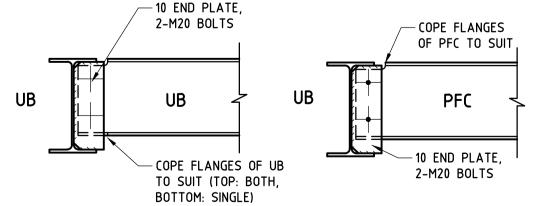
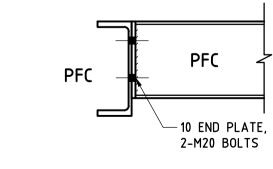


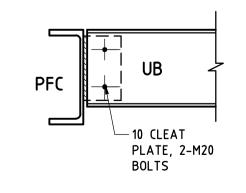
### DETAIL-STEEL BEAM TO COL.

DETAIL- UB TO UB



DETAIL- PFC TO UB





DETAIL- UB TO PFC DETAIL- PFC TO PFC

### **BOLTED BEAM CONNECTION SCHEDULE** SECTION BOLTS REQ,D 150,180,200,230 PFCs 10mm PLATE 2-M20 4.6/S 200 UB, UC 2-M20 4.6/S 10mm PLATE 250 UB, UC 10mm PLATE 2-M20 4.6/S 310 UB, UC 10mm PLATE 3-M20 8.8/S 360 UB 3-M20 8.8/S 10mm PLATE 410 UB 10mm PLATE 4-M20 8.8/S 460 UB 10mm PLATE 4-M20 8.8/S 530 UB 5-M20 8.8/S 10mm PLATE 610 UB 10mm PLATE 6-M20 8.8/S

TYPICAL BEAM CONNECTIONS WITH TO APPLY UNLESS DETAILED OTHERWISE. PROVIDE ADDITIONAL BOLTS AS REQUIRED SUIT BEAM SIZE.

### PRELIMINARY ISSUE FOR CLIENTS REVIEW (NOT FOR CONSTRUCTION)

### STORMWATER DRAINAGE

95% STANDARD COMPACTION.

OR HIS REPRESENTATIVE.

D1 CONSTRUCT STORMWATER DRAINS AND PITS AS DETAILED AND/OR SCHEDULED, PITS TO BE PROVIDED WITH LIDS AND COVERS AS SCHEDULED PITS WITH COVERS TO BE CAST INTO SLAB TO BE CONSTRUCTED TO +0/-20 OF FINAL LEVEL. LID TO BE INSTALLED BY CONTRACTOR.

DATE: 02.03.2023

- D2 ALL DRAINS UNDER DRIVEWAYS AND PARKING AREAS TO BE REINFORCED CONCRETE CLASS X UNLESS NOTED OTHERWISE. SEWER QUALITY PVC
- D3 EXCAVATED MATERIAL TO BE REMOVED FROM SITE TO LEGAL POINT OF
- DISPOSAL UNLESS AGREED OTHERWISE.
- D4 PIPE TO BE LAYED ON 75mm MINIMUM OF 12mm CRUSHED ROCK BEDDING.
- D5 PIPES TO BE BACKFILLED TO 150mm ABOVE TOP OF PIPE WITH CLASS 2A FCR COMPACTED IN 150 MAXIMUM LAYERS TO 95% STANDARD COMPACTION. PIPES UNDER CRUSHED ROCK OR ASPHALT PAVING TO BE BACK FILLED FULL DEPTH WITH CLASS 2A FCR AS ABOVE. TOP 300mm TO BE COMPACTED TO 100% STANDARD COMPACTION. PIPES ELSEWHERE TO BE BACKFILLED
- D6 LAYING OF DRAINS TO COMMENCE AT BOTTOM END OF DRAINS IN ALL CASES. CHECK LOCATIONS AT ALL OTHER RELEVANT SERVICES PRIOR TO
- D7 DRAINS TO BE INSPECTED AND APPROVED BY LOCAL AUTHORITY PRIOR TO

WITH SELECTED MATERIAL IN 150 MAXIMUN LAYERS COMPACTED TO

- BACK FILLING. D8 DRAINS AND PITS TO BE CLEANED OUT ON COMPLETION OF ALL SITE WORKS.
- D9 ANY FOOTPATHS, DRIVEWAYS, ROADWAYS, KERBS, R.O.W.S OR EXISTING FEATURES DISTURBED, BROKEN OR AFFECTED BY THE WORKS ARE TO BE REINSTATED TO THE COMPLETE SATISFACTION OF THE CITY ENGINEER
- D10 ALL CONCRETE TO BE SAW CUT AND BROKEN OUT TO THE NEAREST JOINT. D11 NO TREE ROOT SHALL BE CUT WITHOUT THE SPECIFIC PERMISSION OF THE CITY ENGINEER OR HIS REPRESENTATIVE

### **FOOTINGS**

**CONCRETE** 

SHALL BE AS FOLLOWS:-

PEDESTALS

OF APPLIED FINISHES.

PRIOR APPROVAL OF THE ENGINEER.

SHOWN IN TRUE PROJECTION

THE APPROVAL OF THE ENGINEER.

BAR DIAMETER IN MILLIMETRES.

SHALL BE AS NOTED ON THE DRAWINGS.

**ELEMENT** PAD /STRIP FOOTINGS

TOPPING/INFILL SLAB

BLINDING CONCRETE

RAFT SLAB

RAFT SLABS

C11 REINFORCEMENT SYMBOLS:-

FOOTINGS ARE TO BE FOUNDED IN ORIGINAL UNDISTURBED GROUND HAVING A SAFE BEARING CAPACITY OF 220 kPa. BEFORE ANY CONCRETE IS PLACED THE SAFE BEARING CAPACITY SHALL BE VERIFIED BY A QUALIFIED ENGINEER.

MINIMUM COVER (mm) TO ALL REINFORCEMENT UNLESS OTHERWISE SHOWN

SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS

SHOWN OR SPECIFICALLY APPROVED BY THE ENGINEER.

(9 WELDING OF REINFORCEMENT SHALL NOT BE PERMITTED WITHOUT

S STRUCTURAL GRADE DEFORMED BAR TO AS 1302.

R STRUCTURAL GRADE PLAIN ROUND BAR TO AS 1302

THE NUMBER FOLLOWING THE BAR SYMBOL IS THE NOMINAL

C13 CONCRETE COMPONENTS AND QUALITY SHALL BE AS FOLLOWS:-

RF HARD-DRAWN STEEL WIRE REINFORCING FABRIC TO AS 4671

C12 CAMBER - FORMWORK TO BEAMS AND SLABS SHALL BE SET TO A PRE-

DETERMINED LEVEL (ALLOWING FOR IMMEDIATE DEFLECTION OF SUPPORTING

STRUCTURE AND FORMWORK SETTLEMENT) TO GIVE ZERO NEGATIVE CAMBER

IMMEDIATELY AFTER CONCRETE PLACEMENT. ADDITIONAL POSITIVE CAMBERS

HOT-ROLLED DEFORMED BARS TO AS 4671

OR AS OTHERWISE APPROVED BY THE ENGINEER

BEAM DEPTHS ARE WRITTEN FIRST AND INCLUDE SLAB THICKNESS.

C5 NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON

THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT

CONSTRUCTION JOINTS SHALL BE PROPERLY FORMED AND USED ONLY WHERE

REINFORCEMENT IS REPRESENTED DIAGRAMMATICALLY AND NOT NECESSARILY

C8 SPLICES IN REINFORCEMENT SHALL BE MADE ONLY IN THE POSITIONS SHOWN

50

30

F2 REFER TO SOIL REPORT No. 25556-2 BY. STATEWIDE GEOTECHNICAL MANAGER FOR DECISION BEFORE PROCEEDING WITH THE WORK. DATED 18th OF AUGUST 2022 ALL DIMENSIONS RELEVANT TO SETTING OUT AND OFF SITE WORK SHALL BE VERIFIED BY THE CONTRACTOR BEFORE CONSTRUCTION AND FABRICATION IS

75

65

NORMAL

NORMAL

NORMAL

NORMAL

**GENERAL** 

COMMENCED. THE ENGINEERS DRAWINGS SHALL NOT BE SCALED. 1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH A.S. 3600 DURING CONSTRUCTION THE CONTRACTOR SHALL BE RESPONSIBLE FOR

SHALL BE OVERSTRESSED UNDER CONSTRUCTION ACTIVITIES.

WORKMANSHIP AND MATERIALS ARE TO BE IN ACCORDANCE WITH THE RELEVANT CURRENT S.A.A. CODES INCLUDING ALL AMENDMENTS AND THE LOCAL

MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART

THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL

AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH

OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF

THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE PROJECT

- STATUTORY AUTHORITIES. EXCEPT WHERE VARIED BY THE
- THE APPROVAL OF A SUBSTITUTION SHALL BE SOUGHT FROM THE ENGINEER, BUT IS NOT AN AUTHORIZATION FOR AN EXTRA. ANY EXTRA INVOLVED MUST BE TAKEN UP WITH THE PROJECT MANAGER BEFORE WORK COMMENCES.
- G6 ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE. ALL LEVELS ARE EXPRESSED IN METRES.
- THE STRUCTURAL WORK SHOWN ON THESE DRAWINGS HAS BEEN DESIGNED FOR

AREA	LIVE LOAD kN/m <sup>2</sup>
F00TPATH	X kPa
X	X
X	X

- G8 ALL PROPS AND FORMWORK FOR BEAMS AND SLABS SHALL BE REMOVED BEFORE CONSTRUCTION OF ANY MASONRY WALLS OR PARTITIONS ON THE FLOOR
- G9 ALL NON-LOADBEARING WALLS SHALL BE KEPT CLEAR OF THE UNDERSIDE OF

THE FOLLOWING LIVE LOADS:

- SLABS AND BEAMS BY 20mm UNLESS OTHERWISE SHOWN OTHERWISE.
- SITE PREPARATION C10 ALL REINFORCEMENT SHALL BE SUPPORTED IN ITS CORRECT POSITION DURING CONCRETING BY APPROVED BAR CHAIRS, SPACERS P1 EARTHWORKS SHALL BE COMPLETED IN ACCORDANCE WITH REQUIREMENTS OF

  - 25556-2 BY STATEWIDE GEOTECHNICAL P2 REFER SITE INVESTIGATION No. DATED 18th OF AUGUST 2022
  - REMOVE ALL TOP SOIL UNCOMPACTED FILL ROOT ZONE MATERIAL
  - TREES STUMPS,
  - INCORPORATION IN THE WORKS. TOP SOIL MAY BE STOCKPILED FOR LATER USE ALL OTHER MATERIAL TO BE REMOVED FROM SITE OTHER THAN BEST OF FILL SUFFICIENT OF WHICH SHALL BE RETAINED TO BALANCE FILLING.

PIPELINES. PREVIOUS CONSTRUCTION AND OTHER MATERIALS UNSUITABLE FOR

- PRIOR TO PLACEMENT OF ANY FILL MATERIAL, THE EXPOSED SURFACE IS TO BE PROOF ROLLED WITH FULLY LOADED TANDEM TIPPER WITH TYRES INFLATED TO 550KPa. THIS MUST BE CARRIED OUT IMMEDIATELY AFTER COMPLETION OF COMPACTION. ANY MATERIAL SHOWING MOVEMENT TO BE REMOVED AND REPLACED FOR RETESTING.
- MINIMUM RELATIVE COMPACTION OF COMPLETED WORKS SHALL BE AS FOLLOWS: **BUILDING AREAS**

UNLESS NOTED ON PLAN. NO TREES TO BE REMOVED WITHOUT THE CONSENT

S1 ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 4100

S2 WELDING SHALL BE PERFORMED BY AN EXPERIENCED OPERATOR IN ACCORDANCE

THE CONTRACTOR SHALL PROVIDE AND LEAVE IN PLACE UNTIL PERMANENT

CONCRETE ENCASED STEELWORK SHALL BE WRAPPED WITH RF41 FABRIC UNLESS

BRACING ELEMENTS ARE CONSTRUCTED SUCH TEMPORARY BRACING AS IS

THE ENDS OF ALL TUBULAR MEMBERS ARE TO BE SEALED WITH NOMINAL

COPIES OF THE SHOP DRAWINGS TO THE PROJECT MANAGER FOR REVIEW.

S10 EXCEPT WHERE OTHERWISE SHOWN WELDS SHALL BE 6mm CONTINUOUS FILLET.

BY DATE

ET 02.03.23

S8 BEFORE FABRICATION IS COMMENCED THE CONTRACTOR SHALL SUBMIT

UNLESS OTHERWISE SPECIFIED ALL STEELWORK SHALL BE PAINTED

ONE SHOP COAT OF INORGANIC ZINC SILICATE. MEMBERS ENCASED IN

CONCRETE, FIRE SPRAYED AND FRICTION-GRIP BOLTED CONNECTIONS

REVIEW DOES NOT INCLUDE CHECKING OF DIMENSIONS.

THICKNESS PLATES CONTINUOUS FILLET WELDED UNLESS OTHERWISE SHOWN.

NECESSARY TO STABILISE THE STRUCTURE DURING ERECTION.

- ROAD, DRIVEWAY AND CARPARK AREA >0.3m BELOW PAVEMENT SUBGRADE - 95% STANDARD COMPACTION
- FILL MATERIAL SHALL BE IMPORTED GRANULAR MATERIAL, SANDSTONE MUDSTONE OR STABLE SILURIAN CLAY, SAMPLES AND SOURCE SHALL BE PROVIDED FOR APPROVAL OFF CONSULTING
- ENGINEER. MATERIAL IN STOCKPILE MAY BE USED. P8 ALLOW FOR THREE COMPACTION TESTS ON COMPLETED WORKS.
- R3 PROVIDE 0.2mm POLYTHENE MEMBRANE LAPPED AND TAPPED AT ALL JOINTS P9 COMPLETED SURFACE LEVEL TOLERANCE TO BE 20mm OF DESIGN LEVELS.

OF THE LOCAL COUNCIL AND PROJECT MANAGER.

S3 HIGH STRENGTH FRICTION GRIP BOLTING SHALL BE IN

S7 CAMBER TO BE AS NOTED ON THE DRAWINGS.

PRELIMINARY ISSUE P1

STRUCTURAL STEELWORK

ACCORDANCE WITH AS 1511

OTHERWISE SHOWN.

WITH AS 1554

- AND TAPED AROUND ALL PIPES WHICH PENETRATE SLAB. 10 ENSURE THAT WORKS ARE KEPT FREE DRAINING AT ALL TIMES. CONSTRUCT R4 REINFORCEMENT TO SLAB BEAMS TO BE LAPPED 500 MINIMUM AND HAVE 50 TEMPORARY SURFACE DRAINS AS REQUIRED.
- COVER. USE PLASTIC TRENCH MESH SUPPORT CHAIRS TO ALL REINFORCEMEN R5 REINFORCEMENT TO SLABS TO HAVE 25 TOP COVER AND TO BE SUPPORTED ON

R1 ALL SLAB BEAM EXCAVATIONS TO BE KEPT DRY PRIOR TO POURING SLAB.

R2 PROVIDE 50mm LAYER OF PACKING SAND TO ENTIRE SLAB AREA.

SOFT AREAS TO BASE OF TRENCH MUST BE REMOVED AND FILLED WITH WEAK

- BAR CHAIRS AT 900 MAXIMUM CTS. BOTH WAYS. LAP 2 BARS + 25mm AS R6 CONCRETE TO HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF
- 25MPa, MAXIMUM SLUMP TO BE 80mm.
- R7 CONCRETE SHALL BE MECHANICALLY VIBRATED DURING PLACEMENT.
- R8 SLAB SURFACE TO BE KEPT CONTINUALLY DAMP FOR 7 DAYS AFTER PLACEMENT USING EITHER SAND OR HESSIAN
- R9 ALL DRAINAGE, SEWER AND WATER SUPPLY PIPES, AS WELL AS GUTTERS AND DOWNPIPES SHOULD BE PERIODICALLY CHECKED FOR LEAKAGE AND REPAIRED AS NECESSARY, SERVICE TRENCHES, LOCATED ALONGSIDE THE BUILDING SHOULD BE OFFSET A LATERAL DISTANCE DISTANCE AT LEAST EQUAL TO THEIR DEPTH. TRENCHES FORMED WITHIN A CLAY PROFILE SHALL BE BACKFILLED WITH CLAY WHICH IS PLACED IN LIFTS AND WELL COMPACTED SO AS TO CONTROL
- R10 PROVIDE TERMITE PROTECTION AS PER LOCAL COUNCIL REQUIREMENTS & TO AS 3660.1-2000. & AS 3660.2 TERMITE MANAGEMENT CODES

- T1 ALL TIMBER FRAMING TO BE IN ACCORDANCE WITH AS 1684- RESIDENTIAL IMBER-FRAMED CONSTRUCTION.
- T2 SECURELY BRACE STUDWORK WITH TECO SPEED BRACING OR PLYWOOD IN ACCORDANCE WITH AS 1684 RESIDENTIAL TIMBER FRAMED CONSTRUCTION.
- T3 SECURELY ANCHOR ALL ROOF FRAMING TO SUPPORTING WALLS IN ACCORDANCE WITH AS 1684
- T4 PROVIDE DOUBLE JOISTS UNDER ALL WALLS PARALLEL WITH FLOOR JOISTS
- T5 PROVIDE DOUBLE STUDS EACH SIDE OF OPENINGS WIDER THAN 1600mm. & LINTELS SUPPORTING GIRDER TRUSSES & TO END OF TIMBER BEAMS.
- T6 ROOF TRUSSES TO MANUFACTURERS DESIGN & DETAIL. TRUSS LAYOUT IS TO BE SUBMITTED TO CONSULTING ENGINEER FOR APPROVAL PRIOR TO
- CONSTRUCTING WALL FRAMES [7] ALL EXPOSED TIMBER TO BE H3 PRESERVATIVE TREATED OR DURABILITY CLASS 1 OR 2. ALL IN GROUND TIMBER TO BE H5 PRESERVATIVE TREATED
- OR H6 IN SALT WATER CONTACT
- 8 PROVIDE TERMITE PROTECTION AS PER LOCAL COUNCIL REQUIREMENTS & TO AS 3660.1-2000 & AS 3660.2, TERMITE MANAGEMENT CODES
- ALL EXPOSED TIMBER TO BE H3 PRESERVATIVE TREATED OR DURABILITY
- CLASS 1 OR 2. ALL IN GROUND TIMBER TO BE H5 PRESERVATIVE TREATED OR H6 IN SALT WATER CONTACT
- TR PROVIDE TERMITE PROTECTION AS PER LOCAL COUNCIL REQUIREMENTS & TO AS 3660.1-2000 & AS 3660.2, TERMITE MANAGEMENT CODES
- BITUMINOUS CONCRETE PAVING

### CONSTRUCT PAVEMENT, KERBS, SPOON DRAINS, ETC. AS DETAILED TO FINISHED LEVELS AS SHOWN. REFER SITE PREPARATION NOTES FOR

SUBGRADE PREPARATION.

- B2 ALL PITS, DRAINS AND OTHER SERVICES TO BE COMPLETED PRIOR TO COMMENCEMENT OF SUB-BASE PREPARATION.
- B3 CONSTRUCT KERBS, CHANNELS AND SPOON DRAINS, AS DETAILED.
- PLACE BASE COURSE AS DETAILED. SUPPLY CRUSHED ROCK AT OPTIMUM MOISTURE CONTENT OR PROVIDE WATER CARTS TO ENSURE PLACEMENT
- AT OPTIMUM MOISTURE CONTENT. PROVIDE SUITABLE EQUIPMENT TO COMPACT CRUSHED ROCK TO 100% STANDARD COMPACTION.
- B5 COMPLETE BASE MATERIAL TO BE INSPECTED AND APPROVED BY CONSULTING ENGINEER, PROOF ROLL WITH FULLY LOADED TIP TRUCK
- B6 SURFACE TOLERANCE TO BE +20/-0
- B7 SWEEP PAVEMENT BASE SURFACE TO REMOVE ALL LOOSE MATERIAL AND REMOVE ALL CLAY SPOTS.
- PLACE 10mm MAXIMUM AGGREGATE ASPHALT TO COMPACTED THICKNESS AS DETAILED. COMPACT WITH SMOOTH STEEL DRUM ROLLER FOLLOWED BY PNEUMATIC-TYRED ROLLER. FINAL ROLL WITH SMOOTH STEEL DRUM
- ALLOW SURFACE TO COOL PRIOR TO ALLOWING ACCESS TO TRAFFIC
- B10 LINE MARK CAR PARKING BAYS AND OTHER REQUIRED ROAD MARKINGS WITH 75mm WIDE WHITE ROAD MARKING PAINT.

# **GEORGE E APTED & ASSOCIATES**

## PTY. LTD.

### **CONSULTING ENGINEERS**

33 BROUGHAM STREET, ELTHAM, 3095 A.B.N. 73 093 450 161

FAX. (03) 9439-5121 TEL. (03) 9439-4144

BRIDGE + CULVERTS (LANDSCAPE)

## LITTLE YARRA RIVER TRAIL

RIVERSDALE ROAD YARRA JUNCTION

### ARCHITECT/CLIENT

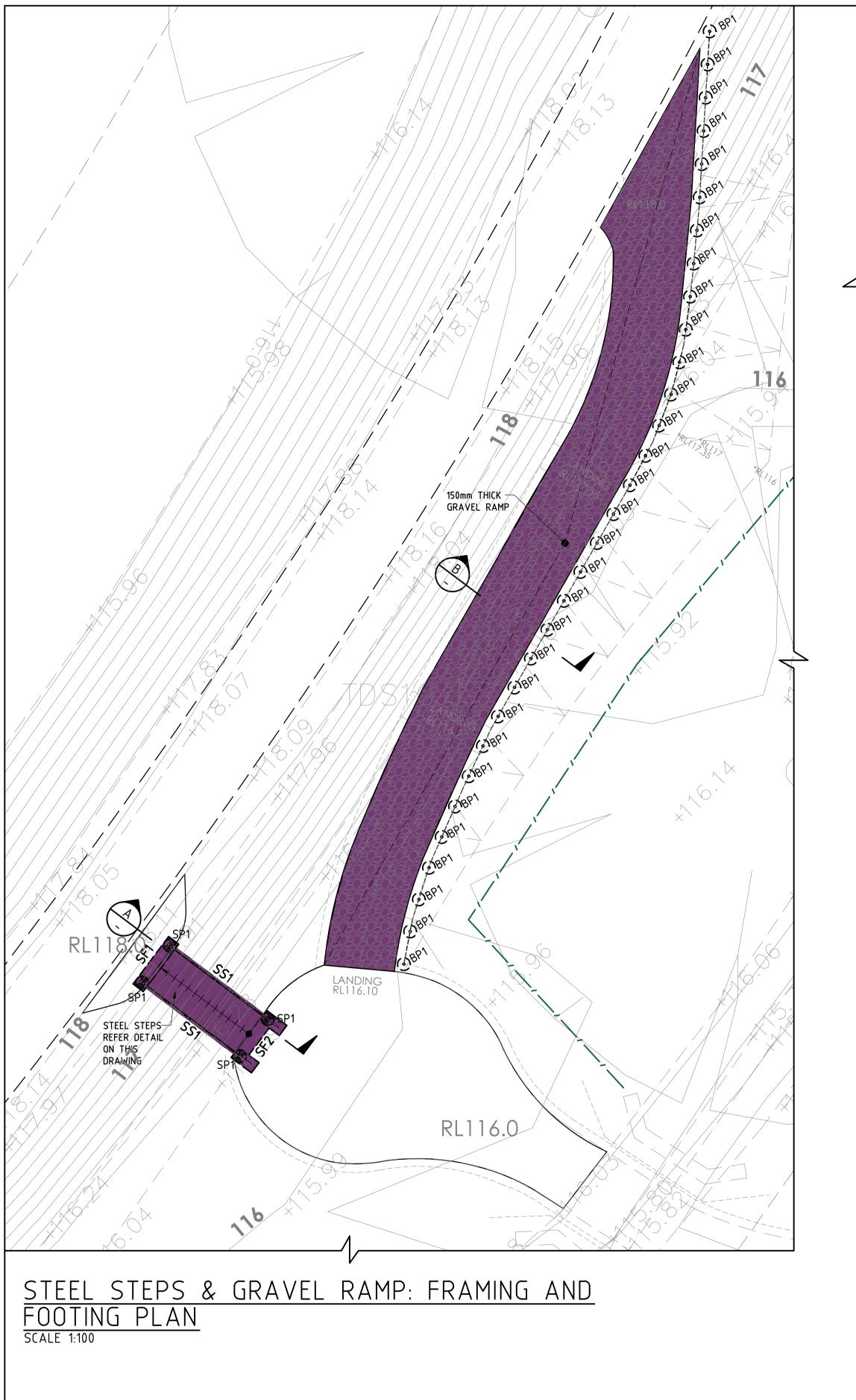
JO HENRY

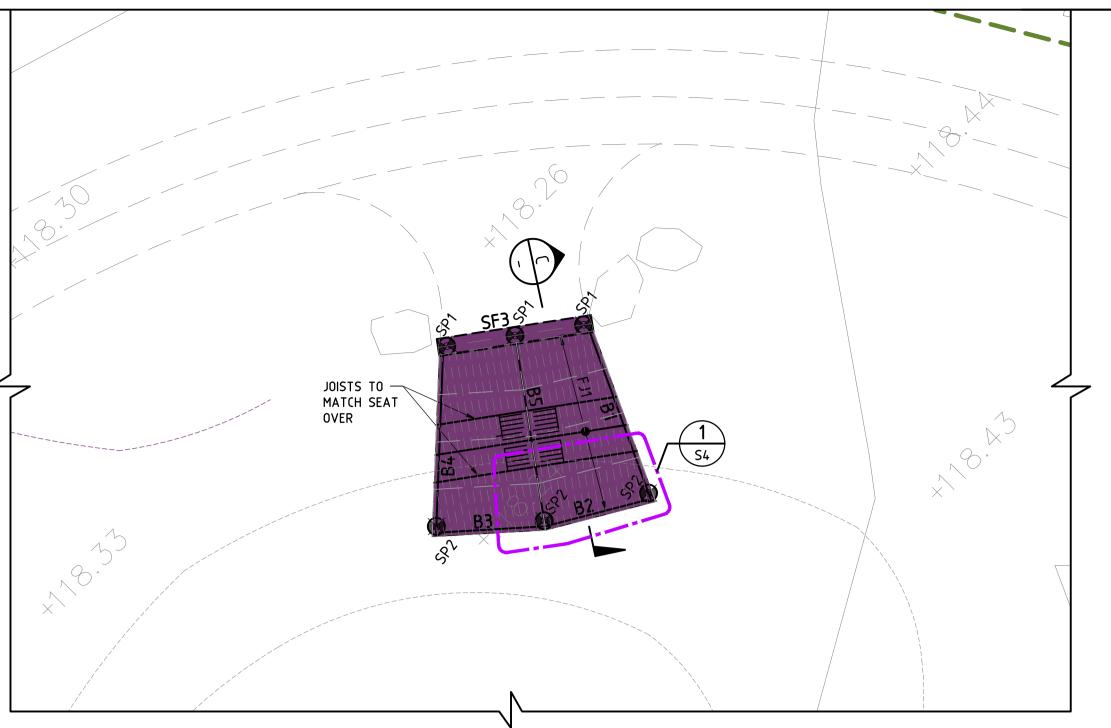
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DRAWING TITLE NOTES, SECTIONS AND DETAILS

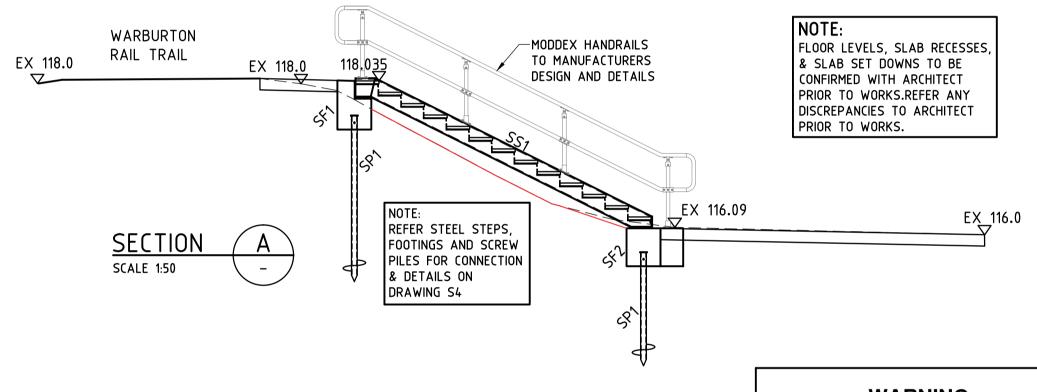
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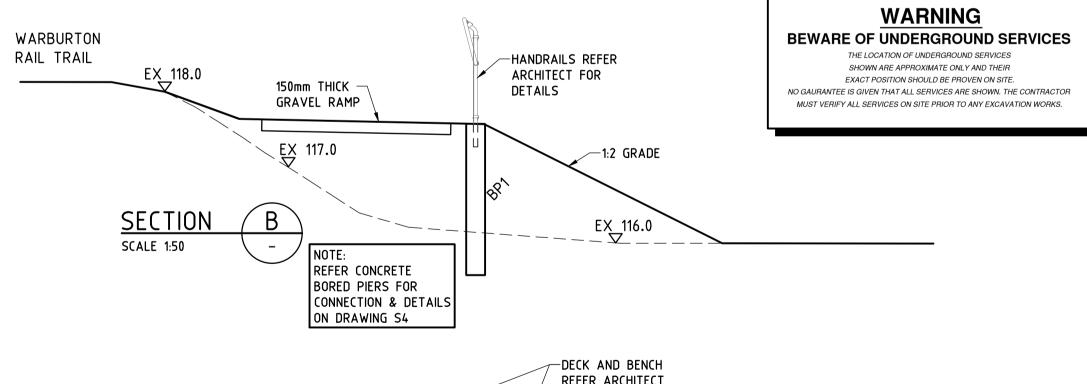
REV. P1

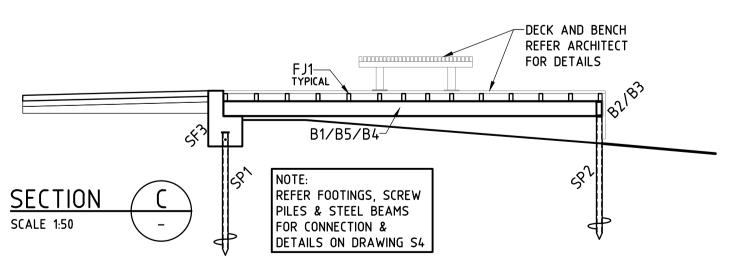


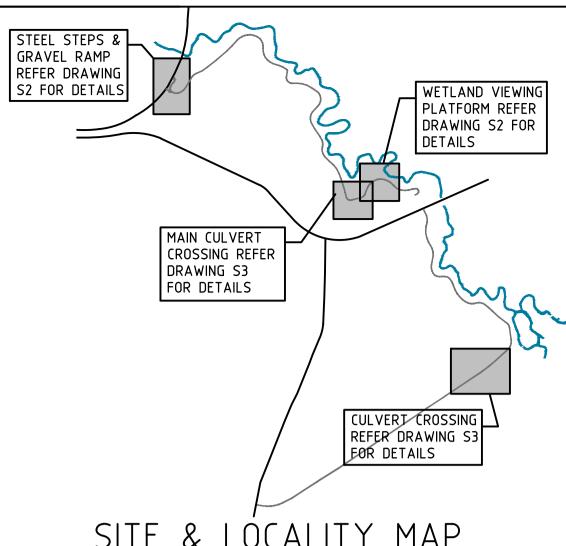


WETLAND VIEWING PLATFORM: FRAMING AND FOOTING PLAN









211	L	<b>⊘</b>	LUC	ALII	l	MAF
NOT	TO	SCALE				

MEMBER	SCHEDULE	
MARK	SIZE	REMARKS
B1	200 PFC	HOT DIPPED GALVANISED
B2,B3	200 PFC	MITRE CUT + FSBW, HOT DIPPED GALVANISED
B4	200 PFC	HOT DIPPED GALVANISED
B5	200 UB 29.8	HOT DIPPED GALVANISED
FJ1	100x50x3.0 RHS C350LO CONTINUOUS @ 450 CTS. MAX.	HOT DIPPED GALVANISED
SS1	250 PFC - STEPS STRINGER	HOT DIPPED GALVANISED

- 1. STEEL FABRICATOR MUST SUBMIT SHOP DRAWINGS TO CONSULTING ENGINEER FOR APPROVAL PRIOR TO FABRICATION 2. STEEL FABRICATOR SHALL LIAISE WITH TILT PANEL SHOP DETAILER
- PRIOR TO FABRICATION OF ANY STEELWORK. 3. ALL STEELWORK TO BE ONESTEEL GRADE 300

STRIP FOOTINGS & BORED PIERS & SCREW PILES SCHEDULE				
MARK No. SIZE + REINFORCEMENTS + REMARKS				
SF1	450 WIDE x 600 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT & PROFILE ON DRAWING S4 FOR DETAILS			
SF2	450 WIDE x 500 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT & PROFILE ON DRAWING S4/S2 FOR DETAILS			
SF3	450 WIDE x 600 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT & PROFILE ON DRAWING S4 FOR DETAILS			
SF4	450 WIDE x 600 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT & PROFILE ON DRAWING S5 FOR DETAILS			
SF5	450 WIDE x 600 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT ON DRAWING S5 FOR DETAILS SUPPORTING WING WALL (WW1)			
SF6	450 WIDE x 500 DEEP MIN. STRIP FOOTING, REFER REINFORCEMENT ON DRAWING S4 FOR DETAILS			
SP1/SP2	NOMINAL 76mm DIAMETER HOT DIPPED GALVANISED SCREW PILES TO PILE MANUFACTURERS DESIGN, DETAIL, AND CERTIFICATION. PILES TO HAVE MIN. SAFE WORKING LOAD OF 75 kN.			
BP1	450Ø x 2000 MIN. DEEP BORED PIER SUPPORTING TRAIL HANDRAILS. HANDRAIL TO MANUFACTURERS DESIGN AND DETAIL.			

REV/No.	REVISION/ISSUE	BY	DATE
P1	PRELIMINARY ISSUE P1	ET	02.03.23

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BRIDGE + CULVERTS (LANDSCAPE) LITTLE YARRA RIVER TRAIL RIVERSDALE ROAD YARRA JUNCTION

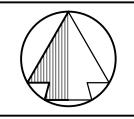
TEL. (03) 9439-4144

REV. P1

ARCHITECT/CLIENT

JO HENRY

DESIGNED K.A. E.T. PRELIMINARY 1:100 @ A1



PRELIMINARY ISSUE FOR

CLIENTS REVIEW

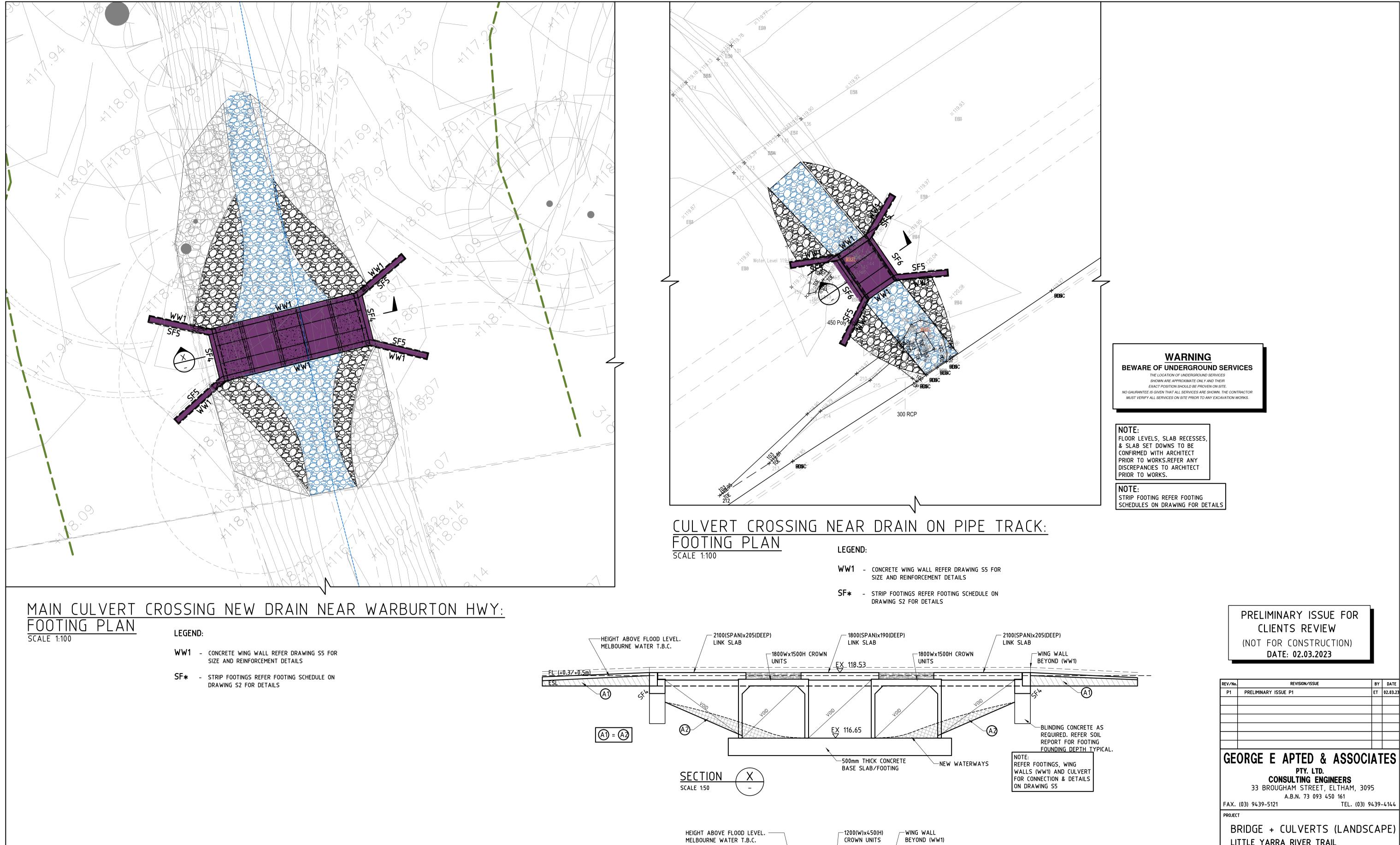
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DATE: 02.03.2023

FOOTINGS & FRAMING PLANS, SECTION A,B & C

NORTH

22096-S2



EX 119.95

₩EX 119.20

-300mm THICK CONCRETE

BASE SLAB/FOOTING

-NEW WATERWAYS

\_\_\_\_FL\_(+0.3/\_0.5m)\_\_\_\_\_

FSL

ET 02.03.23

CONSULTING ENGINEERS
33 BROUGHAM STREET, ELTHAM, 3095

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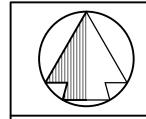
BRIDGE + CULVERTS (LANDSCAPE) LITTLE YARRA RIVER TRAIL

RIVERSDALE ROAD YARRA JUNCTION

ARCHITECT/CLIENT

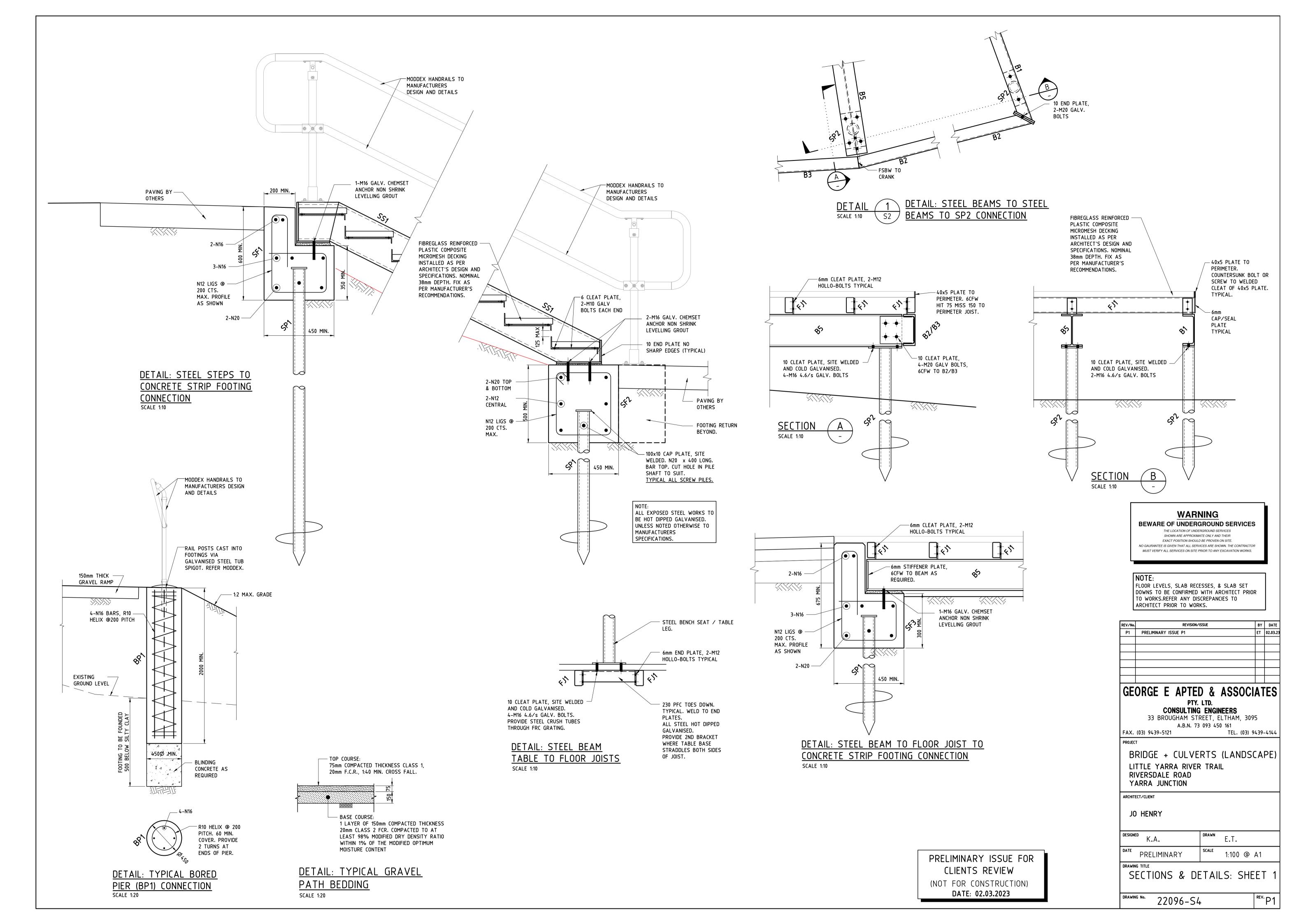
JO HENRY

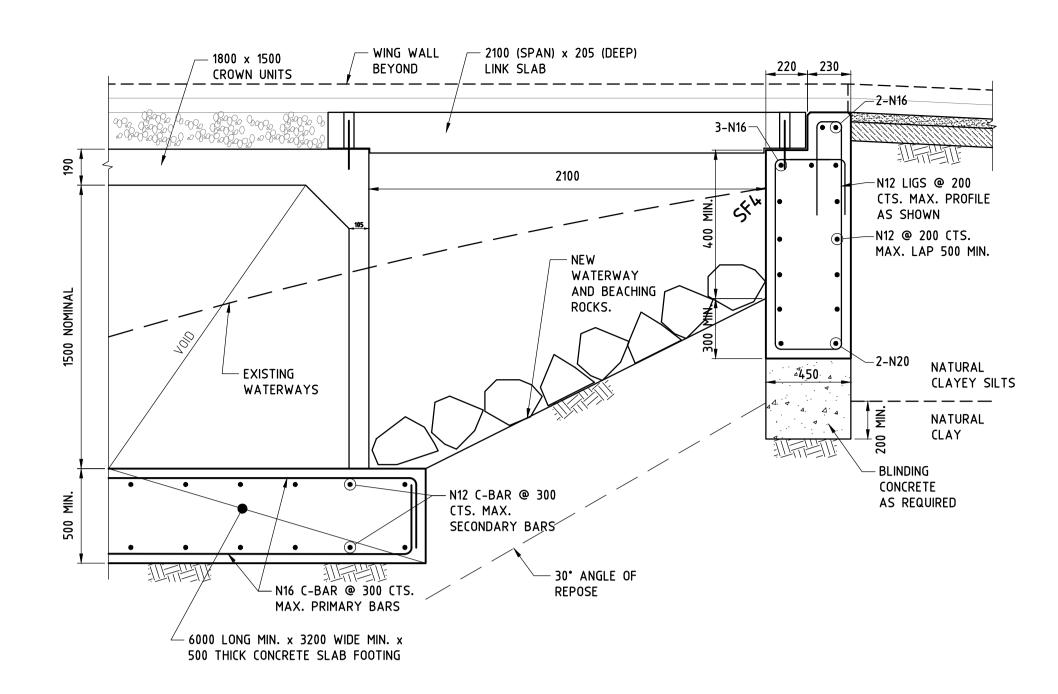
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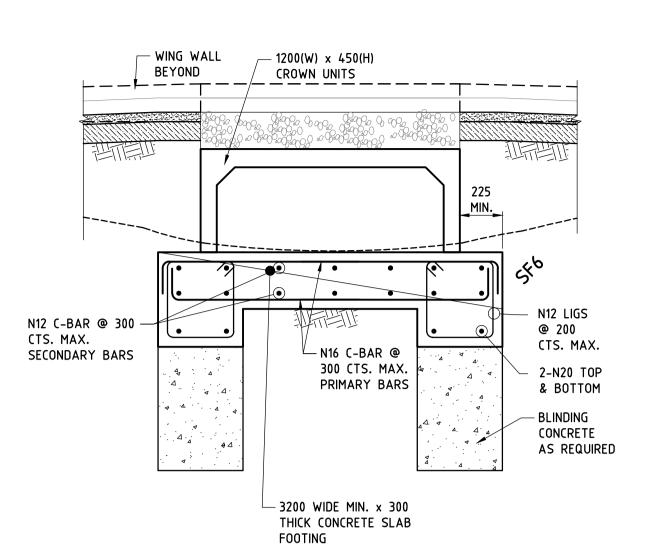
CULVERTS CROSSING: FOOTING AND SECTION DETAILS

DRAWING No. 22096-S3 NORTH

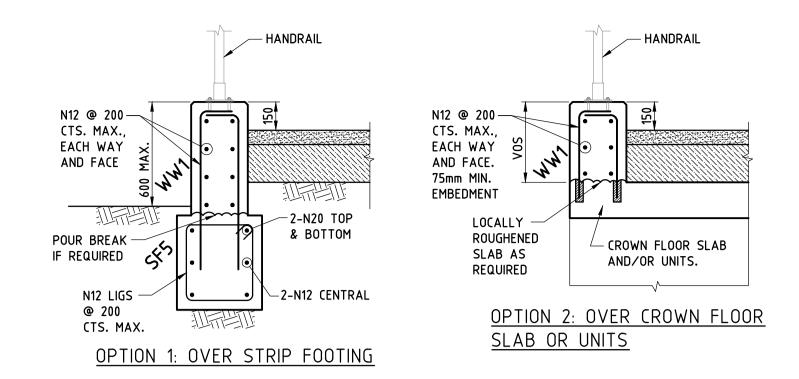




DETAIL: TYPICAL CONC. STRIP FOOTING TO CULVERT TO 500mm THICK CON. SLAB CONNECTION SCALE 1:20



DETAIL: TYPICAL CONC. STRIP FOOTING TO CULVERT TO 300 THICK CONC. SLAB CONNECTION SCALE 1:20



DETAIL: TYPICAL CONCRETE WING WALL (WW1) CONNECTION

### WARNING

**BEWARE OF UNDERGROUND SERVICES** THE LOCATION OF UNDERGROUND SERVICES SHOWN ARE APPROXIMATE ONLY AND THEIR

EXACT POSITION SHOULD BE PROVEN ON SITE. NO GAURANTEE IS GIVEN THAT ALL SERVICES ARE SHOWN. THE CONTRACTOR MUST VERIFY ALL SERVICES ON SITE PRIOR TO ANY EXCAVATION WORKS.

### NOTE:

FLOOR LEVELS, SLAB RECESSES, & SLAB SET DOWNS TO BE CONFIRMED WITH ARCHITECT PRIOR TO WORKS.REFER ANY DISCREPANCIES TO ARCHITECT PRIOR TO WORKS.

REV/No.	REVISION/ISSUE	BY	DATE
P1	PRELIMINARY ISSUE P1	ET	02.03.2

## GEORGE E APTED & ASSOCIATES

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BRIDGE + CULVERTS (LANDSCAPE)

LITTLE YARRA RIVER TRAIL RIVERSDALE ROAD

ARCHITECT/CLIENT

JO HENRY

YARRA JUNCTION

	DESIGNED K.A.	DRAWN	E.T.
	PRELIMINARY	SCALE	1:100 @ A1
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SECTIONS & DETAILS: SHEET 2

NORTH

22096-S5

REV. P1

PRELIMINARY ISSUE FOR CLIENTS REVIEW (NOT FOR CONSTRUCTION) DATE: 02.03.2023