

Appendix D

Engineering Services Report and Functional Layout Plans

EDQ Oonoonba PDA. - Stage 1

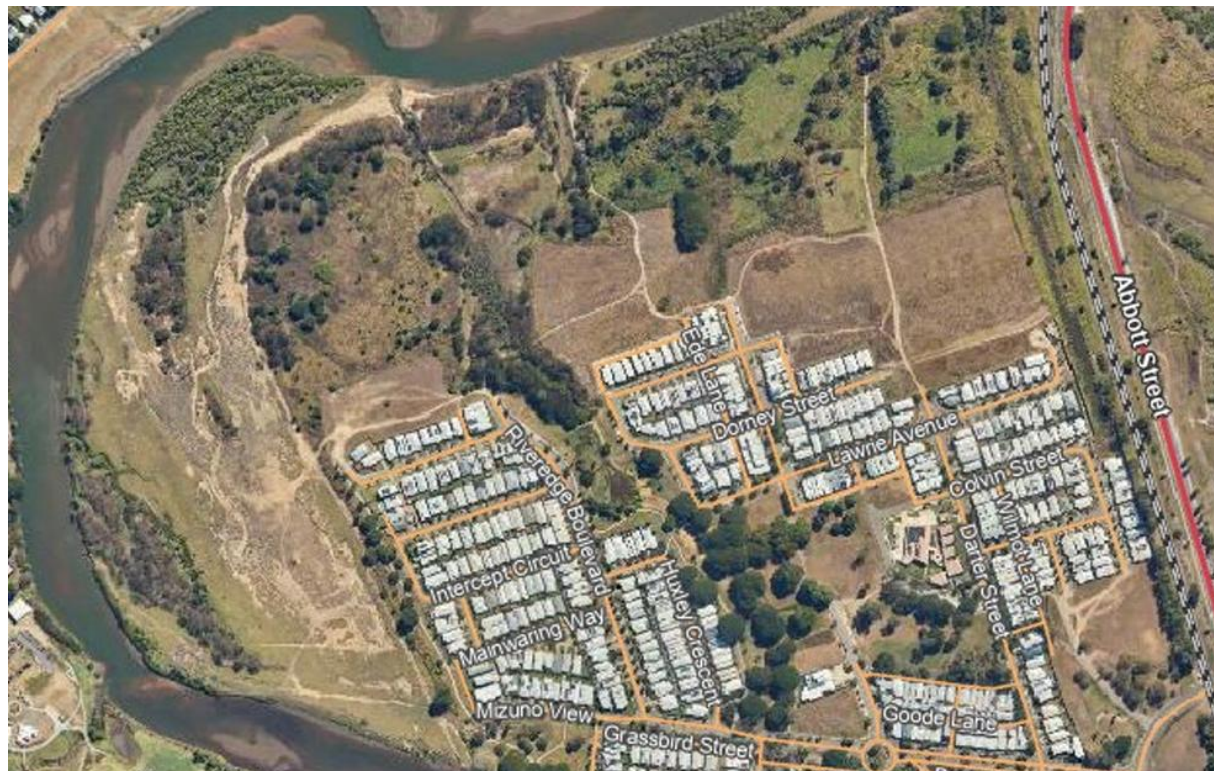
Engineering Services Report (ESR)

Prepared for:
Economic Development Queensland EDQ)

Date: 19 May 2026

Prepared by: Gary Jensen
Senior Project Manager

Project/File:
304702009



Revision Schedule

Revision No.	Date	Description	Prepared by	Quality Reviewer	Independent Reviewer	Project Manager Final Approval
0	18-May-26	Draft	Gary Jensen		Dipal Harrat	Gary Jensen

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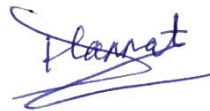
Prepared by:

Gary Jensen



Reviewed by:

Dipal Harrat



Approved by:

Gary Jensen




Table of Contents

Executive Summary	ii
1 Introduction	3
2 Site Description	3
3 Road Cross Sections	3
4 Pavements	3
5 Stormwater Drainage	3
5.1 Drainage Systems	3
5.2 Rainfall Runoff	4
5.3 Finished Allotment Levels	4
5.4 Water Sensitive Urban Design	4
6 Water Supply	4
7 Sewerage Reticulation	5
7.1 Overview	5
7.2 Demand Assessment	6
8 Landscaping	6
9 Electricity Supply	6
10 Soil Erosion and Sediment Control	7



Executive Summary

- The works site is Lot 9001 on SP306214, Lakeside Drive, Oonoonba, Townsville.
- New street cross sections are to be consistent with the existing constructed streets.
- Pavements are to comprise gravel pavement with an asphalt surface, or reinforced concrete where appropriate.
- Stormwater drainage is to comprise underground piped systems discharging to drainage swales containing bio-retention basins.
- Underground stormwater drainage caters for rainfall events up to a 2-year ARI, with runoff from the 1% AEP event contained within road reserves and drainage swales and discharged to lawful points of discharge.
- Finished allotment levels are determined by the greater of the 1% AEP flood level plus climate change plus 100 mm, or the 1% AEP flood level plus 300 mm.
- The reduced development criteria now result in the completed development having a water supply demand less than that used to design the installed infrastructure.
- The reduced development criteria now result in the completed development having a sewerage demand less than that used to design the installed infrastructure.
- Landscaping is to be provided within streets and disturbed areas, including drainage swales.
- Underground electricity supply and street lighting are to be provided to individual allotments in accordance with Ergon Energy requirements.
- Soil erosion and sediment control measures are to be designed by a suitably qualified person in accordance with the Townsville City Council Planning Scheme Policy.



1 Introduction

Stantec has prepared this Engineering Services Report for the Oonoonba PDA on behalf of Economic Development Queensland (EDQ). The report supports the Development Application (DA) and Operational Works (OPW) application for the proposed development of “The Village Estate” at Oonoonba, Townsville.

This report outlines the civil infrastructure requirements for the remaining development of “The Village” by EDQ.

Details of the infrastructure services to be constructed are shown on the infrastructure engineering drawings forming part of the approval application. These drawings have previously been submitted to EDQ as part of the DA and OPW application.

2 Site Description

The site is Lot 9001 on SP306214, located in the suburb of Oonoonba, Townsville. The site is bounded by existing residential dwellings to the south, the Ross River to the west and north, and the Queensland Rail reserve comprising duplicate tracks and Abbott Street to the east. The site naturally falls from south to north, with ground levels across the site, which has already been partially filled, varying from RL 5.4 m AHD in the west to RL 4.6 m in the east.

3 Road Cross Sections

The road hierarchy for “The Village Estate” is shown on RPS drawing 15703-14 Rev A. The cross sections adopted differ from the Townsville City Council standard sections but are consistent with those used in the existing EDQ development. The cross sections provide for the installation of services, concrete footpaths, and approved tree species to enhance residential amenity through shaded streets. Cross sections for new roadworks are to remain consistent with those used throughout the development.

4 Pavements

The detailed design drawings indicate provisional pavement depths. Pavement depths are subject to the outcome of soaked CBR testing carried out on soil samples obtained from the subgrade during construction. Road pavements are to be designed as gravel pavement with an asphaltic concrete surface, or reinforced concrete where appropriate, with a 95% reliability over a 20-year design life.

5 Stormwater Drainage

5.1 Drainage Systems

Drainage for the balance of “The Village Estate” involves the construction of underground stormwater drainage systems discharging to vegetated swales containing bio-retention basins. Piped underground drainage systems will discharge to either the western saltwater bio-retention basin or the eastern freshwater bio-retention basin, as appropriate.



5.2 Rainfall Runoff

All rainfall falling onto land within the residential portion of the development from a storm with an Average Recurrence Interval (ARI) of two (2) years (3.35% AEP) will be conveyed via underground drainage within roads and open drainage swales through bio-retention basins and parkland to lawful points of discharge. Runoff from a 1% AEP event in excess of the capacity of the 2-year ARI underground drainage system will be conveyed via surface drainage within roads and open drainage swales to lawful points of discharge.

5.3 Finished Allotment Levels

Finished allotment levels are based on 1% AEP stormwater modelling of the Ross River catchment and site undertaken by Water Engineering Partners (WEP).

Finished allotment levels are the higher of the 1% AEP flood level plus climate change plus 100 mm, or the 1% AEP flood level plus 300 mm.

5.4 Water Sensitive Urban Design

The formulation and implementation of stormwater management for the development are based on the following principles:

- Adoption of Water Sensitive Urban Design (WSUD) principles throughout the development site, including consideration of features such as preventing the concentration of flow in downstream areas and the use of bio-retention systems to improve runoff quality through the removal of nutrients.
- Management and control of water quality both during and after construction.
- Detailed erosion and sediment control plans are to be developed by the infrastructure construction contractor in accordance with acceptable design standards and implemented onsite during the construction period.

The vegetated swale bio-retention systems are important elements of the stormwater treatment train, enabling the removal of fine sediment and nutrients and providing final polishing of stormwater runoff prior to ultimate discharge to the environment.

6 Water Supply

The original external water supply infrastructure for the Ooonoonba PDA was designed and constructed for a total equivalent population (EP) of 3515. The development EP was subsequently reduced to 2524 in 2015 and has been reduced further to 1685 due to the current reduction in the number of allotments remaining to be developed.

The source of water supply to the balance of the Ooonoonba PDA is via connections to existing surrounding reticulation infrastructure as follows:

- A 300 mm diameter tee and SV in the 375 mm diameter supply main on the eastern side of the development adjacent to the railway reserve.
- 100 mm, 150 mm, and 200 mm diameter reticulation mains at the ends of existing developed streets.



EDQ Oonoonba PDA. - Stage 1 Engineering Services Report

The initial demand assessment for the overall development is contained in the “*Proposed Residential Development – The Village Oonoonba – Water and Sewerage Master Planning Report No ULD100/R01*”, prepared by UDP Consulting Engineers in October 2012, as follows:

Water infrastructure installed with the initial development was sized to cater for the ultimate development detailed in the table below:

Description	Unit	Number of Lots	EPs per Unit	Total EP
<i>Residential (Less than 200 m²)</i>	<i>Lots</i>	<i>81</i>	<i>2.0</i>	<i>162</i>
<i>Residential (200 – 299 m²)</i>	<i>Lots</i>	<i>336</i>	<i>2.4</i>	<i>806</i>
<i>Residential (300 – 399 m²)</i>	<i>Lots</i>	<i>315</i>	<i>2.6</i>	<i>819</i>
<i>Residential (400 m² or larger)</i>	<i>m²</i>	<i>252</i>	<i>2.8</i>	<i>706</i>
<i>Commercial</i>	<i>Ha</i>	<i>0.56 Ha</i>	<i>56 EP/Ha</i>	<i>31</i>
Total				2524
Max Hour Demand	<i>121.2 l/s (for original 3515 EP used for design)</i>			
Fire Flow	<i>15 l/s</i>			
Minimum HGL Max Hour demand	<i>22.0 m above finished surface level</i>			
Minimum HGL Fire flow	<i>12.0 m above finished surface level</i>			
Current Max Hr demand based on reduced overall development of 1685 EP	<i>56.17 l/s</i>			

7 Sewerage Reticulation

7.1 Overview

Sewerage reticulation within the previously developed portion of “The Village Estate” was designed to cater for the total development of the Oonoonba PDA site. The remaining development comprises a considerably reduced number of dwellings. Consequently, the existing constructed infrastructure linking to existing pump stations has adequate capacity for connection of the reduced number of allotments.

The design of the sewerage infrastructure for the balance of the land to be developed will be carried out in accordance with *The Village Oonoonba Townsville – Water Supply and Wastewater Master Planning*, dated 1 March 2016, subject to the WSA Sewerage Code of Australia WSA 02, except as modified by Townsville City Council’s CTM Code and EDQ requirements.

Minimum sewer grades are as follows:

- 150 mm diameter sewer 1:190
- 225 mm diameter sewer 1:290

No further pump stations or sewage pressure mains are required over the balance of the development due to the curtailed development footprint.



7.2 Demand Assessment

Description	Unit	Number of Lots	EPs per Unit	Total EP
<i>Residential (Less than 200 m²)</i>	<i>Lots</i>	<i>81</i>	<i>2.0</i>	<i>162</i>
<i>Residential (200 – 299 m²)</i>	<i>Lots</i>	<i>336</i>	<i>2.4</i>	<i>806</i>
<i>Residential (300 – 399 m²)</i>	<i>Lots</i>	<i>315</i>	<i>2.6</i>	<i>819</i>
<i>Residential (400 m² or larger)</i>	<i>Lots</i>	<i>252</i>	<i>2.8</i>	<i>706</i>
<i>Commercial</i>	<i>Ha</i>	<i>0.56</i>	<i>56</i>	<i>31</i>
Total				2524
Average Dry Weather Flow	6.7 l/s			
Peak Wet Weather Flow	33.6 l/s			
Effluent discharges to Council's 900 mm diameter pressure main to the Sewage Treatment Plant	Via 150 mm diameter pressure main.			
Current Average Dry Weather Flow based on reduced development of 1685 EP	4.49 l/s			

The demand assessment for the overall development is contained in the “*Proposed Residential Development – The Village Oonoonba – Water and Sewerage Master Planning Report No ULD100/R01*”, prepared by UDP Consulting Engineers in October 2012.

Sewerage infrastructure installed with the initial development was sized to cater for the ultimate development detailed in the table below.

8 Landscaping

Landscaping is to be provided in the form of revegetation of disturbed areas, tree planting within road reserves, and revegetation of drainage swales.

The overall development layout includes a network of linked pathways for pedestrians and cyclists connecting to open space and the Townsville City Council transport network.

9 Electricity Supply

Urban residential development requires underground electricity supply to allotments and street lighting to reduce the risk of damage to electrical infrastructure during cyclonic events.

Installation standards are prescribed by Ergon Energy in the Ergon Urban Residential Manual.

Transformer installations are pad-mounted. Reticulation to lots is via underground cables installed in PVC ducts in verges, terminating in a pillar servicing pairs of allotments. Street light poles are connected to the nearest pillar via an underground PVC conduit.

Street lighting is installed in accordance with the requirements of AS 1158.



10 Soil Erosion and Sediment Control

The Townsville City Council Planning Scheme Policy sets out the standards for soil erosion and sediment control measures to be implemented during the construction of infrastructure works.

Council requires soil erosion and sediment control plans to be prepared by a suitably qualified professional.





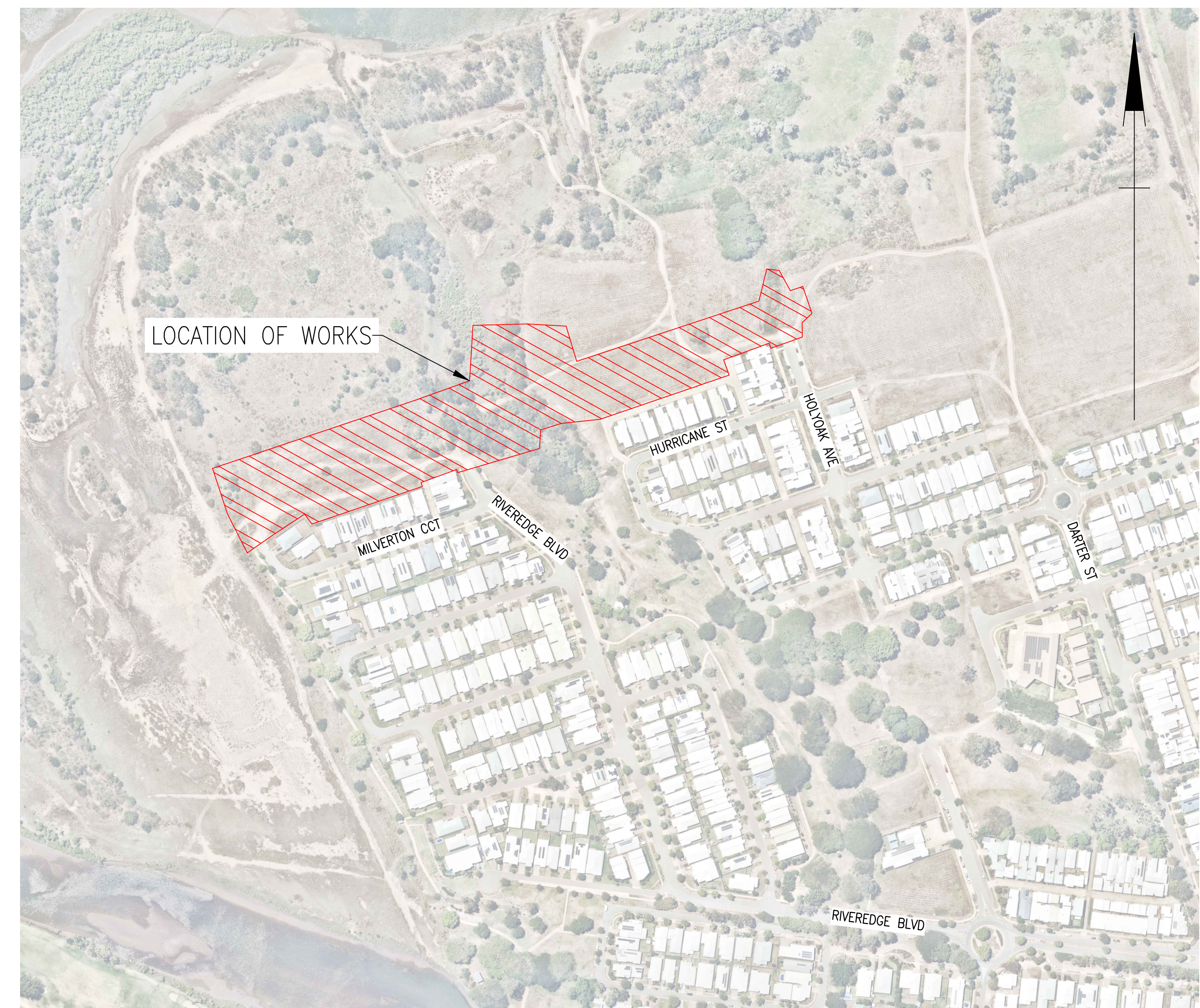
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ECONOMIC DEVELOPMENT QUEENSLAND OONOONBA PDA EAST WEST CONNECTING ROAD



Project Number: 304702009-STN-02-006

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Plotter: McGrawHill, Plot: 15/01/2024 8:27:1 AM

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SCHEDULE OF DRAWINGS

DRAWING No.	REV.	DESCRIPTION
TITLE		
304702009-STN-02-006-DR-CI-000001	P01	COVER PAGE
304702009-STN-02-006-DR-CI-000002	P01	DRAWING LIST
GENERAL		
304702009-STN-02-006-DR-CI-000010	P01	DETAILS, LEGEND AND NOTES SHEET 1 OF 2
304702009-STN-02-006-DR-CI-000011	P01	DETAILS, LEGEND AND NOTES SHEET 2 OF 2
304702009-STN-02-006-DR-CI-000012	P01	SAFETY IN DESIGN SHEET 1 OF 2
304702009-STN-02-006-DR-CI-000013	P01	SAFETY IN DESIGN SHEET 2 OF 2
GENERAL ARRANGEMENT		
304702009-STN-02-006-DR-CI-000030	P01	GENERAL ARRANGEMENT SHEET 1 OF 5
304702009-STN-02-006-DR-CI-000031	P01	GENERAL ARRANGEMENT SHEET 2 OF 5
304702009-STN-02-006-DR-CI-000032	P01	GENERAL ARRANGEMENT SHEET 3 OF 5
304702009-STN-02-006-DR-CI-000033	P01	GENERAL ARRANGEMENT SHEET 4 OF 5
304702009-STN-02-006-DR-CI-000034	P01	GENERAL ARRANGEMENT SHEET 5 OF 5
TEMPORARY ARRANGEMENT		
304702009-STN-02-006-DR-CI-000040	P01	TEMPORARY BUNDING ARRANGEMENT
DEMOLITION		
304702009-STN-02-006-DR-CI-000070	P01	DEMOLITION SHEET 1 OF 4
304702009-STN-02-006-DR-CI-000071	P01	DEMOLITION SHEET 2 OF 4
304702009-STN-02-006-DR-CI-000072	P01	DEMOLITION SHEET 3 OF 4
304702009-STN-02-006-DR-CI-000073	P01	DEMOLITION SHEET 4 OF 4
EARTHWORKS		
304702009-STN-02-006-DR-CI-000090	P01	EARTHWORKS LAYOUT PLAN SHEET 1 OF 3
304702009-STN-02-006-DR-CI-000091	P01	EARTHWORKS LAYOUT PLAN SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000092	P01	EARTHWORKS LAYOUT PLAN SHEET 3 OF 3
304702009-STN-02-006-DR-CI-000093	P01	EARTHWORKS CUTFILL PLAN SHEET 1 OF 3
304702009-STN-02-006-DR-CI-000094	P01	EARTHWORKS CUTFILL PLAN SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000095	P01	EARTHWORKS CUTFILL PLAN SHEET 3 OF 3
DETAILED SETOUT AND LONGSECTIONS		
304702009-STN-02-006-DR-CI-000100	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 1 OF 6
304702009-STN-02-006-DR-CI-000101	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 2 OF 6
304702009-STN-02-006-DR-CI-000102	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 3 OF 6
304702009-STN-02-006-DR-CI-000103	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 4 OF 6
304702009-STN-02-006-DR-CI-000104	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 5 OF 6
304702009-STN-02-006-DR-CI-000105	P01	DETAILED ROAD SETOUT LAYOUT PLAN SHEET 6 OF 6
304702009-STN-02-006-DR-CI-000106	P01	ROAD LONGITUDINAL SECTIONS SHEET 1 OF 3
304702009-STN-02-006-DR-CI-000107	P01	ROAD LONGITUDINAL SECTIONS SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000108	P01	ROAD LONGITUDINAL SECTIONS SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000109	P01	ROAD TYPICAL CROSS SECTIONS SHEET 1 OF 2
304702009-STN-02-006-DR-CI-000110	P01	ROAD TYPICAL CROSS SECTIONS SHEET 2 OF 2
LINEMARKING & SIGNS		
304702009-STN-02-006-DR-CI-000150	P01	LINEMARKING AND SIGNS SHEET 1 OF 4
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304702009-STN-02-006-DR-CI-000152	P01	LINEMARKING AND SIGNS SHEET 3 OF 4
304702009-STN-02-006-DR-CI-000153	P01	LINEMARKING AND SIGNS SHEET 4 OF 4
SEWER		
304702009-STN-02-006-DR-CI-000200	P01	SEWER LAYOUT PLAN SHEET 1 OF 4
304702009-STN-02-006-DR-CI-000201	P01	SEWER LAYOUT PLAN SHEET 2 OF 4
304702009-STN-02-006-DR-CI-000202	P01	SEWER LAYOUT PLAN SHEET 3 OF 4
304702009-STN-02-006-DR-CI-000203	P01	SEWER LAYOUT PLAN SHEET 4 OF 4
304702009-STN-02-006-DR-CI-000204	P01	SEWER LONGITUDINAL SECTIONS SHEET 1 OF 3
304702009-STN-02-006-DR-CI-000205	P01	SEWER LONGITUDINAL SECTIONS SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000206	P01	SEWER LONGITUDINAL SECTIONS SHEET 3 OF 3
WATER		
304702009-STN-02-006-DR-CI-000300	P01	WATER RETICULATION SHEET 1 OF 4
304702009-STN-02-006-DR-CI-000301	P01	WATER RETICULATION SHEET 2 OF 4
304702009-STN-02-006-DR-CI-000302	P01	WATER RETICULATION SHEET 3 OF 4
304702009-STN-02-006-DR-CI-000303	P01	WATER RETICULATION SHEET 4 OF 4
STORMWATER CATCHMENT		
304702009-STN-02-006-DR-CI-000400	P01	STORMWATER CATCHMENT
STORMWATER LAYOUT		
304702009-STN-02-006-DR-CI-000410	P01	STORMWATER LAYOUT SHEET 1 OF 4
304702009-STN-02-006-DR-CI-000411	P01	STORMWATER LAYOUT SHEET 2 OF 4
304702009-STN-02-006-DR-CI-000412	P01	STORMWATER LAYOUT SHEET 3 OF 4
304702009-STN-02-006-DR-CI-000413	P01	STORMWATER LAYOUT SHEET 4 OF 4
304702009-STN-02-006-DR-CI-000414	P01	STORMWATER BATTER CHUTE DETAILS
CULVERT DETAILS		
304702009-STN-02-006-DR-CI-000420	P01	CULVERT DETAILS
STORMWATER LONGSECTION		
304702009-STN-02-006-DR-CI-000430	P01	STORMWATER LONGSECTIONS SHEET 1 OF 3
304702009-STN-02-006-DR-CI-000431	P01	STORMWATER LONGSECTIONS SHEET 2 OF 3
304702009-STN-02-006-DR-CI-000432	P01	STORMWATER LONGSECTIONS SHEET 3 OF 3
STORMWATER CALCULATIONS		
304702009-STN-02-006-DR-CI-000440	P01	STORMWATER CALCULATIONS

STANDARD DRAWINGS

DRAWING NO.	REV.	DESCRIPTION
TOWNSVILLE CITY COUNCIL		
SD-015	F	VERGE ZONES AND TREES GENERAL TYPE SECTIONS
SD-020	D	CONCRETE KERBING
SD-025	D	KERB RAMP
SD-075	E	CONCRETE PATHWAY REINFORCED CONCRETE (FIBRE) ALTERNATIVE
SD-080	D	SUBSOIL DRAIN
SD-200	C	PRECAST GRATED KERB INLET SYSTEM & CAST INSITU STORMWATER MANHOLE
SD-205	C	STORMWATER MANHOLE DETAILS
SD-210	A	MANHOLE SLAB TOP DETAILS
CTM WATER ALLIANCE DESIGN & CONSTRUCTION CODE (CTM CODE) – SEWER		
SEQ-SEW-1106-4	A	PE NUSEWERS TYPICAL PROPERTY CONNECTION TYPE B1 TO B4 SLOPED CONNECTIONS
SEQ-SEW-1200-2	A	EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT
SEQ-SEW-1201-1	A	TYPICAL STANDARD EMBEDMENT FLEXIBLE & RIGID PIPES
SEQ-SEW-1300-1	A	MAINTENANCE HOLES ≤ DN300 SEWER TYPES P1, P2 & P3 TYPICAL PRE-CAST
SEQ-SEW-1303-1	C	MAINTENANCE HOLES SEWERS ≤ DN300 TYPICAL CHANGES IN LEVEL DETAILS
CTM WATER ALLIANCE DESIGN & CONSTRUCTION CODE (CTM CODE) – WATER		
SEQ-WAT-1102-1	B	TYPICAL MAINS CONSTRUCTION RETICULATION MAIN ARRANGEMENTS
SEQ-WAT-1105-2	B	TYPICAL CONNECTION TO EXISTING MAINS
SEQ-WAT-1200-1	A	TYPICAL SOIL CLASSIFICATION GUIDELINES AND ALLOWABLE BEARING PRESSURE FOR ANCHORS & THRUST BLOCKS
SEQ-WAT-1200-2	B	EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT
SEQ-WAT-1205-1	A	TYPICAL THRUST BLOCK DETAILS MASS CONCRETE
SEQ-WAT-1206-1	B	TYPICAL THRUST AND ANCHOR BLOCKS FOR VALVES
SEQ-WAT-1207-1	A	TYPICAL THRUST AND ANCHOR BLOCKS FOR VERTICAL BENDS
SEQ-WAT-1211-1	B	TYPICAL BURIED CROSSINGS UNDER OBSTRUCTIONS
SEQ-WAT-1212-1	A	TYPICAL BURIED CROSSINGS MAJOR ROADWAYS
SEQ-WAT-1300-1	B	TYPICAL VALVE AND HYDRANT ROAD AND PAVEMENT MARKERS
SEQ-WAT-1300-2	B	TYPICAL VALVE AND HYDRANT IDENTIFICATION MARKER POSTS
SEQ-WAT-1301-1	B	TYPICAL VALVE AND HYDRANT INSTALLATION VALVE ARRANGEMENT
SEQ-WAT-1302-1	B	TYPICAL HYDRANT INSTALLATION
SEQ-WAT-1303-1	A	TYPICAL VALVE AND HYDRANT INSTALLATION FUTURE EXTENSION INSTALLATION
DEPARTMENT OF TRANSPORT AND MAIN ROADS (DTMR)		
SD1304	O	PIPE CULVERTS – WINGWALLS, HEADWALL AND APRON FOR PIPE DIAMATER 750 TO 2400

Issue Status

S4
SUITABLE FOR
STAGE APPROVAL

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Coordinate System
MGA/20-Zone 55
Datum
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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM Dwn. RM Dsgn. GJ Chkd. BM Appd. 2026/05/15 YYYY.MM.DD

Title

DRAWING LIST

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision Drawing No.

P01 304702009-STN-02-006-DR-CI-000002

1. GENERAL NOTES:

- 1.1. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 1.2. ALL DRAWINGS LISTED ON IN THE DRAWING SCHEDULE ARE TO BE READ AS A WHOLE AND NOT IN ISOLATION.
- 1.3. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH PROJECT SPECIFICATION AND ALL RELEVANT STANDARD DRAWINGS.
- 1.4. PRIOR TO COMMENCEMENT OF WORK, FENCE OFF AND CLEARLY DELINEATE ALL AREAS WHERE WORK CANNOT BE CARRIED OUT AROUND THE SITE OF WORKS.
- 1.5. SHOULD SITE WORKS EXPOSE ANY ARCHAEOLOGICAL OR CULTURAL MATERIAL, ALL WORKS SHALL CEASE AND OFFICIALS OF THE NATIONAL PARKS AND WILDLIFE, ABORIGINAL LAND COUNCIL AND LOCAL AUTHORITY TO BE NOTIFIED.
- 1.6. ALL WORKS ARE TO COMPLY WITH THE REQUIREMENTS OF THE ENVIRONMENTAL PROTECTION ACT, 1994.
- 1.7. DISPOSAL/MOVEMENT OF MATERIALS IN AREAS OF RED IMPORTED FIRE ANTS ARE TO COMPLY WITH THE D.A.F.F REGULATIONS. REFER THE DEPARTMENTS WEBSITE: www.daff.qld.gov.au/fireants FOR THE CURRENT INFORMATION
- 1.8. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE DEPARTMENT OF ENVIRONMENT AND SCIENCE.
- 1.9. WHERE IN THIS SET OF DRAWINGS REFERENCE IS MADE TO THE ENGINEER, CONSULTING ENGINEER AND OR COUNCIL ENGINEER IT SHALL MEAN THE SUPERINTENDENT UNDER THE CONTRACT FOR THE WORKS.
- 1.10. THE CONTRACTOR IS TO VERIFY LOCATION AND LEVELS OF ALL SERVICES AND TO LIAISE WITH THE LOCAL AND SERVICE AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
- 1.11. THE CONTRACTOR IS TO INFORM EDQ AND THE SUPERINTENDENT PRIOR TO COMMENCEMENT OF WORK.
- 1.12. PRIOR TO COMMENCEMENT OF WORK, A SIGN DETAILING THE PROJECT AND CONTAINING THE NAMES AND CONTACT NAMES OF THE DEVELOPER, CONTRACTOR AND PRINCIPAL CONSULTANT SHALL BE ERECTED AND MAINTAINED IN A PROMINENT POSITION AT THE SITE TO THE SATISFACTION OF EDQ. THE SIGN SHALL REMAIN IN PLACE UNTIL COMPLETION OF THE CONTRACT.
- 1.13. INFORMATION ON THESE DRAWINGS SHALL TAKE PRECEDENCE IF THERE IS ANY DISCREPANCY AND OR CONFLICT BETWEEN THESE DRAWINGS AND STANDARD DRAWINGS. ADVISE DESIGN SERVICES IMMEDIATELY OF ANY AND ALL DISCREPANCIES.
- 1.14. LEVELS SHOWN AT ALL INTERFACES ARE TO BE CONFIRMED PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 1.15. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT AUSTRALIAN STANDARDS AND WITH THE POLICIES, BY-LAWS, CODES AND SPECIFICATIONS OF THE RELEVANT AUTHORITIES.
- 1.16. WHERE PROVIDED, THE ACCOMPANYING BILLS OF QUANTITIES SHALL ONLY SERVE AS A SUPPLEMENT FOR PRICING PURPOSES. THE CONTRACTOR SHALL ALLOW FOR ALL WORKS REQUIRED TO COMPLY WITH THE DRAWINGS. THIS INCLUDES ANY TEMPORARY, INTERMEDIATE OR PROTECTIVE WORKS REQUIRED TO FACILITATE FINAL CONSTRUCTION.
- 1.17. ELECTRONIC SETOUT DATA SUPPLIED TO ASSIST WITH CONSTRUCTION SHALL BE UTILISED IN CONJUNCTION WITH THE ENGINEERING PLANS. ANY INCONSISTENCIES BETWEEN THE ELECTRONIC DATA AND ENGINEERING DRAWINGS SHALL BE REFERRED TO THE SUPERINTENDENT IMMEDIATELY FOR RESOLUTION.

2. EXISTING FEATURES

- 2.1. UNLESS OTHERWISE SPECIFIED ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT AND WHERE RELOCATION IS REQUIRED REFER SPECIFICATION.
- 2.2. ALL WORK JOINING TO EXISTING CONSTRUCTION TO BE DONE NEATLY & TO THE SATISFACTION OF THE SUPERINTENDENT;
- 2.3. ALL BENCHMARKS TO BE LEVEL CHECKED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
- 2.4. THE LOCATION OF EXISTING SERVICES AS SHOWN ON THE PLAN IS INDICATIVE ONLY AND THE CONTRACTOR MUST ASCERTAIN THE POSITION OF ALL SERVICES (I.E. WATER, ELECTRICITY, TELECOM, GAS ETC.), BEFORE COMMENCING CONSTRUCTION.
- 2.5. LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE SATISFACTORY CONNECTIONS AND THE COSTS DEEMED INCLUDED IN THE RELEVANT SCHEDULE ITEMS;
- 2.6. IF THE LOCATION, LINE AND / OR LEVEL OF ANY EXISTING SERVICE IS NOT AS DESCRIBED ON THE DRAWINGS THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY AND PRIOR TO PROCEEDING WITH FURTHER WORK;
- 2.7. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE REPAIR OR REPLACE EXISTING SERVICES DAMAGED DURING THE WORKS TO THE SATISFACTION OF THE SUPERINTENDENT.
- 2.8. EXISTING DRIVEWAYS AFFECTED BY WORKS SHALL BE RECONSTRUCTED IN THE SAME MATERIAL AS EXISTING OR AS DIRECTED BY EDQ.
- 2.9. CLEARING AND GRUBBING AS DIRECTED, INCLUDING REMOVAL AND DISPOSAL OF CLEARED VEGETATION.

- 2.10. SERVICES SHOWN ON THESE PLANS ARE ONLY THOSE EVIDENT AT THE TIME OF SURVEY, FROM AS CONSTRUCTED SURVEY AND FROM 'DIAL BEFORE YOU DIG' SEARCHES. THERE MAY BE ADDITIONAL SERVICES WHICH ARE NOT SHOWN ON THESE DRAWINGS.

3. SAFETY IN DESIGN NOTES:

- 3.1. POTENTIAL SAFETY HAZARDS CONSIDERED BY THE DESIGNERS TO HAVE A HIGHER RISK THAN NORMAL CONSTRUCTION ACTIVITY ARE THAT IDENTIFIED WITH APPROPRIATE NOTES ON THESE DRAWINGS. IT SHOULD BE NOTED THAT DESIGNERS HAVE A LOWER LEVEL OF UNDERSTANDING OF THE RISKS INVOLVED IN CONSTRUCTION COMPARED TO THAT OF A COMPETENT CONTRACTOR. IT IS THEREFORE ESSENTIAL THAT AN ADEQUATE SAFETY PLAN IS PREPARED BY THE CONTRACTOR FOR THE WORKS. THE DESIGNERS MAY NOT BE AWARE OF ALL SAFETY RISKS AND HAZARDS INVOLVED IN THIS PROJECT AND THE ABSENCE OF COMMENT DOES NOT IMPLY THAT THERE ARE NO RISKS OR HAZARDS INVOLVED IN THIS PROJECT.
- 3.2. THE CONTRACTOR SHALL COMPLETE AND WILL SOLELY BE RESPONSIBLE FOR THE IMPLEMENTATION OF ANY NECESSARY SAFETY PLANS TO COMPLETE THE WORKS.
- 3.3. THE CONTRACTOR MUST COMPLY WITH ANY GUIDELINE ACTS OR CODE OF PRACTICE AND OTHER RELEVANT DOCUMENTS REGARDING SAFE WORK PRACTICES.
- 3.4. THE CONTRACTOR WILL HAVE A NOMINATED WH&S OFFICER FOR THE DURATION OF THE CONTRACT. THE WH&S OFFICER WILL BE RESPONSIBLE FOR ALL THE WH&S ISSUES ON THE SITE.
- 3.5. ALL PERSONS ENTERING THE SITE SHALL COMPLETE A SAFETY INDUCTION WITH THE NOMINATED WH&S OFFICER. THIS IS TO INCLUDE REFERENCE TO SAFETY IN DESIGN ISSUES RELEVANT TO THE PROJECT.
- 3.6. ALL CONSTRUCTION UNDERTAKEN BY THE CONTRACTOR IS TO COMPLY WITH THE REQUIREMENTS OF THE CURRENT EDITION OF THE WORKPLACE HEALTH AND SAFETY ACT.

4. GENERAL SERVICES:

- 4.1. ELECTRICAL AND COMMUNICATIONS CONDUIT LOCATIONS ARE SHOWN FOR INFORMATION ONLY. FOR EXACT LOCATIONS REFER TO ELECTRICAL CONSULTANTS LAYOUT PLANS. FOR WATER CONDUIT LOCATIONS REFER SERVICES DRAWINGS.
- 4.2. ALL CONDUITS ARE TO HAVE BRASS CONDUIT MARKERS INSTALLED IN THE KERB AND CHANNEL FOR THE APPROPRIATE SERVICE.
- 4.3. SERVICE AUTHORITY INFRASTRUCTURE ADJUSTMENTS ARE TO BE PERFORMED BY AUTHORIZED CONTRACTORS APPROVED BY THE RELEVANT SERVICE AUTHORITY.

5. EARTHWORKS NOTES

5.1. GENERAL

- 5.1.1. THE CONTRACTOR SHALL CLEAR AND GRUB THE WORKS AREA BEFORE COMMENCEMENT OF EARTHWORKS TO THE SATISFACTION OF THE SUPERINTENDENT.
- 5.1.2. ANY VEGETATION MARKED TO BE RETAINED MUST NOT BE DAMAGED OR REMOVED WITHOUT THE WRITTEN PERMISSION OF THE SUPERINTENDENT.
- 5.1.3. ALL EARTHWORKS QUANTITIES ARE NETT VOLUMES. CONTRACTOR TO MAKE ALLOWANCE FOR BULKING AND COMPACTION.
- 5.1.4. GEOTECHNICAL SUPERVISION OF EARTHWORKS IS TO BE CARRIED OUT IN ACCORDANCE WITH THE EARTHWORKS SPECIFICATION BY A N.A.T.A. REGISTERED GEOTECHNICAL TESTING AUTHORITY AT THE CONTRACTORS COST.
- 5.1.5. THE CONTRACTOR SHALL PROVIDE DETAILS OF ALL TESTING TO THE SUPERINTENDENT PROGRESSIVELY THROUGH THE WORKS AND NOTIFY THE SUPERINTENDENT OF ANY NON-CONFORMANCES.
- 5.1.6. ALL ALLOTMENTS TO FALL TO ROADWAY WITH A MINIMUM GRADE OF 0.5%.
- 5.1.7. EXCESS SPOIL TO BE TRANSPORTED TO A LOCATION CONFIRMED BY SUPERINTENDENT.
- 5.1.8. PRELIMINARY INVESTIGATION INTO ROAD CORRIDORS. TEST PIT EXCAVATION WITHIN NEW ROAD CARRIAGEWAYS SHALL BE UNDERTAKEN TO INVESTIGATE SUBGRADE MATERIALS. PRIOR TO IMPORT OF ANY FILL TO IDENTIFY. OPPORTUNITY TO EXCAVATE AND REPLACE POOR SUBGRADE WITH IMPORTED MATERIAL AND USE EXCAVATED MATERIAL AS FILL ON ALLOTMENTS.
- 5.1.9. FOR COMPACTION FILL DEPTHS OVER PIPES REFER TO TABLE B1 AS/NZS 3275:2007
- 5.1.10. MATERIAL OVER PIPE COMPACTED TO 95% AT MAXIMUM DRY DENSITY FOR STANDARD COMPACTION.
- 5.1.11. TRANSFORMER SITE CROSSFALL MAXIMUM OF 300mm. WHERE REQUIRED, BATTERS OF 1 IN 4 TO BE USED TO TO TIE BACK TO FSL.
- 5.1.12. MINIMUM FILL OVER PIPE INCLUDES MATERIAL BEING COMPACTED, AS MEASURED AFTER COMPACTION.

5.2. FILLING AND COMPACTION

- 5.2.1. FILLING IS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND AS3798, APPENDIX B, LEVEL 1.

- 5.2.2. PLACE FILL IN LAYERS OF LOOSE AGGREGATES OR GRANULAR MATERIAL THICKNESS APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT BEING USED AND NOT GREATER THAN 200mm. COMPACT EACH FILLING LAYER TO THE MINIMUM DRY DENSITY SPECIFIED. THE MOISTURE CONTENT OF FILL MATERIAL SHOULD BE MAINTAINED WITHIN THE RANGE OF -1% TO +2% OF THE OPTIMUM MOISTURE CONTENT.
- 5.2.3. ALL FILLING MATERIAL MUST BE APPROVED BY THE CONTRACTOR'S GEOTECHNICAL ENGINEER PRIOR TO ITS INCORPORATION INTO THE WORKS.
- 5.2.4. FILL SHALL BE PLACED AND COMPACTED TO THE FOLLOWING STANDARDS:
(I) COHESIVE MATERIALS:- ALLOTMENT FILL SHALL ACHIEVE A MINIMUM DRY DENSITY RATIO (M.D.D.R.) OF 95% STANDARD. COMMERCIAL ALLOTMENT FILL SHALL ACHIEVE A 98% STANDARD. DENSITY RATIO (M.D.D.R.) ROAD EMBANKMENTS SHALL ACHIEVE THE FOLLOWING MINIMUM STANDARDS.
 - GREATER THAN OR EQUAL TO 0.3m BELOW PAVEMENT SUBGRADE: 95% STD. M.D.D.R.
 - LESS THAN 0.3m BELOW PAVEMENT SUBGRADE: 100% STD. M.D.D.R.
- (II) NON COHESIVE MATERIALS:- ALL FILL SHALL ACHIEVE A MINIMUM DENSITY INDEX RATIO OF 75%.
- (III) FILLING ON ROAD EMBANKMENT TO BE COMPACTED TO 95% STANDARD DRY DENSITY AS1289 5.1.1 AND TRIMMED TO BE FREE DRAINING. ALL ROAD EMBANKMENT FILL SHALL BE SUPERVISED BY THE CONTRACTOR'S QUALIFIED GEOTECHNICAL ENGINEER TO LEVEL 1 REQUIREMENTS IN ACCORDANCE WITH THE AS.3798-2007.
- (IV) ALL FILL UNDER ROADS SHOULD BE COMPACTED TO 100% STANDARD COMPACTION.

5.3. STRIPPING, STOCKPILE AND TOPSOIL

- 5.3.1. PRIOR TO THE COMMENCEMENT OF FILLING THE SITE IS TO BE STRIPPED - DEPTH TO BE NOTED & CONFIRMED BY CONTRACTOR. PLACEMENT OF FILL ON PREPARED AREAS SHALL NOT COMMENCE UNTIL AUTHORISED BY THE CONTRACTOR'S QUALIFIED GEOTECHNICAL ENGINEER.
- 5.3.2. EARTHWORKS SPOIL IS TO BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT;
- 5.3.3. TOPSOIL IS TO BE RE-SPREAD FROM STOCKPILE AT MIN. 100mm AND IN ACCORDANCE WITH AS3798;
- 5.3.4. SILT FENCING IS TO BE PLACED ON THE DOWNSTREAM SIDE OF ALL STOCKPILE SITES AND AN ADEQUATE CUTOFF DRAINS ARE TO BE PLACED ON THE UPSTREAM SIDE OF ALL STOCKPILE SITES;

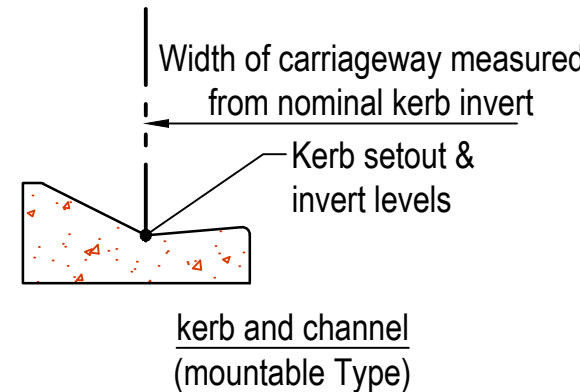
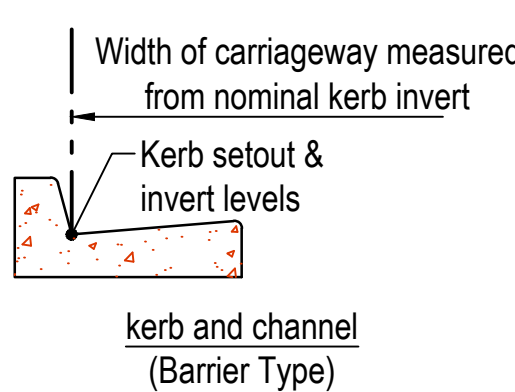
6. ROADWORKS

6.1. GENERAL:

- 6.1.1. FOR DETAILS OF CONCRETE FOOTPATHS, REFER TO TOWNSVILLE CITY COUNCIL (TCC) STANDARD DRAWING SD-075.
- 6.1.2. WARNING AND DIRECTIONAL TACTILE GROUND SURFACE INDICATORS (TGSI'S) SHALL CONFORM WITH AS/NZS 1428.4.1 AND TCC STANDARD DRAWING SD-025.

6.2. KERB \ KERB AND CHANNEL NOTES AND SET-OUT

- 6.2.1. ALL KERB RADII SHOWN ARE TO INVERT LINE.
- 6.2.2. ALL LEVELS SHOWN REFER TO:-
 - INVERT OF KERB AND CHANNEL
- 6.2.3. WHERE DIFFERENT KERB TYPES MEET, TRANSITION TO BE TAKEN OUT OVER 1.0m (MIN).
- 6.2.4. FOR RESIDENTIAL AND COMMERCIAL DRIVEWAY CROSSEOVERS, REFER TO TCC STANDARD DRAWINGS SD-030, SD-031 & SD-032.
- 6.2.5. FOR DETAILS OF KERBS AND CHANNELS REFER TO TCC STANDARD DRAWING SD-020.
- 6.2.6. THE CONTRACTOR SHALL ENSURE THAT ALL KERB AND CHANNEL GRADES SHALL NOT FALL BELOW 0.3% AT ANY POINT IRRESPECTIVE OF ROAD CENTRE LINE GRADING SHOWN ON LONGITUDINAL SECTIONS.
- 6.2.7. WHERE NEW KERB AND CHANNEL AND/OR AC MEET EXISTING SURFACES THE CONTRACTOR SHALL VERIFY THE LEVELS WITH THE SUPERINTENDENT.
- 6.2.8. SUBSOIL DRAINAGE SHALL BE CONTINUOUS WITH ADJOINING KERB AND CHANNEL WHERE CONCRETE INVERT IS CONSTRUCTED. REFER TO TCC STANDARD DRAWING SD-080.
- 6.2.9. FOR KERB / KERB AND CHANNEL SETOUT REFER:



7. PAVEMENT

- 7.1. ALL PAVEMENT DEPTHS SHALL BE CONFIRMED BY SUBGRADE TESTING PRIOR TO CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATION. IN-SITU DCP SAMPLES TO USE DTMR METHOD Q114B.
- 7.2. WHERE STENCIL PRINT/STAMPED AC FINISH IS TO BE CONSTRUCTED, USE AN ADDITIONAL 10mm DENSE GRADED AC ON TOP OF THE SPECIFIED AC SURFACING DEPTH AND SUB-BASE ADJUSTED TO MAINTAIN OVERALL PAVEMENT THICKNESS.
- 7.3. FINAL SURFACING DESIGN TO BE PROVIDED FOR APPROVAL BY THE SUPERINTENDENT. DESIGNS NOMINATED ON THE PROJECT DRAWINGS TO BE ADJUSTED TO SUIT SITE CONDITIONS.
- 7.4. ARCHITECTURAL FINISHES TO VEHICULAR PAVEMENTS SHALL NOT COMPROMISE THE NOMINATED AGGREGATE SIZE, LIMIT THE EFFECTIVENESS OF LINEMARKING OR COMPROMISE SKID RESISTANCE. FULL DEPTH COLOUR TREATMENTS AND BROOM FINISHES ARE GENERALLY ACCEPTABLE. ANY OTHER TREATMENTS MUST BE APPROVED BY THE SUPERINTENDENT PRIOR TO USE.
- 7.5. ACCESS POINTS SHALL BE PROVIDED TO BLIND ENDS OF 100mm DIA. SUBSURFACE DRAINAGE PIPES IN ACCORDANCE WITH TCC STANDARD DRAWING NO SD-080.
- 7.6. THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO THE FOLLOWING DEPTHS:
 - IN CUT AREAS - LOCAL AUTHORITY MINIMUM BOX PAVEMENT BOX DEPTH
 - IN FILL AREAS - PROPOSED PAVEMENT DESIGN BOX DEPTH

8. LINEMARKING AND SIGNAGE

- 8.1. ALL ROAD SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH MUTCD STANDARD AS4049.1 AND AS1742 "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES".
- 8.2. ALL LINEMARKING TO BE WHITE UNLESS NOTED OTHERWISE;
- 8.3. ALL SIGNS ARE TO BE SIZE "A" UNLESS NOTED OTHERWISE;
- 8.4. TRAFFIC SIGN INSTALLATION TO BE IN ACCORDANCE WITH TCC STANDARD DRAWING SD-060.
- 8.5. SIGNS LOCATED IN MEDIANS TO BE INSTALLED USING LOC SOCKET OR APPROVED EQUIVALENT.
- 8.6. STREET NAME SIGN LOCATIONS TO BE IN ACCORDANCE WITH TCC STANDARD DRAWING SD-065.
- 8.7. DIMENSIONS TO LINEMARKING ARE MEASURED FROM THE NOMINAL KERB AND CHANNEL INVERT AND OR FROM NOMINAL KERB FACE OF ISLANDS AND MEDIANS;
- 8.8. INSTALL OR REINSTATE VALVE AND HYDRANT IDENTIFICATION MARKERS IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE - STANDARD DRAWING SEQ-WAT-1300-1
- 8.9. ENSURE THAT SIGNAGE HAS CLEAR SIGHT DISTANCE, OTHERWISE ADJUST LOCATION ACCORDINGLY.
- 8.10. SUPERSEDED LINEMARKING AND SIGNAGE TO BE REMOVED;
- 8.11. RAISED REFLECTORISED PAVEMENT MARKERS ARE TO BE PROVIDED TO ALL BARRIER AND MEDIAN LINEMARKING IN ACCORDANCE WITH AUS. STD. 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'.
- 8.12. GENERALLY LINES SHALL BE MARKED IN THE FOLLOWING MATERIALS:
 - CONTINUITY LINES, INTERSECTION DIRECTION ARROWS AND TRANSVERSE MARKINGS ACROSS INTERSECTIONS THERMOPLASTIC.
 - ALL OTHER TRANSVERSE MARKINGS (EXCEPT CHEVRON MARKINGS) PAINTED WITH ANTI-SKID TREATMENT
 - ALL OTHER LINEMARKING PAINTED.

9. TRAFFIC MANAGEMENT

- 9.1. ANY WORKS UNDERTAKEN IN THE VICINITY OF PUBLIC ROADS MUST BE APPROPRIATELY SIGNED, LIT AND BARRICADED TO ENSURE THE SAFETY OF THE PEDESTRIAN AND VEHICULAR TRAFFIC IN THEIR VICINITY.
- 9.2. WORKS WILL BE SO ORDERED TO ENSURE THAT PUBLIC ACCESS ALONG THE ROADS IS MAINTAINED AT ALL TIMES TO THE SATISFACTION OF EDQ.
- 9.3. WHERE REQUIRED, BEFORE COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL OBTAIN THE REGULATORY AUTHORITIES APPROVAL AND OPERATING REQUIREMENT FOR THE TRUCK ROUTES TO BE USED BY ALL VEHICLES ASSOCIATED WITH THE CIVIL WORKS. APPROPRIATE CLEANSING DEVICES SHALL BE INSTALLED ON SITE TO ENSURE THERE IS NO ADVERSE IMPACT FROM VEHICLES ALONG THESE ROUTES.

Issue Status

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

Title

DETAILS, LEGENDS AND NOTES
SHEET 1 OF 2

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

Revision

P01

Drawing No.

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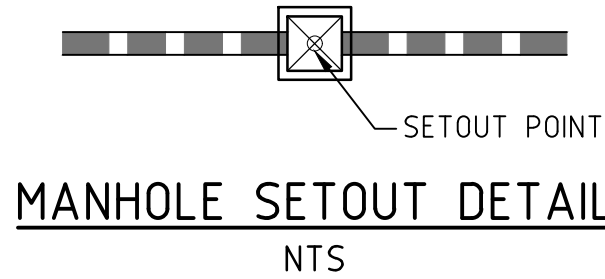
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9.4. STORMWATER

- 9.4.1. STORMWATER STRUCTURES AND CONNECTIONS ARE TO BE LOCATED ON THE LONG SECTION. ADJUSTMENTS TO THE DESIGN LAYOUT WHERE REQUIRED TO SUIT ACTUAL AS-CONSTRUCTED GEOMETRY SHALL REQUIRE THE APPROVAL OF THE SUPERINTENDENT.

9.5. STRUCTURES

- 9.5.1. ALL DRAINAGE STRUCTURES ARE TO HAVE HALF HEIGHT BENCHING AS PER QUDM SECTION S.21.8.
- 9.5.2. ALL GULLIES ARE TO BE LIP IN LINE GRATED GULLY UNLESS SHOWN OTHERWISE. REFER TOWNSVILLE CITY COUNCIL STANDARD DRAWINGS FOR DETAILS.
- 9.5.3. ALL DRAINAGE STRUCTURES WITHIN ROAD RESERVE AND FRONT OF LOTS TO HAVE CLASS D (TRAFFICABLE) COVERS / GRATES & FRAMES UNLESS NOTED OTHERWISE.
- 9.5.4. FINAL PIT LOCATION AND ORIENTATION TO BE CONFIRMED ON SITE BY THE SUPERINTENDENT;
- 9.5.5. FOR STORMWATER PIT SETOUT LOCATIONS REFER BELOW.



9.6. PIPES

- 9.6.1. ALL REINFORCED CONCRETE PIPES TO COMPLY WITH A.S. 4139-2003.
- 9.6.2. ALL REINFORCED CONCRETE BOX CULVERTS AND LINK SLABS TO COMPLY WITH A.S. 1597.1-2010 AND A.S. 1597.2.2
- 9.6.3. ALL REINFORCED CONCRETE PIPES ARE TO BE RCP CLASS 4 UNLESS NOTED OTHERWISE.
- 9.6.4. PIPES SHALL BE BEDDED IN ACCORDANCE WITH AS3725-H2/HS2.
- 9.6.5. ALL REINFORCED CONCRETE PIPES TO BE FLUSH JOINTED (FJ)
- 9.6.6. uPVC PIPES SHALL BE CLASS SNG UNLESS NOTED OTHERWISE.
- 9.6.7. RCP AND FRC PIPES SHALL BE CLASS 4 UNLESS NOTED OTHERWISE.
- 9.6.8. WHERE ROOF WATER DRAINS AND SEWER MAINS ARE TO BE CONSTRUCTED PARALLEL TO EACH OTHER, THE ROOF WATER DRAINAGE CONNECTION SHALL EXTEND 1.00 BEYOND THE SEWER MAIN.
- 9.6.9. MINIMUM COVER TO ROOF WATER PIPES TO BE 450mm EXCEPT WHERE LESS COVER IS NECESSARY TO DISCHARGE TO STREET KERB AND CHANNEL.
- 9.6.10. ROOF WATER DRAINAGE SYSTEMS SHALL DISCHARGE INTO A GULLY OR STORMWATER MANHOLE WHEREVER POSSIBLE.
- 9.6.11. ROOF WATER CONNECTION POINTS SHALL BE IDENTIFIED BY A 100 x 100 WHITE HW POST MARKED AS "ROOF WATER DRAINAGE".

9.7. TRENCHES

- 9.7.1. TRENCH EXCAVATIONS FOR DRAINAGE SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- 9.7.2. ALL TRENCHES SHALL BE BACKFILLED IN LAYERS OF LOOSE AGGREGATES OR GRANULAR MATERIAL THICKNESS APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT BEING USED AND NOT GREATER THAN 250mm.

9.8. SCOUR PROTECTION

- 9.8.1. GEOTEXTILE TO BE CONSTRUCTED OUT OF WATER PERMEABLE MATERIAL USUALLY SYNTHETIC MATERIAL SUCH AS POLYPROPYLENE. TO BE USED AS PART OF EROSION AND SEDIMENT CONTROL METHOD IN CONSTRUCTION AND STORMWATER MANAGEMENT SITUATIONS TO TRAP OR PREVENT CLOGGING OF AGGREGATES BY SOIL/CLAY/SILT PARTICLES;
- 9.8.2. GEOTEXTILE MUST BE OF SUFFICIENT STRENGTH/DURABILITY TO WITHSTAND BREAKAGE FROM WATER FLOW, SEDIMENT BUILDUP, AND EXPOSURE TO SUNLIGHT;
- 9.8.3. CONSULT WITH MANUFACTURER OF GEOTEXTILE TO VERIFY THAT IT CAN PERFORM THE FUNCTION THAT IS REQUIRED OF IT;
- 9.8.4. IF SLOPE OF CHANNEL / TABLE DRAIN IS BETWEEN 1:1 AND 1:10 , EXCAVATE OUT TO A DEPTH OF 300mm WHERE THE ROCK CHECK DAMS ARE GOING TO BE EMBEDDED;
- 9.8.5. LAY DOWN GEOTEXTILE OVER THE WHOLE AREA THE ROCK CHECK DAMS IS TO BE CONSTRUCTED UPON;

10. OPEN DRAINS

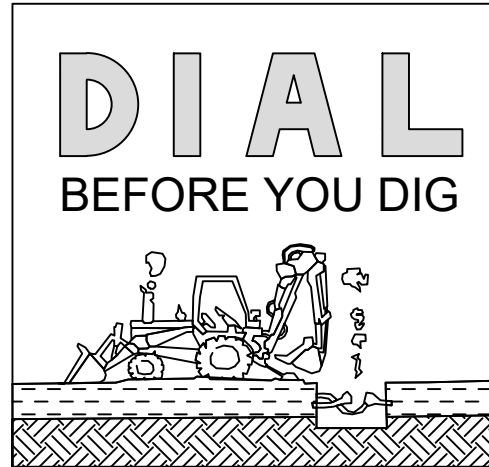
- 10.1. SWALE DRAINS ARE TO BE GRADED EVENLY BETWEEN PROVIDED INVERT LEVELS.
- 10.2. UNLESS NOTED OTHERWISE, DRAINS TO BE TURFED.

12. COMPACTION

- 12.1. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TECHNIQUES OVER ALL STORMWATER PIPES TO BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS;

13. CONCRETE NOTES:

- 13.1. NON-VEHICULAR PATHS ONLY MAY USE DANLEY 'EXPANDA' JOINT SYSTEMS OR EQUIVALENT.
- 13.2. GRANULAR SUB-BASE UNDER CONCRETE TO BE CRUSHED ROCK, ROAD BASE OR APPROVED ALTERNATIVE (CBR15 MIN.) FOR VEHICLE PAVEMENTS. 'CRUSHER DUST' TO BE USED UNDER PATHS AND NON TRAFFICABLE CONCRETE.
- 13.3. GRANULAR SUB-BASE SHALL BE COMPACTED AS SPECIFIED, TO A UNIFORMLY SMOOTH, FLAT SURFACE TO THE SATISFACTION OF THE SUPERINTENDENT PRIOR TO CONCRETE PLACEMENT.
- 13.4. ARCHITECTURAL FINISHES TO VEHICULAR PAVEMENT SHALL NOT COMPROMISE THE NOMINATED AGGREGATE SIZE, LIMIT THE EFFECTIVENESS OF LINEMARKING OR COMPROMISE SKID RESISTANCE. FULL DEPTH COLOUR TREATMENTS AND BROOM FINISHES ARE GENERALLY ACCEPTABLE. ANY OTHER TREATMENTS MUST BE APPROVED PRIOR TO USE, APPROVED BY THE SUPERINTENDENT.
- 13.5. ALL SERVICE COVERS WITHIN SHARED / BICYCLE PAVEMENTS TO BE INFILL TYPE, WHERE POSSIBLE, TO MINIMISE SLIP HAZARD
- 13.6. FIXED INTERNAL PENETRATIONS AND EDGES ABUTTING STRUCTURES TO BE ISOLATED WITH A 10mm FLEXIBLE (ABLEFLEX) JOINT. VALVE COVERS AND OTHER 'FLOATING' SERVICES MAY BE CAST DIRECTLY INTO THE SLAB.
- 13.7. ALL INTERNAL CORNERS AND PENETRATIONS REQUIRE 2X PARALLEL N12 TRIMMERS (900mm LONG) ACROSS EACH CORNER TO CONTROL CRACKING, UNLESS ALIGNED WITH AN APPROPRIATE FORMED OR INDUCED JOINT.
- 13.8. CONCRETE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH AS3600.
- 13.9. SURFACE SHALL BE TREATED WITH A MOISTURE EVAPORATION RETARDANT (ALIPHATIC ALCOHOL) AFTER SCREEDING AND PRIOR TO FLOATING.
- 13.10. AN ADDITIONAL CURING COMPOUND MUST BE APPLIED OVER FINISHED WORKS. THE PRODUCT MUST BE APPROPRIATE FOR THE NOMINATED ARCHITECTURAL FINISH AND APPLIED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS
- 13.11. LMC SUB-BASE TO BE CURED BY THE APPLICATION OF A WAX EMULSION HYDROCARBON RESIN.
- 13.12. CONCRETE CUTTING SHALL BE UNDERTAKEN WITHIN 8 HOURS OF PLACEMENT. A SOFF-CUT SAW IS RECOMMENDED TO ENSURE CORRECT DEPTH OF CUTS, MINIMISE SPALLING AT ARRISES AND PERMIT CUTTING WITHIN THE APPROPRIATE TIME.
- 13.13. FINISHED SURFACE SHALL NOT BE TRAFFICKED EARLIER THAN 10 DAYS AFTER PLACEMENT.



ENERGY SERVICE PROVIDERS



NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

TELECOMMUNICATIONS SERVICE PROVIDERS

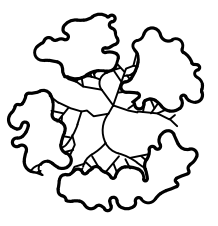


NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

SERVICE LOCATIONS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF SERVICES PRIOR TO CONSTRUCTION. ALSO TO OBTAIN THE REQUIRED APPROVALS AND PERMITS.

PLEASE CONTACT THE SCRC'S ARBORIST PRIOR TO ANY CONSTRUCTION FOR ADVICE ON TREE ROOT PROTECTION IN THE VICINITY OF THE WORKS TO BE CARRIED OUT.



SERVICES LEGEND

	Surveyed telecommunications
	BYDA telecommunications
	BYDA Optical fibre
	Telecommunications pit
	Surveyed above ground electrical
	Surveyed below ground electrical
	BYDA above ground electrical
	BYDA below ground electrical
	Electrical pillar
	Electrical pit
	Electrical power pole
	Electrical light pole
	Surveyed water
	BYDA water
	Water fire hydrant
	Water valve
	Irrigation valve
	Water enveloper pipe
	Surveyed stormwater
	BYDA stormwater
	Stormwater manhole
	Surveyed sewerage
	BYDA sewerage
	Sewerage manhole
5x100 (600mm)	Number of conduits, size of conduit and measures depth of conduit to obvert
(Existing 70mm) to top of spindle	Approx depth to top of spindle from the existing surface (Valve cover)
	location where pot holing has been undertaken
40 steel 0.56m BNS 0.568m BDS	BNS = Below natural surface BDS = Below design surface

DEMOLITION LEGEND

	Remove pavement
	Remove gravel
	Kerb and channel, Lighting, Signal etc
	Trees, signs, pits, light poles, headwalls etc
	Relocation of signs, light poles, etc

DESIGN LEGEND

	Top of batter
	Bottom of batter
	New stormwater pipe
	New on-grade inlet pit
	New sag inlet pit
	New stormwater pit
	New stormwater headwall
	New underground electrical
	New telecommunications
	New sewer
	New sewer manhole
	New water
	New water valve
	New fire hydrant
	New/relocated sign
	Standard concrete pathway/batter chute
	New kerb ramp
	New laneway
	Temporary Bund

PAVEMENT MARKING LEGEND

LL1	= Single Broken Lane Line
EL1	= Edge Line
CL1	= Continuity Line
OL1	= Outline Marking
GW	= Giveway Line
BL2	= Double Two-Way Barrier Line

ABBREVIATIONS TABLE

DESCRIPTION	ABBREVIATION
ECONOMIC DEVELOPMENT QUEENSLAND	EDQ
PROPOSED	PR
EXISTING	EX
ELECTRICITY	ELEC
STORMWATER	SWD
WATER	WAT
SEWER	SEW
TELSTRA	TEL
NON DRINKING WATER	NDW
COMMUNICATION	COMMS
STANDARD	STD.
DRAWING	DWG.
INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA QUEENSLAND	I.P.W.E.A.Q
PROPERTY	RP
BOUNDARY	BDY
DEPARTMENT OF TRANSPORT AND MAIN ROADS	D.T.M.R.
URBAN UTILITIES	U.U.
EXISTING SURFACE LEVEL	E.S.L
FINISHED SURFACE LEVEL	F.S.L
REDUCED LEVEL	R.L
FINISHED LEVEL	F.L
GARAGE FLOOR LEVEL	G.L
FINISHED PAVEMENT LEVEL	P.L
LIP LEVEL OF KERB	L.L
BOTTOM OF WALL	B.O.W
TOP OF WALL	T.O.W

WARNING

SERVICES ARE NOT SHOWN

ALL CONTRACTORS ARE RESPONSIBLE FOR AVOIDING CONFLICTS WITH SERVICES AND MUST CARRY OUT CHECKS WITH ALL SERVICE AUTHORITIES BEFORE COMMENCING WORKS.

BATTER NOTE:

- ALL BATTER SLOPES AND STABILITY TO BE CONFIRMED BY GEOTECHNICAL CONSULTANTS DURING CONSTRUCTION.
- BATTERS STEEPER THAN 1 IN 4 (25%) ARE TO BE HYDROMULCHED;
- BATTERS LESS THAN 1 IN 4 (25%) TO BE MULCHED AND LANDSCAPED;
- TABLE DRAINS STEEPER THAN 1 IN 4 (25%) ARE TO BE ROCK LINED;
- TABLE DRAINS LESS THAN 1 IN 4 (25%) TO BE TURF LINED OR AS SPECIFIED BY SUPERINTENDENT.

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM GIS DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK

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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

Title

DETAILS, LEGENDS AND NOTES
SHEET 2 OF 2

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

Revision

P01

Drawing No.

304702009-STN-02-006-DR-CI-000011

RM	BM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Stantec

This report identifies potential hazards, assigns a risk rating, and records the design measures implemented to minimise risk for this specific project. Based on the control methods being implemented, a residual risk rating is consequently developed. The intent of the design control measures with respect to risk is to Eliminate, Reduce, Inform and Control. Any safety issues unresolved through design are also identified for their appropriate management.

This design report assumes that during the construction, maintenance and demolition of the development, the Principal will engage experienced and competent personnel as part of the respective tender evaluation process. Regardless of the following identified hazards, risks and control measures in the design safety analysis, it is the Head Contractor's obligation to prepare and implement site specific safe work method statements for construction activities.

The risks identified in this risk assessment are project and site specific risks. These risks are not generic or common risks associated with bridge or general construction works, rather they are risks which would not be easily recognized by a reasonably competent contractor. Other generic risks that are typical to particular construction activities are to be identified and managed by the client and/or construction contractors. In accordance with the Work Health and Safety Act 2011, the Client must provide a copy of this Safety in Design Report to the Principal Contractor.

Document No: HSEPN3-17
Issue Date: October, 2015

Issue 1
Rev B

Design Safety Review - Constructability
Page 1 of 2

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOOBA PDA
EAST WEST CONNECTING ROAD

RM	BM	GJ	BM	2026/05/15
Dwn	Dsan	Chkd	Appd	YYYY MM DD

Title

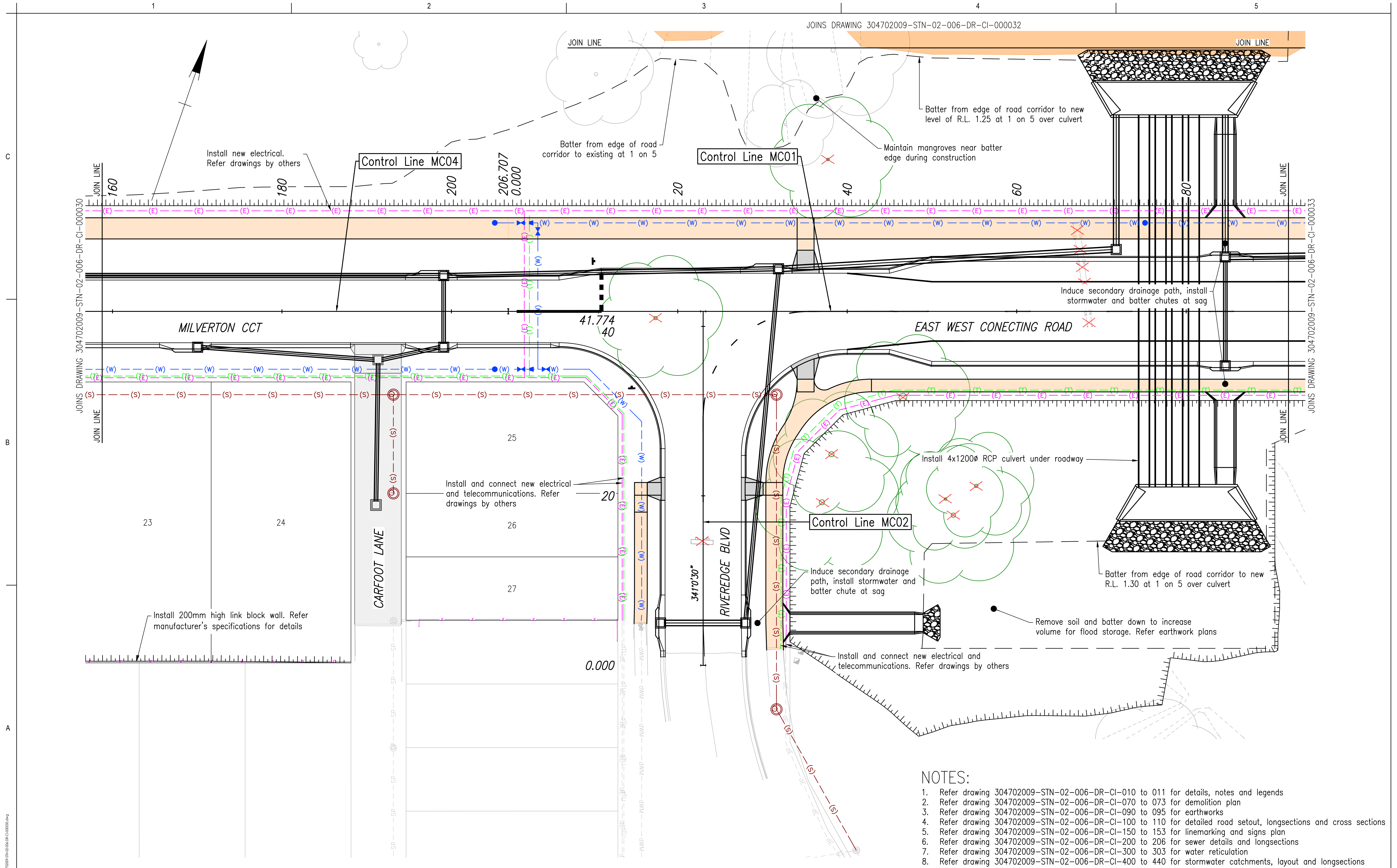
SAFETY IN DESIGN
SHEET 1 OF 2

Project No.	Auth. Ref.
304702009	BM 244

Scale at A1
AS SHOWN

Revision **P01** Drawing No. **30470200**

304702009-STN-02-006-DR-CI-000012



- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Client/Project Logo

Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Revision

P01

Drawing No.

304702009-STN-02-006-DR-CI-000031

RM

RM

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2026/05/15

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Dwn.

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Scale at A1

AS SHOWN

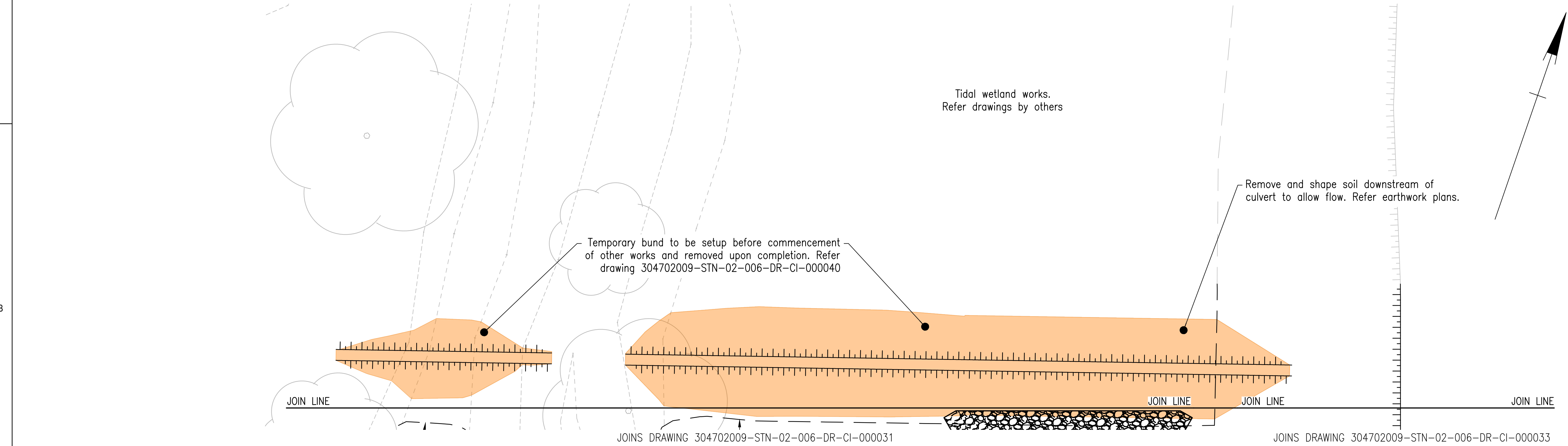
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ORIGINAL SHEET - SD A1

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1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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ORIGINAL SHEET - SCD A1

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Issued/Revision

RM BM 2026/05/15
By Appd YYYY.MM.DD

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Client/Project Logo



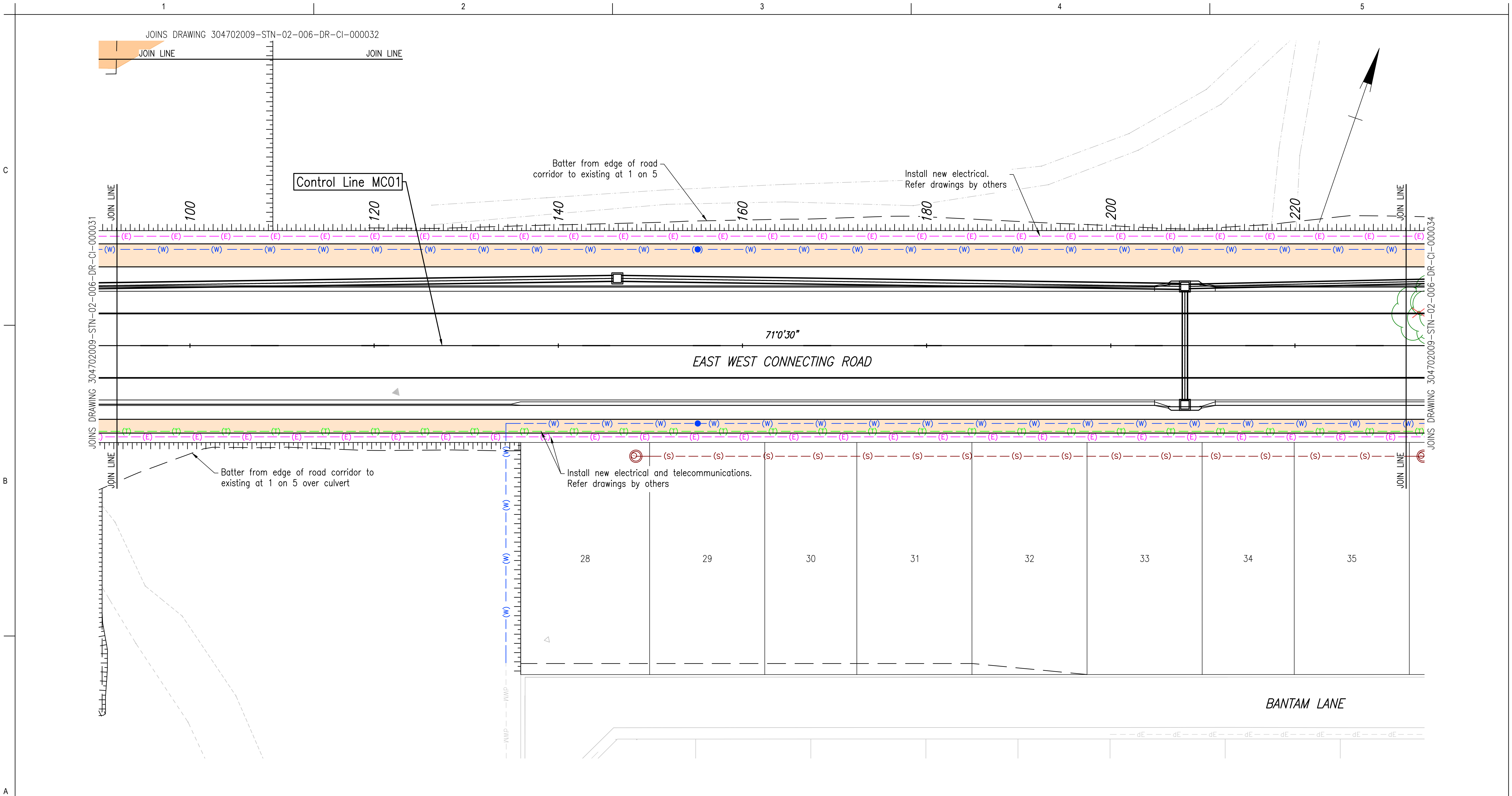
Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
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Title
GENERAL ARRANGEMENT
SHEET 3 OF 5

Project No. Auth. Ref. Scale at A1
304702009 BM 24432 AS SHOWN

Revision Drawing No.
P01 304702009-STN-02-006-DR-CI-000032



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1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
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Issued/Revision	RM	BM	2026/05/15
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Issue Status

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Client/Project Logo

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Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

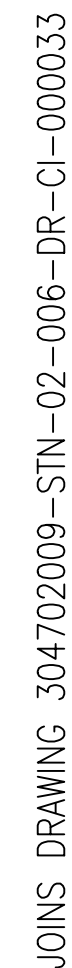
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Title
GENERAL ARRANGEMENT
SHEET 4 OF 5

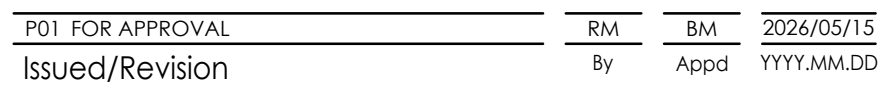
Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision P01 Drawing No. 304702009-STN-02-006-DR-CI-000033

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Plotted: McGehee, Ron Date: 15/05/2024 4:21:03 AM

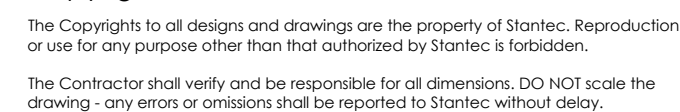


- | | | | | |
|------|-------|-------|-------|------------|
| RM | RM | GJ | BM | 2026/05/15 |
| Dwn. | Dsgn. | Chkd. | Appd. | YYYY.MM.DD |



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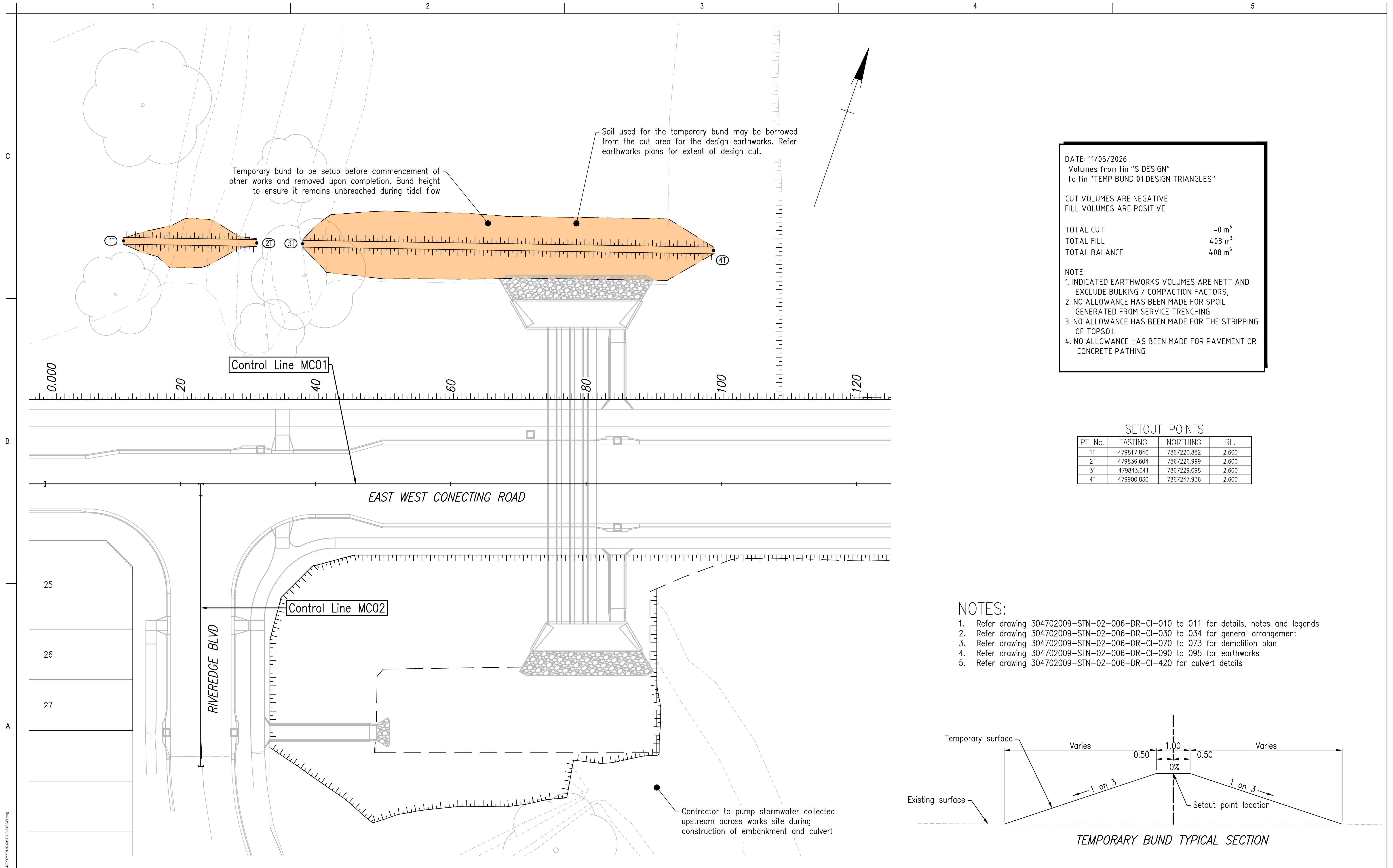


Economic
Development
Queensland

ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

Project No.	Auth. Ref.	Scale at A1
304702009	BM 24432	AS SHOWN

P01 304702009-STN-02-006-DR-CI-000034



DATE: 11/05/2026
Volumes from tin "S DESIGN"
to tin "TEMP BUND 01 DESIGN TRIANGLES"

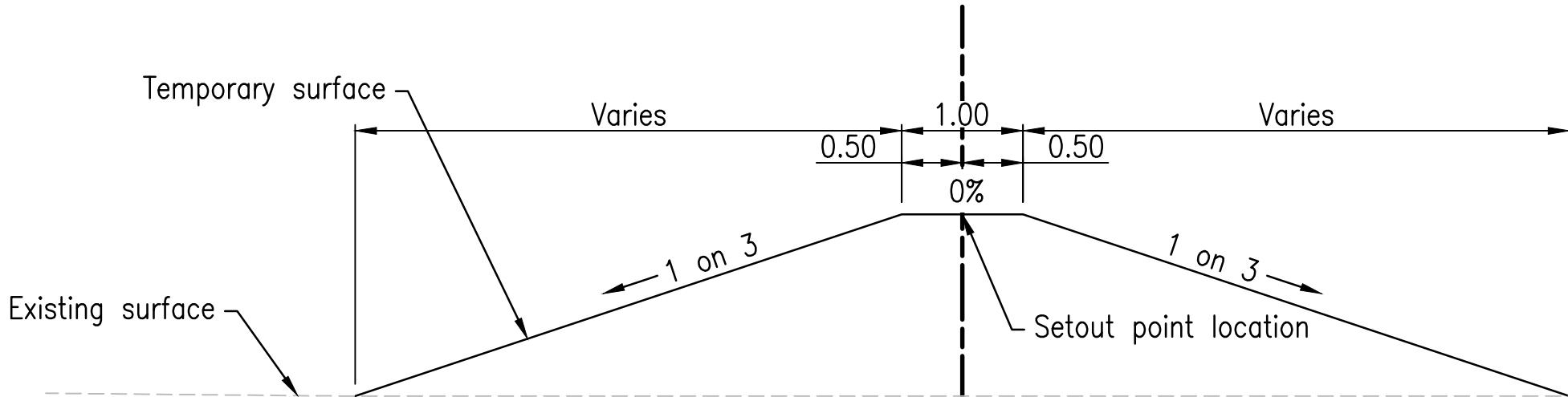
CUT VOLUMES ARE NEGATIVE
FILL VOLUMES ARE POSITIVE

TOTAL CUT	-0 m ³
TOTAL FILL	4.08 m ³
TOTAL BALANCE	4.08 m ³

NOTE:
1. INDICATED EARTHWORKS VOLUMES ARE NETT AND EXCLUDE BULKING / COMPACTION FACTORS;
2. NO ALLOWANCE HAS BEEN MADE FOR SPOIL GENERATED FROM SERVICE TRENCHING
3. NO ALLOWANCE HAS BEEN MADE FOR THE STRIPPING OF TOPSOIL
4. NO ALLOWANCE HAS BEEN MADE FOR PAVEMENT OR CONCRETE PATHING

SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
1T	479817.840	7867220.882	2.600
2T	479836.604	7867226.999	2.600
3T	479843.041	7867229.098	2.600
4T	479900.830	7867247.936	2.600

- NOTES:
- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
 - Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 - Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 - Refer drawing 304702009-STN-02-006-DR-CI-420 for culvert details



0 2 4 6 8 10m

PLAN

0 1.0 2.0m

SECTION

Issued/Revision	By	Appd	YYYY.MM.DD
P01 FOR APPROVAL	RM	BM	2026/05/15

Issue Status

S4

SUITABLE FOR STAGE APPROVAL

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Coordinate System

MGA/20-Zone 55

Datum

mAHD

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Client/Project Logo

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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

TEMPORARY BUNDING ARRANGEMENT

Project No. 304702009

Auth. Ref. BM 24432

Scale at A1 AS SHOWN

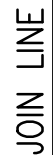
Revision P01

Drawing No. 304702009-STN-02-006-DR-CI-000040

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Printer: McGraw Hill, Date: 15/05/2026, 4:22:15 AM

ORIGINAL SHEET - S01 A1

A



JOINS DRAWING 304702009-STN-02-006-DR-CI-000071

MILVERTON CCT

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Remove signs

- Remove grave

- Cutback pavement and remove
- kerbing for new pavement

Remove driveway and path section for new sewer main, refer sewer drawings for alignment.
Replace driveway and path section upon completion.

NOTES:

- | | | | | |
|----|---------------|--------------------------------|--------|---|
| 1. | Refer drawing | 304702009-STN-02-006-DR-CI-010 | to 011 | for details, notes and legends |
| 2. | Refer drawing | 304702009-STN-02-006-DR-CI-090 | to 095 | for earthworks |
| 3. | Refer drawing | 304702009-STN-02-006-DR-CI-100 | to 110 | for detailed road setout, longsections and cross sections |
| 4. | Refer drawing | 304702009-STN-02-006-DR-CI-150 | to 153 | for linemarking and signs plan |
| 5. | Refer drawing | 304702009-STN-02-006-DR-CI-200 | to 206 | for sewer details and longsections |
| 6. | Refer drawing | 304702009-STN-02-006-DR-CI-300 | to 303 | for water reticulation |
| 7. | Refer drawing | 304702009-STN-02-006-DR-CI-400 | to 440 | for stormwater catchments, layout and longsections |



P01 FOR APPROVAL	RM	BM	2026/05/15
Issued/Revision	By	Appd	YYYY.MM.DD

Issue Status

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Coordinate System
MGA/20-Zone 55
Datum
mAHD

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

DEMOLITION
SHEET 1 OF 4

Project No.
304702009

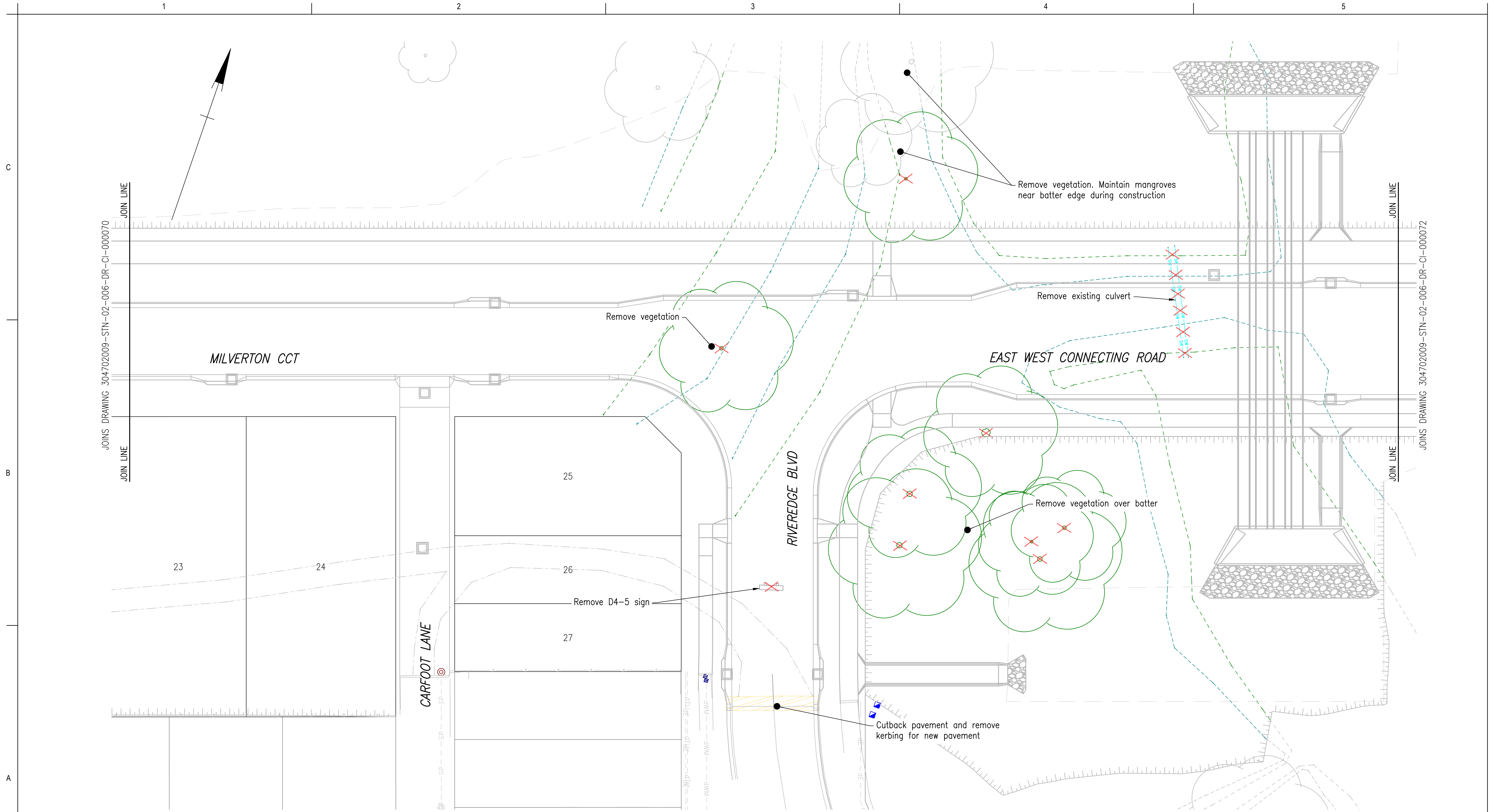
Auth. Ref.
BM 24432

Scale at A1
AS SHOWN

Revision
P01

Drawing No.

304702009-STN-02-006-DR-CI-000070



- NOTES:
- 1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - 2. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 - 3. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 - 4. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 - 5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 - 6. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 - 7. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Plotter: McGraw Hill, Date: 15/05/2024, 4:23:38 AM

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Issued/Revision	RM	BM	2026/05/15
	By	Appd	YYYY.MM.DD

Issue Status
S4
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Coordinate System
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Datum
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ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

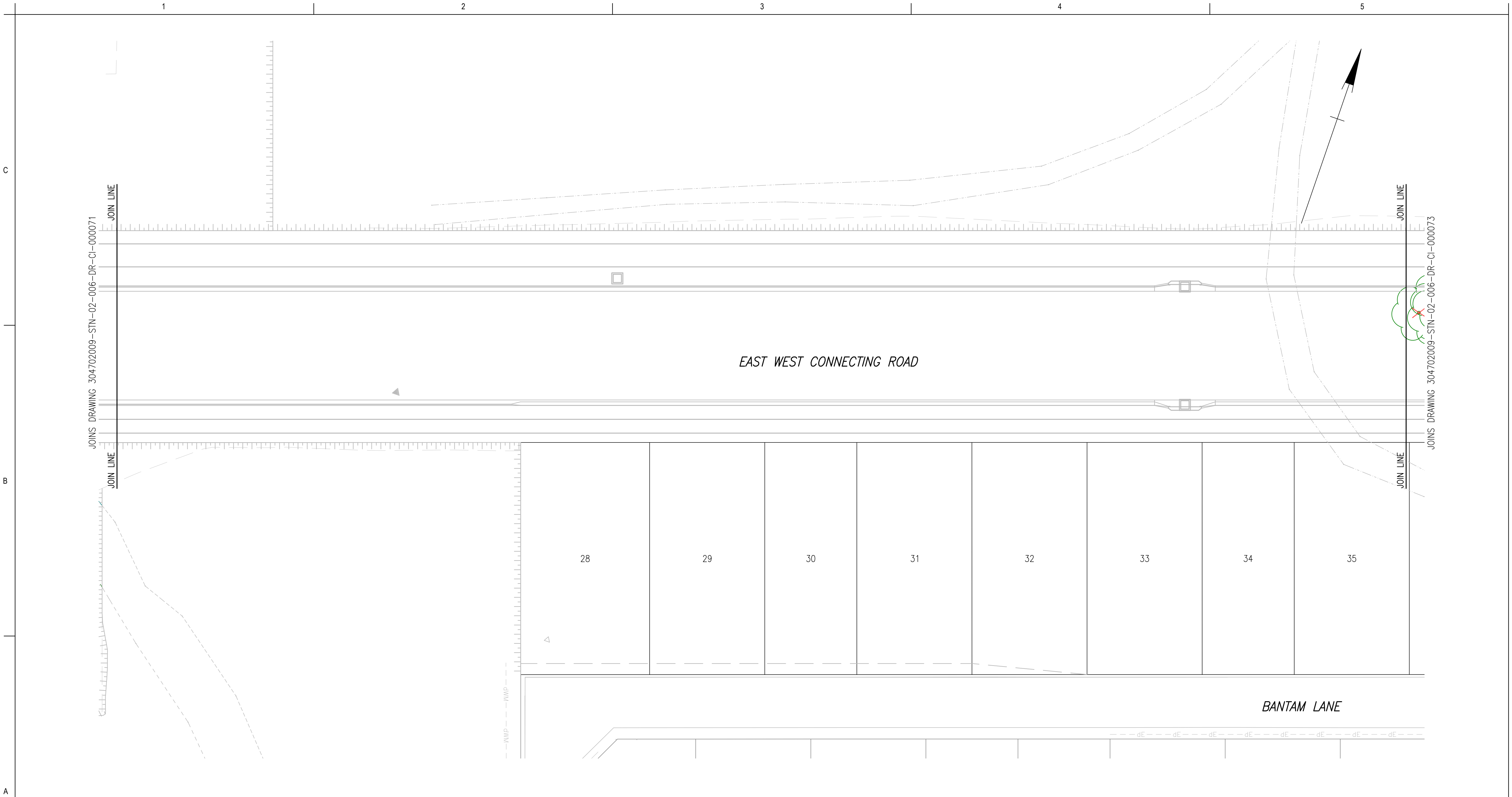
RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

DEMOLITION
SHEET 2 OF 4

Project No. 304702009	Auth. Ref. BM 24432	Scale at A1 AS SHOWN
--------------------------	------------------------	-------------------------

Revision P01	Drawing No. 304702009-STN-02-006-DR-CI-000071
------------------------	---



- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 3. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 4. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 6. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 7. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Plotted: McGeehan, Ron Date: 15/01/2024 6:27:45 AM

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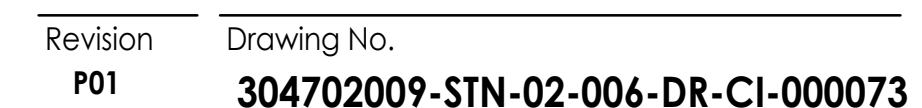
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1.	Refer	drawing	304702009-STN-02-006-DR-CI-010	to 011	for	details, notes and legends
2.	Refer	drawing	304702009-STN-02-006-DR-CI-090	to 095	for	earthworks
3.	Refer	drawing	304702009-STN-02-006-DR-CI-100	to 110	for	detailed road setout, longsections and cross sections
4.	Refer	drawing	304702009-STN-02-006-DR-CI-150	to 153	for	linemarking and signs plan
5.	Refer	drawing	304702009-STN-02-006-DR-CI-200	to 206	for	sewer details and longsections
6.	Refer	drawing	304702009-STN-02-006-DR-CI-300	to 303	for	water reticulation
7.	Refer	drawing	304702009-STN-02-006-DR-CI-400	to 440	for	stormwater catchments, layout and longsections



1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-040 for temporary bund arrangement
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
6. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-420 for stormwater culvert details



\\30470209\technical\drawings\working\Separable Portion 2\30470209-STN-02-006-DR-C100090.dwg

S4
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Economic
Development
Queensland

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

EARTHWORKS LAYOUT PLANS
SHEET 1 OF 3

Project No.	Auth. Ref.	Scale at A1
304702009	BM 24432	AS SHOWN

Revision	Drawing No.
P01	304702009-STN-02-006-DR-CI-000090

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-040 for temporary bund arrangement
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
6. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-420 for stormwater culvert details

304702009-STN-02-006-DR-CI-000091

- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
 3. Refer drawing 304702009-STN-02-006-DR-CI-040 for temporary bund arrangement
 4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 6. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections
 7. Refer drawing 304702009-STN-02-006-DR-CI-420 for stormwater culvert details

LEGEND		
	CUT 3.80 - 4.00m	FILL 0.00 - 0.20m
	CUT 3.60 - 3.80m	FILL 0.20 - 0.40m
	CUT 3.40 - 3.60m	FILL 0.40 - 0.60m
	CUT 3.20 - 3.40m	FILL 0.60 - 0.80m
	CUT 3.00 - 3.20m	FILL 0.80 - 1.00m
	CUT 2.80 - 3.00m	FILL 1.00 - 1.20m
	CUT 2.60 - 2.80m	FILL 1.20 - 1.40m
	CUT 2.40 - 2.60m	FILL 1.40 - 1.60m
	CUT 2.20 - 2.40m	FILL 1.60 - 1.80m
	CUT 2.00 - 2.20m	FILL 1.80 - 2.00m
	CUT 1.80 - 2.00m	FILL 2.00 - 2.20m
	CUT 1.60 - 1.80m	FILL 2.20 - 2.40m
	CUT 1.40 - 1.60m	FILL 2.40 - 2.60m
	CUT 1.20 - 1.40m	FILL 2.60 - 2.80m
	CUT 1.00 - 1.20m	FILL 2.80 - 3.00m
	CUT 0.80 - 1.00m	FILL 3.00 - 3.20m
	CUT 0.60 - 0.80m	FILL 3.20 - 3.40m
	CUT 0.40 - 0.60m	FILL 3.40 - 3.60m
	CUT 0.20 - 0.40m	FILL 3.60 - 3.80m
	CUT 0.00 - 0.20m	FILL 3.80 - 4.00m

DATE: 12/05/2026
Volumes from tin "S EXISTING"
to tin "S DESIGN"

CUT VOLUMES ARE NEGATIVE
FILL VOLUMES ARE POSITIVE

TOTAL CUT

-2312 m³

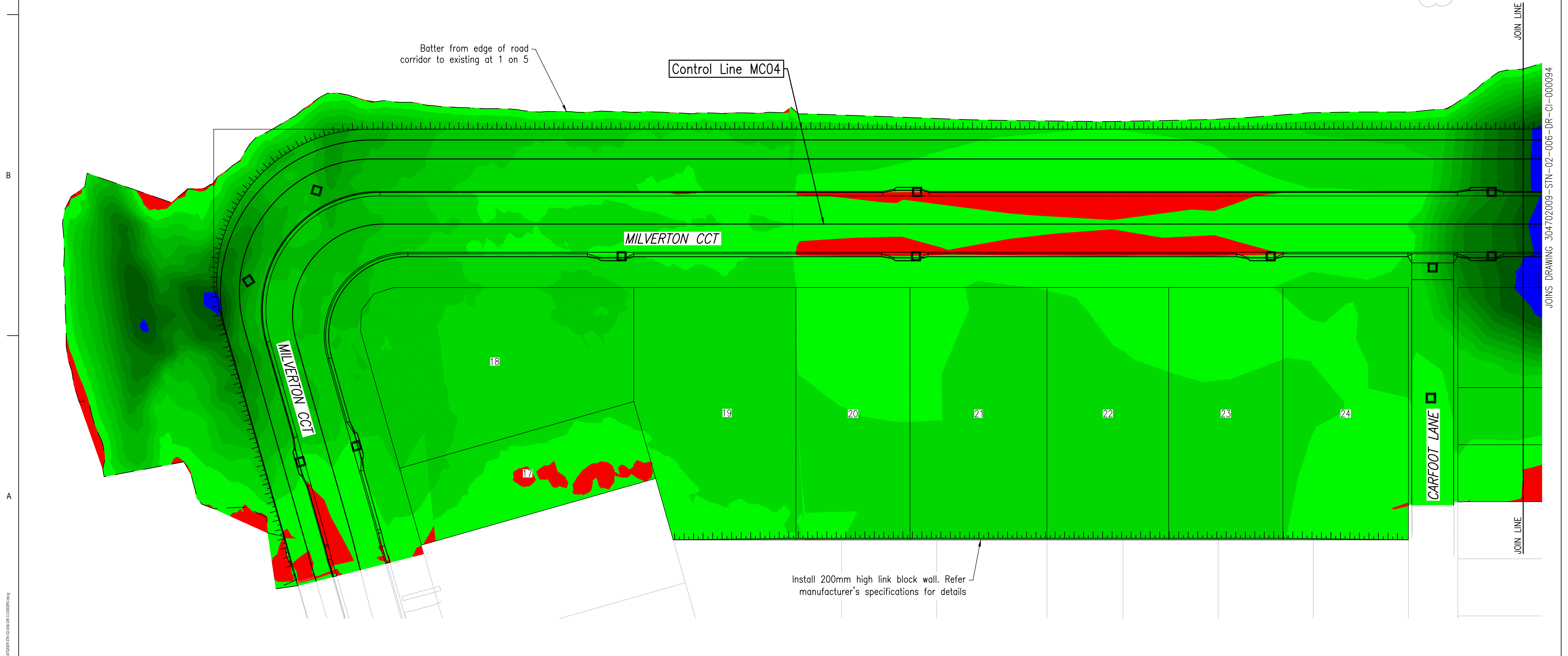
TOTAL FILL

12667 m³

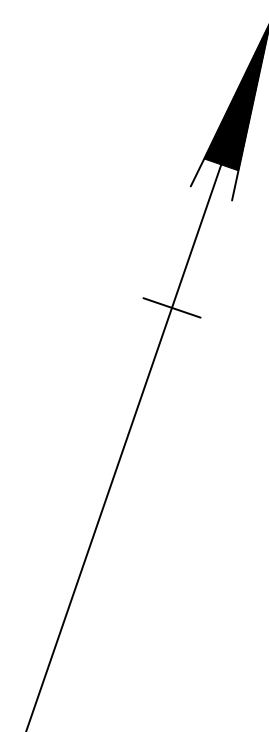
TOTAL BALANCE

10355 m³

NOTE:
1. INDICATED EARTHWORKS VOLUMES ARE NETT AND EXCLUDE BULKING / COMPACTION FACTORS;
2. NO ALLOWANCE HAS BEEN MADE FOR SPOIL GENERATED FROM SERVICE TRENCHING
3. NO ALLOWANCE HAS BEEN MADE FOR THE STRIPPING OF TOPSOIL
4. NO ALLOWANCE HAS BEEN MADE FOR PAVEMENT OR CONCRETE PATHING
5. NO ALLOWANCE HAS BEEN MADE FOR TEMPORARY BUND WORKS



1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-040 for temporary bund arrangement
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
6. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-420 for stormwater culvert details



Batter from edge of road corridor to new level of R.L. 1.25 at 1 on 5 over culvert

Batter from edge of road
corridor to existing at 1 on 5

Control Line MC01

Batter from edge of road
corridor to existing at 1 on 5

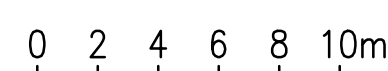
EAST WEST CONNECTING ROAD

EAST WEST CONNECTING ROAD

- Batter from edge of road corridor to existing at 1 on 5 over culvert

Control Line MC02

Batter from edge of road corridor to new
R.L. 1.30 at 1 on 5 over culvert



P01 FOR APPROVAL	RM	BM	2024/05/15
Issued/Revision	By	Appd	YYYY.MM.DD

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Coordinate System
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Datum
mAHd

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

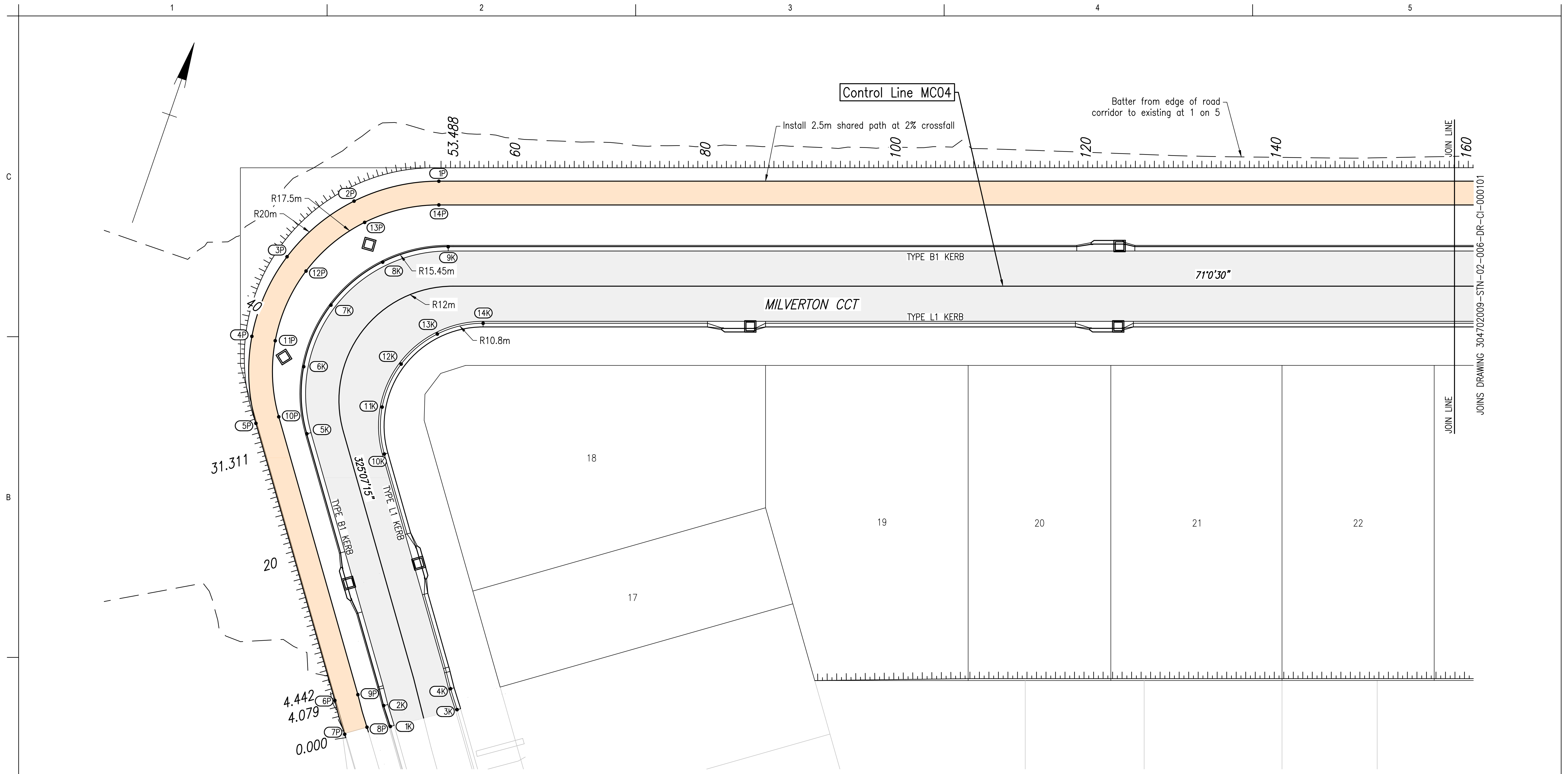
EARTHWORKS CUTFILL PLANS
SHEET 2 OF 3

Project No.	Auth. Ref.
304702009	BM 2443

Scale at A1
AS SHOWN

Revision Drawing No.

P01 304702009-STN-02-006-DR-CI-000094



PATH SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
1P	479668.716	7867143.217	5.439
2P	479660.968	7867138.332	5.454
3P	479656.210	7867130.507	5.459
4P	479655.439	7867121.381	5.427
5P	479658.817	7867112.868	5.378
6P	479676.151	7867087.999	5.323
7P	479678.291	7867084.975	5.373
8P	479680.265	7867086.438	5.315
9P	479678.244	7867089.366	5.273
10P	479660.868	7867114.298	5.328
11P	479657.913	7867121.747	5.376
12P	479658.587	7867129.732	5.409
13P	479662.750	7867136.579	5.404
14P	479669.529	7867140.853	5.389

KERB INVERT SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
1K	479682.565	7867087.316	5.085
2K	479681.184	7867089.161	5.063
3K	479688.619	7867091.269	5.110
4K	479687.255	7867093.125	5.083
5K	479664.242	7867113.567	5.103
6K	479661.633	7867120.143	5.133
7K	479662.228	7867127.193	5.145
8K	479665.904	7867133.238	5.133
9K	479671.889	7867137.011	5.112
10K	479672.634	7867114.206	5.102
11K	479670.810	7867118.803	5.123
12K	479671.227	7867123.731	5.148
13K	479673.796	7867127.957	5.133
14K	479677.980	7867130.594	5.119

- NOTES:
- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 - Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 - Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 - Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 - Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 - Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 - Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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P01 FOR APPROVAL
Issued/Revision

RM BM 2026/05/15
By Appd YYYY.MM.DD

Issue Status
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Datum
mAHD

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Client/Project Logo



Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

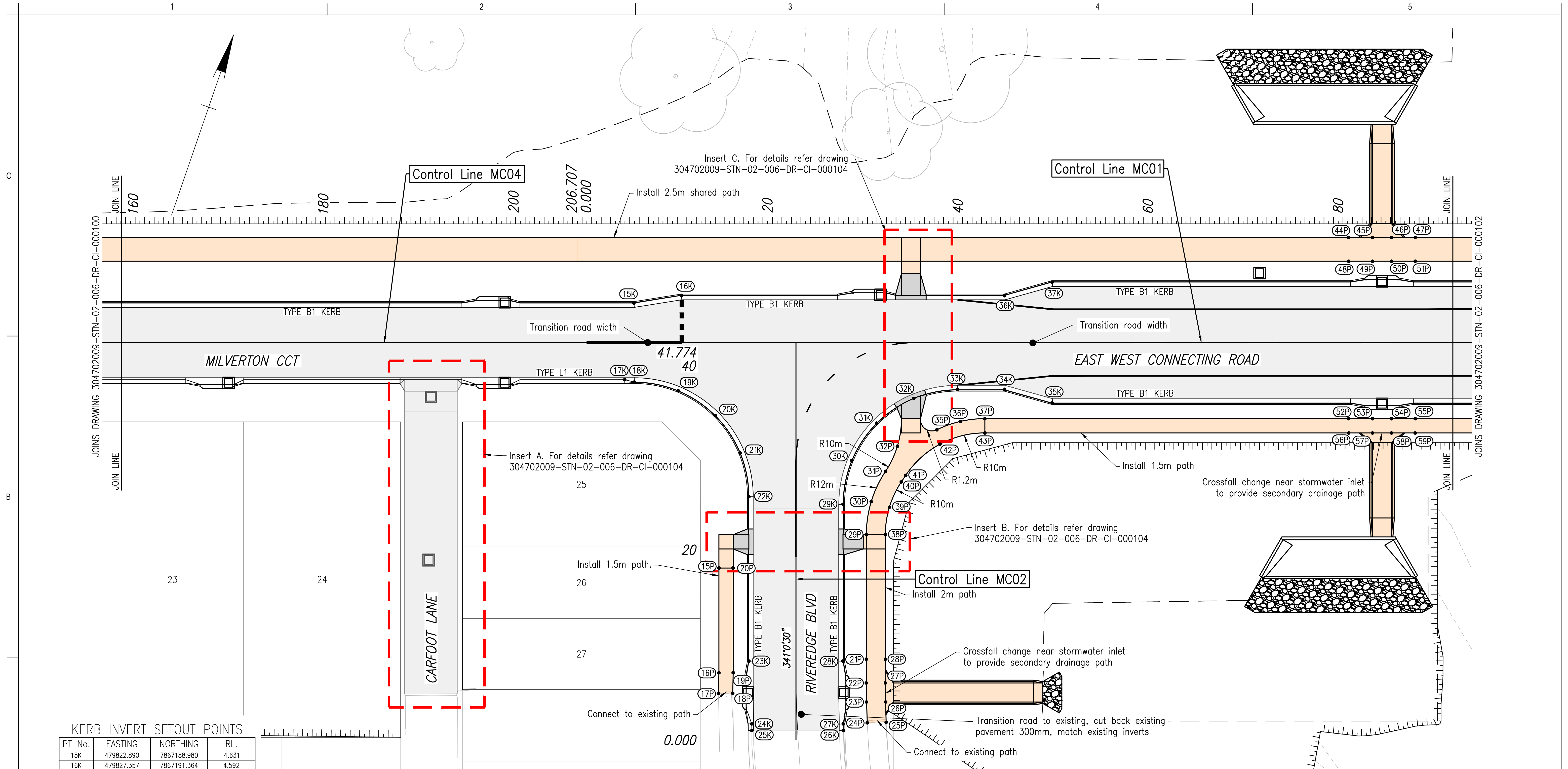
Title

DETAILED ROAD SETOUT LAYOUT PLAN
SHEET 1 OF 6

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision Drawing No.

P01 **304702009-STN-02-006-DR-CI-000100**



KERB INVERT SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
15K	479822.890	7867188.980	4.631
16K	479827.357	7867191.364	4.592
17K	479824.598	7867181.055	4.654
18K	479825.625	7867181.144	4.631
19K	479830.283	7867181.777	4.575
20K	479834.830	7867180.579	4.437
21K	479838.572	7867177.733	4.298
22K	479840.940	7867173.671	4.239
23K	479846.562	7867157.337	4.193
24K	479848.993	7867151.194	4.215
25K	479849.231	7867150.535	4.219
26K	479858.324	7867153.665	4.218
27K	479858.092	7867154.325	4.211
28K	479855.923	7867160.559	4.193
29K	479850.562	7867176.136	4.236
30K	479849.928	7867180.795	4.284
31K	479851.126	7867185.342	4.387
32K	479853.972	7867189.084	4.483
35K	479867.887	7867193.362	4.433
36K	479859.482	7867202.420	4.490
37K	479863.754	7867205.371	4.433

PATH SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
15P	479840.400	7867165.561	4.444
16P	479843.982	7867155.153	4.418
17P	479844.639	7867153.075	4.390
18P	479846.058	7867153.588	4.350
19P	479845.400	7867155.641	4.388
20P	479841.818	7867166.049	4.414
21P	479858.174	7867161.545	4.413
22P	479858.988	7867159.181	4.368
23P	479859.652	7867157.295	4.372
24P	479860.439	7867155.248	4.405
25P	479862.306	7867155.947	4.435
26P	479861.555	7867157.950	4.392
27P	479860.879	7867159.832	4.388
28P	479860.065	7867162.196	4.453
29P	479853.917	7867173.914	4.448

PATH SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
30P	479853.273	7867177.367	4.467
31P	479853.655	7867180.858	4.504
32P	479853.974	7867183.767	4.551
33P	479853.437	7867186.644	4.558
34P	479855.356	7867187.211	4.598
35P	479857.340	7867186.754	4.611
36P	479859.380	7867188.377	4.622
37P	479861.732	7867189.499	4.630
38P	479855.808	7867174.565	4.488
39P	479855.271	7867177.442	4.510
40P	479855.590	7867180.351	4.560
41P	479855.801	7867181.157	4.575
42P	479858.142	7867185.424	4.638
43P	479862.221	7867188.081	4.660
44P	479891.706	7867219.962	4.601

PATH SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
45P	479894.070	7867220.775	4.528
46P	479895.961	7867221.426	4.528
47P	479898.325	7867222.240	4.601
48P	479892.520	7867217.598	4.551
49P	479894.884	7867218.411	4.503
50P	479896.775	7867219.062	4.503
51P	479899.139	7867219.876	4.551
52P	479897.906	7867201.948	4.535
53P	479900.270	7867202.762	4.497
54P	479902.161	7867203.413	4.497
55P	479904.525	7867204.226	4.535
56P	479898.394	7867200.530	4.565
57P	479900.758	7867201.344	4.512
58P	479902.649	7867201.995	4.512
59P	479905.013	7867202.808	4.565

- NOTES:
- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 - Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 - Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 - Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 - Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 - Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 - Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Scale 1:1000

Issue Status

S4
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Coordinate System

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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Revision

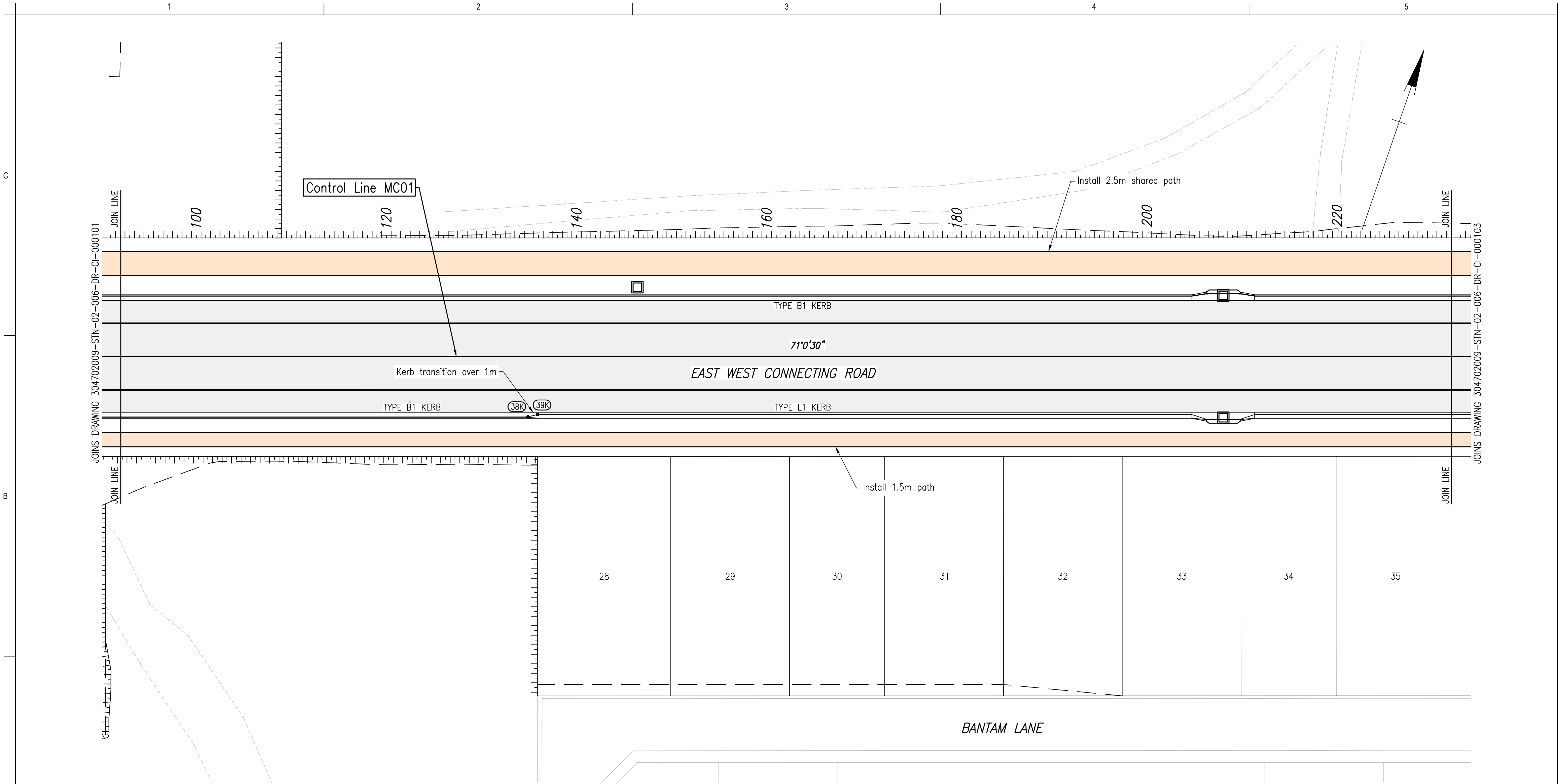
P01

Drawing No.

304702009-STN-02-006-DR-CI-000101

Scale at A1

AS SHOWN



KERB INVERT SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
38K	479948.226	7867221.012	4.480
39K	479949.090	7867221.574	4.503

- NOTES:
- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 - Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
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 - Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 - Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Plotted: McGeehan, Ron Date: 15/07/2024 4:24:03 PM

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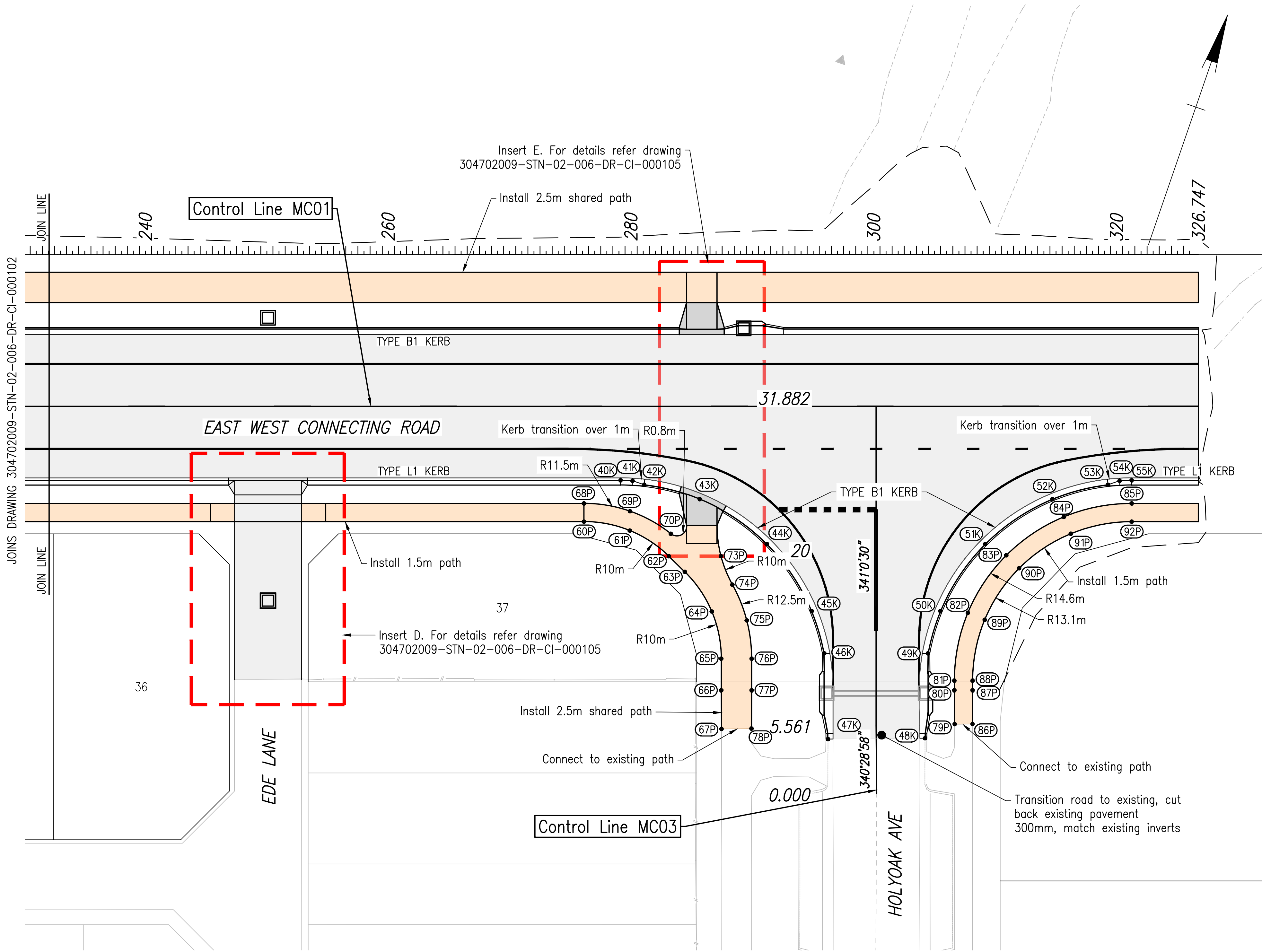
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Plotted: McGeehan, Ron Date: 15/05/2024 6:49:48 AM



KERB INVERT SETOUT POINTS

PT No.	EASTING	NORTHING	RL.
40K	480084.538	7867268.190	4.740
41K	480085.482	7867268.485	4.742
42K	480086.494	7867268.481	4.722
43K	480091.212	7867268.850	4.696
44K	480097.645	7867267.155	4.585
45K	480102.940	7867263.127	4.467
46K	480105.038	7867260.174	4.435
47K	480107.635	7867253.593	4.461
48K	480115.168	7867256.264	4.484
49K	480113.122	7867262.957	4.436
50K	480112.959	7867266.575	4.468
51K	480114.653	7867273.008	4.585
52K	480118.681	7867278.303	4.696
53K	480122.626	7867280.916	4.722
54K	480123.422	7867281.542	4.742
55K	480124.347	7867281.890	4.740

PATH SETOUT POINTS

PT No.	EASTING	NORTHING	RL.
60P	480082.794	7867263.994	4.936
61P	480086.605	7867264.523	4.940
62P	480090.334	7867263.573	4.917
63P	480091.995	7867262.785	4.904
64P	480095.164	7867260.417	4.878
65P	480097.166	7867257.004	4.865
66P	480098.016	7867254.533	4.863
67P	480099.069	7867251.531	4.869
68P	480082.306	7867265.412	4.906
69P	480086.101	7867266.038	4.916
70P	480089.890	7867265.378	4.896
73P	480094.383	7867264.986	4.852
74P	480096.045	7867263.066	4.859
75P	480098.123	7867260.665	4.840
76P	480099.530	7867257.818	4.818
77P	480100.380	7867255.346	4.810
78P	480101.393	7867252.366	4.811
79P	480117.104	7867258.156	4.724
80P	480116.171	7867260.781	4.723
81P	480115.911	7867261.537	4.729
82P	480115.144	7867267.182	4.782
83P	480116.595	7867272.691	4.859
84P	480120.044	7867277.225	4.908
85P	480124.965	7867280.094	4.915
86P	480118.490	7867258.646	4.738
87P	480117.590	7867261.269	4.753
88P	480117.329	7867262.025	4.759
89P	480116.641	7867267.090	4.813
90P	480117.943	7867272.033	4.889
91P	480121.037	7867276.101	4.939
92P	480125.453	7867278.675	4.945

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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P01 FOR APPROVAL
Issued/Revision

RM BM 2026/05/15
By Appd YYYY.MM.DD

Issue Status

S4
SUITABLE FOR
STAGE APPROVAL

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Coordinate System
MGA/20-Zone 55
Datum
mAHD

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This drawing has been documented in colour. This drawing is required to be printed in colour. Failure to do so may result in loss of information. Black and white printing may be used if specific black and white documents have been obtained from Stantec.



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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

Title

DETAILED ROAD SETOUT LAYOUT PLAN
SHEET 4 OF 6

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision Drawing No.

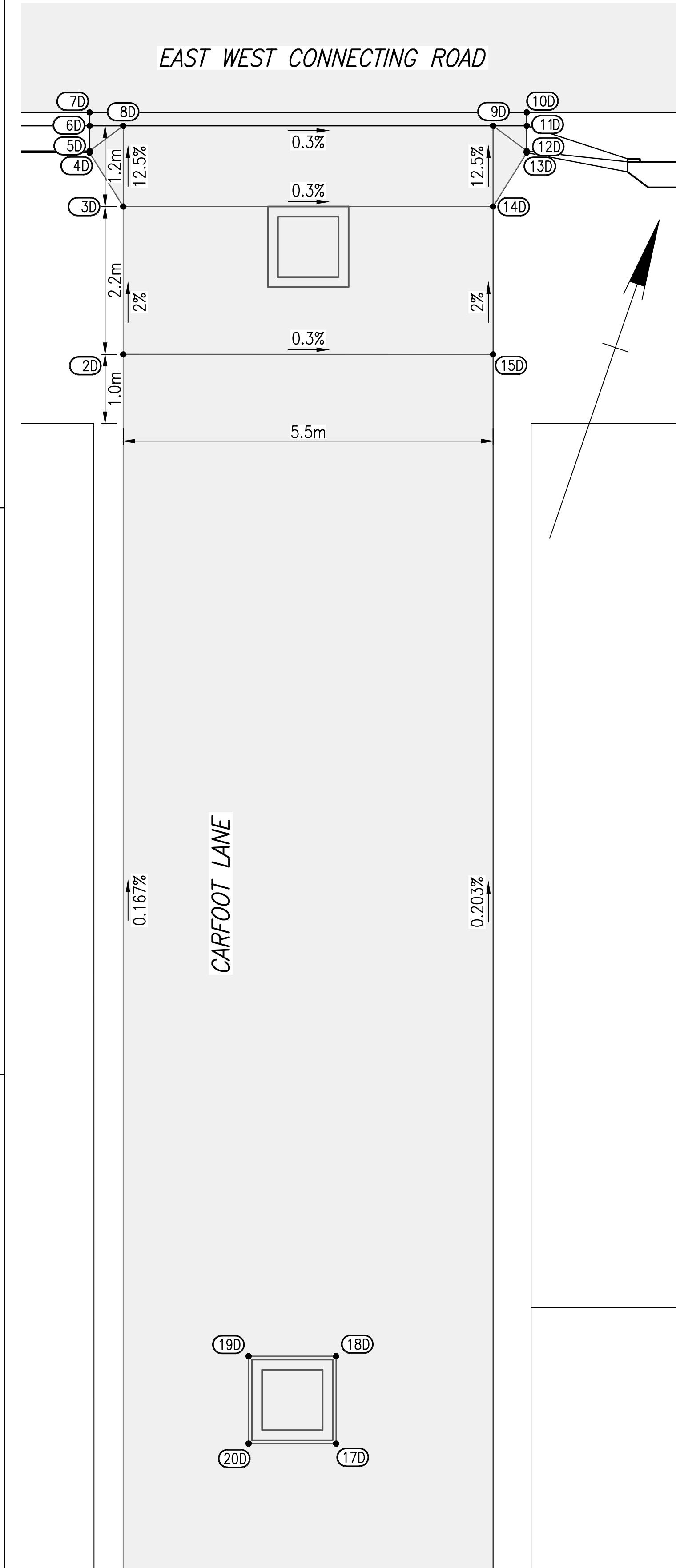
P01 **304702009-STN-02-006-DR-CI-000103**

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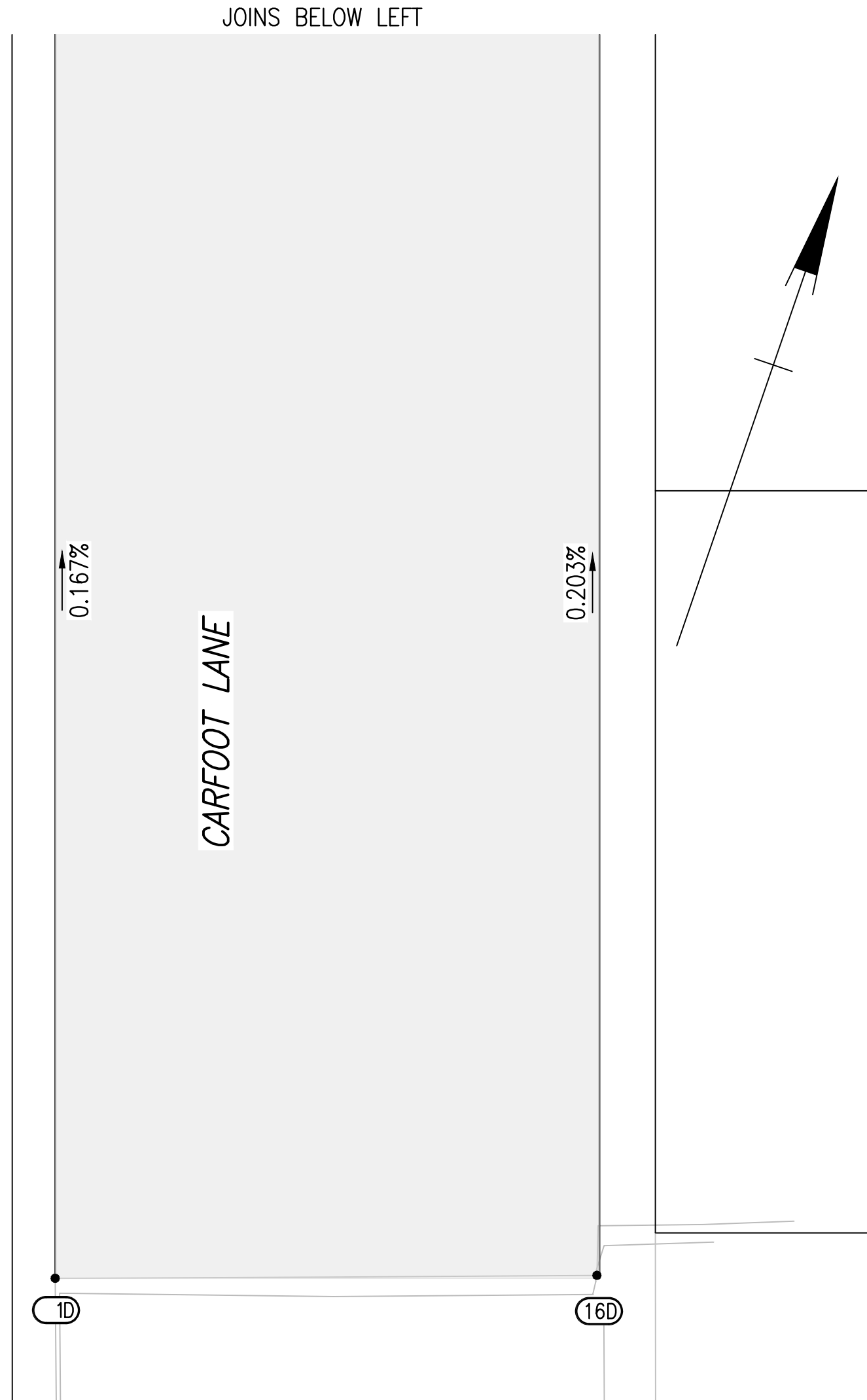
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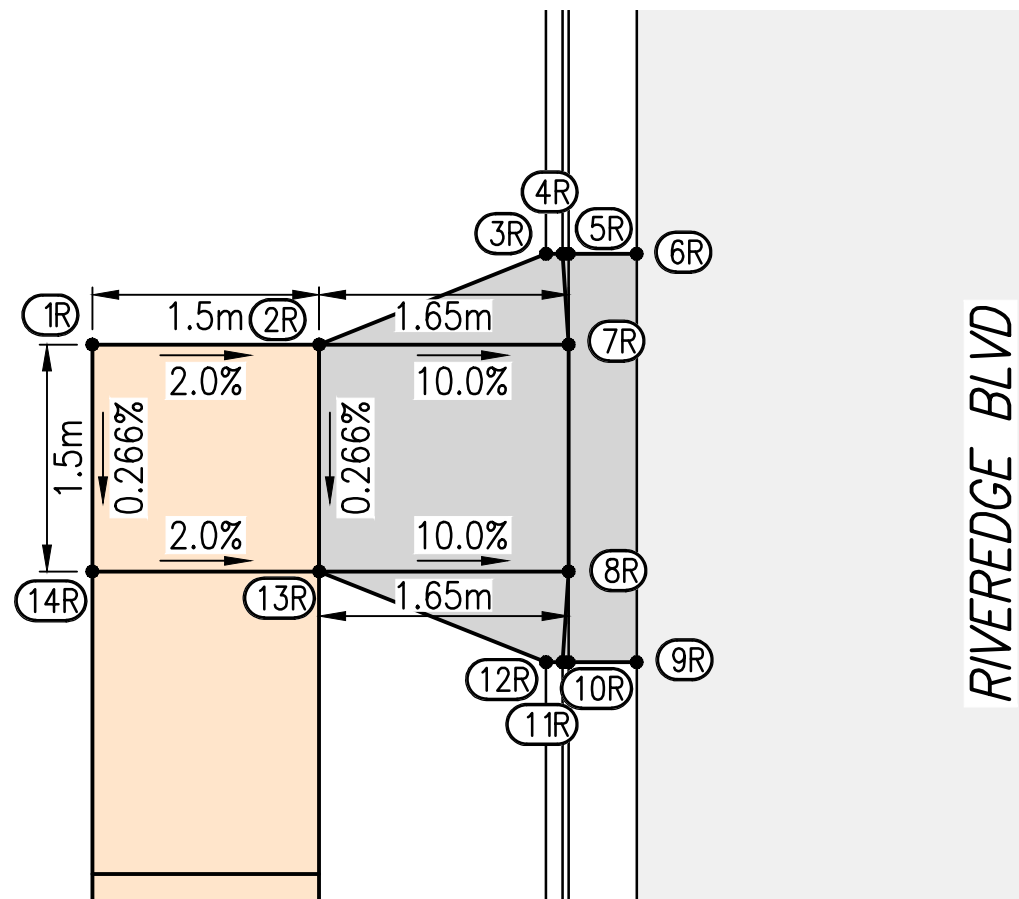
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Plotted: McGeehan, Ron Date: 15/05/2024 4:28 PM



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KERB RAMP SETOUT POINTS

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2R	479840.679	7867169.358	4.382
3R	479841.902	7867170.414	4.380
4R	479842.006	7867170.450	4.380
5R	479842.044	7867170.463	4.230
6R	479842.470	7867170.609	4.270
7R	479842.240	7867169.895	4.229
8R	479842.728	7867168.477	4.225
9R	479843.348	7867168.056	4.263
10R	479842.923	7867167.910	4.223
11R	479842.885	7867167.897	4.373
12R	479842.781	7867167.861	4.373
13R	479841.167	7867167.940	4.378
14R	479839.749	7867167.452	4.408
15R	479855.808	7867174.565	4.488
16R	479853.917	7867173.914	4.448
17R	479853.610	7867173.809	4.441
18R	479851.547	7867173.733	4.380
19R	479851.443	7867173.698	4.380
20R	479851.405	7867173.684	4.230
21R	479850.980	7867173.538	4.270
22R	479851.601	7867173.117	4.229
23R	479852.089	7867171.699	4.225
24R	479851.859	7867170.985	4.263
25R	479852.284	7867171.131	4.223
26R	479852.322	7867171.144	4.373
27R	479852.426	7867171.180	4.373
28R	479854.098	7867172.390	4.437
29R	479854.405	7867172.496	4.444
30R	479856.297	7867173.147	4.484
31R	479853.925	7867185.226	4.573

KERB RAMP SETOUT POINTS

PT No.	EASTING	NORTHING	RL.
32R	479853.437	7867186.644	4.558
33R	479852.678	7867187.510	4.601
34R	479852.592	7867187.579	4.601
35R	479852.561	7867187.604	4.451
36R	479852.210	7867187.886	4.491
37R	479852.948	7867188.062	4.461
38R	479853.714	7867188.848	4.477
39R	479854.548	7867189.562	4.491
40R	479854.771	7867190.287	4.537
41R	479855.030	7867189.918	4.497
42R	479855.053	7867189.886	4.647
43R	479855.116	7867189.796	4.647
44R	479855.328	7867187.295	4.598
45R	479855.816	7867185.876	4.605
46R	479847.237	7867204.657	4.826
47R	479848.051	7867202.293	4.776
48R	479848.484	7867201.035	4.750
49R	479848.606	7867198.836	4.675
50R	479848.642	7867198.732	4.675
51R	479848.655	7867198.694	4.525
52R	479848.801	7867198.268	4.565
53R	479849.222	7867198.889	4.523
54R	479851.113	7867199.540	4.517
55R	479851.827	7867199.310	4.555
56R	479851.681	7867199.735	4.515
57R	479851.668	7867199.773	4.665
58R	479851.632	7867199.877	4.665
59R	479850.375	7867201.686	4.744
60R	479849.942	7867202.944	4.770
61R	479849.128	7867205.308	4.820

NOTES:

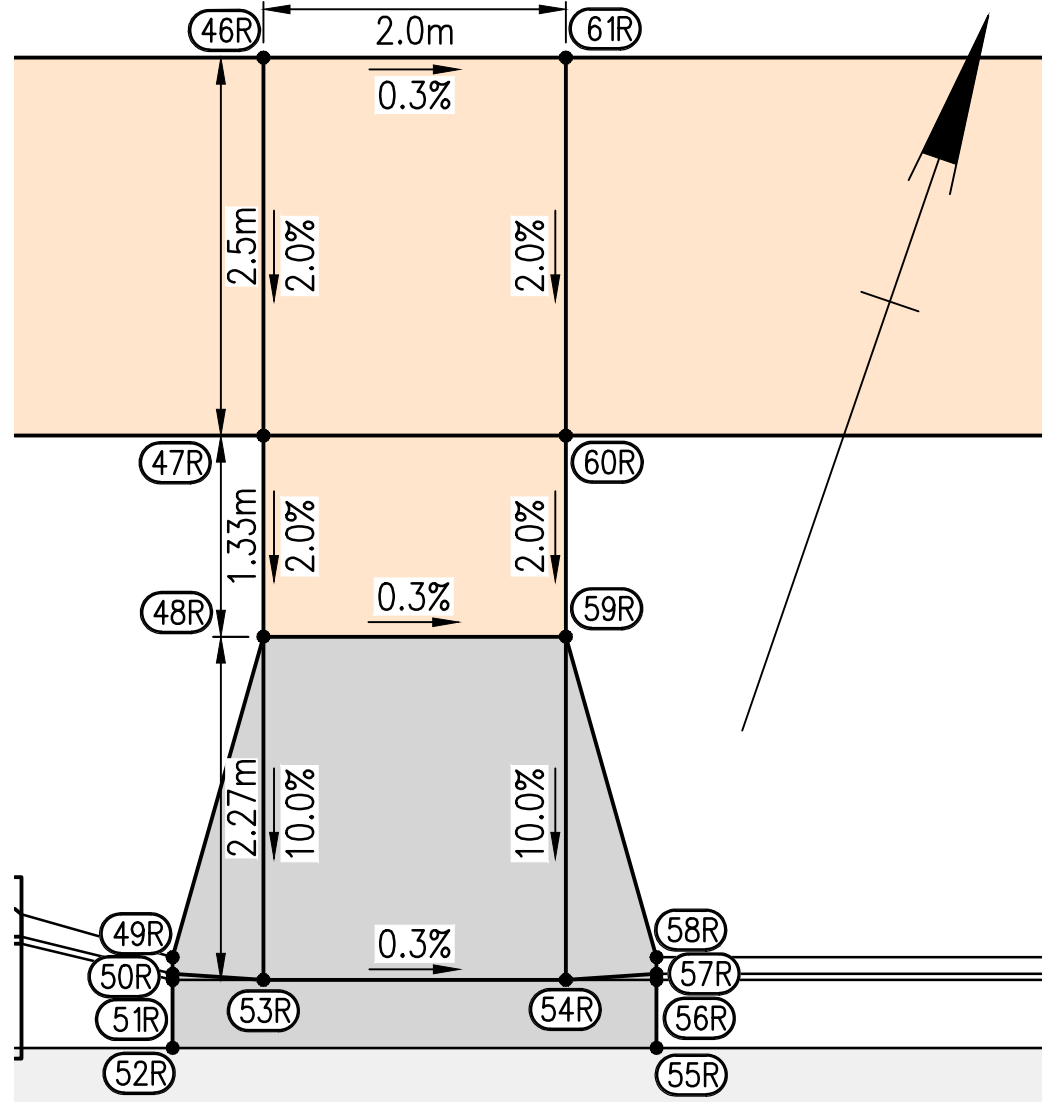
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
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5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

DRIVEWAY SETOUT POINTS

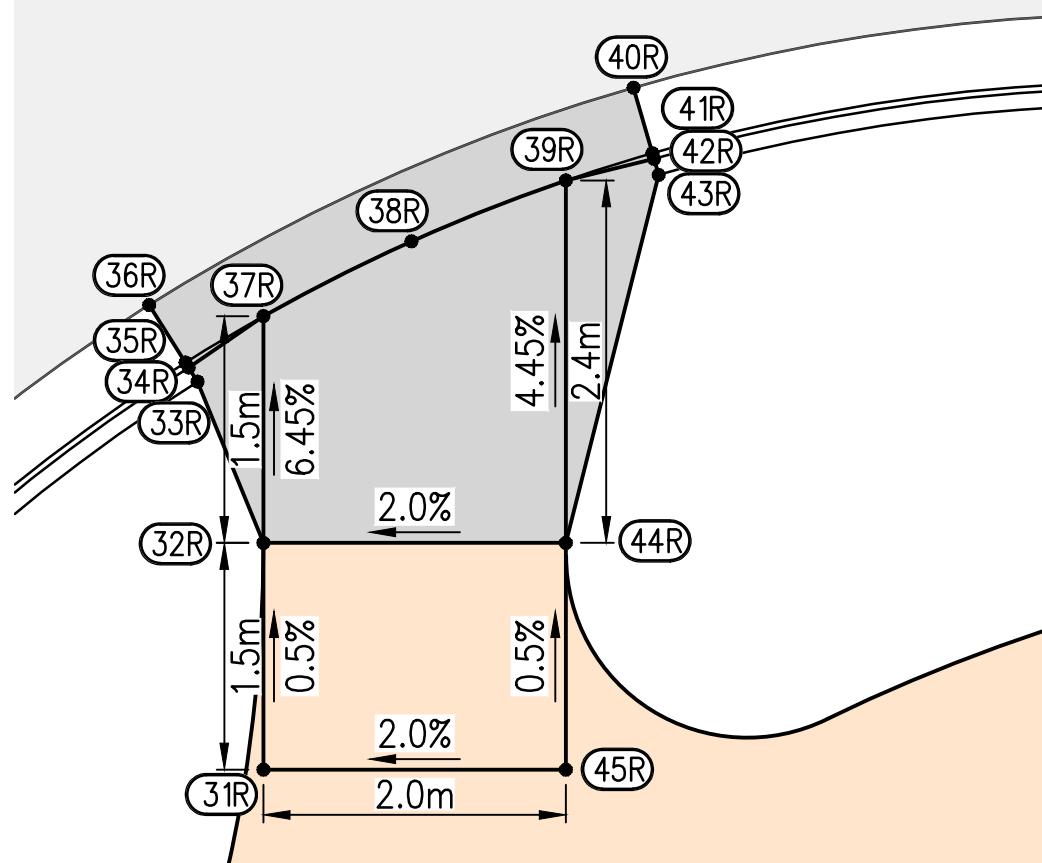
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2D	479803.838	7867170.315	4.917
3D	479803.122	7867172.395	4.873
4D	479802.389	7867172.989	4.855
5D	479802.381	7867173.012	4.855
6D	479802.259	7867173.367	4.725
7D	479802.194	7867173.556	4.745
8D	479802.732	7867173.530	4.723
9D	479807.932	7867175.319	4.707
10D	479808.340	7867175.671	4.725

DRIVEWAY SETOUT POINTS

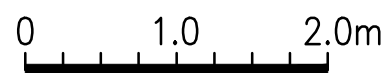
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13D	479808.535	7867175.104	4.835
14D	479808.323	7867174.185	4.857
15D	479809.039	7867172.105	4.901
16D	479818.649	7867144.100	4.961
17D	479812.104	7867156.022	4.820
18D	479811.681	7867157.251	4.820
19D	479810.452	7867156.828	4.820
20D	479810.875	7867155.599	4.820



EAST WEST CONNECTING ROAD



INSERT C



P01 FOR APPROVAL
Issued/Revision

By
Appd

RM
BM
2026/05/15
YYYY.MM.DD

Issue Status

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM
Dwn.
RM
Dsgn.
GJ
Chkd.
BM
Appd.
2026/05/15
YYYY.MM.DD

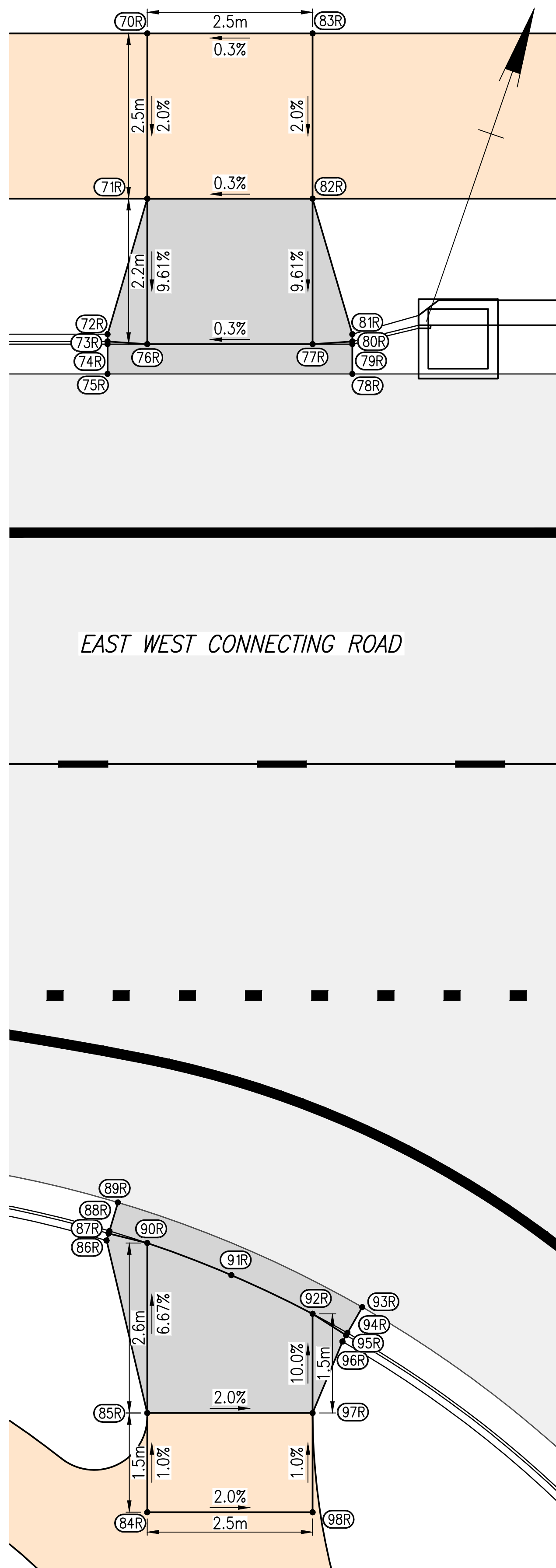
Title

DETAILED ROAD SETOUT LAYOUT PLAN
SHEET 5 OF 6

Project No. 304702009
Auth. Ref. BM 24432
Scale at A1 AS SHOWN

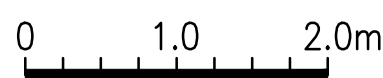
Revision P01
Drawing No.

304702009-STN-02-006-DR-CI-000104



KERB RAMP SETOUT POINTS			
PT No.	EASTING	NORTHING	RL.
70R	480084.104	7867286.178	4.988
71R	480084.918	7867283.814	4.948
72R	480085.018	7867281.680	4.884
73R	480085.053	7867281.576	4.884
74R	480085.066	7867281.538	4.734
75R	480085.213	7867281.113	4.774
76R	480085.634	7867281.733	4.736
77R	480087.998	7867282.547	4.744
78R	480088.711	7867282.317	4.785
79R	480088.565	7867282.742	4.745
80R	480088.552	7867282.780	4.895
81R	480088.516	7867282.884	4.895
82R	480087.282	7867284.627	4.955
83R	480086.468	7867286.991	5.005
84R	480091.382	7867265.032	4.883
85R	480090.894	7867266.450	4.878
86R	480089.463	7867268.717	4.861
87R	480089.459	7867268.827	4.861
88R	480089.457	7867268.867	4.711
89R	480089.438	7867269.316	4.751
90R	480090.057	7867268.881	4.707
91R	480091.417	7867268.836	4.694
92R	480092.769	7867268.682	4.678
93R	480093.445	7867269.022	4.710
94R	480093.361	7867268.580	4.670
95R	480093.353	7867268.541	4.820
96R	480093.333	7867268.433	4.820
97R	480093.258	7867267.264	4.828
98R	480093.746	7867265.845	4.843

- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOOBA PDA
EAST WEST CONNECTING ROAD

Title

DETAILED ROAD SETOUT LAYOUT PLAN
SHEET 6 OF 6

Project No.	Auth. Ref.
304702009	BM 2443

Scale at A1
AS SHOWN

Revision	Drawing No.
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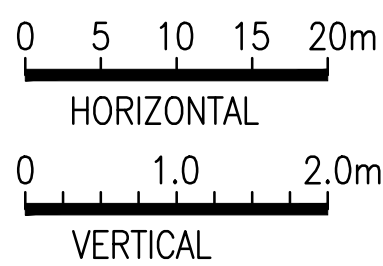
P01 304702009-STN-02-006-DR-CI-000105

RM	RM	GJ	BM	2026/05/15
Dwn	Dsnp	Chkd	Apnd	YYYY MM DD

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	479818.601	7867183.115	4.800	71°00'30.49"
IP 2	326.747	480127.562	7867289.448	4.920	71°00'30.49"



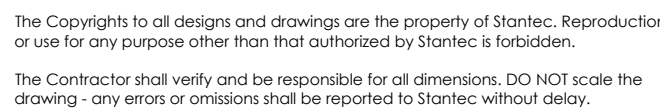
1.	Refer drawing	304702009-STN-02-006-DR-CI-010	to 011	for details, notes and legends
2.	Refer drawing	304702009-STN-02-006-DR-CI-070	to 073	for demolition plan
3.	Refer drawing	304702009-STN-02-006-DR-CI-090	to 095	for earthworks
4.	Refer drawing	304702009-STN-02-006-DR-CI-100	to 110	for detailed road setout, longsections and cross sections
5.	Refer drawing	304702009-STN-02-006-DR-CI-150	to 153	for linemarking and signs plan
6.	Refer drawing	304702009-STN-02-006-DR-CI-200	to 206	for sewer details and longsections
7.	Refer drawing	304702009-STN-02-006-DR-CI-300	to 303	for water reticulation
8.	Refer drawing	304702009-STN-02-006-DR-CI-400	to 440	for stormwater catchments, layout and longsections



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ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Scale at A1
AS SHOWN

P01

304702009-STN-02-006-DB-CI-000106

C

B

A

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Plotted: McGenelli, Ron Date: 15/01/2024 6:28:05 AM

ORIGINAL SHEET - SD A1

1

2

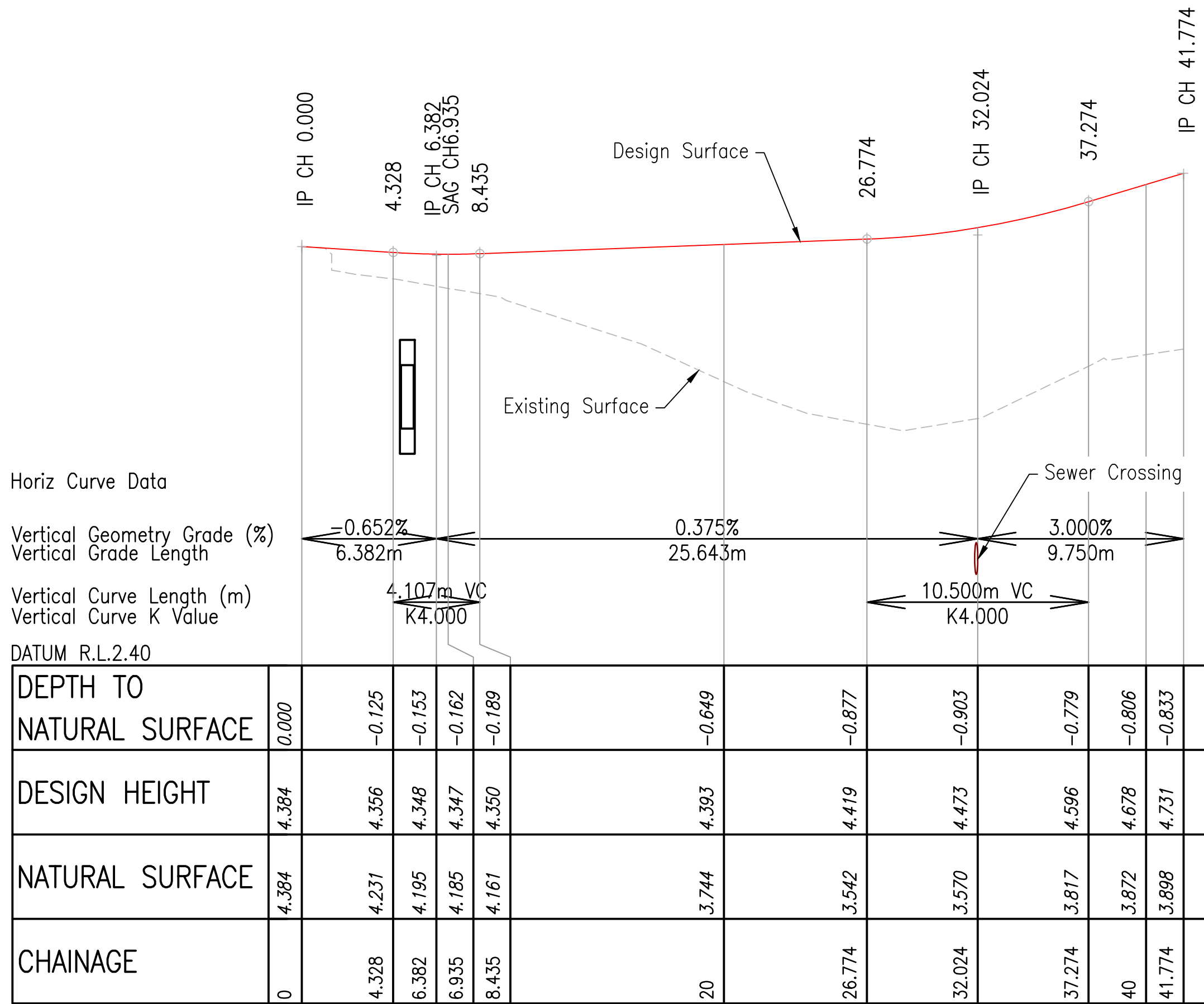
3

4

5

CONTROL LINE MC02 SETOUT

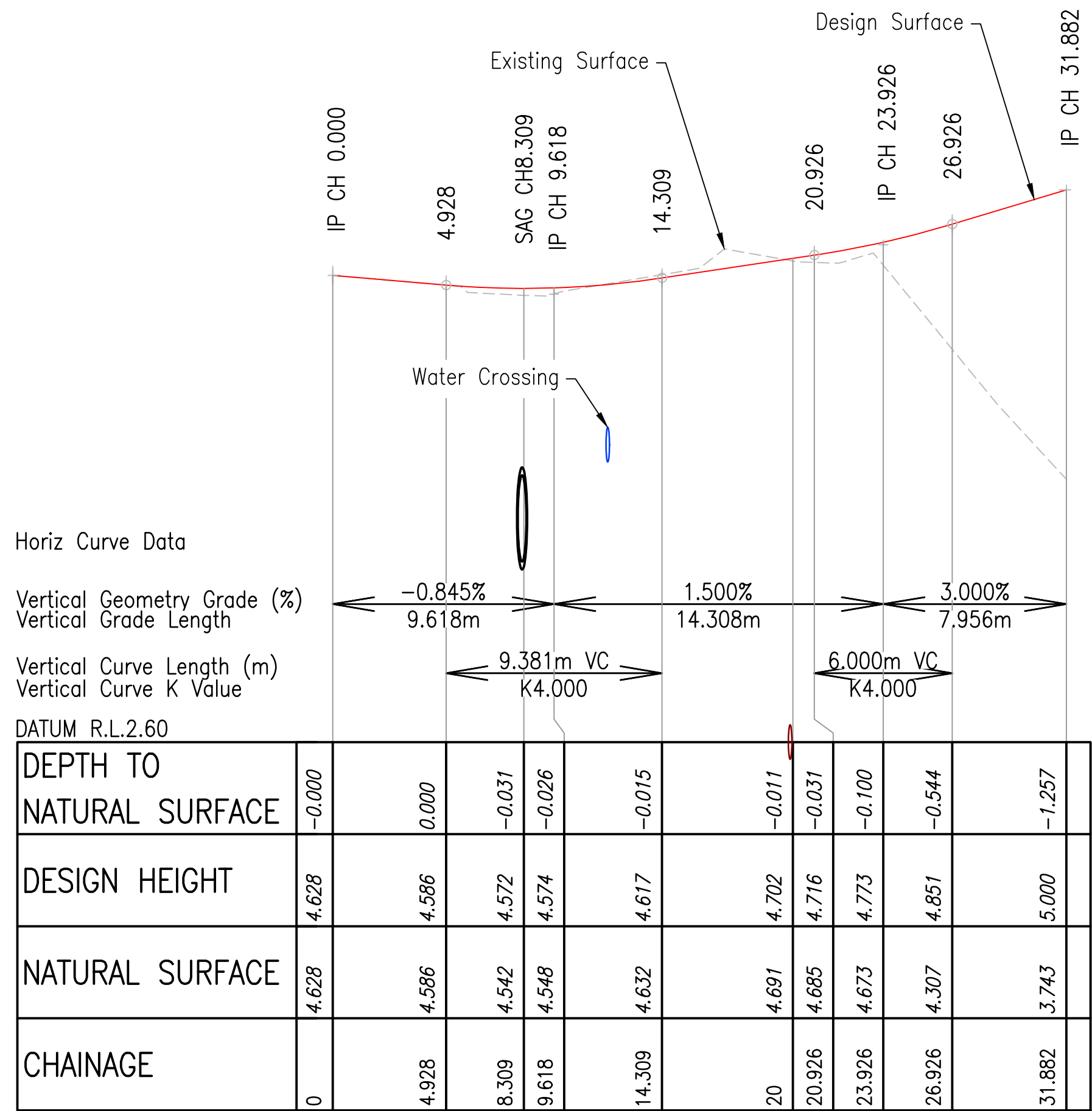
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	479853.943	7867151.100	4.384	341°00'30.49"
IP 2	41.774	479840.349	7867190.600	4.731	341°00'30.49"



LONGSECTION MC02 – RIVEREDGE BOULEVARD

CONTROL LINE MC03 SETOUT

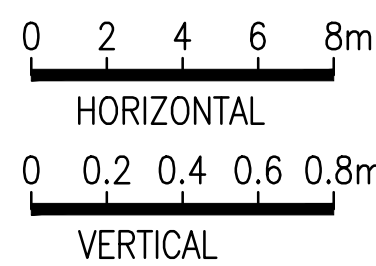
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	480112.881	7867250.678	4.628	340°28'58.00"
IP 2	5.561	480111.023	7867255.920	4.582	
IP 3	31.882	480102.457	7867280.808	5.000	341°00'30.49"



LONGSECTION MC03 – HOLYOAK AVENUE

NOTES:

- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
- Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
- Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
- Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
- Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
- Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
- Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
- Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections



Issue/Revision	By	Appd	2026/05/15
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Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title
ROAD LONGITUDINAL SECTIONS
SHEET 2 OF 3

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision P01 Drawing No. 304702009-STN-02-006-DR-CI-000107

C

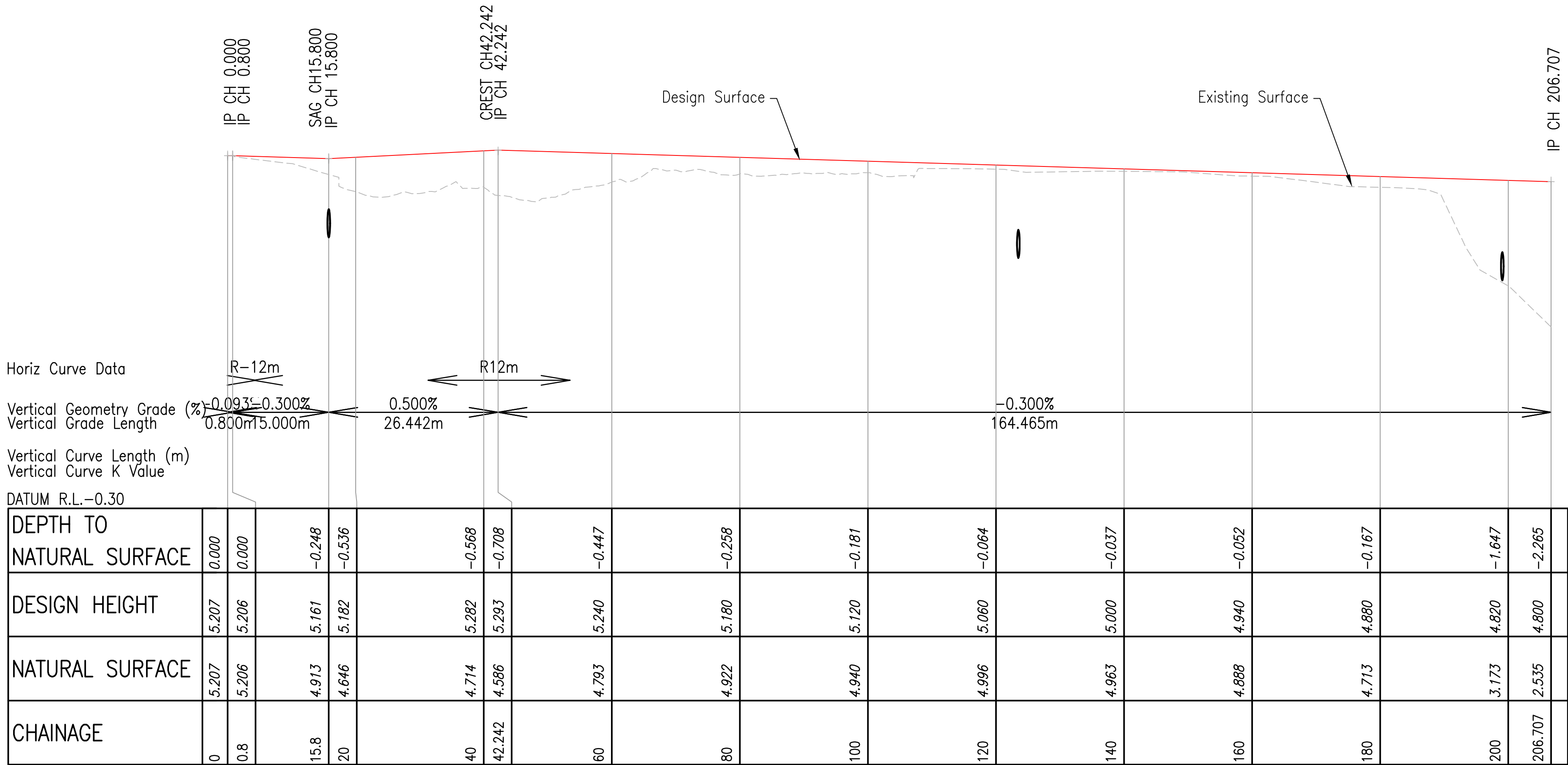
B

A

U:\304702009\Technical\Drawings\Working\Separable\Profile_304702009_STN-02-006-DR-CI-000100.dwg
Plotted: McGeehan, Ron Date: 15/01/2024 6:28:14 AM

CONTROL LINE MC04 SETOUT

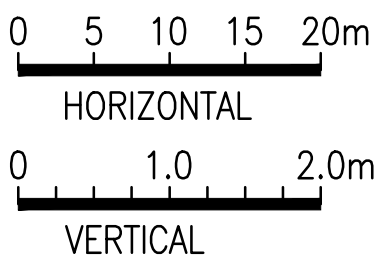
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	479685.582	7867089.286	5.207	326°51'25.56"			
TC	4.079	479683.352	7867092.701	5.196	326°51'25.56"			
IP 2	4.260	479683.252	7867092.853	5.196		R = -12.000	0.364	1°44'10.57"
CT	4.442	479683.148	7867093.002	5.195	325°07'15.00"			
TC	31.311	479667.783	7867115.045	5.239	325°07'15.00"			
IP 3	42.400	479658.696	7867128.082	5.293		R = 12.000	22.177	105°53'15.41"
CT	53.488	479673.723	7867133.254	5.260	71°00'30.41"			
IP 4	206.707	479818.601	7867183.115	4.800	71°00'30.41"			



LONGSECTION MC04 – MILVERTON CIRCUIT

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

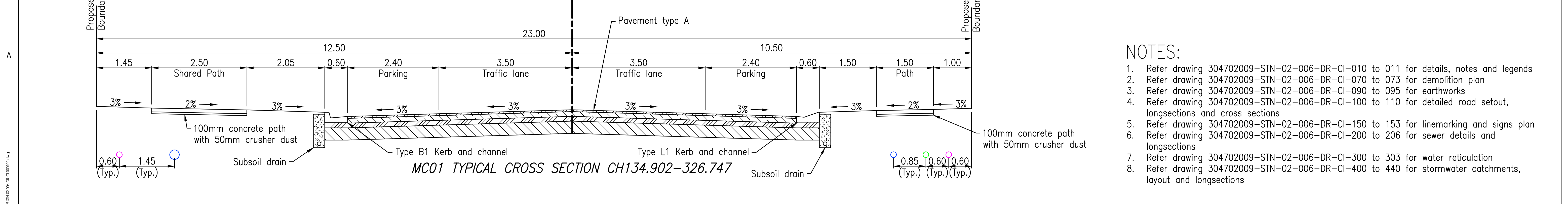
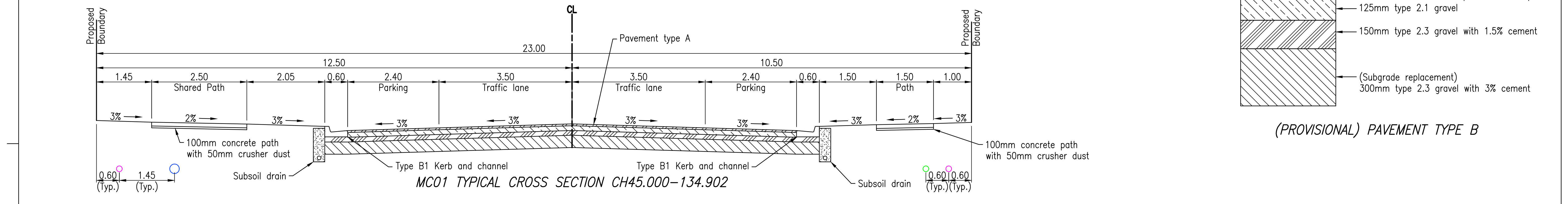
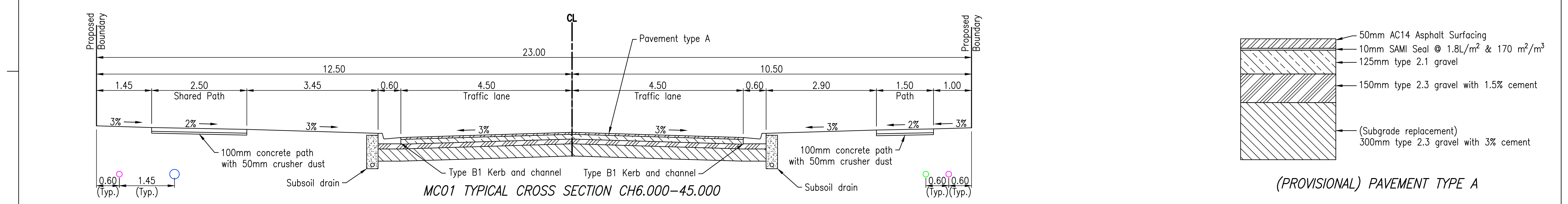
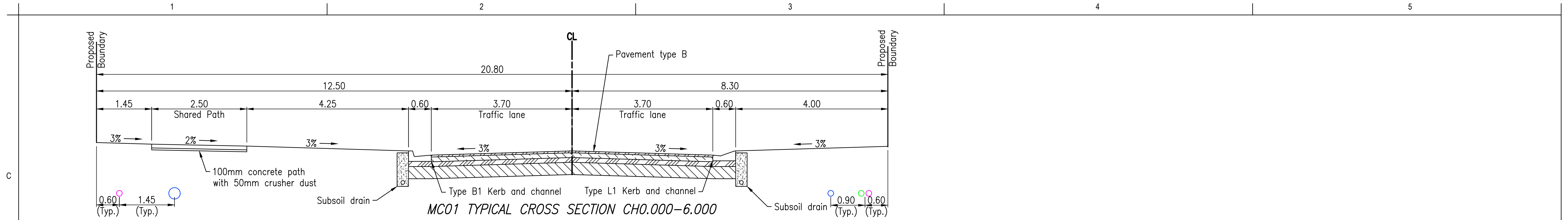
Title

ROAD LONGITUDINAL SECTIONS
SHEET 3 OF 3

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision P01 Drawing No.

304702009-STN-02-006-DR-CI-000108



- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 3. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 5. Refer drawing 304702009-STN-02-006-DR-CI-150 to 153 for linemarking and signs plan
 6. Refer drawing 304702009-STN-02-006-DR-CI-200 to 206 for sewer details and longsections
 7. Refer drawing 304702009-STN-02-006-DR-CI-300 to 303 for water reticulation
 8. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

0 1.0 2.0m

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Economic Development Queensland

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ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Revision

P01

Drawing No.

304702009-STN-02-006-DR-CI-000109

Title

ROAD TYPICAL CROSS SECTIONS

SHEET 1 OF 2

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

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Plotted: McGehee, Ron Date: 15/05/2024 4:24:05 AM

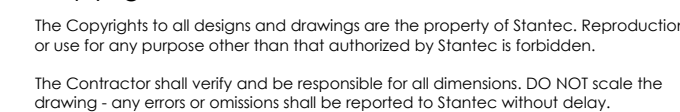


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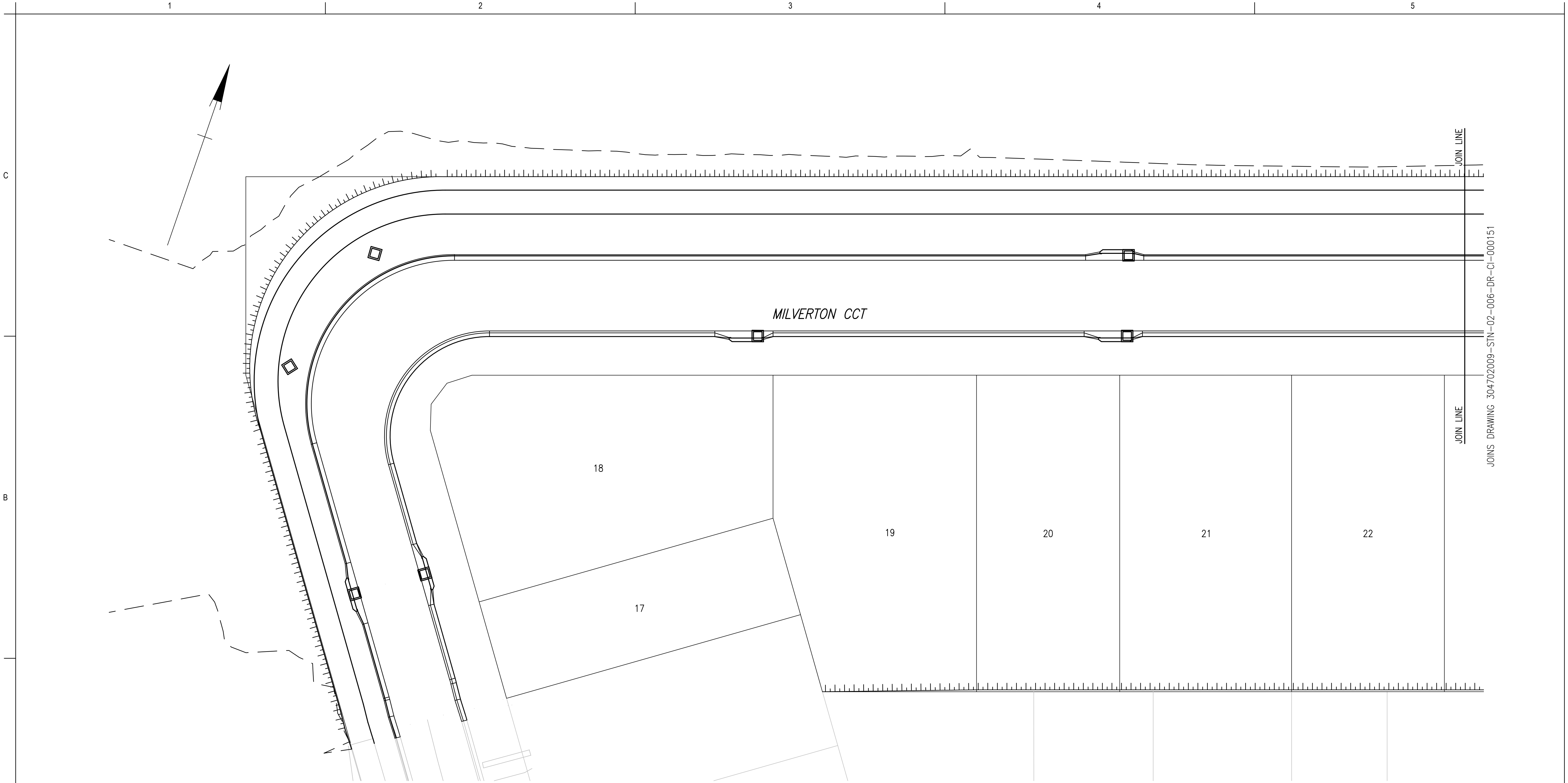
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Revision: P01 Drawing No.: 304702009-STN-02-006-DR-CI-000110



- NOTES:
- 1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - 2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
 - 3. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 - 4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections

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Printer: McGraw Hill, Date: 15/07/2024, 6:28:47 AM

02

04

06

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RM

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EAST WEST CONNECTING ROAD

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2026/05/15

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YYYY.MM.DD

Title

LINEMARKING AND SIGNS

SHEET 1 OF 4

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

Revision

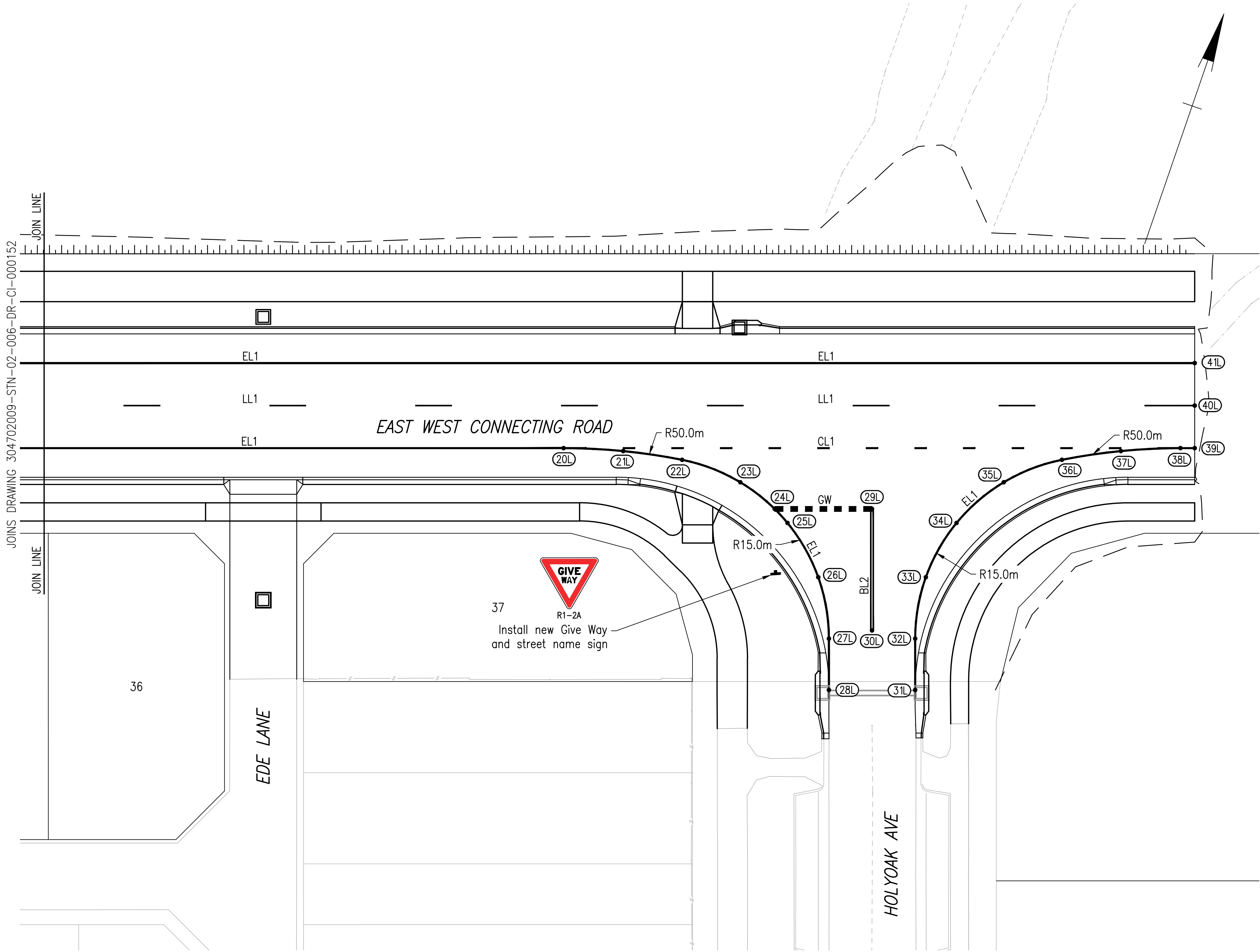
P01

Drawing No.

304702009-STN-02-006-DR-CI-000150

PAVEMENT MARKING
SETOUT

PT No.	EASTING	NORTHING
20L	480079.601	7867269.240
21L	480084.313	7867270.607
22L	480089.135	7867271.506
23L	480094.261	7867271.318
24L	480097.650	7867270.164
25L	480099.024	7867269.414
26L	480102.867	7867266.017
27L	480105.340	7867261.523
28L	480106.716	7867257.526
29L	480105.224	7867272.771
30L	480108.478	7867263.315
31L	480113.429	7867259.837
32L	480112.053	7867263.834
33L	480111.238	7867268.898
34L	480112.176	7867273.940
35L	480114.758	7867278.372
36L	480118.682	7867281.675
37L	480123.037	7867283.935
38L	480127.592	7867285.757
39L	480128.701	7867286.139
40L	480127.562	7867289.448
41L	480126.423	7867292.758



NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
4. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections

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ORIGINAL SHEET - S0 A1

0 2 4 6 8m

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ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

Title

LINEMARKING AND SIGNS
SHEET 4 OF 4

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision
P01

Drawing No.
304702009-STN-02-006-DR-CI-000153

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
4. Refer drawing 304702009-STN-02-006-DR-CI-204 to 206 for sewer longsections
5. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections

LEGEND:

- Existing sewer
Existing manhole
Proposed sewer
Proposed manhole

Ex. 9/S15E7

1/11

MILVERTON CCT

39.30m @ 1in95
USIL.4.22 - DSIL.3.805

69.0m @ 1in95
USIL.3.785 - DSIL.3.060

42.75m @ 1in180
USIL.3.040 - DSIL.2.785

5/12

L=0.0
IL.4.173
X=1.5
Y=0.0
TYPE DC

L=18.0
IL.4.104
X=1.5
Y=0.5
TYPE SD

L=3.0
IL.4.017
X=1.5
Y=0.5
TYPE SD

4/12

L=54.0
IL.4.068
X=1.5
Y=0.5
TYPE SD

L=38.0
IL.4.081
X=1.5
Y=0.5
TYPE JU

L=23.0
IL.4.015
X=1.5
Y=0.5
TYPE JU

L=6.5
IL.3.913
X=1.5
Y=0.5
TYPE JU

3/12

L=24.7
IL.3.901
X=1.5
Y=0.5
TYPE JU

1/13

L=11.65
IL.3.624
X=2.5
Y=1.5
TYPE DC

L=0.0
IL. UNKNOWN
X=2.5
Y=1.5
TYPE EX

17

L=0.0
IL.4.150
X=2.5
Y=0.0
TYPE DC

18

19

20

21

22

23

24

25

26

27

16.90m @ 1in95
USIL.4.060 - DSIL.3.883

Connect into existing sewer manhole
by council at contractor's cost

Ex. 9/S15E7

Ex. 8/S15E7

0 2 4 6 8 10m

P01 FOR APPROVAL
Issued/Revision

RM
By

BM
Appd

2026/05/15
YYYY.MM.DD

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Datum
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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM
Dwn.

LV
Dsgn.

GJ
Chkd.

BM
Appd.

2026/05/15
YYYY.MM.DD

Title

SEWER LAYOUT PLAN
SHEET 1 OF 4

Project No.
304702009

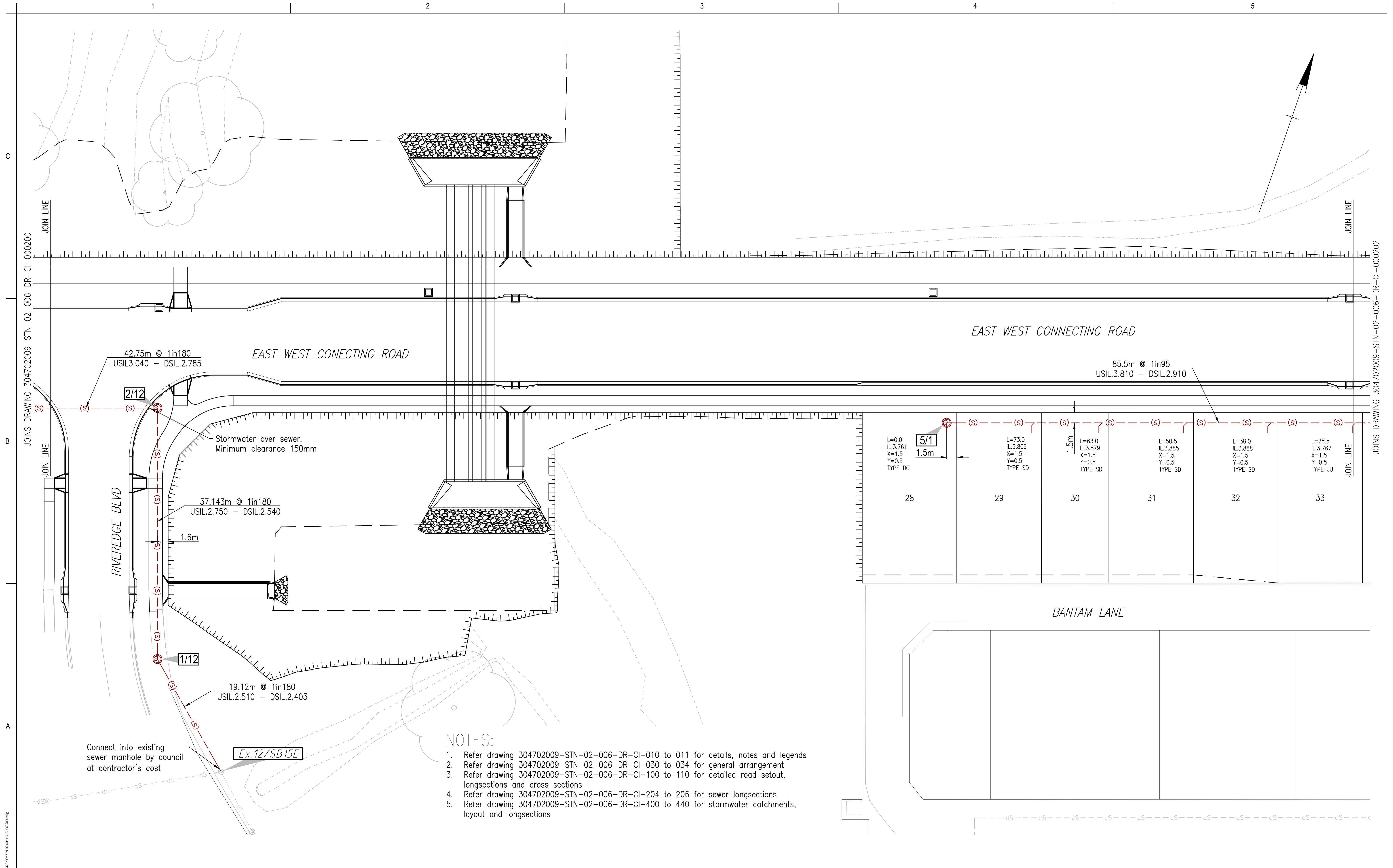
Auth. Ref.
BM 24432

Scale at A1
AS SHOWN

Revision
P01

Drawing No.

304702009-STN-02-006-DR-CI-000200



02

04

06

08

10

10m

RM

BM

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Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

Revision

P01

Drawing No.

304702009-STN-02-006-DR-CI-000201

Title

SEWER LAYOUT PLAN

SHEET 2 OF 4

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

RM

LV

GJ

BM

2026/05/15

Dwn.

Dsgn.

Chkd.

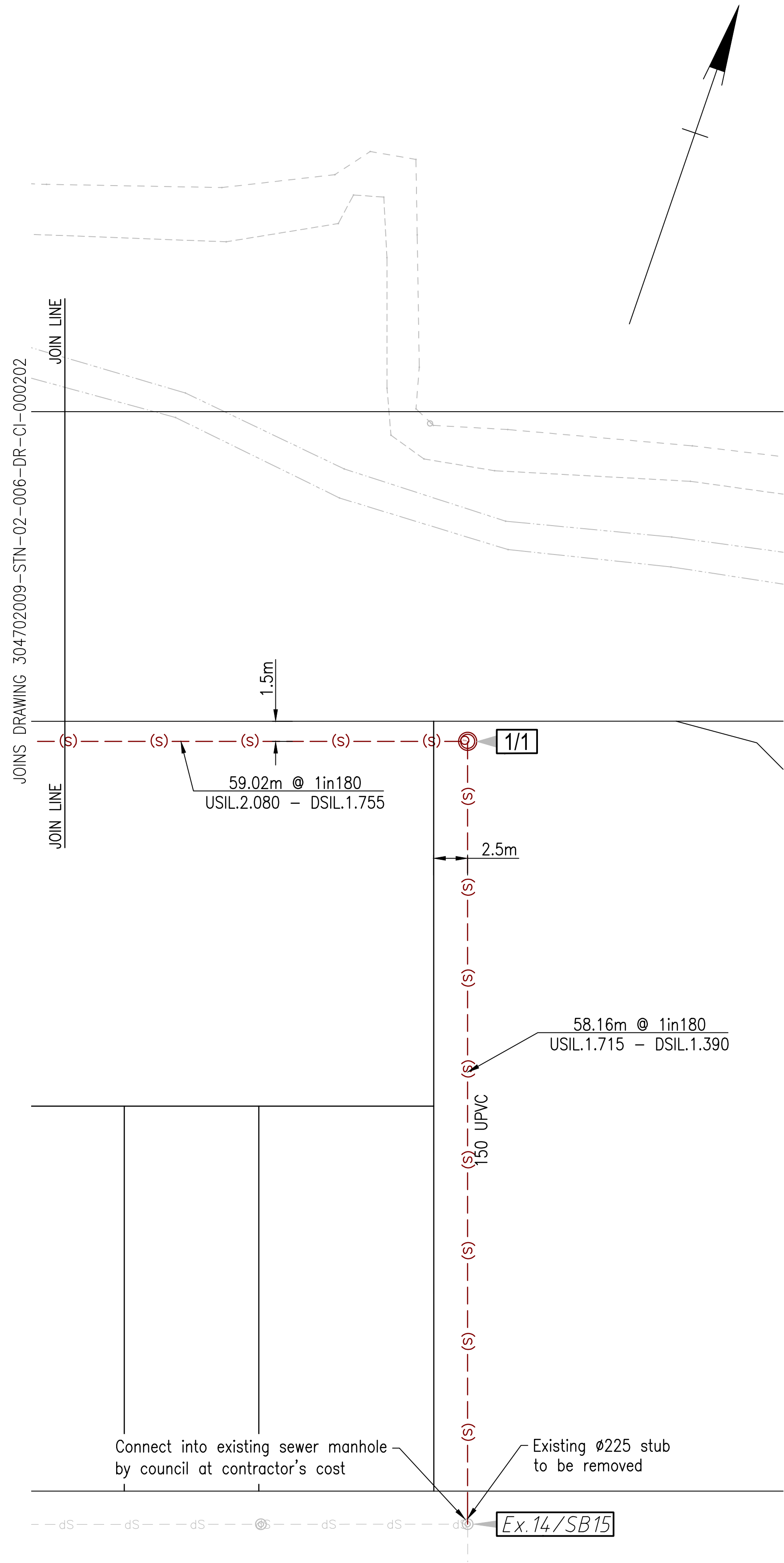
Appd.

YYYY.MM.DD

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Plotted: McGeehan, Ron Date: 15/01/2024 4:27:35 AM

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
4. Refer drawing 304702009-STN-02-006-DR-CI-204 to 206 for sewer longsections
5. Refer drawing 304702009-STN-02-006-DR-CI-400 to 440 for stormwater catchments, layout and longsections



Connect into existing sewer manhole
by council at contractor's cost

Existing Ø225 stub
to be removed

Ex. 14/SB15

0 2 4 6 8 10m

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Issued/Revision	By	Appd	YYYY.MM.DD

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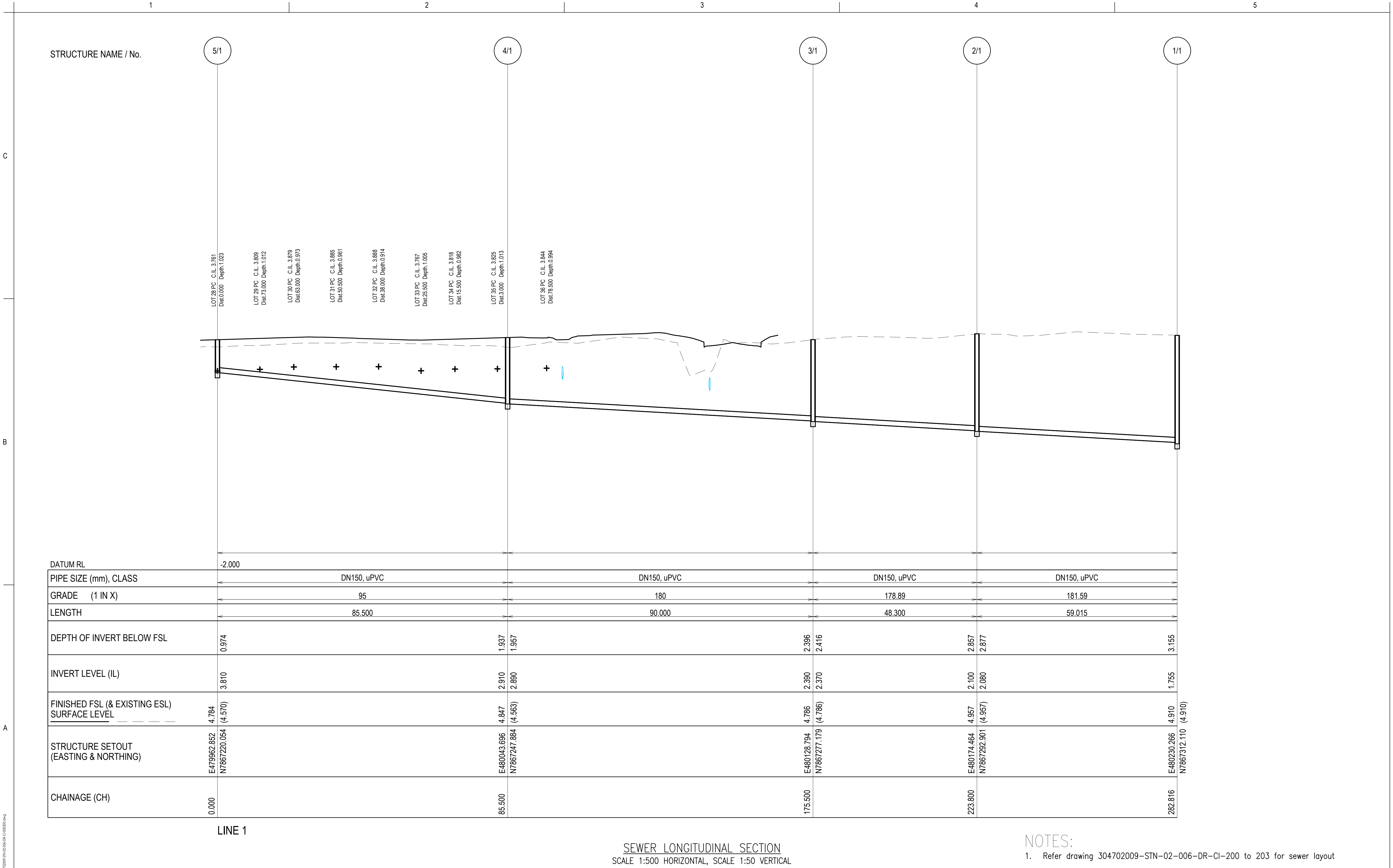
Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM	LV	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title
SEWER LAYOUT PLAN
SHEET 4 OF 4

Project No.	Auth. Ref.	Scale at A1
304702009	BM 24432	AS SHOWN

Revision	Drawing No.
P01	304702009-STN-02-006-DR-CI-000203

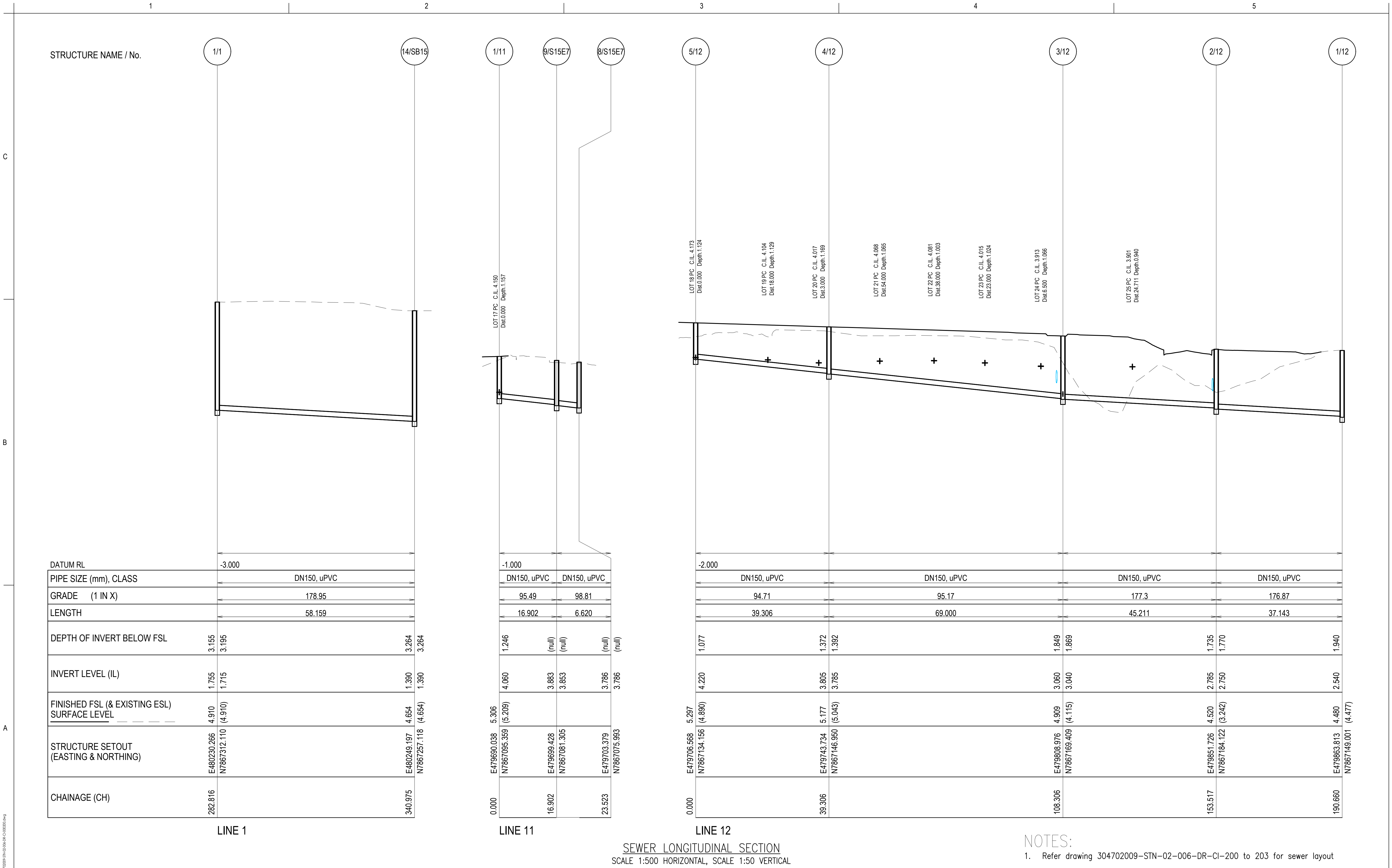


SEWER LONGITUDINAL SECTION

SCALE 1:500 HORIZONTAL, SCALE 1:50 VERTICAL

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-200 to 203 for sewer layout



0 5 10 15 20m

0 1.0 2.0m

RM

LV

GJ

BM

2026/05/15

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Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

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EAST WEST CONNECTING ROAD

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Title

SEWER LONGITUDINAL SECTION

SHEET 2 OF 3

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

Revision

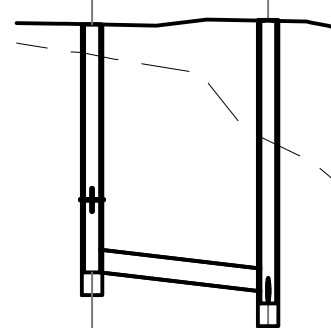
P01

Drawing No.

304702009-STN-02-006-DR-CI-000205

ORIGINAL SHEET - SD A1

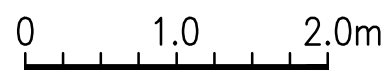
3/12



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	N7867158.392	(4.686)	3.245						DN150, uPVC	
									93.22	
									11.652	
0.000										
	E479808.976	4.909	3.120	1.789						
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LINE 13

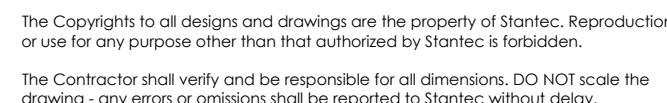
1. Refer drawing 304702009-STN-02-006-DR-CI-200 to 203 for sewer layout



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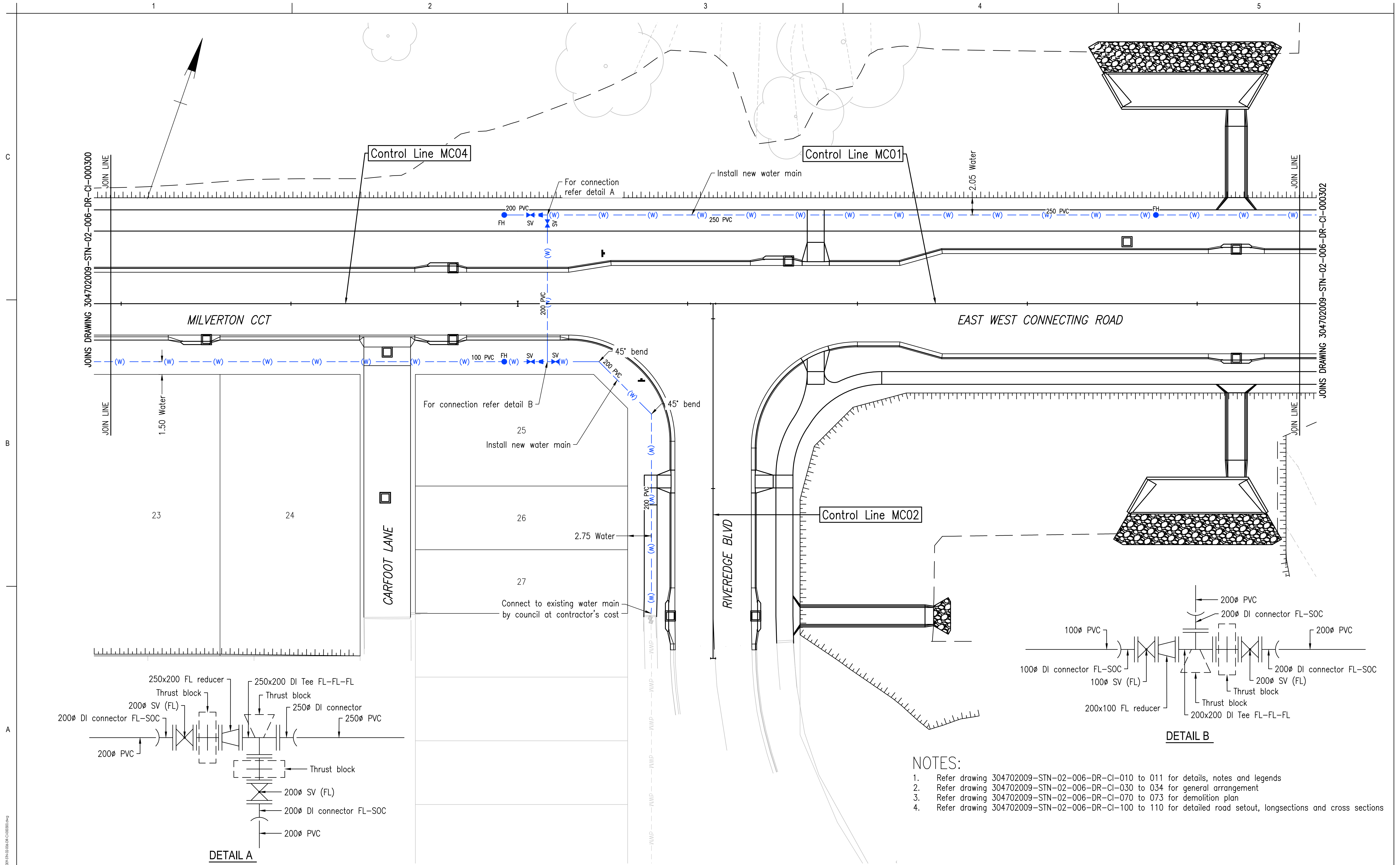
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Queensland

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Revision	Drawing No.
P01	304702009-STN-02-006-DR-CI-000206



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Plotted: McGehee, Ron Date: 15/01/2024 4:50:09 AM

0 2 4 6 8m

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RM BM 2026/05/15
By Appd YYYY.MM.DD

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Datum
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Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

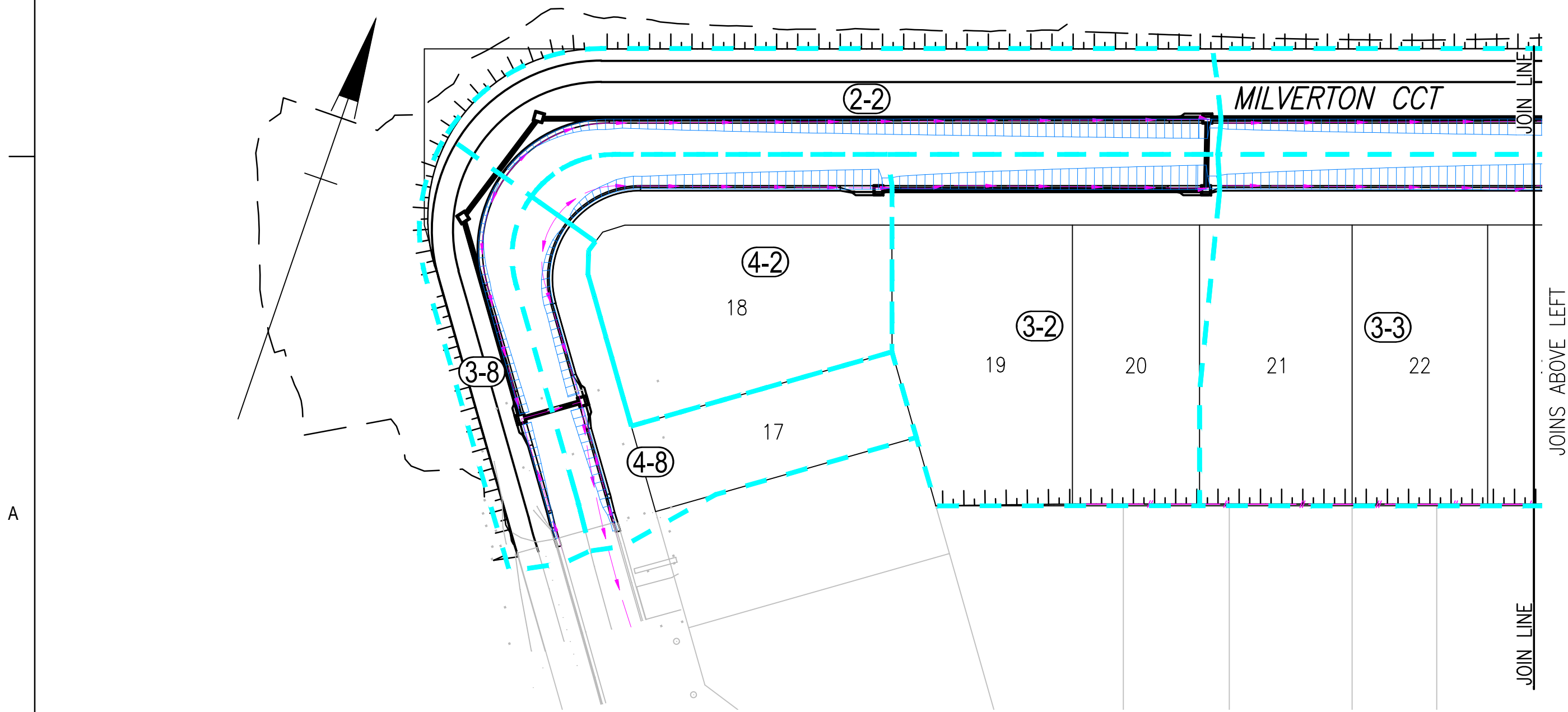
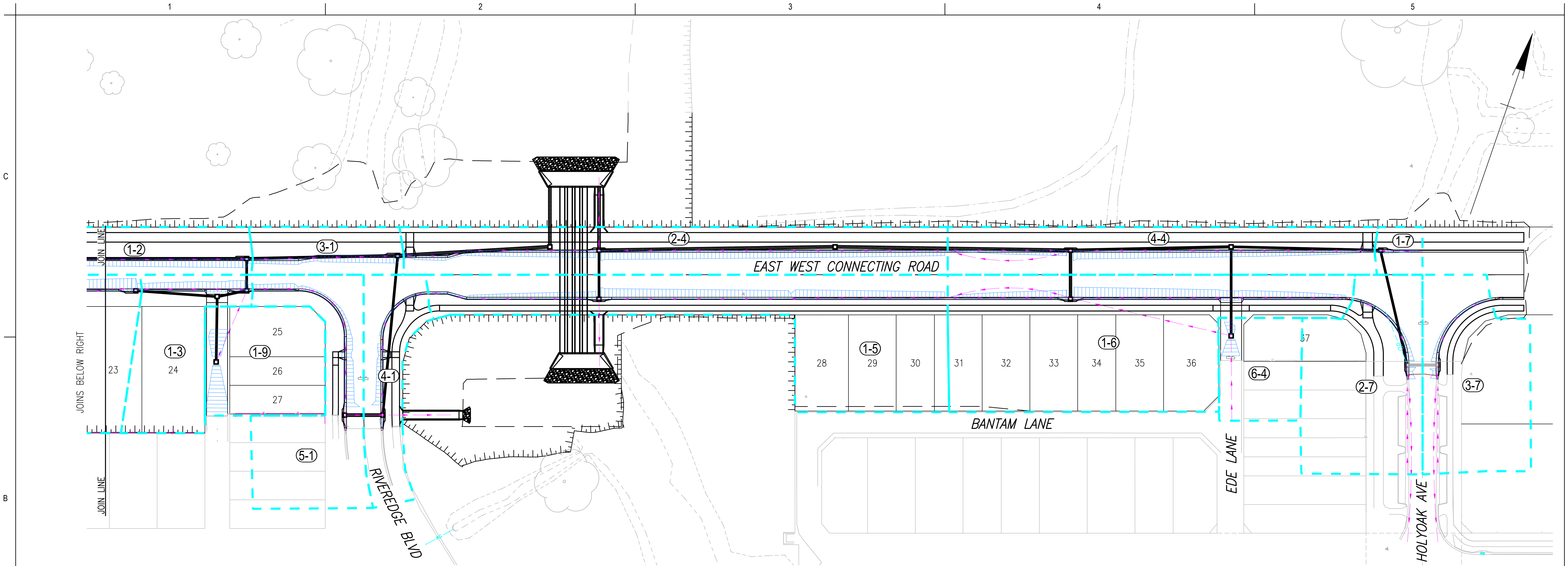
Title

WATER RETICULATION
SHEET 2 OF 4

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision Drawing No.

P01 304702009-STN-02-006-DR-CI-000301



STORMWATER CATCHMENTS	
CATCHMENT NUMBER	AREA (HA)
3-1	0.0450
4-1	0.0725
5-1	0.1840
1-2	0.0944
2-2	0.1112
3-2	0.1498
4-2	0.1003
1-3	0.0891
3-3	0.1892
2-4	0.1764
4-4	0.1402
6-4	0.0582
1-5	0.2456
1-6	0.0582
1-7	0.0152
2-7	0.1509
3-7	0.1342
3-8	0.0508
4-8	0.0684

- LEGEND
- Flood Width
 - Flow Arrow
 - Catchment Boundary
 - Catchment Label

- NOTES:
- Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 - Refer drawing 304702009-STN-02-006-DR-CI-410 to 413 for stormwater layout
 - Refer drawing 304702009-STN-02-006-DR-CI-420 for culvert details
 - Refer drawing 304702009-STN-02-006-DR-CI-430 to 432 for stormwater longsection

U:\304702009\Technical\Drawings\Working\Separable\Joiner\304702009-STN-02-006-DR-CI-000400.dwg
Plotted: McGeehan, Ron Date: 15/01/2024 4:27:08 AM

0 5 10 15 20m

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2026/05/15

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Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

EAST WEST CONNECTING ROAD

RM

LV

GJ

BM

2026/05/15

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Dsgn.

Chkd.

Appd.

YYYY.MM.DD

Title

STORMWATER CATCHMENT

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

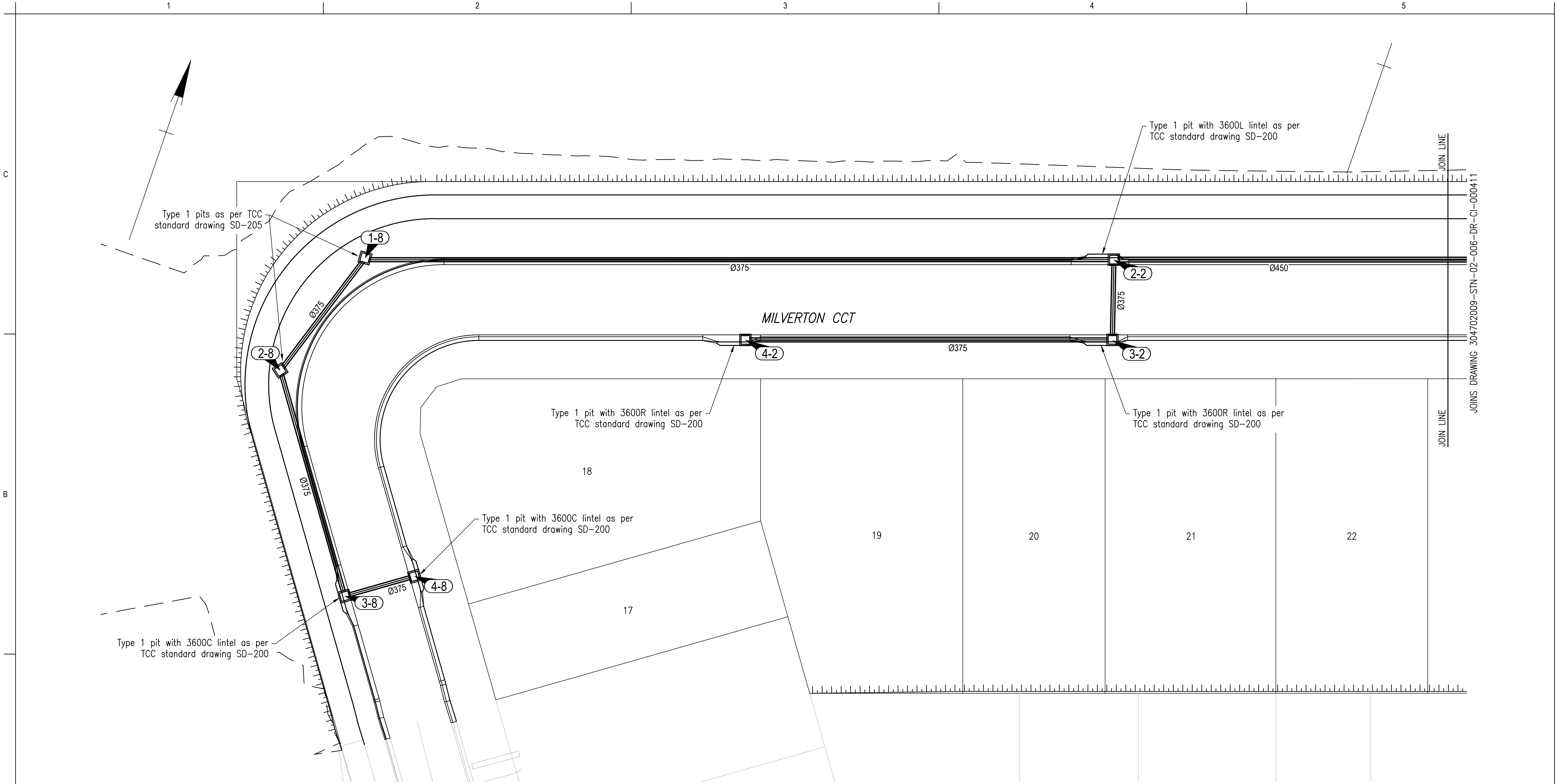
AS SHOWN

Revision

P01

Drawing No.

304702009-STN-02-006-DR-CI-000400



- NOTES:
1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
 3. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
 4. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
 5. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
 6. Refer drawing 304702009-STN-02-006-DR-CI-414 for batter chute inserts and details
 7. Refer drawing 304702009-STN-02-006-DR-CI-420 for culvert details
 8. Refer drawing 304702009-STN-02-006-DR-CI-430 to 432 for stormwater longsection
 9. Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations

U:\304702009\Technical drawings\working\Separable\Joiner\304702009-STN-02-006-DR-CI-000411.dwg
Plotted: McGeehan, Ryan Date: 15/07/2024 6:29:18 AM

0 2 4 6 8m

P01 FOR APPROVAL	RM	BM	2026/05/15
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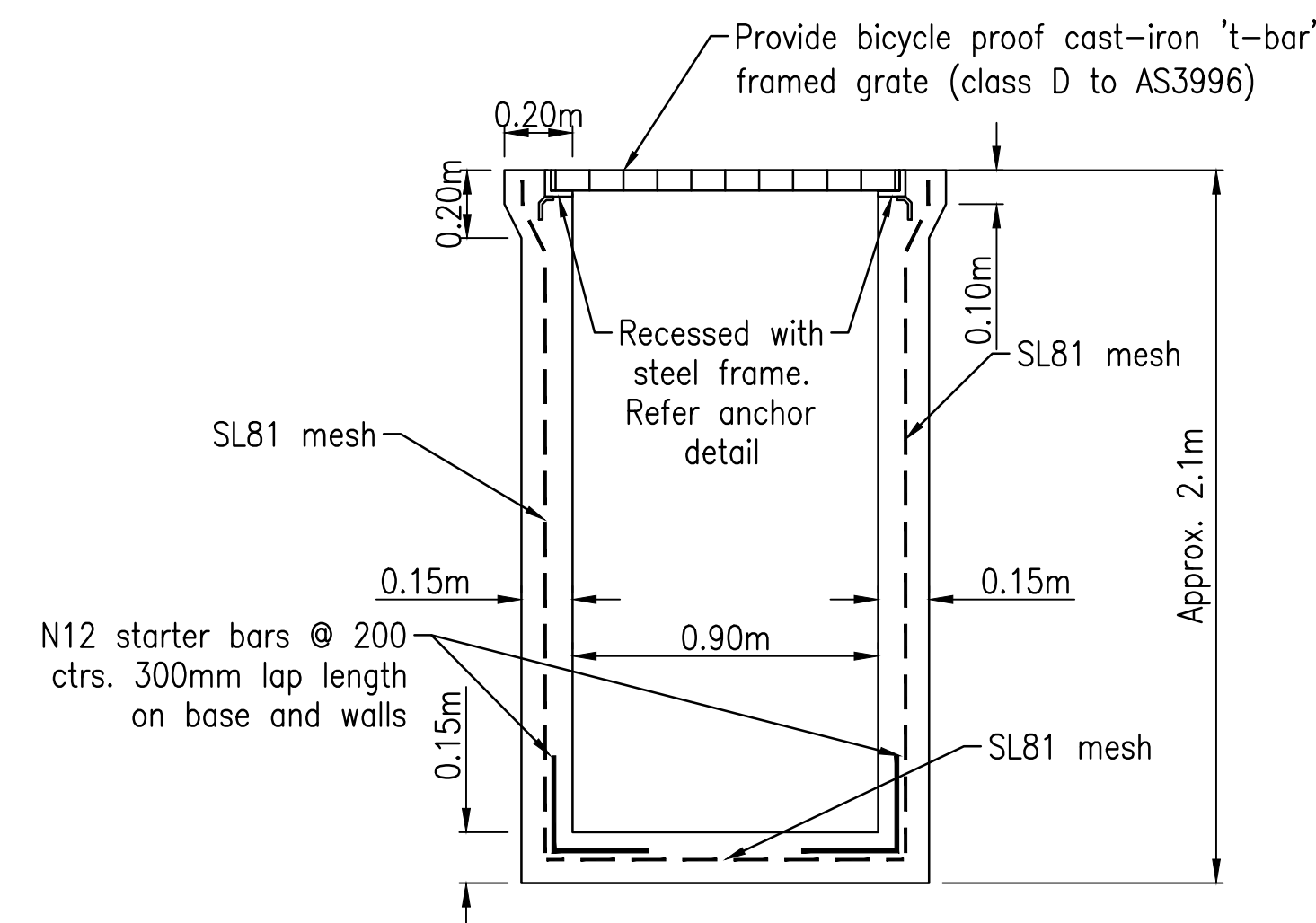
Client/Project
ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM	LV	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

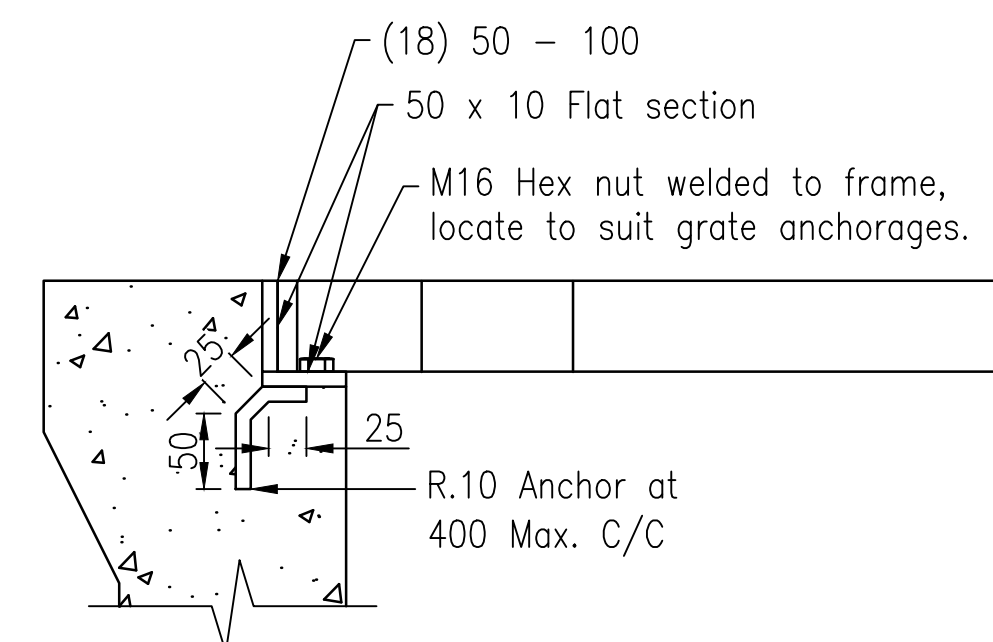
Title
STORMWATER LAYOUT
SHEET 1 OF 4

Project No. 304702009	Auth. Ref. BM 24432	Scale at A1 AS SHOWN
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Revision P01	Drawing No. 304702009-STN-02-006-DR-CI-000410
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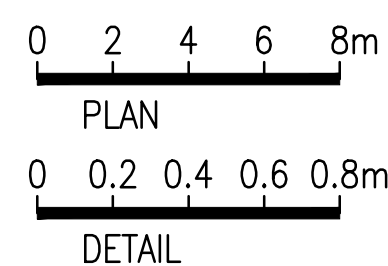


SCALE 1:20 @ A1



NOT TO SCALE

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
4. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
5. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
6. Refer drawing 304702009-STN-02-006-DR-CI-414 for batter chute inserts and details
7. Refer drawing 304702009-STN-02-006-DR-CI-420 for culvert details
8. Refer drawing 304702009-STN-02-006-DR-CI-430 to 432 for stormwater longsection
9. Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations



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Client/Project

EAST WEST CONNECTING ROAD

Title

STORMWATER LAYOUT
SHEET 4 OF 4

Project No.

Auth. Ref.

BM 2443:

Scale at A1

AS SHOWN

Revision

Drawing No.

P01

304702009-STN-02-006-DR-CI-000413

RM	LV	GJ	BM	2026/05/15
Dwn	Dsnp	Chkd	Appd	YYYY MM DD

C

C

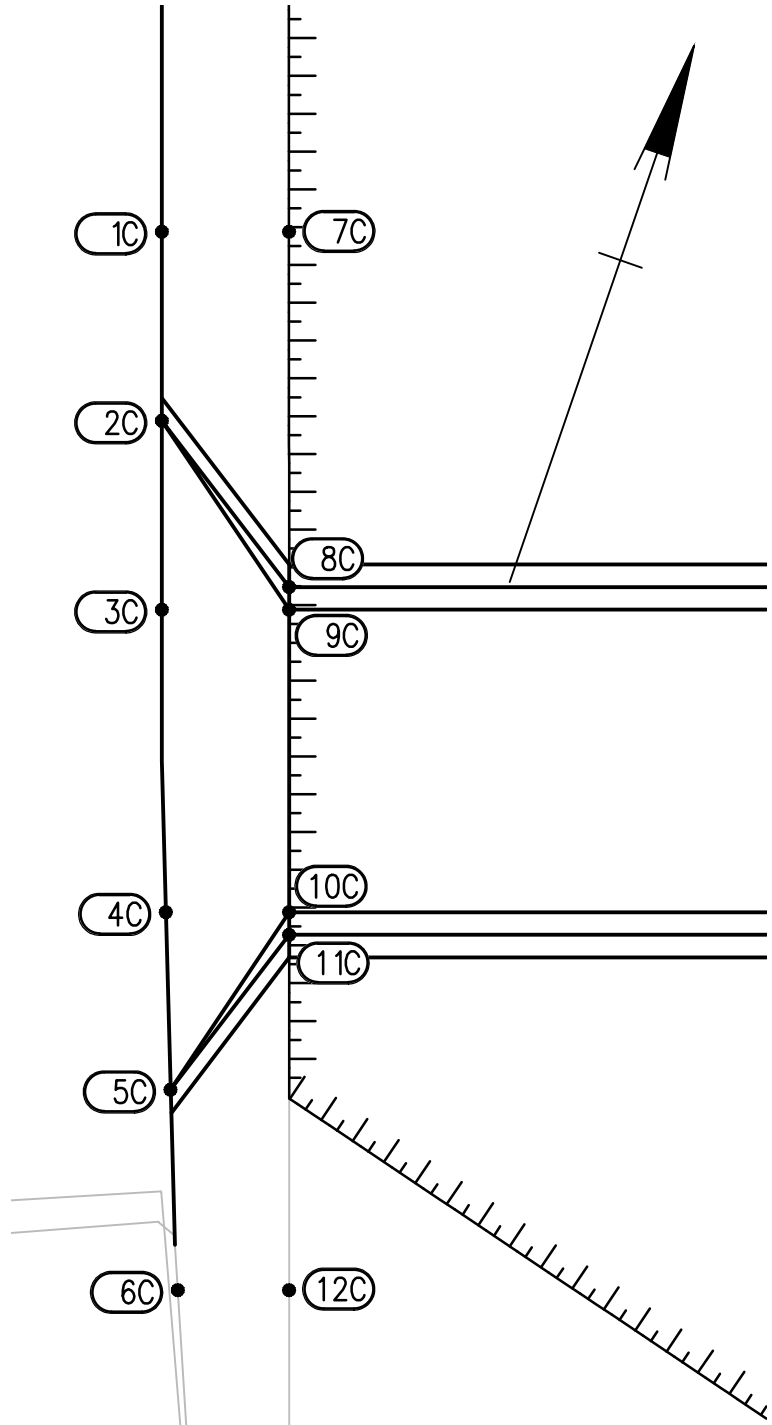
B

A

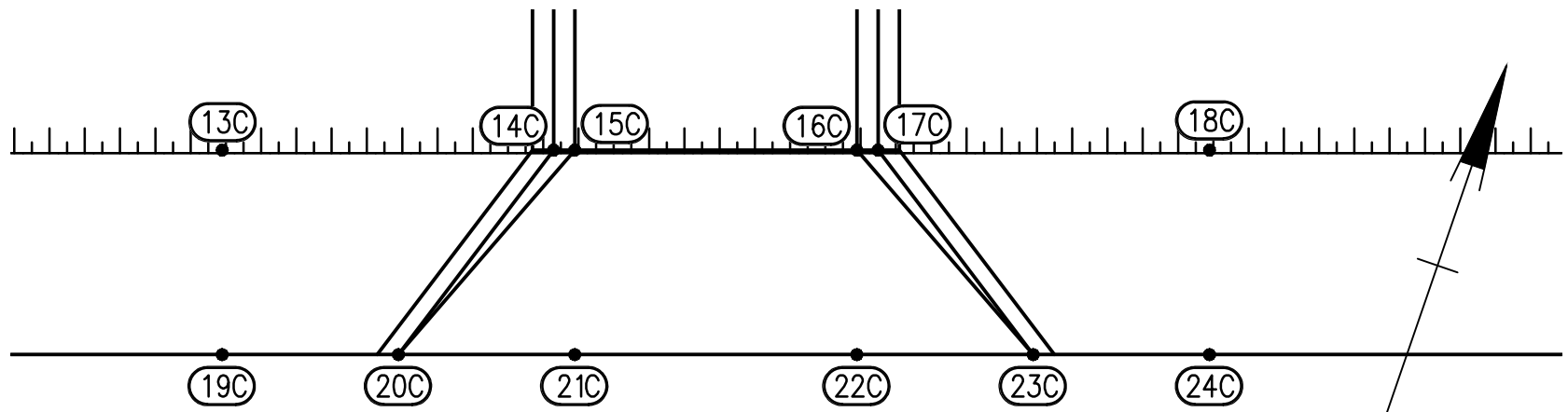
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Plotted: McGeehan, Ron Date: 15/05/2024 6:30:07 AM

BATTER CHUTE SETOUT POINTS

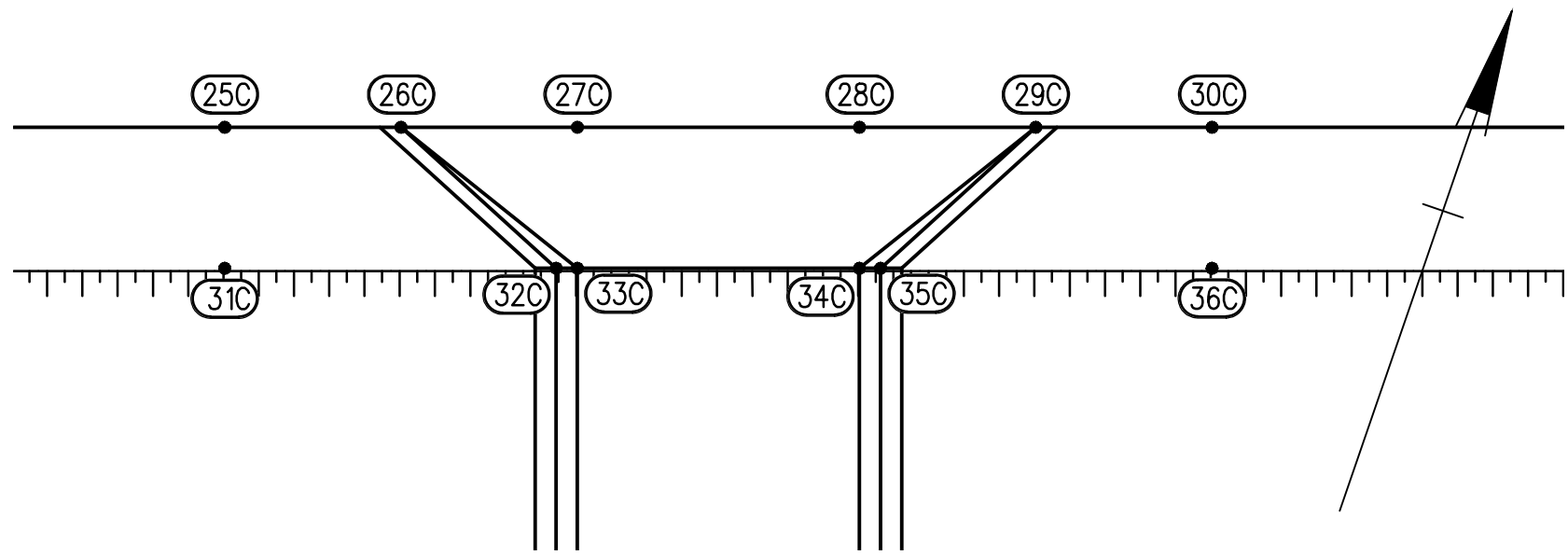
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3C	479860.879	7867159.832	4.388
4C	479861.555	7867157.949	4.392
5C	479861.966	7867156.849	4.415
6C	479862.443	7867155.611	4.445
7C	479860.860	7867162.470	4.478
8C	479861.625	7867160.248	4.444
9C	479861.674	7867160.106	4.324
10C	479862.325	7867158.215	4.331
11C	479862.374	7867158.073	4.436
12C	479863.139	7867155.851	4.445
13C	479891.234	7867221.333	4.640
14C	479893.456	7867222.097	4.609
15C	479893.598	7867222.146	4.493
16C	479895.489	7867222.797	4.492
17C	479895.631	7867222.846	4.608
18C	479897.853	7867223.611	4.640
19C	479891.706	7867219.962	4.601
20C	479892.888	7867220.368	4.564
21C	479894.070	7867220.775	4.528
22C	479895.961	7867221.426	4.528
23C	479897.143	7867221.833	4.564
24C	479898.325	7867222.240	4.601
25C	479898.394	7867200.530	4.565
26C	479899.576	7867200.937	4.538
27C	479900.758	7867201.344	4.512
28C	479902.649	7867201.995	4.512
29C	479903.831	7867202.401	4.538
30C	479905.013	7867202.808	4.565
31C	479898.719	7867199.585	4.595
32C	479900.941	7867200.349	4.588
33C	479901.083	7867200.398	4.438
34C	479902.974	7867201.049	4.437
35C	479903.116	7867201.098	4.587
36C	479905.338	7867201.863	4.595



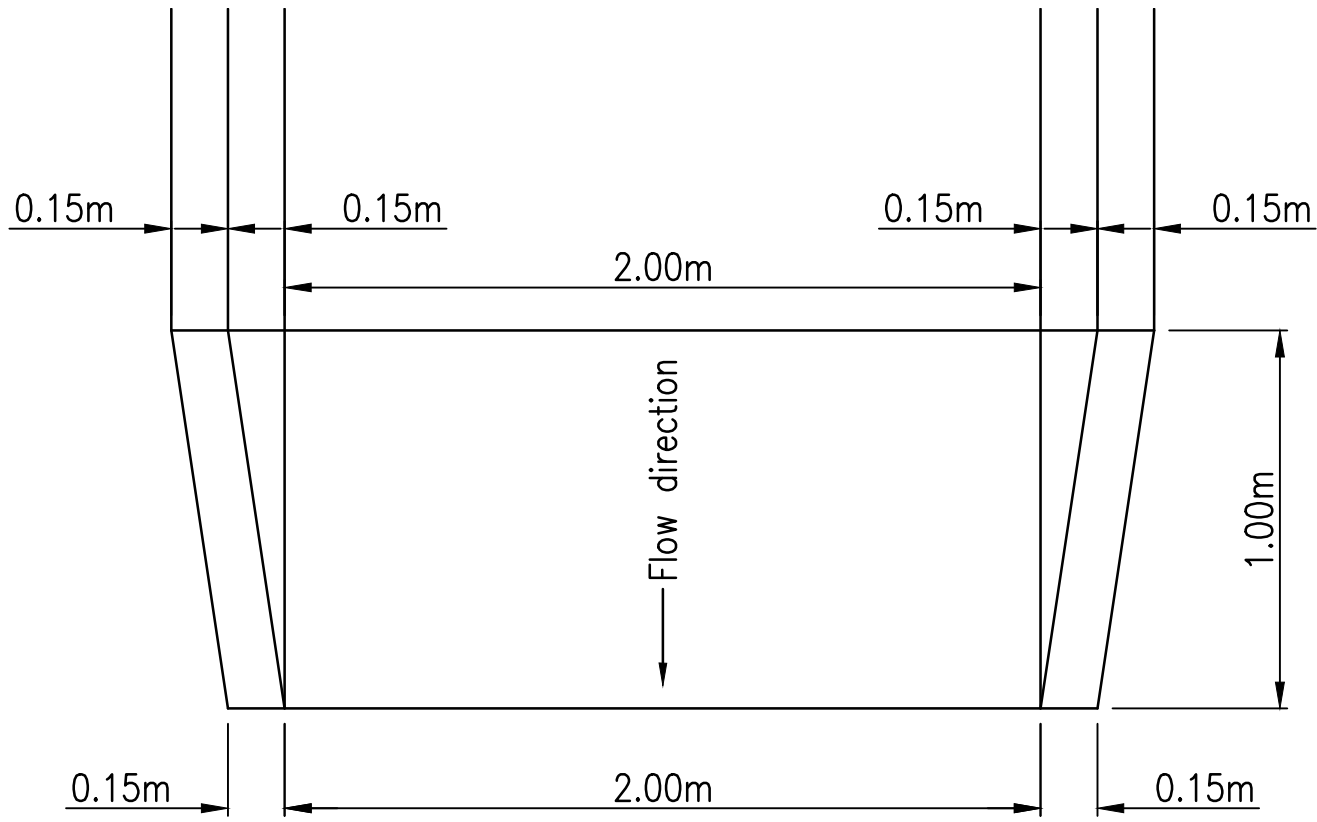
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INSERT B

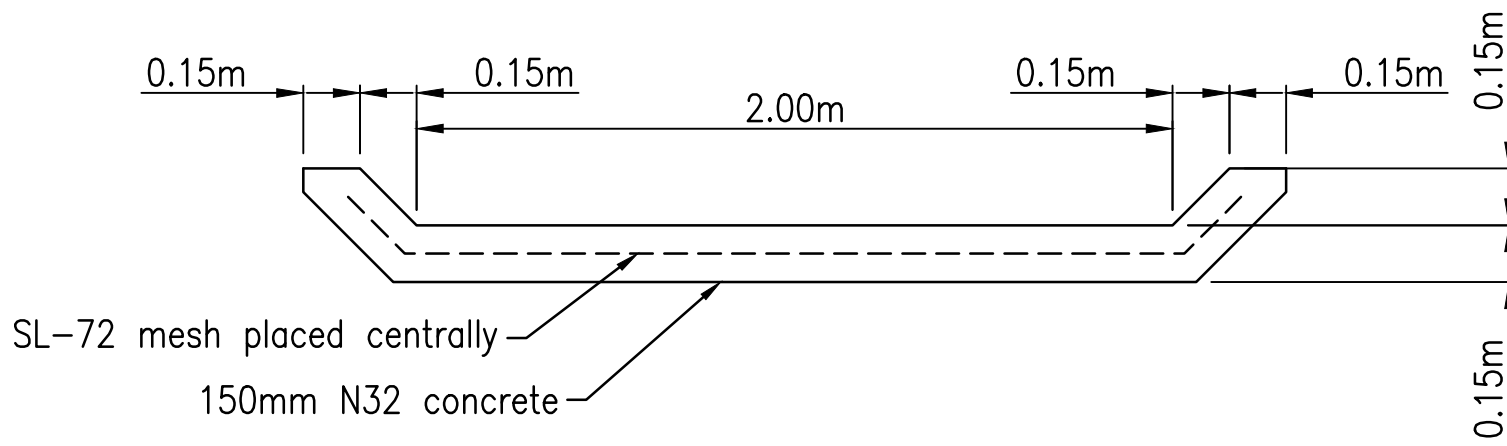


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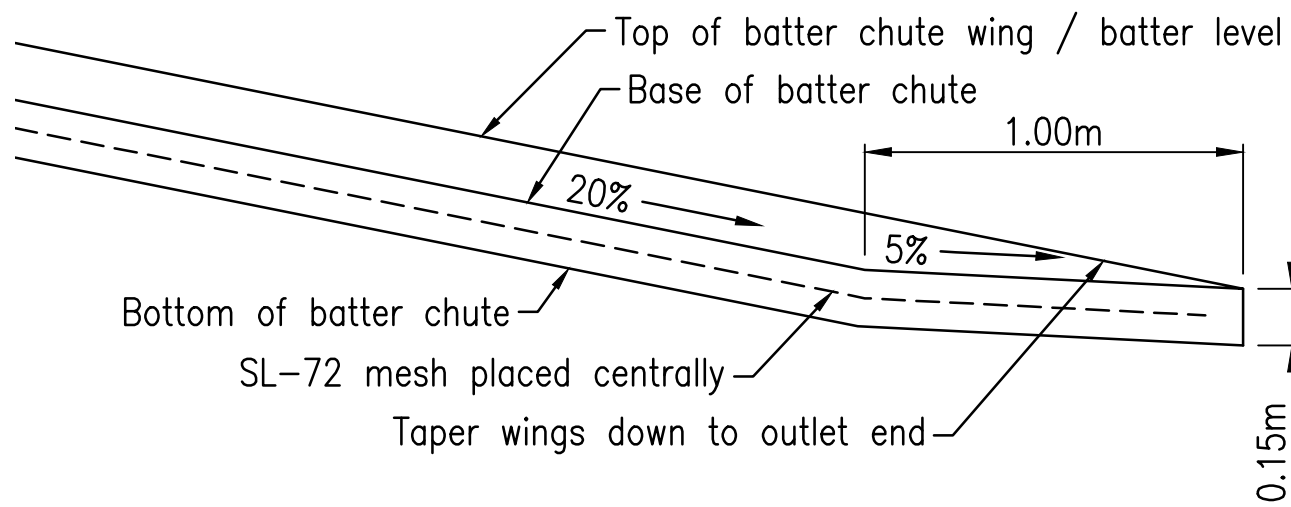
BATTER CHUTE A OUTLET PLAN

1:20



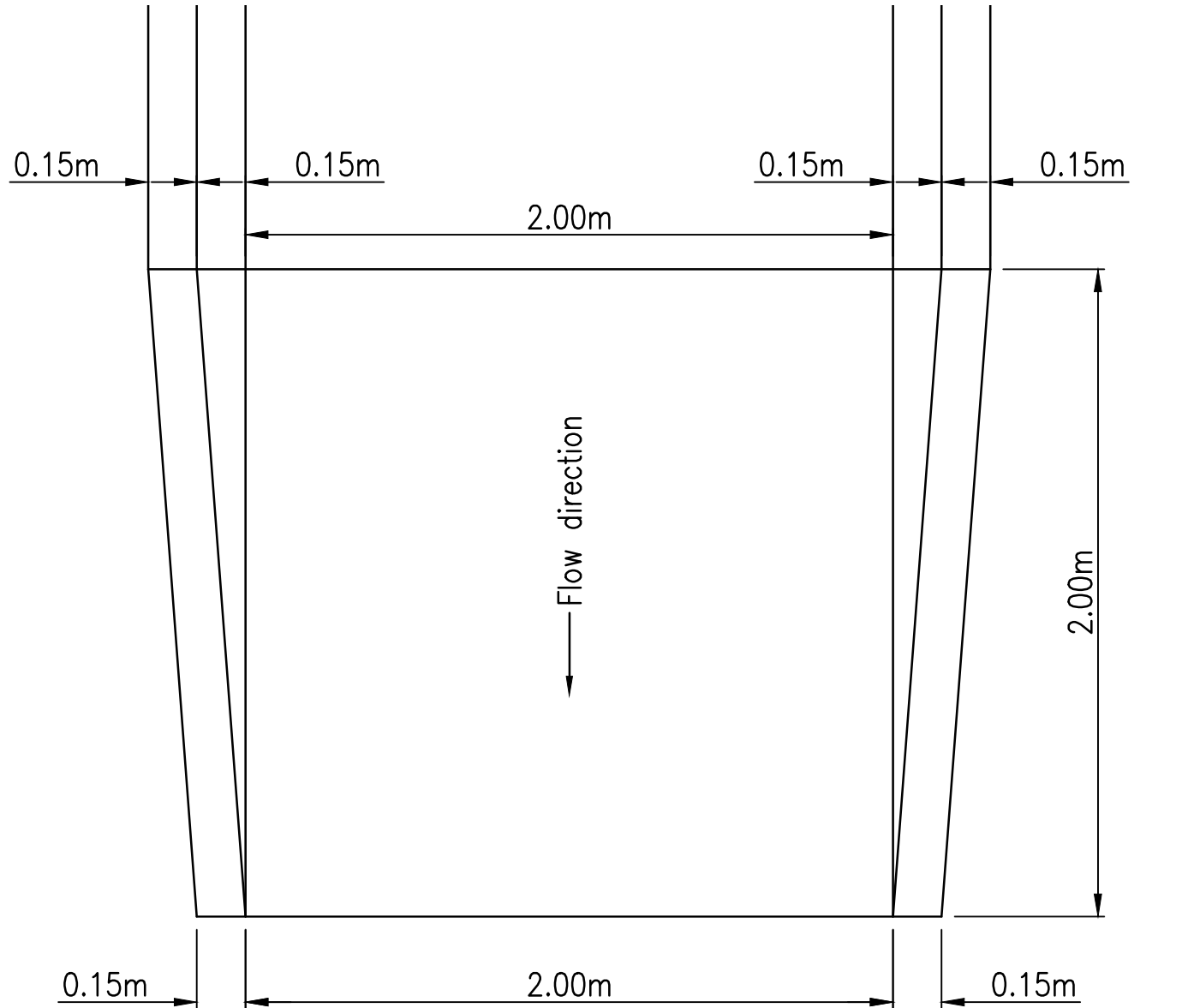
BATTER CHUTE A TYPICAL SECTION

1:20



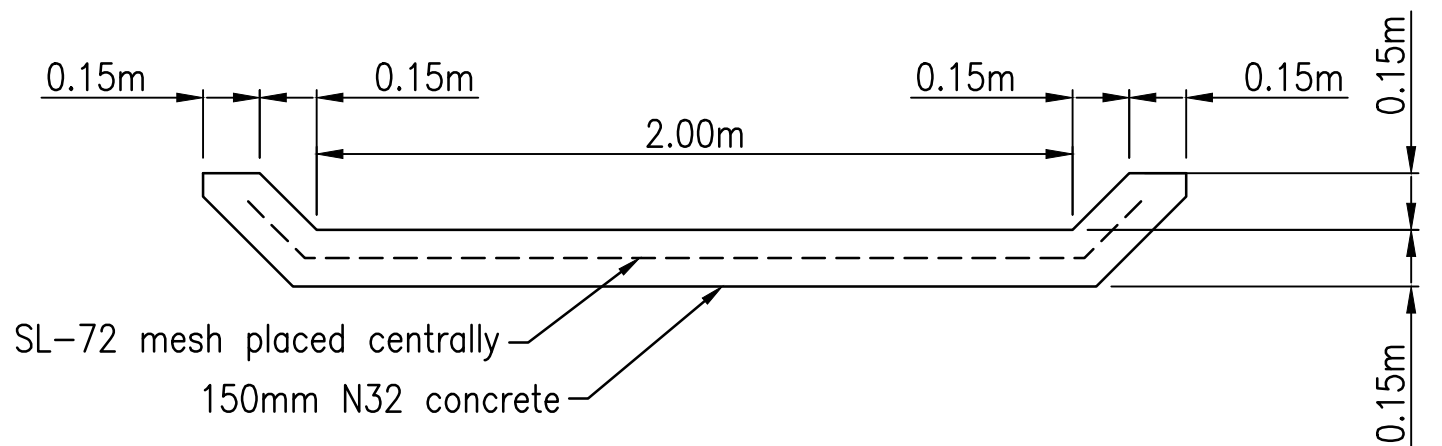
BATTER CHUTE A OUTLET ELEVATION

1:20



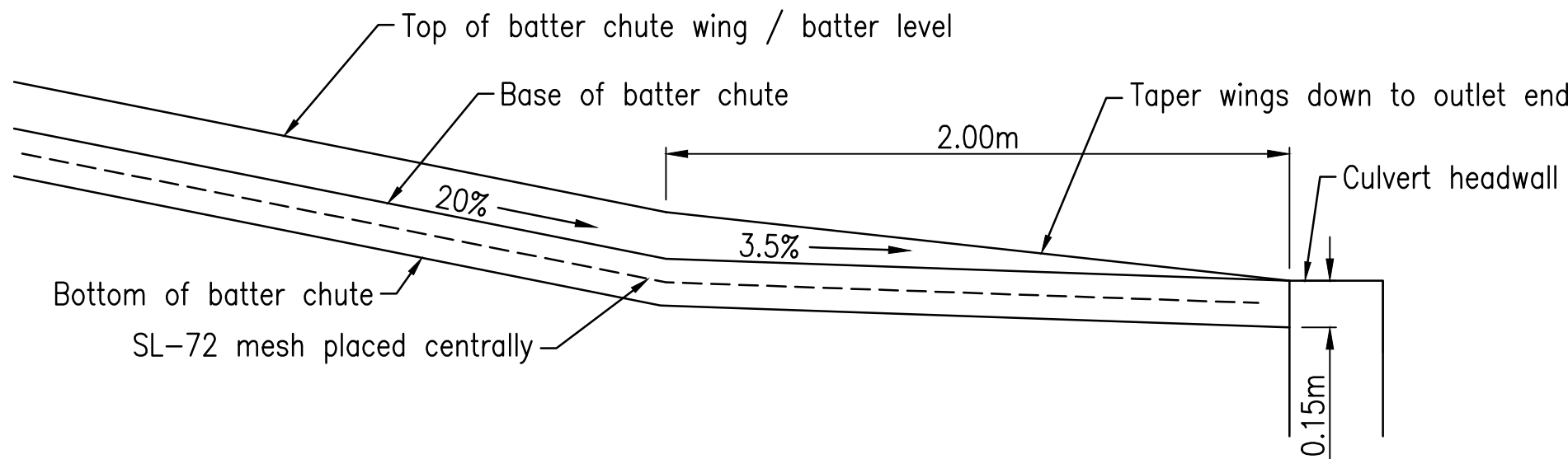
BATTER CHUTE B & C OUTLET PLAN

1:20



BATTER CHUTE B & C TYPICAL SECTION

1:20



BATTER CHUTE B & C OUTLET ELEVATION

1:20

NOTES:

1. Refer drawing 304702009-STN-02-006-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-006-DR-CI-030 to 034 for general arrangement
3. Refer drawing 304702009-STN-02-006-DR-CI-070 to 073 for demolition plan
4. Refer drawing 304702009-STN-02-006-DR-CI-090 to 095 for earthworks
5. Refer drawing 304702009-STN-02-006-DR-CI-100 to 110 for detailed road setout, longsections and cross sections
6. Refer drawing 304702009-STN-02-006-DR-CI-414 for batter chute inserts and details
7. Refer drawing 304702009-STN-02-006-DR-CI-420 for culvert details
8. Refer drawing 304702009-STN-02-006-DR-CI-430 to 432 for stormwater longsection
9. Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations

0 1.0 2.0m

0 0.2 0.4 0.6 0.8m

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By Appd YYYY.MM.DD

Issue Status

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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

Title

STORMWATER
BATTER CHUTE DETAILS

Project No. 304702009
Auth. Ref. BM 24432

Scale at A1
AS SHOWN

Revision
P01

Drawing No.

304702009-STN-02-006-DR-CI-000414

RM RM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD



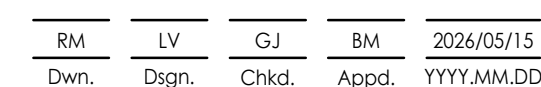
CULVERT 01 - SECTION A

1:100

1

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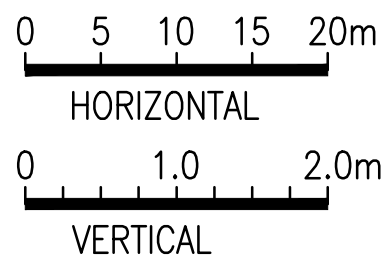
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[illegible]

NOTES:

1. All pipes below tail water R.L 3.08 to be exposure class C2
2. Refer drawing 304702009-STN-02-006-DR-CI-400 for stormwater catchments
3. Refer drawing 304702009-STN-02-006-DR-CI-410 to 414 for stormwater layout and details
4. Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations



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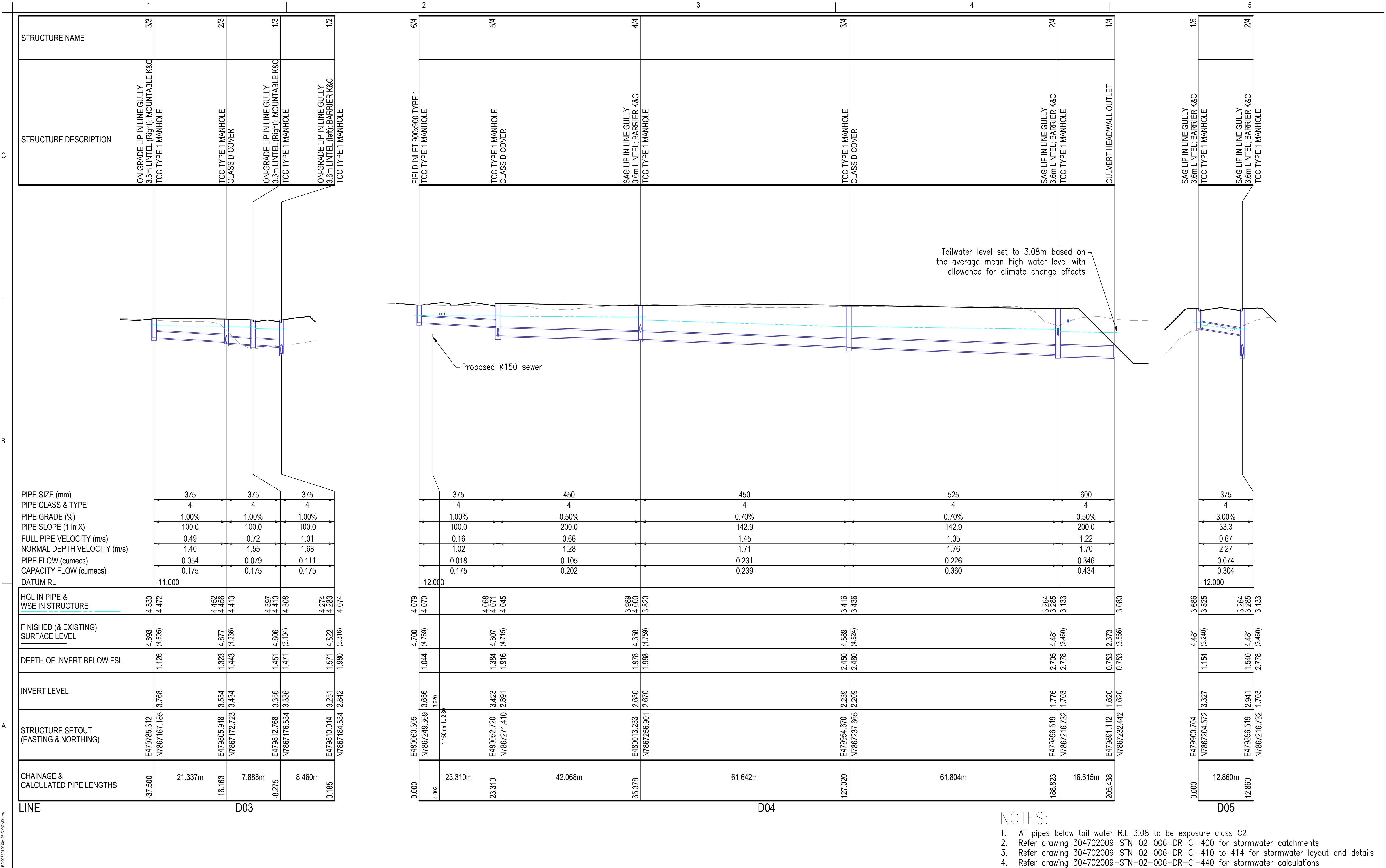
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ECONOMIC DEVELOPMENT QUEENSLAND
OONONBA PDA
EAST WEST CONNECTING ROAD

Title		
STORMWATER LONGSECTIONS SHEET 1 OF 3		
Project No. 304702009	Auth. Ref. BM 24432	Scale at A1 AS SHOWN
Revision P01	Drawing No. 304702009-STN-02-006-DR-CI-000430	

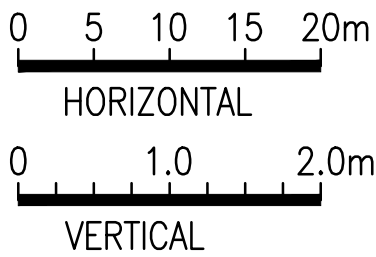


NOTES:

- All pipes below tail water R.L 3.08 to be exposure class C2
- Refer drawing 304702009-STN-02-006-DR-CI-400 for stormwater catchments
- Refer drawing 304702009-STN-02-006-DR-CI-410 to 414 for stormwater layout and details
- Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations

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ORIGINAL SHEET - SD A1



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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
EAST WEST CONNECTING ROAD

RM
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LV
Dsgn.

GJ
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Title

STORMWATER LONGSECTIONS
SHEET 2 OF 3

Project No.
304702009

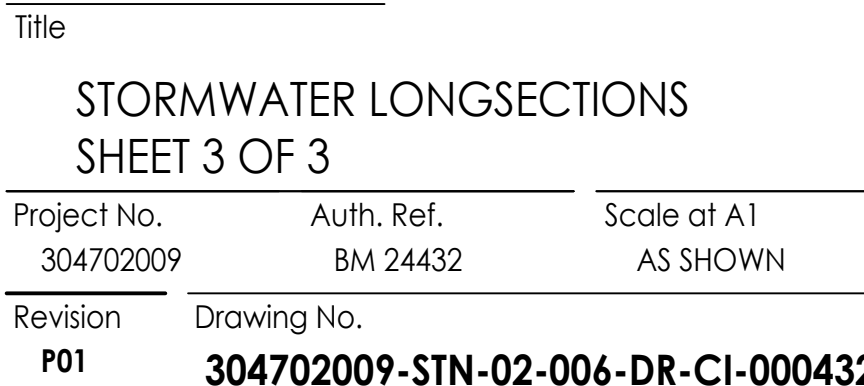
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Scale at A1
AS SHOWN

Revision
P01

Drawing No.
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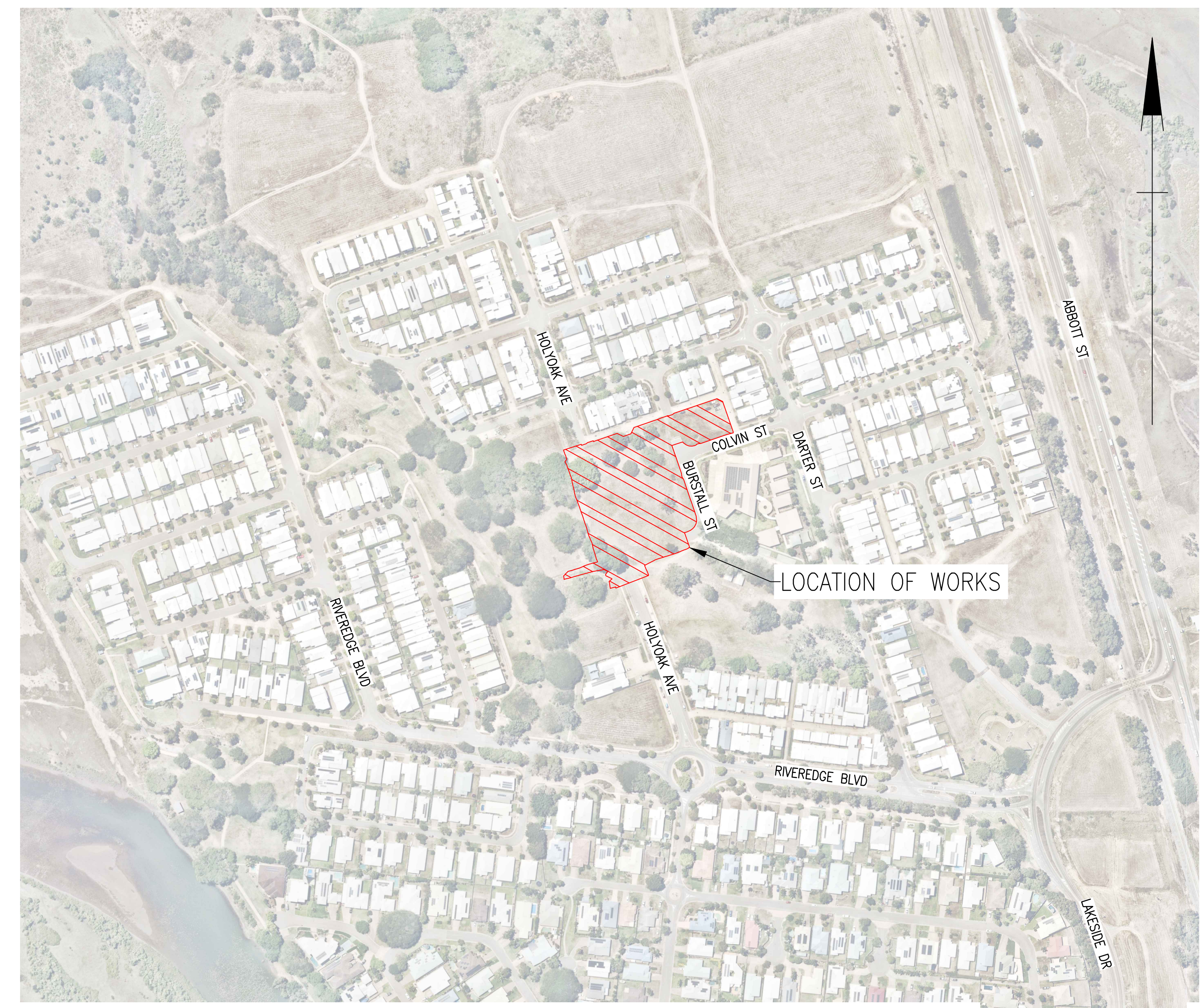
NOTES: 1. All pipes below tail water R.L. 3.08 to be exposure class C2 2. Refer drawing 304702009-STN-02-006-DR-CI-400 for stormwater catchments 3. Refer drawing 304702009-STN-02-006-DR-CI-410 to 414 for stormwater layout and details 4. Refer drawing 304702009-STN-02-006-DR-CI-440 for stormwater calculations



1. Refer drawing 304702009-STN-02-006-DR-CI-400 for stormwater catchments
2. Refer drawing 304702009-STN-02-006-DR-CI-410 to 413 for stormwater layout
3. Refer drawing 304702009-STN-02-006-DR-CI-430 to 432 for stormwater longsection



ECONOMIC DEVELOPMENT QUEENSLAND OONOONBA PDA HOLYOAK AVENUE & BURSTALL STREET



Project Number: 304702009-STN-02-005

A

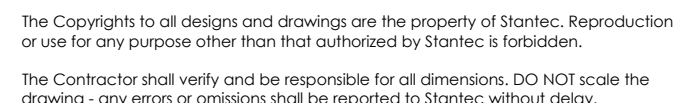
STANDARD DRAWINGS

DRAWING NO.	REV.	DESCRIPTION
TOWNSVILLE CITY COUNCIL		
SD-015	F	VERGE ZONES AND TREES GENERAL TYPE SECTIONS
SD-020	D	CONCRETE KERBING
SD-025	D	KERB RAMP
SD-075	E	CONCRETE PATHWAY REINFORCED CONCRETE (FIBRE) ALTERNATIVE
SD-080	D	SUBSOIL DRAIN
SD-200	C	PRECAST GRATED KERB INLET SYSTEM & CAST INSITU STORMWATER MANHOLE
SD-205	C	STORMWATER MANHOLE DETAILS
SD-210	A	MANHOLE SLAB TOP DETAILS
CTM WATER ALLIANCE DESIGN & CONSTRUCTION CODE (CTM CODE) – SEWER		
SEQ-SEW-1106-4	A	PE NUSEWERS TYPICAL PROPERTY CONNECTION TYPE B1 TO B4 SLOPED CONNECTIONS
SEQ-SEW-1200-2	A	EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT
SEQ-SEW-1201-1	A	TYPICAL STANDARD EMBEDMENT FLEXIBLE & RIGID PIPES
SEQ-SEW-1300-1	A	MAINTENANCE HOLES ≤ DN300 SEWER TYPES P1, P2 & P3 TYPICAL PRE-CAST
SEQ-SEW-1303-1	C	MAINTENANCE HOLES SEWERS ≤ DN300 TYPICAL CHANGES IN LEVEL DETAILS
CTM WATER ALLIANCE DESIGN & CONSTRUCTION CODE (CTM CODE)		
SEQ-WAT-1102-1	B	TYPICAL MAINS CONSTRUCTION RETICULATION MAIN ARRANGEMENTS
SEQ-WAT-1105-2	B	TYPICAL CONNECTION TO EXISTING MAINS
SEQ-WAT-1200-1	A	TYPICAL SOIL CLASSIFICATION GUIDELINES AND ALLOWABLE BEARING PRESSURE FOR ANCHORS & THRUST BLOCKS
SEQ-WAT-1200-2	B	EMBEDMENT & TRENCHFILL TYPICAL ARRANGEMENT
SEQ-WAT-1205-1	A	TYPICAL THRUST BLOCK DETAILS MASS CONCRETE
SEQ-WAT-1206-1	B	TYPICAL THRUST AND ANCHOR BLOCKS FOR VALVES
SEQ-WAT-1207-1	A	TYPICAL THRUST AND ANCHOR BLOCKS FOR VERTICAL BENDS
SEQ-WAT-1211-1	B	TYPICAL BURIED CROSSINGS UNDER OBSTRUCTIONS
SEQ-WAT-1212-1	A	TYPICAL BURIED CROSSINGS MAJOR ROADWAYS
SEQ-WAT-1300-1	B	TYPICAL VALVE AND HYDRANT ROAD AND PAVEMENT MARKERS
SEQ-WAT-1300-2	B	TYPICAL VALVE AND HYDRANT IDENTIFICATION MARKER POSTS
SEQ-WAT-1301-1	B	TYPICAL VALVE AND HYDRANT INSTALLATION VALVE ARRANGEMENT
SEQ-WAT-1302-1	B	TYPICAL HYDRANT INSTALLATION
SEQ-WAT-1303-1	A	TYPICAL VALVE AND HYDRANT INSTALLATION FUTURE EXTENSION INSTALLATION
DEPARTMENT OF TRANSPORT AND MAIN ROADS (DTMR)		
SD1304	O	PIPE CULVERTS – WINGWALLS, HEADWALL AND APRON FOR PIPE DIAMETER 750 TO 2400

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Economic
Development
Queensland

RM	RM	GJ	BM	2026/05/15
Dwn	Dwn	Chkd	Appd	YYYY MM DD

Revision	Drawing No.
P01	304702009-STN-02-005-DR-CI-000002

7. PAVEMENT

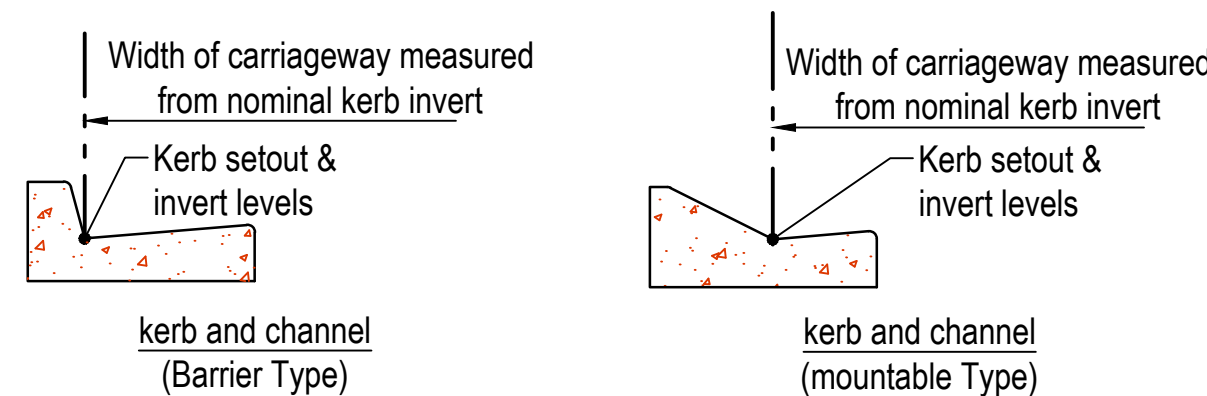
- 5.2.1. FILLING IS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE SPECIFICATIONS AND AS3798, APPENDIX B, LEVEL 1.

- 5.3.1. PRIOR TO THE COMMENCEMENT OF FILLING THE SITE IS TO BE STRIPPED - DEPTH TO BE NOTED & CONFIRMED BY CONTRACTOR. PLACEMENT OF FILL ON PREPARED AREAS SHALL NOT COMMENCE UNTIL AUTHORISED BY THE CONTRACTOR'S QUALIFIED GEOTECHNICAL ENGINEER.
- 5.3.2. EARTHWORKS SPOIL IS TO BE STOCKPILED AS DIRECTED BY THE SUPERINTENDENT;
- 5.3.3. TOPSOIL IS TO BE RE-SPREAD FROM STOCKPILE AT MIN. 100mm AND IN ACCORDANCE WITH AS3798;
- 5.3.4. SILT FENCING IS TO BE PLACED ON THE DOWNSTREAM SIDE OF ALL STOCKPILE SITES AND AN ADEQUATE CUTOFF DRAINS ARE TO BE PLACED ON THE UPSTREAM SIDE OF ALL STOCKPILE SITES;

6.1.1. FOR DETAILS OF CONCRETE FOOTPATHS, REFER TO TOWNSVILLE CITY COUNCIL (TCC) STANDARD DRAWING SD-075.

6.1.2. WARNING AND DIRECTIONAL TACTILE GROUND SURFACE INDICATORS (TGSIS) SHALL CONFORM WITH AS/NZS 1428.4.1 AND TCC STANDARD DRAWING SD-025.

- 6.2.1. ALL KERB RADII SHOWN ARE TO LIP LINE.
- 6.2.2. ALL LEVELS SHOWN REFER TO:-
- INVERT OF KERB AND CHANNEL
- 6.2.3. WHERE DIFFERENT KERB TYPES MEET, TRANSITION TO BE TAKEN OUT OVER 1.0m (MIN).
- 6.2.4. FOR RESIDENTIAL AND COMMERCIAL DRIVEWAY CROSSOVERS, REFER TO TCC STANDARD DRAWINGS SD-030, SD-031 & SD-032.
- 6.2.5. FOR DETAILS OF KERBS AND CHANNELS REFER TO TCC STANDARD DRAWING SD-020.
- 6.2.6. THE CONTRACTOR SHALL ENSURE THAT ALL KERB AND CHANNEL GRADES SHALL NOT FALL BELOW 0.3% AT ANY POINT IRRESPECTIVE OF ROAD CENTRE LINE GRADING SHOWN ON LONGITUDINAL SECTIONS.
- 6.2.7. WHERE NEW KERB AND CHANNEL AND/OR AC MEET EXISTING SURFACES THE CONTRACTOR SHALL VERIFY THE LEVELS WITH THE SUPERINTENDENT.
- 6.2.8. SUBSOIL DRAINAGE SHALL BE CONTINUOUS WITH ADJOINING KERB AND CHANNEL WHERE CONCRETE INVERT IS CONSTRUCTED. REFER TO TCC STANDARD DRAWING SD-080.
- 6.2.9. FOR KERB / KERB AND CHANNEL SETOUT REFER:



- 7.1. ALL PAVEMENT DEPTHS SHALL BE CONFIRMED BY SUBGRADE TESTING PRIOR TO CONSTRUCTION, IN ACCORDANCE WITH THE SPECIFICATION. IN-SITU DCP SAMPLES TO USE DTMR METHOD Q114B.
- 7.2. WHERE STENCIL PRINT/STAMPED AC FINISH IS TO BE CONSTRUCTED, USE AN ADDITIONAL 10mm DENSE GRADED AC ON TOP OF THE SPECIFIED AC SURFACING DEPTH AND SUB-BASE ADJUSTED TO MAINTAIN OVERALL PAVEMENT THICKNESS.
- 7.3. FINAL SURFACING DESIGN TO BE PROVIDED FOR APPROVAL BY THE SUPERINTENDENT. DESIGNS NOMINATED ON THE PROJECT DRAWINGS TO BE ADJUSTED TO SUIT SITE CONDITIONS.
- 7.4. ARCHITECTURAL FINISHES TO VEHICULAR PAVEMENTS SHALL NOT COMPROMISE THE NOMINATED AGGREGATE SIZE, LIMIT THE EFFECTIVENESS OF LINEMARKING OR COMPROMISE SKID RESISTANCE. FULL DEPTH COLOUR TREATMENTS AND BROOM FINISHES ARE GENERALLY ACCEPTABLE. ANY OTHER TREATMENTS MUST BE APPROVED BY THE SUPERINTENDENT PRIOR TO USE.
- 7.5. ACCESS POINTS SHALL BE PROVIDED TO BLIND ENDS OF 100mm DIA. SUBSURFACE DRAINAGE PIPES IN ACCORDANCE WITH TCC STANDARD DRAWING NO SD-080.
- 7.6. THE CONTRACTOR SHALL INITIALLY EXCAVATE THE PAVEMENT BOX TO THE FOLLOWING DEPTHS:
 - IN CUT AREAS - LOCAL AUTHORITY MINIMUM BOX PAVEMENT BOX DEPTH
 - IN FILL AREAS - PROPOSED PAVEMENT DESIGN BOX DEPTH

8.1.	ALL ROAD SIGNS AND LINEMARKING TO BE IN ACCORDANCE WITH MUTCD STANDARD AS4049.1 AND AS1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'.	
8.2.	ALL LINEMARKING TO BE WHITE UNLESS NOTED OTHERWISE;	
8.3.	ALL SIGNS ARE TO BE SIZE "A" UNLESS NOTED OTHERWISE;	
8.4.	TRAFFIC SIGN INSTALLATION TO BE IN ACCORDANCE WITH TCC STANDARD DRAWING SD-060.	
8.5.	SIGNS LOCATED IN MEDIANS TO BE INSTALLED USING LOC SOCKET OR APPROVED EQUIVALENT.	
8.6.	STREET NAME SIGN LOCATIONS TO BE IN ACCORDANCE WITH TCC STANDARD DRAWING SD-065.	
8.7.	DIMENSIONS TO LINEMARKING ARE MEASURED FROM THE NOMINAL KERB AND CHANNEL INVERT AND OR FROM NOMINAL KERB FACE OF ISLANDS AND MEDIANS;	
8.8.	INSTALL OR REINSTATE VALVE AND HYDRANT IDENTIFICATION MARKERS IN ACCORDANCE WITH THE SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE - STANDARD DRAWING SEQ-WAT-1300-1	
8.9.	ENSURE THAT SIGNAGE HAS CLEAR SIGHT DISTANCE, OTHERWISE ADJUST LOCATION ACCORDINGLY.	
8.10.	SUPERSEDED LINEMARKING AND SIGNAGE TO BE REMOVED;	
8.11.	RAISED REFLECTORISED PAVEMENT MARKERS ARE TO BE PROVIDED TO ALL BARRIER AND MEDIAN LINEMARKING IN ACCORDANCE WITH AUS. STD. 1742 'MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES'.	
8.12.	GENERALLY LINES SHALL BE MARKED IN THE FOLLOWING MATERIALS:	
	- CONTINUITY LINES, INTERSECTION DIRECTION ARROWS AND TRANSVERSE MARKINGS ACROSS INTERSECTIONS	THERMOPLASTIC.
	- ALL OTHER TRANSVERSE MARKINGS (EXCEPT CHEVRON MARKINGS)	PAINTED WITH ANTI-SKID TREATMENT
	- ALL OTHER LINEMARKING	PAINTED.

2.1.	UNLESS OTHERWISE SPECIFIED ALL EXISTING SERVICES AND STRUCTURES ARE TO BE MAINTAINED IN GOOD ORDER FOR THE DURATION OF THE CONTRACT AND WHERE RELOCATION IS REQUIRED REFER SPECIFICATION.
2.2.	ALL WORK JOINING TO EXISTING CONSTRUCTION TO BE DONE NEATLY & TO THE SATISFACTION OF THE SUPERINTENDENT;
2.3.	ALL BENCHMARKS TO BE LEVEL CHECKED BY CONTRACTOR PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.4.	THE LOCATION OF EXISTING SERVICES AS SHOWN ON THE PLAN IS INDICATIVE ONLY AND THE CONTRACTOR MUST ASCERTAIN THE POSITION OF ALL SERVICES (I.E. WATER, ELECTRICITY, TELECOM, GAS ETC.), BEFORE COMMENCING CONSTRUCTION.
2.5.	LEVELS AND GRADIENTS AT JUNCTIONS WITH EXISTING WORKS MAY BE VARIED AS REQUIRED TO ACHIEVE SATISFACTORY CONNECTIONS AND THE COSTS DEEMED INCLUDED IN THE RELEVANT SCHEDULE ITEMS;
2.6.	IF THE LOCATION, LINE AND / OR LEVEL OF ANY EXISTING SERVICE IS NOT AS DESCRIBED ON THE DRAWINGS THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY AND PRIOR TO PROCEEDING WITH FURTHER WORK;
2.7.	IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE REPAIR OR REPLACE EXISTING SERVICES DAMAGED DURING THE WORKS TO THE SATISFACTION OF THE SUPERINTENDENT.
2.8.	EXISTING DRIVEWAYS AFFECTED BY WORKS SHALL BE RECONSTRUCTED IN THE SAME MATERIAL AS EXISTING OR AS DIRECTED BY EDQ.
2.9.	CLEARING AND GRUBBING AS DIRECTED, INCLUDING REMOVAL AND DISPOSAL OF CLEARED VEGETATION.

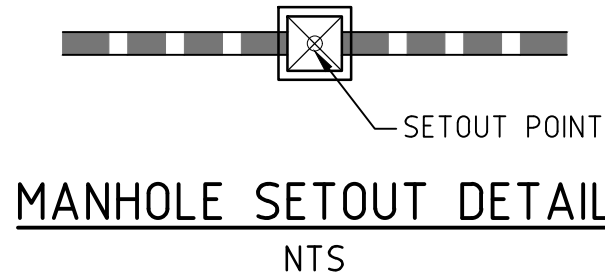
- 9.1. ANY WORKS UNDERTAKEN IN THE VICINITY OF PUBLIC ROADS MUST BE APPROPRIATELY SIGNED, LIT AND BARRICADED TO ENSURE THE SAFETY OF THE PEDESTRIAN AND VEHICULAR TRAFFIC IN THEIR VICINITY.
- 9.2. WORKS WILL BE SO ORDERED TO ENSURE THAT PUBLIC ACCESS ALONG THE ROADS IS MAINTAINED AT ALL TIMES TO THE SATISFACTION OF EDQ.
- 9.3. WHERE REQUIRED, BEFORE COMMENCEMENT OF THE WORKS THE CONTRACTOR SHALL OBTAIN THE REGULATORY AUTHORITIES APPROVAL AND OPERATING REQUIREMENT FOR THE TRUCK ROUTES TO BE USED BY ALL VEHICLES ASSOCIATED WITH THE CIVIL WORKS. APPROPRIATE CLEANSING DEVICES SHALL BE INSTALLED ON SITE TO ENSURE THERE IS NO ADVERSE IMPACT FROM VEHICLES ALONG THESE ROUTES.

9.4. STORMWATER

- 9.4.1. STORMWATER STRUCTURES AND CONNECTIONS ARE TO BE LOCATED ON THE LONG SECTION. ADJUSTMENTS TO THE DESIGN LAYOUT WHERE REQUIRED TO SUIT ACTUAL AS-CONSTRUCTED GEOMETRY SHALL REQUIRE THE APPROVAL OF THE SUPERINTENDENT.

9.5. STRUCTURES

- 9.5.1. ALL DRAINAGE STRUCTURES ARE TO HAVE HALF HEIGHT BENCHING AS PER QUDM SECTION S.21.8.
- 9.5.2. ALL GULLIES ARE TO BE LIP IN LINE GRATED GULLY UNLESS SHOWN OTHERWISE. REFER TOWNSVILLE CITY COUNCIL STANDARD DRAWINGS FOR DETAILS.
- 9.5.3. ALL DRAINAGE STRUCTURES WITHIN ROAD RESERVE AND FRONT OF LOTS TO HAVE CLASS D (TRAFFICABLE) COVERS / GRATES & FRAMES UNLESS NOTED OTHERWISE.
- 9.5.4. FINAL PIT LOCATION AND ORIENTATION TO BE CONFIRMED ON SITE BY THE SUPERINTENDENT;
- 9.5.5. FOR STORMWATER PIT SETOUT LOCATIONS REFER BELOW.



9.6. PIPES

- 9.6.1. ALL REINFORCED CONCRETE PIPES TO COMPLY WITH A.S. 4139-2003.
- 9.6.2. ALL REINFORCED CONCRETE BOX CULVERTS AND LINK SLABS TO COMPLY WITH A.S. 1597.1-2010 AND A.S. 1597.2.2
- 9.6.3. ALL REINFORCED CONCRETE PIPES ARE TO BE RCP CLASS 4 UNLESS NOTED OTHERWISE.
- 9.6.4. PIPES SHALL BE BEDDED IN ACCORDANCE WITH AS3725-H2/HS2.
- 9.6.5. ALL REINFORCED CONCRETE PIPES TO BE FLUSH JOINTED (FJ)
- 9.6.6. uPVC PIPES SHALL BE CLASS S_{N6} UNLESS NOTED OTHERWISE.
- 9.6.7. RCP AND FRC PIPES SHALL BE CLASS 4 UNLESS NOTED OTHERWISE.
- 9.6.8. WHERE ROOF WATER DRAINS AND SEWER MAINS ARE TO BE CONSTRUCTED PARALLEL TO EACH OTHER, THE ROOF WATER DRAINAGE CONNECTION SHALL EXTEND 1.00 BEYOND THE SEWER MAIN.
- 9.6.9. MINIMUM COVER TO ROOF WATER PIPES TO BE 450mm EXCEPT WHERE LESS COVER IS NECESSARY TO DISCHARGE TO STREET KERB AND CHANNEL.
- 9.6.10. ROOF WATER DRAINAGE SYSTEMS SHALL DISCHARGE INTO A GULLY OR STORMWATER MANHOLE WHEREVER POSSIBLE.
- 9.6.11. ROOF WATER CONNECTION POINTS SHALL BE IDENTIFIED BY A 100 x 100 WHITE HW POST MARKED AS "ROOF WATER DRAINAGE".

9.7. TRENCHES

- 9.7.1. TRENCH EXCAVATIONS FOR DRAINAGE SHALL COMPLY WITH WORKPLACE HEALTH AND SAFETY REQUIREMENTS.
- 9.7.2. ALL TRENCHES SHALL BE BACKFILLED IN LAYERS OF LOOSE AGGREGATES OR GRANULAR MATERIAL THICKNESS APPROPRIATE TO THE TYPE OF COMPACTION EQUIPMENT BEING USED AND NOT GREATER THAN 250mm.

9.8. SCOUR PROTECTION

- 9.8.1. GEOTEXTILE TO BE CONSTRUCTED OUT OF WATER PERMEABLE MATERIAL USUALLY SYNTHETIC MATERIAL SUCH AS POLYPROPYLENE. TO BE USED AS PART OF EROSION AND SEDIMENT CONTROL METHOD IN CONSTRUCTION AND STORMWATER MANAGEMENT SITUATIONS TO TRAP OR PREVENT CLOGGING OF AGGREGATES BY SOIL/CLAY/SILT PARTICLES;
- 9.8.2. GEOTEXTILE MUST BE OF SUFFICIENT STRENGTH/DURABILITY TO WITHSTAND BREAKAGE FROM WATER FLOW, SEDIMENT BUILDUP, AND EXPOSURE TO SUNLIGHT;
- 9.8.3. CONSULT WITH MANUFACTURER OF GEOTEXTILE TO VERIFY THAT IT CAN PERFORM THE FUNCTION THAT IS REQUIRED OF IT;
- 9.8.4. IF SLOPE OF CHANNEL / TABLE DRAIN IS BETWEEN 1:1 AND 1:10 , EXCAVATE OUT TO A DEPTH OF 300mm WHERE THE ROCK CHECK DAMS ARE GOING TO BE EMBEDDED;
- 9.8.5. LAY DOWN GEOTEXTILE OVER THE WHOLE AREA THE ROCK CHECK DAMS IS TO BE CONSTRUCTED UPON;

10. OPEN DRAINS

- 10.1. SWALE DRAINS ARE TO BE GRADED EVENLY BETWEEN PROVIDED INVERT LEVELS.
- 10.2. UNLESS NOTED OTHERWISE, DRAINS TO BE TURFED.

12. COMPACTION

- 12.1. THE CONTRACTOR IS RESPONSIBLE FOR COMPACTION TECHNIQUES OVER ALL STORMWATER PIPES TO BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS;

13. CONCRETE NOTES:

- 13.1. NON-VEHICULAR PATHS ONLY MAY USE DANLEY 'EXPANDA' JOINT SYSTEMS OR EQUIVALENT.
- 13.2. GRANULAR SUB-BASE UNDER CONCRETE TO BE CRUSHED ROCK, ROAD BASE OR APPROVED ALTERNATIVE (CBR15 MIN.) FOR VEHICLE PAVEMENTS. 'CRUSHER DUST' TO BE USED UNDER PATHS AND NON TRAFFICABLE CONCRETE.
- 13.3. GRANULAR SUB-BASE SHALL BE COMPACTED AS SPECIFIED, TO A UNIFORMLY SMOOTH, FLAT SURFACE TO THE SATISFACTION OF THE SUPERINTENDENT PRIOR TO CONCRETE PLACEMENT.
- 13.4. ARCHITECTURAL FINISHES TO VEHICULAR PAVEMENT SHALL NOT COMPROMISE THE NOMINATED AGGREGATE SIZE, LIMIT THE EFFECTIVENESS OF LINEMARKING OR COMPROMISE SKID RESISTANCE. FULL DEPTH COLOUR TREATMENTS AND BROOM FINISHES ARE GENERALLY ACCEPTABLE. ANY OTHER TREATMENTS MUST BE APPROVED PRIOR TO USE, APPROVED BY THE SUPERINTENDENT.
- 13.5. ALL SERVICE COVERS WITHIN SHARED / BICYCLE PAVEMENTS TO BE INFILL TYPE, WHERE POSSIBLE, TO MINIMISE SLIP HAZARD
- 13.6. FIXED INTERNAL PENETRATIONS AND EDGES ABUTTING STRUCTURES TO BE ISOLATED WITH A 10mm FLEXIBLE (ABLEFLEX) JOINT. VALVE COVERS AND OTHER 'FLOATING' SERVICES MAY BE CAST DIRECTLY INTO THE SLAB.
- 13.7. ALL INTERNAL CORNERS AND PENETRATIONS REQUIRE 2X PARALLEL N12 TRIMMERS (900mm LONG) ACROSS EACH CORNER TO CONTROL CRACKING, UNLESS ALIGNED WITH AN APPROPRIATE FORMED OR INDUCED JOINT.
- 13.8. CONCRETE SHALL BE PLACED AND COMPACTED IN ACCORDANCE WITH AS3600.
- 13.9. SURFACE SHALL BE TREATED WITH A MOISTURE EVAPORATION RETARDANT (ALIPHATIC ALCOHOL) AFTER SCREEDING AND PRIOR TO FLOATING.
- 13.10. AN ADDITIONAL CURING COMPOUND MUST BE APPLIED OVER FINISHED WORKS. THE PRODUCT MUST BE APPROPRIATE FOR THE NOMINATED ARCHITECTURAL FINISH AND APPLIED IN ACCORDANCE WITH MANUFACTURES RECOMMENDATIONS
- 13.11. LMC SUB-BASE TO BE CURED BY THE APPLICATION OF A WAX EMULSION HYDROCARBON RESIN.
- 13.12. CONCRETE CUTTING SHALL BE UNDERTAKEN WITHIN 8 HOURS OF PLACEMENT. A SOFF-CUT SAW IS RECOMMENDED TO ENSURE CORRECT DEPTH OF CUTS, MINIMISE SPALLING AT ARRISES AND PERMIT CUTTING WITHIN THE APPROPRIATE TIME.
- 13.13. FINISHED SURFACE SHALL NOT BE TRAFFICKED EARLIER THAN 10 DAYS AFTER PLACEMENT.



ENERGY SERVICE PROVIDERS



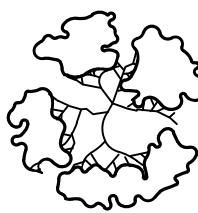
NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

TELECOMMUNICATIONS SERVICE PROVIDERS



NOTE: SERVICE LOCATIONS ARE APPROXIMATE ONLY FROM PROVIDERS PLANS. LOCATIONS ARE TO BE CONFIRMED PRIOR TO START OF CONSTRUCTION. PHONE DBYD SERVICE LOCATIONS ON **1100** FOR DETAILS.

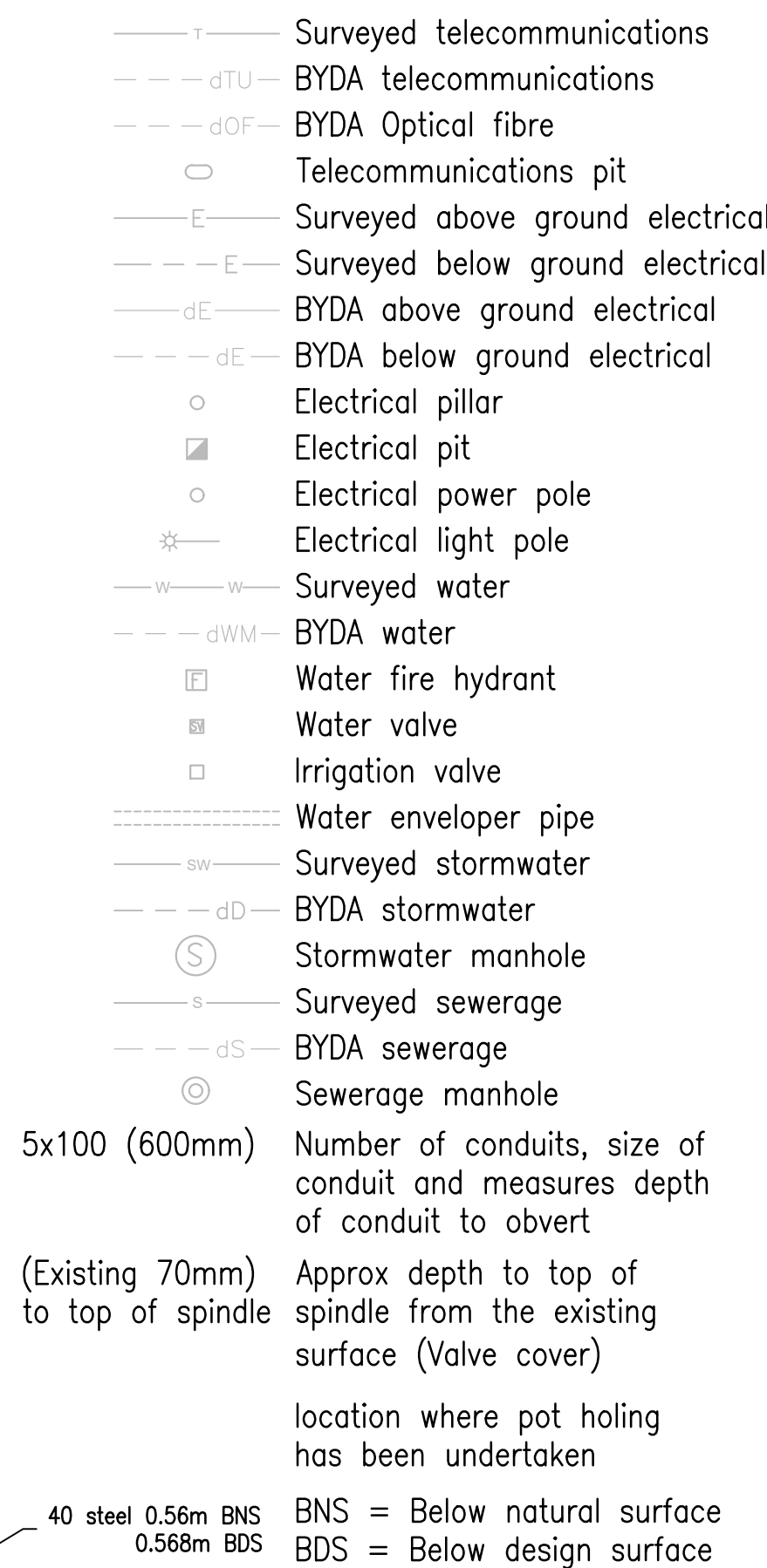
PLEASE CONTACT THE SCRC'S ARBORIST PRIOR TO ANY CONSTRUCTION FOR ADVICE ON TREE ROOT PROTECTION IN THE VICINITY OF THE WORKS TO BE CARRIED OUT.



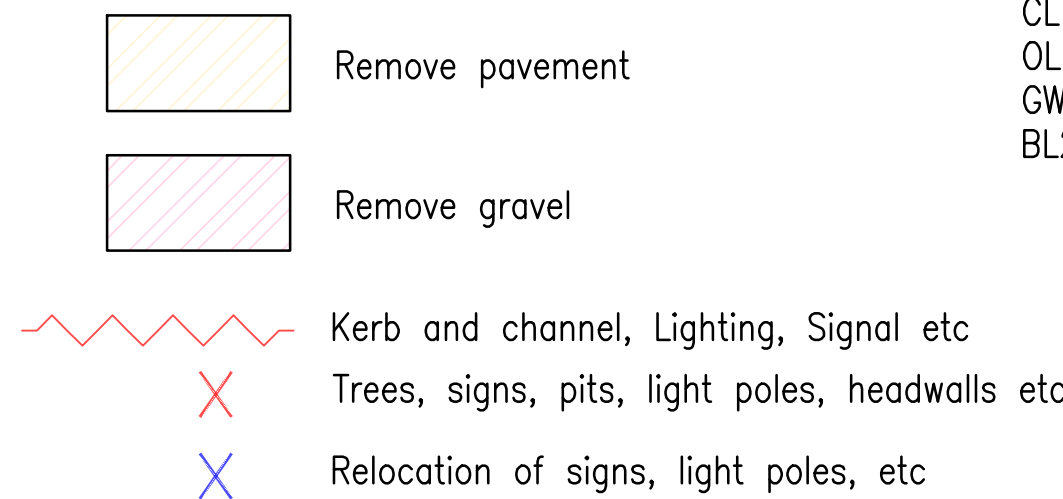
SERVICE LOCATIONS

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF SERVICES PRIOR TO CONSTRUCTION. ALSO TO OBTAIN THE REQUIRED APPROVALS AND PERMITS.

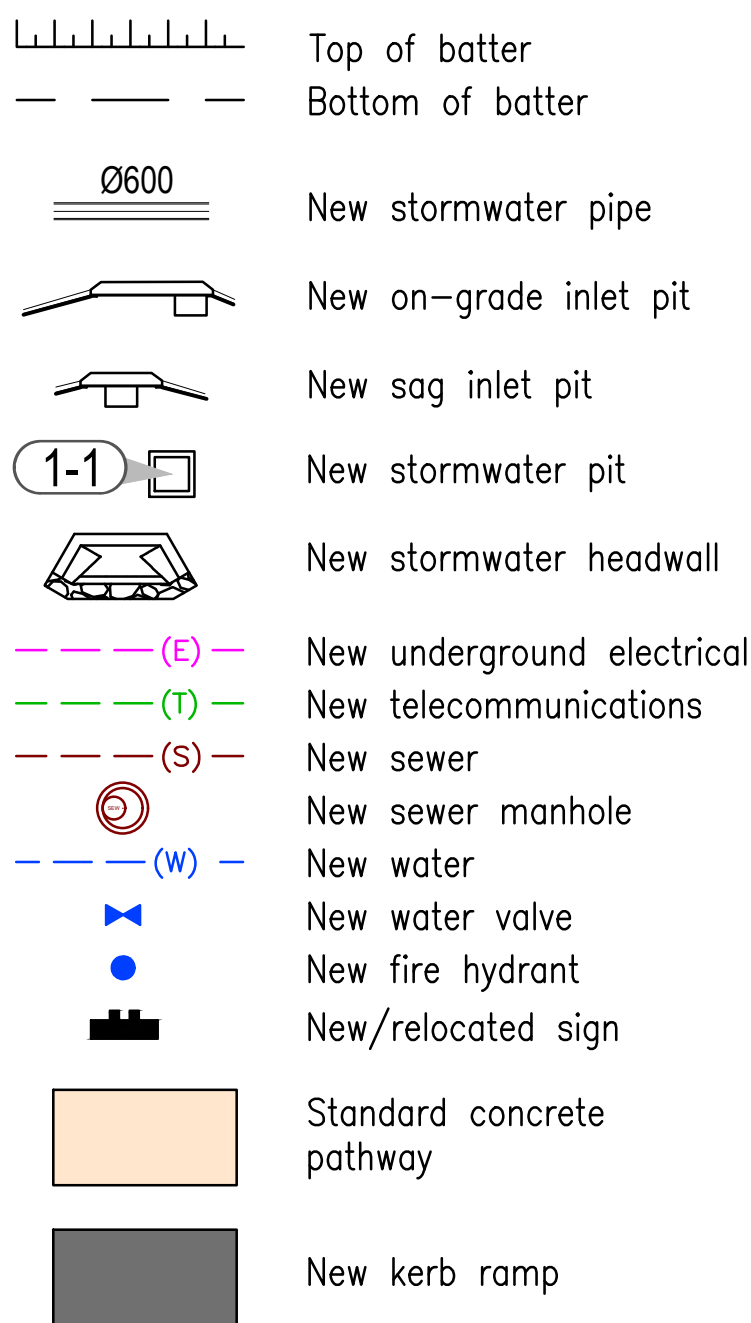
SERVICES LEGEND



DEMOLITION LEGEND



DESIGN LEGEND



PAVEMENT MARKING LEGEND

- LL1 = Single Broken Lane Line
EL1 = Edge Line
CL1 = Continuity Line
OL1 = Outline Marking
GW = Giveway Line
BL2 = Double Two-Way Barrier Line

ABBREVIATIONS TABLE

DESCRIPTION	ABBREVIATION
ECONOMIC DEVELOPMENT QUEENSLAND	EDQ
PROPOSED	PR
EXISTING	EX
ELECTRICITY	ELEC
STORMWATER	SWD
WATER	WAT
SEWER	SEW
TELSTRA	TEL
NON DRINKING WATER	NDW
COMMUNICATION	COMMS
STANDARD	STD.
DRAWING	DWG.
INSTITUTE OF PUBLIC WORKS ENGINEERING AUSTRALASIA QUEENSLAND	I.P.W.E.A.Q
PROPERTY	RP
BOUNDARY	BDY
DEPARTMENT OF TRANSPORT AND MAIN ROADS	D.T.M.R.
URBAN UTILITIES	U.U.
EXISTING SURFACE LEVEL	E.S.L
FINISHED SURFACE LEVEL	F.S.L
REDUCED LEVEL	R.L
FINISHED LEVEL	F.L
GARAGE FLOOR LEVEL	G.L
FINISHED PAVEMENT LEVEL	P.L
LIP LEVEL OF KERB	L.L
BOTTOM OF WALL	B.O.W
TOP OF WALL	T.O.W

WARNING

SERVICES ARE NOT SHOWN

ALL CONTRACTORS ARE RESPONSIBLE FOR AVOIDING CONFLICTS WITH SERVICES AND MUST CARRY OUT CHECKS WITH ALL SERVICE AUTHORITIES BEFORE COMMENCING WORKS.

BATTER NOTE:

- ALL BATTER SLOPES AND STABILITY TO BE CONFIRMED BY GEOTECHNICAL CONSULTANTS DURING CONSTRUCTION.
- BATTERS STEEPER THAN 1 IN 4 (25%) ARE TO BE HYDROMULCHED;
- BATTERS LESS THAN 1 IN 4 (25%) TO BE MULCHED AND LANDSCAPED;
- TABLE DRAINS STEEPER THAN 1 IN 4 (25%) ARE TO BE ROCK LINED;
- TABLE DRAINS LESS THAN 1 IN 4 (25%) TO BE TURF LINED OR AS SPECIFIED BY SUPERINTENDENT.

WARNING

BEWARE OF UNDERGROUND SERVICES
THE LOCATION OF UNDERGROUND SERVICES HAVE BEEN INTERPOLATED FROM GIS DATA OR KNOWN POSITIONS OF VALVES, MANHOLES ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED. ENSURE ALL SERVICES ARE ACCURATELY LOCATED PRIOR TO COMMENCEMENT OF WORK

Issue Status

S4
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Client/Project Logo



Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
HOLYOAK AVENUE & BURSTALL STREET

Title

DETAILS, LEGEND AND NOTES
SHEET 2 OF 2

Project No.

Auth. Ref.

Scale at A1

Revision

Drawing No.

P01

304702009-STN-02-005-DR-CI-000011

RM BM GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

This report identifies potential hazards, assigns a risk rating, and records the design measures implemented to minimise risk for this specific project. Based on the control methods being implemented, a residual risk rating is consequently developed. The intent of the design control measures with respect to risk is to Eliminate, Reduce, Inform and Control. Any safety issues unresolved through design are also identified for their appropriate management.

This design report assumes that during the construction, maintenance and demolition of the development, the Principal will engage experienced and competent personnel as part of the respective tender evaluation process. Regardless of the following identified hazards, risks and control measures in the design safety analysis, it is the Head Contractor's obligation to prepare and implement site specific safe work method statements for construction activities.

The risks identified in this risk assessment are project and site specific risks. These risks are not generic or common risks associated with bridge or general construction works, rather they are risks which would not be easily recognized by a reasonably competent contractor. Other generic risks that are typical to particular construction activities are to be identified and managed by the client and/or construction contractors. In accordance with the Work Health and Safety Act 2011, the Client must provide a copy of this Safety in Design Report to the Principal Contractor.

Document No: HSEPN3-17
Issue Date: October, 2015

Issue 1
Rev B

Design Safety Review - Constructability
Page 1 of 2

Issue Status

S4

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Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND
OONOONBA PDA
HOLYOAK AVENUE & BURSTALL STREET

RM	BM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

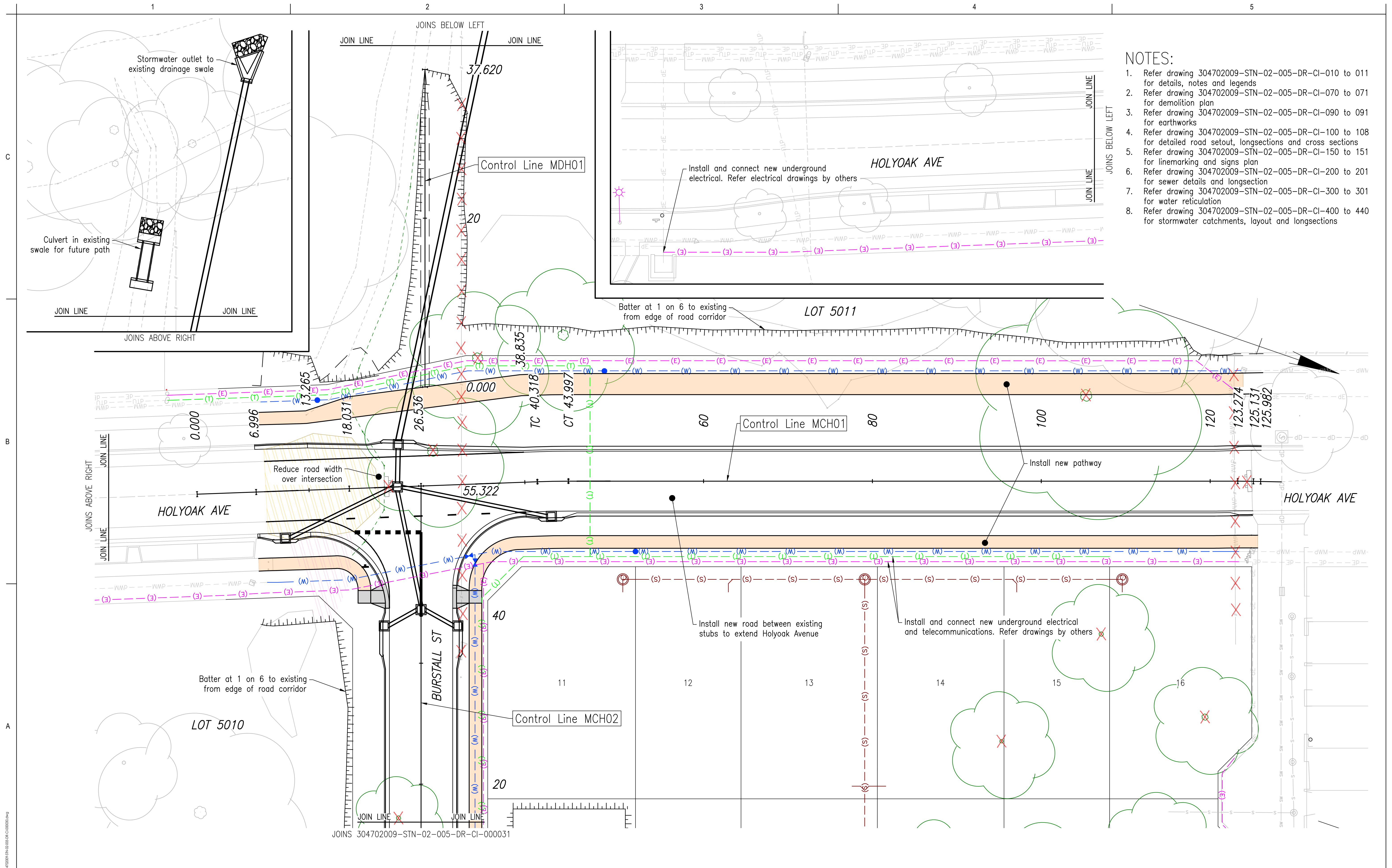
SAFETY IN DESIGN
SHEET 1 OF 2

Project No.	Auth. Ref.
304702009	BM 2443

Scale at A1
AS SHOWN

Revision	Drawing No.
P01	30470200

304702009-STN-02-005-DR-CI-000012



- NOTES:
1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
 3. Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks
 4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
 5. Refer drawing 304702009-STN-02-005-DR-CI-150 to 151 for linemarking and signs plan
 6. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
 7. Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
 8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

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Client/Project Logo

Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONOONBA PDA

HOLYOAK AVENUE & BURSTALL STREET

Title

GENERAL ARRANGEMENT

SHEET 1 OF 2

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

Revision

P01

Drawing No.

304702009-STN-02-005-DR-CI-000030

RM

RM

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BM

2026/05/15

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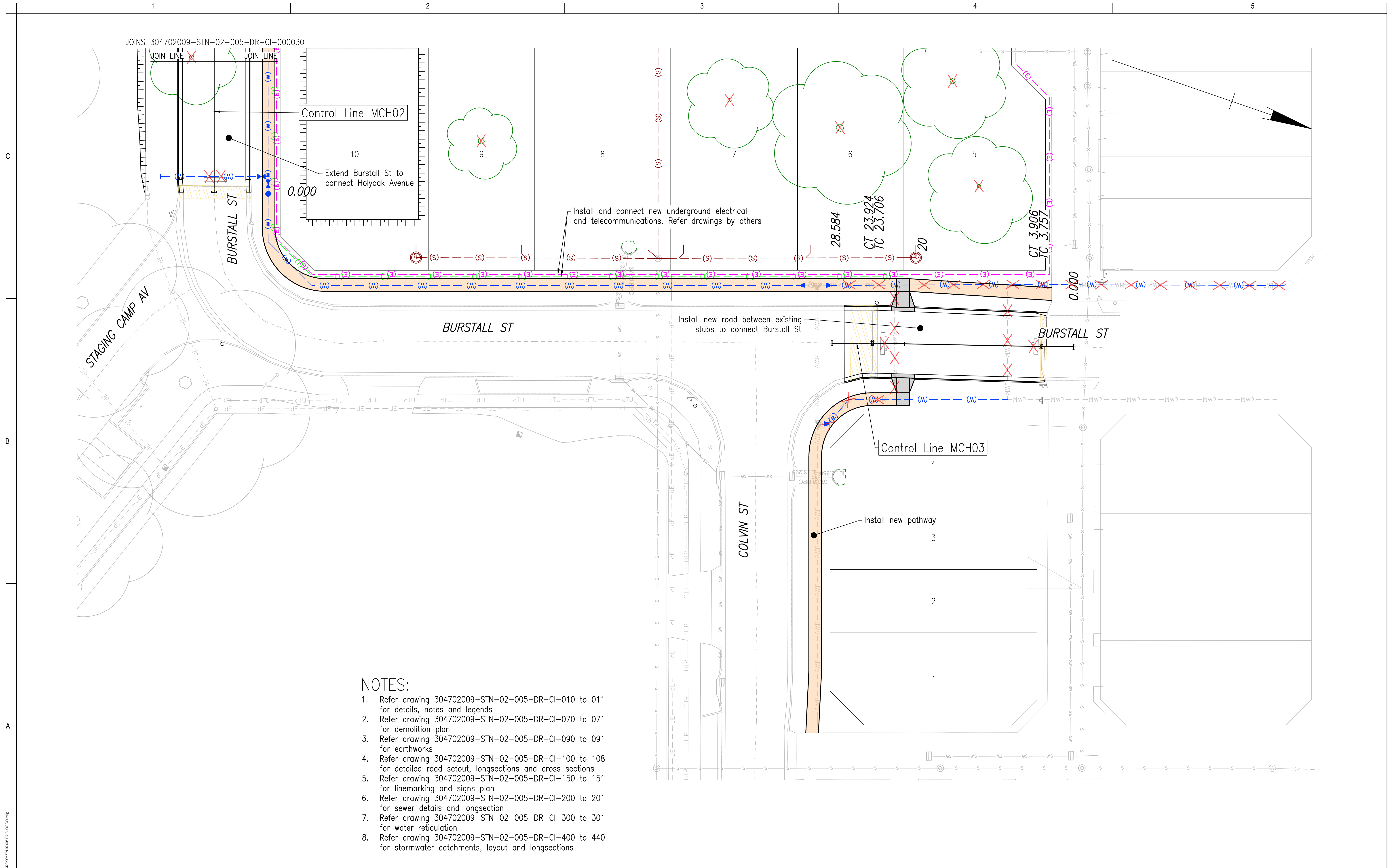
Dsgn.

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U:\304702009\Technical Drawings\Working\Separable\Joiner\304702009-STN-02-005-DR-CI-000030.dwg
Plotted: McGeehan, Ron Date: 15/05/2024 7:50:22 AM

ORIGINAL SHEET - S0 A1



- NOTES:
1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
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0 2 4 6 8m

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ECONOMIC DEVELOPMENT QUEENSLAND

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HOLYOAK AVENUE & BURSTALL STREET

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

GENERAL ARRANGEMENT

SHEET 2 OF 2

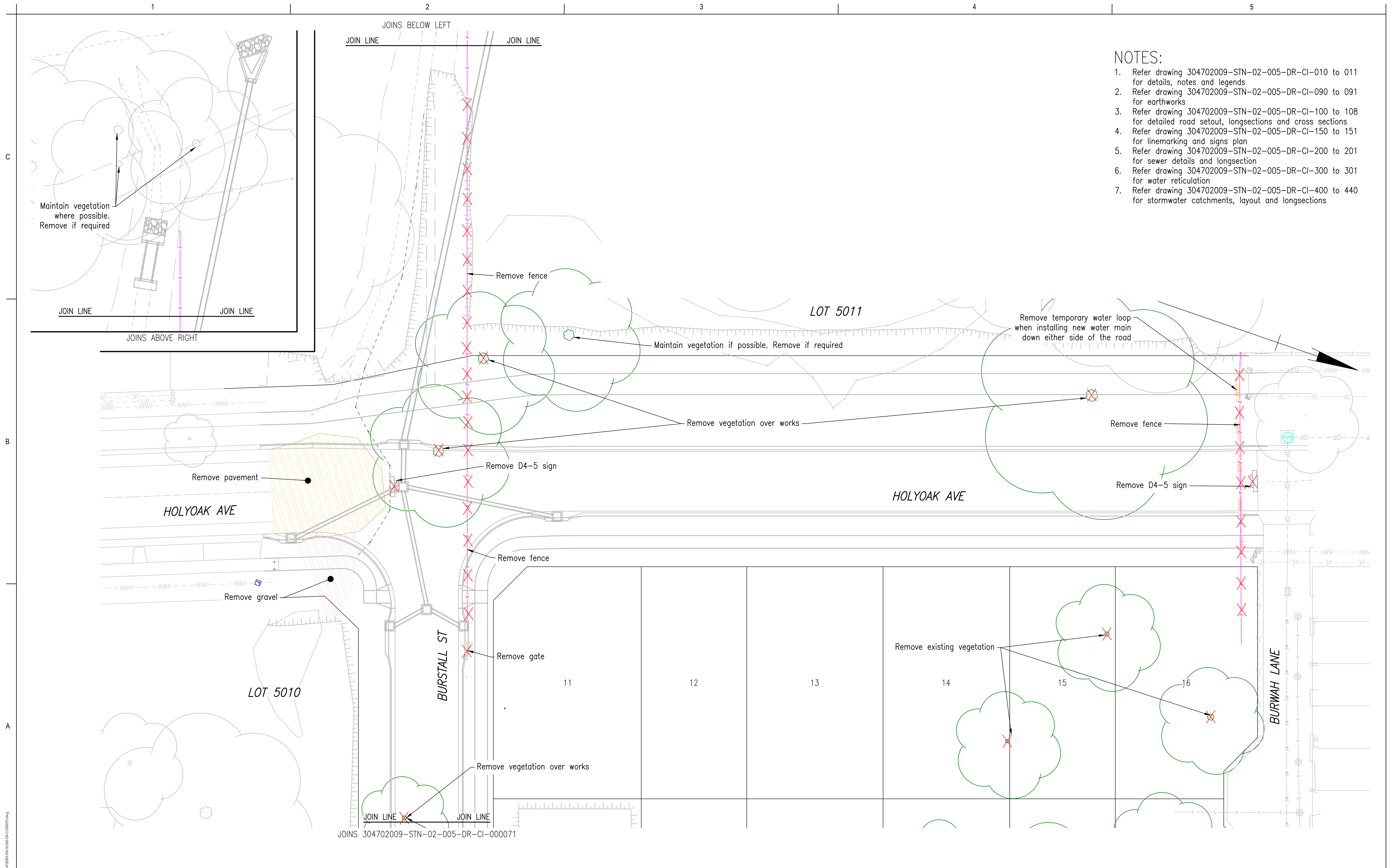
Project No. 304702009

Auth. Ref. BM 24432

Scale at A1 AS SHOWN

Revision **P01**

Drawing No. **304702009-STN-02-005-DR-CI-000031**



- NOTES:
1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
 2. Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks
 3. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
 4. Refer drawing 304702009-STN-02-005-DR-CI-150 to 151 for linemarking and signs plan
 5. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
 6. Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
 7. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

0 2 4 6 8m

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HOLYOAK AVENUE & BURSTALL STREET

Revision

P01

Drawing No.

304702009-STN-02-005-DR-CI-000070

Title

DEMOLITION SHEET 1 OF 2

Project No.

304702009

Auth. Ref.

BM 24432

Scale at A1

AS SHOWN

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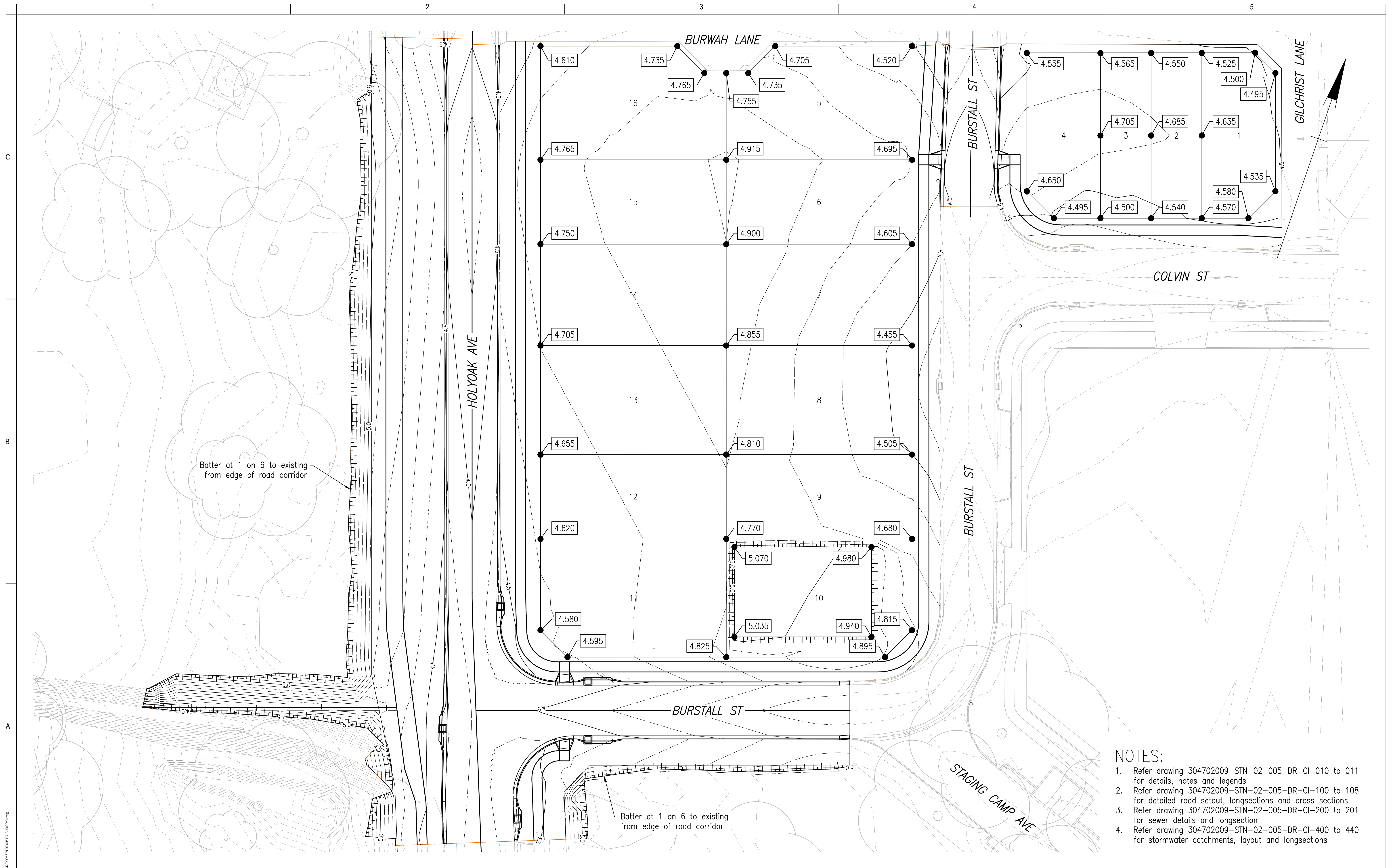
Dwn.

Dsgn.

Chkd.

Appd.

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Plotted: McGeehan, Ron Date: 15/03/2024 7:59:46 AM



- NOTES:
- 1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
 - 2. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
 - 3. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
 - 4. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

02 04 06 08 10m

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Plotter: McGraw Hill, Date: 15/03/2024 7:31:09 AM

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By	Appd	YYYY.MM.DD

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RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title
EARTHWORKS LAYOUT PLAN

Project No.
304702009

Auth. Ref.
BM 24432

Scale at A1
AS SHOWN

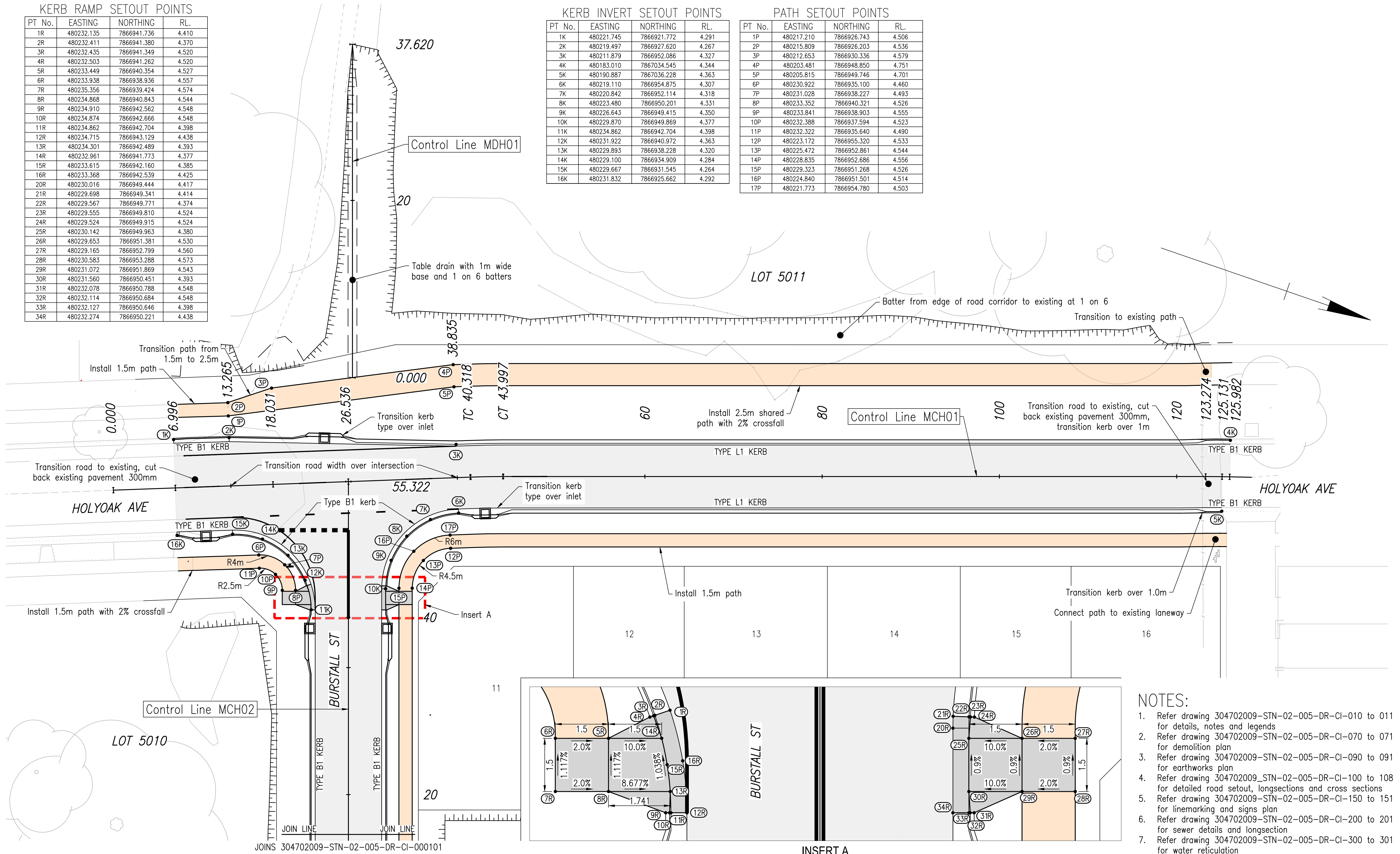
Revision
P01

Drawing No.
304702009-STN-02-005-DR-CI-000090

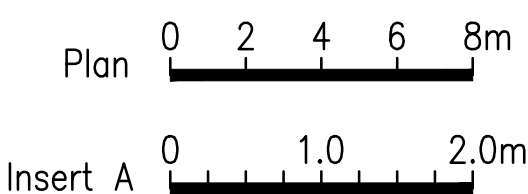
ORIGINAL SHEET - ISO A

PATH SETOUT POINTS

PT No.	EASTING	NORTHING	RL
1P	480217.210	7868926.743	4.506
2P	480215.809	7868926.203	4.536
3P	480212.653	7868930.336	4.579
4P	480203.481	7868948.850	4.751
5P	480205.815	7868949.746	4.701
6P	480230.922	7868935.100	4.460
7P	480231.028	7868938.227	4.493
8P	480233.352	7868940.321	4.526
9P	480233.841	7868938.903	4.555
10P	480232.388	7868937.594	4.523
11P	480232.322	7868935.640	4.490
12P	480223.172	7868955.320	4.533
13P	480225.472	7868952.861	4.544
14P	480228.835	7868952.686	4.556
15P	480229.323	7868951.268	4.526
16P	480224.840	7868951.501	4.514
17P	480221.773	7868954.780	4.503



1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
3. Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks plan
4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-005-DR-CI-150 to 151 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
7. Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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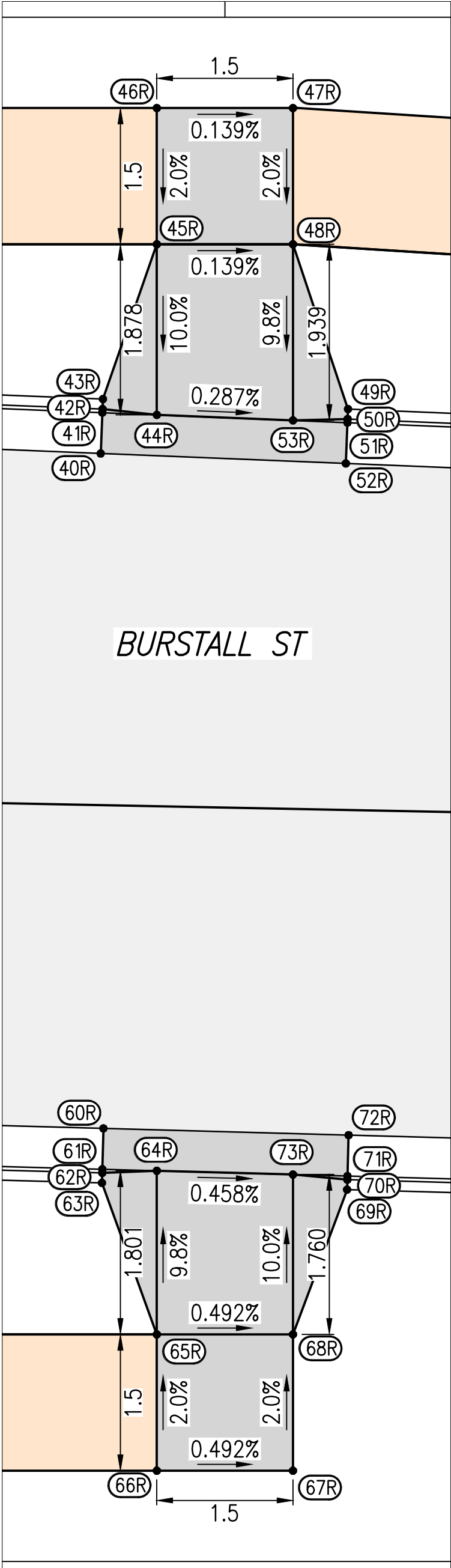
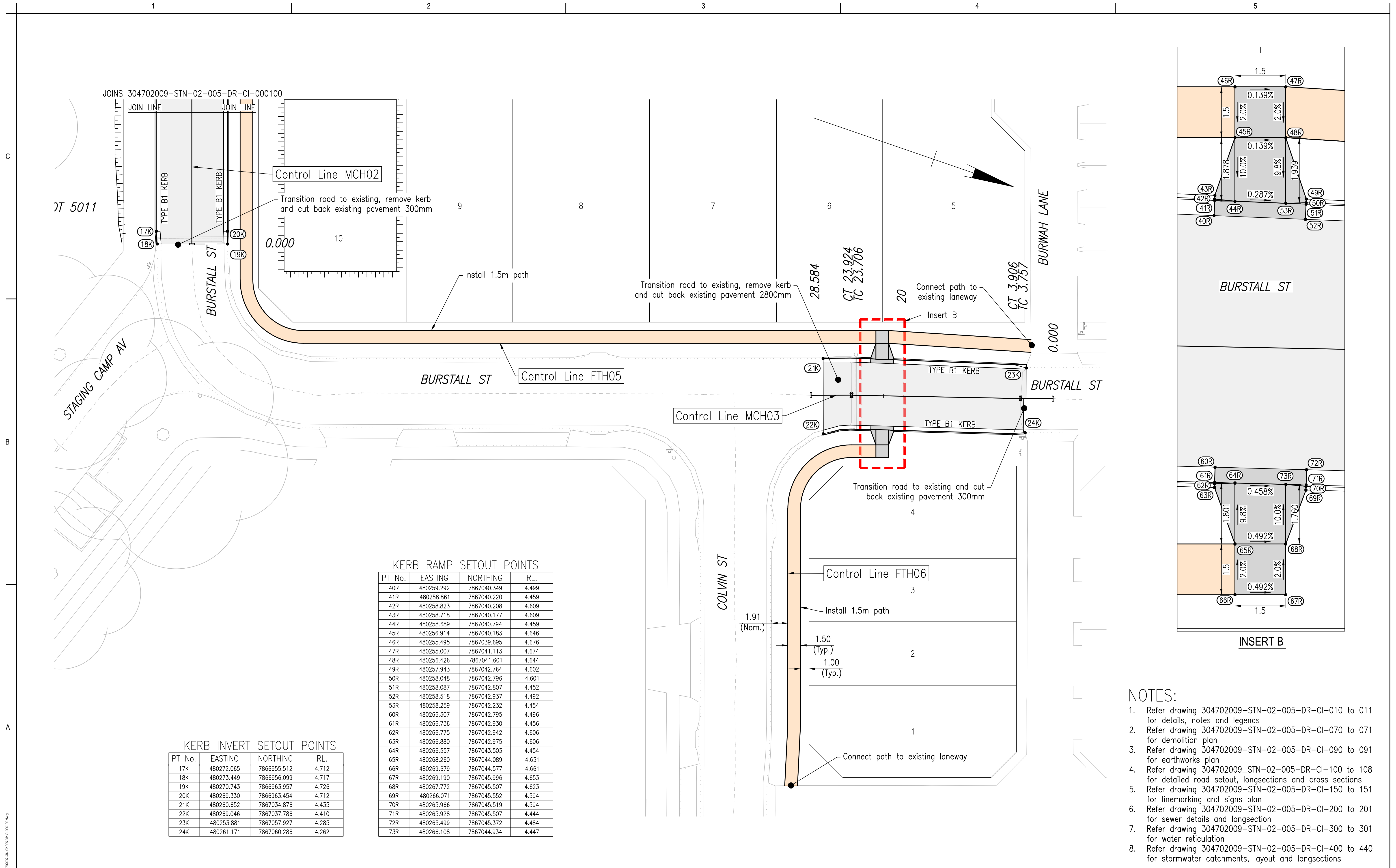


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DETAILED ROAD SETOUT PLAN
SHEET 1 OF 2

Project No. 304702009	Auth. Ref. BM 24432	Scale at A1 AS SHOWN
Revision P01	Drawing No. 304702009-STN-02-005-DR-CI-000100	



- NOTES:
- Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
 - Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks plan
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 - Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
 - Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

Plan 0 2 4 6 8m

Insert A 0 1.0 2.0m

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Scale at A1

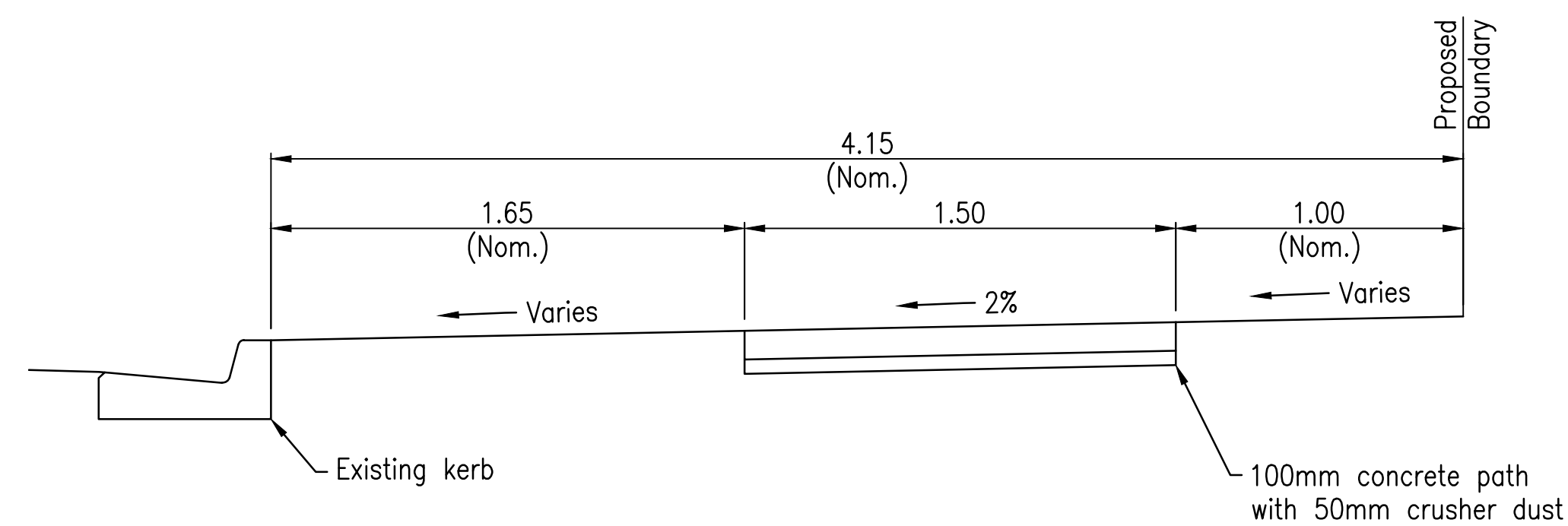
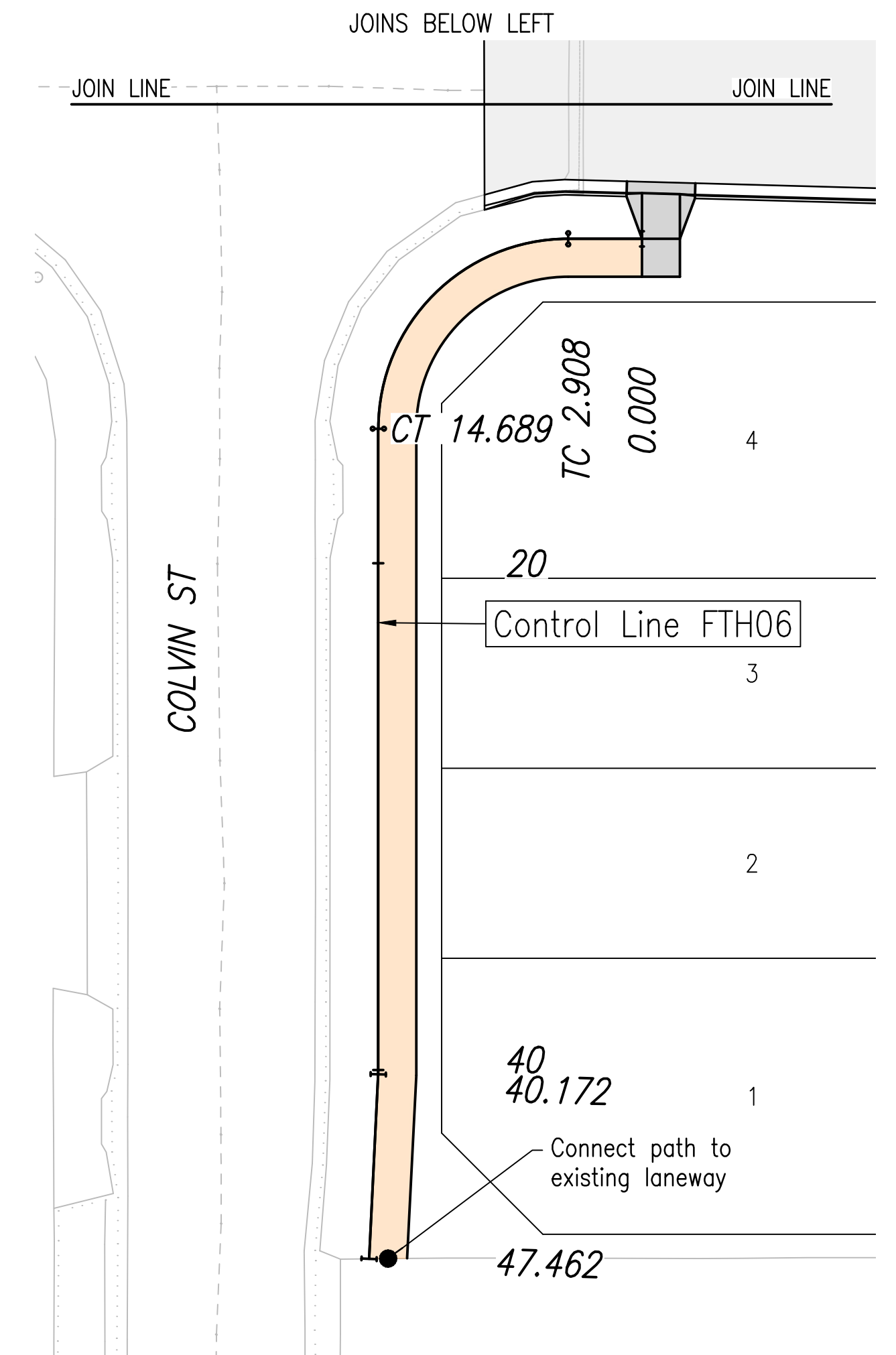
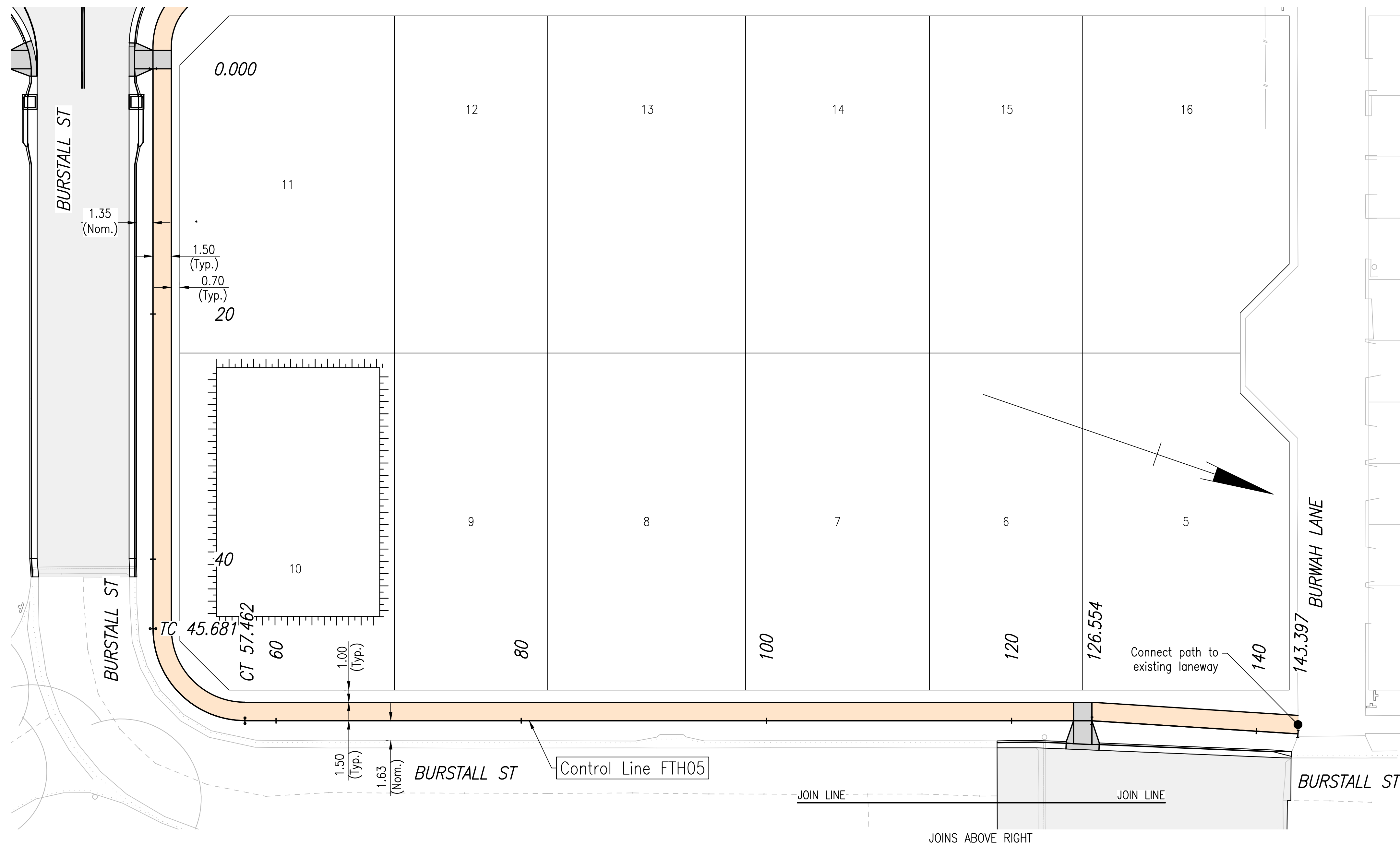
AS SHOWN

Revision

P01

Drawing No.

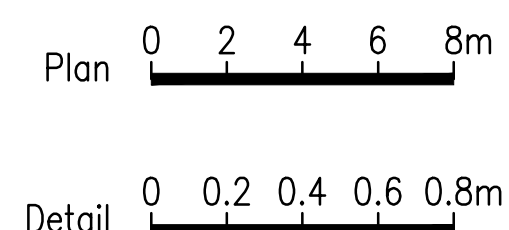
304702009-STN-02-005-DR-CI-000101



NEW FOOTPATH ON EXISTING VERGE TYPICAL SECTION

- NOTES:

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
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8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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Client/Project	Start Date	End Date	Project Manager	Project Status	Project Description
Client/Project	Start Date	End Date	Project Manager	Project Status	Project Description

ECONOMIC DEVELOPMENT QUEENSLAND
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Title

PATHWAY DETAILS

Project No.
304702009

	Auth. Ref.
09	BM 24432

Scale at A1
AS SHOWN

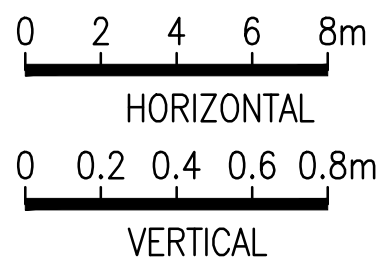
Revision	Drawing No.
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304702009-STN-02-005-DR-CI-000102

RM	RM	GJ	BM	2026/05/15
Dwn	Dsn	Chkd	Appd	YYYY MM DD

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
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8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	480229.355	7866917.204	4.494	338°54'37.89"			
IP 2	7.996	480226.478	7866924.664	4.470				
IP 3	18.031	480222.869	7866934.028	4.440				
IP 4	26.536	480219.806	7866941.963	4.421				
TC	40.318	480214.844	7866954.820	4.458	338°53'41.82"			
IS	42.158	480214.181	7866956.537	4.463		R = 100.000	3.679	2°06'29.50"
CT	43.997	480213.582	7866958.276	4.469	341°00'11.32"			
IP 6	123.274	480187.776	7867033.235	4.515				
IP 7	124.981	480187.237	7867034.855	4.498				
IP 8	128.447	480186.175	7867038.154	4.463	342°09'20.94"			



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RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

ROAD LONGITUDINAL SECTIONS
SHEET 1 OF 3

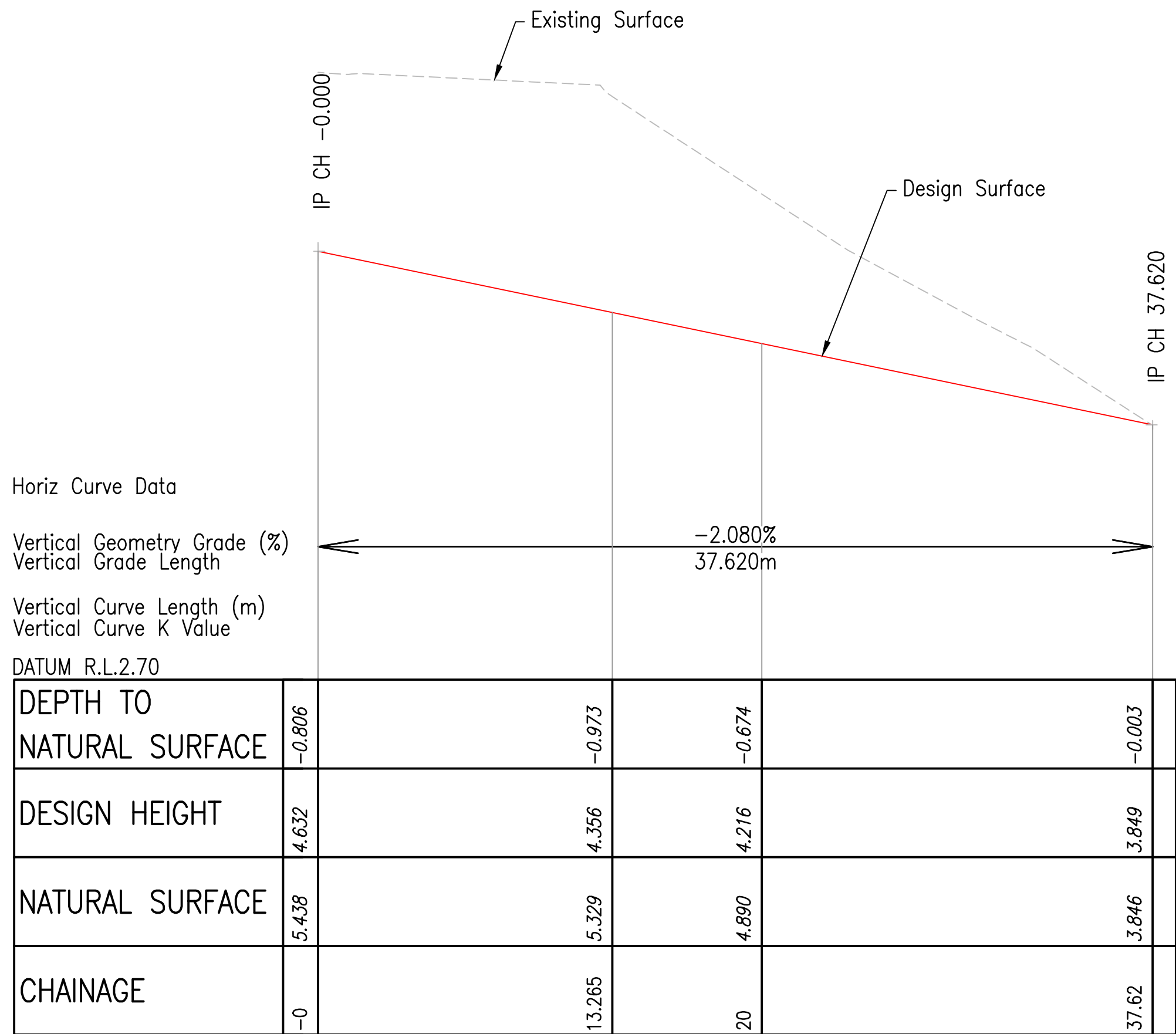
Project No.	Auth. Ref.	Scale at A1
304702009	BM 24432	AS SHOWN

Revision	Drawing No.
P01	304702009-STN-02-005-DR-CI-000103

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
3. Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks plan
4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
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6. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
7. Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections

Control Line MDH01 Setout

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING
IP 1	0.000	480208.567	7866938.584	4.632	251°00'07.39"
IP 2	37.620	480172.996	7866926.338	3.849	



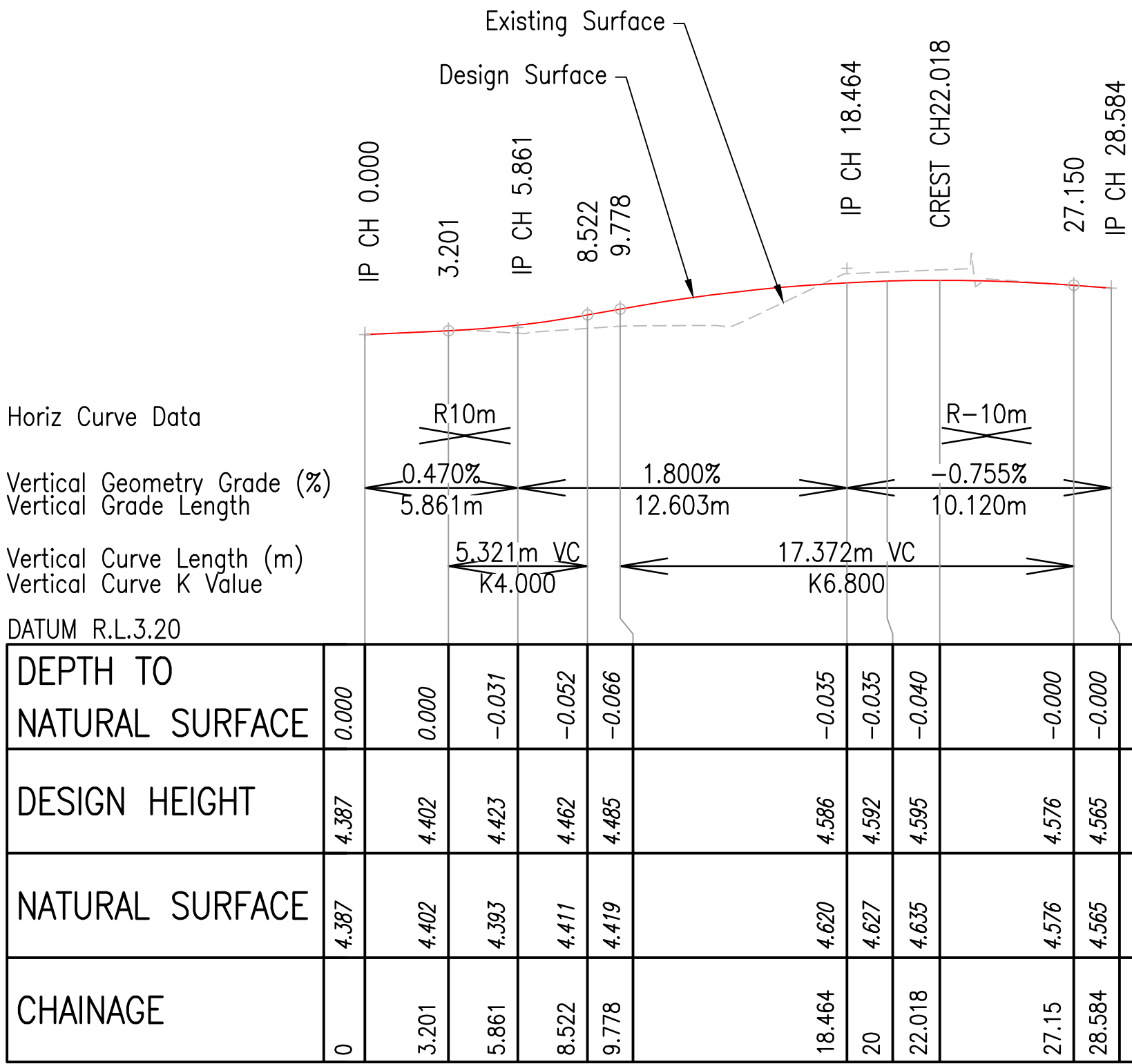
LONGSECTION MDH01 - TABLE DRAIN

NOTES:

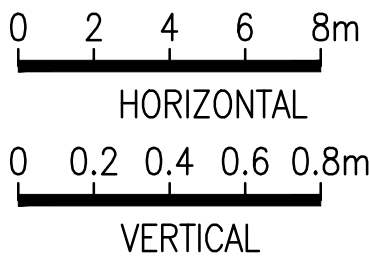
- 1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
- 2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
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Control Line MCH03 Setout

PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	480256.287	7867062.093	4.387	161°16'35.80"			
TC	3.757	480257.493	7867058.534	4.405	161°16'35.80"			
IP 2	3.832	480257.517	7867058.464	4.405		R = 10.000	0.149	0°51'09.26"
CT	3.906	480257.540	7867058.393	4.406	162°07'45.07"			
TC	23.706	480263.616	7867039.549	4.593	162°07'45.07"			
IP 3	23.815	480263.649	7867039.445	4.593		R = -10.000	0.218	1°14'46.31"
CT	23.924	480263.685	7867039.342	4.593	160°52'58.75"			
IP 4	28.584	480265.211	7867034.939	4.565	160°52'58.75"			



LONGSECTION MCH03 – BURSTALL STREET



P01 FOR APPROVAL	RM	BM	2026/05/15
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RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title
ROAD LONGITUDINAL SECTIONS
SHEET 3 OF 3

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision P01 Drawing No. 304702009-STN-02-005-DR-CI-000105

NOTES:

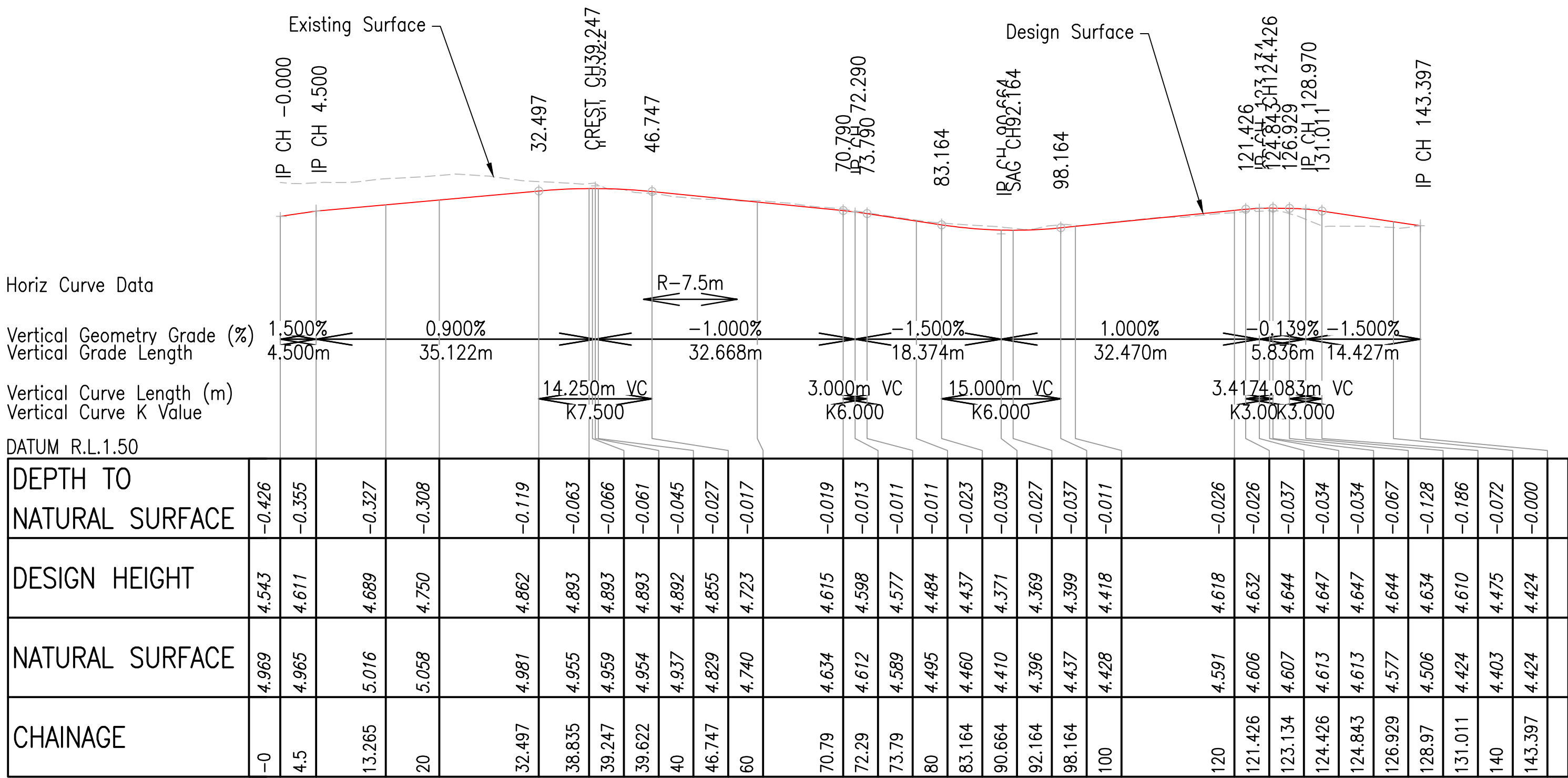
1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
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Control Line FTH05 Setout

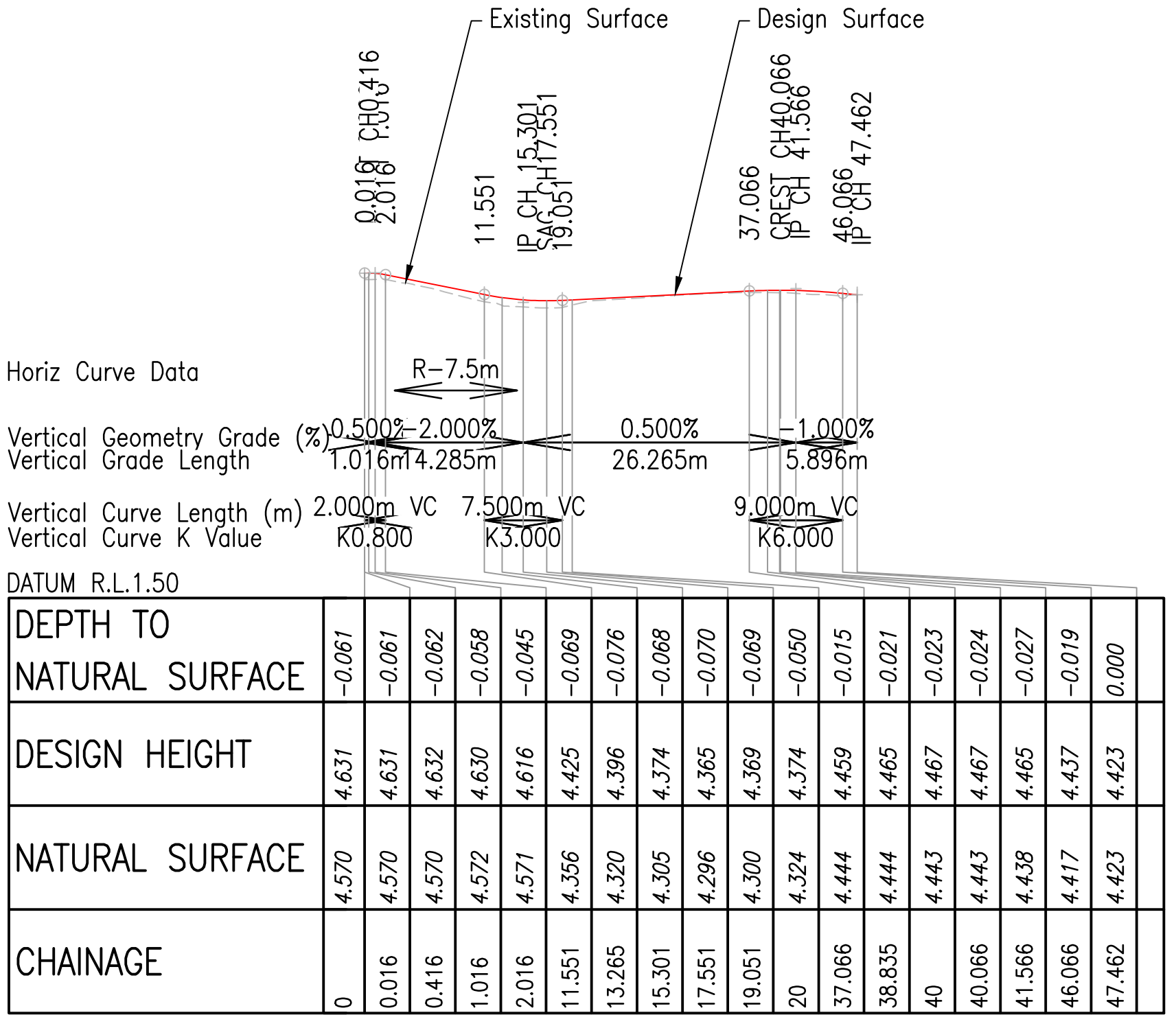
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	480231.072	7866951.869	4.543	71°00'11.32"			
TC	45.681	480274.265	7866966.739	4.865	71°00'11.32"			
IP 2	51.571	480281.356	7866969.181	4.807		R = -7.500	11.781	89°59'56.32"
CT	57.462	480278.915	7866976.272	4.748	341°00'15.00"			
IP 3	126.554	480256.426	7867041.601	4.644				
IP 4	143.397	480251.962	7867057.842	4.424	344°37'55.15"			

Control Line FTH06 Setout

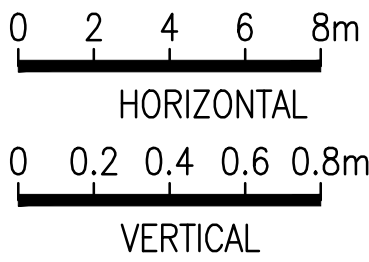
PT	CHAINAGE	EASTING	NORTHING	HEIGHT	BEARING	RAD/SPIRAL	A.LENGTH	DEFL.ANGLE
IP 1	0.000	480268.260	7867044.089	4.631	161°00'15.01"			
TC	2.908	480269.207	7867041.340	4.598	161°00'15.01"			
IP 2	8.798	480271.648	7867034.248	4.480		R = -7.500	11.781	90°00'00.01"
CT	14.689	480278.739	7867036.689	4.379	71°00'15.00"			
IP 3	40.172	480302.835	7867044.984	4.467				
IP 4	47.462	480309.837	7867047.012	4.423	73°51'06.38"			



LONGSECTION FTH05 – BURSTALL STREET FOOTPATH



LONGSECTION FTH06 – COLVIN STREET FOOTPATH



P01 FOR APPROVAL
Issued/Revision

RM
By

BM
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2026/05/15
YYYY.MM.DD

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OONOONBA PDA
HOLYOAK AVENUE & BURSTALL STREET

RM
Dwn.

RM
Dsgn.

GJ
Chkd.

BM
Appd.

2026/05/15
YYYY.MM.DD

Title
PATHWAY LONGITUDINAL SECTIONS

Project No. 304702009 Auth. Ref. BM 24432 Scale at A1 AS SHOWN

Revision P01 Drawing No. 304702009-STN-02-005-DR-CI-000106

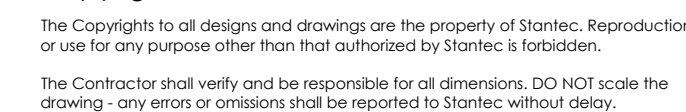


1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
3. Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks plan
4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
5. Refer drawing 304702009-STN-02-005-DR-CI-150 to 151 for linemarking and signs plan
6. Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
7. Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
8. Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

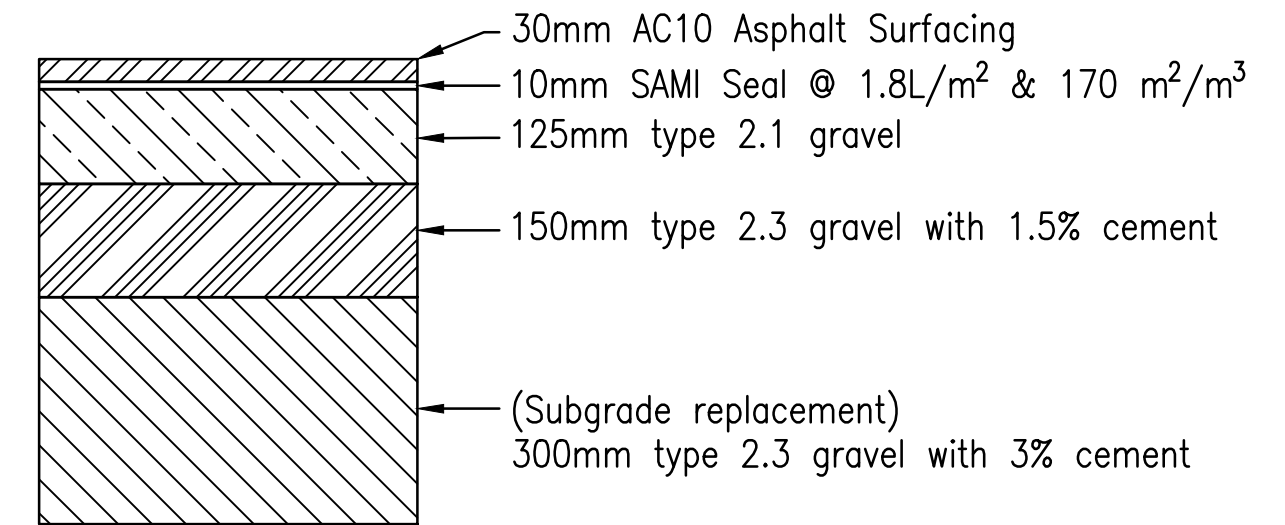
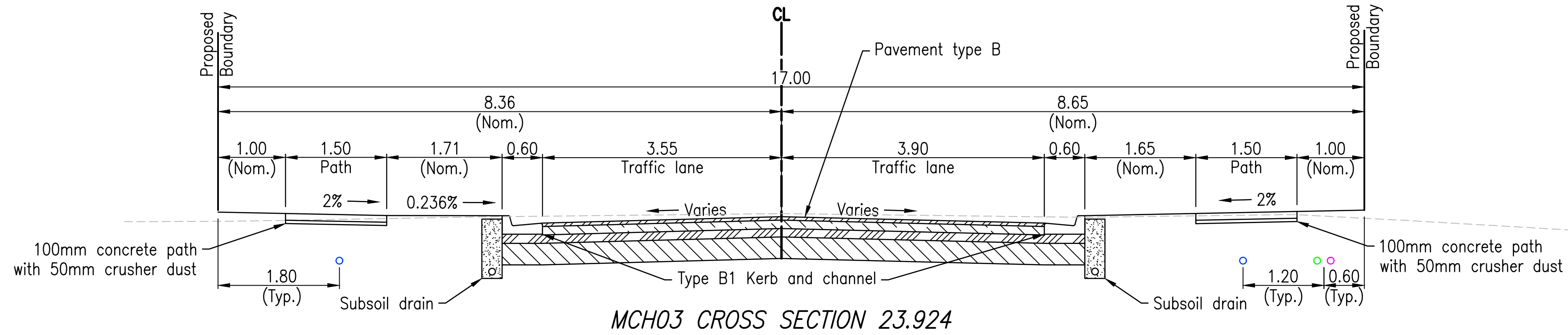
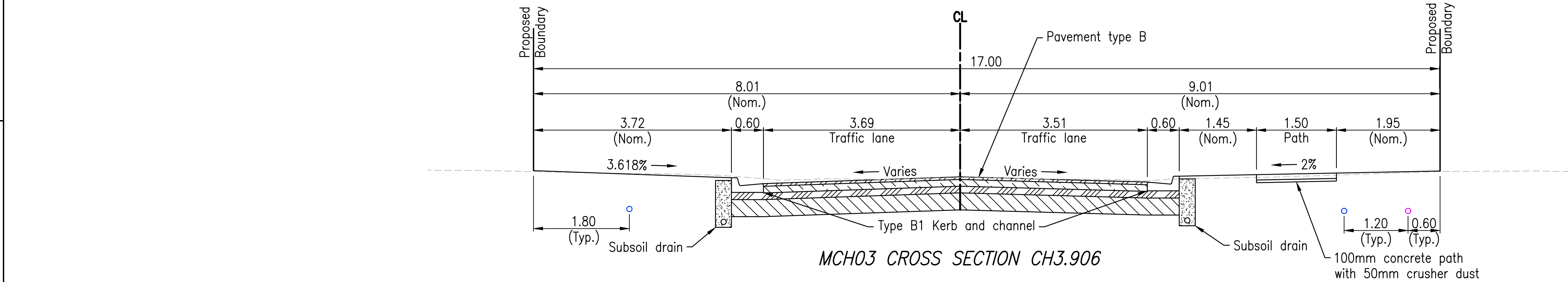
Revision	Drawing No.
P01	304702009-STN-02-005-DR-CI-000107

C

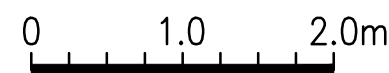
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A

U:\304702009\Technical drawings\working\Separable\Partial\304702009-STN-02-005-DR-CI-000100.dwg
Plotted: McGehee, Ron Date: 15/01/2025 7:51:17 AM



- NOTES:
- Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
 - Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
 - Refer drawing 304702009-STN-02-005-DR-CI-090 to 091 for earthworks plan
 - Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
 - Refer drawing 304702009-STN-02-005-DR-CI-150 to 151 for linemarking and signs plan
 - Refer drawing 304702009-STN-02-005-DR-CI-200 to 201 for sewer details and longsection
 - Refer drawing 304702009-STN-02-005-DR-CI-300 to 301 for water reticulation
 - Refer drawing 304702009-STN-02-005-DR-CI-400 to 440 for stormwater catchments, layout and longsections



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Economic Development Queensland

Client/Project

ECONOMIC DEVELOPMENT QUEENSLAND

OONONBA PDA

HOLYOAK AVENUE & BURSTALL STREET

RM	RM	GJ	BM	2026/05/15
Dwn.	Dsgn.	Chkd.	Appd.	YYYY.MM.DD

Title

ROAD TYPICAL CROSS SECTIONS

SHEET 2 OF 2

Project No. 304702009

Auth. Ref. BM 24432

Scale at A1 AS SHOWN

Revision P01

Drawing No. 304702009-STN-02-005-DR-CI-000108

C

B

A

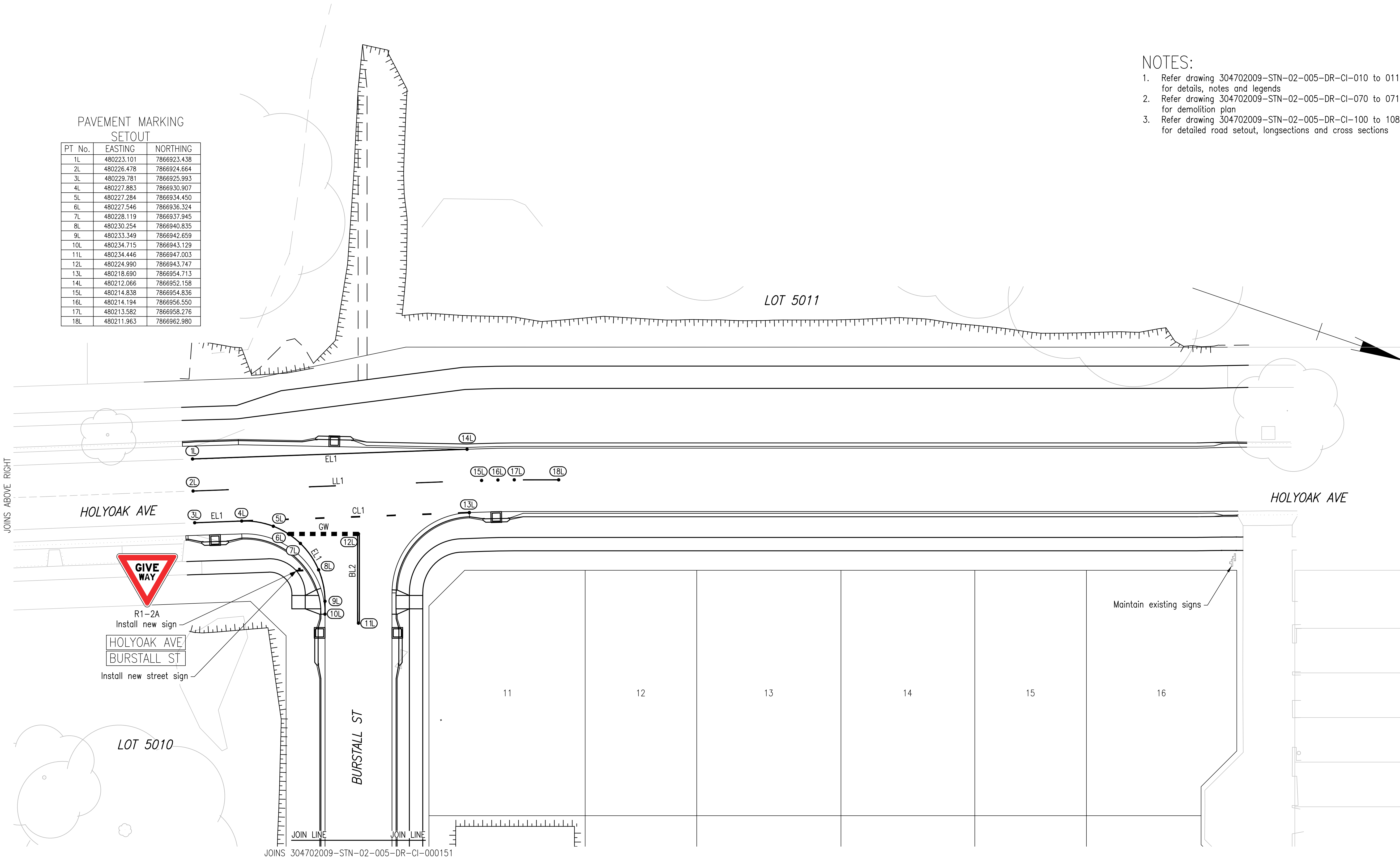
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NOTES:

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
3. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections

PAVEMENT MARKING
SETOUT

PT No.	EASTING	NORTHING
1L	480223.101	7866923.438
2L	480226.478	7866924.664
3L	480229.781	7866925.993
4L	480227.883	7866930.907
5L	480227.284	7866934.450
6L	480227.546	7866936.324
7L	480228.119	7866937.945
8L	480230.254	7866940.835
9L	480233.349	7866942.659
10L	480234.715	7866943.129
11L	480234.446	7866947.003
12L	480224.990	7866943.747
13L	480218.690	7866954.713
14L	480212.066	7866952.158
15L	480214.838	7866954.836
16L	480214.194	7866956.550
17L	480213.582	7866958.276
18L	480211.963	7866962.980



JOINS 304702009-STN-02-005-DR-CI-000151

0 2 4 6 8m

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Client/Project

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Dwn.

RM
Dsgn.

GJ
Chkd.

BM
Appd.

2026/05/15
YYYY.MM.DD

Title

LINEMARKING AND SIGNS
SHEET 1 OF 2

Project No.
304702009

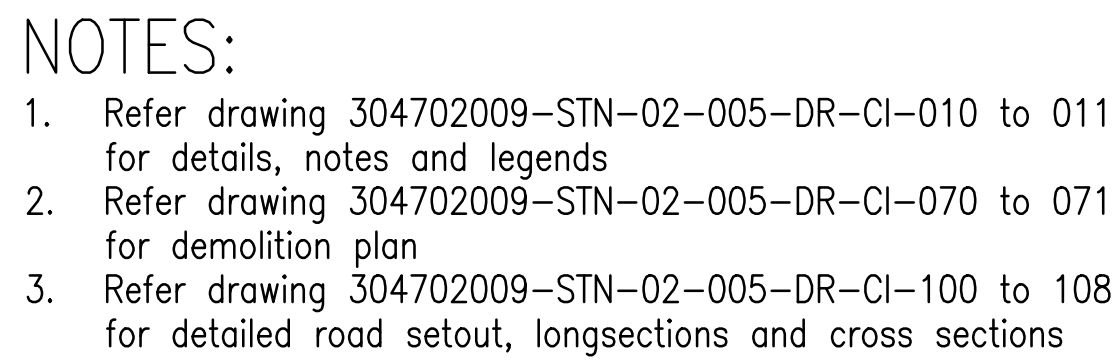
Auth. Ref.
BM 24432

Scale at A1
AS SHOWN

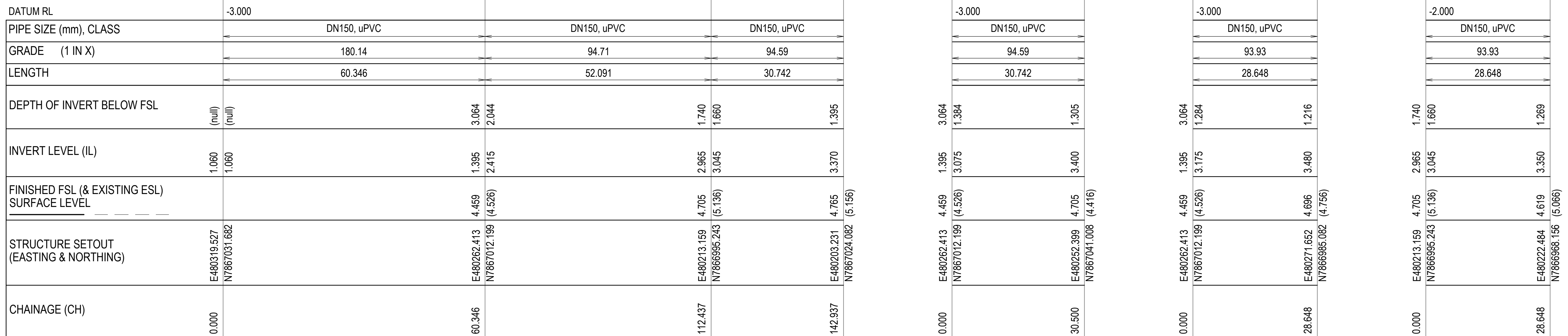
Revision
P01

Drawing No.

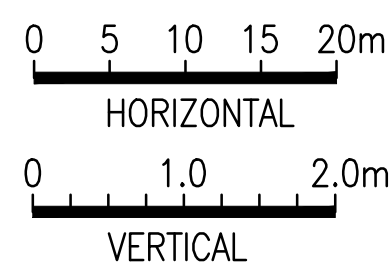
304702009-STN-02-005-DR-CI-000150



1/9



SEWER LONGITUDINAL SECTION
SCALE 1:500 HORIZONTAL, SCALE 1:50 VERTICAL



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OONOONBA PDA
HOLYOAK AVENUE & BURSTALL STREET

GC	RM	GJ	BM	2026/05/15
Dwn	Dsn	Chkd	Anpd	YYYY MM DD

Title

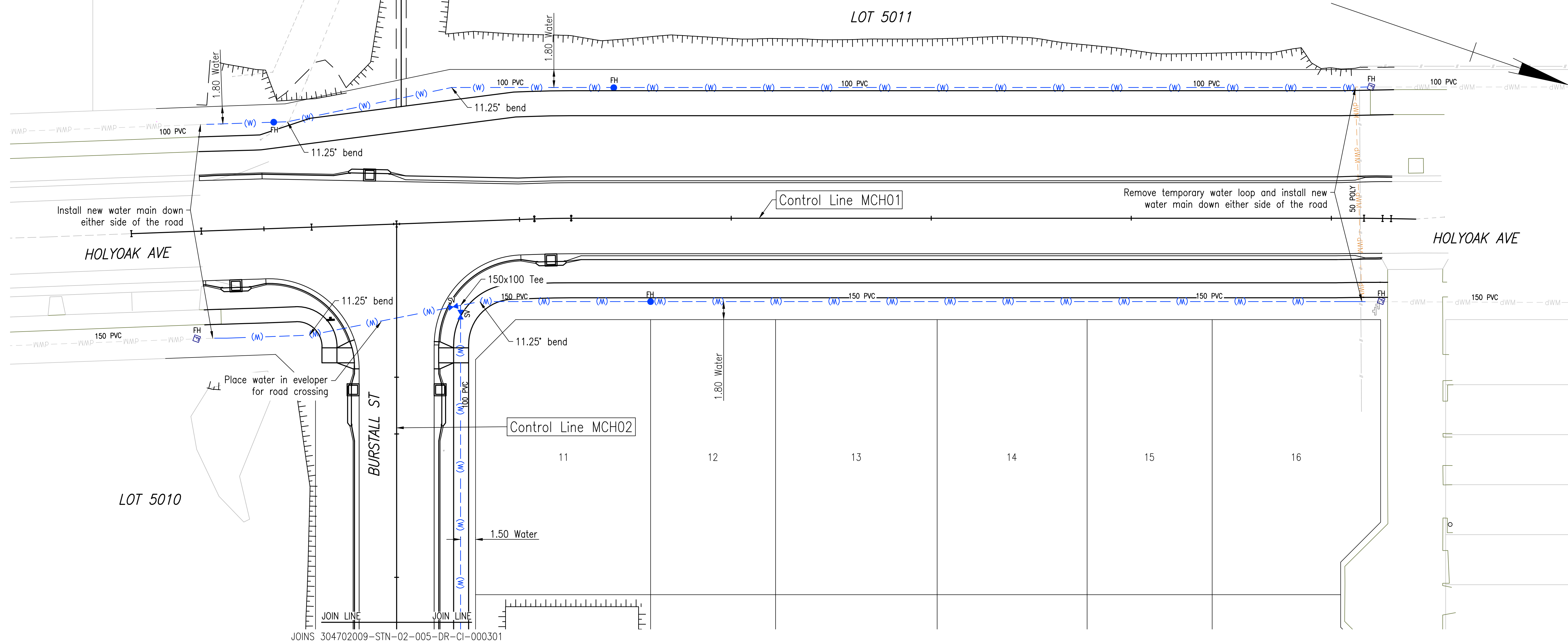
SEWER LONGITUDINAL SECTION
SHEET 1 OF 1

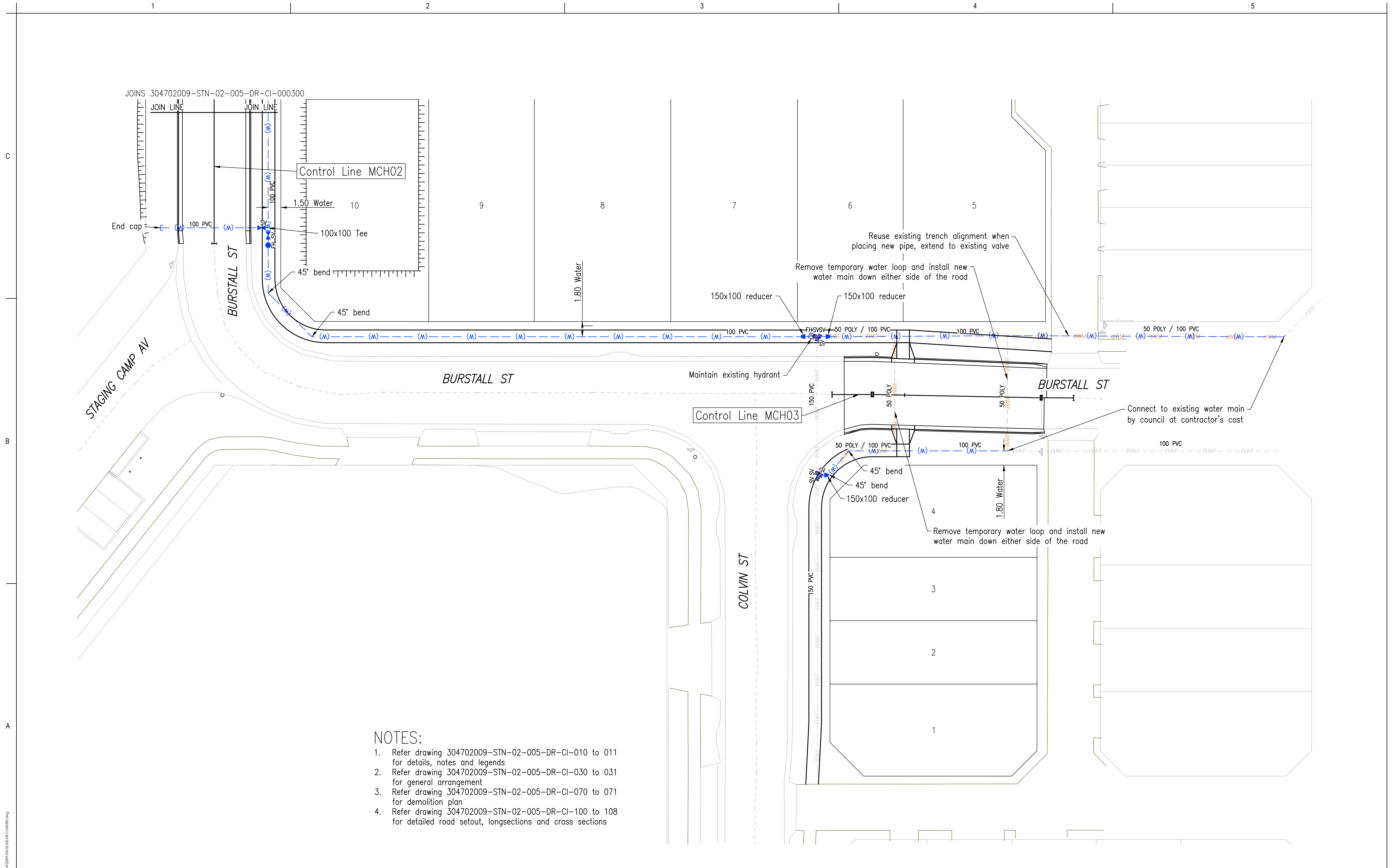
Project No.	Auth. Ref.	Scale at A1
304702009	BM 24432	AS SHOWN

Revision Drawing No.

P01 304702009-STN-02-005-DR-CI-000201

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-030 to 031 for general arrangement
3. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections





NOTES:

- 1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
- 2. Refer drawing 304702009-STN-02-005-DR-CI-030 to 031 for general arrangement
- 3. Refer drawing 304702009-STN-02-005-DR-CI-070 to 071 for demolition plan
- 4. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections

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Plotted: McGeach, Ron Date: 15/03/2024 7:54:07 AM

0 2 4 6 8m

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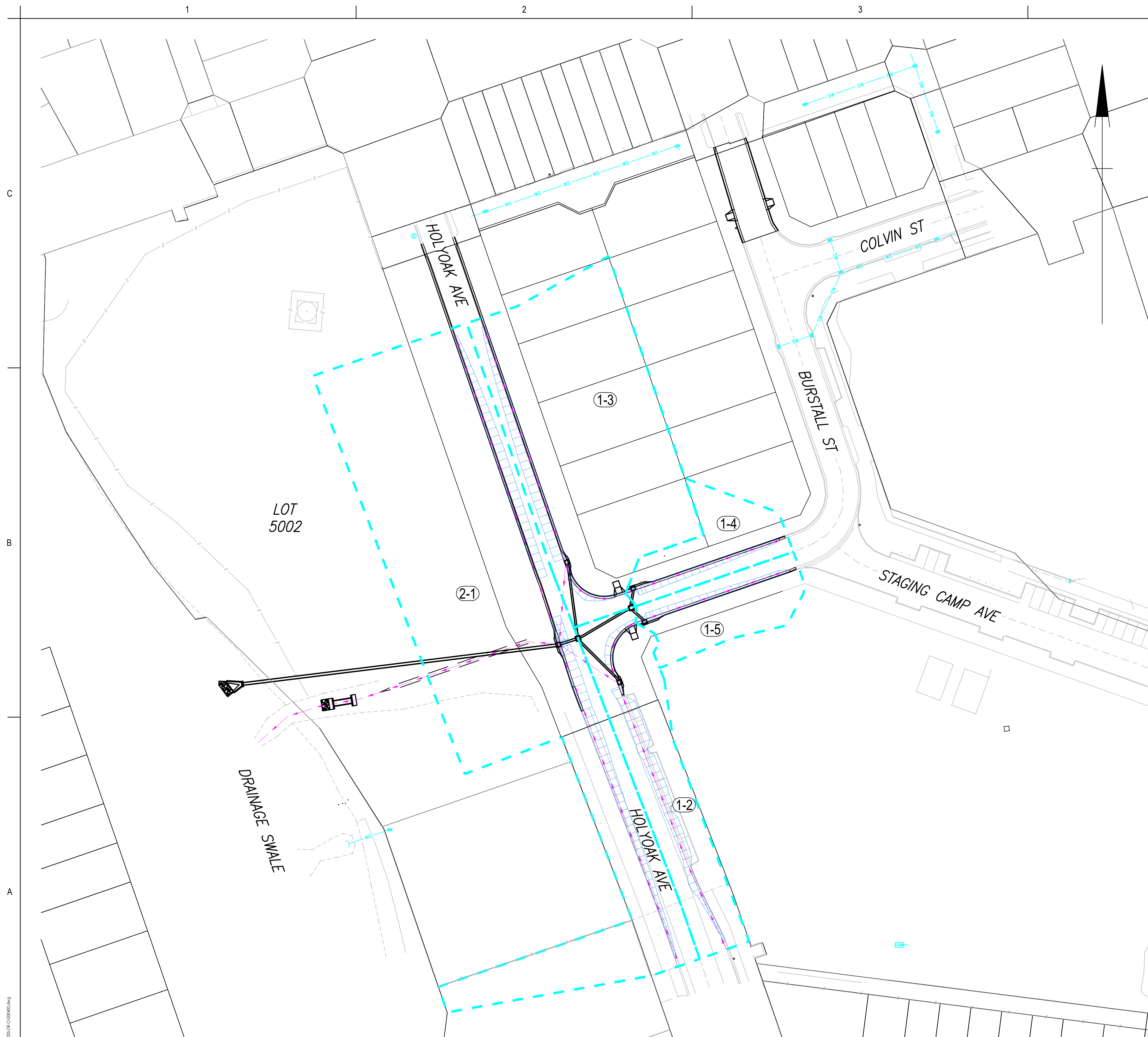
WATER RETICULATION
SHEET 2 OF 2

Project No. 304702009 Auth. Ref. BM 24432

Scale at A1
AS SHOWN

Revision
P01

Drawing No.
304702009-STN-02-005-DR-CI-000301

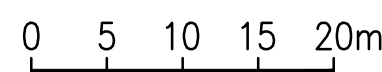


LEGEND

- Flood Width
- Flow Arrow
- Catchment Boundary
- Catchment Label

CATCHMENT NUMBER	AREA (HA)
2-1	0.5139
1-2	0.1157
1-3	0.2756
1-4	0.0555
1-5	0.0595

NOTES:



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Title

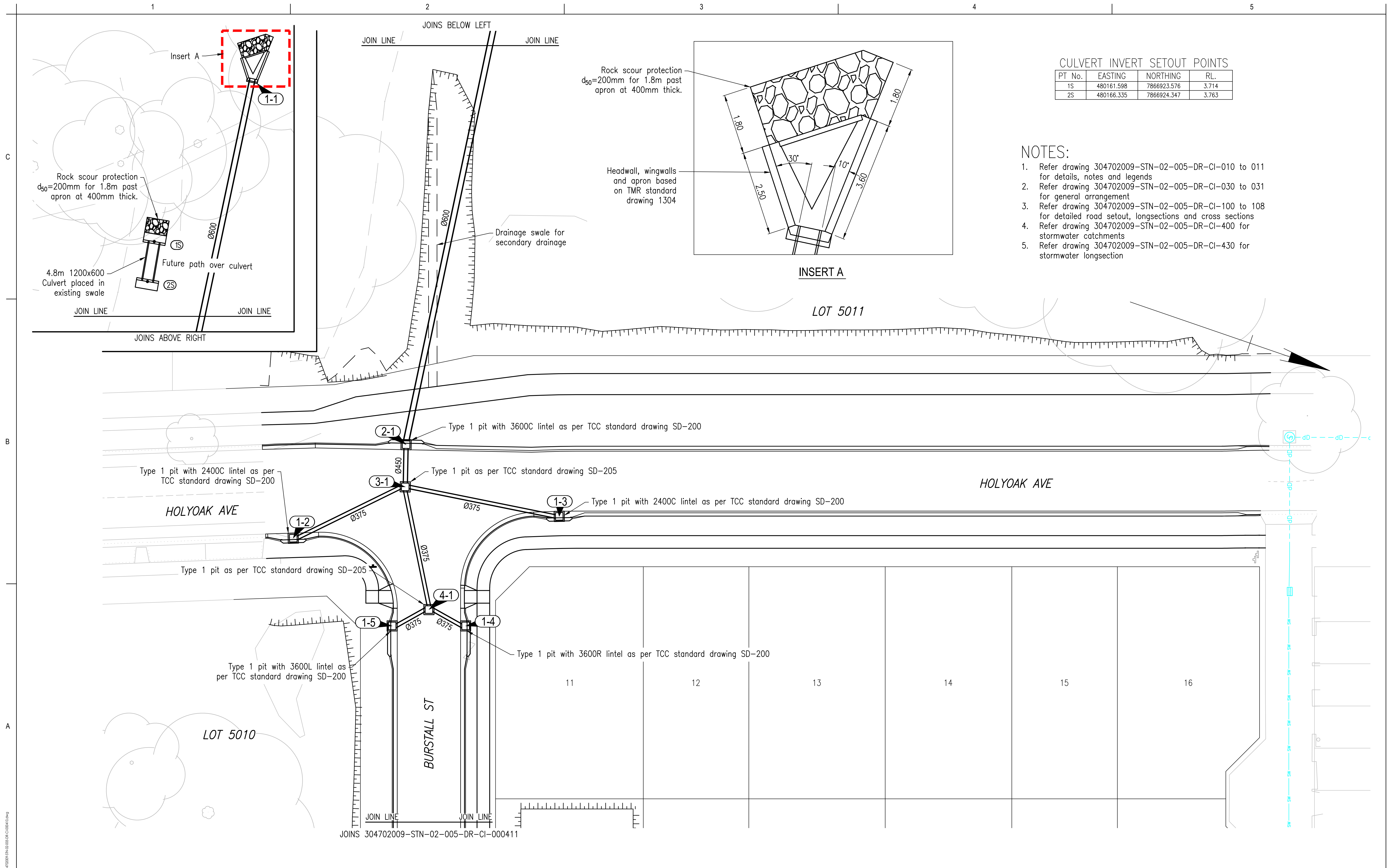
Project No.
304702009

Revision
P01

Auth. Ref.
BM 2443

Scale at A1
AS SHOWN

304702009-STN-02-005-DR-CI-000400



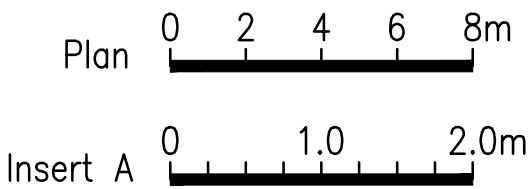
CULVERT INVERT SETOUT POINTS

PT No.	EASTING	NORTHING	RL.
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2S	480166.335	7866924.347	3.763

NOTES:

1. Refer drawing 304702009-STN-02-005-DR-CI-010 to 011 for details, notes and legends
2. Refer drawing 304702009-STN-02-005-DR-CI-030 to 031 for general arrangement
3. Refer drawing 304702009-STN-02-005-DR-CI-100 to 108 for detailed road setout, longsections and cross sections
4. Refer drawing 304702009-STN-02-005-DR-CI-400 for stormwater catchments
5. Refer drawing 304702009-STN-02-005-DR-CI-430 for stormwater longsection

U:\304702009\Technical\Drawings\Stormwater\Separable\Joiner\304702009-STN-02-005-DR-CI-000411.dwg
Plotted: McGeehan, Ron Date: 15/01/2024 7:54:28 AM



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RM LV GJ BM 2026/05/15
Dwn. Dsgn. Chkd. Appd. YYYY.MM.DD

Title

STORMWATER LAYOUT
SHEET 1 OF 2

Project No. 304702009
Auth. Ref. BM 24432

Scale at A1
AS SHOWN

Revision P01
Drawing No. 304702009-STN-02-005-DR-CI-000410

B

1. Refer drawing 304702009-STN-02-005-DR-CI-400 for stormwater catchments
2. Refer drawing 304702009-STN-02-005-DR-CI-410 to 411 for stormwater layout
3. Refer drawing 304702009-STN-02-005-DR-CI-430 for stormwater longsection

[illegible]