STATION ST MENANGLE
PEDESTRIAN BRIDGE CROSSING

FOR REVIEW OF ENVIRONMENTAL FACTORS (PART 5)

LOCALITY PLAN
N.T.S.

DRAWING LIST

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GENERAL	
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SEDIMENT & EROSION CONTROL	
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CLIENT:

mirvac

LGA WOLLONDILLY COUNCIL

LOT 11 & 2, DP 1262205 & 1262034

NSW GOVERNMENT | Transport for NSW

STATION ST MENANGLE
PEDESTRIAN BRIDGE CROSSING

PROJECT No.:	STAGE:	MILESTONE:	REVISION DATE:	DRAWING No.:	REVISION:
17-003293.002.PED		REF	25/05/2023	000	05

GENERAL NOTES

GENERAL

G1. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONDILLY SHIRE COUNCIL'S ENGINEERING DESIGN, ENGINEERING CONSTRUCTION SPECIFICATION AND TO THE REQUIREMENTS OF THE PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY.

G2. INSPECTIONS BY PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY SHALL BE REQUESTED AT THE FOLLOWING STAGES AND THE WORKS APPROVED PRIOR TO THE CONTINUANCE OF ANY WORK:
(a) FOLLOWING THE INSTALLATION OF EROSION AND SEDIMENT CONTROL STRUCTURES/MEASURES

(b) FINAL INSPECTIONS AFTER ALL WORKS ARE COMPLETED AND "WORK AS EXECUTED" PLANS HAVE BEEN SUBMITTED TO COUNCIL.

G5. NO TREES TO BE REMOVED UNLESS APPROVAL IS GRANTED BY COUNCILS LANDSCAPE COMPLIANCE OFFICER/DA CONSENT.

G6. MAKE SMOOTH JUNCTIONS WITH EXISTING WORKS

G7. NO WORK TO BE CARRIED OUT ON COUNCIL PROPERTY OR ADJOINING PROPERTIES WITHOUT THE WRITTEN PERMISSION FROM THE OWNER/S.

G8. VEHICULAR ACCESS AND ALL UTILITIES/SERVICES ARE TO BE MAINTAINED AT ALL TIMES TO ADJOINING PROPERTIES AFFECTED BY CONSTRUCTION.

G9. ALL RUBBISH, BUILDINGS, SHEDS, AND FENCES ARE TO BE REMOVED TO THE SATISFACTION OF COUNCILS ENGINEER/SUPERINTENDENT.

G10. COUNCIL ENGINEERS HAVE DISCRETION TO VARY, AS CONSIDERED NECESSARY, THE ENGINEERING REQUIREMENTS IN RESPECT OF PARTICULAR SUBDIVISION OR DEVELOPMENT HAVING REGARD TO THE SITE CONTEXT

G11. ALL LEVELS REFERENCED ARE AHD.

G12. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH WOLLONDILLY SHIRE COUNCIL SUBDIVISION & ENGINEERING STANDARD AND HAVE REGARD FOR TfNSW REQUIREMENTS
- 'WOLLONDILLY SHIRE COUNCIL CONSTRUCTION SPECIFICATION 2016'
- 'WOLLONDILLY SHIRE COUNCIL DESIGN SPECIFICATION 2016'
- 'WOLLONDILLY SHIRE COUNCIL STANDARD DRAWINGS 2016'

G.13. ALL WORK WITHIN RAIL CORRIDOR TO BE CARRIED OUT IN ACCORDANCE WITH ARTC REQUIREMENTS INCLUDING ARTC'S ENVIRONMENTAL PROTECTION LICENCE.

EARTHWORKS

1. EARTHWORKS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE PRINCIPAL CERTIFYING AUTHORITY/ ROADS AUTHORITY. UNSUITABLE MATERIALS ARE TO BE REMOVED FROM ROADS AND LOTS PRIOR TO FILLING. THE CONTRACTOR IS TO ARRANGE AND MAKE AVAILABLE COMPACTION TESTING RESULTS FOR ALL AREAS THAT CONTAIN FILL IN EXCESS OF 200mm.

2. COMPACTION OF EARTHWORKS SHALL CONTINUE UNTIL A DRY DENSITY RATIO OF 95% FOR SITE FILLING AND 100% FOR ROAD PAVEMENT SUBGRADES HAS BEEN ACHIEVED IN ACCORDANCE WITH TEST METHOD AS1289.5.3.1 OR AS1289.5.1.1.

3. THE CONTROL TESTING OF EARTHWORKS SHALL BE IN ACCORDANCE WITH THE GUIDELINES IN AS3798 "GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS". WHERE IT IS PROPOSED TO USE TEST METHOD AS1298.5.8.2 TO DETERMINE THE FIELD DENSITY, A SAND REPLACEMENT METHOD SHALL BE USED TO CONFIRM THE RESULTS.

4. THE SUBDIVISIONALGEOTECH ACCREDITED CERTIFIER, SHALL HAVE A LEVEL1 RESPONSIBILITY FOR ALL FILLING AS DEFINED IN APPENDIX B AS3798 'GUIDELINES ON EARTHWORKS FOR COMMERCIAL AND RESIDENTIAL DEVELOPMENTS' AND AT THE END OF THE WORKS SHALL CONFIRM THE EARTHWORKS COMPLY WITH THE REQUIREMENTS OF THE SPECIFICATION AND DRAWINGS BY WRITTEN NOTIFICATION.

5. IN AREAS TO BE FILLED WHERE THE SLOPE OF THE NATURAL SURFACE EXCEEDS 1(V):4(H), BENCHES ARE TO BE CUT TO PREVENT SLIPPING OF THE PLACED FILL MATERIAL AS REQUIRED BY THE COUNCIL

6. ALL BATTERS ARE TO BE SCARIFIED TO A DEPTH OF 50mm TO ASSIST THE ADHESION OF TOP SOIL TO BATTER FACE.

7. PROVIDE MINIMUM 150mm AND MAXIMUM 300mm TOPSOIL WITHIN FOOTPATHS, FILLED AREAS AND ALL OTHER AREAS DISTURBED DURING CONSTRUCTION. TOPSOILED AREAS TO BE STABILISED WITH APPROVED VEGETATION A MAXIMUM OF 2 DAYS AFTER TOPSOILING AND ARE TO BE WATERED TO ENSURE GERMINATION.

8. THE CONTRACTOR SHALL CONTROL SEDIMENTATION, EROSION AND POLLUTION DURING CONSTRUCTION IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT EDITION OF 'MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION' PROVIDED BY URBAN GROWTH.

9. EARTHWORKS TO BE SUPERVISED BY A GEOTECHNICAL ENGINEER

CALIBRE GENERAL

CG1. SURVEY SOURCED FROM:
-SURVEYOR: 'ADW JOHNSON' D.T.M. & BOUNDARY: 300058-DET-004-A.dwg SURVEY DATED 27 APRIL 2021
-SURVEYOR: 'ALS' : 204569-US-Menangle - DWG: LOT 202 DP590247 MENANGLE - DATED MARCH 2021
-SURVEYOR: 'ALS' : 204724-US-Menangle - DWG: STATION STREET MENANGLE - DATED APRIL 2021
NOTE: TREES SHOWN ARE INDICATIVE ONLY AND ARE A COMBINATION OF THE ABOVE SURVEY AND AERIAL IMAGING. AERIAL IMAGE SOURCED FROM NEARMAP DATED 16/05/2021. TREES ARE TO BE VERIFIED BY PROJECT ARBORIST.

CG2. CONTRACTOR IS TO ENSURE THAT ALL WORKS ASSOCIATED WITH PROPERTY BOUNDARIES ARE TO BE SET OUT OR VERIFIED BY A REGISTERED SURVEYOR

DIGITAL MODELS CREATED BY CALIBRE UNDER THIS COMMISSION ARE CREATED FOR THE PURPOSE OF THE PREPARATION OF DRAWINGS AND ESTIMATES OF QUANTITIES. INFORMATION CONTAINED IN THE DRAWINGS TAKES PRECEDENCE OVER THE DIGITAL MODEL UPON WHICH IT WAS BASED. USE OF DIGITAL MODELS, CREATED BY CALIBRE, BY OTHER PARTIES TO SET OUT WORKS OR FOR OTHER REASONS IS DONE ENTIRELY AT THE RISK OF THE PARTY SO USING THE DIGITAL MODEL

ROADWORKS

R1. SUBGRADES AND SUB BASES ARE TO BE COMPACTED IN ACCORDANCE WITH COUNCIL'S CONSTRUCTION SPECIFICATION.

R2. SUBSOIL DRAINS TO BE PROVIDED ON BOTH SIDES OF ROADS (EXCEPT WHERE THERE IS STORMWATER DRAINAGE).

R3. LIPLESS PERAMBULATOR CROSSINGS ARE TO BE PROVIDED IN ALL KERB RETURNS AND WHERE REQUIRED BY COUNCIL.

R4. SERVICE CONDUITS TO BE PLACED AS DIRECTED BY ALL PUBLIC UTILITY AUTHORITIES INCLUDING ENDEAVOUR ENERGY, TELSTRA AND SYDNEY WATER

R5. PROPOSED UTILITIES AND SERVICES CROSSING EXISTING ROADS SHALL BE PROVIDED FOR USING A TRENCHLESS TECHNIQUE SO AS NOT TO DAMAGE THE EXISTING SURFACE. ALL SERVICE CONDUITS UNDER ROADS MUST BE LAID TO A MINIMUM DEPTH OF 750mm.

R6. CONCRETE FOOTPATH CONSTRUCTION IS TO FOLLOW COMPLETION OF UTILITY/SERVICES AND SURROUNDING DWELLINGS.

R7. ALL TEMPORARY ROADS MUST BE TEMPORARILY SEALED WITH A SINGLE COAT FLUSH SEAL.

R8. REFER TO PAVEMENT PLAN SHEET 601 FOR ALL PAVEMENT DETAILS.

R9. SIGNPOSTING AND LINE MARKING SHALL CONFORM TO AS1742.2 'TRAFFIC CONTROL DEVICES FOR GENERAL USE', RAISED RETRO-REFLECTIVE PAVEMENT MARKERS TO CONFORM TO AS1906 'RETRO-REFLECTIVE MATERIALS AND DEVICES FOR ROAD TRAFFIC CONTROL PURPOSES'. ALL APRONS AND KERB FACE ON CENTRAL ISLANDS OF ROUNDABOUTS AND ALL OTHER ISLANDS TO BE DELINEATED BY REFLECTIVE WHITE MARKING. INSTALLATION SHALL OCCUR IN ACCORDANCE WITH THE PLAN APPROVED BY THE LOCAL TRAFFIC COMMITTEE.

R10 STREET SIGNS TO COUNCIL STANDARD MUST BE INSTALLED BY THE CONTRACTOR.

R11. STORMWATER PIPES IN ROAD RESERVE SHOULD BE A MINIMUM CLASS 3 RCP WITH A MINIMUM PIPE SIZE OF Ø375

STORMWATER

S1. ALL PIPES TO BE SPIGOT AND SOCKET, RUBBER RING JOINTED.

S2. ALL LONGITUDINAL PIPELINES IN ROADS MUST BE LOCATED UNDER KERB AND GUTTER AND BE BACKFILLED WITH APPROVED GRANULAR MATERIAL UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

S3. DRAINAGE LINES MUST BE BACKFILLED WITH APPROVED GRANULAR MATERIAL IN TRAFFICABLE AREAS. THREE (3) METRES OF SUBSOIL DRAINAGE WRAPPED IN GEOTEXTILE STOCKING MUST BE PROVIDED TO ALL DOWNSTREAM PITS.

S4. ALL GULLY PITS TO COUNCIL'S STANDARD AND LINTELS CENTRALLY PLACED AT SAG PITS.

S5. ALL PITS MUST BE BENCHED AND STREAMLINED. PROVIDE SL72 REINFORCEMENT AND GALVANISED STEP IRONS IN ALL PITS OVER 1.2-METRES DEEP AS MEASURED FROM THE TOP OF GRATE TO THE INVERT OF THE PIT.

S6. CONCRETE IS TO HAVE MINIMUM COMPRESSIVE STRENGTH OF 32MPA AT 28-DAYS UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

S7. ALL INTER-ALLOTMENT DRAINAGE MUST HAVE A MINIMUM PIPE DIAMETER OF 150mm AND A MINIMUM GRADE OF 1% UNLESS OTHERWISE APPROVED BY THE COUNCIL ENGINEER.

S8. ALL INTER-ALLOTMENT DRAINAGE LINES MUST BE LAID CENTRALLY WITHIN DRAINAGE EASEMENTS. INSPECTION PITS MUST BE PROVIDED AT ALL CHANGES OF GRADE AND DIRECTION.

S9. INTER-ALLOTMENT DRAINAGE LINES MUST BE INSTALLED AFTER SYDNEY WATER SEWERAGE LINES HAVE BEEN INSTALLED WHERE SEWER IS PROPOSED ADJACENT TO INTER-ALLOTMENT DRAINAGE LINES.

S10. 1% AEP OVERLAND FLOW PATHS MUST BE FORMED AND SHOWN ON 'WORKS AS EXECUTED' DRAWINGS.

S11. ALL PLANS (BOTH DESIGN AND WAE) ARE TO CLEARLY DELINEATE THE EXTENT/LOCATION OF FLOOD LINES INCLUDING THE 5% AEP, 1% AEP AND PMF.

S12. ADEQUATE PROVISION IS TO BE MADE TO PREVENT SCOURING AND SEDIMENTATION FOR ALL DRAINAGE WORKS IN ACCORDANCE WITH COUNCIL'S REQUIREMENTS.

S13. PIT LINTELS ARE TO BE STENCILLED WITH APPLICABLE DISTINCTION STENCIL AVAILABLE FROM COUNCIL.

S14. CATCH DRAINS MUST BE CONSTRUCTED AS REQUIRED BY THE APPROVED PLANS OR THE PRINCIPAL CERTIFYING AUTHORITY.

S15. SOIL AND WATER MANAGEMENT PLANS ARE TO BE PREPARED FOR ALL DISTURBED SITES AND ADHERED TO AT ALL TIMES DURING THE CONSTRUCTION AND MAINTENANCE PERIODS.

LEGEND

DESCRIPTION	PROPOSED	EXISTING	FUTURE
STORMWATER PIPELINE	375Ø		
STORMWATER DRAINAGE PITS			
DRAINAGE LINE No. 3 DRAINAGE PIT No. 10	3/10	3/10	3/10
CONCRETE HEADWALL			
SUBSOIL DRAIN	SS		
150mm KERB AND GUTTER	K&G	EXIST. K&G	FUT. K&G
450mm MODIFIED KERB AND GUTTER	M.K&G		
PEDESTRIAN RAMP	PR		
EDGE OF BITUMEN	EOB	EXIST. EOB	FUT. EOB
ROAD PAVEMENT			
BENCHMARK		BM: 115 RL:165.32	
BATTERS			
CONCRETE PATHWAY			
CONTOURS	99.5 99.0	99.5 99.0	99.5 99.0
SITE REGRADING AREA	CUT FILL		
SERVICE LINES SEWER, GAS, WATER, ELECTRICITY, RAIL WORKS SERVICE	S G W E RW	ex.S ex.G ex.W ex.E ex.RW	fut.S fut.G fut.W fut.E fut.RW
COMMUNICATION LINES TELSTRA, FIBRE OPTIC, NBN	T OF NBN	ex.T ex.OF ex.NBN	fut.T fut.OF fut.NBN
OVER HEAD LINES AND POLES	OH	ex.OH	fut.OH
SERVICE PITS TELECOM PIT, ACCESS CHAMBER, HYDRANT, STOP VALVE, AIR VALVE			
LIMIT OF ROAD CONSTRUCTION			
STAGE BOUNDARY			
LOT BOUNDARY			
EXISTING EASEMENT			
EXISTING BARRIER	B		
FENCE POST AND RAIL FENCE ARTC BOUNDARY FENCE		RETAIN REMOVE	
LOT NUMBERS	D-LOTNO	E-LOTNO	F-LOTNO
TREES TO RETAIN WITHIN SITE TREES TO REMOVED WITHIN SITE		RETAIN REMOVE	

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FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AV	AB/JS	CK	EF	25/02/2021	
01	AV	LH	CK	EF	10/06/2021	ISSUED FOR CONSTRUCTION CERTIFICATE
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03	AV	AV	CK	EF	18/08/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
04	RT	SS	CK	EF	07/10/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
05	RT	AB	GM	SA	25/05/2023	ISSUED FOR REF APPROVAL

AMENDMENTS

STATUS: FOR REVIEW OF ENVIRONMENTAL FACTORS (PART 5)

AUTHORISED FOR ISSUE:
BY: SINA ARBABZADEH SIGN: Sina Arbabzadeh
MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE

CLIENT: mirvac

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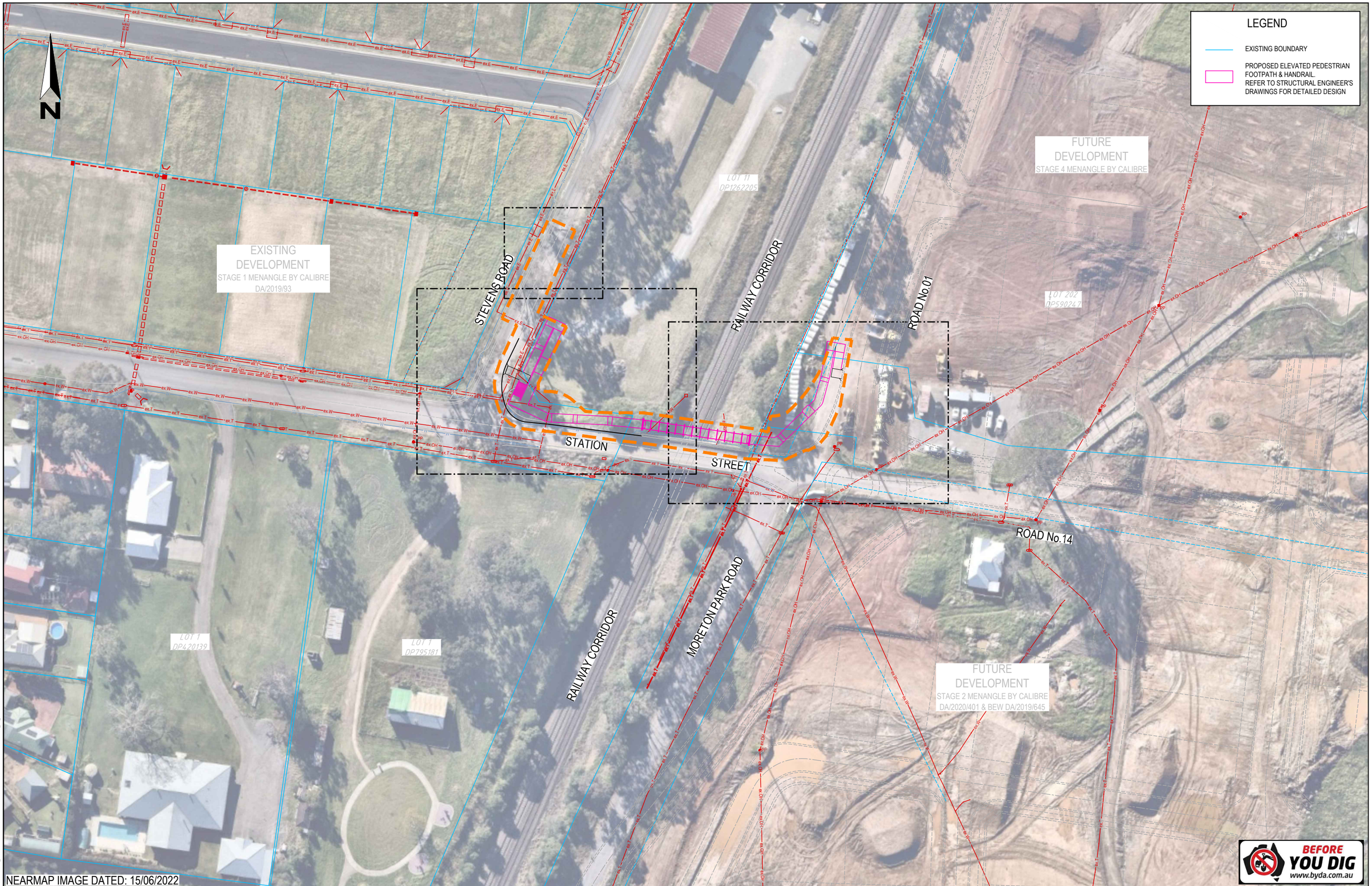
PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE: GENERAL NOTES & LEGEND

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	001	REF	05

FILE: H:\TI\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PED\BSTR\HANBRIDGESEWC17-003293-02-PED_LD_SWC-001.DWG LAST SAVED BY ADAM.BATH



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SCALE: 0 5 10 15 20 25 30 35 40
SCALE 1:500 (A1) SCALE 1:1000 (A3)

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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DRAWING TITLE: GENERAL ARRANGEMENT PLAN

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	002	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGES\WC\17-003293-02-PED_LD_SWC-002.DWG LAST SAVED BY:ADAN.BATH

N

EXISTING DEVELOPMENT
STAGE 1 MENANGLE BY CALIBRE

ROAD

STEVENS

RAILWAY CORRIDOR

RAILWAY CORRIDOR

No.01

STREET

STATION

POSSIBLE STOCKPILE SITE

SITE COMPOUND AREA

FUTURE DEVELOPMENT
STAGE 2 MENANGLE BY CALIBRE

BRIDGE ASSEMBLY AREA

ALL EXCAVATION WORKS WITHIN TPZ OF TREE TO BE UNDERTAKEN IN THE PRESENCE OF RAIL AUTHORITY AND/OR ARBORIST (LEVEL 5) AT RAIL AUTHORITY'S DISCRETION. TREE MUST BE PROTECTED AND PRESERVED THROUGHOUT CONSTRUCTION PHASE.

REFER TO INSET 'A'

TREES TO BE REMOVED AS PER ARBORIST REPORT (AFRICAN OLIVE)

INSET 'A'
SCALE 1:100

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LEGEND

- SEDIMENT FENCE (SD 6-8)
- BARRIER FENCE
- GEOTEXTILE INLET FILTER (SD 6-12) DURING CONSTRUCTION OF THE ROAD.
- EXISTING CONTOUR (ORIGINAL NATURAL SURFACE)
- PROPOSED CONTOUR
- TREE TO BE RETAINED & PROTECTED
- TREE TO BE REMOVED (EXTENT OF TPZ) AS PER ARBORIST'S REPORT STURT NOBLE ARBORICULTURE
- DBH AS PER ARBORIST'S REPORT STURT NOBLE ARBORICULTURE
- SRZ AS PER ARBORIST'S REPORT STURT NOBLE ARBORICULTURE
- CUT AREA
- FILL AREA

EARTHWORKS VOLUMES

TOTAL FILL	101m^3
TOTAL CUT	-5m^3
TOTAL BALANCE	96m^3

NOTE

ARP3860 & URS21616 WORKS ASSOCIATED WITH STAGE 2 REQUIRE TO BE COMPLETED TO CLEAR SERVICES FROM FOOTPRINT OF PEDESTRIAN BRIDGE WORKS.

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	01	AV	AB/JS	CK	EF	25/02/2021	
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SCALE
SCALE 1:100 (A1) SCALE 1:200 (A3)
SCALE 1:200 (A1) SCALE 1:400 (A3)

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PROJECT
STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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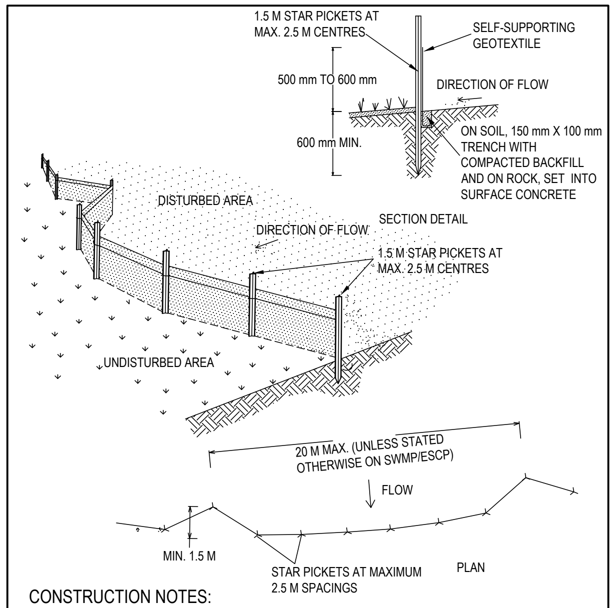
DRAWING TITLE
SOIL & WATER MANAGEMENT & SITE REGRADING PLAN

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	101	REF	05

FILE:H:\17\17-003293 - STATION ST MENANGLE - U\06. MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGES\WC\17-003293-02.PED_LD_SWC-101.DWG LAST SAVED BY:ADANBATH

SEDIMENT & EROSION CONTROL NOTES

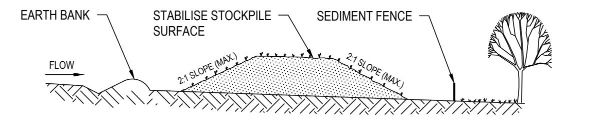
1. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH ARTC'S ENVIRONMENTAL PROTECTION LICENCE (SECTION 55 PROTECTION OF THE ENVIRONMENT OPERATIONS ACT 1997) FOR WORKS WITHIN THE RAIL CORRIDOR.
2. THE CONTRACTOR SHALL IMPLEMENT ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO THE COMMENCEMENT OF ANY WORKS BEING CARRIED OUT. ALL SOIL AND EROSION MEASURES SHALL BE MAINTAINED AND KEPT IN PLACE FOR THE FULL DURATION OF THE WORKS AND SHALL ONLY BE REMOVED AT FINAL STABILISATION OF THE WORKS. WHERE IT IS NECESSARY TO UNDERTAKE STRIPPING IN ORDER TO CONSTRUCT A SEDIMENT CONTROL DEVICE ONLY SUFFICIENT GROUND SHALL BE STRIPPED TO ALLOW CONSTRUCTION.
3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED & MAINTAINED AS INDICATED ON THESE DRAWINGS AT A MINIMUM LOCATION AND EXTENT OF SOIL & WATER MANAGEMENT DEVICES IS DIAGRAMMATIC ONLY AND THE ACTUAL REQUIREMENTS SHALL BE CONFIRMED ON SITE PRIOR TO COMMENCEMENT.
4. CONFORMITY WITH THIS PLAN SHALL IN NO WAY REDUCE THE RESPONSIBILITY OF THE CONTRACTOR TO PROTECT AGAINST WATER DAMAGE DURING THE COURSE OF THE CONTRACT. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ANY NECESSARY CONTROL IS IN PLACE EVEN THOUGH SUCH CONTROL MAY NOT BE SHOWN ON THE PLAN.
5. THE CONTRACTOR SHALL INFORM ALL SUBCONTRACTORS & ALL EMPLOYEES OF THEIR RESPONSIBILITIES IN MINIMISING THE POTENTIAL FOR SOIL EROSION & POLLUTION TO DOWNSTREAM AREAS
6. APART FROM SEDIMENT BASINS, THE CONTRACTOR SHALL REGULARLY MAINTAIN SEDIMENT AND EROSION CONTROL STRUCTURES & DESILT SUCH STRUCTURES PRIOR TO THE REDUCTION IN CAPACITY OF 30% DUE TO ACCUMULATED SEDIMENT. THE SEDIMENT SHALL BE DISPOSED OF ON SITE IN A MANNER APPROVED BY THE ENGINEER.
7. THE CONTRACTOR SHALLTEMPORARILY REHABILITATE WITHIN TEN (10) DAYS ANY DISTURBED AREAS PROVIDING A MINIMUM 60% COVER. FINAL REHABILITATION IS TO BE PROVIDED WITHIN A FURTHER 60 DAYS WITH A MINIMUM 70% COVER.
8. THE CONTRACTOR SHALL PROVIDE WATERING OF THE VEGETATED BATTERS FOR MAINTENANCE PERIOD. PLANT, MACHINERY AND VEHICLES SHALL NOT BE DRIVEN OVER GRASSED AREAS UNLESS ON AN APPROVED HAULAGE ROUTE.
9. ALL DRAINAGE WORKS SHALL BE CONSTRUCTED AND STABILISED AS QUICKLY AS POSSIBLE TO MINIMISE RISK OF EROSION.
10. SITE ACCESS SHALL BE RESTRICTED TO THE NOMINATED POINTS. THE CONTRACTOR SHALL PROVIDE STABILISED SITE ACCESS.
11. DUST AND SITE DISTURBANCE MUST BE KEPT TO A MINIMUM. DURING WINDY WEATHER, LARGE, UNPROTECTED AREAS MUST BE KEPT MOIST (NOT WET) BY SPRINKLING WITH WATER TO REDUCE WIND EROSION. ERECT BARRIER FENCING TO MINIMISE LAND DISTURBANCE BY PREVENTING VEHICULAR AND PEDESTRIAN ACCESS TO AREAS BEING REHABILATATED AND LANDS THAT DO NOT NEED TO BE DISTURBED BY THIS PROJECT.
12. STOCKPILE TOPSOILS, SUBSOILS AND OTHER MATERIALS SEPARATELY.
13. TOPSOIL SHALL BE STORED IN LOW MOUNDS NO MORE THAN 2 METRES HIGH AND RE-USED WITHIN TWO MONTHS TO MAINTAIN ACTIVE POPULATIONS OF BENEFICIAL SOIL MICROBES & SEED.
14. PLACE ALL STOCKPILES AT LEAST FIVE METRES FROM AREAS OF LIKELY CONCENTRATED OR HIGH VELOCITY FLOWS, ESPECIALLY EARTH BANKS AND ROADS. IF NECESSARY, EARTH BANKS OR DRAINS WILL BE CONSTRUCTED TO DIVERT LOCALISED RUN-ON.
15. TURN TOPSOIL STOCKPILES OVER TO AERATE THEM AT MONTHLY INTERVALS. ENSURE VEGETATION IS NOT INCORPORATED INTO THE SOIL.
16. AVOID REVERSING THE SOIL PROFILE MATERIALS DURING FILL OPERATIONS - REPLACE DISTURBED SOILS IN THEIR ORIGINAL ORDER.
17. ON COMPLETION OF MAJOR EARTHWORKS AND BEFORE ADDING TOPSOIL, LEAVE DISTURBED LANDS WITH A LOOSE SURFACE. ALTERNATELY, DISTURBED AREAS PREVIOUSLY COMPACTED BY CONSTRUCTION WORKS WILL BE RIPPED TO MORE THAN 200mm ALONG THE CONTOUR BEFORE APPLYING TOPSOIL
18. PROVIDING MATERIALS ARE AVAILABLE, SPREAD TOPSOIL TO A MINIMUM DEPTH OF 75mm IN REVEGETATION AREAS ON SLOPES OF 4(H):1(V) OR LESS AND TO A DEPTH OF 40 TO 60mm IN REVEGETATION AREAS STEEPER THAN 4:1.
19. LEAVE TOPSOIL IN A SCARIFIED OR ROUGH CONDITION ONCE REPLACED TO HELP MOISTURE INFILTRATION AND REDUCE SOIL EROSION.
20. ENSURE SOIL IS THOROUGHLY SOAKED TO A DEPTH OF 75mm (RAIN OR IRRIGATION) IMMEDIATELY BEFORE PLANTING.
21. HANDLE TOPSOIL ONLY WHEN IT IS MOIST (NOT WET OR DRY) TO AVOID DECLINE OF SOIL STRUCTURE
22. THE CONTRACTOR SHALL MAINTAIN A LOG BOOK DETAILING:
    - RECORDS OF ALL RAINFALL
    - CONDITION OF SOIL AND WATER MANAGEMENT STRUCTURES
    - ANY APPLICATION OF FLOCCULATING AGENTS TO SEDIMENT BASIN
    - VOLUMES OF ALL WATER DISCHARGED FROM SEDIMENT BASINS
    - ANY ADDITIONAL REMEDIAL WORKS REQUIRED.
23. THE LOG BOOK SHALL BE MAINTAINED ON A WEEKLY BASIS AND BE MADE AVAILABLE TO ANY AUTHORISED PERSON UPON REQUEST. THE ORIGINAL LOG BOOK SHALL BE ISSUED TO THE PROJECT MANAGER AT THE COMPLETION OF WORKS
24. ALL ROAD EMBANKMENTS TO BE STABILISED AS PER LANDSCAPE ARCHITECTS DETAILS.
25. A SELF AUDITING PROGRAM SHOULD BE ESTABLISHED BASED ON A CHECK SHEET DEVELOPED FOR THE SITE. A SITE INSPECTION USING THE CHECK SHEET SHOULD BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE AND IMMEDIATELY FOLLOWING RAINFALL EVENTS THAT CAUSE RUNOFF.
26. UNDERTAKE THE SELF AUDIT BY:
    - WALKING AROUND THE SITE SYSTEMATICALLY (E.G. CLOCKWISE)
    - RECORDING THE CONDITION OF EVERY BMP EMPLOYED
    - RECORDING MAINTENANCE REQUIREMENTS (IF ANY) FOR EACH BMP
    - RECORDING THE SITE WHERE SEDIMENT IS DISPOSED
    - FORWARDING A SIGNED DUPLICATE OF THE COMPLETED CHECK SHEET TO THE PROJECT MANAGER/DEVELOPER/SITE OPERATOR FOR THEIR INFORMATION
27. IN PARTICULAR, INSPECT:
    - LOCATIONS WHERE VEHICLES ENTER AND LEAVE THE SITE
    - ALL INSTALLED EROSION AND SEDIMENT CONTROL MEASURES, ENSURING THEY ARE OPERATING CORRECTLY
    - AREAS THAT MIGHT SHOW WHETHER SEDIMENT OR OTHER POLLUTANTS ARE LEAVING THE SITE OR HAVE POTENTIAL TO DO SO
    - ALL DISCHARGE POINTS, TO ASSESS WHETHER THE EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING IMPACTS TO THE RECEIVING WATERS
28. A SITE INSPECTION USING THE CHECK SHEET WILL BE MADE BY THE SITE MANAGER AT LEAST WEEKLY, IMMEDIATELY BEFORE SITE CLOSURE, AND IMMEDIATELY FOLLOWING RAINFALL EVENTS GREATER THAN 5mm IN 24 HOURS.



CONSTRUCTION NOTES:

1. CONSTRUCT SEDIMENT FENCES AS CLOSE AS POSSIBLE TO BEING PARALLEL TO THE CONTOURS OF THE SITE, BUT WITH SMALL RETURNS AS SHOWN IN THE DRAWING TO LIMIT THE CATCHMENT AREA OF ANY ONE SECTION. THE CATCHMENT AREA SHOULD BE SMALL ENOUGH TO LIMIT WATER FLOW IF CONCENTRATED AT ONE POINT TO 50 LITRES PER SECOND IN THE DESIGN STORM EVENT, USUALLY THE 10-YEAR EVENT.
2. CUT A 150-mm DEEP TRENCH ALONG THE UPSLOPE LINE OF THE FENCE FOR THE BOTTOM OF THE FABRIC TO BE ENTRENCHED.
3. DRIVE 1.5 METRE LONG STAR PICKETS INTO GROUND AT 2.5 METRE INTERVALS (MAX) AT THE DOWNSLOPE EDGE OF THE TRENCH. ENSURE ANY STAR PICKETS ARE FITTED WITH SAFETY CAPS.
4. FIX SELF-SUPPORTING GEOTEXTILE TO THE UPSLOPE SIDE OF THE POSTS ENSURING IT GOES TO THE BASE OF THE TRENCH. FIX THE GEOTEXTILE WITH WIRE TIES OR AS RECOMMENDED BY THE MANUFACTURER. ONLY USE GEOTEXTILE SPECIFICALLY PRODUCED FOR SEDIMENT FENCING. THE USE OF SHADE CLOTH FOR THIS PURPOSE IS NOT SATISFACTORY.
5. JOIN SECTIONS OF FABRIC AT A SUPPORT POST WITH A 150-mm OVERLAP.
6. BACKFILL THE TRENCH OVER THE BASE OF THE FABRIC AND COMPACT IT THOROUGHLY OVER THE GEOTEXTILE.

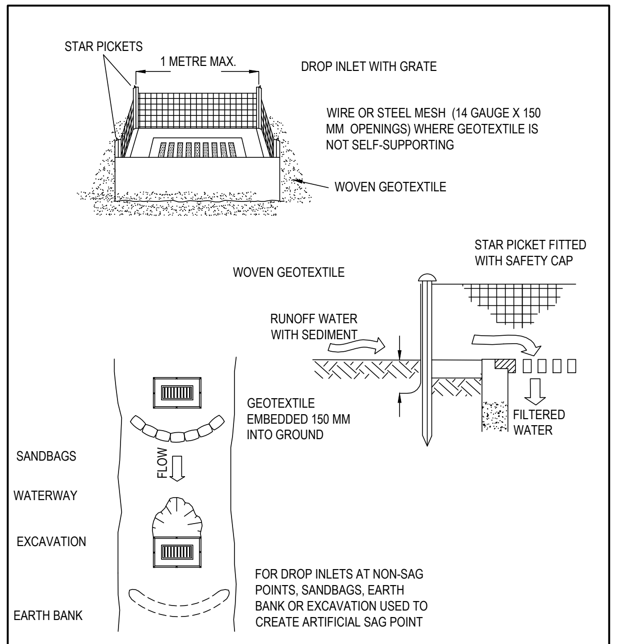
SEDIMENT FENCE — SD 6-8



CONSTRUCTION NOTES:

1. PLACE STOCKPILES MORE THAN 2 (PREFERABLY 5) METRES FROM EXISTING VEGETATION, CONCENTRATED WATER FLOW, ROADS AND HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT, ELONGATED MOUNDS.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2 METRES IN HEIGHT.
4. ALL STOCKPILES ARE TO BE LOCATED AND PLACED IN ACCORDANCE WITH THE CONTRACTOR'S EROSION AND SEDIMENT CONTROL PLAN.
5. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) NO STABILISATION IS REQUIRED. REVIEW THE ADEQUACY OF SEDIMENT CONTROLS IF RAINFALL IS PREDICTED.
6. WHERE STOCKPILES ARE TEMPORARY (<14 DAYS) THE FOLLOWING ADDITIONAL CONTROLS ARE REQUIRED:
   -MAXIMUM BATTER SLOPE REDUCED TO 1:4
   -CONSTRUCT A CONTOUR DRAIN ON THE LOW SIDE OF THE STOCKPILE, AND DISCHARGING THROUGH A STRAW BALE OR 200mm HIGH GRAVEL DAM
   -ESTABLISH GRASS COVER TO SURFACE OF STOCKPILE WITHIN 14 DAYS, USING HYDROMULCH WITH A 75:25 MIX OF SEASONAL AND PERMANENT GRASS SEEDS, AND A STRAW MULCH THICKNESS OF NO LESS THAN 5mm.
7. CONSTRUCT EARTH BANKS (STANDARD DRAWING 5-5) ON THE UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES AND SEDIMENT FENCES (STANDARD DRAWING 6-8) 1 TO 2 METRES DOWNSLOPE.

STOCKPILES — SD 4-1



CONSTRUCTION NOTES:

1. FABRICATE A SEDIMENT BARRIER MADE FROM GEOTEXTILE OR STRAW BALES.
2. FOLLOW STANDARD DRAWING 6-7 AND STANDARD DRAWING 6-8 FOR INSTALLATION PROCEDURES FOR THE STRAW BALES OR GEOFABRIC.REDUCE THE PICKET SPACING TO 1 METRE CENTRES.
3. IN WATERWAYS, ARTIFICIAL SAG POINTS CAN BE CREATED WITH SANDBAGS OR EARTH BANKS AS SHOWN IN THE DRAWING.
4. DO NOT COVER THE INLET WITH GEOTEXTILE UNLESS THE DESIGN IS ADEQUATE TO ALLOW FOR ALL WATERS TO BYPASS IT.

GEOTEXTILE INLET FILTER — SD 6-12

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGE\SWC\17-003293-02-PED_LD_SWC-102.DWG LAST SAVED BY:ANDREW VLANGOS

		DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
FIRST ISSUE		AV	AB/JS	CK	EF	25/02/2021	
AMENDMENTS	01	AV	LH	CK	EF	10/06/2021	ISSUED FOR CONSTRUCTION CERTIFICATE
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	03	AV	AV	CK	EF	18/08/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
	04	RT	SS	CK	EF	07/10/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
	05	RT	AB	GM	SA	25/05/2023	ISSUED FOR REF APPROVAL

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FOR REVIEW OF ENVIRONMENTAL FACTORS (PART 5)

AUTHORISED FOR ISSUE:
BY: SINA ARBABZADEH SIGN: Sina Arbabzadeh
MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE

CLIENT

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PROJECT
STATION ST MENANGLE
PEDESTRIAN BRIDGE CROSSING

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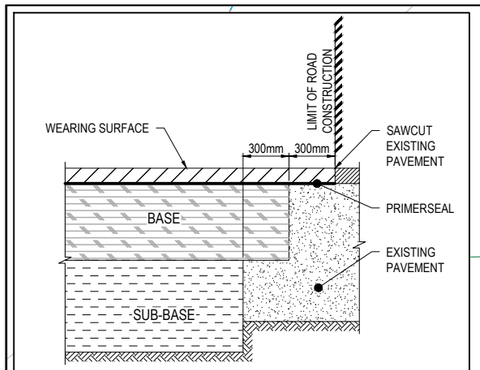
DRAWING TITLE
SOIL & WATER MANAGEMENT NOTES & DETAILS

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	102	REF	05



PAVEMENT SAWCUT JOINT DETAIL
FOR PIPE INSTALLATION

PAVEMENT TRAVERSE JOINT WITH EXISTING PAVEMENT

SCALE - 1:10

SAWCUT AND REMOVE EXISTING PAVEMENT WITHIN VICINITY OF PROPOSED STORMWATER PIPE BETWEEN PIT 01/1 & 01/3. BACKFILL AND COMPACT GRANULAR MATERIAL, RECONSTRUCT PAVEMENT AND MAKE SMOOTH CONNECTION TO EXISTING UPON COMPLETION. REFER TO PAVEMENT SAWCUT DETAIL.

REFER INSET 'A'

ALL EXCAVATION WORKS WITHIN TPZ OF TREE TO BE UNDERTAKEN IN THE PRESENCE OF RAIL AUTHORITY AND/OR ARBORIST (LEVEL 5) AT RAIL AUTHORITY'S DISCRETION. TREE MUST BE PROTECTED AND PRESERVED THROUGHOUT CONSTRUCTION PHASE.

EXISTING TELCO TO BE LOCATED AND PROTECTED.

SAWCUT EXISTING PAVEMENT & INSTALL NEW KERB & GUTTER. REFER TO DWG. No.601 FOR PAVEMENT SAWCUT DETAIL.

EXISTING ACCESS & GATE TO RELOCATED BY OTHER. CONFIRMATION OF NEW LOCATION TO BE SOUGHT FROM TfNSW/ARTC PRIOR.

PRAM RAMP TO BE INSTALLED IN ACCORDANCE TO WOLLONDILLY SHIRE COUNCIL STANDARD DRAWING No. WSC.D1.17 AND RELEVANT AUSTRALIAN STANDARDS & DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (DSAPT).

EXISTING PRAM RAMP CROSSING BUILT AS PART OF STAGE 1 S138 DA 2019/93/1

INSTALL BOUNDARY FENCE 1.5m OFF PEDESTRIAN RAMP TO ARTC STANDARDS

EXISTING SERVICES CONDUITS TO BE LOCATED, POTHOLED & PROTECTED. CONTRACTOR TO PROVIDE MINIMUM CONDUIT/ PIPE COVER IN ACCORDANCE WITH RELEVANT AUTHORITIES REQUIREMENTS. CONTRACTOR TO CONTACT SUPERINTENDENCY FOR ANY DIRECTIONS ONCE SURVEY IS COMPLETED.

PIER LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED BY D&C CONTRACTOR. ENSURE TO AVOID CLASHES WITH PROPOSED SERVICES AND EXISTING BURIED SERIVICES

INSTALL BOUNDARY FENCE TO ARTC STANDARDS

EXISTING FENCE TO BE REMOVED AND DISPOSED OFF SITE

REFER TO DWG 302 FOR LINEMARKING LEGEND AND DETAILS

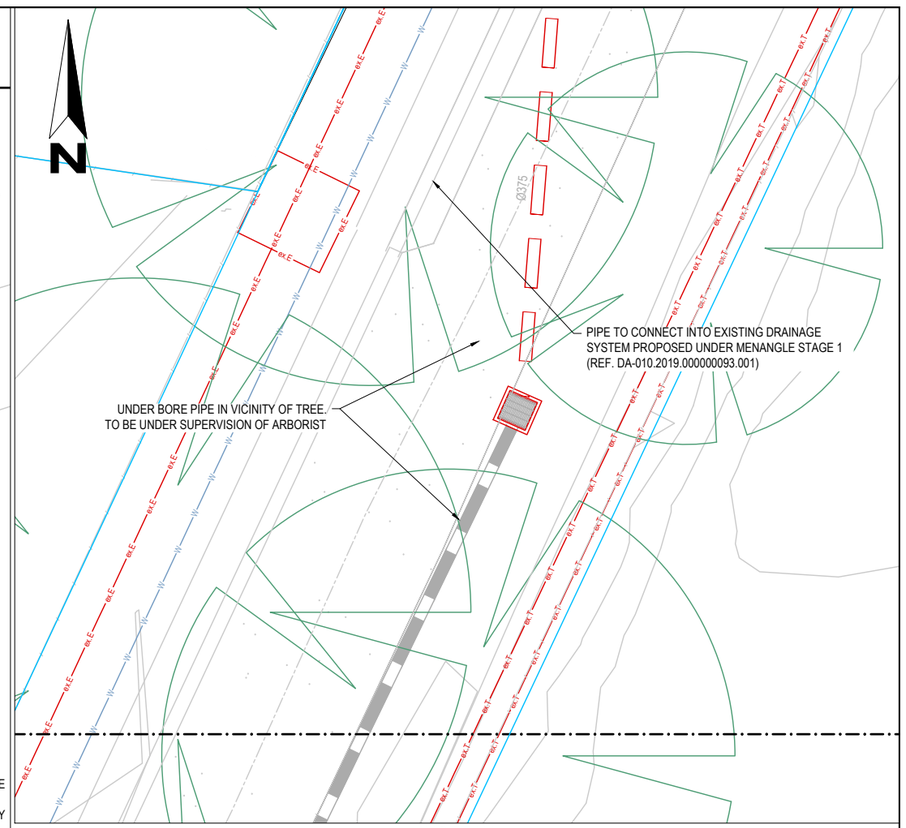
EXISTING TELCO TO BE LOCATED AND PROTECTED

REMOVE & REINSTATE EXISTING BARRIER GUARDRAIL TO TOP OF CONCRETE STRIP BEHIND KERB FROM CH19.67 TO CH66.45. FOR GUARDRAIL FOOTING DETAIL REFER TO RMS STANDARD DRAWING No.R0710-04.

MODIFIED KERB TO TRANSITION OVER 5m INTO EXISTING BARRIER KERB.

FOR CONTINUATION REFER TO SHEET No.302

PROPOSED PEDESTRIAN BRIDGE (DESIGNED BY BRIDGE DESIGN)



INSET 'A'

SCALE 1:100

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NOTE:

1. PEDESTRIAN RAMP DESIGN TO STRUCTURAL ENGINEER'S DETAIL AND RELEVANT AUSTRALIAN STANDARDS & DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (DSAPT).
2. ALL SERVICES TO BE LOCATED AND POTHOLED PRIOR TO ANY CONSTRUCTION.

LEGEND

- EXISTING BOUNDARY
- PROPOSED ELEVATED PEDESTRIAN FOOTPATH & HANDRAIL. REFER TO STRUCTURAL ENGINEER'S DETAILS

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
		AV	AB/JS	CK	EF	25/02/2021	
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MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE: 0 1 2 3 4 5 6 7 8
SCALE 1:100 (A1) SCALE 1:200 (A3)

CLIENT: mirvac

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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DRAWING TITLE: ENGINEERING PLAN SHEET 01 OF 02

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	301	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGES\NCI17-003293-02-RED_LD_SWC-301.DWG LAST SAVED BY AIDAN.BATH

LINEMARKING LEGEND

LINE TYPE	USE	DIMENSIONS (m) (FOR DIMENSIONS SHOWN * SEE MARKER SPACING COLUMN.)	COLOUR	RAISED MARKER TYPE	MARKER SPACING (*) (m)	
					NORMAL SPACING (A)	ALTERNATIVE SPACING (B)
TB	GIVE WAY LINE (USED WITH SIGNS)	0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.6 – 0.30	WHITE	NOT REQUIRED	-	-
BB	1. 1. REPLACES DIVIDING (SEPARATION) LINE IF RESTRICTED SIGHT DISTANCE FOR BOTH DIRECTIONS OR 2. APPROACH TO MEDIAN ISLAND OR 3. APPROACHES TO A PEDESTRIAN CROSSING	0.10, *, 0.025 MIN 0.05 MAX, 0.100.10, 0.025 MIN 0.05 MAX	WHITE	YY YY	12	12

N

EXISTING BOUNDARY

R6-13 MODIFIED

NO PEDESTRIANS BEYOND THIS POINT

280°14'47"

190°14'49"

10°14'46"

PEDESTRIAN RAMP & FOOTPATH TO MATCH IN SMOOTH BETWEEN RAMP & PROPOSED KERB

RAMP 1 CL

PR

FUT. PR

FUTURE LOT1 DP1272871

LOT 202 DP590247

CONTRACTOR TO MAINTAIN ACCESS

10.06m WIDE (VARIABLE) R.O.C.

EXISTING TREE TO BE RETAINED AND PROTECTED

19A°36'

4m

G9-58 CYCLISTS DISMOUNT

PRAM RAMP TO BE INSTALLED IN ACCORDANCE TO WOLLONDILLY SHIRE COUNCIL STANDARD DRAWING No. WSC.D1.17 AND RELEVANT AUSTRALIAN STANDARDS & DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (DSAPT).

FUTURE BOUNDARY PROPOSED UNDER DA/2019/644 & DP1272871

FUT. RK

FUT. RK

FUTURE DEVELOPMENT STAGE 2 MENANGLE BY CALIBRE

ROAD No.01

EXISTING BOUNDARY

FUTURE LOT 3 DP1272871

LOT 11 DP1262205

FOR CONTINUATION REFER TO SHEET No.301

RAILWAY CORRIDOR

CREST 117.1

EXISTING RAIL FENCE TO BE MAINTAINED

PIER LOCATIONS ARE INDICATIVE ONLY, TO BE CONFIRMED BY D&C CONTRACTOR. ENSURE TO AVOID CLASHES WITH PROPOSED SERVICES AND EXISTING BURIED SERIVICES

278°15'45"

PROPOSED PEDESTRIAN BRIDGE (DESIGNED BY BRIDGE DESIGN)

STATION STREET

EXISTING BOUNDARY

EXISTING SERVICES CONDUITS TO BE LOCATED, POTHOLED & PROTECTED. CONTRACTOR TO PROVIDE MINIMUM CONDUIT/ PIPE COVER IN ACCORDANCE WITH RELEVANT AUTHORITIES REQUIREMENTS. CONTRACTOR TO CONTACT SUPERINTENDENCY FOR ANY DIRECTIONS ONCE SURVEY IS COMPLETED.

EXISTING BOUNDARY

6m WIDE EASEMENT

ROAD No.14

LOT 11 DP1262205

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NOTE:

1. PEDESTRIAN RAMP DESIGN TO STRUCTURAL ENGINEER'S DETAIL AND RELEVANT AUSTRALIAN STANDARDS & DISABILITY STANDARDS FOR ACCESSIBLE PUBLIC TRANSPORT (DSAPT).
2. ALL SERVICES TO BE LOCATED AND POTHOLED PRIOR TO ANY CONSTRUCTION.
3. EARTHWORKS AT FUTURE ROUNDABOUT TO REFER TO STAGE 2 CC PLANS BY CALIBRE (REF.DA/2020/401)

LEGEND

- EXISTING BOUNDARY
- PROPOSED ELEVATED PEDESTRIAN FOOTPATH & HANDRAIL. REFER TO STRUCTURAL ENGINEER'S DETAILS

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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	04	RT	SS	CK	EF	07/10/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
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MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE: 0 1 2 3 4 5 6 7 8
SCALE 1:100 (A1) SCALE 1:200 (A3)

CLIENT: mirvac

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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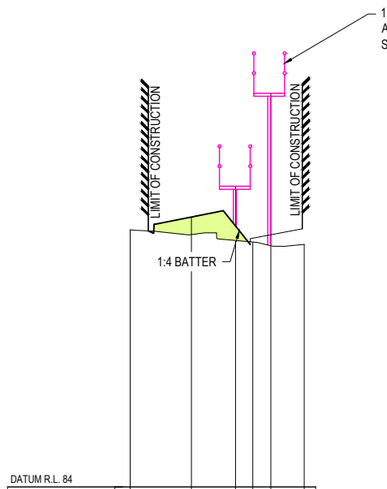
DRAWING TITLE: ENGINEERING PLAN SHEET 02 OF 02

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	302	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PED\STRAN\BRIDGES\MOL\17-003293-02-PED_LO_SHC-302.DWG LAST SAVED BY: AIDAN.BATH

LEGEND

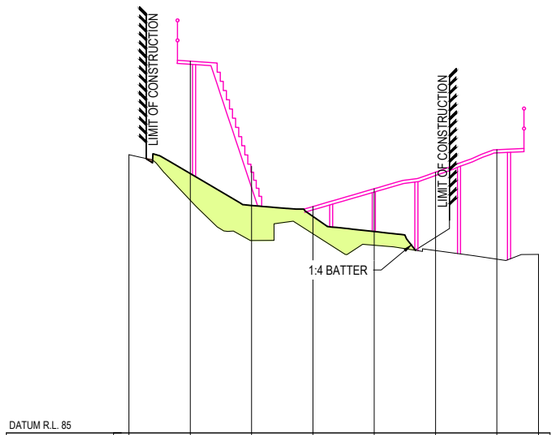
- EXISTING LEVEL
- DESIGN LEVEL
- STAGE 2 DESIGN LEVEL (AS PER DA.2020/401)
- PEDESTRIAN RAMP & BRIDGE. REFER TO STRUCTURAL ENG. DRAWINGS FOR DETAILED BRIDGE DESIGN
- CUT AREA
- FILL AREA



DATUM R.L. 84

W.A.E. LEVEL							
RAMP LEVEL			89.90		90.42		
DESIGN LEVEL		88.4					
EXISTING LEVEL	88.19	88.11	88.02	87.99	87.93	87.95	
CHAINAGE	0	5	8.6	10	11.5	14.191	

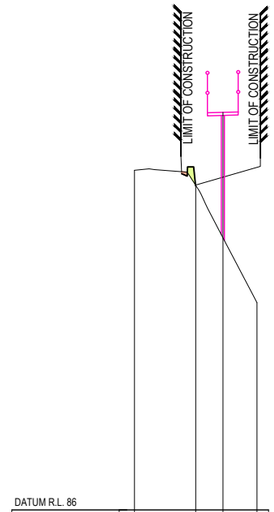
SECTION 1 / 101
SCALE: 1:250 (H)
SCALE: 1:50 (V)



DATUM R.L. 85

W.A.E. LEVEL								
RAMP LEVEL		91.06	89.35	88.69	88.98	89.25	89.62	
DESIGN LEVEL		89.23	88.71	88.53	88.28			
EXISTING LEVEL	89.54	88.79	88.14	88.25	88.06	87.97	87.83	87.91
CHAINAGE	0	5	10	15	20	25	30	33.398

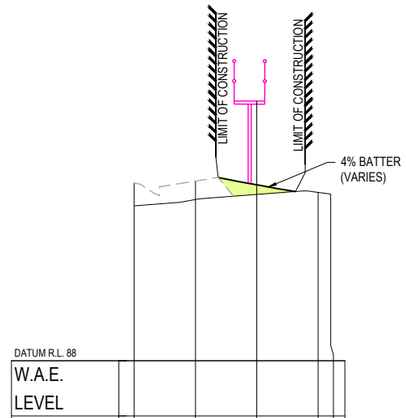
SECTION 2 / 101
SCALE: 1:250 (H)
SCALE: 1:50 (V)



DATUM R.L. 86

W.A.E. LEVEL					
RAMP LEVEL			92.48		
DESIGN LEVEL		91.29			
EXISTING LEVEL	91.54	91.29	90.44	89.38	
CHAINAGE	0	5	7.22	9.995	

SECTION 3 / 101
SCALE: 1:250 (H)
SCALE: 1:50 (V)



DATUM R.L. 88

W.A.E. LEVEL						
STAGE 2 LEVEL	90.9	90.93				
RAMP LEVEL			92.23			
DESIGN LEVEL			90.87			
EXISTING LEVEL	90.52	90.63	90.71	90.74	90.72	
CHAINAGE	0	5	10	15	16.024	

SECTION 4 / 101
SCALE: 1:250 (H)
SCALE: 1:50 (V)

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0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0
SCALE 1:50 (A1) SCALE 1:100 (A3)
0 2.5 5 7.5 10 12.5 15 17.5 20
SCALE 1:250 (A1) SCALE 1:500 (A3)

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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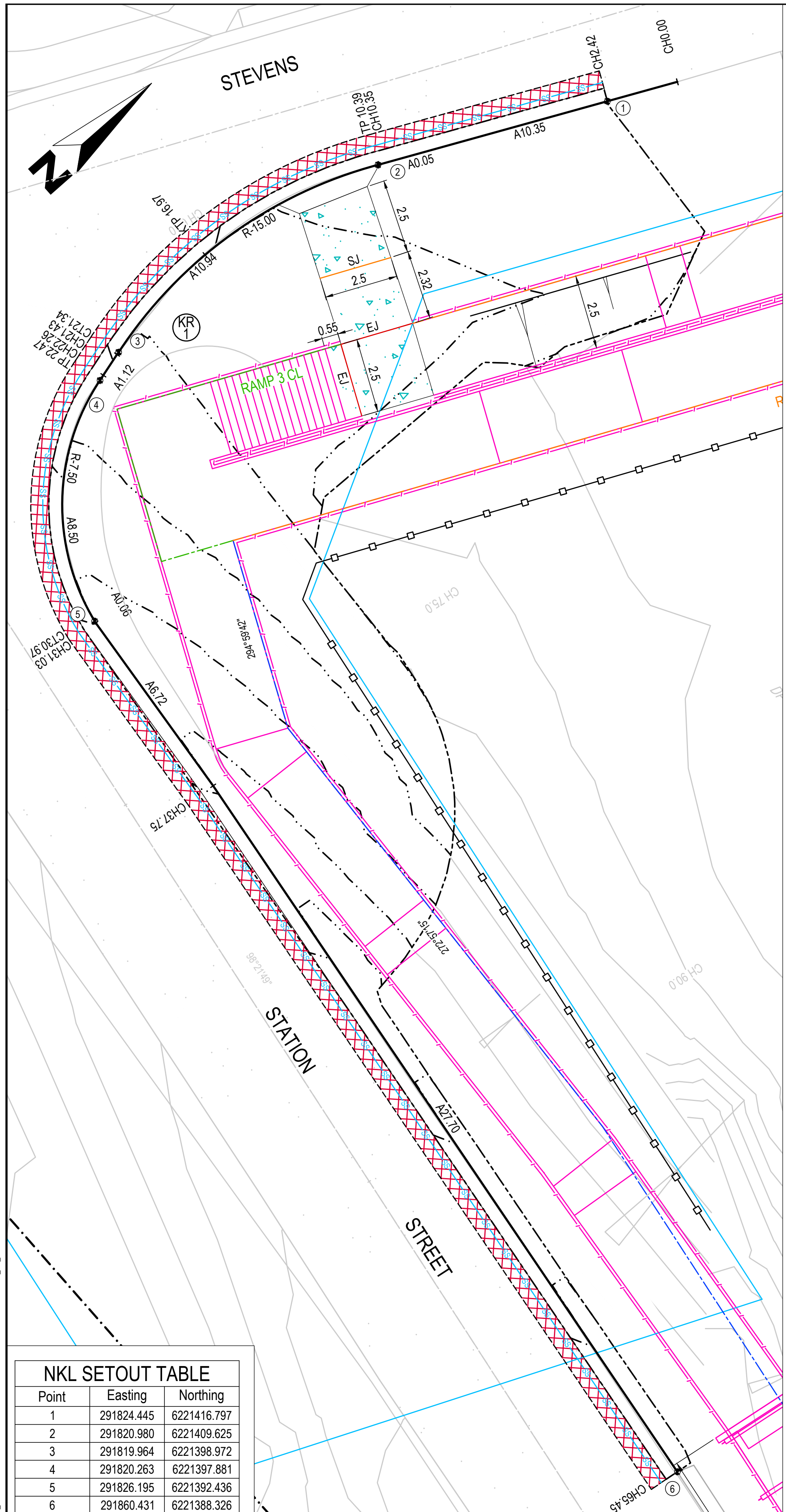
DRAWING TITLE: SITE SECTIONS

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	303	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGE\SW\C17-003293-02-PED_LD_SWC-303.DWG LAST SAVED BY AIDAN BATH



NKL SETOUT TABLE		
Point	Easting	Northing
1	291824.445	6221416.797
2	291820.980	6221409.625
3	291819.964	6221398.972
4	291820.263	6221397.881
5	291826.195	6221392.436
6	291860.431	6221388.326

PLAN

SCALE 1:100

PAVEMENT JOINTING LEGEND

- EXPANSION JOINT. REFER COUNCIL STANDARD DRAWING No.WSC.D2.2
- SAWN JOINT. REFER COUNCIL STANDARD DRAWING No.WSC.D2.2

PAVEMENT DETAILS LEGEND

WEARING COURSE - 50mm AC14 (2x25mm LAYERS)
SEAL - SINGLE COAT FLUSH SEAL
BASE COURSE - 150mm DGB20
SUB BASE COURSE - 340mm CRUSHED SANDSTONE (75mm)
CBR - 4%

CONCRETE FOOTPATH AND PRAM RAMP CROSSING. 125mm THICK 25MPa WITH SL82 REINFORCING MESH (CENTRAL) ON 75mm (MIN.) OF COMPACTED ROAD SUB-BASE

PAVEMENT NOTES:

1. ADOPTED TRAFFIC LOADINGS:
- STATION STREET - $2x10^6$

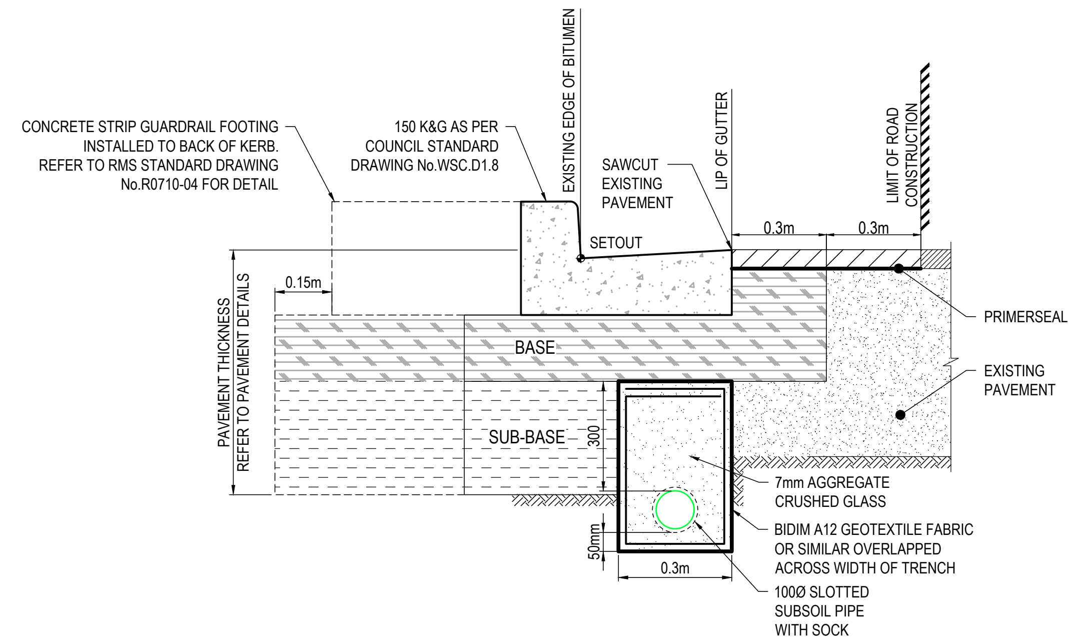
2. PAVEMENT DESIGN PREPARED BY GEOTECHNIQUE JOB No. 14305/11 DATED 7TH JUNE 2021

3. ALL PAVEMENT DESIGNS ARE SUBJECT TO GEOTECHNICAL TESTING & DESIGN DURING CONSTRUCTION

4. CONCRETE PAVEMENT & DRIVEWAY FINISH TO BE CONFIRMED BY SUPERINTENDENT OR LANDSCAPE ARCHITECT AT TIME OF CONSTRUCTION.

PAVEMENT JOINTING NOTES

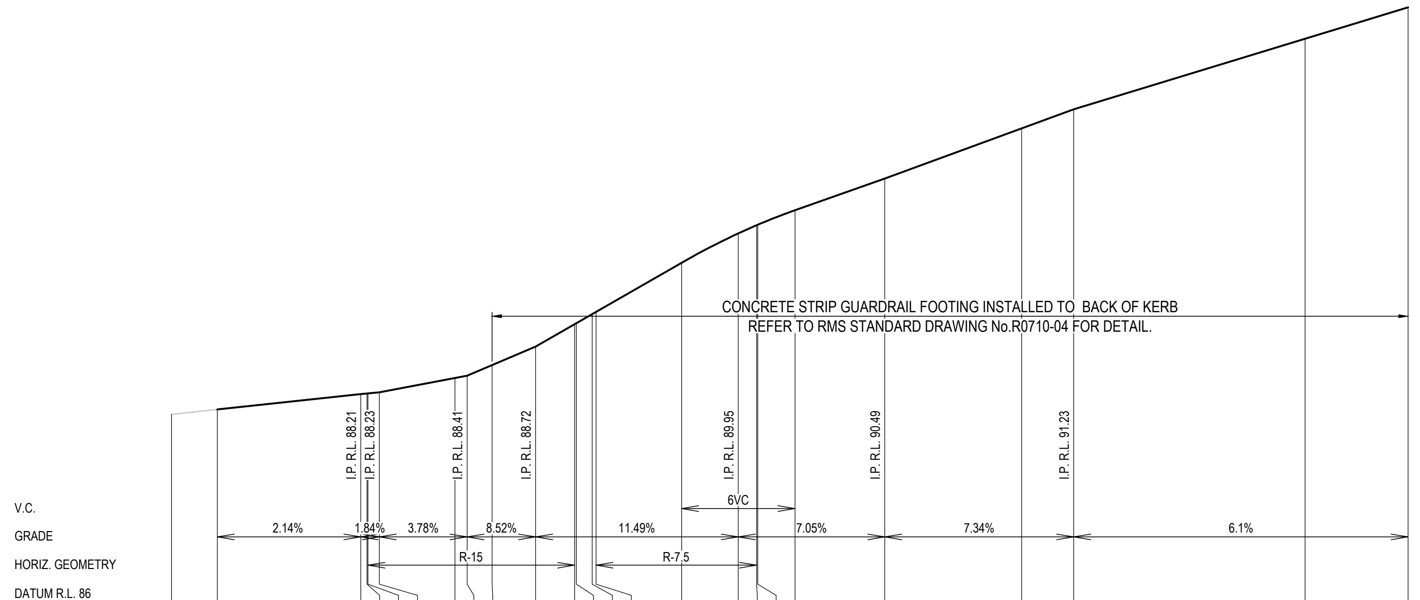
1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH AS3600(2018) AND AS4678(2002).
2. COMPRESSIVE STRENGTH (F'c) FOR CAST IN SITU CONCRETE SHALL BE A MINIMUM 25MPa AT 28 DAYS.
3. MAXIMUM CONCRETE AGGREGATE SIZE TO BE 20mm UNLESS STATED OTHERWISE.
4. NO ADMIXTURES SHALL BE USED IN CONCRETE UNLESS APPROVED IN WRITING.
5. ALL CONCRETE FORMWORK SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED AND MAINTAINED IN ACCORDANCE WITH AS3610(2018).
6. NO HOLES, CHASES OR EMBEDMENT OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE IN CONCRETE MEMBERS WITHOUT THE PRIOR WRITTEN APPROVAL OF THE ENGINEER.
7. CONDUITS, PIPES, ETC. SHALL ONLY BE LOCATED IN THE MIDDLE THIRD OF THE SLAB DEPTH. PIPES OR CONDUITS SHALL NOT BE PLACED WITHIN THE COVER TO REINFORCEMENT.
8. SIZES OF CONCRETE MEMBERS DO NOT INCLUDE THE THICKNESS OF APPLIED FINISHES.
9. REFER TO THE ARCHITECTS DRAWINGS FOR ALL SLAB FALLS AND CONFIRMATION OF SLAB STEPS.
10. CONSTRUCTION JOINTS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER.
11. SAW CUT JOINTS IN SLABS ON GROUND AS EARLY AS POSSIBLE WITHOUT CAUSING UNACCEPTABLE RAVELLING OF JOINT EDGES (NORMALLY WITHIN 24 HOURS OF CASTING SLAB). COMPLETE SAW CUTTING WITHIN 36 HOURS OF CASTING SLAB.
12. INITIATE AN APPROVED METHOD OF CURING FOR ALL CONCRETE ELEMENTS AS SOON AS PRACTICABLE AFTER THE CONCRETE HAS SET AND MAINTAIN IT FOR AT LEAST 7 DAYS.
13. CURING OF CONCRETE IS TO BE ACHIEVED BY KEEPING SURFACES CONTINUOUSLY WET FOR A PERIOD OF 3 DAYS, AND PREVENTION OF LOSS OF MOISTURE FOR A TOTAL OF 7 DAYS FOLLOWED BY A GRADUAL DRYING OUT.
14. WHEN CONCRETING DURING HOT (MORE THAN 25°) AND/OR WINDY CONDITIONS, APPLY ALIPHATIC ALCOHOL TO HORIZONTAL ELEMENTS AFTER INITIAL SET.
15. FOR CONCRETE PAVEMENT REINFORCEMENT DETAILS REFER TO CALIBRE PAVEMENT PLAN, COUNCIL SPECIFICATION, AND/OR RELEVANT LANDSCAPE ARCHITECT DRAWING(S).



PAVEMENT SAWCUT JOINT DETAIL
FOR KERB & SUBSOIL INSTALLATION

PAVEMENT TRAVERSE JOINT WITH EXISTING PAVEMENT

SCALE 1:10



W.A.E. LIP LEVEL												
DESIGN LIP LEVEL		88.05	88.21	88.22	88.22	88.23	88.38	88.41	88.52	88.72	88.95	88.96
EXISTING EOB LEVEL	88.03	88.08	88.25	88.25	88.26	88.27	88.42	88.46	88.57	88.76	89	89.01
ROAD CHAINAGE	0	2.42	10.02	10.35	10.39	11	15	15.64	16.97	19.27	21.34	21.43
CHAINAGE	0	2.42	10.02	10.35	10.39	11	15	15.64	16.97	19.27	21.34	21.43

W.A.E. LIP LEVEL												
DESIGN LIP LEVEL	89.06	89.08	89.6	89.91	90	90.01	90.16	90.49	91.03	91.23	91.98	92.31
EXISTING EOB LEVEL	89.1	89.13	89.63	89.93	90.02	90.02	90.17	90.51	91.13	91.33	92.06	92.33
ROAD CHAINAGE	22.26	22.47	27	30	30.97	31.03	33	37.75	45	47.75	60	65.45
CHAINAGE	22.26	22.47	27	30	30.97	31.03	33	37.75	45	47.75	60	65.45

KERB RETURN No.01

SCALE 1:200 (H)
SCALE 1:40 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
	AV	AB/JS	CK	EF	25/02/2021	
01	AV	LH	CK	EF	10/06/2021	ISSUED FOR CONSTRUCTION CERTIFICATE
02	AV	AB	CK	EF	01/07/2021	ISSUED FOR CONSTRUCTION CERTIFICATE
03	AV	AV	CK	EF	18/08/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
04	RT	SS	CK	EF	07/10/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
05	RT	AB	GM	SA	25/05/2023	ISSUED FOR REF APPROVAL

AMENDMENTS

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PEDESTRIAN BRIDGE\SWC\17-003293-02-PED_LD_SWC-601.DWG LAST SAVED BY:JED SWEENEY

STATUS
FOR REVIEW OF ENVIRONMENTAL FACTORS (PART 5)

AUTHORISED FOR ISSUE:
BY: SINA ARBABZADEH SIGN: Sina Arbabzadeh
MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE
0 0.1 0.2 0.3 0.4 0.5 0.6 0.7 0.8 — SCALE 1:10 (A1) / SCALE 1:20 (A3)
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0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0 — SCALE 1:200 (A1) / SCALE 1:400 (A3)

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PROJECT
STATION ST MENANGLE
PEDESTRIAN BRIDGE CROSSING

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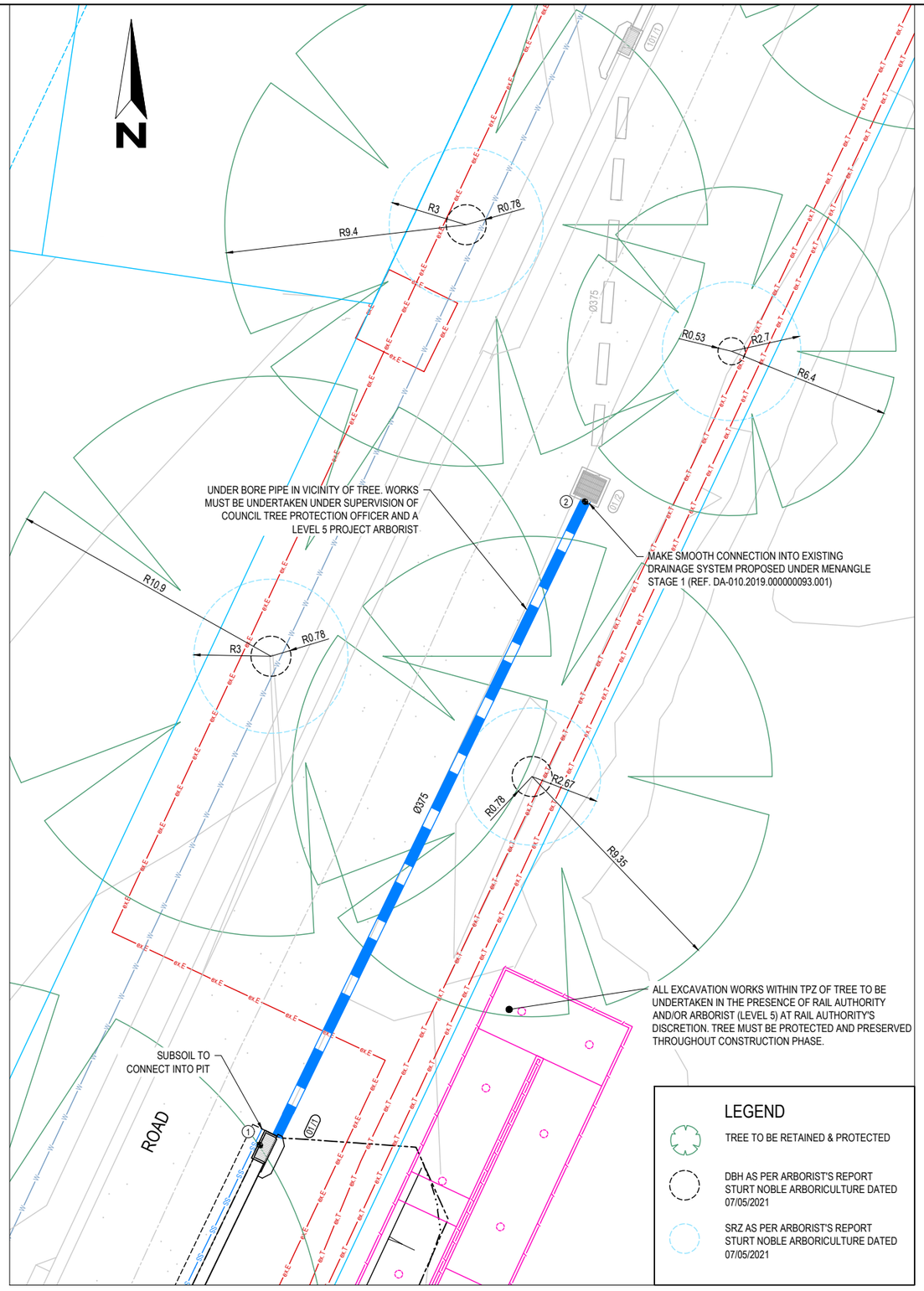
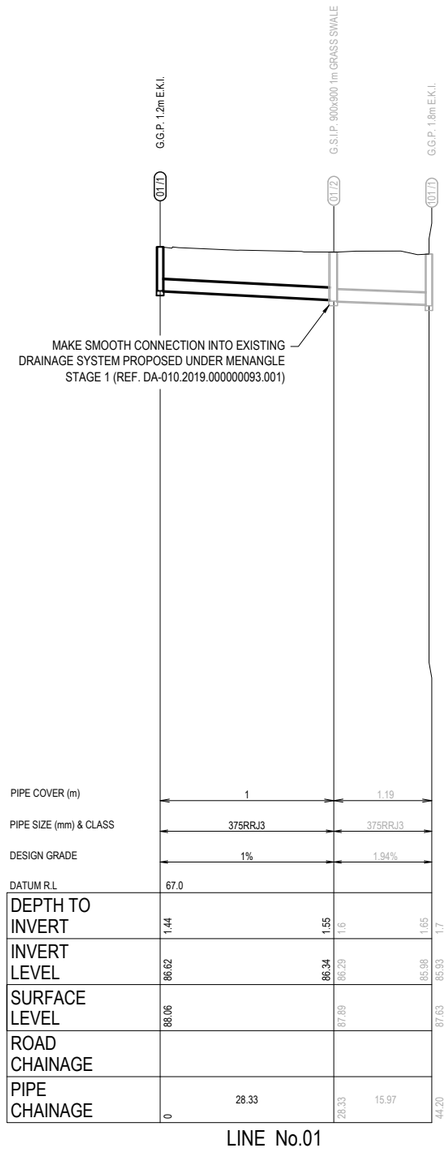
DRAWING TITLE
INTERSECTION PLAN & DETAILS

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	601	REF	05



PLAN
SCALE 1:100

DRAINAGE PIT SETOUT TABLE				
Point	Pit No.	Pit Type	Easting	Northing
1	01/1	G.G.P. 1.2m E.K.I.	284385.037	6213020.977
2	01/2	G.S.I.P. 900x900	291836.509	6221441.770
3	01/3	G.G.P. 1.8m E.K.I.	291833.898	6221449.595



PIPE COVER (m)	1	1.19	
PIPE SIZE (mm) & CLASS	375RRJ3	375RRJ3	
DESIGN GRADE	1%	1.94%	
DATUM R.L	67.0		
DEPTH TO INVERT	1.44 / 1.55	1.6 / 1.65	1.7
INVERT LEVEL	86.62 / 86.34	86.29 / 85.98	85.93
SURFACE LEVEL	88.06	87.89	87.63
ROAD CHAINAGE			
PIPE CHAINAGE	0 / 28.33	28.33 / 15.97	44.20

LINE No.01

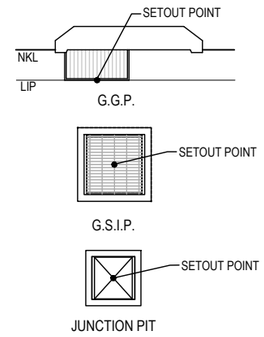
DRAINAGE LONGITUDINAL SECTION
SCALE 1:500 (H)
SCALE 1:100 (V)

NOTES:

1. RRJ3 DENOTES RUBBER RING JOINT CLASS 3 PIPE
2. ALL PVC PIPE TO BE CLASS SH.
3. PITS TO BE CONCRETE REINFORCED AS PER WOLLONDILLY SHIRE COUNCIL STD DWG STANDARD GRATED KERB INLET PIT WSC.D5.10.
4. PITS DEEPER THAN 3.0m, AND GREATER THAN 2.0m IN INTERNAL DIMSENSION ARE TO BE STRUCTURALLY DESIGNED.
5. CONCRETE 32MPa COMPRESSIVE STRENGTH AT 28 DAYS.

PIT TYPE:

1. G.G.P. - GRATED GULLY PIT
4. G.S.I.P. - GRATED SURFACE INLET PIT
5. J.P. - JUNCTION PIT
6. H.W. - HEADWALL
7. D.C. - DIRECT CONNECTION
8. S.J. - SLOPE JUNCTION
9. BEND - BEND IN LINE
10. GPT - GROSS POLLUTANT TRAP



TYPICAL PIT SETOUT DETAIL
N.T.S

AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
FIRST ISSUE	AV	AB/JS	CK	EF	25/02/2021	
01	AV	LH	CK	EF	10/06/2021	ISSUED FOR CONSTRUCTION CERTIFICATE
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04	RT	SS	CK	EF	07/10/2022	ISSUED FOR CONSTRUCTION CERTIFICATE
05	RT	AB	GM	SA	25/05/2023	ISSUED FOR REF APPROVAL

STATUS: FOR REVIEW OF ENVIRONMENTAL FACTORS (PART 5)

AUTHORISED FOR ISSUE:
BY: SINA ARBABZADEH
MEng (Civil) MIEAust CPEng NER
SIGN: Sina Arbabzadeh
DATE: 25/05/2023

SCALE
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SCALE 1:100 (A1) SCALE 1:200 (A3)
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SCALE 1:500 (A1) SCALE 1:1000 (A3)

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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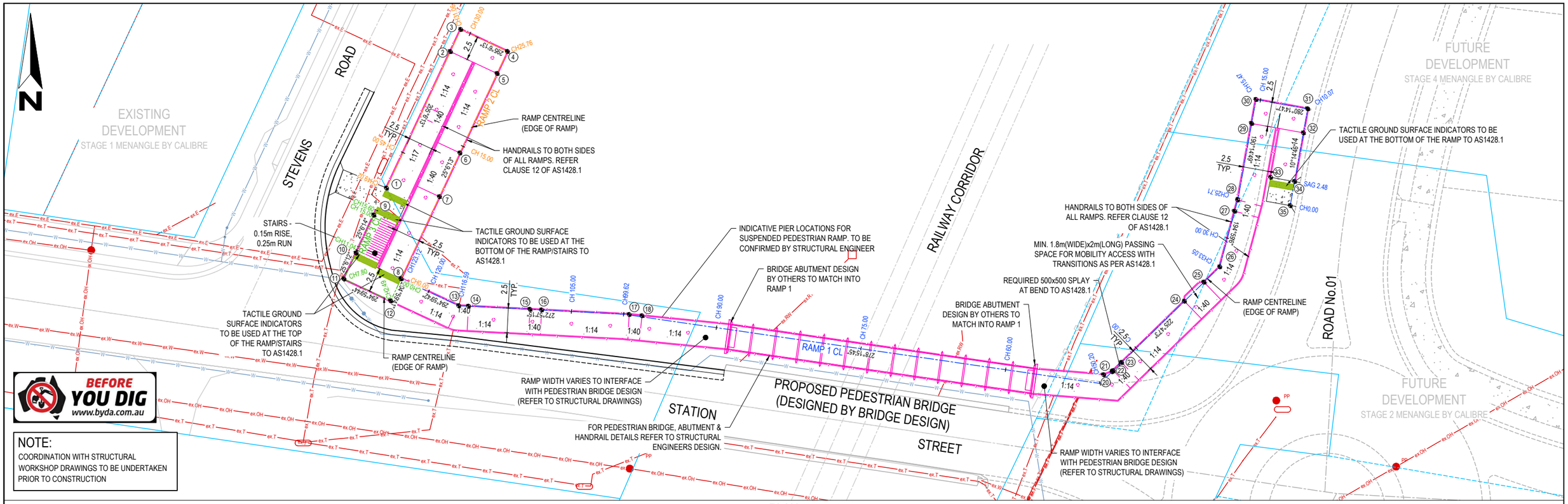
DRAWING TITLE: DRAINAGE PLAN

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	801	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - U\D06_MODEL\AUTOCAD\CIVIL\PED\STRAW\BRIDGES\WC\17-003293-02-PED_LD_SWC-801.DWG LAST SAVED BY AUDANBATH



NOTE:
COORDINATION WITH STRUCTURAL WORKSHOP DRAWINGS TO BE UNDERTAKEN PRIOR TO CONSTRUCTION

PLAN
SCALE 1:200

SETOUT TABLE		
Point	Easting	Northing
1	291825.732	6221407.000
2	291832.293	6221421.005
3	291833.354	6221423.269
4	291838.153	6221421.020
5	291837.092	6221418.756
6	291833.274	6221410.606
7	291831.172	6221406.118
8	291827.226	6221397.697
9	291824.438	6221404.237
10	291822.613	6221400.344
11	291821.364	6221397.678
12	291826.170	6221395.431
13	291833.147	6221394.936
14	291834.151	6221394.885
15	291840.466	6221394.559
16	291841.665	6221394.497
17	291850.652	6221394.033
18	291851.975	6221393.903
20	291899.381	6221387.855
21	291900.237	6221388.163
22	291900.357	6221388.280
23	291901.217	6221389.117
24	291907.668	6221395.393
25	291909.675	6221397.346
26	291911.297	6221398.924
27	291914.838	6221404.633
28	291913.133	6221405.783
29	291914.569	6221413.632
30	291914.838	6221415.107
31	291920.149	6221414.134
32	291919.885	6221412.671
33	291916.519	6221408.108
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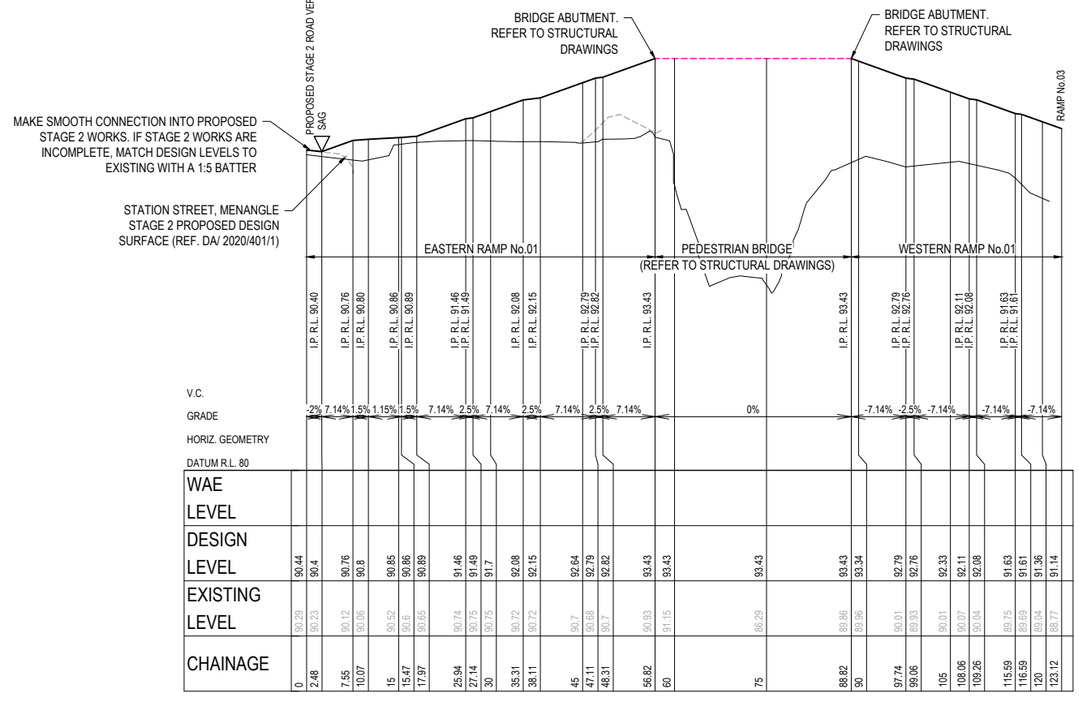
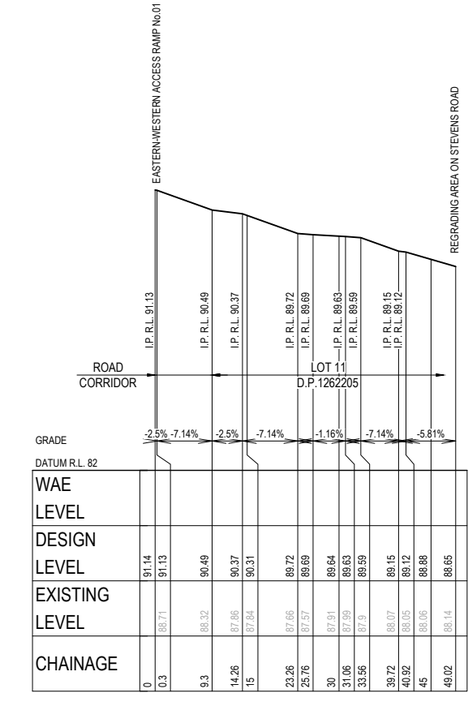
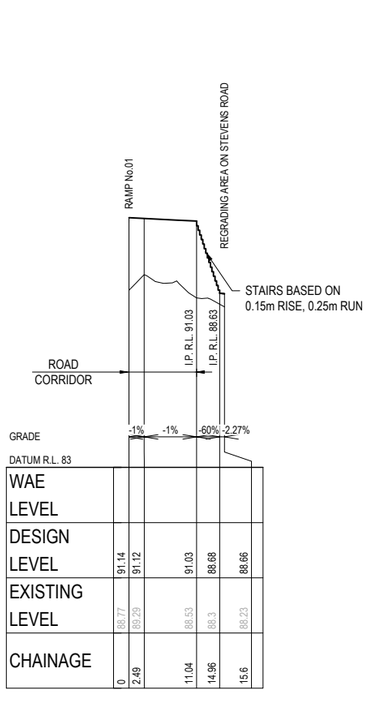


LONGITUDINAL SECTION CENTRELINE - BRIDGE No.01
SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - RAMP No.2
SCALE 1:500 (H)
SCALE 1:100 (V)



LONGITUDINAL SECTION CENTRELINE - RAMP No.3
SCALE 1:500 (H)
SCALE 1:100 (V)

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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AMENDMENTS

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MEng (Civil) MIEAust CPEng NER
DATE: 25/05/2023

SCALE
0 2.0 4.0 6.0 8.0 10.0 12.0 14.0 16.0
SCALE 1:200 (A1) SCALE 1:400 (A3)

CLIENT: mirvac

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PROJECT: STATION ST MENANGLE PEDESTRIAN BRIDGE CROSSING

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DRAWING TITLE: SETOUT PLAN

PROJECT No.	DRAWING No.	MILESTONE	REVISION
17-003293.002.PED	901	REF	05

FILE: H:\17\17-003293 - STATION ST MENANGLE - UD\06_MODEL\AUTOCAD\CIVIL\PED\BSTR\PAN BRIDGE\SW\C17-003293-02-PED_LD_SWC-901.DWG LAST SAVED BY AIDAN.BATH