

A03 CIVIL/STRUCTURAL DOCUMENTATION  
St Kilda

PLANNING and ENVIRONMENT ACT  
PORT PHILLIP PLANNING SCHEME

PERMIT NO. PA2402869

ENDORSED PLAN  
Sheet 1 of 13

Signed:  for

MINISTER FOR PLANNING

Date: 13 JUNE 2024

YARRA TRAMS DRIVER AMENITIES  
ST KILDA , PARK STREET VIC 3182

DRAWING LIST

DRAWING No.	DRAWING TITLE
WGA231689-DR-CV-4001	CIVIL DRAWING LIST & STANDARD NOTES - SHEET 1
WGA231689-DR-CV-4002	CIVIL DRAWING LIST & STANDARD NOTES - SHEET 2
WGA231689-DR-CV-4003	CIVIL DRAWING LIST & STANDARD NOTES - SHEET 3
WGA231689-DR-CV-4004	CIVIL DRAWING LIST & STANDARD NOTES - SHEET 4
WGA231689-DR-CV-4005	CIVIL WORKS
WGA231689-DR-CV-4006	CIVIL DETAILS - SHEET 1
WGA231689-DR-CV-4007	CIVIL DETAILS - SHEET 2
WGA231689-DR-CV-4008	CIVIL DETAILS - SHEET 3
WGA231689-DR-CV-4009	CIVIL DETAILS - SHEET 4

GENERAL NOTES:

- THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL CONSULTANT DRAWINGS, THE SPECIFICATION AND WITH ANY OTHER WRITTEN INSTRUCTIONS ISSUED DURING THE COURSE OF THE CONTRACT.
- REFER TO ARCHITECTS DRAWINGS FOR ALL FINISHES AND COLOURS.
- REFER SERVICES DRAWINGS FOR SERVICES CONDUITS REQUIREMENTS AND LOCATIONS.

HEALTH AND SAFETY:

- THE OBLIGATION OF WGA AS THE DESIGN ENGINEER IS LIMITED TO ENSURING THAT THOSE PARTS OF THE BUILDING OR STRUCTURE THAT ARE TO BE USED AS A WORKPLACE ARE, AS FAR AS REASONABLY PRACTICABLE, DESIGNED TO BE SAFE AND WITHOUT RISKS TO THE HEALTH OF THOSE PERSONS USING THE BUILDING OR STRUCTURE AS A WORKPLACE FOR THE PURPOSE FOR WHICH IT WAS DESIGNED IN ACCORDANCE WITH SECTION. 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004 (VIC).
- WGA IS NOT RESPONSIBLE FOR THE OCCUPATIONAL HEALTH AND SAFETY OF PERSONS AT THE SITE AS THOSE OBLIGATIONS RESIDE WITH THE CONTRACTOR AND/OR SUB-CONTRACTORS WHO OCCUPY OR HAVE CONTROL OF THE SITE IN ACCORDANCE WITH APPLICABLE OCCUPATIONAL HEALTH AND SAFETY LEGISLATION, CODES OR PRACTICE, GUIDANCE NOTES, AUSTRALIAN STANDARDS AND OTHER RELEVANT DOCUMENTATION.
- ANY ADVICE OR GUIDANCE CONCERNING OCCUPATIONAL HEATH AND SAFETY ISSUES ARISING AT THE SITE SHOULD BE DIRECTED TO THE HEALTH AND SAFETY OFFICER NOMINATED FOR THE PROJECT.

OH&S REQUIREMENTS:

- THE CONTRACTOR MUST ENSURE THE SAFETY OF THE CONTRACTOR'S EMPLOYEES AND ALL OTHER PEOPLE WHO ARE ON OR ADJACENT TO THE SITE. THE CONTRACTOR MUST COMPLY WITH THE VICTORIAN OCCUPATIONAL HEALTH AND SAFETY ACT.
- THE CONTRACTOR MUST ENSURE THAT ALL PEOPLE EMPLOYED ON THE SITE WEAR APPROVED SAFETY PERSONAL PROTECTION EQUIPMENT. THIS INCLUDES SAFETY HELMETS, SAFETY BOOTS, EAR AND EYE PROTECTION, WHERE APPROPRIATE.
- THE CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES WITHIN THE WORKS AFFECTED AREAS PRIOR TO COMMENCING ANY WORKS.
- THE CONTRACTOR MUST PROPERLY AND ADEQUATELY SAFEGUARD THE WORKS AND ANY FIXED AND UNFIXED MATERIALS ON THE SITE DURING WORKING AND NON-WORKING HOURS.
- THE CONTRACTOR MUST ENSURE THE SAFETY OF ANY PERSON WHO MAY ENTER OR TRESPASS UPON ANY PART OF THE SITE AT ANY TIME. THE CONTRACTOR MUST NOT USE GUARD DOGS TO PROTECT THE SITE IF IT IS REASONABLY ADJACENT TO A RESIDENTIAL AREA.

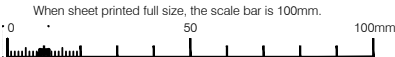
IMPORTANT DRAINAGE NOTE:

WHERE NEW DRAINS ARE NOTED TO BE CONNECTED INTO EXISTING DRAINS,  
THE CONTRACTOR IS TO VERIFY THE ASSUMED INVERT LEVELS OF ALL THE  
EXISTING DRAINS 'BEFORE' ANY NEW DRAINS ARE LAID.  
THE SUPERINTENDENT IS TO BE INFORMED OF ANY DISCREPANCIES IN EXISTING  
INVERT LEVELS PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS.

SAFETY IN DESIGN (SID)

- AS REQUIRED UNDER SECTION 28 OF THE OCCUPATIONAL HEALTH AND SAFETY ACT 2004, WGA HAS UNDERTAKEN A SAFETY IN DESIGN (SID) ASSESSMENT FOR THIS PROJECT AND, AS DESIGNERS, WE ARE TO PROVIDE WRITTEN COMMUNICATION TO OUR CLIENT THAT SPECIFIES THE HAZARDS OF OUR DESIGN, AS WE ARE REASONABLY AWARE, THAT:
  - CREATE A RISK TO THE HEALTH OR SAFETY OF PERSONS WHO ARE INVOLVED IN THE CONSTRUCTION, OPERATION, MAINTENANCE AND DECOMMISSIONING OF THE PROJECT; AND
  - THAT ARE SPECIFIC TO THIS PROJECT.
- THE SCOPE OF WGA'S SID ASSESSMENT IS LIMITED TO HAZARDS THAT ARE REASONABLY FORESEEABLE AT THE TIME OF DESIGN AND THAT COULD RESULT FROM DESIGN ASPECTS OF THE PROJECT THAT WGA ARE RESPONSIBLE FOR.
- THIS ASSESSMENT DOES NOT SEEK TO IDENTIFY ALL CONSTRUCTION SITE HAZARDS COMMONLY ENCOUNTERED WITH PROJECTS OF THIS NATURE, FOR WHICH THE IDENTIFICATION AND MANAGEMENT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR. OUR ASSESSMENT ASSUMES ANY WORK UNDERTAKEN IN THE PROJECT UNDER THE CONTRACTOR WILL BE CARRIED OUT BY SUITABLY QUALIFIED PERSONNEL WITH APPROPRIATE EXPERIENCE AND COMPETENCE TO UNDERTAKE SUCH TASKS.
- ANY ADDITIONAL HAZARDS OR RISKS THAT MAY ARISE DURING THE PROJECT LIFE NOT COVERED IN THIS REPORT SHOULD BE BROUGHT TO THE ATTENTION OF WGA FOR REVIEW AND DIRECTION ON RESOLUTION.
- WGA'S SID PROCESS INVOLVED THE FOLLOWING STEPS:
  - HAZARD IDENTIFICATION.
  - CONSEQUENCE ASSESSMENT.
  - RISK RATING.
  - IDENTIFICATION OF CONTROL MEASURES TO MITIGRATE RISK.
  - INCORPORATION OF CONTROL MEASURES INTO DESIGN.
  - RISK RE-RATING OF HAZARDS.REFER TO RISK MATRIX WGA231689-SD-AA-0001[A] FOR THE DETAILED SID ASSESSMENT FOR THIS PROJECT.
- THE CLIENT MUST PROVIDE A COPY OF THIS ASSESSMENT TO THE PRINCIPAL CONTRACTORS TENDERING ON THIS PROJECT, MAINTENANCE PERSONNEL AND BUILDING USERS.

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CONSTRUCTION  
ISSUE

Ø	29.01.24	CONSTRUCTION ISSUE	MM	MM	SK
Δ	11.12.23	PRELIMINARY ISSUE	MM	MM	SK
REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
WGA					
YARRA TRAMS DRIVER AMENITIES					
ST KILDA					
PARK STREET ST KILDA VIC 3182					
CIVIL DRAWING LIST & STANDARD NOTES - SHEET 1					
A3	Scale	DRAWING NUMBER		Job Number	Sheet No. Rev.
Design M.M	Drawn M.M	WGA231689-DR-CV-4001			Ø

CONCRETE NOTES:

- 1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS 3600 (CONCRETE STRUCTURES), THE SPECIFICATION AND DETAILS PROVIDED ON THE DRAWINGS, UNLESS INSTRUCTED OTHERWISE BY WGA.
- 2. ALL FORMWORK SHALL CONFORM WITH AS 3610.
- 3. THE BUILDER SHALL COORDINATE WITH ALL TRADES TO ENSURE THAT PROVISION IS MADE FOR ALL NECESSARY REBATES OR OPENINGS IN CONCRETE, AND CASTING IN OF CONDUITS, WHETHER OR NOT SPECIFICALLY DETAILED ON THE DRAWINGS.
- 4. CLEAR CONCRETE COVER TO REINFORCEMENT FOR CONCRETE ELEMENTS SHALL BE:

	CLEAR COVER (mm)			
LOCATION	TOP	BOTTOM	SIDES INTERNAL	SIDES INTERNAL
SLABS & PAVEMENTS	40	50	--	--
FOOTING STRIPS	65	65	--	--
STAIRS	40	40	--	--

- 5. SCHEDULE OF CONCRETE PROPERTIES TO BE USED FOR THE PARTICULAR SECTION OF WORK SHALL BE AS FOLLOWS UNLESS OTHERWISE INSTRUCTED: (MIX DESIGNS SHALL BE SUBMITTED BY THE SUBCONTRACTOR TO THE ENGINEER FOR INSPECTION 28 DAYS PRIOR TO POUR).

LOCATION	GRADE (MPa)	MAX. AGGREGATE (mm)	SLUMP (mm)
SLAB/BARRIER KERB	N32	20	80±15
RETAINING WALLS	N40	20	80±15
VEHICULAR PAVEMENTS	N40 TYPE 1	20	80±15

TYPE 1 CONCRETE SHALL HAVE THE PROPERTIES OF NORMAL N40 CONCRETE WITH A FLEXURAL STRENGTH OF F't=5.12MPa

- 6. ALL REINFORCEMENT IN SLABS AND BEAMS SHALL BE SUPPORTED ON CHAIRS TO GIVE THE REQUIRED COVER. SPACING OF REINFORCEMENT CHAIRS SHALL NOT EXCEED 800mm IN ANY DIRECTION.
- 7. MINIMUM LAPs FOR REINFORCEMENT SHALL BE AS FOLLOWS, UNLESS NOTED OTHERWISE:

FABRIC2 CROSS WIRES + 25mm.

N12:650mm.

N24:1300mm

N16:750mm.

N28:1600mm.

N20:1000mm.

N32:1900mm.

COG AND HOOK PIN DIAMETERS AND OVERALL DIMENSIONS SHALL BE AS PER THE REQUIREMENTS OF AS 3600 UNLESS NOTED OTHERWISE.

- 8. ALL BAR CRANKS SHALL BE NO GREATER THAN 1 IN 6, UNLESS NOTED OTHERWISE. REINFORCEMENT GRADES SHALL BE AS FOLLOWS:

BARS:GRADE 500N TO AS/NZS 4671.

FABRIC:HARD DRAWN WIRE FABRIC TO AS/NZS 4671.

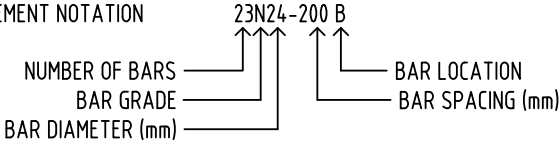
LIGS & TIES:HARD DRAWN WIRE, GRADE 450W, TO AS/NZS 4671.

ANY STEELWORK SOURCED FROM MILLS LOCATED OUTSIDE AUSTRALIA ARE TO BE PROVIDED WITH CERTIFICATES PROVING ABOVE REQUIREMENTS VERIFIED BY NATA REGISTERED ORGANISATIONS.

- 9. FORMS SHALL BE CHAMFERED FOR RE-ENTRANT ANGLES AND FILLETED FOR CORNERS. WHERE THESE WILL BE EXPOSED TO VIEW IN THE COMPLETED PROJECT THE FACE OF THE BEVEL IN EACH CASE SHALL BE 25mm WIDE UNLESS NOTED OTHERWISE, REFER TO ARCHITECT'S DETAILS.
- 10. CONSTRUCTION JOINTS, WHERE NOT SHOWN ON THE DRAWINGS, SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.

CONCRETE NOTES CONTINUED:

- 11. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY AS 3600 BUT NOT LESS THAN THREE DIAMETERS HORIZONTALLY FOR HORIZONTAL CONDUITS, ETC. IN SLABS, WALLS AND FOOTINGS AND NOT LESS THAN ONE DIAMETER FOR ALL OTHER CONDUITS, ETC.
- 12. TYPICAL REINFORCEMENT NOTATION



- 13. TYPICAL REINFORCEMENT ABBREVIATIONS:

B DENOTES BARS IN BOTTOM FACE

T DENOTES BARS IN TOP FACE

ALT DENOTES BARS ALTERNATING

STAG DENOTES BARS STAGGERED

EF DENOTES BARS IN EACH FACE

TL DENOTES BARS IN LOWER LAYER OF TOP REQ.

BU DENOTES BARS UPPER LAYER OF BOTTOM REQ.

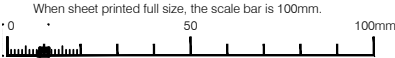
NF DENOTES BARS IN NEAR FACE

FF DENOTES BARS IN FAR FACE
- 14. ALL PRIMARY REINFORCEMENT SHALL BE PLACED OUTERMOST.
- 15. REQUIRED SURFACE FINISH AND CLASS OF FORMWORK FOR CONCRETE SHALL CONFORM WITH THE FOLLOWING, UNLESS NOTED ON THE ARCHITECTURAL DRAWINGS OR AS OTHERWISE INSTRUCTED BY THE SUPERINTENDENT OR CALLED UP IN THE ARCH OR L'ARCH DOCUMENTATION.

LOCATION	SURFACE	TYPE OF FINISH	FORMWORK CLASS
SLABS AND STAIRS	TOP FACE	WOOD FLOAT FOR TILED AREAS. BROOM FINISH FOR EXPOSED AREAS	--
KERB AND CHANNEL	--	STEEL FLOAT FINISH	--
RETAINING WALLS, PITS & END WALLS	TOP FACE	STEEL FLOAT	--
	EXPOSED FACE		3
	SOIL FACE		3
PAVEMENTS	TOP FACE	BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL. HEAVY BROOM FINISH TO VEHICULAR PAVEMENTS	

- 16. THE SUPERINTENDENT SHALL BE GIVEN A MINIMUM OF 24 HOURS PRIOR NOTICE FOR ALL REQUIRED INSPECTIONS, INCLUDING AT THE PLACEMENT OF THE POLYTHENE MEMBRANE AND PRIOR TO THE PLACEMENT OF CONCRETE.
- 17. ALL CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS AFTER POURING BY COVERING WITH A PVC MEMBRANE WEIGHED DOWN TO PREVENT AIR FLOW BENEATH IT.
- 18. WHENEVER THE CURRENT AMBIENT TEMPERATURE OR THE TEMPERATURE FORECAST FOR THE DAY OF POUR EXCEEDS 32° THE BUILDER SHALL NOTIFY SUPERINTENDENT OF HIS INTENTION TO POUR CONCRETE. SUPERINTENDENT, AT THEIR DISCRETION MAY OR MAY NOT PERMIT CONCRETE POURING.
- 19. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF ANY APPLIED FINISHES IE. EXPOSED AGGREGATE.

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When sheet printed full size, the scale bar is 100mm.

CONSTRUCTION  
ISSUE

29.01.24

CONSTRUCTION ISSUE

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SK

11.12.23

PRELIMINARY ISSUE

MM

MM

SK

REV

DATE

DESCRIPTION

DRAFT

ENG

CHKD

WGA

YARRA TRAMS DRIVER AMENITIES

ST KILDA

PARK STREET ST KILDA VIC 3182

CIVIL DRAWING LIST & STANDARD NOTES - SHEET 2

A3

Scale

DRAWING NUMBER

Design

Drawn

WGA231689-DR-CV-4002

Sheet No.

Rev

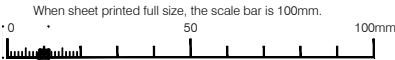
CIVIL NOTES:

- ALL LEVELS ARE TO AHD – REFER CRA SURVEY PTY LTD. REF No: 7695FL1, DATED:19/10/2023 VERSION :1
- THE CONTRACTOR MUST CHECK THE LOCATION AND DEPTH OF ALL EXISTING SERVICES & DRAINS ALONG THE PROPOSED DRAINAGE LINES & IN THE VICINITY OF THE PROPOSED WORKS PRIOR TO THE COMMENCEMENT OF WORKS. THE CONTRACTOR IS TO VERIFY THE OUTFALL DRAINAGE INVERT LEVEL PRIOR TO THE COMMENCEMENT OF ANY WORKS ON SITE.
- WHERE PIPE TRENCHES PASS UNDER PAVEMENT AREAS THEN BACKFILLING SHALL BE CLASS 3 CRUSHED ROCK COMPACTED IN 150mm LAYERS TO 98% MODIFIED COMPACTIVE EFFORT.
- ALL PITS GREATER THAN 1.0 METRE DEEP TO BE PROVIDED WITH STEP IRONS. PITS & SUMPS GREATER THAN 1.5M DEEP SHALL BE LABELLED 'CONFINED SPACE, ENTRY BY PERMIT ONLY'.
- AT THE COMPLETION OF THE WORKS ALL DISTURBED SURFACE AREAS MUST BE REINSTATED TO THE CONDITION THEY WERE IN AT THE START OF THE WORKS UNLESS NOTED OTHERWISE.
- ALL PITS, PIPE BACKFILLS & BEDDING, ETC. SHALL BE IN ACCORDANCE WITH THE DETAILS AND SPECIFICATION. DRAINAGE LINES ARE NOT TO BE BACKFILLED UNTIL INSPECTED BY EITHER THE BUILDING SURVEYOR OR THE RELEVANT LOCAL AUTHORITY.
- UNLESS NOTED ON THE DRAWING ALL STORM WATER DRAINS SHALL BE uPVC SEWER GRADE SN8(MIN.) RRJ FOR PIPES UP TO 225 DIA. FOR PIPES EQUAL TO OR GREATER THAN 225 DIA. EITHER 'STORMPRO' (UNLESS UNDER TRAFFICABLE SURFACE) OR CLASS 2 REINFORCED CONCRETE RRJ PIPE CAN BE ADOPTED. FOR AUTHORITY DRAINS OR WHERE DRAINS ARE INSTALLED OUTSIDE THE PROPERTY ADOPT CLASS 2 REINFORCED CONCRETE RRJ PIPES UNO. ANY PIPE SIZES NOT NOTED SHALL BE 150 DIA (MIN.). uPVC, SN8(MIN.) MINIMUM GRADE 1:100. STORMWATER DRAINS TO BE INSTALLED IN ACCORDANCE WITH AS 3500.3, AS 3725 & AS 2032. PROVIDE INSPECTION OPENINGS AT ALL JUNCTIONS OF PIPES.
- ALL SUBSURFACE DRAINS SHALL BE 100 DIA SLOTTED RIGID uPVC DRAINS CLASS 400 SURROUNDED BY COARSE SAND WITH BIDIM A24 GEOTEXTILE WRAP.
- ALL WORK WITHIN ROAD RESERVE OR ON PUBLIC PROPERTY SHALL BE CONSTRUCTED TO THE LOCAL COUNCIL STANDARDS, CONDITIONS AND REQUIREMENTS. WHERE THE REQUIREMENTS OF THE AUTHORITY ARE DIFFERENT TO THE DRAWINGS, THE REQUIREMENT OF THE AUTHORITY SHALL BE APPLICABLE.
- THE CONTRACTOR MUST NOTIFY THE LOCAL AUTHORITY FIVE CLEAR DAYS PRIOR TO THE COMMENCEMENT OF ANY WORKS IN THE ROAD RESERVE OR ON COUNCIL PROPERTY.
- ALL CARE IS TO BE TAKEN WHEN EXCAVATING AROUND EXISTING TREES THAT ARE TO REMAIN. WHERE A PIPE DRAIN PASSES UNDER A TREE OR WITHIN THE ROOT ZONE THEN A BORING METHOD, HYDRO EXCAVATION OR HAND EXCAVATION SHALL BE USED TO AVOID DAMAGE TO THE TREE ROOTS. THE PROPOSED METHOD IS TO COMPLY WITH AS4970.
- THE CONTRACTOR IS TO VERIFY ALL DIMENSIONS & LEVELS ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE. ENGINEERING DRAWINGS MUST NOT BE USED FOR SET OUT. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SETOUT.
- COVER LEVELS SHOWN ARE APPROXIMATE ONLY. THE EXACT FINISHED COVER LEVELS ARE TO BE CO-ORDINATED WITH THE SURROUNDING FINISHED LEVELS.
- FINISHED LEVELS ADJACENT TO KERB LINES & EDGES OF PAVEMENTS ARE TO BE LOCALLY CUT OR FILLED TO PROVIDE AN EVEN TRANSITION TO THE BACK OF KERB LEVEL.
- EROSION & SEDIMENT CONTROL IS TO BE PROVIDED FOR THE WHOLE OF THE WORKS AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTION OVER THE SITE.
- ALL EXISTING DRAINS TO BE THOROUGHLY CLEANED & JETTED OUT THROUGH TO THE LEGAL POINT OF DISCHARGE.
- ALL LINE MARKING AND SIGNAGE TO BE INSTALLED IN ACCORDANCE WITH AS 1742-1 AND AS 1742-2, UNLESS SPECIFICALLY SHOWN OTHERWISE. LINE MARKING IS TO BE INSTALLED USING EXTRUDED LONG LIFE THERMOPLASTIC PAINT. TEMPORARY LINE MARKING USING ORDINARY PAINT IS TO BE APPLIED WHEN WEARING COURSE ASPHALT IS NOT APPLIED FOR A PERIOD OF TIME E.G. AT PRACTICAL COMPLETION.
- CONSTRUCTION SEQUENCE AND TRAFFIC MANAGEMENT PLANS TO BE PROVIDED BY CONTRACTOR AND APPROVED BY THE LOCAL COUNCIL PRIOR TO COMMENCEMENT OF WORKS ON SITE.
- CONTRACTOR TO PROVIDE ALL NECESSARY TRAFFIC CONTROL AND SAFETY DEVICES AS REQUIRED TO COMPLY WITH THE REQUIREMENTS OF THE ROAD TRAFFIC REGULATIONS ACT.
- CONTRACTOR IS TO USE ALL DUE CARE AND ATTENTION IN EXERCISING THESE WORKS.
- ALL DIMENSIONS AND SETOUT POINTS SHALL BE CONFIRMED AND VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO THE SUPERINTENDENT. CIVIL DRAWINGS ARE NOT TO BE USED FOR SETOUT PURPOSE.
- TRANSITION DIFFERENT KERB TYPES OVER 1.0m NOMINALLY IF IT CANNOT BE ACHIEVED AT PRAM CROSSING OR DRIVEWAY CROSSOVER.
- CONTRACTOR TO ADJUST ALL EXISTING COVER LEVELS TO MATCH NEW PAVEMENT LEVELS AS PER SERVICE AUTHORITY REQUIREMENTS.
- CONTRACTOR TO SUPPLY AND ERECT ALL STREET SIGNAGE AS REQUIRED.
- CONTRACTOR TO OBTAIN ALL NECESSARY PERMITS AS REQUIRED PRIOR TO COMMENCEMENT ON SITE.
- SAW CUT EXISTING PAVEMENTS AT LIMIT OF WORKS TO ENSURE NEAT MATCHING TO NEW WORKS. FOR CONCRETE PAVEMENT & FOOTPATHS THE CONTRACTOR IS TO ALLOW TO DOWEL ANY NEW PAVING TO THE EXISTING.
- WORK SITE TRAFFIC MANAGEMENT PRACTICES MUST BE IN ACCORDANCE WITH AS1742-1996 "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES – PART 3: TRAFFIC CONTROL DEVICES FOR WORKS ON ROADS".

CIVIL NOTES CONTINUED:

- ALL TRENCHING 15M IN DEPTH OR GREATER MUST COMPLY WITH THE MINES AND TRENCHES REGULATIONS.
- TRENCHES AND EXCAVATIONS WITHIN 2m OF BUILDINGS AND PAVEMENTS SHALL NOT BE LEFT OPEN. OPEN TRENCHES AND EXCAVATIONS AND ALL SERVICES TRENCHES WITHIN 2m OF A STRUCTURE OR PAVEMENT ARE TO BE BACK FILLED IMMEDIATELY WITH IMPERVIOUS CLAY MATERIAL TO PREVENT MOISTURE MIGRATION ADJACENT TO BUILDINGS AND PAVEMENTS. PROVISIONS ARE TO BE MADE BY THE CONTRACTOR TO PREVENT WATER INGRESS INTO OPEN EXCAVATIONS.
- OUTFALL DRAINAGE CONNECTION INVERT LEVEL ARE TO BE VERIFIED & CONFIRMED ON SITE PRIOR TO COMMENCEMENT OF ANY WORKS ON SITE. ANY DISCREPANCIES TO BE NOTIFIED TO THE SUPERVISER/SUPERITENDANT.
- ALL SURPLUS EXCAVATED MATERIAL IS TO BE REMOVED FROM SITE UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- PAVEMENT BASECOURSE MATERIALS ARE TO COMPLY WITH VICROADS SPECIFICATIONS, SECTION 812 AND COMPACTED IN 150mm MAXIMUM THICK LAYERS TO 98% MODIFIED MAXIMUM DRY DENSITY IN ACCORDANCE WITH AS 1289.5.2.1. MOISTURE CONTENT TO BE WITHIN ± 2% OF OPTIMUM.
- WHERE AGI (AG) DRAINS PASS UNDER SLABS OR PAVEMENTS, UNSLOTTED SECTIONS OF PIPE ARE TO BE USED.
- GRATES AND COVERS SHALL CONFORM WITH AS 3996-1992 AND AS 1428.1 FOR ACCESS REQUIREMENTS.
- ALL DRAINAGE TO BE SETOUT A MINIMUM OF 1000mm FROM ADJACENT BUILDINGS UNLESS NOTED OTHERWISE.
- CONTRACTOR IS RESPONSIBLE FOR ANY FILL REQUIRED TO MAKE UP LEVELS BETWEEN APPROVED SUBGRADE AND SUBBASE.
- UNLESS NOTED OTHERWISE ALL GRATED PIT COVERS TO BE HEEL SAFE SLIP RESISTANT (MAX. 13mm GAP AS PER AS 1428.1 CLAUSE 7.5) IN PEDESTRIAN AREAS AND BIKE SAFE IN ALL OTHER AREAS.
- ALL ASPHALT WORKS ARE TO BE UNDERTAKEN IN ACCORDANCE WITH AS2150.
- ROCK IS DEFINED AS MONOLITHIC MATERIAL WITH A VOLUME GREATER THAN 0.5m<sup>3</sup> WHICH CANNOT BE REMOVED BY A 20 TONNE EXCAVATOR. THE CONTRACTOR IS TO PROVIDE A RATE IN THEIR TENDER FOR THE REMOVAL OF ROCK PER CUBIC METRE. ALL OTHER MATERIAL IS DEEMED RIPPABLE AND NO VARIATION WILL BE PAID FOR RIPPABLE ROCK.
- IF ANY GRATES ARE INSTALLED WITHIN OR ADJACENT TO THE ACCESSIBLE PATHS OR EXTERNAL COURTYARDS OR PEDESTRIAN AREAS, SLOTTED OPENING MUST NOT EXCEED 8mm WIDE, OR 13mm IN WIDTH IF ORIENTATED SO THAT THE SLOTS ARE PERPENDICULAR TO THE DIRECTION OF TRAVEL. FINISH TO BE SLIP RESISTANT.
- WHERE NEW PAVEMENTS ARE LOCATED OVER EXISTING SERVICES, CONTRACTOR TO ALLOW TO EXCAVATE TRENCH BACKFILL & REPLACE WITH CLASS 3 CRUSHED ROCK COMPACTED AS SPECIFIED.
- FOR ANY REQUIRED ACCESSIBLE PATHS OF TRAVEL THE SELECTED GROUND FLOOR PAVEMENT MATERIALS WILL NEED TO BE AN ACCESSIBLE SLIP-RESISTANT SURFACE WITH A TEXTURE THAT ALLOWS IT TO BE TRAVERSABLE BY A WHEELCHAIR AND PEOPLE WITH AN AMBULANT OR SENSORY DISABILITY (AS1428.1, CLAUSE 7.1).
- ANY PAVEMENT ADJACENT PROPOSED WORKS THAT ARE DISTURBED/DAMAGED AS A RESULT OF THE WORKS IS TO BE SAWCUT TO PROVIDE A CLEAN EDGE WITH EXISTING PAVEMENT AND RECONSTRUCTED TO MATCH EXISTING PAVEMENT PROFILE
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC MANAGEMENT AND PERMITS REQUIRED TO EXECUTE THE WORKS INCLUDING CIVIL WORKS AS SHOWN ON THE PLANS AS WELL ALL SERVICE CONNECTIONS.

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CONSTRUCTION  
ISSUE

Ø	29.01.24	CONSTRUCTION ISSUE	MM	MM	SK
	11.12.23	PRELIMINARY ISSUE	MM	MM	SK
REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
<div>WGA</div>					
YARRA TRAMS DRIVER AMENITIES					
ST KILDA					
PARK STREET ST KILDA VIC 3182					
CIVIL DRAWING LIST & STANDARD NOTES - SHEET 3					
A3	Scale	DRAWING NUMBER			
Design	Drawn	Job Number	Sheet No.	Rev.	
M.M	M.M	WGA231689-DR-CV-4003		Ø	



EARTHWORKS NOTES:

- 1. NO GEOTECHNICAL REPORT WAS PROVIDED, CONTRACTOR TO INVESTIGATE ONSITE FOR EARTHWORKS PRIOR TO COMMENCEMENT OF EARTHWORKS.
- 2. ALL EARTHWORKS AND GROUND PREPARATION IS TO BE CARRIED OUT IN ACCORDANCE WITH AS 3798.
- 3. IT IS RECOMMENDED THAT THE EARTHWORKS IS UNDERTAKEN DURING THE DRIER MONTHS.
- 4. ALL TEMPORARY BATTERS ARE TO BE CUT AT A SLOPE AS INDICATED ON THE DRAWINGS OR IN THE GEOTECHNICAL REPORT FOR THE VARIOUS MATERIALS. SPECIFIC GEOTECHNICAL ADVICE IS TO BE SOUGHT FOR BATTERS IN EXCESS OF 2m IN HEIGHT.
- 5. EXCAVATED MATERIAL IS NOT TO BE USED AS STRUCTURAL ENGINEERED FILL UNDER BUILDINGS OR PAVEMENTS.
  - (i) ANY IMPORTED FILL MATERIAL IS TO BE APPROVED BY THE GEOTECHNICAL ENGINEER AND IS TO BE MOISTURE CONDITIONED AND PLACED ENTIRELY IN ACCORDANCE WITH THE REQUIREMENTS OF THE GEOTECHNICAL ENGINEER UNDER HIS ENTIRE SUPERVISION. ANY REQUIRED FILL IS TO BE IMPORTED GRANULAR NON-ORGANIC, NON-REACTIVE FILL FREE OF ANY CONTAMINATION. SUITABLE MATERIAL TYPES INCLUDE NON-DISCRIPT CRUSHED ROCK, RIPPED MUDSTONE, SILTSTONE, VICROADS TYPE A FILL OR EQUIVALENT AND IS TO CONFORM WITH THE REQUIREMENTS AS NOMINATED BELOW.
  - (ii) THE PLACEMENT MOISTURE CONTENT NOMINATED BELOW COMPLIES WITH THE GEOTECHNICAL CONSULTANTS REQUIREMENTS, AND ALLOWS FILLING TO BE PLACED AND PROOF ROLLED IN ACCORDANCE WITH THE SPECIFICATION. WHERE NECESSARY THE CONTRACTOR MUST MOISTURE CONDITION ANY FILL MATERIAL TO MEET THESE REQUIREMENTS. THE SITE SHALL BE RE-TESTED AND RE-CLASSIFIED BY THE GEOTECHNICAL ENGINEER ONCE THE FILLING HAS BEEN COMPLETED.
  - (iii) ALL COSTS ASSOCIATED WITH THE APPROVAL, SUPERVISION AND TESTING REQUIREMENTS OF THE REQUIRED GEOTECHNICAL ENGINEER ARE TO BE BOURNE BY THE CONTRACTOR.
- 6. COMPACT FILL AREAS AND SUBGRADE TO NOT LESS THAN:

LOCATION	COHESIVE SOILS STANDARD DRY DENSITY (AS 1289 5.4.1)	COHESIONLESS SOILS DENSITY INDEX (AS 1289 5.6.1)	MOISTURE (OMC)
UNDER ROADS, PAVEMENTS, CARPARKS	98%	75%	±2%
LANDSCAPE AREAS	95%	70%	±2%

- 7. THE MOISTURE CONTENT OF THE TOP 200mm OF THE SUBGRADE SHOULD BE ADJUSTED TO WITHIN ±2% OF THE STANDARD OPTIMUM MOISTURE CONTENT BY EITHER ADDING MOISTURE OR WORKING THE SUBGRADE ACCORDINGLY. THE MOISTURE CONTENT LEVEL SHALL BE MAINTAINED UNTIL THE PAVEMENTS HAVE BEEN CONSTRUCTED. IF SUBGRADE IS UNWORKABLY WET, CONSIDERATION TO LIME OR CEMENT STABILISATION MAY BE MADE AND THE GEOTECHNICAL ENGINEERS ADVICE SHOULD BE SOUGHT ON THIS MATTER.
- 8. WHERE ENGINEERED FILL IS TO SUPPORT BUILDINGS OR PAVEMENTS, LEVEL 1 SUPERVISION AND TESTING PROCEDURES MUST BE ADOPTED IN ACCORDANCE WITH AS 3798-1996 "GUIDELINES FOR EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENT", WHICH REQUIRE A FULL TIME PRESENCE ON-SITE DURING EARTHWORKS BY A GEOTECHNICAL PRACTITIONER TO ENSURE COMPLIANCE IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE GEOTECHNICAL ENGINEERS REPORT.
- 9. ON COMPLETION OF THE SUBGRADE PREPARATION THE SUBGRADE SHOULD BE IMMEDIATELY CAPPED AND SEALED WITH A MINIMUM 150mm LAYER OF CRUSHED ROCK AND THE STORMWATER CONNECTED. IF NECESSARY A TEMPORARY 'ABOVE GROUND' DRAINAGE SYSTEM SHOULD BE INCORPORATED TO DIRECT ANY SURFACE WATER AWAY FROM ANY PREPARED PAVEMENT SUBGRADE OR SUB-BASE. PONDING OF WATER ON THE PREPARED SUBGRADE OR SUB-BASE SHALL NOT BE PERMITTED.
- 10. BEFORE PLACING ANY FILL, PROOF ROLL EXPOSED SUBGRADE WITH A MINIMUM OF 8 PASSES OF A 6 TONNE ROLLER TO TEST SUBGRADE. PROOF ROLL TO BE WITNESSED BY THE GEOTECH ENGINEER. REMOVE ANY SOFT SPOTS. SOFT SPOTS TO BE REPLACED WITH CLASS 4 FINE CRUSHED ROCK. REPEAT THE PROCESS UNTIL IT PASSES.
- 11. CONTRACTOR SHALL PLACE SAFETY BARRIERS AROUND EXCAVATIONS IN ACCORDANCE WITH RELEVANT SAFETY REGULATIONS.
- 12. ANY BULK EARTHWORKS DRAWINGS ARE NOT TO BE USED FOR DETAILED EXCAVATION.

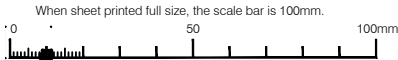
EARTHWORKS NOTES CONTINUED:

- 13. THE CONTRACTOR IS TO MAKE PROVISIONS FOR THE EFFECTIVE DIVERSION AND REMOVAL (INCLUDING SUMPS & PUMPS AS REQUIRED) OF ALL SURFACE WATER FROM THE PREPARED SUB-GRADES AND EXCAVATIONS FROM ANY SOURCE. WATER IS NOT TO BE PERMITTED TO POND IN ANY EXCAVATIONS OR AT THE TOES OF ANY BATTER SLOPES.
- 14. THE CONTRACTOR SHALL APPLY ANY MEASURES NECESSARY TO MINIMISE THE LEVEL OF AIRBORNE DUST AS A CONSEQUENCE OF THE WORKS UNDER CONTRACT.
- 15. THE CONTRACTOR IS RESPONSIBLE MAINTAINING ALL EXTERNAL ROADS AND FOOTPATHS IN A CLEAN STATE AND IN A SAFE MANNER WHILST UNDERTAKING THE WORKS.
- 16. ANY IMPORTED FILLING USED SHALL BE CLEAN AND ESSENTIALLY OF GRANULAR NATURE, NON-ORGANIC AND HAVE A PLASTICITY INDEX OF LESS THAN 12%. FILL MATERIAL SHALL HAVE A NOMINAL PARTICLE SIZE OF 40mm OR LESS AND AS A GUIDE TO SELECTING THE APPROPRIATE MATERIAL THE PI x %PASSING A 0.425mm SIEVE (AS SIEVE) SHOULD BE LESS THAN OR EQUAL TO 600. THE GEOTECHNICAL ENGINEER IS TO APPROVE ANY IMPORTED FILL.
- 17. CONTRACTOR IS TO ALLOW TO REMOVE SURPLUS EXCAVATED MATERIAL OFF SITE UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT.
- 18. MINIMUM CBR REQUIRED FOR PAVEMENT SUBGRADE TO BE 3.0% BEFORE COMMENCING ANY SUBSEQUENT WORKS. TEST RESULTS TO BE PROVIDED TO SUPERINTENDENT AND APPROVAL GRANTED PRIOR TO FURTHER WORKS BEING UNDERTAKEN.
- 19. THE CONTRACTOR IS TO ALLOW TO STRIP AS A MINIMUM THE LAYER OF ANY ORGANICS OR FILL OR SILTS UNDER ANY BUILDINGS OR PROPOSED PAVEMENTS & SLABS. REFER GEOTECHNICAL REPORT FOR DETAILS.
- 20. TESTING OF SUBGRADE, PREPARED SUBGRADE & BASE LAYERS OF CRUSHED ROCK TO BE UNDERTAKEN & CARRIED OUT IN ACCORDANCE WITH AS 3798. DOCUMENTARY EVIDENCE OF SAME IS TO BE PROVIDED TO THE SUPERINTENDENT.
- 21. THE CONTRACTOR IS TO NOTIFY ALL SERVICE AUTHORITIES & ARRANGE FOR DISCONTINUANCE OF SERVICES OR SUPPLY AS APPLICABLE & DO ALL CUTTING, DISCONNECTION OR SEALING OFF OF SERVICES & DRAINS AS REQUIRED. SERVICES OR SUPPLY LINES THAT ARE TO BE RETAINED SHALL REMAIN & GIVEN ALL NECESSARY PROTECTION.
- 22. THE CONTRACTOR SHALL DO ALL BRACING NECESSARY TO RETAIN EARTH BANKS, ROADS, PAVEMENTS, WALLS & FOOTINGS OF ADJOINING PROPERTIES & PREVENT CAVING & DISPLACEMENT OF ADJACENT SOIL OR STRUCTURES & PROVIDE ALL NECESSARY COMPONENTS OF SUCH BRACING.
- 23. THE GEOTECHNICAL ENGINEER SHALL BE CONTACTED TO PROVIDE SUPERVISION OF EXCAVATIONS ADJACENT TO EXISTING BUILDINGS/PAVEMENTS TO PREVENT DAMAGE OR INSTABILITY.
- 24. THE BUILDER SHALL BE RESPONSIBLE FOR VIBRATION CONTROLS DURING EXCAVATION & COMPACTION OPERATION.
- 25. BLASTING OF ROCK IS NOT PERMITTED.
- 26. THE GEOTECHNICAL ENGINEERS PAVEMENT AND EARTHWORKS DESIGN AND CONSTRUCTION REQUIREMENTS TAKE PRECEDENCE OVER THESE REQUIREMENTS.
- 27. ALL EARTHWORKS IN CLOSE PROXIMITY TO TREES TO BE UNDERTAKEN WITH THE UTMOST CARE AND IN STRICT ACCORDANCE WITH THE ARBORIST REPORT. PRINCIPAL CONTRACTOR TO REFER TO ARBORIST REPORT FOR ANY TREE PROTECTION MEASURES PRIOR TO COMMENCEMENT

EROSION AND SEDIMENT CONTROL NOTES:

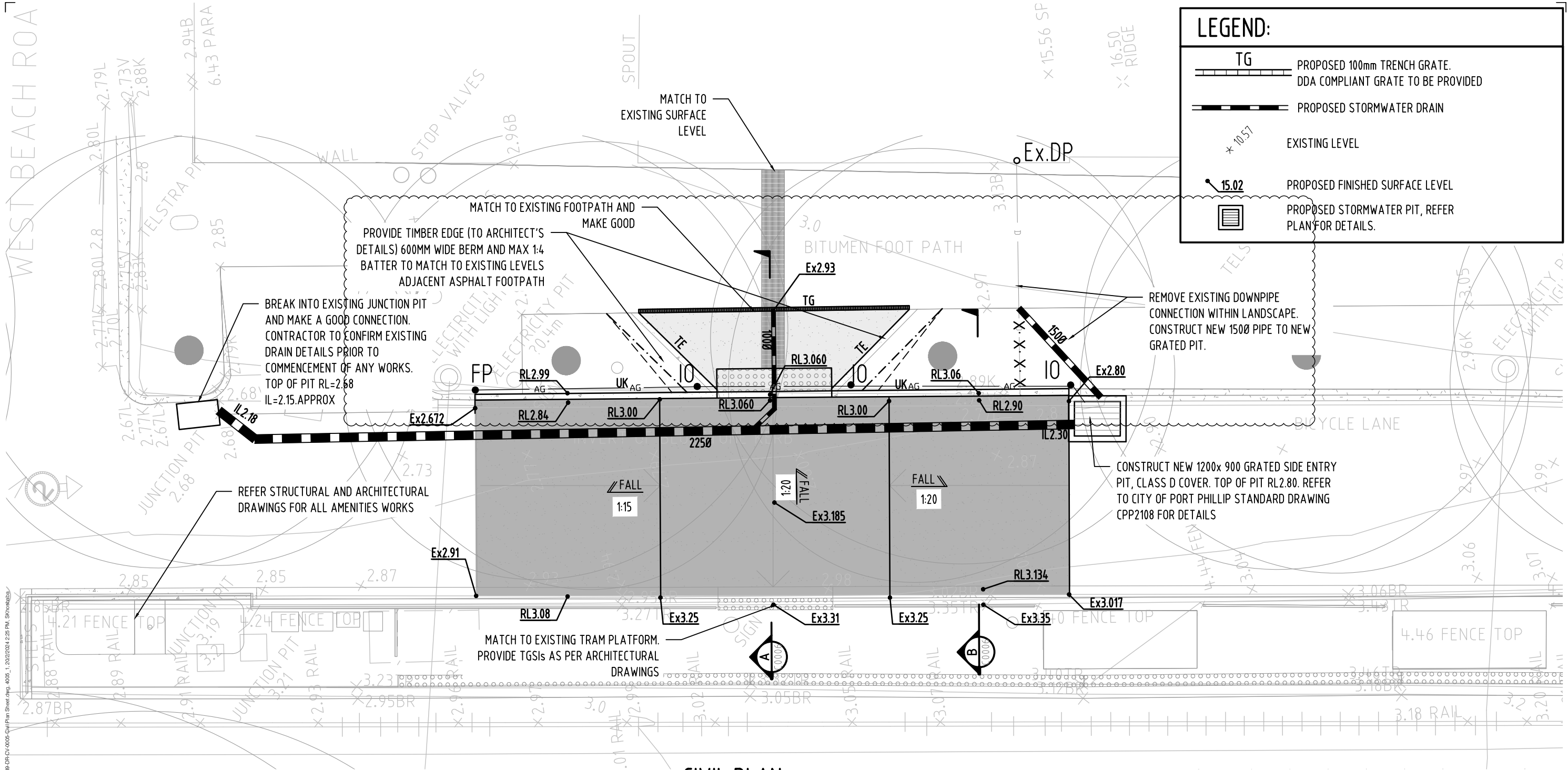
- 1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH
  - (A) LOCAL AUTHORITY REQUIREMENTS,
  - (B) EPA - POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
  - (C) EPA - CONSTRUCTION TECHNIQUES FOR SEDIMENT POLLUTION CONTROL,
  - (D) DEPARTMENT OF CONSERVATION AND LAND MANAGEMENT MANUAL - "URBAN EROSION & SEDIMENT CONTROL".
- 2. EROSION AND SEDIMENT CONTROL IS TO BE PROVIDED FOR THE WHOLE OF THE WORKS. SEDIMENT CONTROL IS TO BE IN ACCORDANCE WITH ANY REQUIREMENTS OF THE LOCAL COUNCIL OR ANY AUTHORITY HAVING JURISDICTION OVER THE WORKS. THE EROSION AND SEDIMENT CONTROL SHALL BE IMPLEMENTED AND ADOPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
- 3. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
- 4. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
- 5. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
- 6. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
- 7. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
- 8. WHERE POSSIBLE CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
- 9. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE NOMINATED CONSTRUCTION ENTRY/EXIT.
- 10. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
- 11. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
- 12. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.
- 13. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED:
  - 13.1 CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF AREAS.
  - 13.2 CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.
  - 13.3 CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEMS.
  - 13.4 CONSTRUCT REQUIRED SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.

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CONSTRUCTION  
ISSUE

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2	29.01.24	CONSTRUCTION ISSUE	MM	MM	SK
3	11.12.23	PRELIMINARY ISSUE	MM	MM	SK
REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD
WGA					
YARRA TRAMS DRIVER AMENITIES					
ST KILDA					
PARK STREET ST KILDA VIC 3182					
CIVIL DRAWING LIST & STANDARD NOTES - SHEET 4					
A3	Scale	DRAWING NUMBER			
Design	Drawn	Job Number	Sheet No.	Rev.	
M.M	M.M	WGA231689-DR-CV-4004	1		



CIVIL PLAN  
SCALE 1:100

**DISCLAIMER:**

PLEASE NOTE THIS WGA DRAWING HAS BEEN PREPARED USING ARCHITECTURAL BACKGROUNDS AND LAYOUTS, SURVEY INFORMATION AND/OR 'AS BUILT' BACKGROUNDS AS SUPPLIED BY OTHERS. WGA CAN NOT ENSURE THAT THE INFORMATION SHOWN IS ACCURATE AND ENTITIES USING THESE DRAWINGS ACCEPT ALL LIABILITY IN THE USE OF THIS INFORMATION. WGA WILL NOT ACCEPT ANY LIABILITY FOR INACCURACIES IN THE INFORMATION PROVIDED. THIS DRAWING MUST NOT BE USED FOR SET OUT PURPOSES UNDER ANY CIRCUMSTANCES.

**WARNING**

**BEWARE OF UNDERGROUND SERVICES**

THE LOCATION OF UNDERGROUND SERVICES ARE APPROXIMATE ONLY AND THEIR EXACT POSITION SHOULD BE PROVEN ON SITE.  
NO GUARANTEE IS GIVEN THAT ALL EXISTING SERVICES ARE SHOWN.

**PAVEMENT LEGEND:**



PEDESTRIAN ASPHALT PAVEMENT,  
REFER TO CITY OF PORT PHILLIP DRAWING CPP1301



ASPHALT PAVEMENT  
WOMBAT CROSSING  
REFER CITY OF PORT PHILLIP STANDARD DRAWING CPP1108 FOR GENERAL REQUIREMENTS AND PAVEMENT MAKEUP

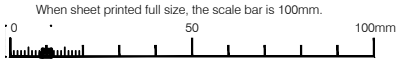


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B	10.01.24	PRELIMINARY ISSUE	MM	MM	SK
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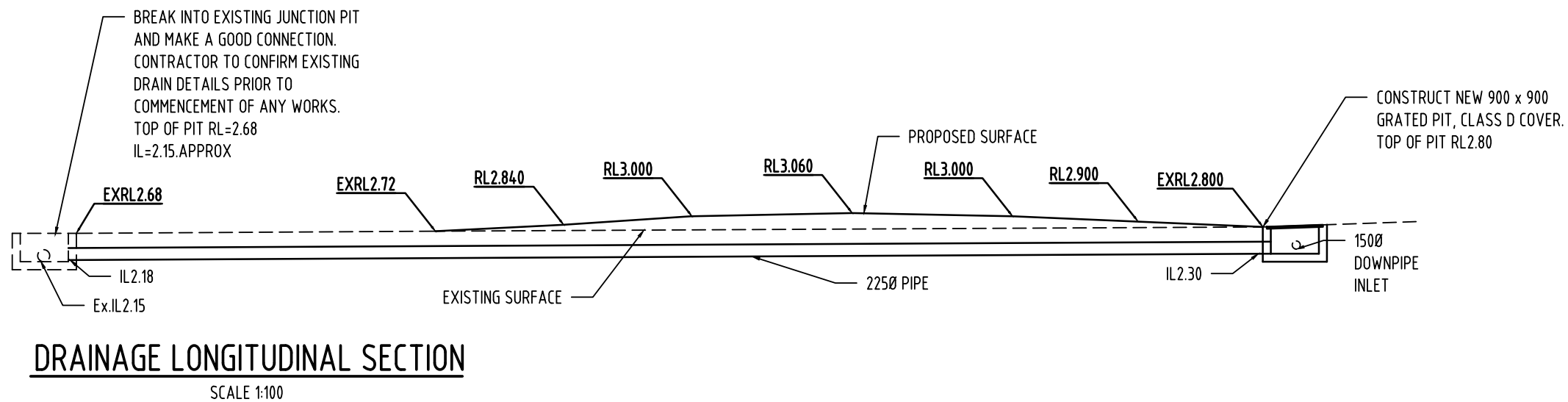
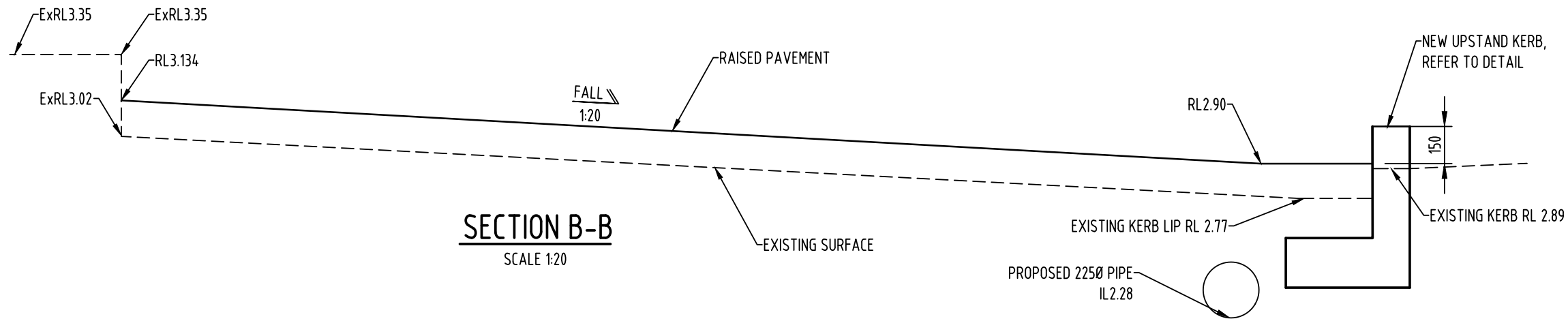
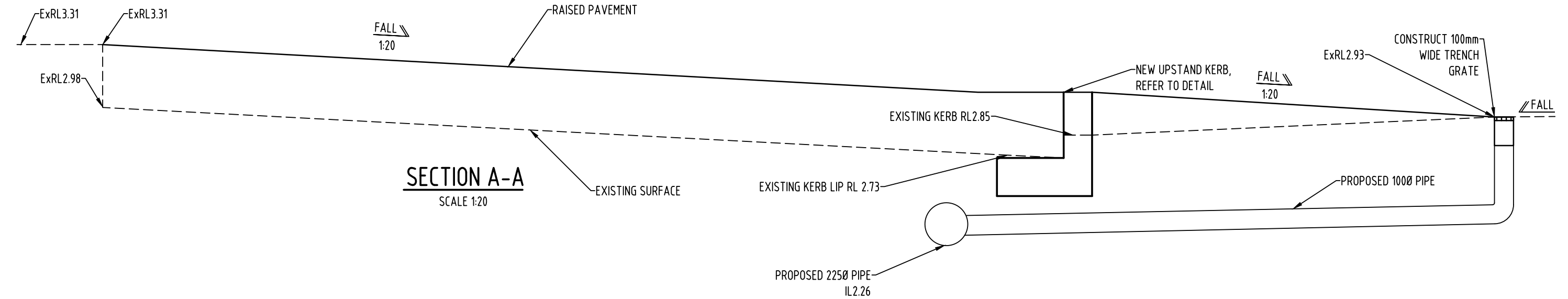
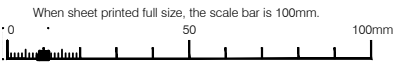
YARRA TRAMS DRIVER AMENITIES  
ST KILDA  
PARK STREET ST KILDA VIC 3182  
CIVIL WORKS

Design	Drawn	Job Number	Sheet No.	Rev.
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YARRA TRAMS DRIVER AMENITIES					
ST KILDA					
PARK STREET ST KILDA VIC 3182					
CIVIL DETAILS - SHEET 1					
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Design M.M	Drawn M.M	WGA231689-DR-CV-4006			

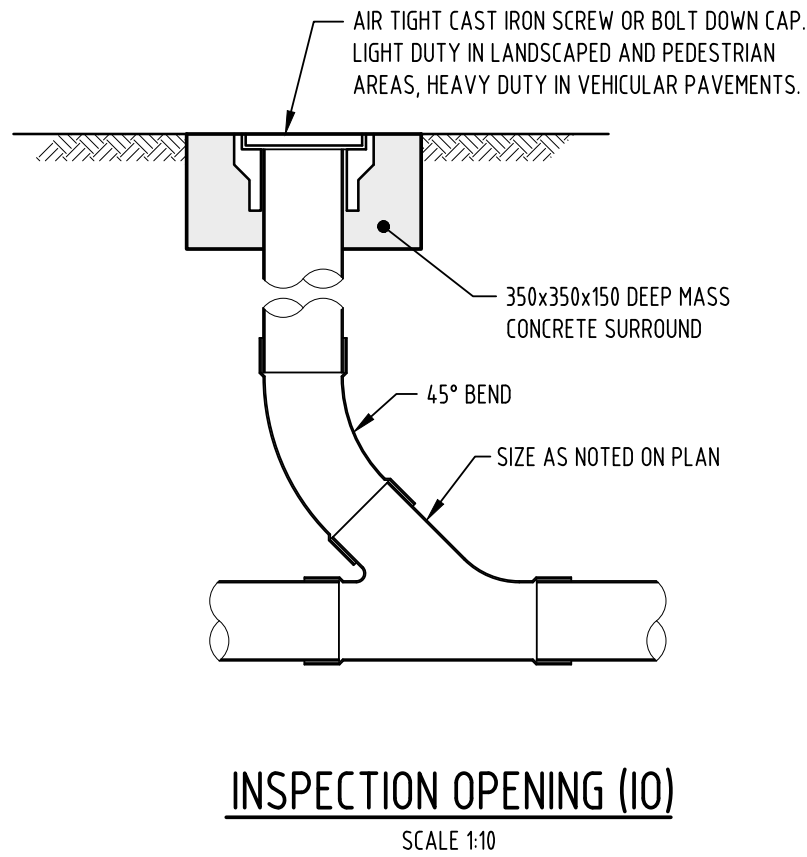
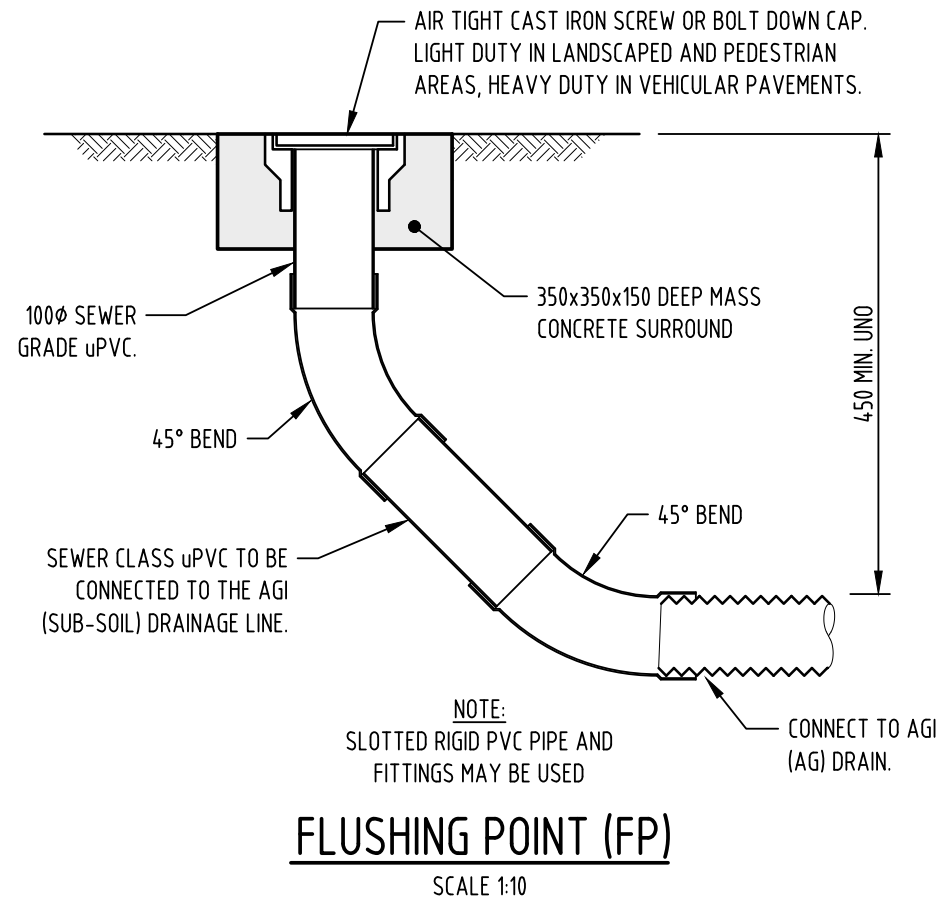
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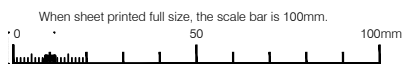









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ST KILDA						
PARK STREET ST KILDA VIC 3182						
CIVIL DETAILS - SHEET 4						
A3		Scale	DRAWING NUMBER		Sheet No.	Rev.
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GENERAL NOTES

- G1

THESE DRAWINGS MUST BE READ IN CONJUNCTION WITH ALL CONSULTANT DRAWINGS, THE SPECIFICATION AND WITH SUCH OTHER WRITTEN INSTRUCTIONS ISSUED DURING THE COURSE OF THE CONTRACT.
- G2

THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE STRUCTURE IN A STABLE CONDITION AND ENSURING NO PART SHALL BE OVER STRESSED DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR AND OBTAIN THE SERVICES OF AN INDEPENDENT ENGINEER, AS NECESSARY, FOR THE PREPARATION AND EXECUTION OF A COMPREHENSIVE SAFE ERECTION PROCEDURE, THAT WILL AT ALL TIMES ENSURE THE STABILITY OF THE WORKS, SAFETY OF ALL PERSONNEL AND PROTECTION OF SURROUNDING PROPERTY INCLUDING THE DESIGN, CERTIFICATION AND PROVISION OF ALL NECESSARY TEMPORARY BRACING AND SUPPORT.
- G3

THESE DRAWINGS SHALL NOT BE SCALED. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE (U.N.O.).
- G4

STRUCTURAL DESIGN CRITERIA SHALL BE IN ACCORDANCE WITH TABLE G1
- G5

THE CONTRACTOR SHALL GIVE THE ENGINEER MINIMUM NOTICE OF 5 WORKING DAYS FOR:  
• SLAB/FOOTING REINFORCEMENT INSPECTIONS PRIOR TO PLACEMENT OF CONCRETE.
- G6

SUBSTITUTIONS SHALL BE APPROVED BY THE SUPERINTENDENT IN WRITING PRIOR TO USE.
- G7

ALL PROPRIETARY PRODUCTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND WHERE REQUIRED STRUCTURAL CERTIFICATION SHALL BE PROVIDED BY THE BUILDER PRIOR TO INSTALLATION.
- G8

ELECTRONIC COPIES OF DRAWINGS SHALL BE USED STRICTLY AT THE RECIPIENT'S RISK. THE ENGINEERING DRAWINGS SHOW STRUCTURAL AND CIVIL INTENT ONLY. DIMENSION AND SETOUT SHALL BE STRICTLY IN ACCORDANCE WITH THE ARCHITECTURAL DOCUMENTS.
- G9

CONSTRUCTION SHALL NOT COMMENCE UNTIL BUILDING APPROVAL HAS BEEN RECEIVED FROM THE RELEVANT AUTHORITIES.
- G10

SITE DRILLED FIXINGS SHALL HAVE A MINIMUM EDGE DISTANCE OF 100mm U.N.O. REFER THIS OFFICE FOR CLARIFICATION IF THE FIXING DISTANCE IS LESS THAN THIS AMOUNT.

DESIGN CRITERIA - (TABLE G1)

- GENERAL:

- IMPORTANCE LEVEL:

= 2

- ANNUAL PROBABILITY OF EXCEEDANCE:

= 1:100 (WIND)

- DESIGN LIFE OF THE STRUCTURAL COMPONENTS IS 40 YEARS (MIN.) IN ACCORDANCE WITH YARRA TRAMS REQUIREMENTS.
- IMPOSED LOADS:

- GENERAL:

= 4 kPa
- WIND LOADS:

- TERRAIN CATEGORY:

= 3

- REGIONAL GUST WIND SPEED (Vr(100)):

= 41 m/s

- DIRECTIONAL MULTIPLIER (Md):

= 1

- TERRAIN/HEIGHT MULTIPLIER (Mz CAT):

= 0.83

- SHIELDING MULTIPLIER (Ms):

= 1

- TOPOGRAPHIC MULTIPLIER (Mt):

= 1

FOUNDATION NOTES

- F1

THE DEPTHS TO UNDERSIDE OF ALL FOOTINGS ARE PROVISIONAL ONLY. AFTER EXCAVATION, APPROVAL SHALL BE OBTAINED FROM WGA FOR THE FOUNDING LEVELS, WHICH MAY BE VARIED IF NECESSARY PRIOR TO FURTHER WORK.
- F2

THE FOUNDATION EXCAVATIONS SHALL BE KEPT FREE OF WATER AT ALL TIMES BY BAILING AND PUMPING IF NECESSARY.
- F3

FOOTINGS SHALL BE FOUNDED ON ORIGINAL UNDISTURBED SOIL HAVING A MINIMUM ALLOWABLE BEARING CAPACITY OF: 50 kPa.

SAFETY IN DESIGN (SID)

- SID1

AS REQUIRED UNDER THE LOCAL HEALTH AND SAFETY ACT WGA HAS UNDERTAKEN A SAFETY IN DESIGN (SID) ASSESSMENT FOR THIS PROJECT. AS DESIGNERS WE ARE TO PROVIDE WRITTEN COMMUNICATION TO OUR CLIENT THAT SPECIFIES THE HAZARDS OF OUR DESIGN, AS WE ARE REASONABLY AWARE, THAT:  
  
A) CREATE A RISK TO THE HEALTH OR SAFETY OF PERSONS WHO ARE INVOLVED IN THE CONSTRUCTION, OPERATION, MAINTENANCE AND DECOMMISSIONING OF THE PROJECT; AND  
  
B) THAT ARE SPECIFIC TO THIS PROJECT.
- SID2

THE SCOPE OF WGA'S SID ASSESSMENT IS LIMITED TO HAZARDS THAT ARE REASONABLY FORESEEABLE AT THE TIME OF DESIGN AND THAT COULD RESULT FROM DESIGN ASPECTS OF THE PROJECT THAT WGA ARE RESPONSIBLE FOR.
- SID3

THIS ASSESSMENT DOES NOT SEEK TO IDENTIFY ALL CONSTRUCTION SITE HAZARDS COMMONLY ENCOUNTERED WITH PROJECTS OF THIS NATURE, FOR WHICH THE IDENTIFICATION AND MANAGEMENT REMAINS THE RESPONSIBILITY OF THE CONTRACTOR.  
OUR ASSESSMENT ASSUMES ANY WORK UNDERTAKEN IN THE PROJECT UNDER THE CONTRACT WILL BE CARRIED OUT BY SUITABLY QUALIFIED PERSONNEL WITH APPROPRIATE EXPERIENCE AND COMPETENCE TO UNDERTAKE SUCH TASKS.
- SID4

ANY ADDITIONAL HAZARDS OR RISKS THAT MAY ARISE DURING THE PROJECT LIFE NOT COVERED IN THESE NOTES SHOULD BE BROUGHT TO THE ATTENTION OF WGA FOR REVIEW AND DIRECTION ON RESOLUTION.
- SID5

WGA'S SID PROCESS INVOLVED THE FOLLOWING STEPS:  
A. HAZARD IDENTIFICATION.  
B. CONSEQUENCE ASSESSMENT.  
C. RISK RATING.  
D. IDENTIFICATION OF CONTROL MEASURES TO MITIGATE RISK.  
E. INCORPORATION OF CONTROL MEASURES INTO DESIGN.  
F. RISK RE-RATING OF HAZARDS.  
REFER TO RISK MATRIX WGA231689-SD-AA-0001\_A FOR THE DETAILED SID ASSESSMENT FOR THIS PROJECT.
- SID6

THE CLIENT MUST PROVIDE A COPY OF THIS ASSESSMENT TO THE PRINCIPAL CONTRACTORS TENDERING ON THIS PROJECT, MAINTENANCE PERSONNEL AND BUILDING USERS.

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WGA

YARRA TRAMS DRIVER AMENITIES

PARK STREET, ST KILDA VIC 3182  
WATTLE PARK, RIVERSDALE RD BURWOOD VIC 3125  
LEEDS STREET, FOOTSCRAY VIC 3011

NOTES - SHEET 1

A3

DOCUMENT NUMBER  
Job Number

Sheet No.

Rev.

Design  
AB

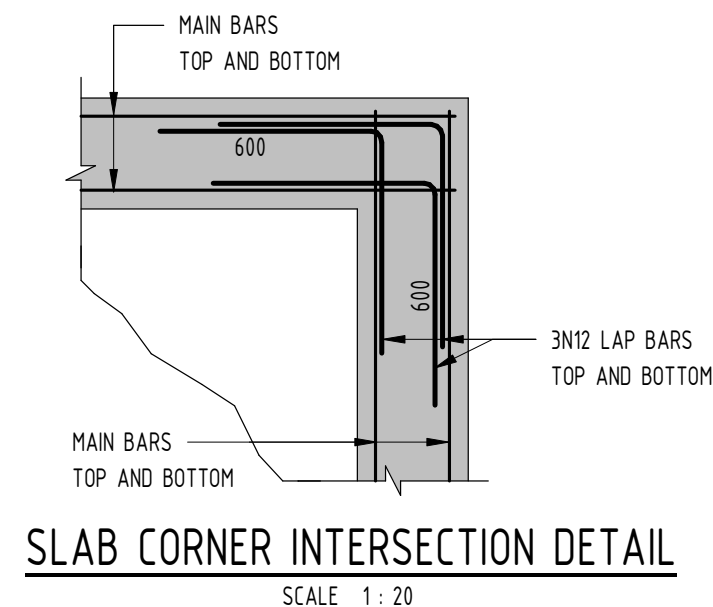
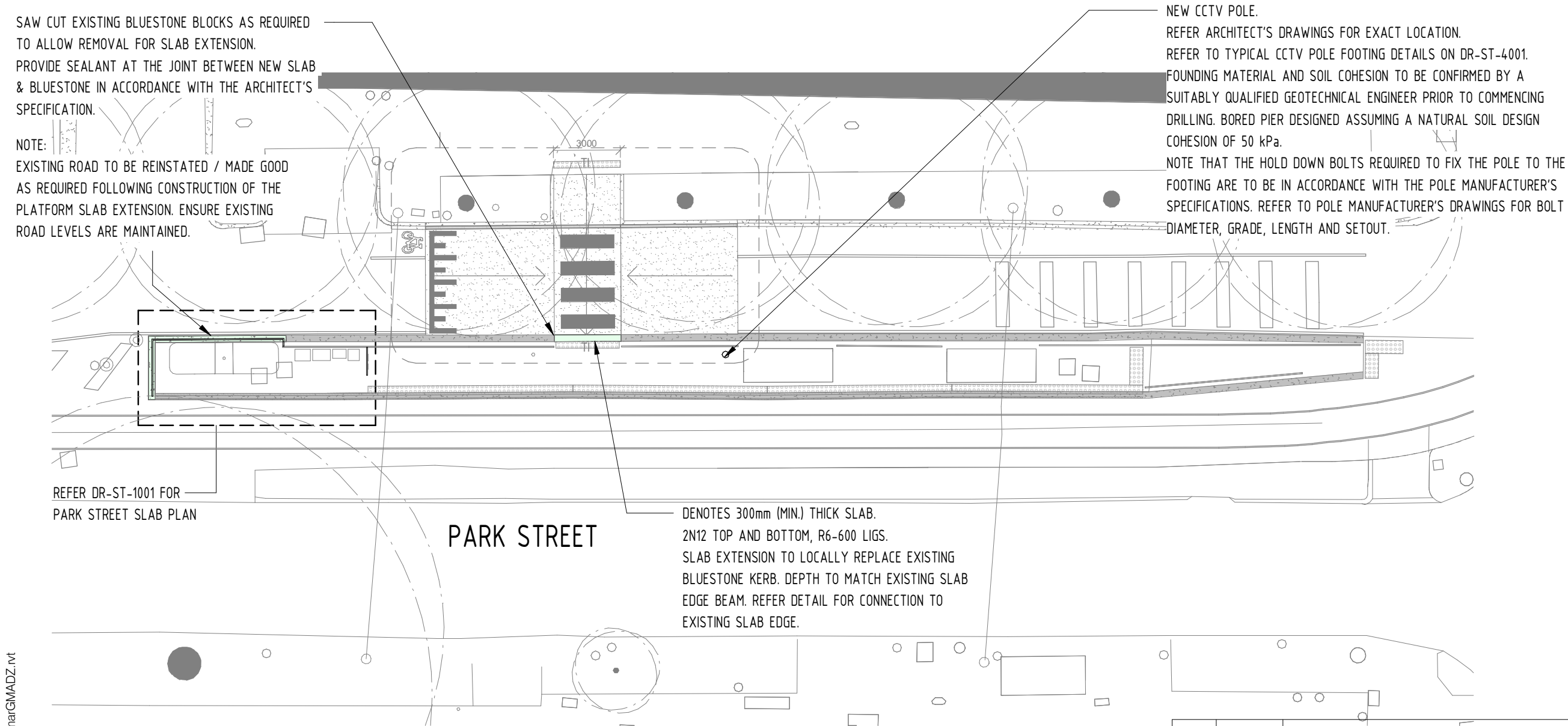
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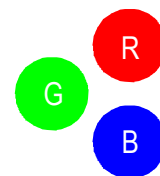
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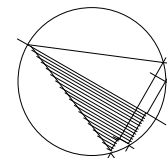


PARK STREET - KEY PLAN  
SCALE 1 : 200



THIS DRAWING INCLUDES  
COLOURED INFORMATION

COPIES OF THIS DRAWING MUST  
BE PRODUCED IN COLOUR



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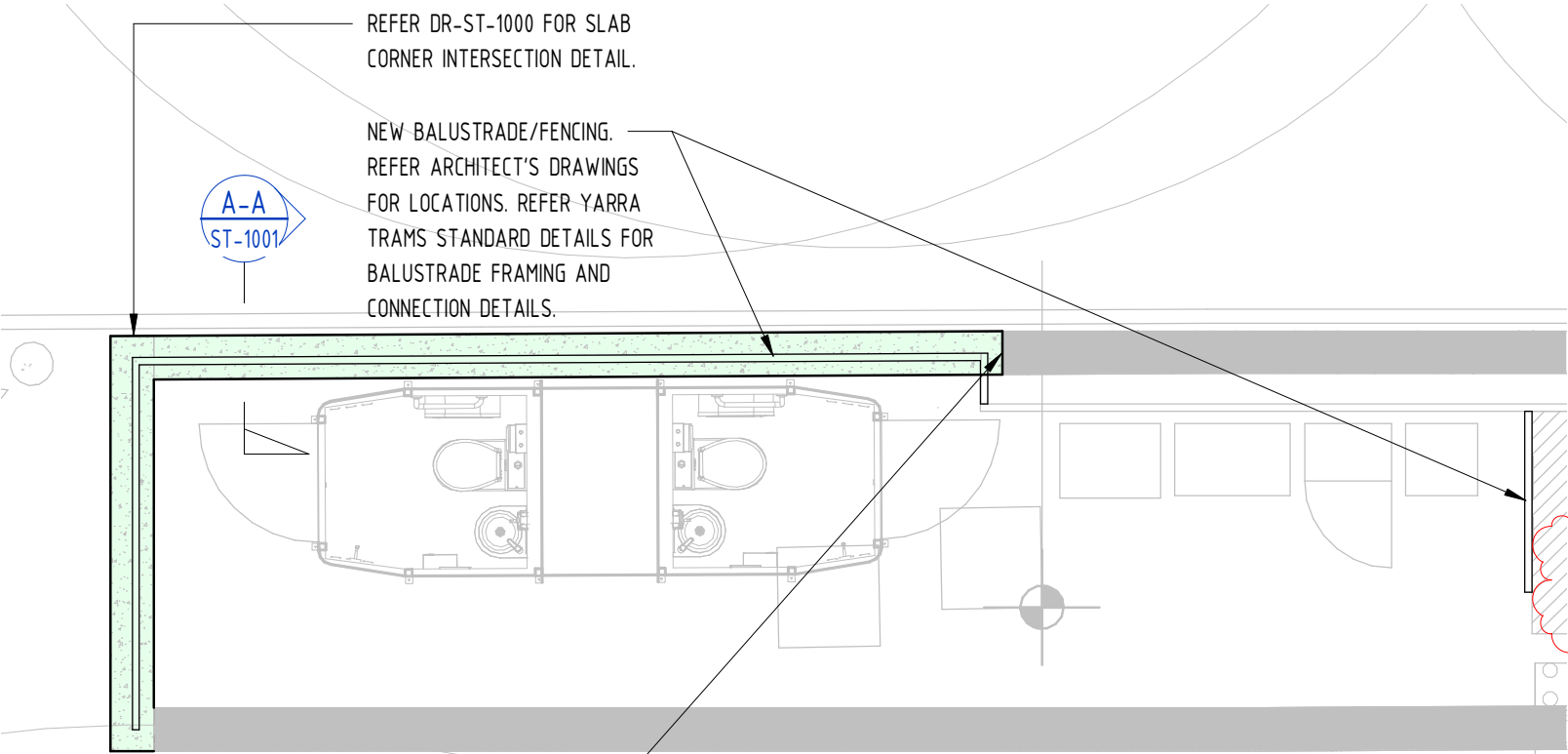
**YARRA TRAMS DRIVER AMENITIES**  
PARK STREET  
ST KILDA VIC 3182  
**PARK STREET - KEY PLAN**

**A3** DOCUMENT NUMBER  
Job Number Sheet No. Rev.

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SAW CUT EXISTING BLUESTONE BLOCKS AS REQUIRED TO ALLOW REMOVAL FOR SLAB EXTENSION (typ). PROVIDE SEALANT AT THE JOINT BETWEEN NEW SLAB & BLUESTONE IN ACCORDANCE WITH THE ARCHITECT'S SPECIFICATION.

### GROUND SLAB PLAN

SCALE 1:50

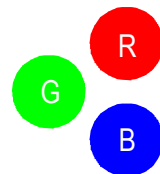
### SLAB LEGEND



DENOTES 300mm (MIN.) THICK SLAB.  
2N12 TOP AND BOTTOM, R6-600 LIGS.  
SLAB EXTENSION TO LOCALLY REPLACE EXISTING BLUESTONE KERB. DEPTH TO MATCH EXISTING SLAB EDGE BEAM. REFER DETAIL FOR CONNECTION TO EXISTING SLAB EDGE.

#### NOTES:

- ENSURE ALL ELECTRICAL EARTHING REQUIREMENTS ARE ADHERED TO WITH THE INSTALLATION OF THE NEW AMENITIES CUBICLES. REFER TO YARRA TRAMS STANDARD DETAILS.
- REFER TO DETAILS PACKAGE FOR SLAB REINSTATEMENT DETAILS TO SUIT INSTALLATION OF NEW SERVICES.



THIS DRAWING INCLUDES  
COLOURED INFORMATION

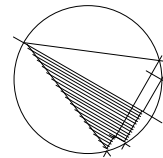
COPIES OF THIS DRAWING MUST  
BE PRODUCED IN COLOUR

PROPRIETARY AMENITY/CUBICLE  
FRAMING COLUMN. PROVIDE 15 NON  
SHRINK GROUT UNDER BASEPLATE AND  
FIX WITH CHEMICAL ANCHOR. SIZE AND  
EMBEDMENT IN ACCORDANCE WITH  
CUBICLE MANUFACTURER'S FIXING  
DETAILS. 100 MIN. EDGE DISTANCE TO  
EXISTING SLAB EDGE.

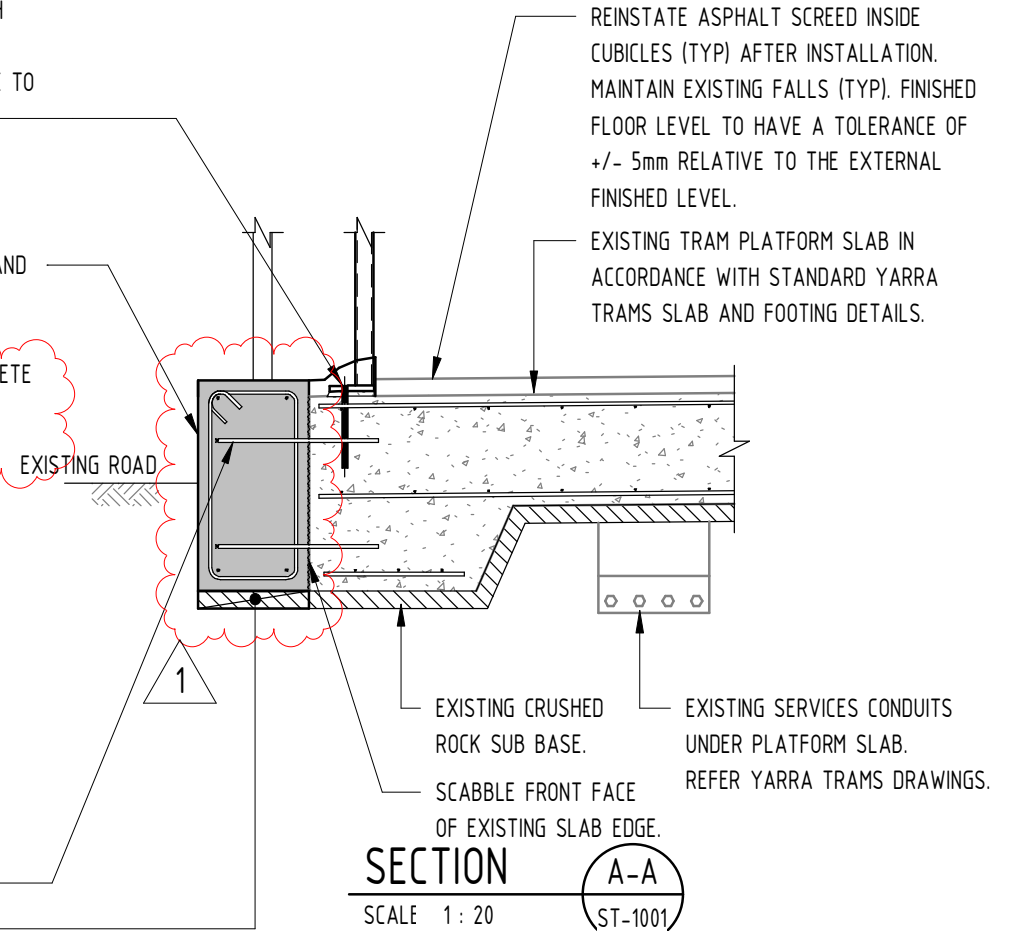
REFER PLAN FOR EXTENT, SIZE AND  
REINFORCEMENT OF NEW SLAB.  
DEPTH TO MATCH EXISTING SLAB  
EDGE BEAM. POUR TOP OF CONCRETE  
TO MATCH THE TOP OF THE  
EXISTING BLUESTONE BLOCKS.

N16-200 DOWELS TOP AND BOTTOM  
PROVIDE 250 LG COG AT FRONT  
FACE OF NEW SLAB. DRILL AND  
EPOXY 250 INTO EXISTING EDGE  
BEAM.

CUT OUT & REMOVE EXISTING CONCRETE  
BEDDING WHERE SUPPORTING  
BLUESTONE KERB TO BE REMOVED.  
PROVIDE 15 MPa BLINDING CONCRETE  
UNDER SLAB EXTENSION. FOUND INTO  
NATURAL FOUNDING MATERIAL OF 50  
kPa min BEARING CAPACITY. TO BE  
CONFIRMED BY A SUITABLY QUALIFIED  
GEOTECHNICAL ENGINEER.



CONSTRUCTION  
ISSUE



### SECTION

SCALE 1:20

A-A

ST-1001

1	05.02.24	CONSTRUCTION ISSUE	PK	AB	PR
0	23.01.24	CONSTRUCTION ISSUE	PK	AB	PR
REV.	DATE	DESCRIPTION	DRAFT	ENG.	CHKD.

# WGA

YARRA TRAMS DRIVER AMENITIES  
PARK STREET  
ST KILDA VIC 3182  
PARK STREET - SLAB PLAN AND SECTION ©

A3

Design  
AB

Drawn  
PK

DOCUMENT NUMBER  
Job Number

Sheet No.

Rev.

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