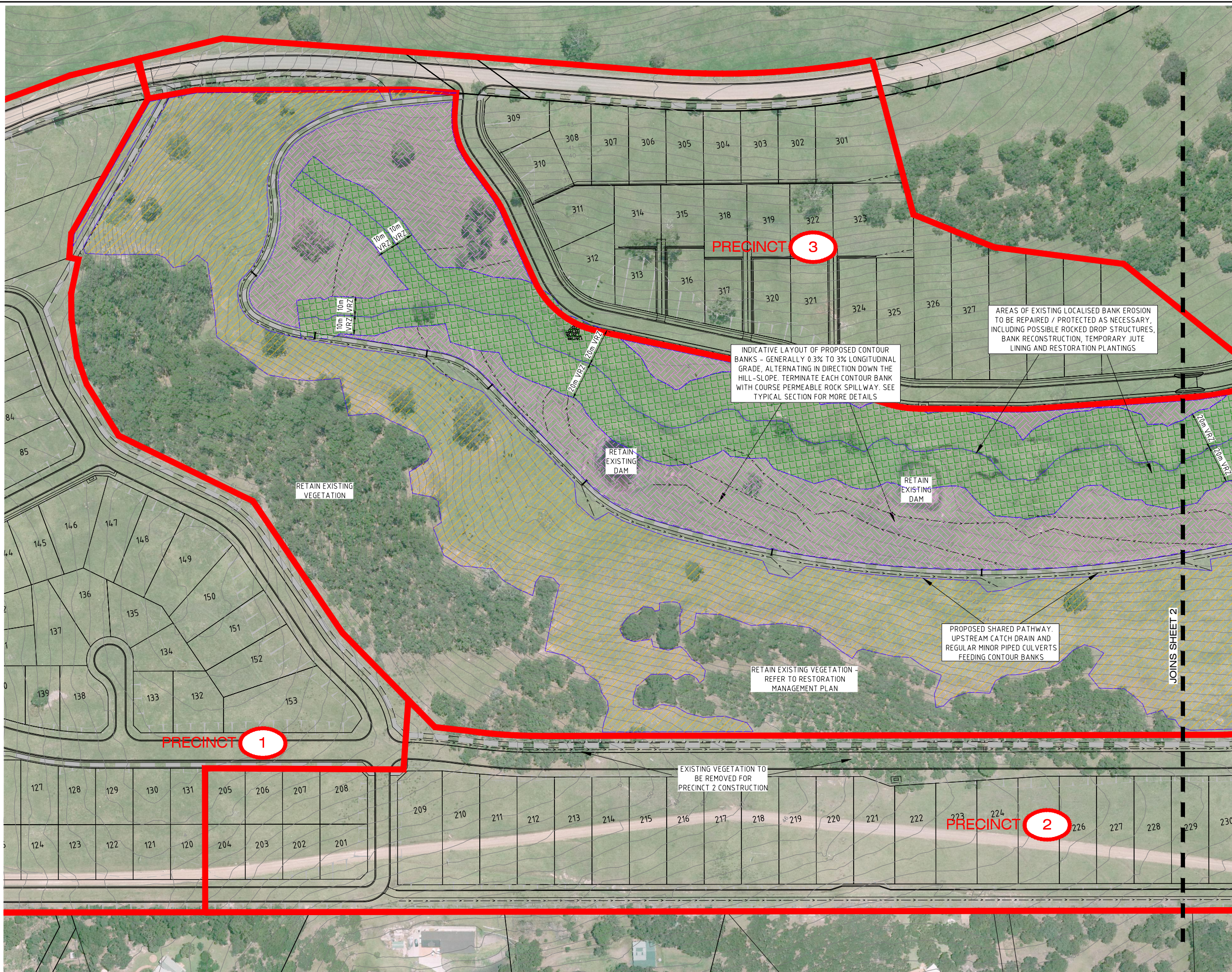




LEGEND	
REHABILITATION AREA TYPE 1	
REHABILITATION AREA TYPE 2	
REHABILITATION AREA TYPE 3	

INDICATIVE LAYOUT OF PROPOSED CONTOUR BANKS - GENERALLY 0.3% TO 3% LONGITUDINAL GRADE, ALTERNATING IN DIRECTION DOWN THE HILL-SLOPE. TERMINATE EACH CONTOUR BANK WITH COURSE PERMEABLE ROCK SPILLWAY. SEE TYPICAL SECTION FOR MORE DETAILS

AREAS OF EXISTING LOCALISED BANK EROSION TO BE REPAIRED / PROTECTED AS NECESSARY, INCLUDING POSSIBLE ROCKED DROP STRUCTURES, BANK RECONSTRUCTION, TEMPORARY JUTE LINING AND RESTORATION PLANTINGS

RETAIN EXISTING DAM

RETAIN EXISTING DAM

RETAIN EXISTING VEGETATION - REFER TO RESTORATION MANAGEMENT PLAN

PROPOSED SHARED PATHWAY, UPSTREAM CATCH DRAIN AND REGULAR MINOR PIPED CULVERTS FEEDING CONTOUR BANKS

EXISTING VEGETATION TO BE REMOVED FOR PRECINCT 2 CONSTRUCTION

REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE
B	Amended per Council Comments	AV	AV	BF*	BL*	6/8/20*
A	Original Issue	AV	AV	BF*	BL*	18/4/18*

* Denote the original signature and date when revision was issued.

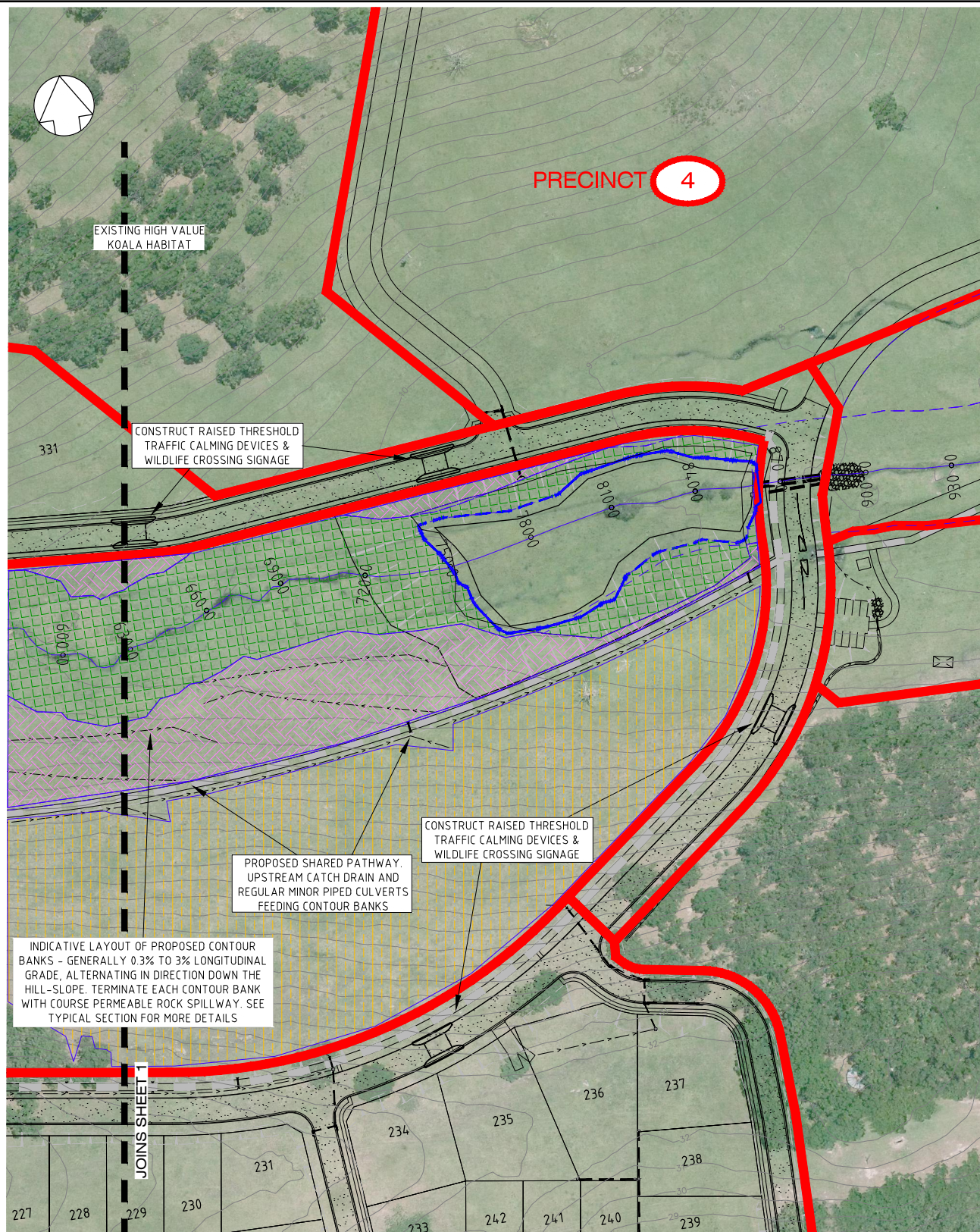
TATTERSALL LANDER PTY LTD
DEVELOPMENT CONSULTANTS
ENGINEERING, SURVEYING & PLANNING
2 Bourke St. P.O.Box 580
RAYMOND TERRACE 2324
Fax (02) 49871733 Phone (02) 49871500



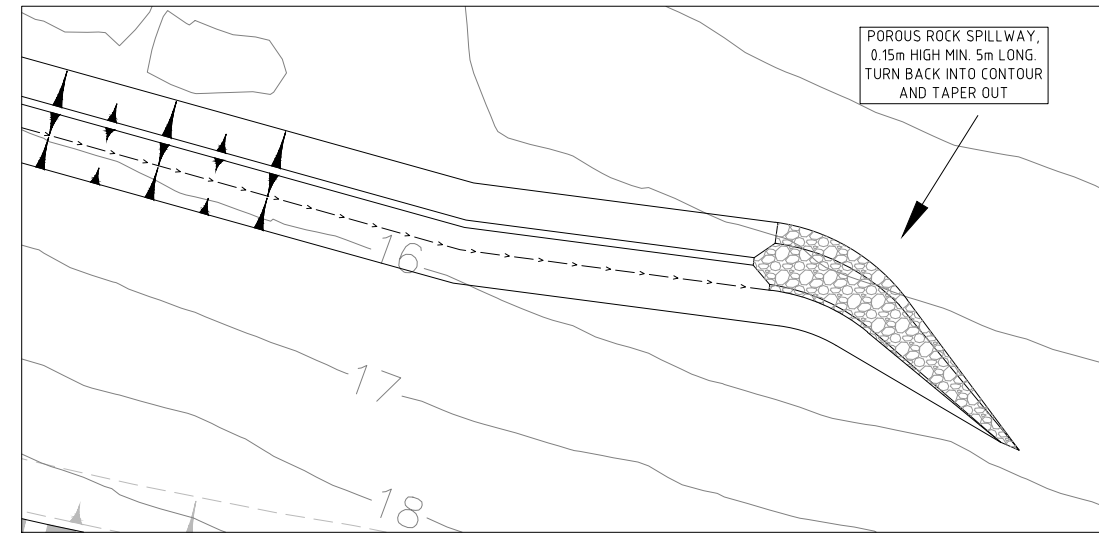
PRECINCT 3 RIPARIAN CORRIDOR REHABILITATION PLAN
PHYSICAL WORKS SHEET 1
DURNESSE STATION
VINEY CREEK RD, TEA GARDENS

CLIENT: WOLIN INVESTMENTS JOB No.: 205532 COMPUTER FILE : S:\projects\North Shearwater\DWG\Restoration Plans.dwg

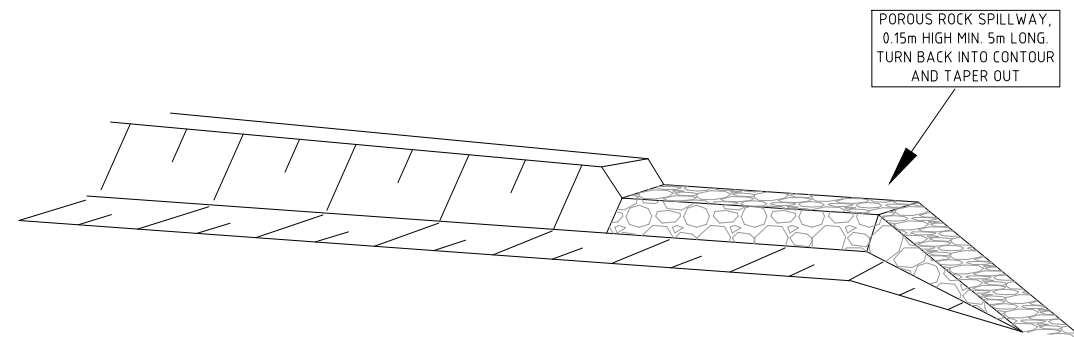
COUNCIL MIDCOAST	REFERENCE 21800076
PARISH	SHEET SIZE A3
SCALE 1:2000 on A3	SHEET No. 1 OF 3
DATE :	Plotted 13/10/30/07/18



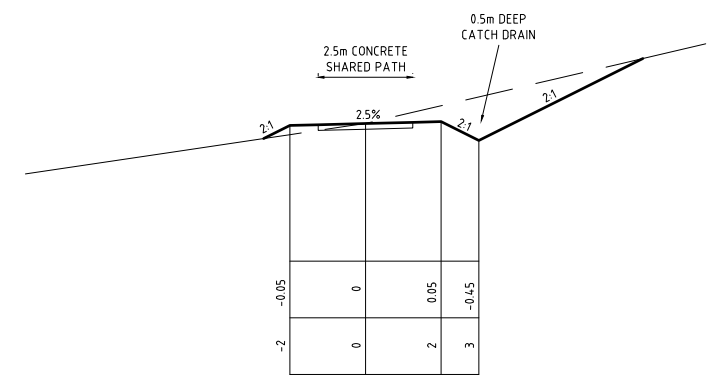
LEGEND	
REHABILITATION AREA TYPE 1	
REHABILITATION AREA TYPE 2	
REHABILITATION AREA TYPE 3	



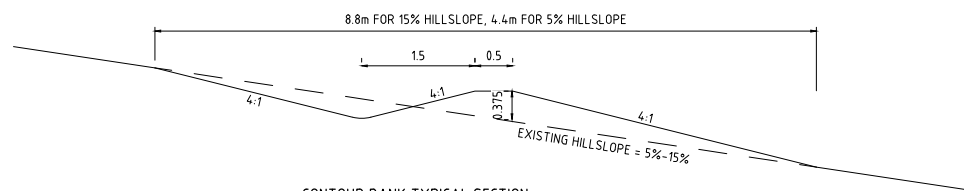
CONTOUR BANK LEVEL SPREADER TYPICAL DETAIL
1:500



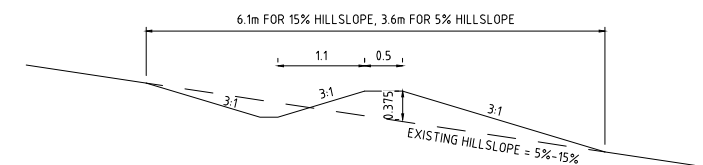
- NOTES:
1. BUILD WITH TYPICAL GRADIENTS OF 0.3%-1%
 2. AVOID REMOVING EXISTING TREES AND SHRUBS WHERE POSSIBLE
 3. PROVIDE 'ROUND' BASE, RATHER THAN SHARP V-SHAPE
 4. ENSURE BANKS ARE PROPERLY COMPACTED TO PREVENT FAILURE
 5. SEED IN ACCORDANCE WITH THE 'BLUE BOOK' TO PROVIDE INITIAL SCOUR PROTECTION WHILE REGENERATION PROCEEDS



SHARED PATHWAY TYPICAL SECTION
1:50 (NATURAL)



CONTOUR BANK TYPICAL SECTION
1:50 (NATURAL)



CONTOUR BANK TYPICAL SECTION
1:50 (NATURAL)

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PRECINCT 3 RIPARIAN CORRIDOR REHABILITATION PLAN
PHYSICAL WORKS SHEET 2
DURNESSE STATION
VINEY CREEK RD, TEA GARDENS

CLIENT: WOLIN INVESTMENTS

JOB No.: 205532

COMPUTER FILE: S:\projects\North Shearwater\DWG\Restoration Plans.dwg

COUNCIL MIDCOAST	REFERENCE 21800077
PARISH	SHEET SIZE A3
SCALE 1:2000 on A3	SHEET No. 2 OF 3
DATE :	Plotted 13/10/30/07/18

LEGEND	
REHABILITATION AREA TYPE 1	
REHABILITATION AREA TYPE 2	
REHABILITATION AREA TYPE 3	

PLANTING SCHEDULE AREA TYPE 1 – 5.38ha	
UPPER STRATUM	
SPECIES	DENSITY/ha
Corymbia maculata (Spotted Gum)	30
Eucalyptus siderophloia (Grey Ironbark)	50
Eucalyptus canaliculata (Grey Gum)	50
Eucalyptus tereticornis (Forest Red Gum)	60
Corymbia gummifera (Red Bloodwood)	25
Stratum Subtotal	215
MIDDLE STRATUM	
SPECIES	DENSITY/ha
Acacai myrtifolia (Myrtle Wattle)	20
Acacia ulicifolia (Prickly Moses)	20
Pultenaea refusa (Notched Bush-pea)	25
Pultenaea villosa (Hairy Bush-pea)	35
Xanthorrhoea macronema	20
Macrozamia communis (Burrawang)	10
Hibbertia diffusa (Wedge Guinea Flower)	20
Hibbertia linearis	30
Leucopogon juniperinus (Prickly Beard-heath)	30
Stratum Subtotal	210
PROSTRATE (LOWER) STRATUM	
SPECIES	DENSITY/ha
Dianella caerulea var. producta	100
Imperata cylindrica (Blady Grass)	100
Lomandra filiformis (Wattle Mat-rush)	80
Lomandra longifolia (Spiney-headed Mat-rush)	20
Lomandra multiflora (Many-flowered Mat-rush)	40
Stratum Subtotal	340
Total density =	765
TOTAL PLANTINGS = 4115	

PLANTING SCHEDULE AREA TYPE 2 – 2.97ha	
UPPER STRATUM	
SPECIES	DENSITY/ha
Corymbia maculata (Spotted Gum)	15
Eucalyptus siderophloia (Grey Ironbark)	30
Eucalyptus canaliculata (Grey Gum)	20
Eucalyptus tereticornis (Forest Red Gum)	40
Eucalyptus robusta (Swamp Mahogany)	40
Eucalyptus acmenoides (White Mahogany)	20
Corymbia gummifera (Red Bloodwood)	25
Angophora costata (Sydney Reg-gum)	20
Stratum Subtotal	210
MIDDLE STRATUM	
SPECIES	DENSITY/ha
Acacai myrtifolia (Myrtle Wattle)	20
Acacia ulicifolia (Prickly Moses)	25
Pultenaea refusa (Notched Bush-pea)	30
Pultenaea villosa (Hairy Bush-pea)	20
Glochidion ferdinandi (Cheese tree)	20
Leucopogon juniperinus (Prickly Beard-heath)	20
Macrozamia communis (Burrawang)	10
Hibbertia diffusa (Wedge Guinea Flower)	10
Hibbertia linearis	30
Callistemon salignus (willow Bottlebrush)	20
Callistemon rigidus (Stiff Bottlebrush)	20
Stratum Subtotal	225
PROSTRATE (LOWER) STRATUM	
SPECIES	DENSITY/ha
Dianella caerulea var. producta	50
Imperata cylindrica (Blady Grass)	40
Lomandra filiformis (Wattle Mat-rush)	80
Lomandra longifolia (Spiney-headed Mat-rush)	30
Lomandra multiflora (Many-flowered Mat-rush)	30
Poa labillardierei (Tussock Grass)	30
Stratum Subtotal	260
Total density =	695
TOTAL PLANTINGS = 2065	

PLANTING SCHEDULE AREA TYPE 3 – 2.83ha	
UPPER STRATUM	
SPECIES	DENSITY/ha
Archontophoenix cunninghamiana (Bangalow Palm)	15
Eucalyptus siderophloia (Grey Ironbark)	30
Eucalyptus canaliculata (Grey Gum)	20
Eucalyptus microcorys (Tallowwood)	40
Eucalyptus robusta (Swamp Mahogany)	40
Eucalyptus acmenoides (White Mahogany)	20
Corymbia gummifera (Red Bloodwood)	25
Angophora costata (Sydney Reg-gum)	20
STRATUM SUBTOTAL	210
MIDDLE STRATUM	
SPECIES	DENSITY/ha
Acacai myrtifolia (Myrtle Wattle)	20
Acacia ulicifolia (Prickly Moses)	25
Pultenaea refusa (Notched Bush-pea)	30
Glochidion ferdinandi (Cheese tree)	20
Macrozamia communis (Burrawang)	20
Hibbertia linearis	30
Callistemon salignus (willow Bottlebrush)	20
Callistemon rigidus (Stiff Bottlebrush)	20
Stratum Subtotal	185
PROSTRATE (LOWER) STRATUM	
SPECIES	DENSITY/ha
Gahnia sieberiana (Red-fruit saw sedge)	50
Lomandra longifolia (Spiney-headed Mat-rush)	30
Lomandra multiflora (Many-flowered Mat-rush)	30
Poa labillardierei (Tussock Grass)	30
Stratum Subtotal	140
Total density =	535
TOTAL PLANTINGS = 1520	

NOTES
- PLANTS MAY BE TUBE STOCK OR LARGER,
DEPENDING UPON AVAILABILITY.

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REV	DETAILS OF AMENDMENT	DESIGNED	DRAWN	CHECKED	APPROVED	DATE	
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TATTERSALL LANDER PTY LTD DEVELOPMENT CONSULTANTS ENGINEERING, SURVEYING & PLANNING 2 Bourke St. P.O.Box 580 RAYMOND TERRACE 2324 Fax (02) 49871733 Phone (02) 49871500	PLANTING SCHEDULE			COUNCIL MIDCOAST	REFERENCE 21800078	
				PARISH	SHEET SIZE	A3
				SCALE 1:2000 on A3	SHEET No. 3 OF 3	
				DATE : Plotted 13:10 30/07/18		
	CLIENT: WOLIN INVESTMENTS		JOB No.: 205532	COMPUTER FILE : S:\projects\North Shearwater\Dwg\Restoration Plans.dwg		