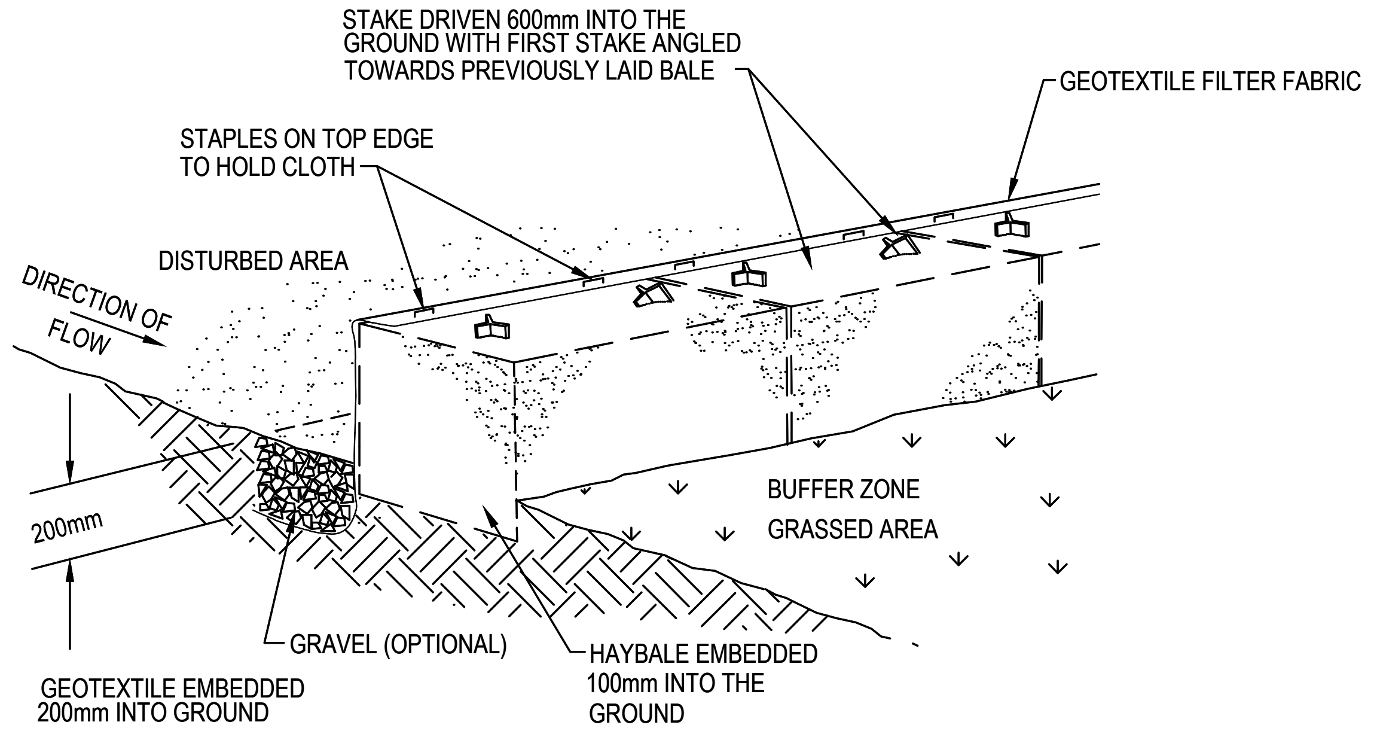
Project - Drawing No.
21-860-C3042

Issue
01



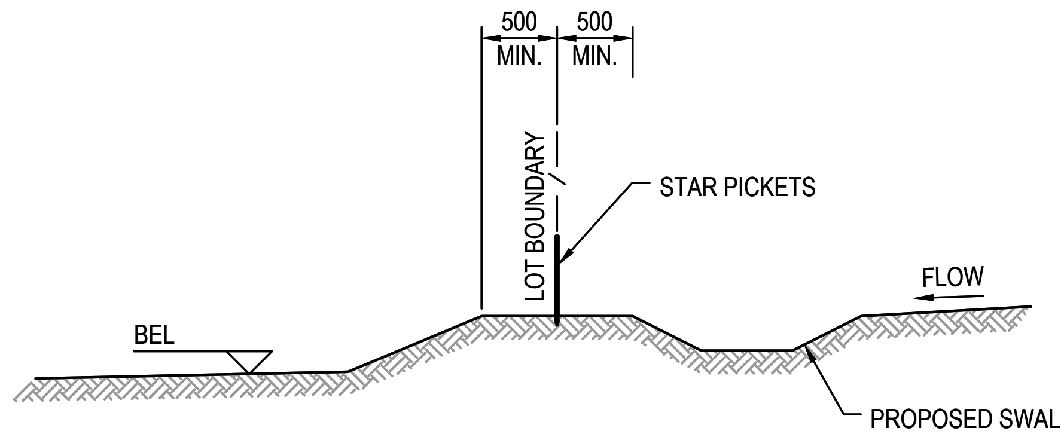
STABILISED SITE ACCESS AND TRUCK WASH DOWN AREA

NTS



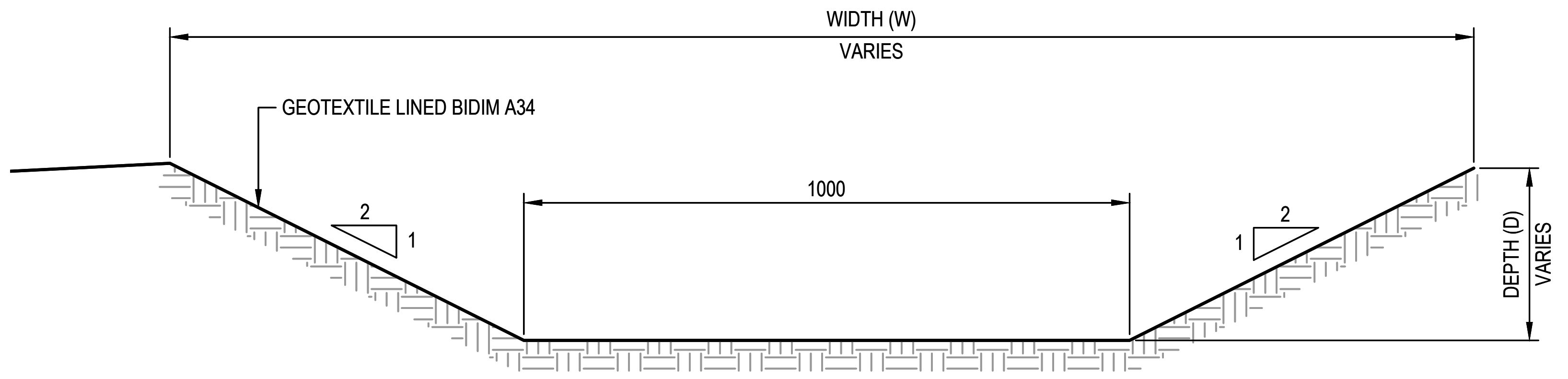
HAYBALE AND GEOTEXTILE SEDIMENT FILTER

NTS



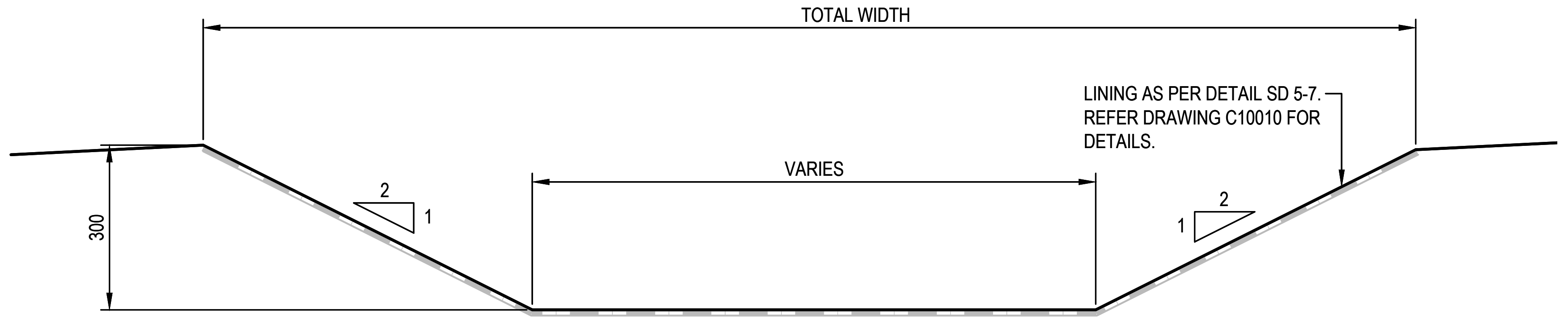
TYPICAL LOT BOUNDARY DETAIL

SCALE 1 : 50



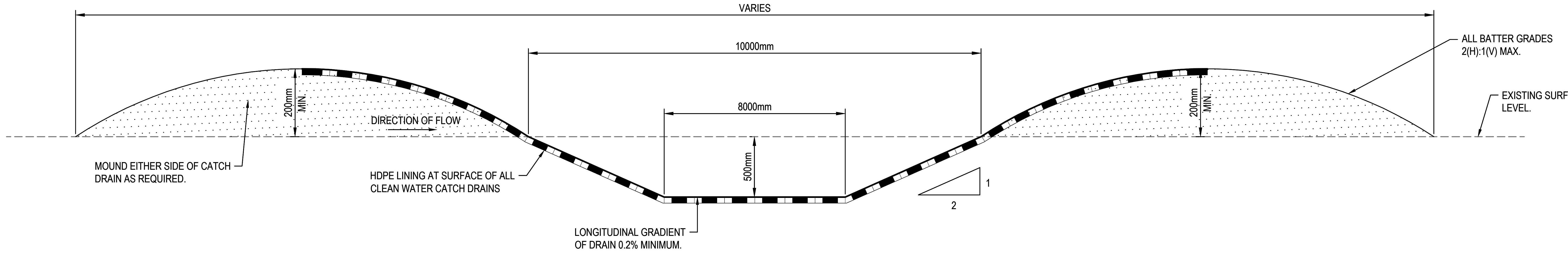
CATCH DRAIN - (DIRTY WATER)

SCALE 1:10



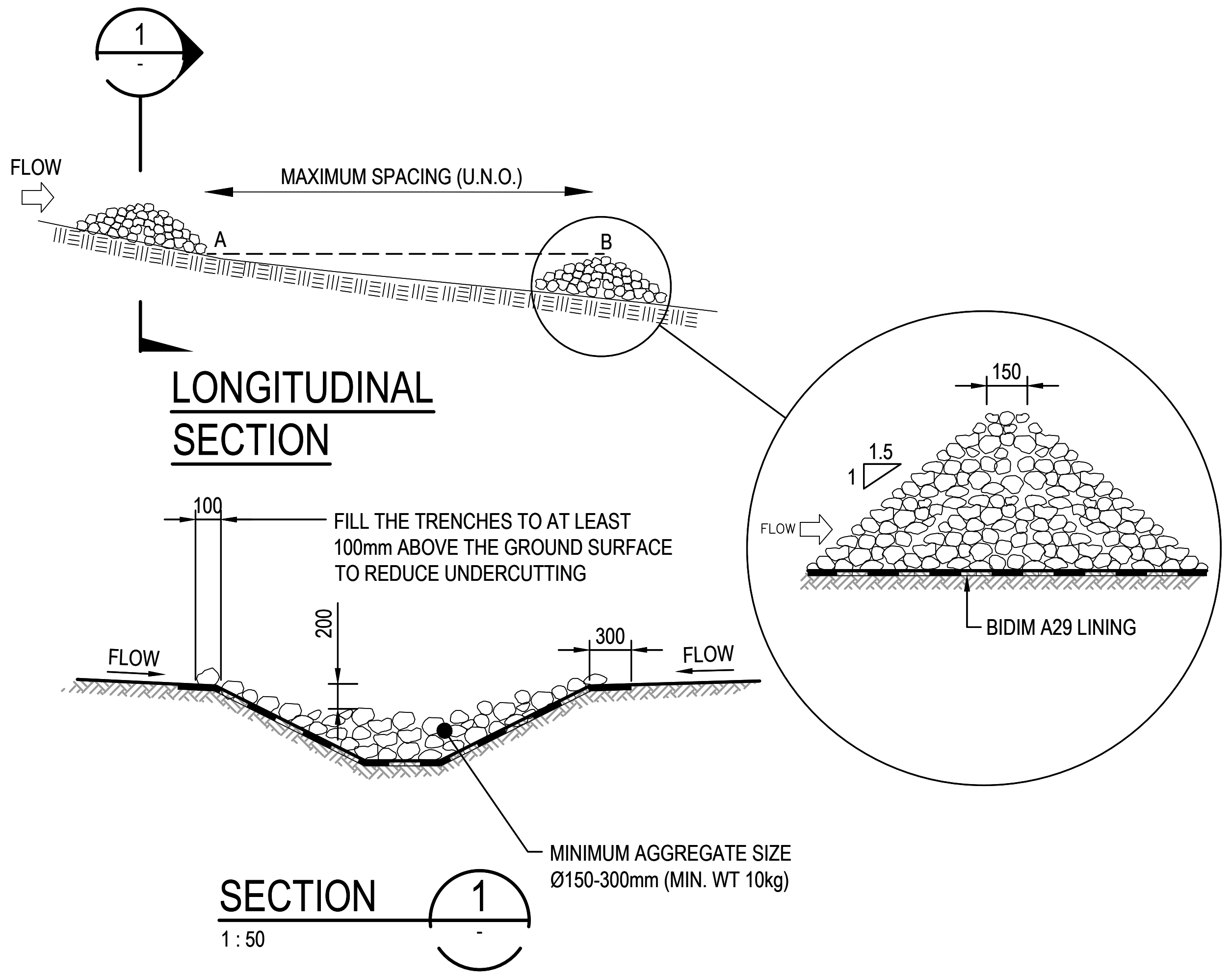
SPILLWAY DETAIL - (DIRTY WATER)

SCALE 1:10



CLEAN WATER DIVERSION

SCALE 1:10



ROCK RIFFLE CHECK DAM (SD 5-4)

SCALE 1 : 50

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
C	ISSUED FOR APPROVAL	22-09-25
B	ISSUED FOR APPROVAL	23-07-25
A	90% DRAWINGS ISSUED FOR TENDER PURPOSES	26-03-25

Bar Scales

100mm on Original

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Client

ICON OCEANIA

Scales	AS SHOWN	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
EROSION AND SEDIMENT CONTROL DETAILS
SHEET 1

Civil Engineers and Project Managers

at&l

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Status
FOR CONSTRUCTION
A1

Project - Drawing No.
21-860-C3050

Issue
01

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SOIL ANALYSIS

SOIL LANDSCAPE	LUDDENHAM
SOIL TEXTURE GROUP	TYPE D

RAINFALL DATA

RAINFALL INTENSITY: 2-YEAR, 6-HOUR STORM	9.04
RAINFALL EROSIVITY (R-FACTOR)	1870
VOLUMETRIC RUNOFF COEFFICIENT (CV)	0.64

BASIN SPILLWAYS

DESIGN EVENT	10% AEP
MAX. DEPTH OF FLOW OVER SPILLWAY IN DESIGN EVENT	0.3 m
WEIR COEFFICIENT	1.6

RUSLE

R =	1831	0.5 EY 6hr RAINFALL INTENSITY = 8.95mm/hr
K =	0.038	LUDDENHAM SOIL LANDSCAPE, REFER BLUE BOOK
LS =	3.12	BASED ON FLOW PATH LENGTH 200m, GROUND SLOPE 7%
P =	1.3	COMPACTED AND SMOOTH BARE EARTH
C =	1	ASSUMING NO GROUND COVER
RUSLE =	**282.2**	**t/ha/yr**

ASSUMED MAXIMUM BASIN CLEAN OUR FREQUENCY 6 MONTHS

STANDARD BASIN GEOMETRY
(ADOPTED UNLESS NOTED OTHERWISE)

SETTLING ZONE DEPTH = 2.00 m
LENGTH : WIDTH RATIO = 3
INTERNAL BATTER SLOPE = 1 IN 2

DEEMED TO COMPLY TYPE-D SEDIMENT BASIN VOLUME (MINIMUM 900m^3/ha)	CATCHMENT AREA (ha)	ADOPTED TYPE-D BASIN VOLUME		APPROX. BASIN DIMENSIONS AT SPILLWAY		NOTES
		SETTLING ZONE (m^3)	SEDIMENT STORAGE ZONE (m^3)	WIDTH (m)	LENGTH (m)	
PHASE 1 - SITE ESTABLISHMENT						
LOT 2 BASIN (SB3) - REFER TO DRAWING C3032	7.65	6890	870	EXISTING FARM DAM TO BE AUGMENTED (FOOTPRINT EXTENDED AND EMBANKMENT RAISED) TO PROVIDE REQUIRED VOLUME		
PHASE 2 - SITE GRUBBING AND BULK EARTHWORKS						
LOT 2 BASIN (SB3) - REFER TO DRAWING C3032	7.65	6890	870	SEDIMENT BASIN INSTALLED IN PHASE 1		
PHASE 3 - CIVIL WORKS AND TRUNK DRAINAGE CHANNEL WORKS						
LOT 1A BASIN (SB1) - REFER TO DRAWING C3030	1.71	1540	200	20.0	60.1	TEMPORARY BASIN WITHIN PROPOSED LOT 1
LOT 1B & 1C BASIN (SB2) - REFER TO DRAWING C3031	2.94	2650	340	25.0	75.0	TEMPORARY BASIN WITHIN PROPOSED LOT 2
LOT 2 BASIN (SB3) - REFER TO DRAWING C3032	N/A	6890	870	SEDIMENT BASIN INSTALLED IN PHASE 1 TO BE RETAINED AS BUFFER STORAGE AND TREATMENT CAPACITY		
PHASE 4 - COMPLETION OF ESTATE CIVIL AND TRUNK DRAINAGE CHANNEL WORKS						
NO SEDIMENT BASINS REQUIRED - ON-LOT AND ESTATE WORKS COMPLETE AND NATURALISED TRUNK DRAINAGE CHANNEL WORKS SUFFICIENTLY STABILISED						

Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
A	ISSUED FOR APPROVAL	22-09-25

100mm on Original

Bar Scales

Client
ICON
OCEANIA

Scales	N/A	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
SEDIMENT BASIN
VOLUME
CALCULATIONS

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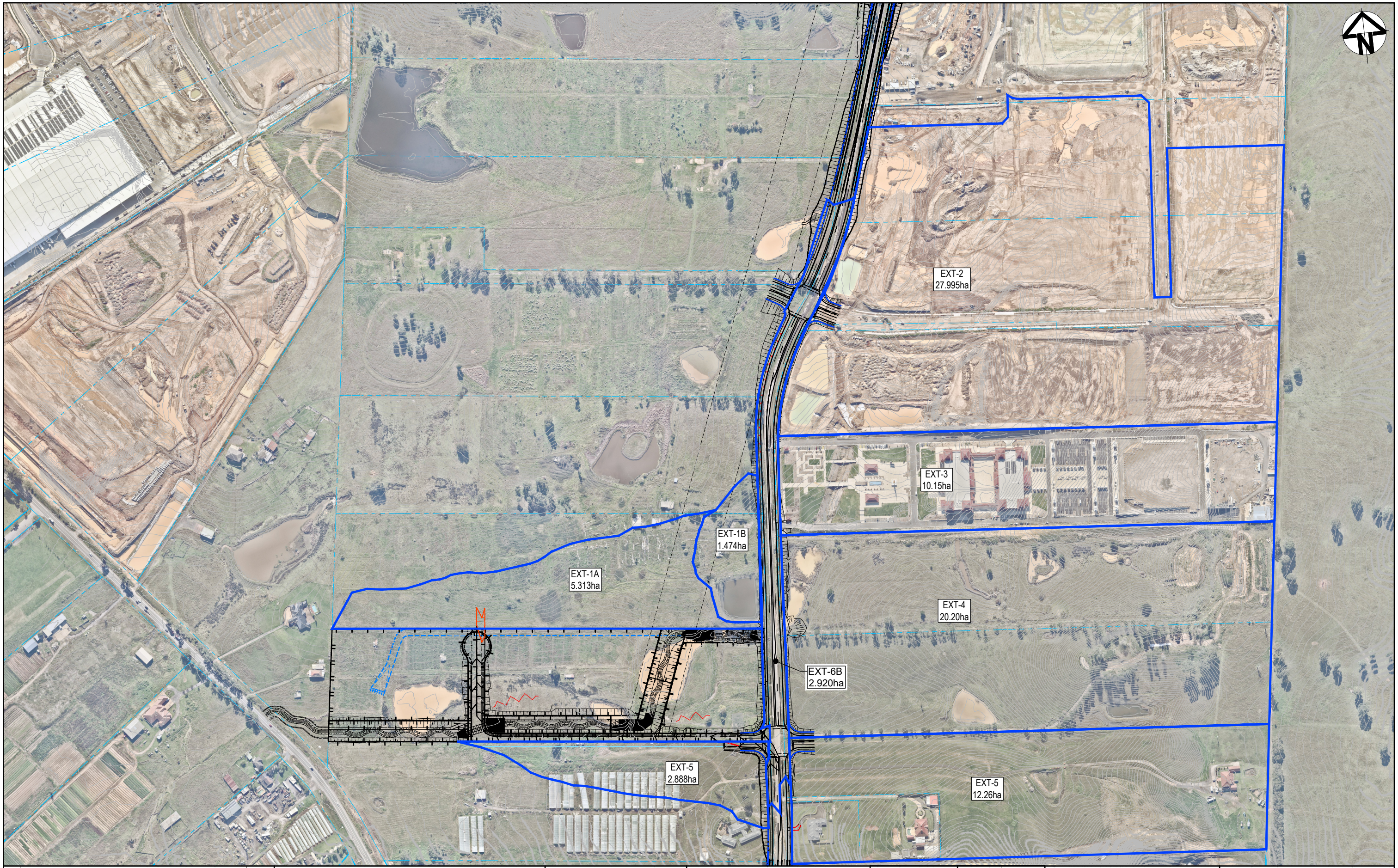
Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3051
Issue 01



Issue	Description	Date
01	ISSUED FOR CONSTRUCTION	20-10-25
A	ISSUED FOR APPROVAL	22-09-25

Bar Scales

0 50 100 150 200 250m

1 : 2500 @ A1

100mm on Original

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Client

ICON
OCEANIA

Scales	1 : 2500	Drawn	ASD
		Designed	TM
Grid	GDA 2020	Checked	MM
Height Datum	AHD	Approved	

GDA2020

Project
SSD-23480429
253-267 ALDINGTON RD
KEMPS CREEK

Title
CATCHMENT PLAN

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Status FOR CONSTRUCTION
A1

Project - Drawing No. 21-860-C3060
Issue 01

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