LITTLE YARRA RIVER TRAIL

WARBURTON RAIL TRAIL TO RIVERSDALE ROAD, YARRA JUNCTION LANDSCAPE CONSTRUCTION PACKAGE - FOR TENDER

DRAWING SCHEDULE

LOOO LEGEND & GENERAL NOTES

LOO1 SITE PLAN

100 SERIES - PATH ALIGNMENT

- L101 WARBURTON RAIL TRAIL TO DRAIN CROSSING
- L102 DRAIN CROSSING TO RIVER MEANDER
- L103 RIVER MEANDER TO WARBURTON HIGHWAY
- L104 WARBURTON HIGHWAY TO LARGE MANNA GUMS
- L105 YARRA-SILVAN CONDUIT RESERVE TO LITTLE YARRA RIVER
- L106 YARRA-SILVAN CONDUIT RESERVE TO RIVERSDALE ROAD

200 SERIES - DETAIL PLANS

- L201 WARBURTON RAIL TRAIL STEPS/RAMP & PICNIC AREA
- L202 DRAIN CROSSINGS FOR PEDESTRIAN AND MAINTENANCE VEHICLES
- L203 WETLAND VIEWING PLATFORM & GATED ENTRY
- L204 GATED ENTRY, TIMBER LOG SEAT & PATH UNDER MATURE MANNA GUM
- L205 PIPE TRACK CULVERT CROSSING, PRIVACY SCREEN & GATED ENTRY

300 SERIES - LANDSCAPE SECTIONS

- L301 WARBURTON RAIL TRAIL STEPS/RAMP
- L302 SEATING. MUDSTONE SEAT, LOG SEAT AND WETLAND VIEWING

400 SERIES - LANDSCAPE DETAILS

- L401 SURFACE FINISH & EDGING DETAIL
- L402 STEEL BARRIERS & HANDRAILS DETAIL
- L403 CULVERT BARRIERS & BOLLARD DETAIL
- L404 SCREEN CONCEPT DESIGN OPTIONS
- L405 CHAIN WIRE COVER FOR PIPE VALVE DETAIL

500 SERIES - PLANTING PLANS

- L501 PLANTING PLAN REVEGETATION ZONE 1
- L502 PLANTING PLAN REVEGETATION ZONE 2
- L503 PLANTING PLAN REVEGETATION ZONE 3
- L504 PLANTING PLAN REVEGETATION ZONE 4
- L505 PLANTING PLAN REVEGETATION ZONE 5
- L506 PLANT SCHEDULE

LEGEND

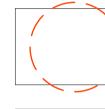




PROPOSED NEW LEVEL



EXISTING TREE TO BE RETAINED AND PROTECTED



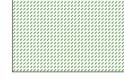
EXISTING TREE TO BE REMOVED



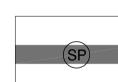
REVEGETATION ZONE - REFER TO DETAILED PLANTING PLANS FOR PLANTING ZONES



WETLAND REFER TO CIVIL DESIGN

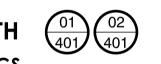


REFER TO ARBORIST REVIEW FOR CONSTRUCTION METHODS IN STRUCTURAL ROOT ZONE

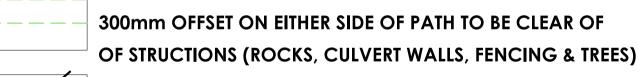


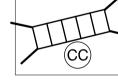
PROPOSED 2.5m SHARED PATH CEMENT STABILISED GRAVEL TOPPINGS











PROPOSED CULVERT CROSSING FOR SHARED PATH & MAINTENANCE VEHICLE



PROPOSED VIEWING PLATFORM



PROPOSED STEPS



PROPOSED CONCRETE $\binom{03}{401}$ **RETAINING PLINTH**



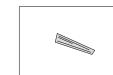
PROPOSED CONCRETE CULVERTS REFER TO DWG. L101,L102, L103, L105 FOR CULVERT SIZING & REQUIREMENT



PROPOSED ROCKWORK AT CULVERT LOCATIONS AS PER CIVIL DESIGN



PROPOSED ROCK SEAT



PROPOSED TIMBER LOG SEAT

GENERAL NOTES

PROPOSED COURSE WOOD HABITAT TO WETLAND

APPROX. LOCATION PROVIDED ONLY -EXACT LOCATION TO BE

CONFIRMED WITH UNDERGROUND SERVICE DETECTION AS REQUIRED

FLOOD WARNING SAFETY SIGNAGE

EXISTING UNDERGROUND PIPELINE

FENCING TYPE 01 - FULL BARRIER FENCING

FENCING TYPE 02- PARTIAL BARRIER FENCING

FENCING TYPE 03- PARTIAL BARRIER FENCING

BARRIER/FENCING TO WATER PIPE VALVES

TIMBER BOLLARDS WITH REFLECTORS $\binom{08}{403}$

FENCING TYPE 04- SCREEN FENCE TO PIPE TRACK $\binom{09}{404}$

TIMBER FENCE AS PER MW STANDARD

FENCING TYPE 05- STEEL SAFETY

MAY NOT BE REQUIRED

ROAD SAFETY BARRIERS $\binom{-}{203}$

(BY OTHERS)

EXISTING FENCE

MODDEX - AR30

MODDEX BIKESAFE -BS40

MODDEX BIKESAFE - BS30

HANDRAIL

F2)-

 $\widehat{\mathsf{RB}}$

- PLEASE NOTE THAT EXISTING CONTOURS AND LEVELS ARE NOT SHOWN FOR THE ENTIRE EXTENT OF TRAIL ALIGNMENT, SUCH AS ON PIPE RESERVE AND ROAD AND
- PATH TO (GENERALLY) FOLLOW EXISTING GRADIENT, UNLESS NOTED OTHERWISE
- PATH EXCAVATION DEPTH NOT TO EXCEED 150mm (REFER TO TYPICAL DETAIL)
- SITE VISIT IS STRONGLY RECOMMENDED BEFORE TENDERING AND CONSTRUCTION SUPERINTENDENT TO CHECK SETOUT BEFORE CONSTRUCTION

PATH EDGE TREATMENT:

• REFER TO SECTIONS FOR TREATMENT OF BATTERS AND SET OUT BARRIER FENCING

PATH & BARRIER ALIGNMENT DESIGN:

- TO BE CONSTRUCTED TO 'SHARED PATH AUSROADS STANDARD'
- REQUIREMENTS FOR FENCE BARRIERS AT BATTERS AND VERTICAL DROPS AS SHOWN IN DETAIL SHEETS
- REFER TO DETAIL DESIGN AND ENGINEER FOR PARTIAL AND FULL BARRIER FENCING FULL BARRIER OR PARTIAL BARRIER FENCING AS REQUIRED TO SHARDED PATH AT
- CULVERT DROP OFFS
- STEEP EMBANKMENT
- AT SMALL CULVERT CROSSING LOCATIONS, WHERE FULL OR PARTIAL BARRIERS ARE

SPLAYED ENDS TO BARRIER FENCING TO BE INSTALLED TO AUSROAD STANDARDS

NOT REQUIRED, PLEASE ALLOW FOR INSTALLATION OF TIMBER BOLLARDS WITH REFLECTORS

PATH CONSTRUCTION IN TREE TPZ & SRZ:

- TO ENSURE MANNA GUM IS NOT EXCESSIVELY COMPROMISED IT IS RECOMMENDED THAT:
- INSTALL PATH ABOVE GROUND WHERE THE TPZ EXTENDS REMOVE 50mm TURF/ORGANIC LAYER ONLY WITHIN TPZ/SRZ
- ALL EARTHWORKS IN SRZ MUST BE DONE BY HAND, ROOT >50mm DIAMETER MUST
 - NOT BE SERVERED (RAISE PATH WITH FILL/WHERE NECESSARY)

INSTALL TEMPORARY FENCING FOR TPZ AREA WHERE WORKS ARE NOT ESSENTIAL

BUILDER TO REPORT ANY DOCUMENTATION DISCREPANCIES TO THE MELBOURNE WATER PROJECT MANGER PRIOR TO THE COMMENCEMENT OF ANY WORKS

FIGURED DIMENSIONS TO TAKE PRECEDENCE OVER SCALED MEASUREMENTS.

ALL CONSTRUCTION MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH THE BUILDING CODE OF AUSTRALIA AND RELEVANT AUSTRALIAN STANDARDS.

THE LANDSCAPE DRAWINGS ARE TO BE READ IN CONJUNCTION WITH STRUCTURAL AND CIVIL ENGINEERS DOCUMENTATION FOR DETAIL DESIGN

CONTRACTORS MUST VERIFY ALL DIMENSIONS ON SITE BEFORE COMMENCING ANY WORK OR MAKING SHOP DRAWINGS.

TERMITE TREATMENT TO LOCAL AUTHORITY GUIDELINES.

ALL EXTERNAL STEEL WORK TO BE HOP DIPPED GALVANIZED.

ALL EXPOSED TIMBER TO BE DRESSED.

ALL FITTINGS AND FIXTURES INSTALLED TO MANUFACTURES RECOMMENDATIONS

WARNING:

THE CONTRACTOR MUST CONTACT ALL SERVICE AUTHORITIES AND VERIFY THE LOCATION OF ALL SERVICES ON SITE PRIOR TO COMMENCING WORKS AND ALSO CONFIRM THAT THERE ARE NO OTHER ASSETS OWNED BY ANY OTHER ENTITY WHICH MAY BE AFFECTED BY

THERE IS NO GUARANTEE THAT ALL SERVICES ARE SHOW

UNDERGROUND PIPE ALIGNMENT IN PIPELINE RESERVES IS APPROX. ONLY AND WILL NEED TO BE CHECK AS REQUIRED.



XX

DRAFT

Melbourne Water

Warburton Rail Trail to Riversdale Road Yarra Junction

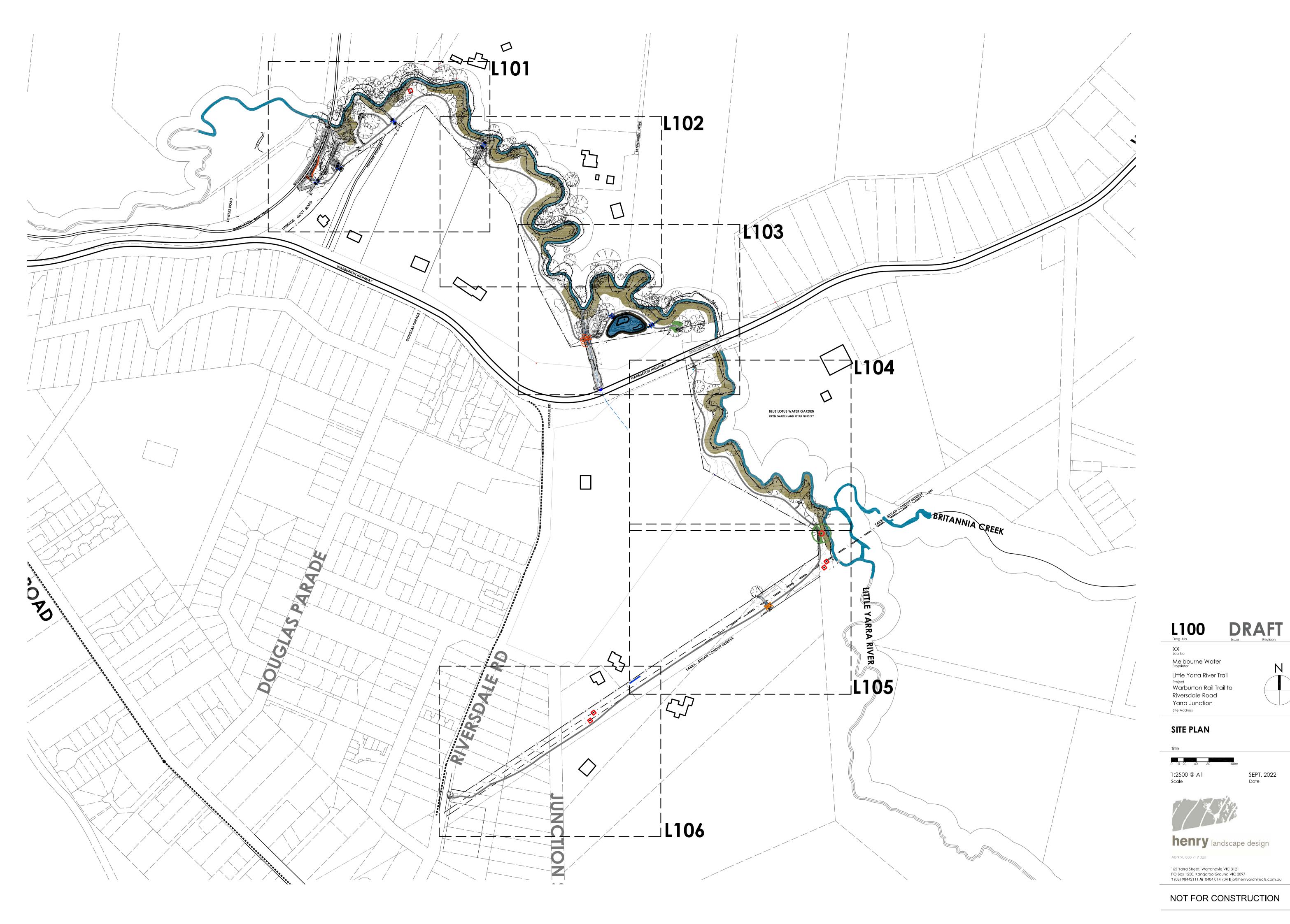
Little Yarra River Trail

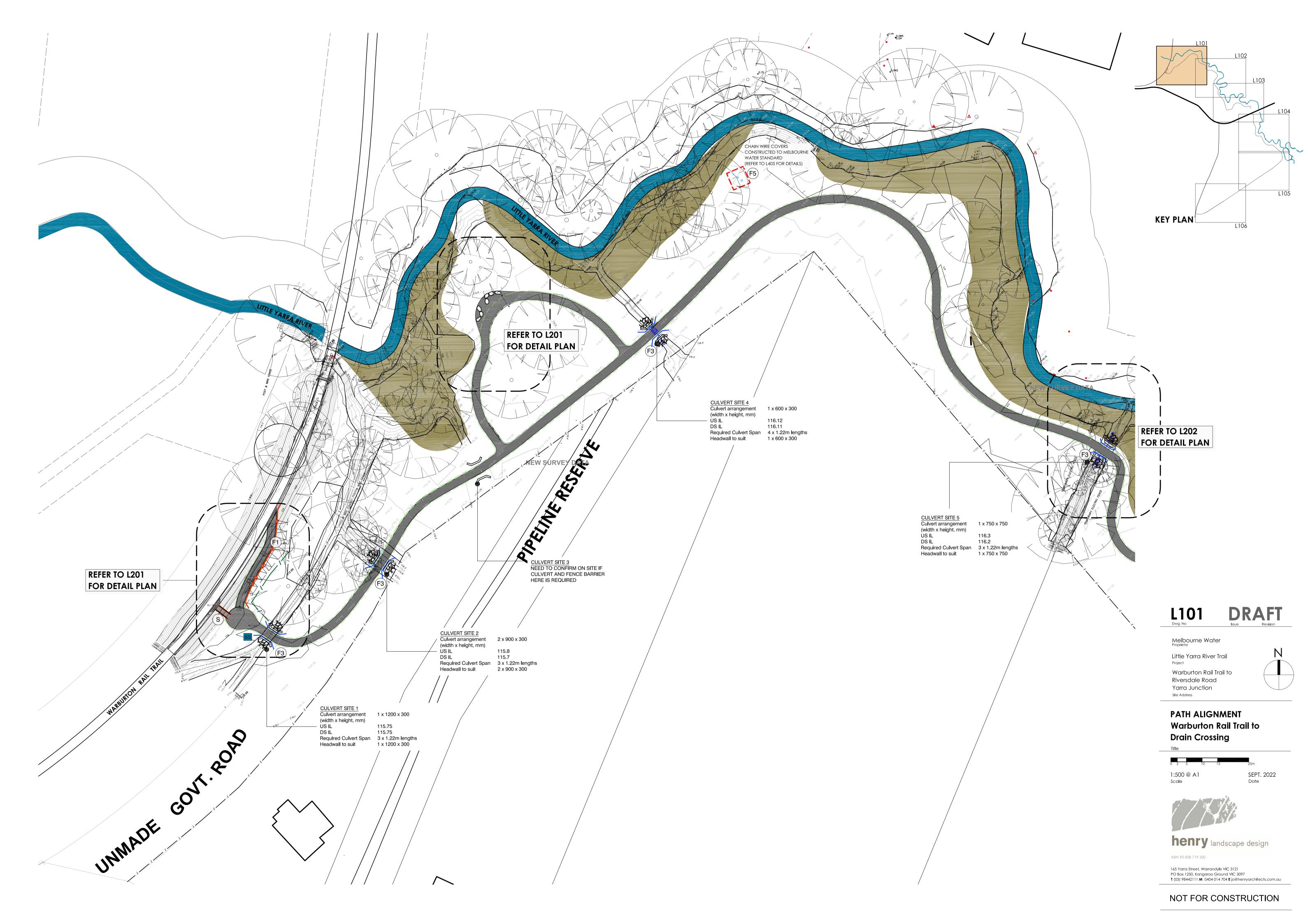
DRAWING SCHEDULE, **NOTES & LEGEND**



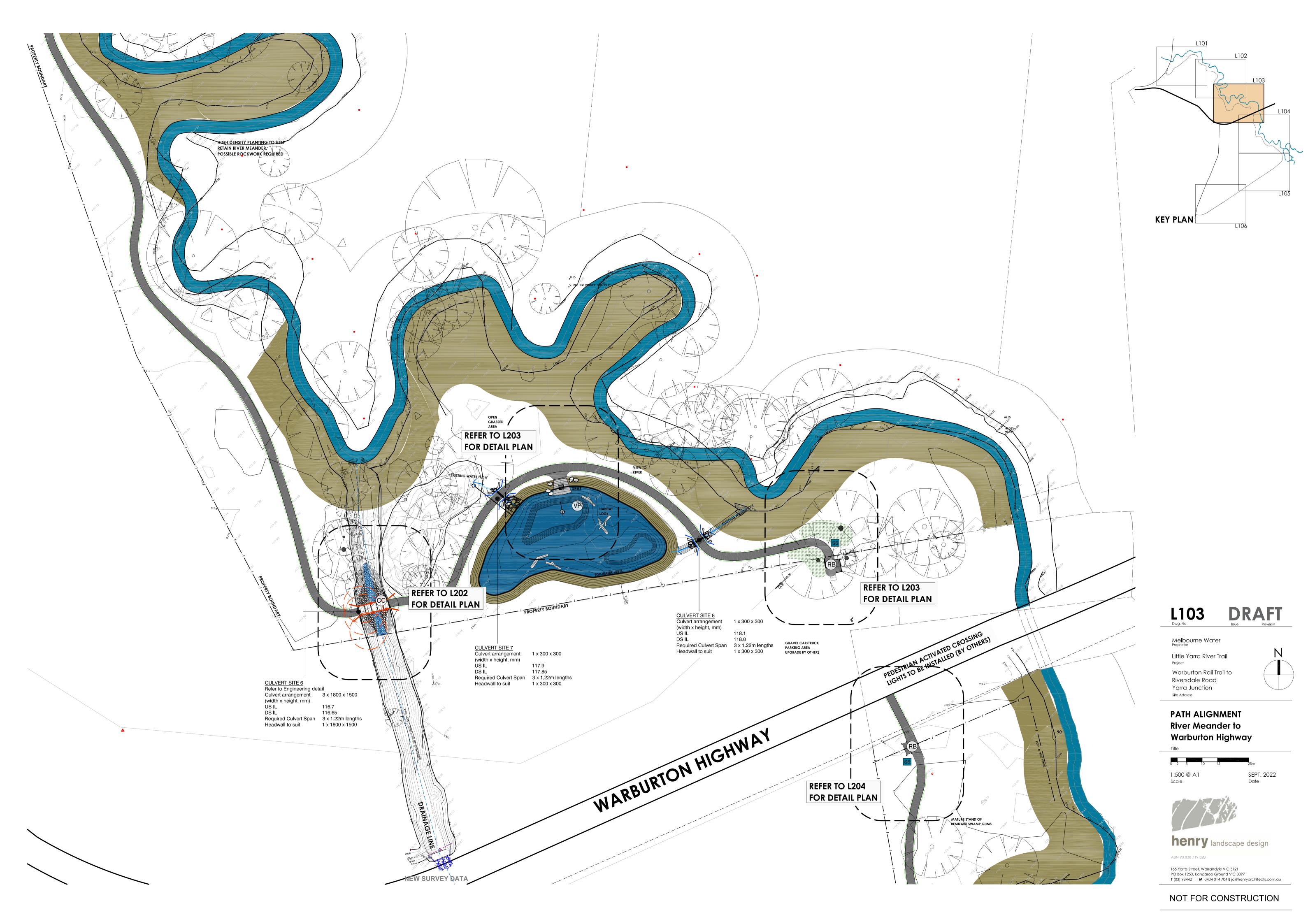
henry landscape design

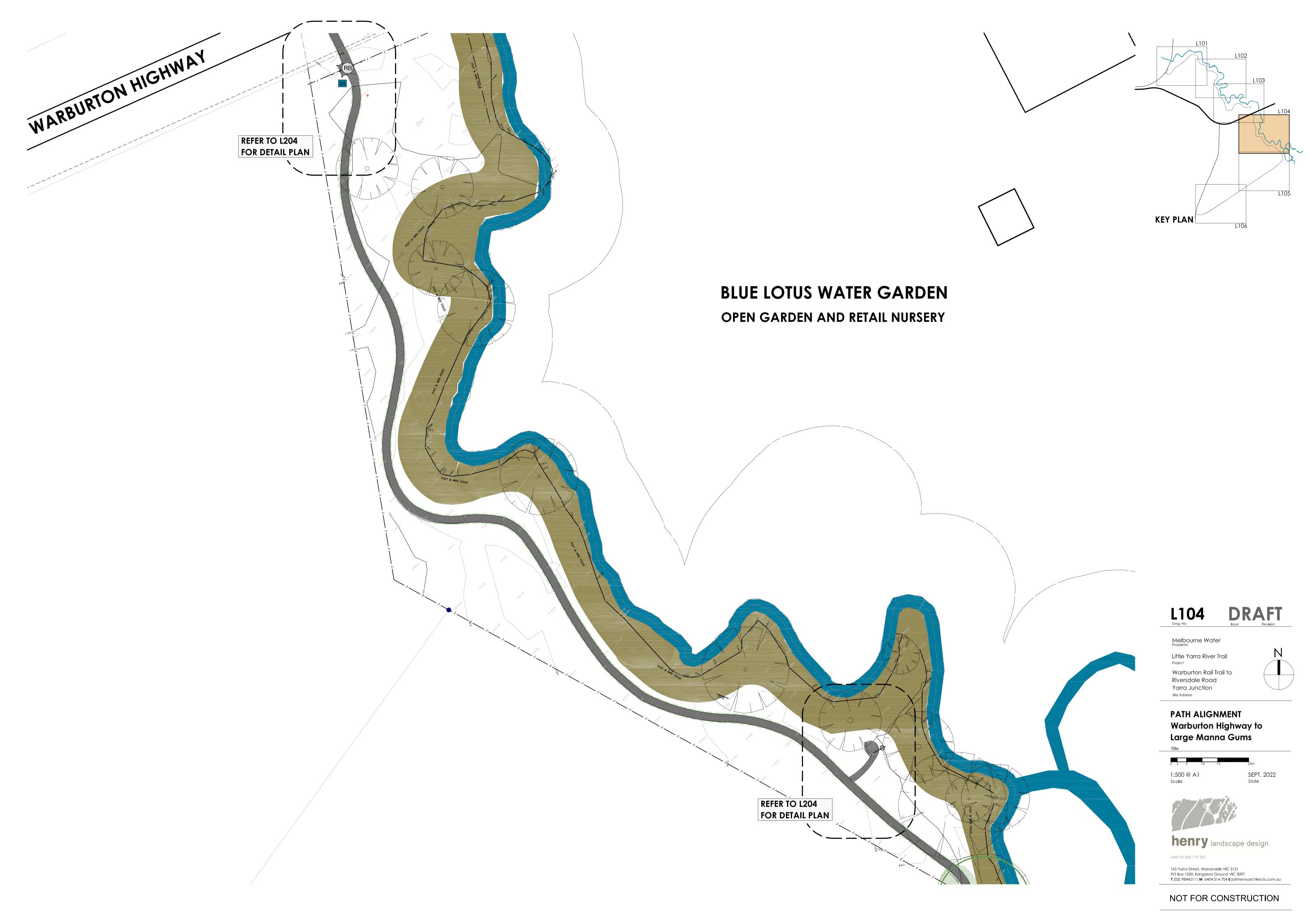
T (03) 98442111 M 0404 014 704 E jo@henryarchitects.com.au

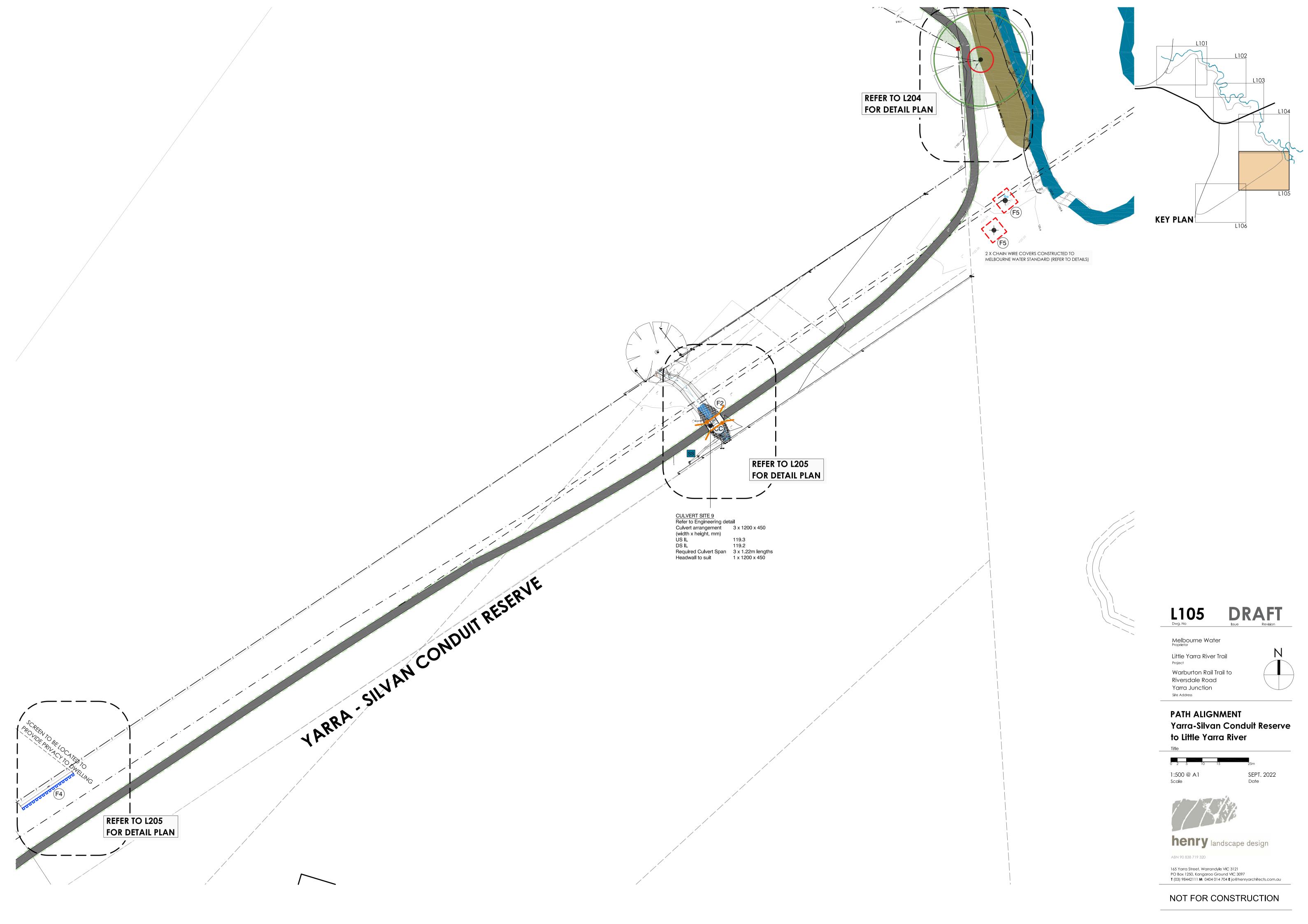




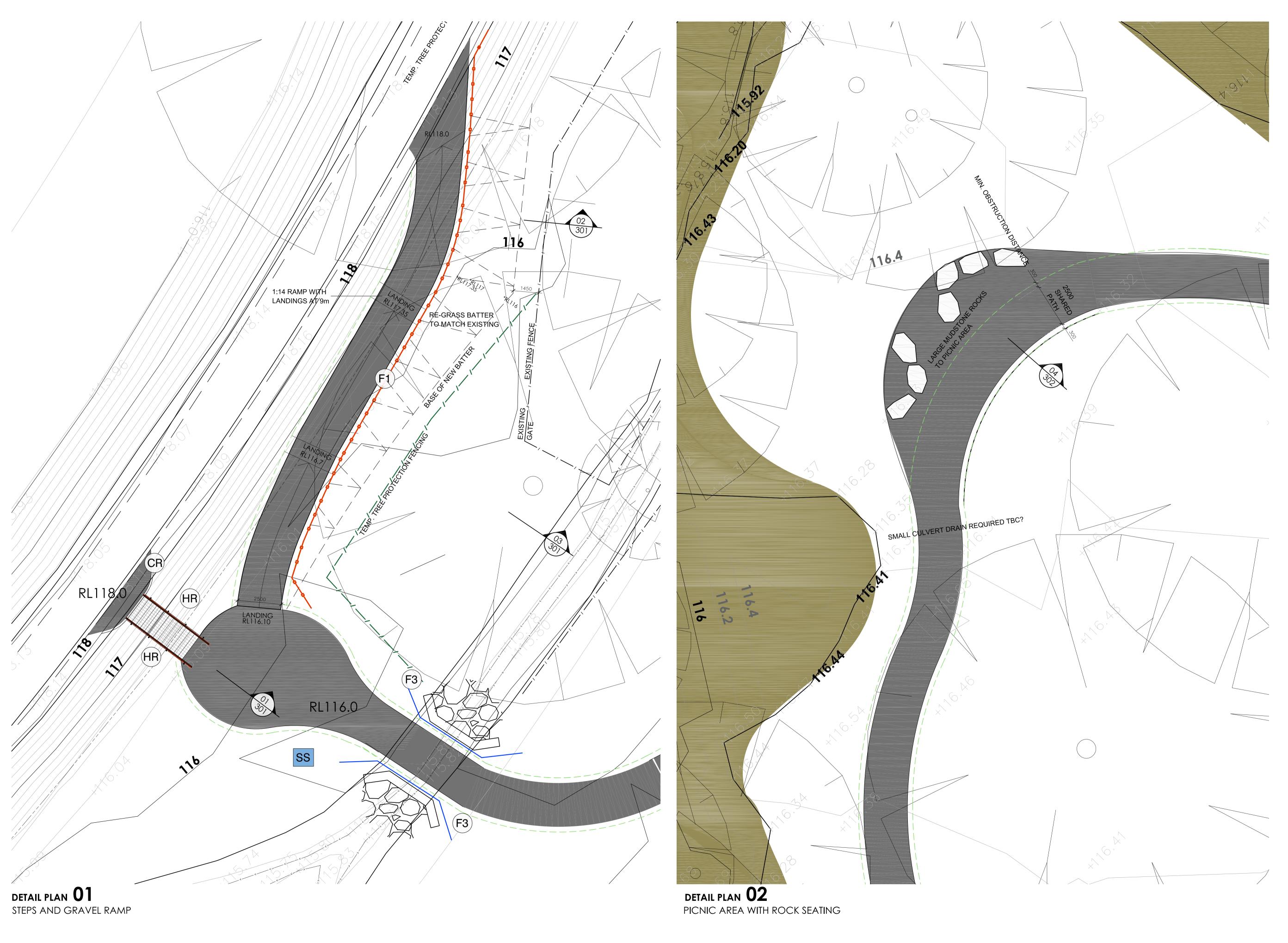












L201 DRAFT
Dwg. No Issue Revision

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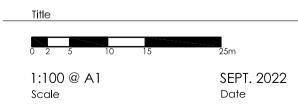
Little Yarra River Trail

Warburton Rail Trail to Riversdale Road Yarra Junction

Mudstone Seats

Site Address

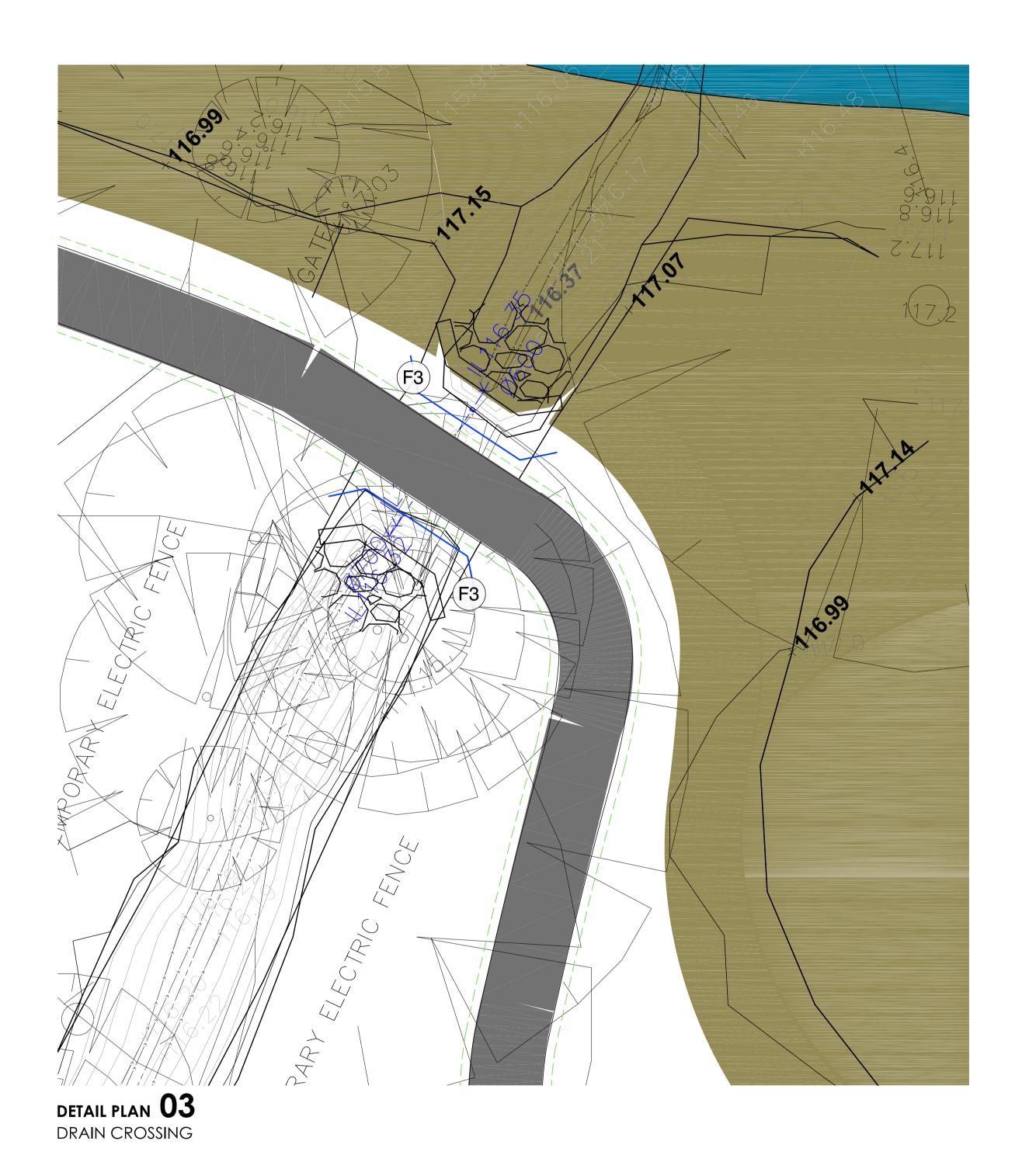
PLAN DETAIL 01
Ramp/steps connection
Warburton Rail Trail &
Picnic Area with





ABN 90 838 719 320

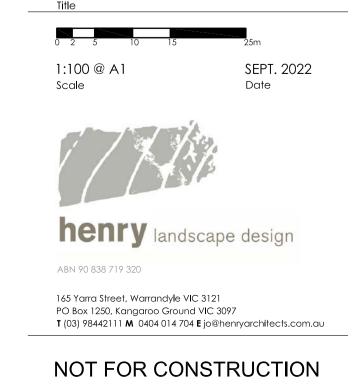
165 Yarra Street, Warrandyle VIC 3121
PO Box 1250, Kangaroo Ground VIC 3097 **T** (03) 98442111 **M** 0404 014 704 **E** jo@henryarchitects.com.au

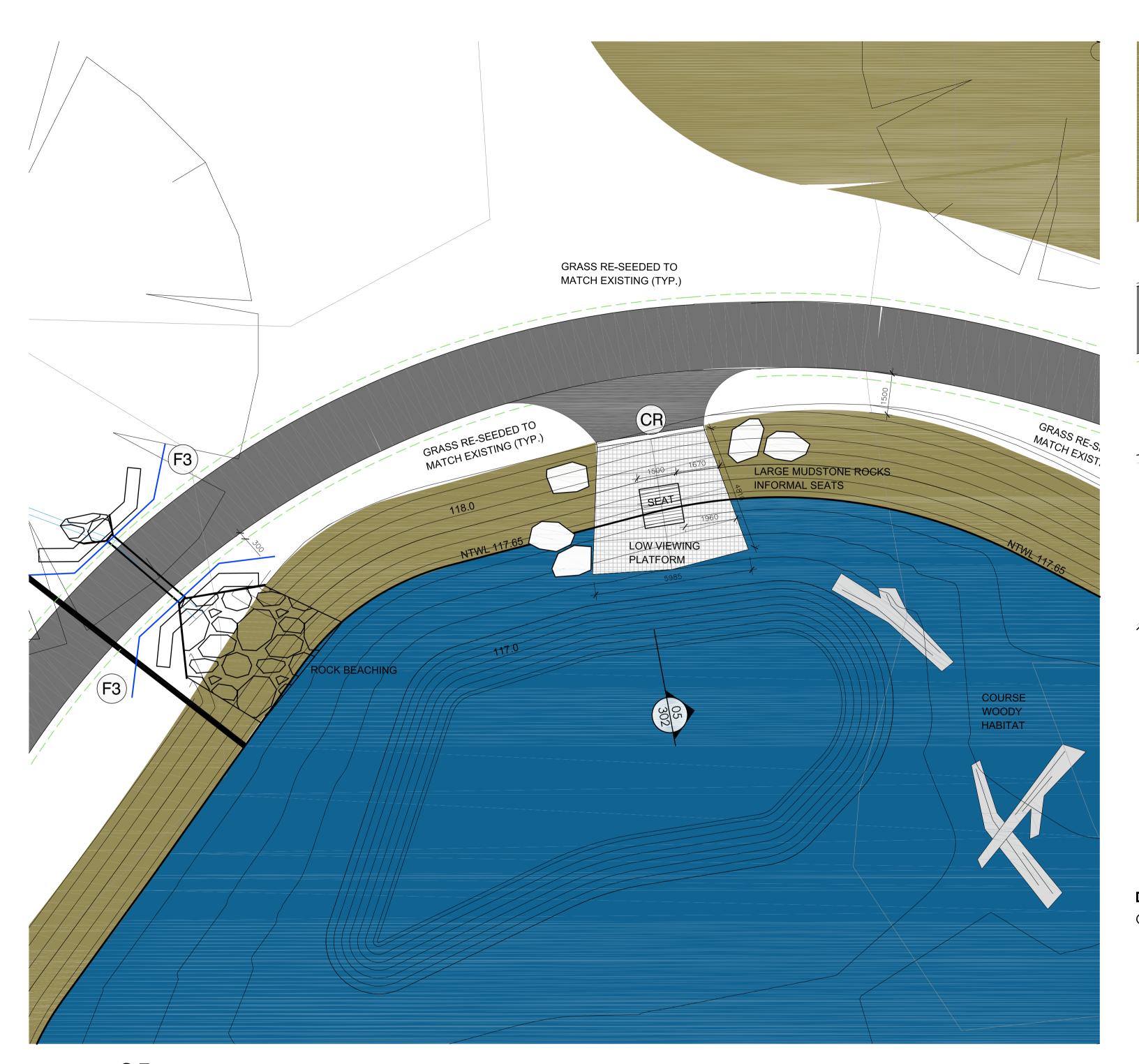


TREE 5 (RETAIN & PROTECT) (RETAIN & PROTECT) TREE 3 (REMOVE) TREE 2 (REMOVE) BOUNDARY FENCE tree 1 (remove) — BOUNDARY FENCE NO DISTURBANCE BEYOND FENCE LINE (PRIVATE PROP.) **L202**Dwg. No DRAFT Issue Revision Melbourne Water Proprietor Little Yarra River Trail Warburton Rail Trail to Riversdale Road DETAIL PLAN 04 Yarra Junction Site Address

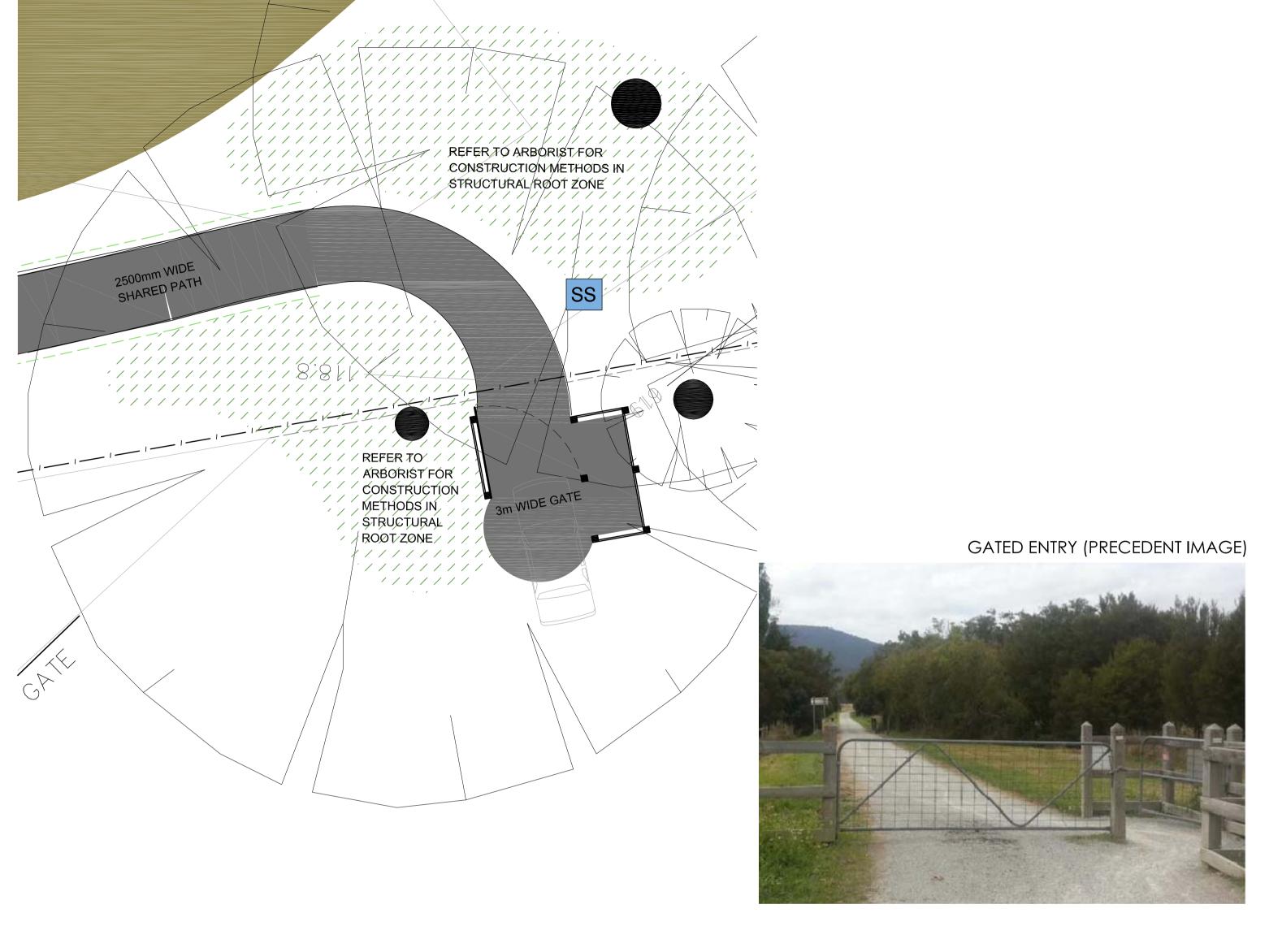
MAIN CULVERT CROSSING NEAR WARBURTON WHY

PLAN DETAIL 03 & 04 **Drain crossings** Pedestrian & Maintenance vehicles

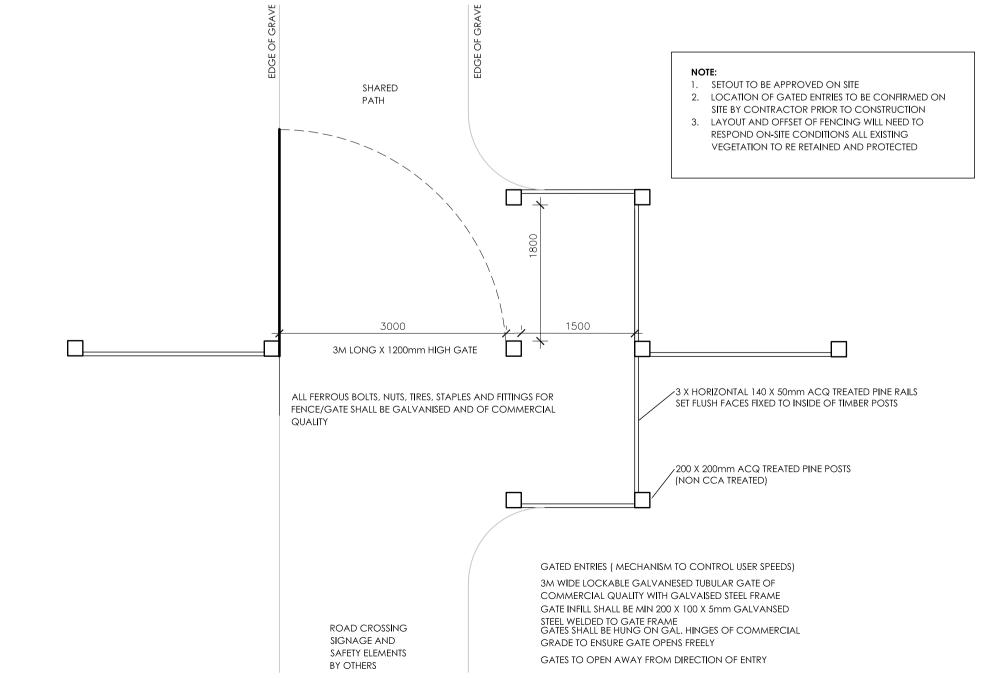




DETAIL PLAN 05
WETLAND VIEWING PLATFORM



DETAIL PLAN 06
GATED ENTRY NEAR WARBURTON HWY



DETAIL PLAN FOR GATED ENTRY (TYP.)



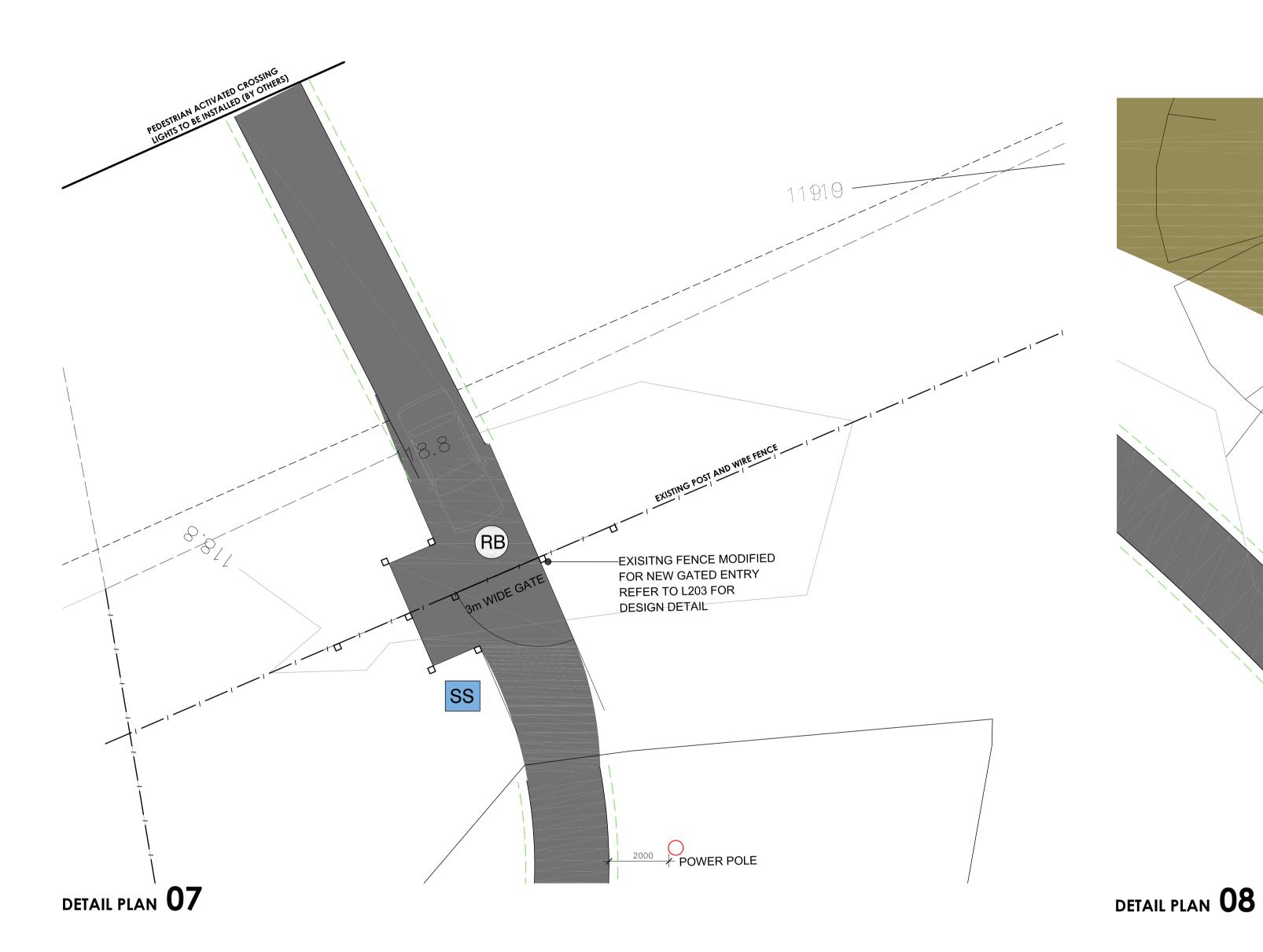
PLAN DETAIL 05 & 06
Wetland Viewing Platform
& Gated Entry

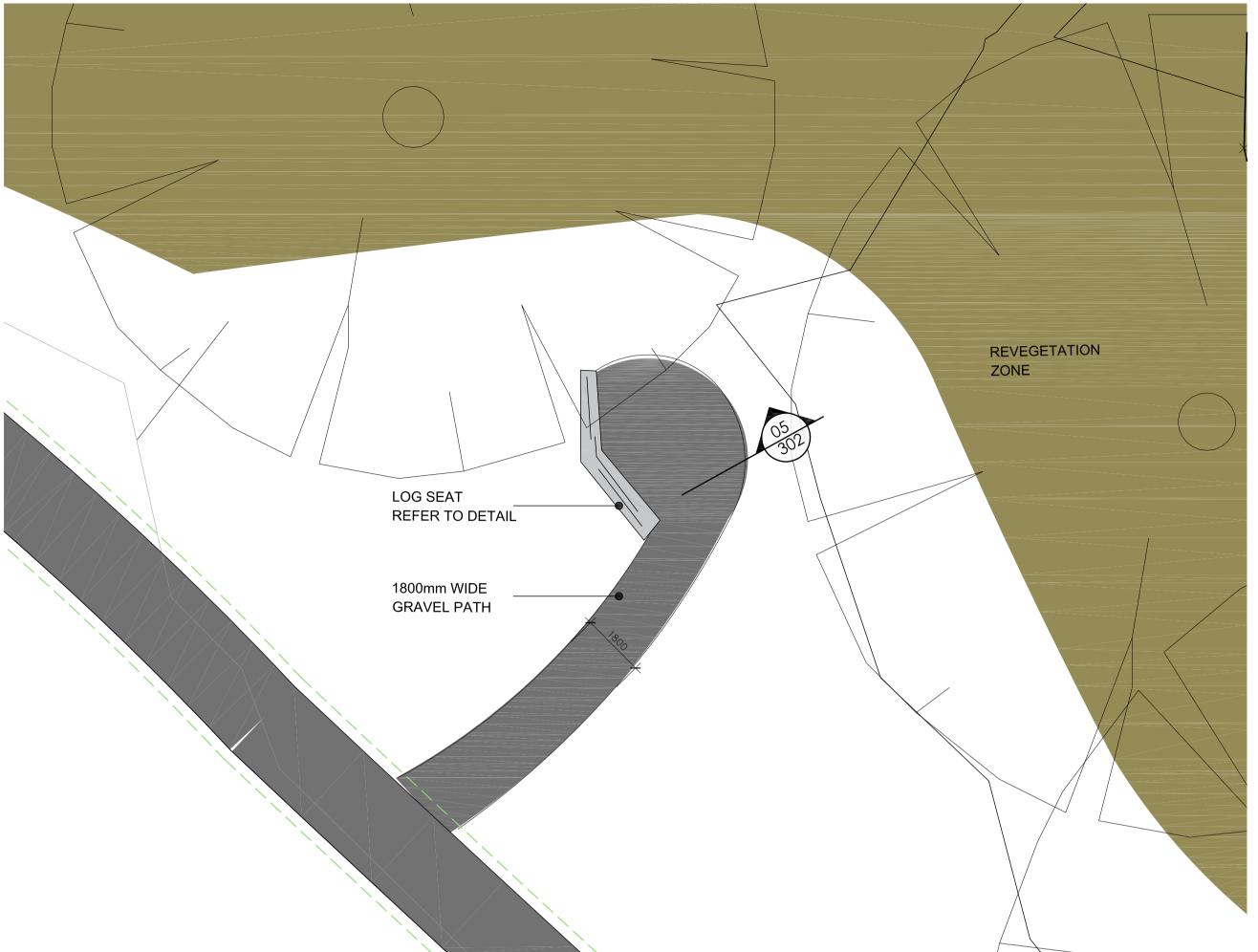
Warburton Rail Trail to Riversdale Road

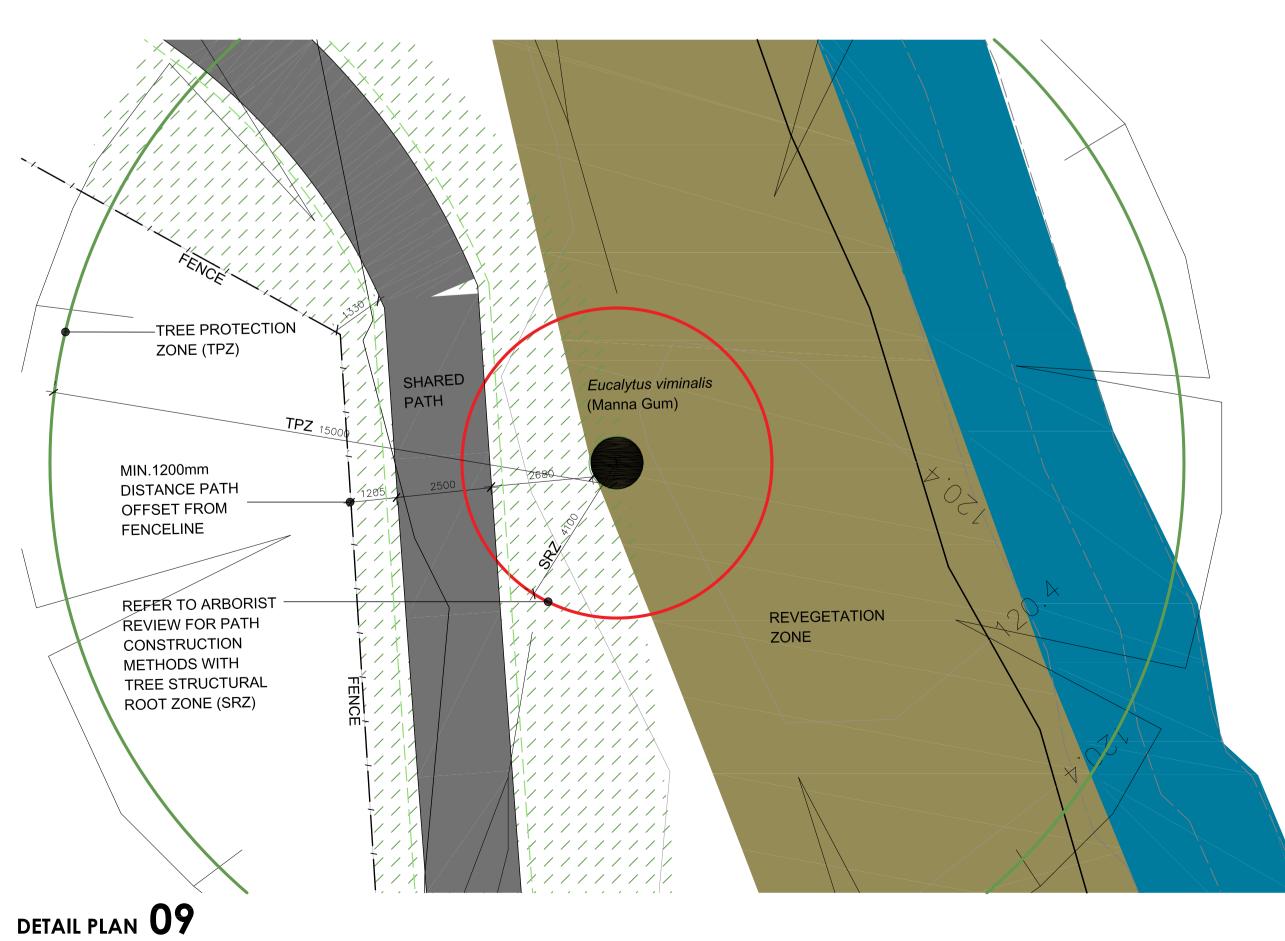
Yarra Junction

Site Address





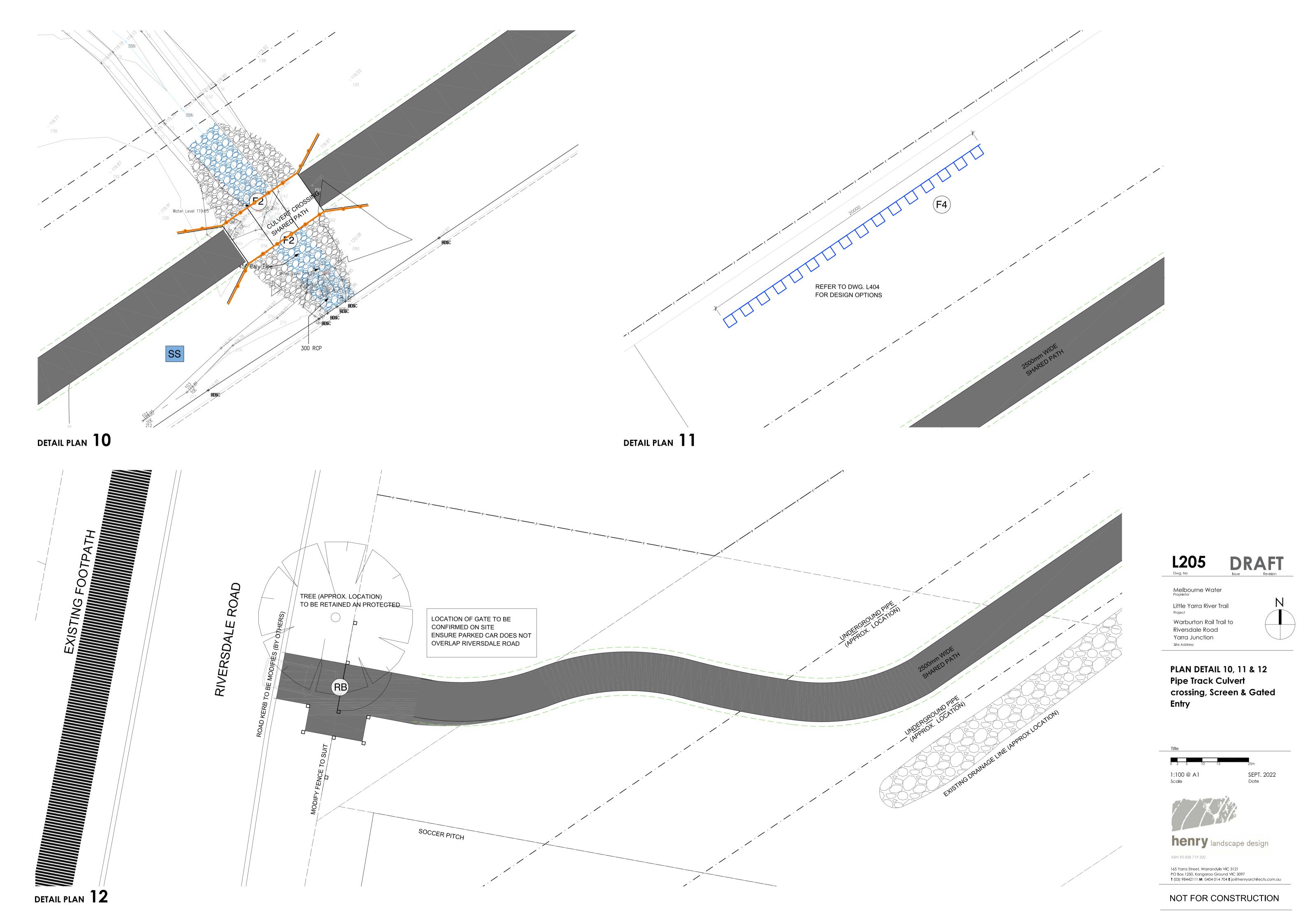


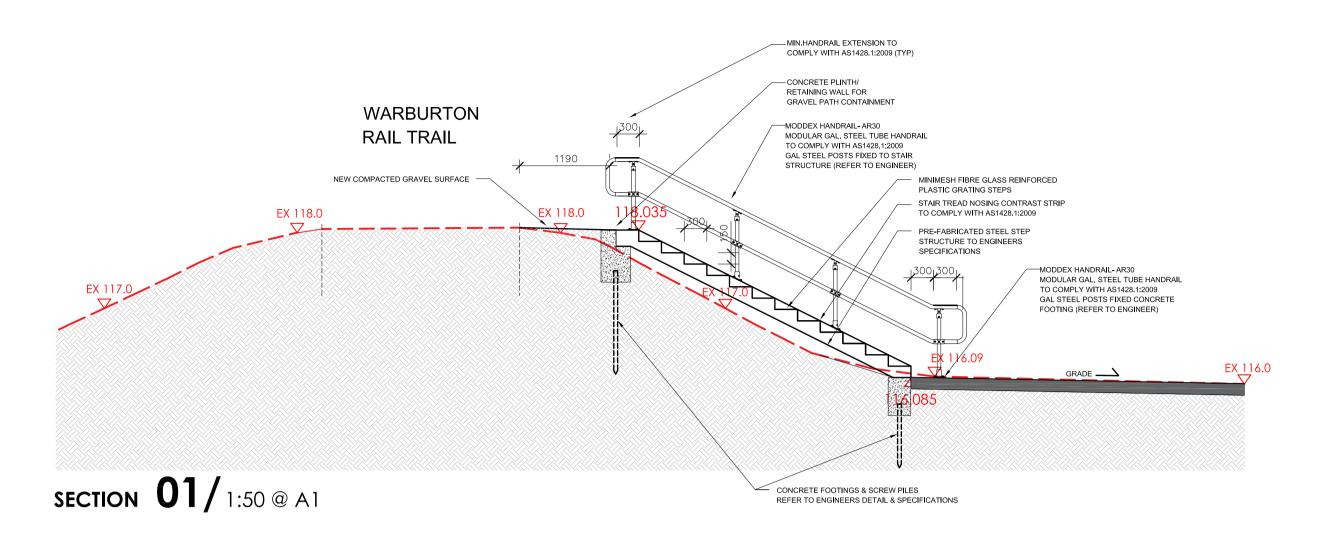


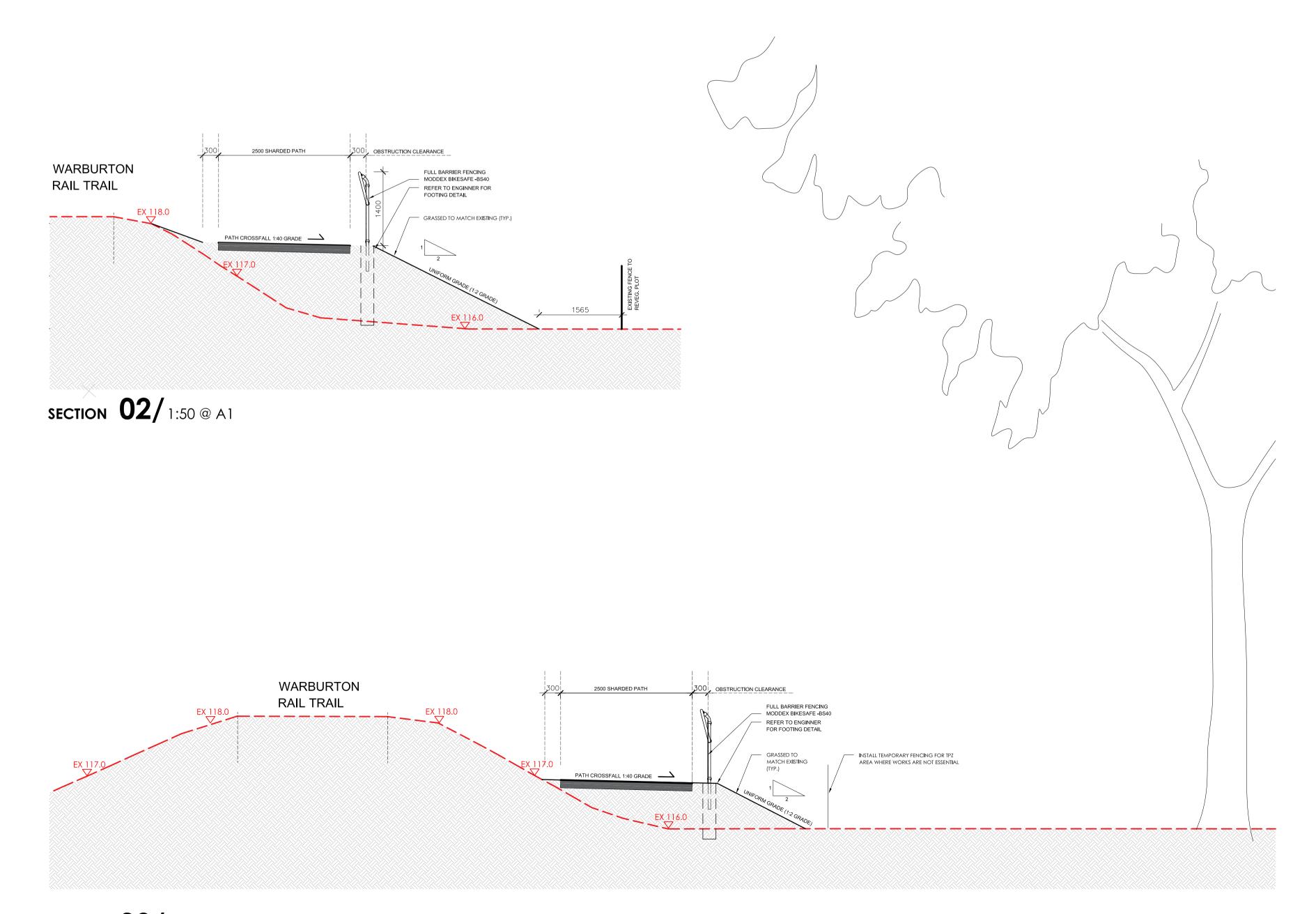


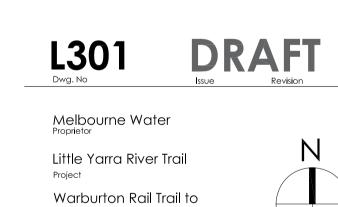
PLAN DETAIL 07, 08 & 09 Gated Entry, Timber Log Seat and Path under Mature Manna Gum











SECTION 01, 02, & 03 Ramp/steps connection to Warburton Rail Trail

Riversdale Road Yarra Junction

Site Address





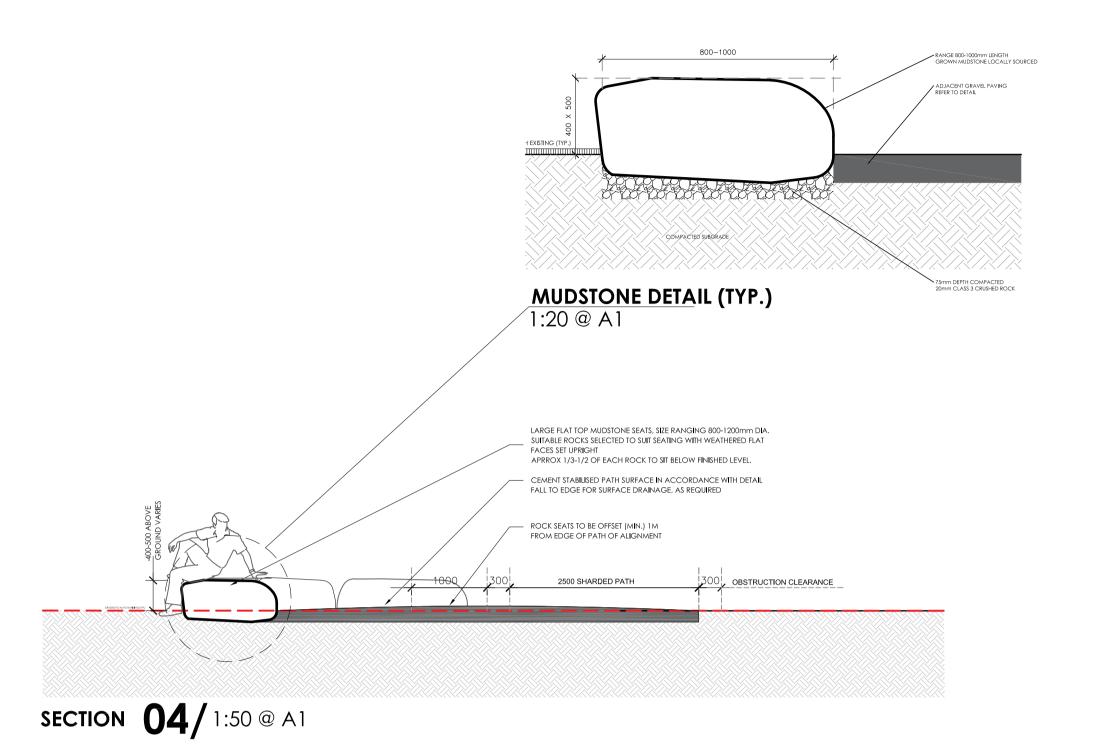
ROCK SEAT (PRECEDENT IMAGE)

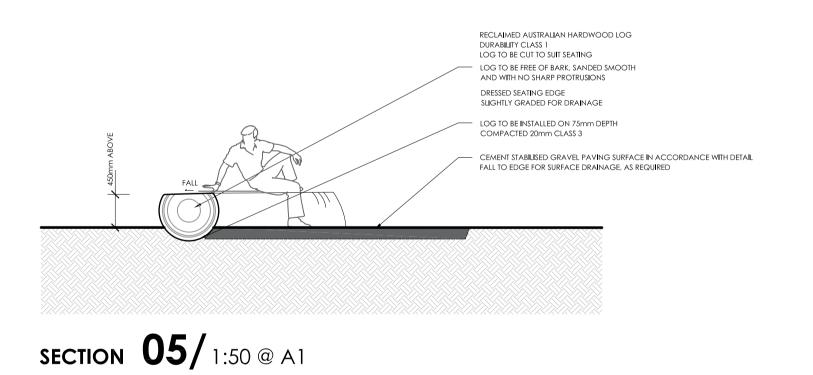


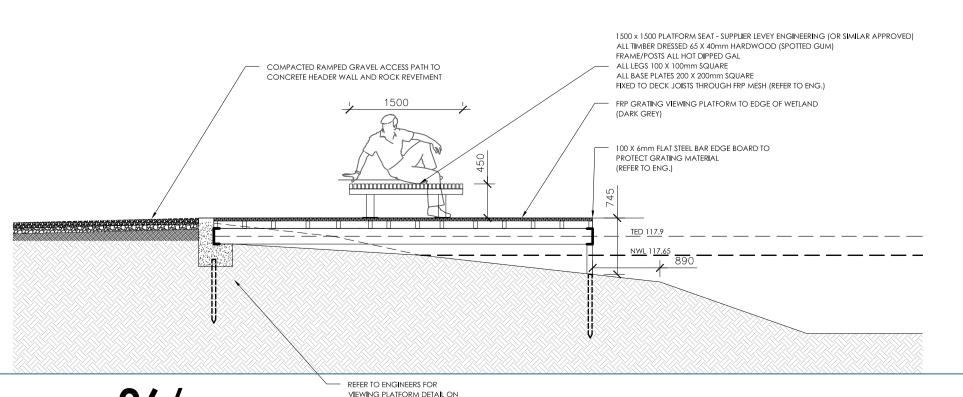
LOG SEAT (PRECEDENT IMAGE)



PLATFORM SEAT TO VIEWING PLATFORM







SECTION 06/1:50 @ A1

REFER TO ENGINEERS FOR VIEWING PLATFORM DETAIL ON STRUCTURE & PROPOSED FOOTING SYSTEM



Melbourne Water Proprietor

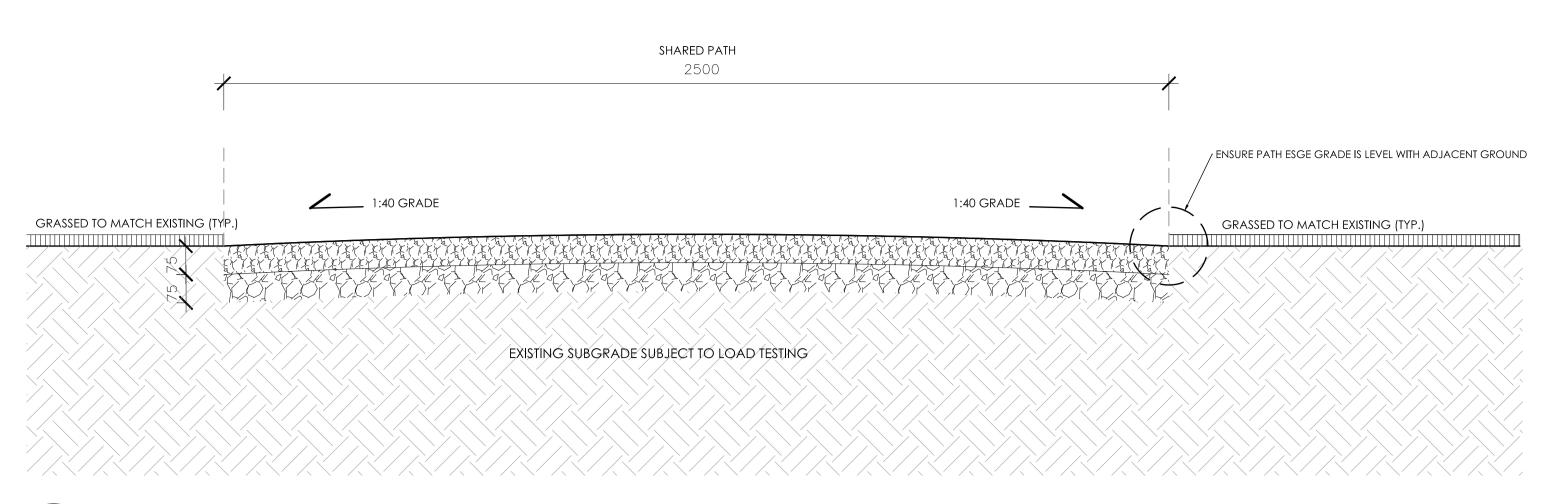
Little Yarra River Trail

Warburton Rail Trail to Riversdale Road Yarra Junction

Site Address

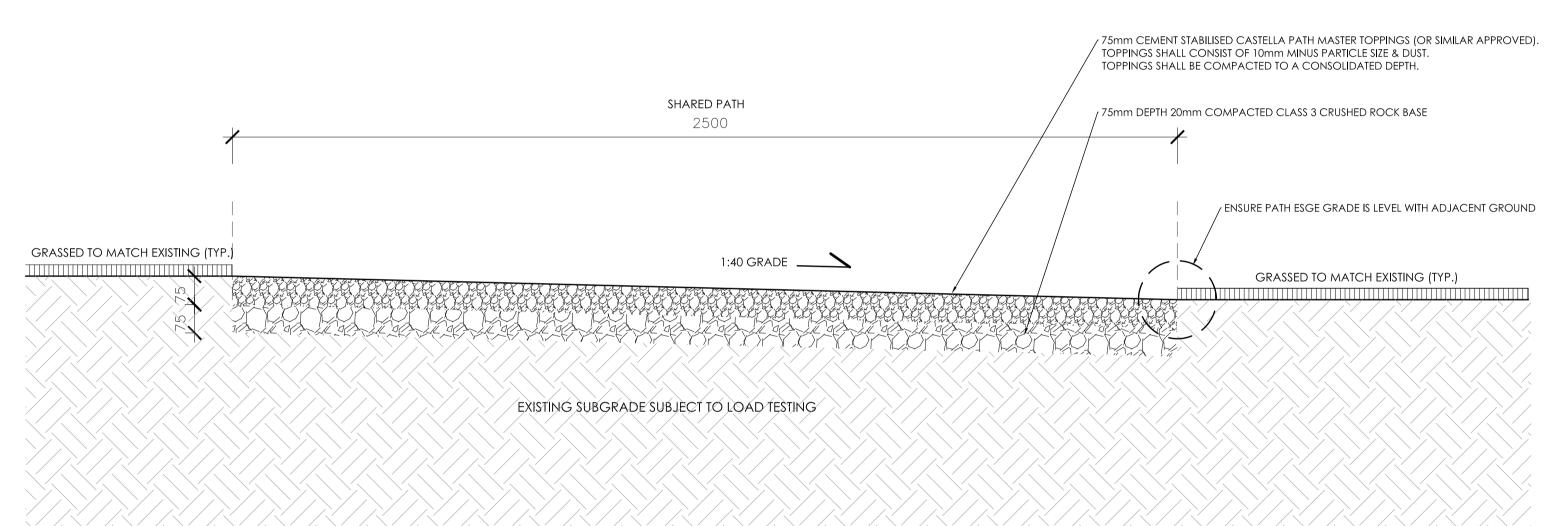
SECTION 04, 05 & 06
Seating.
Mudstone Seat, Log seat
and wetland viewing
platform





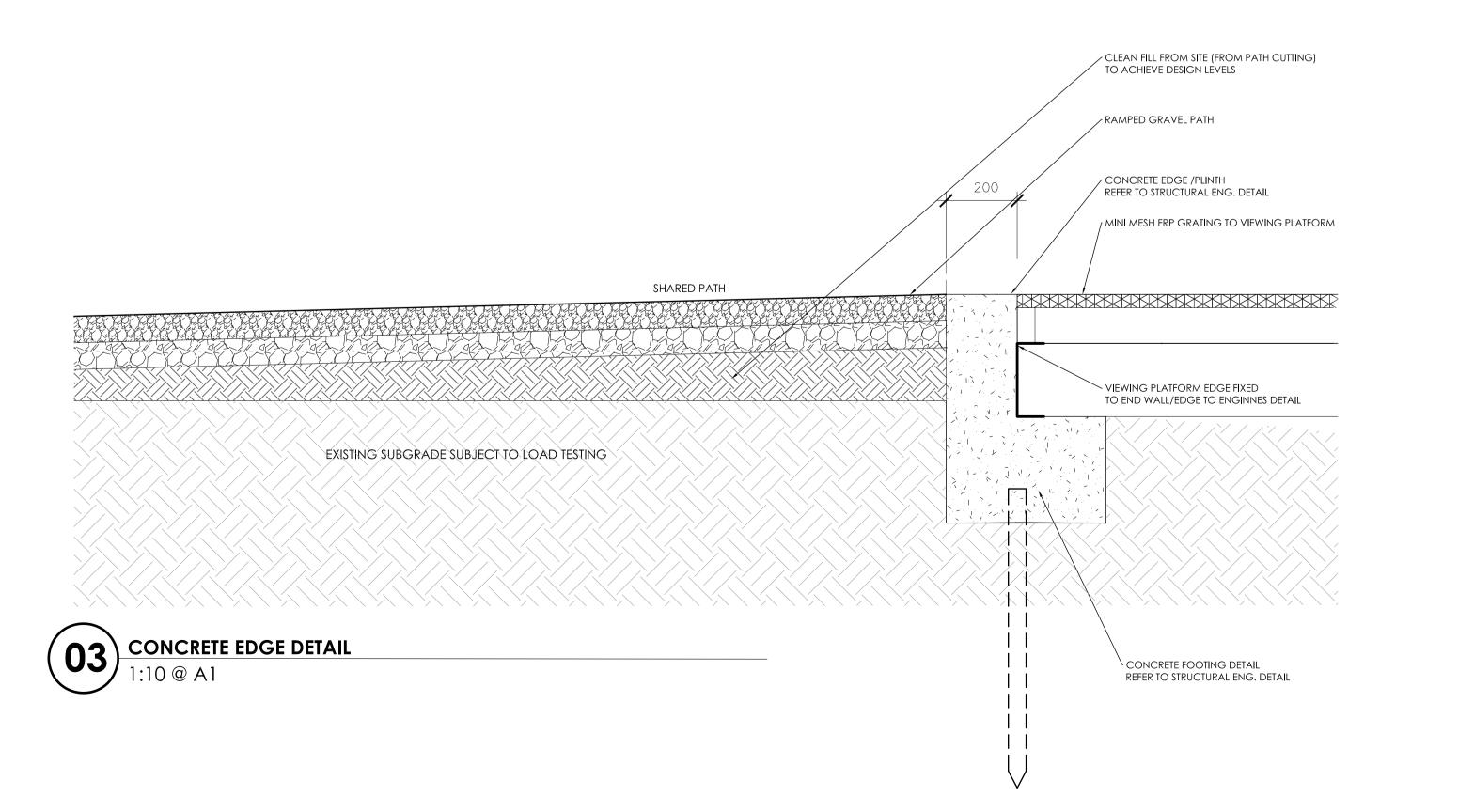
SECTION SHARED PATH - CROSS FALL FROM CROWN OF PATH

1:10 @ A1



SECTION SHARED PATH - ONE SIDE CROSS FALL

1:10 @ A1





Melbourne Water Proprietor

Little Yarra River Trail

Warburton Rail Trail to Riversdale Road Yarra Junction Site Address

SURFACE FINISH & EDGING DETAIL

AS SHOWN Scale

SEPT. 2022 Date

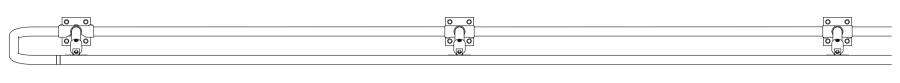


ABN 90 838 719 320

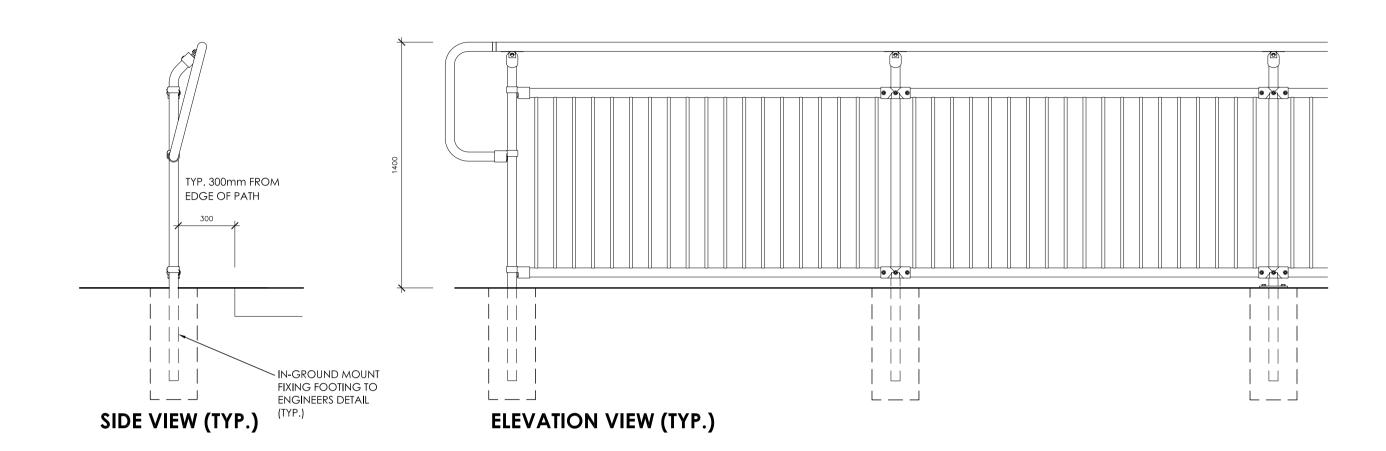
165 Yarra Street, Warrandyle VIC 3121
PO Box 1250, Kangaroo Ground VIC 3097

NOT FOR CONSTRUCTION

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PLAN VIEW (TYP.)

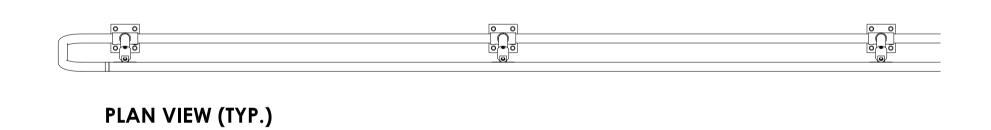


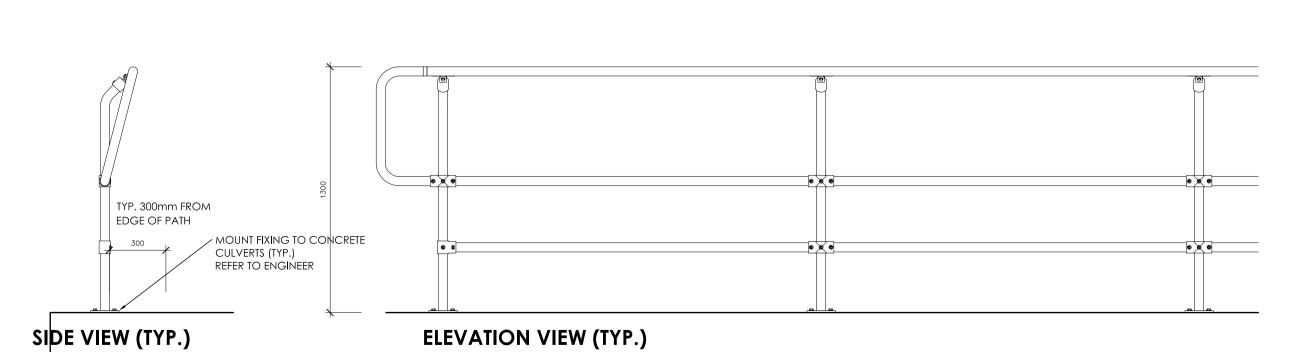
FENCING TYPE 01 FULL BARRIER FENCING
1:20 @ A1

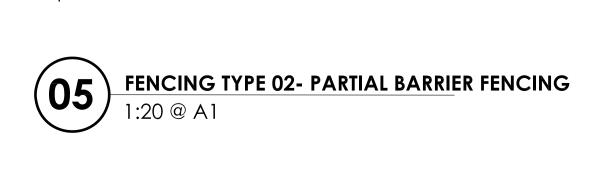
SUPPLIER: MODDEX (OR SIMILAR APPROVED) MATERIAL: GALVANISED STEEL NOTE: GALVANISED FINISH TO BE CONFIRMED AND APPROVED PRIOR TO FABRICATION SHOP DRAWING TO BE PROVIDED AND APPROVED BY MW SUPERINTENDENT PRIOR TO FABRICATION POST SETOUT TO BE CONFIRMED ON SITE TO BE CONSTRUCTED IN ACCORDANCE WITH AUSTROADS GUIDE ANS AS AS 5100 FENCE CONSTRUCTION MUST NOT PRESENT ANY SHARP OR OTHERWISE DANGEROUS EDGES TO SHARED PATH FULL BARRIER TO BE MANUFACTURES TO SUIT GRADIENT OF SHARED PATH ALL END POINTS TO PRESENT FLARED AND ROUNDED RAIL TERMINATIONS

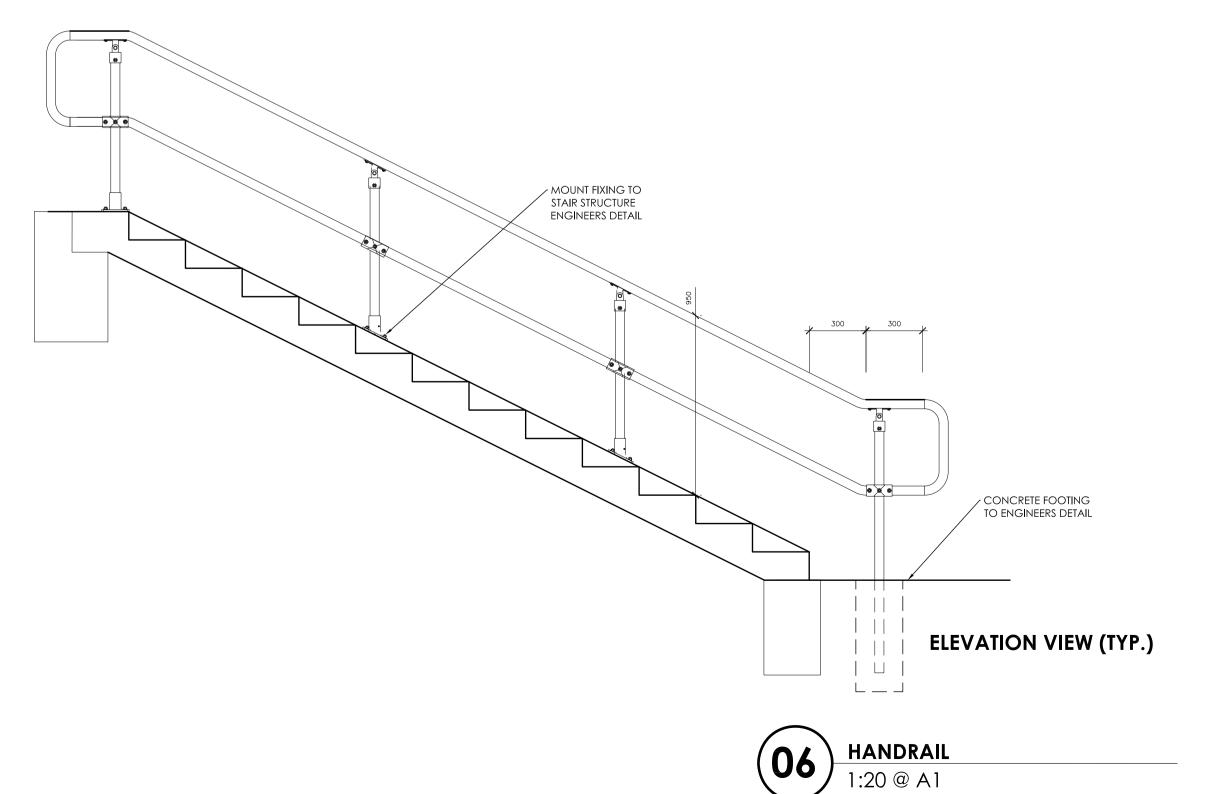
From Austroads Guide to Road Design Part 6A

REQUIRMENTS FOR FENCE BATTIERS AT BATTERS & VERTICAL DROPS



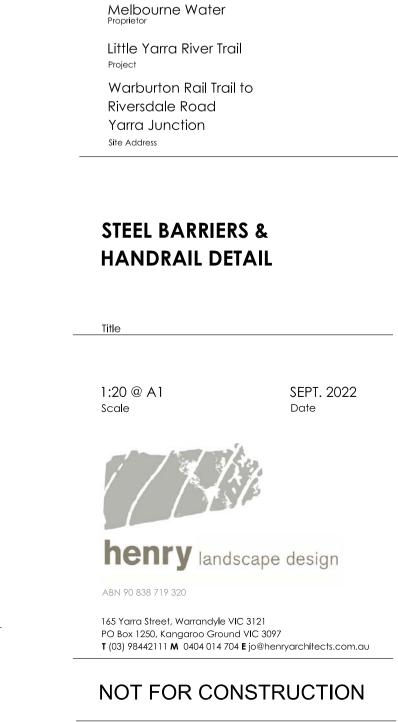




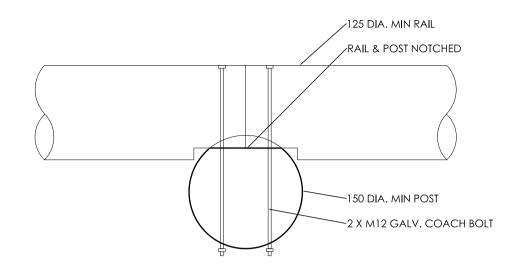


Full barrier fence required <5

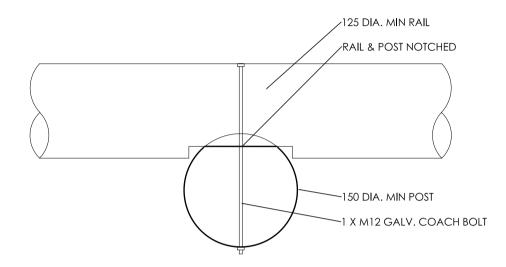
** Barrier fence required if obstacle within 1 m of path.



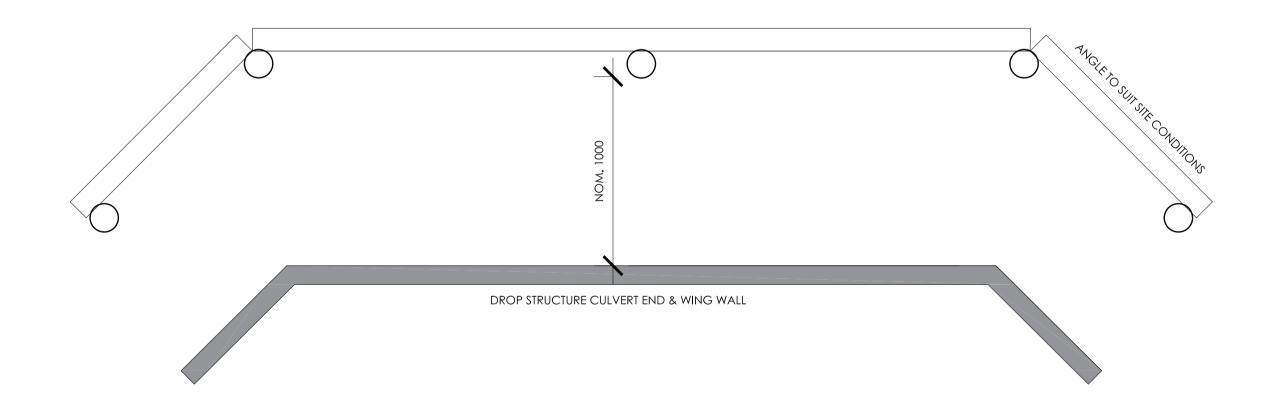
L402



RAIL (SINGLE SPAN) TO POST CONNECTION PLAN 1:5 @ A1



RAIL (CONTINUOUS) TO POST CONNECTION PLAN 1:5 @ A1



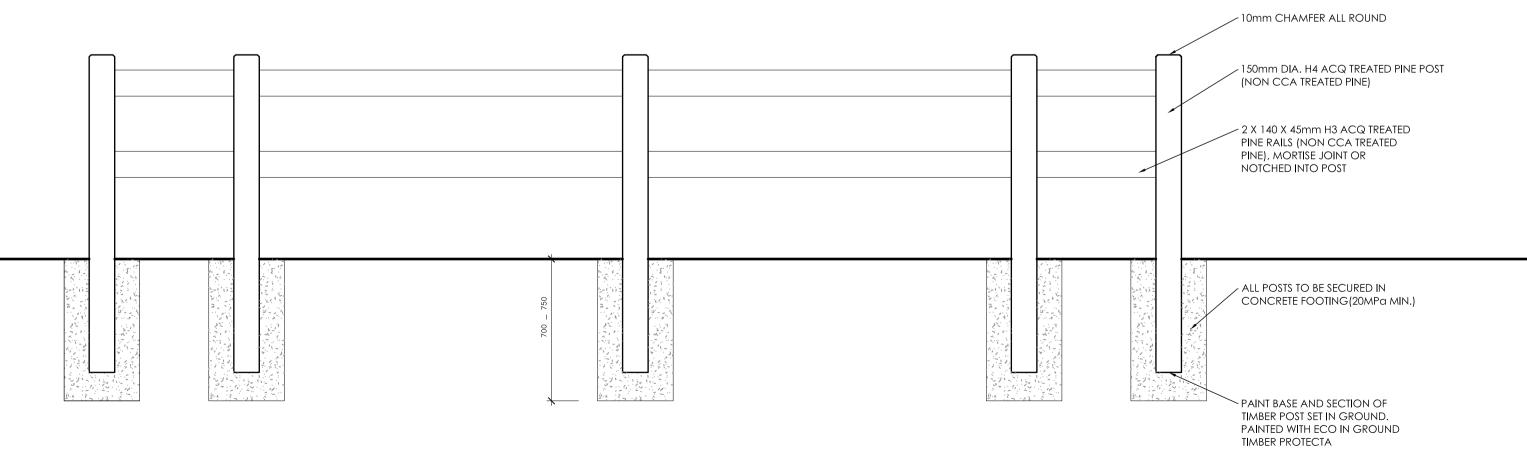
NOTE:

1. SETOUT TO BE APPROVED ON SITE

2. LAYOUT AND OFFSET OF BARRIER WILL VARY
ACCORDING TO THE DROP STRUCTURE LAYOUT,
CULVERT SIZE AND SITE CONDITIONS

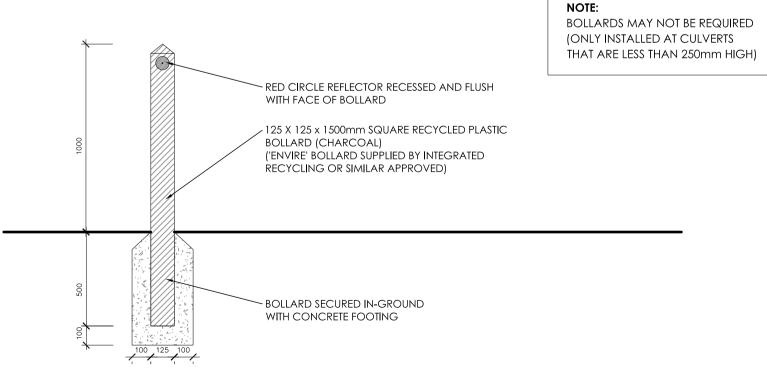
3. ALL TIMBER SHALL BE ACQ TREATED PINE,
RELATIVELY STRAIGHT AND UNIFORM IN PROFILE

4. LOCATION OF CULVERT TO BE CONFIRMED ON SITE
BY CONTRACTOR PRIOR TO CONSTUCTION



FENCING TYPE 03-CULVERT BARRIER FENCING (FOR USE ON CULVERTS > 250mm)

1:20 @ A1



8 BOLLARDS (FOR USE ON CULVERTS < 250mm)
1:20 @ A1



Melbourne Water

Little Yarra River Trail

Warburton Rail Trail to Riversdale Road Yarra Junction Site Address

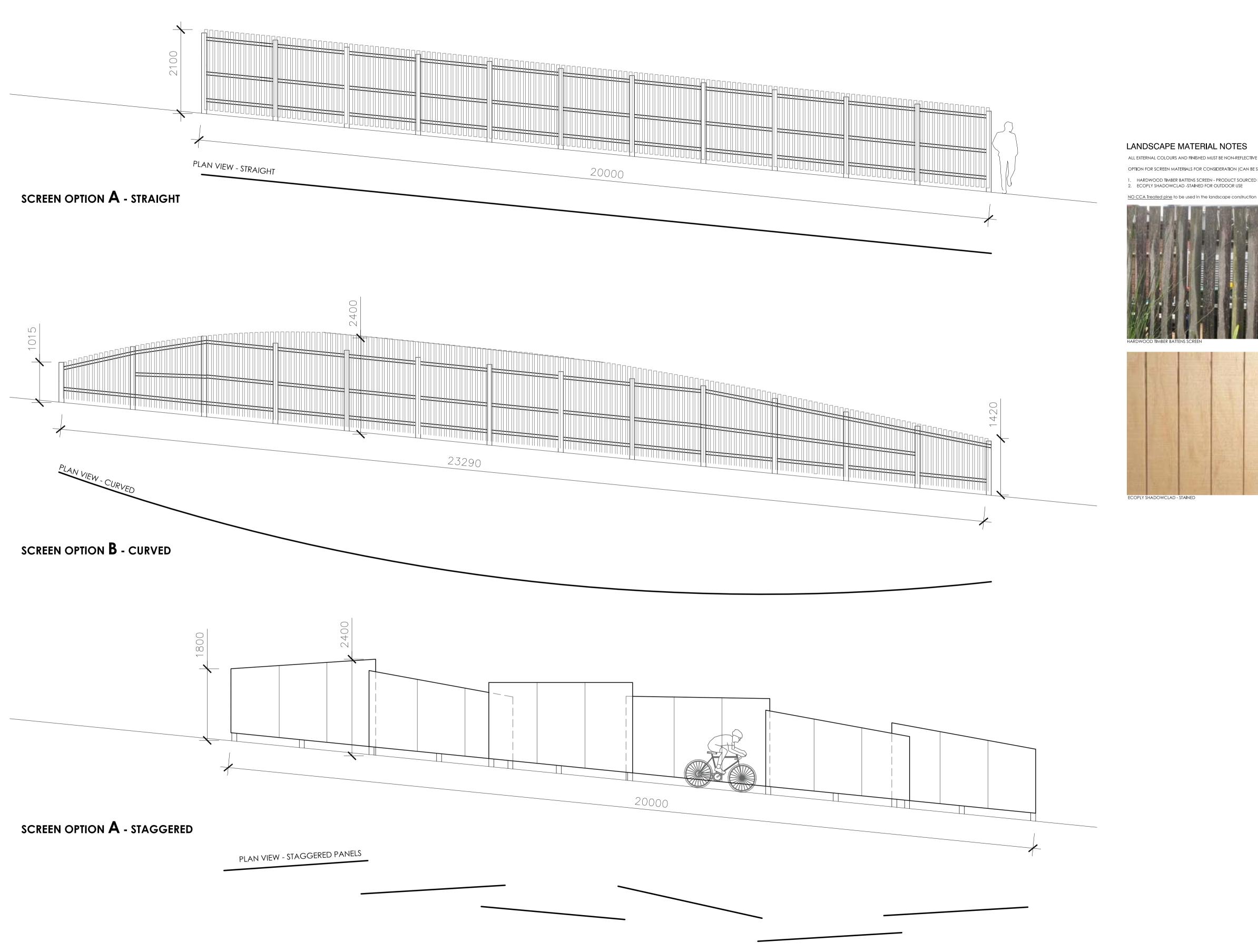
CULVERT BARRIER & BOLLARD DETAIL

1:20 @ A1 Scale

SEPT. 2022 Date



165 Yarra Street, Warrandyle VIC 3121 PO Box 1250, Kangaroo Ground VIC 3097 **T** (03) 98442111 **M** 0404 014 704 **E** jo@henryarchitects.com.au



LANDSCAPE MATERIAL NOTES

ALL EXTERNAL COLOURS AND FINISHED MUST BE NON-REFLECTIVE

OPTION FOR SCREEN MATERIALS FOR CONSIDERATION (CAN BE SELECTED FOR ALL 3 X DESIGN OPTIONS);

HARDWOOD TIMBER BATTENS SCREEN - PRODUCT SOURCED FROM FSA CERTIFIED FORESTRY
 ECOPLY SHADOWCLAD -STAINED FOR OUTDOOR USE





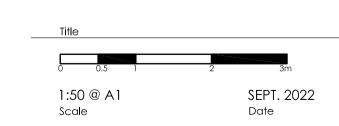
L404Dwg. No DRAFT Issue Revision

Melbourne Water Proprietor

Little Yarra River Trail Project

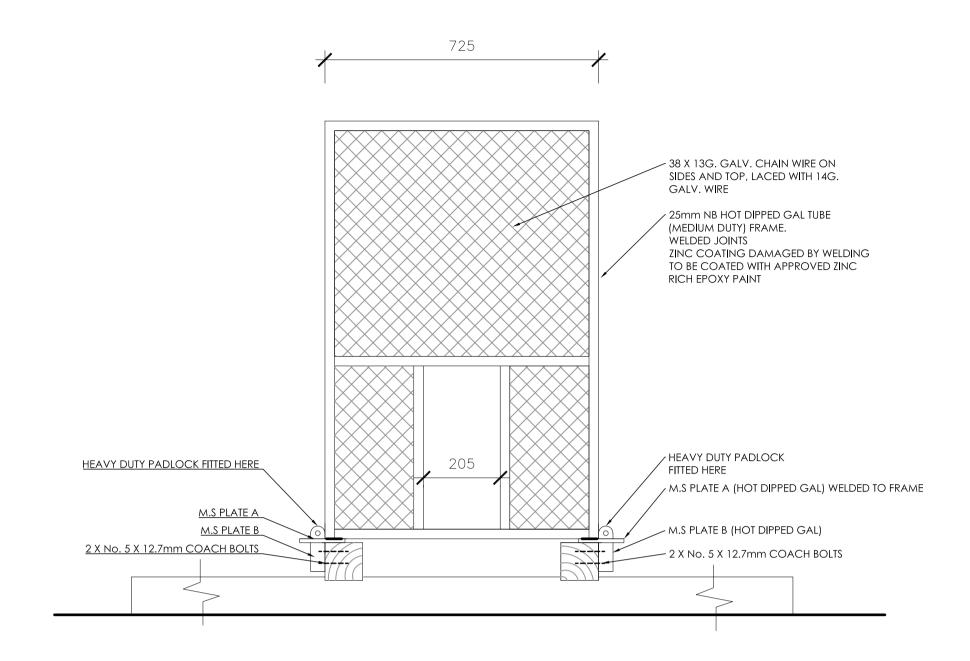
Warburton Rail Trail to Riversdale Road Yarra Junction

SCREEN CONCEPT **DESIGN OPTIONS**

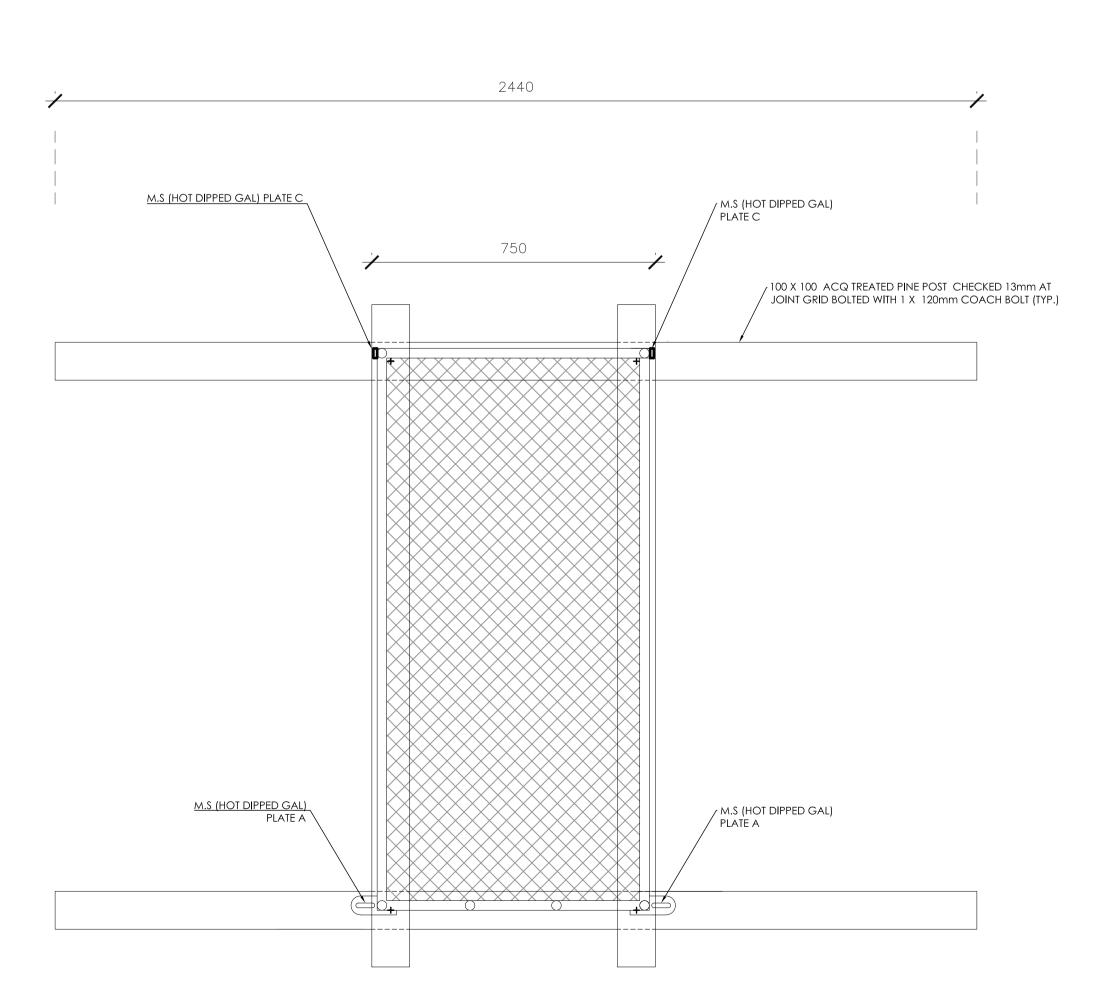




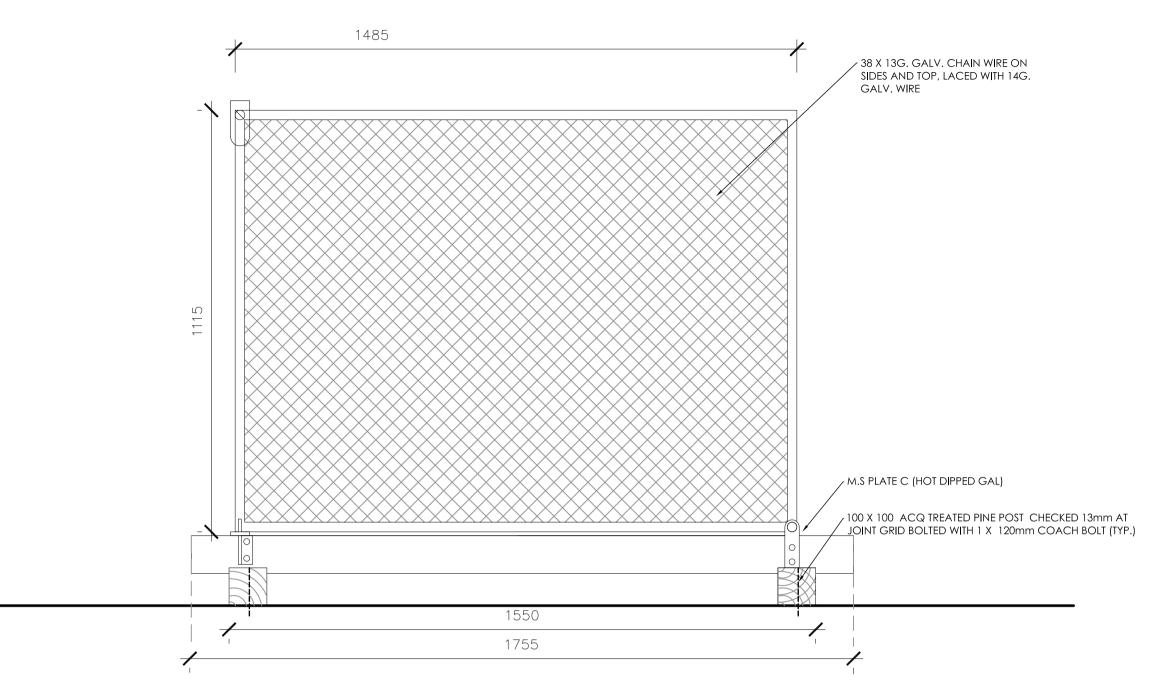
165 Yarra Street, Warrandyle VIC 3121 PO Box 1250, Kangaroo Ground VIC 3097 **T** (03) 98442111 **M** 0404 014 704 **E** jo@henryarchitects.com.au



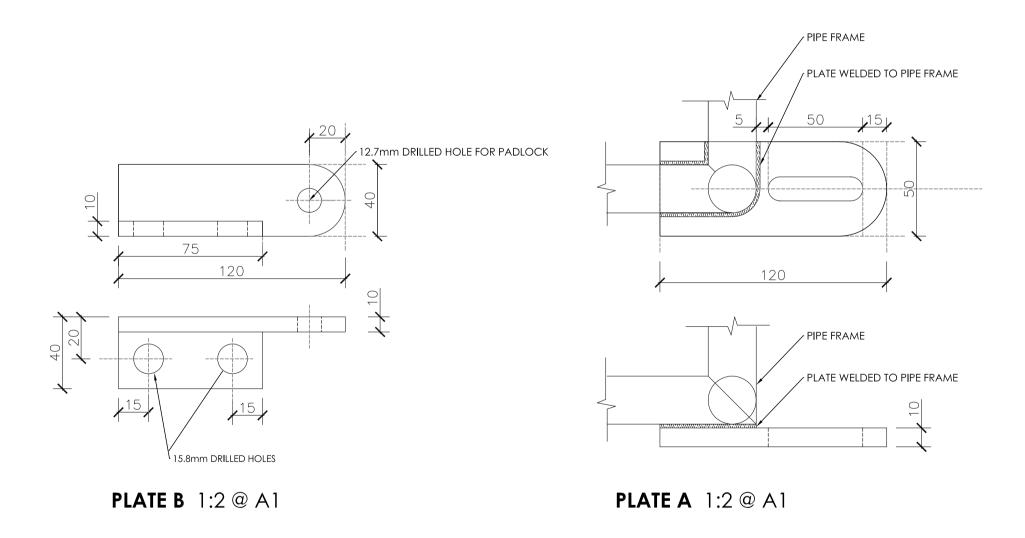
ELEVATION VIEW 1:10 @ A1



PLAN VIEW 1:10 @ A1



SIDE ELEVATION VIEW 1:10 @ A1



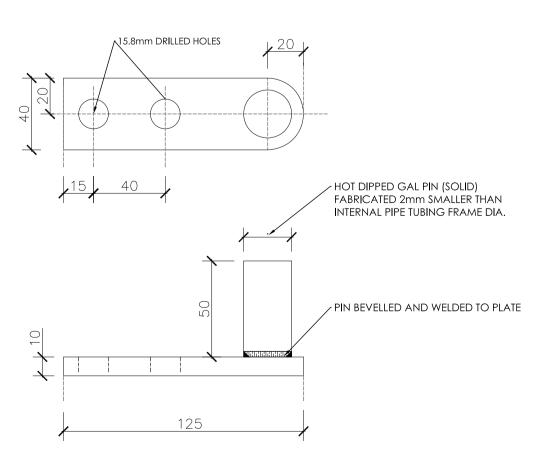


PLATE C 1:2 @ A1

NOTE

THESE DETAILS ARE BASED ON MELBOURNE WATER DRAWINGS
(TO BE CONFIRMED WITH MW SUPERINTENDENT PRIOR TO CONSTRUCTION)

1. CHAIN WIRE COVER FOR 6" SINGLE CHAMBER AIR VALVE -S22/15
2. CHAIN WIRE COVER FOR 6" SINGLE CHAMBER AIR VALVE -S22/16

NO CCA Treated pine to be used in the landscape construction

L405 DRAF

Melbourne Water Proprietor

Little Yarra River Trail

Warburton Rail Trail to Riversdale Road Yarra Junction Site Address

Chain Wire Cover for 6" Chamber Air Valve

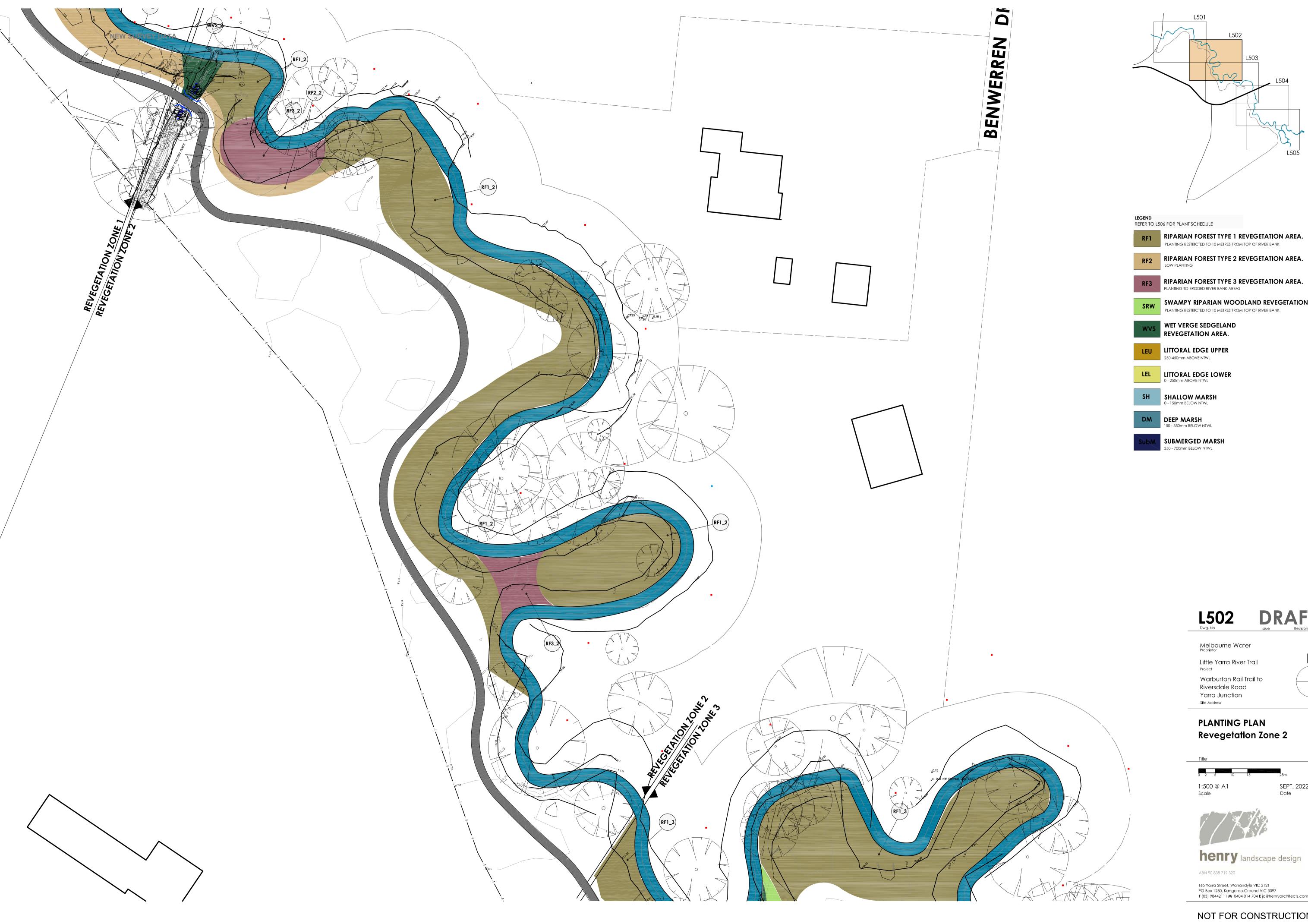
AS SHOWN Scale

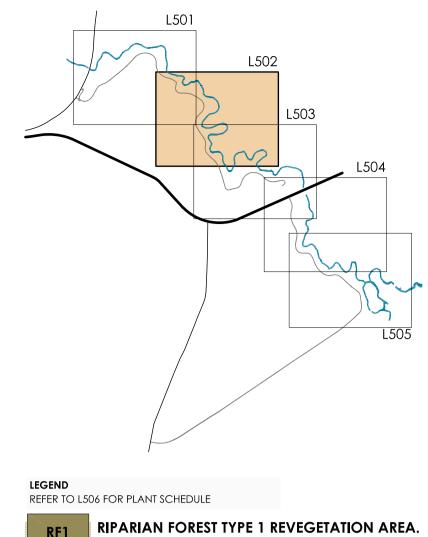
SEPT. 2022 Date



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RIPARIAN FOREST TYPE 2 REVEGETATION AREA.

SWAMPY RIPARIAN WOODLAND REVEGETATION AREA.
PLANTING RESTRICTED TO 10 METRES FROM TOP OF RIVER BANK

DRAFT Issue Revision

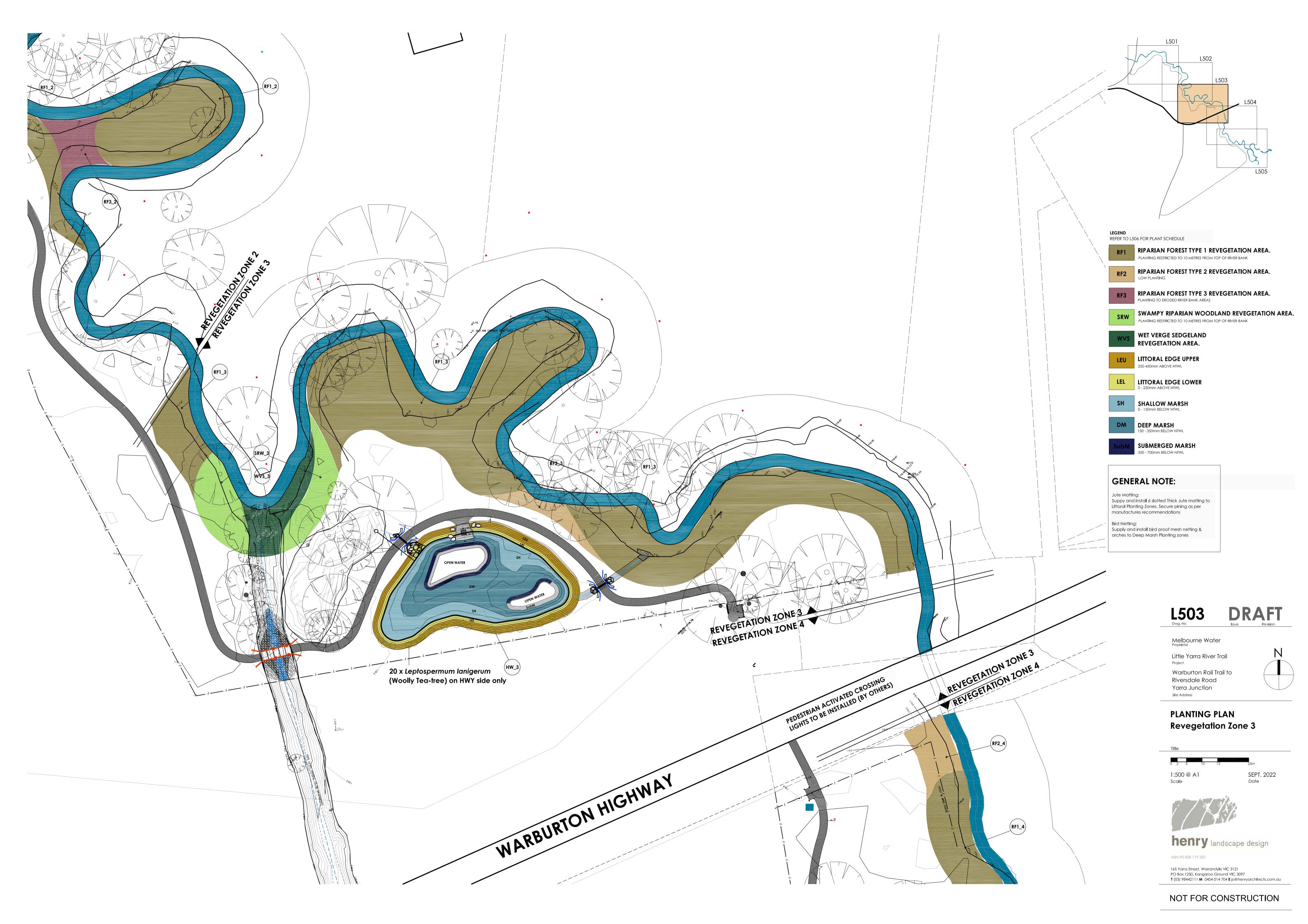
PLANTING PLAN **Revegetation Zone 2**

SEPT. 2022 Date

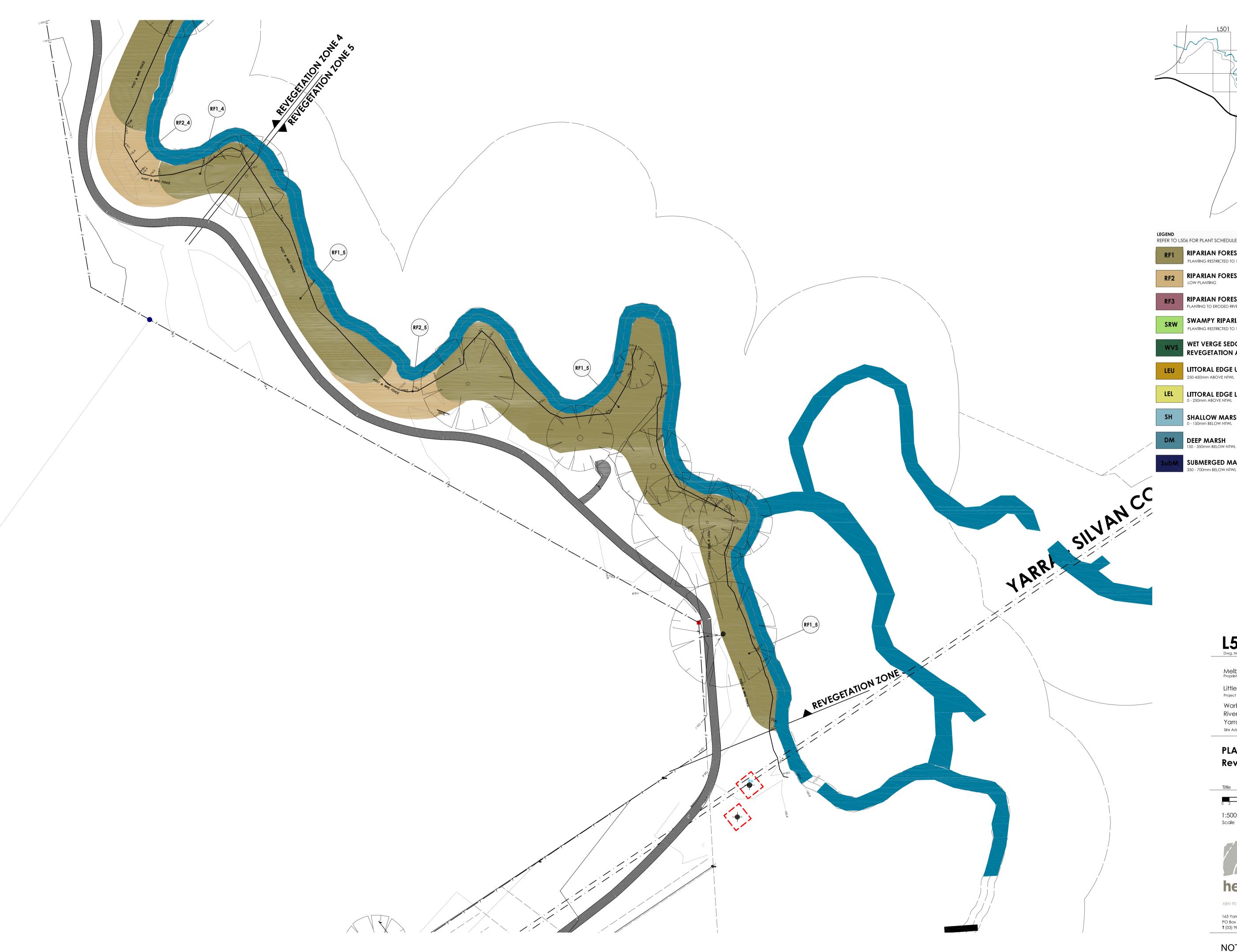


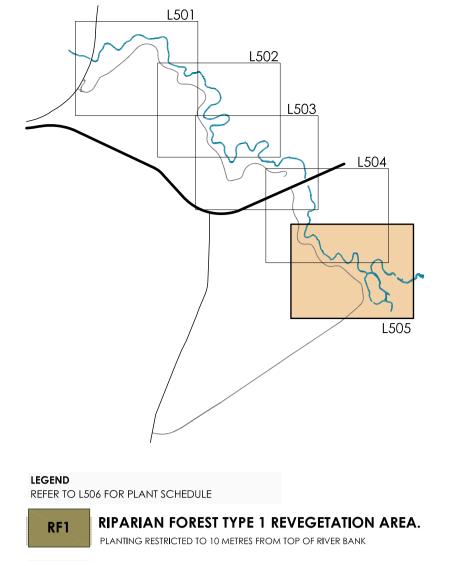
henry landscape design

165 Yarra Street, Warrandyle VIC 3121 PO Box 1250, Kangaroo Ground VIC 3097 **T** (03) 98442111 **M** 0404 014 704 **E** jo@henryarchitects.com.au









RF2 RIPARIAN FOREST TYPE 2 REVEGETATION AREA.
LOW PLANTING

RIPARIAN FOREST TYPE 3 REVEGETATION AREA.
PLANTING TO ERODED RIVER BANK AREAS

SWAMPY RIPARIAN WOODLAND REVEGETATION AREA.
PLANTING RESTRICTED TO 10 METRES FROM TOP OF RIVER BANK

WET VERGE SEDGELAND REVEGETATION AREA.

LEU LITTORAL EDGE UPPER

LITTORAL EDGE LOWER
0 - 250mm ABOVE NTWL

SHALLOW MARSH 0 - 150mm BELOW NTWL

DEEP MARSH 150 - 350mm BELOW NTWL

SUBMERGED MARSH 350 - 700mm BELOW NTWL

L505Dwg. No

DRAFT Issue Revision

Melbourne Water

Little Yarra River Trail Project

Site Address

Warburton Rail Trail to Riversdale Road Yarra Junction

PLANTING PLAN Revegetation Zone 5

1:500 @ A1 Scale SEPT. 2022 Date



henry landscape design

ABN 90 838 719 320 165 Yarra Street, Warrandyle VIC 3121 PO Box 1250, Kangaroo Ground VIC 3097 **T** (03) 98442111 **M** 0404 014 704 **E** jo@henryarchitects.com.au

PLANT SCHEDULE

PLANT	6056156								
COMMUNITY	SPECIES	T		NUMI					
	Botanical Name	Common Name		REVE	GETATION	ZONE		Total	
RIPARIAN FO	REST TYPE 1		RF1_1	RF1_2	RF1_3	RF1_4	RF1_5		
			2360m2	4272m2	4570m2	1500m2	3400m2		
TREES									
	Eucalyptus viminalis ssp. viminalis	Manna Gum	5	10	10	5	5	35	
	Eucalyptus ovata	Swamp Gum	5	5	5	-	5	20	
	Eucalyptus camphora s.l.	Swamp Gum	5	5	5	-	5	20	
	Acacia melanoxylon	Blackwood	10	15	20	5	15	65	
	TOTAL		25	35	40	10	30		140
SHRUBS									
	Acacia verticillata	Prickly Moses	20	40	40	10	30	140	
	Bursaria spinosa	Sweet Bursaria	20	40	40	10	30	140	
	Coprosma quadrifida	Prickly Currant-bush	30	60	70	20	50	230	
	Goodenia ovata	Hop Goodenia	20	40	40	10	30	140	
	Goodia lotifolia	Golden Tip	10	20	20	10	20	80	
	Leptospermum continentale	Prickly Tea-tree	30	60	70	20	50	230	
	Leptospermum lanigerum	Woolly Tea-tree	40	80	80	30	60	290	
	Lomatia myricoides	River Lomatia	20	40	40	10	30	140	
	Melicytus dentatus s.l.	Tree Violet	40	80	80	30	60	290	
	Myrsine howittiana	Mutton-wood	20	40	40	10	30	140	
	Olearia argophylla	Musk Daisy-bush	20	40	40	10	30	140	
	Olearia lirata	Snowy Daisy-bush	20	30	30	10	20	110	
	Pomaderris aspera	Hazel Pomaderris	40	80	80	30	60	290	
	Pomaderris racemosa	Cluster Pomaderris	10	20	20	10	20	80	
	Prostanthera lasianthos var. lasianthos	Victorian Christmas-bush	20	40	40	10	30	140	
	TOTAL		360	710	730	230	550		2,580
GRASSES, SEDGES 8	RUSHES								
	Carex appressa	Tall Sedge	70	130	140	50	100	490	
	Carex gaudichaudiana	Fen Sedge	10	20	20	10	20	80	
	Carex fascicularis	Tassel Sedge	30	50	60	20	40	200	
	Cyperus lucidus	Leafy Flat-sedge	70	130	140	50	100	490	
	Dianella tasmanica	Tasman Flax-lily	60	110	110	40	90	410	
	Dianella longifolia	Pale Flax-lily	30	50	60	20	40	200	
	Gahnia sieberiana	Red-fruit Saw-sedge	10	10	10	-	10	40	
	Juncus gregiflorus	Green Rush	30	50	60	20	40	200	
	Juncus sarophorus	Broom Rush	30	50	60	20	40	200	
	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush	240	430	460	150	340	1,620	
	Poa ensiformis	Sword Tussock-grass	20	30	30	10	30	120	
	TOTAL		600	1,060	1,150	390	850		4,050
	TOTAL PLANT NUMBERS		985	1,805	1,920	630	1,430		6,770

PLANT									
COMMUNITY	SPECIES			NUMI	BER OF PI	ANTS			
COMMONT	Botanical Name	Common Name			GETATION				
RIPARIAN F	OREST TYPE 2		RF2_1	RF2_2	RF2-3	RF2-4	RF2-5		
LOW PLANTING			990m2	200m2	165m2	700m2	320m2		
TREES									
	Eucalyptus viminalis ssp. viminalis	Manna Gum	5	1	2		2	10	
	Eucalyptus ovata	Swamp Gum	5	1	2		2	10	
	Eucalyptus camphora s.l.	Swamp Gum	2	0			1	3	
	TOTAL		12	3	4	-	5		23
GRASSES, SEDGES	& RUSHES								
	Carex appressa	Tall Sedge	100	20	20	70	30	240	
	Carex gaudichaudiana	Fen Sedge	20	-	-	10	10	40	
	Carex fascicularis	Tassel Sedge	30	10	10	20	10	80	
	Cyperus lucidus	Leafy Flat-sedge	80	20	10	70	30	210	
	Dianella tasmanica	Tasman Flax-lily	80	20	10	60	30	200	
	Dianella longifolia	Pale Flax-lily	50	10	10	40	20	130	
	Gahnia sieberiana	Red-fruit Saw-sedge	10	1=	-	10	-	20	
	Juncus gregiflorus	Green Rush	30	10	10	20	10	80	
	Juncus sarophorus	Broom Rush	30	10	10	20	10	80	
	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush	450	90	70	350	140	1,100	
	Poa ensiformis	Sword Tussock-grass	50	10	10	40	20	130	
	TOTAL		930	200	160	710	310		2,310
	TOTAL PLANT NUMBERS		942	203	164	710	315		2,333

PLANT										
COMMUNITY	SPECIES			NUMBER OF PLANTS						
	Botanical Name	Common Name		REVE	GETATION	ZONE		Total		
RIPARIAN FO	OREST TYPE 3		RF3_1	RF3_2	RF3_3	RF3_4	RF3_5			
PLANTING TO ERO	DED RIVER BANK AREAS									
	1			650m2		1120m2				
TREES										
	Eucalyptus viminalis ssp. viminalis	Manna Gum		10		10		20		
	Eucalyptus ovata	Swamp Gum		5		5		10		
	Acacia melanoxylon	Blackwood		10		20		30		
	TOTAL			25		35			60	
SHRUBS										
	Coprosma quadrifida	Prickly Currant-bush		15		25		40		
	Leptospermum continentale	Prickly Tea-tree		20		35		55		
	Leptospermum lanigerum	Woolly Tea-tree		40		70		110		
	Lomatia myricoides	River Lomatia		10		15		25		
	Melicytus dentatus s.l.	Tree Violet		15		30		45		
	Pomaderris aspera	Hazel Pomaderris		15		30		45		
	Pomaderris racemosa	Cluster Pomaderris		15		30		45		
	Prostanthera lasianthos var. lasianthos	Victorian Christmas-bush		10		15		25		
	TOTAL			140		250			390	
GRASSES, SEDGES	& RUSHES									
	Carex appressa	Tall Sedge		155		270		425		
	Cyperus lucidus	Leafy Flat-sedge		130		225		355		
	Dianella tasmanica	Tasman Flax-lily		155		270		425		
	Gahnia sieberiana	Red-fruit Saw-sedge		15		20		35		
	Juncus gregiflorus	Green Rush		65		110		175		
	Juncus sarophorus	Broom Rush		65		110		175		
	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush		650		1,120		1,770		
	Poa ensiformis	Sword Tussock-grass		65		110		175		
	TOTAL			1,300		2,235			3,535	
	10 1/16			1,500		2,233			5,555	
	TOTAL PLANT NUMBERS			1,465		2,520			3,985	
	TO TAL FLANT INDIVIDUAL			1,403		2,320			3,303	

PLANT COMMUNITY	SPECIES								
	Botanical Name	Common Name		REVE	GETATION 2	ZONE		Total	
SWAMPY RI	PARIAN WOODLAND		SRW_1	SRW_2	SRW_3	SRW_4	SRW_5		
			680m2		700m2				
TREES					7001112				
	Eucalyptus ovata	Swamp Gum	5		5			10	
	Eucalyptus camphora s.l.	Swamp Gum	5		5			10	
	Acacia melanoxylon	Blackwood	5		5			10	
	TOTAL								
SHRUBS									
	Coprosma quadrifida	Prickly Currant-bush	5	-	5	-	-	10	
	Leptospermum continentale	Prickly Tea-tree	10	-	10	-	=	20	
	Leptospermum lanigerum	Woolly Tea-tree	15	-	15	-	-	30	
	Melaleuca squarrosa	Scented Paperbark	15	-	15	-	-	30	
	TOTAL								
GRASSES, SEDGES	& RUSHES								
	Carex appressa	Tall Sedge	25		30	-	-	55	
wet	Carex gaudichaudiana	Fen Sedge	20		20	-	-	40	
wet	Carex fascicularis	Tassel Sedge	20	-	20	-	-	40	
	Cyperus lucidus	Leafy Flat-sedge	35		35	-	-	70	
	Dianella tasmanica	Tasman Flax-lily	35	-	35		-	70	
	Gahnia sieberiana	Red-fruit Saw-sedge	5		5	-	-	10	
	Juncus gregiflorus	Green Rush	15	1,	20	ı	-	35	
wet	Juncus procerus	Tall Rush	35		35	-	-	70	
	Juncus sarophorus	Broom Rush	15	-	20	-	-	35	
	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush	15	_	20	-	-	35	
	Poa ensiformis	Sword Tussock-grass	5	-	5	-	-	10	
	TOTAL								4
	TOTAL PLANT NUMBERS		285		305				5

PLANT	CDECIEC				o. n.	ANITO			
COMMUNITY	SPECIES				BER OF PL				
	Botanical Name	Common Name		REVE	GETATION 2	ZONE		Total	
WET VERGE	SEDGELAND		WVS_1	WVS_2	WVS_3	WVS_4	WVS_5		
			560m2	130m2	320m2				
TREES & SHRUBS									
	Eucalyptus ovata	Swamp Gum	2	-	2	-	-	4	
	Eucalyptus camphora s.l.	Swamp Gum	2	-	_	-	-	2	
	Melaleuca squarrosa	Scented Paperbark	6	2	4	-	-	12	
	Leptospermum lanigerum	Woolly Tea-tree	6	2	4	-	-	12	
	TOTAL	·							
HERBS, GRASSES, S	SEDGES & RUSHES								
	Baumea rubigenosa	Soft Twig-s edge	50	10	30			90	
	Baumea tetragona	Square Twig-rush	50	10	30	-	-	90	
	Carex appressa	Tall Sedge	30	10	20	-	-	60	
wet	Carex fascicularis	Tassel Sedge	20	5	10	-	_	35	
wet	Carex gaudichaudiana	Fen Sedge	60	10	30	-	-	100	
	Centella cordifolia	Centella	30	10	20	-	-	60	
	Cyperus lucidus	Leafy Flat-sedge	50	10	30	-	-	90	
	Cyperus gunnii	Flecked Flat-sedge	50	10	30	-	-	90	
	Dianella tasmanica	Tasman Flax-lily	10	5	10	-	-	25	
	Juncus gregiflorus	Green Rush	30	10	20	-	-	60	
wet	Juncus procerus	Tall Rush	50	10	30	-	-	90	
	Juncus sarophorus	Broom Rush	30	10	20	-	-	60	
	Lycopus australis	Australian Gipsywort	20	5	10	-	-	35	
	Mentha australis	River Mint	20	5	10	-	-	35	
wet	Persicaria praetermissa	Spotted knotweed	20	5	10	-	-	35	
wet	Persicaria subsessilis	Hairy Knotweed	20	5	10	-	-	35	
	Hypolepis rugosula	Ruddy Ground-fern	20	5	10	-	-	35	
	Austrocynoglossum latifolium	Forest Hound's-tongue	20	5	10	-	-	35	
	Poa ensiformis	Sword Tussock-grass	10	5	10	-	-	25	
	TOTAL								1,08
									1,11

COMMUNITY	SPECIES								
	Botanical Name	Common Name		REVE	GETATION	ZONE		Total	
HABITAT WE	TLAND		HW1	HW2	HW3	HW4	HW5		
SUBMERGED M	IARSH 350 to 700 mm below Normal Top Water	Level (NTWL)			110	m2			
	Myriophyllum variifolium	Varied Water-milfoil			90			90	
	Potamogeton ochreatus	Blunt Pondweed			90			90	
	Vallisneria australis	Eel Grass			40			40	
	TOTAL								
DEEP MARSH 15	50 to 350 mm below NTWL				560	m2			
	Cycnogeton procerum	Water Ribbon			1,340			1,340	
	Eleocharis sphacelata	Tall Spike-rush			220			220	
	Myriophyllum variifolium	Varied Water-milfoil			220			220	
	Potamogeton cheesenmanii	Red Pondweed			220			220	
	Potamogeton ochreatus	Blunt Pondweed			220			220	
	TOTAL								2,
SHALLOW MAR	RSH 0 to 150 mm below NTWL				460	m2			
	Alisma plantago-aquatica	Water Plantain			50			50	
	Baumea rubiginosa	Soft Twig-rush			90			90	
	Baumea tetragona	Square Twig-rush			90			90	
	Carex fascicularis	Tassel Sedge			190			190	
	Carex gaudichaudiana	Fen Sedge			230			230	
	Crassula helmsii	Swamp Crassula			120			120	
	Cycnogeton procerum	Water Ribbon			120			120	
	Cyperus gunnii	Flecked Flat-sedge			120			120	
	Cyperus lucidus	Leafy Flat-sedge			50			50	
	Eleocharis acuta	Common Spike-rush			230			230	
	Juncus procerus	Tall Rush			120			120	
	Juncus sarophorus	Broom Rush			120			120	
	Lythrum salicaria	Purple Loosestrife			70			70	
	Myriophyllum caput-medusae	Coarse Water-milfoil			120			120	
	Myriophyllum crispatum	Water-milfoil			230			230	
	Neopaxia australasica	White Purlsane			120			120	
	Persicaria praetermissa	Spotted Knotweed			50			50	
	Ranunculus amphitrichus	Small River Buttercup			120			120	
	Ornduffia reniformis	Running Marsh Flower			120			120	
	TOTAL								2,
Littoral Edge Lo	OWER 0 to 250 mm above NTWL				210	m2			
	Carex appressa	Tall Sedge			220			220	
	Centella cordifolia	Centella			60			60	
	Cyperus lucidus	Leafy Flat-sedge			160			160	
	Dianella tasmanica	Tasman Flax-lily			70			70	
	Hypolepis rugosula	Ruddy Ground-fern			60			60	
	Juncus gregiflorus	Green Rush			110			110	
	Juncus sarophorus	Broom Rush			110			110	
	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush			110			110	
	Lycopus australis	Australian Gipsywort			60			60	
	Mentha australis	River Mint			30			30	
	Persicaria decipiens	Slender Knotweed			60			60	
	Poa ensiformis	Sword Tussock-grass			60			60	
		0							1,
Littoral Edge U	pper 250 to 450mm above NTWL				330	m2			
	Carex appressa	Tall Sedge			330			330	
	Dianella tasmanica	Tasman Flax-lily			250			250	
	Gahnia sieberiana	Red-fruit Saw-Sedge			40			40	
	Juncus gregiflorus	Green Rush			200			200	
	Juncus sarophorus	Broom Rush			200			200	
Hwy side only	Leptospermum lanigerum	Woolly Tea-tree			200			200	
y side only	Lomandra longifolia subsp. longifolia	Spiny-headed Mat-rush			460			460	
	Poa ensiformis	Sword Tussock-grass			170			170	
	TOTAL	SWOID 10330CK-BIG55			1/0			170	1,
	IOIAL								1,

L506Dwg. No

DRAFT

Melbourne Water

Little Yarra River Trail
Project
Warburton Rail Trail to
Riversdale Road

Yarra Junction



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SEPT. 2022 Date



ABN 90 838 719 320

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