YOUR REF:

OUR REF: OP 2417/2017 (857019)

4 June 2018

DATSIP
C/- Trinity Engineering & Consulting
PO Box 7963
CAIRNS QLD 4870

Attention: Scott Christensen

Dear Sir

DECISION NOTICE FOR OPERATIONAL WORKS - MOSSMAN GORGE COMMUNITY – MOSSMAN GORGE

Please find attached the relevant Decision Notice for the above Operational Works. Also find attached a 'Pre-Start' meeting template, which identifies the information that must be provided for Council approval, prior to the commencement of works.

The template also provides the Consulting Engineer with a format for conducting the meeting. An invitation to attend the meeting must be sent to Council's representative Neil Beck on telephone number 07 4099 9451, giving at least five (5) working days notification if possible.

In addition to the Decision Notice, Council provides the following 'Advice Statement' which relates to issues that are relevant to the proposed works:

- 1. The design of lighting works are subject to separate agreement and must be submitted to Council, prior to the commencement of associated works; and
- The Consulting Engineer is to present all contractors with a copy of this
 Decision Notice and the Council approved plans, prior to the commencement
 of works.

Should you require further information or assistance, please contact Neil Beck of Development Assessment and Coordination on telephone 07 4099 9451.

Yours faithfully

Paul Hoye Manager Sustainable Communities

Att

Copy To: A/Manager Infrastructure – Peter Logan Co-ordinator Water & Waster – Peter White Co-ordinator Civil Works – Daryl Cheer

YOUR REF:

OUR REF: OP 2417/2017 (857019)

4 June 2018

DECISION NOTICE FOR OPERATIONAL WORKS MOSSMAN GORGE COMMUNITY – MOSSMAN GORGE

PROPOSAL:

Operational Works (Engineering) excluding Lighting Works

TYPE OF DEVELOPMENT:

Operational Work

REAL PROPERTY DESCRIPTION:

Lot 100 on RP911412 & Lot 152 SR832

REFERRAL AGENCY CONDITIONS:

None applicable

FURTHER DEVELOPMENT PERMITS OR APPROVALS REQUIRED:

None applicable

DECISION DATE:

4 June 2018

DECISION:

Approved subject to conditions

TYPE OF APPROVAL:

Development Permit

ASSESSMENT MANAGER CONDITIONS - STANDARD:

The standard conditions are shown in Appendix B and must be read in conjunction with any approved plans and project specific conditions identified below.

ASSESSMENT MANAGER CONDITIONS - PROJECT SPECIFIC:

1. General

- a. The conditions require amendments to the drawings. The revised drawings must be submitted "for construction" and must be certified as approved by a registered professional engineer of Queensland (RPEQ).
- An updated Statement of Compliance must be provided with the revised drawings required under the conditions of this approval.
 Reference is made to FNQROC Development Manual (refer Appendix A of Application Procedures (AP1)).
- c. Materials shall be in accordance with the provisions of the FNQROC Development Manual. Where alternative materials are proposed details are to be provided to Council for consideration and approval prior to incorporation into the works.

2. Earthworks

a. The applicant is to ensure that any earthworks undertaken as part of the works maintains a free draining surface with no ponding of standing water resulting. Any amendments proposed to the existing finished surface profiles are to be identified and reported to Council prior to being undertaken on site. Resultant amendments shall be recorded on as constructed drawings to be submitted at the completion of the project.

3. Site Establishment

The contractor's site compound is to be agreed with community and Council representatives prior to establishment on site. The site is to be secured when not attended and clear signage displayed to identify the site as a no go area for the public. The site is to be kept in a clean and tidy state for the duration of the project and rehabilitated to the same condition prior to the project commencing.

Photos of the site are to be taken before establishing to document the site condition.

4. Traffic Management & Staging of Works

The contractor shall prepare a traffic management and staging plan for the works. The works shall be undertaken in order to minimise the disruption to the community. At least weekly updates shall be provided to the community and Council identifying the following:

- a. Works to be undertaken in the upcoming week
- b. Probable works in the upcoming fortnight
- c. Traffic and pedestrian management plans for the planned works

These plans shall be clearly displayed in the community no later than the midday on the Friday of the preceding week.

Where works will impact residents directly (e.g. water supply cut off, car access not possible), the contractor shall, with a nominated member of the community, undertake face to face contact with the affected resident to explain the scope of the disruption and the measures in place to minimise the effect of the disruption.

5. Stormwater

Where properties have current connections to discharge roofwater to the kerb, the connection is to be reinstated in the new kerb. Where a connection is not existing a roofwater kerb adaptor is to be installed in the kerb at the low side of the property.

6. Water and Sewer

- a. Provision is to be made for the future installation of a booster station to be located on Lot 49. The arrangement shall be cut into the existing main. Details of the arrangement are to be shown on amended drawings and submitted to Council for approval prior to installation on site.
- b. As per the TEC Water Reticulation File Note, a new section of main is to be provided to connect Node 2 to Node 14. Details of the new main are to be shown on amended drawings and submitted to Council for approval prior to installation on site
- c. New water services are to be provided to each allotment, as per FNQROC requirements. The new service shall connect to the existing water service to each house, terminating at a new water meter, to be provided as part of these works.
- d. Any incident involving damage to water and sewerage infrastructure must be reported to Council immediately. Damage resulting from an incident or any defect to water and sewerage infrastructure found to be caused by the works will be repaired by Council at the Developer's cost.
- e. Where concrete footpaths are proposed in the verge for existing and new roads, conduits are to be provided under the footpath for future water connections to the property. At a minimum of two (2) conduits must be provided per lot located at either side of the lot. Suitable locating markers are to be installed per FNQROC Development Manual requirements. Please include a detail showing these on the drawings.

f. Sewage pump station;

- (i) The proposed FRP Packaged Sewage Pump Station is accepted in principle, however the applicant must provide Council with a copy of the "For Construction" drawings for the pump station prior to placing the order with the supplier. Council approval of the "For Construction" plans will be a holdpoint on this item.
- (ii) Details of the pump station switchboard, SCADA and telemetry are to be confirmed with Council's Water and Sewerage department prior to construction. All requirements to provide consistent operating systems are to be included in the works at no cost to Council. The requirements of the Douglas Shire Council Specific Clauses of FNQROC (D7.25 Telemetry Systems) must be included in the documentation. The applicant is advised to confirm these requirements with Council's Water and Sewer Officers at the earliest opportunity to avoid project delays.

- (iii) The new sewage pump station shall incorporate a trash basket within the zero manhole and macerator pump (Mono Muncher or approved equivalent) in the pump station.
- (iv) Details of the pump station switchboard, SCADA and telemetry are to be confirmed with Council's Water and Sewerage department prior to construction. All requirements to provide consistent operating systems are to be included in the works at no cost to Council. The requirements of the Douglas Shire Council Specific Clauses of FNQROC (D7.25 Telemetry Systems) must be included in the documentation. The applicant is advised to confirm these requirements with Council's Water and Sewer Officers at the earliest opportunity to avoid project delays.
- (v) Amended drawings are required for the overflow detail to confirm the location of the valve. Council is not permitted to have an open overflow that may allow storm water ingress or uncontrolled release of sewage.
- (vi) The applicant is to provide calculations of the overflow operation including hydraulic grade line based on downstream tail water level at the outlet. Note the outlet level in a sewage overflow scenario will not be the same as the hydraulic grade level for the stormwater minor flow system. The additional calculations are to confirm sufficient freeboard exists to all residential lots in the local sewage catchment in the event of a sewage overflow for the outlet at the proposed location and levels.
- g. A detailed methodology for the decommissioning of the existing sewage pump station is to be provided to Council for approval prior to decommissioning works commencing. The methodology should be submitted a minimum of 3 weeks prior to the commencement of decommissioning to enable council to review and approve.

As a minimum the methodology shall address:

- 1. Pump station changeover plan including step by step actions
- 2. Proposed method to isolate the existing pump station
- 3. Proposed method to demolish existing pump station including the treatment of the pump station site.

7. Roads and Paths

- a. Pavement design details are to be confirmed prior to pavement construction. Details provided to Council shall include subgrade CBR results for each pavement section, confirmation of traffic loadings adopted (as per FNQROC requirements) and final pavement design.
- b. Where proposed roadworks or verge works lower the existing finished surface level and result in a reduction of cover over services, the services must be accurately located and the relevant authority contacted to confirm required treatments.
 - Where final covers are non standard (with the approval of the relevant authority) this is to be clearly identified on as constructed drawings and approvals from the authority provided as part of the handover package.

8. Erosion and Sediment Control

A copy of the Contractor's Erosion and Sediment Control (ESC) Plan is to be submitted to Council and endorsed by the Consulting Engineer, prior to commencement of any works. In particular, the ESC Plan must address the Institution of Engineers Australia Guidelines for Soil Erosion and Sediment Control and the Environment Protection (Water) Policy and Clauses CP1.05, CP1.13 and D5.10 of Council's FNQROC Development Manual.

The ESC Plan must be relevant to all phases of the construction and be updated where necessary as works progress. Individual drawings showing the measures to be installed for each phase of the works is required.

9. As Constructed Plans and Handover Documents

Given the nature of the project with existing infrastructure being handed over to Council the need for accurate records is critical. As Constructed and Handover Document must be in accordance with the requirements of the FNQROC Manual and should be presented as a consolidated model of new and existing infrastructure within the community.

Details of existing infrastructure identified during the construction phase as a result of services potholing, exposing existing infrastructure for connections, etc. shall be documented and included in the handover package to supplement the as constructed details.

In addition to the above, a full set of certified as constructed engineering plans must be submitted at Work Acceptance.

APPROVED PLANS AND SPECIFICATIONS:

Generally in accordance with the following drawings submitted by Trinity Engineering and Consulting subject to any alterations made by conditions of Development Permit for Operational Work OP 2417/2017.

Drawing No.	Title	Revision
1020-001	LOCALITY PLAN & DRAWING SCHEDULE	D
1020-002	GENERAL ARRANGMENT	С
1020-003	ROADWORKS & STORMWATER PLAN – SHEET 1 OF 2	D
1020-004	ROADWORKS & STORMWATER PLAN – SHEET 2 OF 2	D
1020-005	TYPE CROSS SECTIONS & CONTROL LINE SETOUT	С
1020-006	MISCELLANEOUS DETAILS	D
1020-007	ROAD LONGITUDINAL SECTIONS – SHEET 1 OF 3	С
1020-008	ROAD LONGITUDINAL SECTIONS – SHEET 2 OF 3	С
1020-009	ROAD LONGITUDINAL SECTIONS – SHEET 3 OF 3	С
1020-010	JUNKURRJI STREET ANNOTATED CROSS SECTIONS	С
1020-011	KANKARR STREET EAST & KANKARR STREET WEST ANNOTATED CROSS SECTIONS	С
1020-012	LUND STREET ANNOTATED CROSS SECTIONS -	С

	SHEET 1 OF 3				
1020-013	LUND STREET ANNOTATED CROSS SECTIONS – SHEET 2 OF 3	С			
1020-014	LUND STREET ANNOTATED CROSS SECTIONS – SHEET 3 OF 3	С			
1020-015	JANKAJI CLOSE, MANJAL CLOSE & WALKARR CLOSE ANNOTATED ROAD CROSS SECTIONS	С			
1020-016	BAMA BUBU STREET ANNOTATED CROSS SECTIONS	С			
1020-017	INTERSECTION SETOUT & DETAILS - SHEET 1 OF 3	D			
1020-018	INTERSECTION SETOUT & DETAILS - SHEET 2 OF 3	D			
1020-019	INTERSECTION SETOUT & DETAILS - SHEET 3 OF 3	D			
1020-020	INTERSECTION LINEMARKING & SIGNAGE PLAN	С			
1020-021	OF 2				
1020-022	STORMWATER LONGITUDINAL SECTIONS – SHEET 2 OF 2	С			
1020-023	STORMWATER STRUCTURE DETAILS	D			
1020-024	SEWERAGE RETICULATION PLAN – SHEET 1 OF 2	D			
1020-025	SEWERAGE RETICULATION PLAN – SHEET 2 OF 2	D			
1020-026	SEWERAGE LONGITUDINAL SECTIONS & DETAILS	D			
1020-027	SEWERAGE PUMP STATION PLAN & DETAILS	D			
1020-028	WATER RETICLATION PLAN – SHEET 1 OF 2	D			
1020-029	WATER RETICLATION PLAN – SHEET 2 OF 2	D			
1020-030	BO EROSION & SEDIMENT CONTROL STRATEGY SHEET 1 OF 2				
1020-031	EROSION & SEDIMENT CONTROL STRATEGY SHEET 2 OF 2	E			

Note – The approved plans above will require amending to satisfy conditions of this Development Permit.

EROSION AND SEDIMENT CONTROL DRAWINGS

The following drawings must form the basis of the contractor's Erosion and Sediment Control Plan in accordance with the *FNQROC Development Manual*, Clause CP1.06.

Drawing Description	No	Rev
EROSION & SEDIMENT CONTROL STRATEGY SHEET 1 OF 2	1020-030	Е
EROSION & SEDIMENT CONTROL STRATEGY SHEET 2 OF 2	1020-031	Е

For information relating to the *Sustainable Planning Act* 2009 log on to www.dsdip.qld.gov.au. To access the *FNQROC Development Manual*, Local Laws and other applicable Policies log on to www.douglas.qld.gov.au.

RIGHTS OF APPEAL

Attached

End of Decision Notice

Att

Appeal Rights Pre-Start Meeting Template Approved Drawings, Appendix A Standard Conditions, Appendix B

MOSSMAN GORGE And Consulting INFRASTRUCTURE UPGRADE

for

DEPARTMENT OF ABORIGINAL AND TORRES STRAIT ISLANDER PARTNERSHIPS

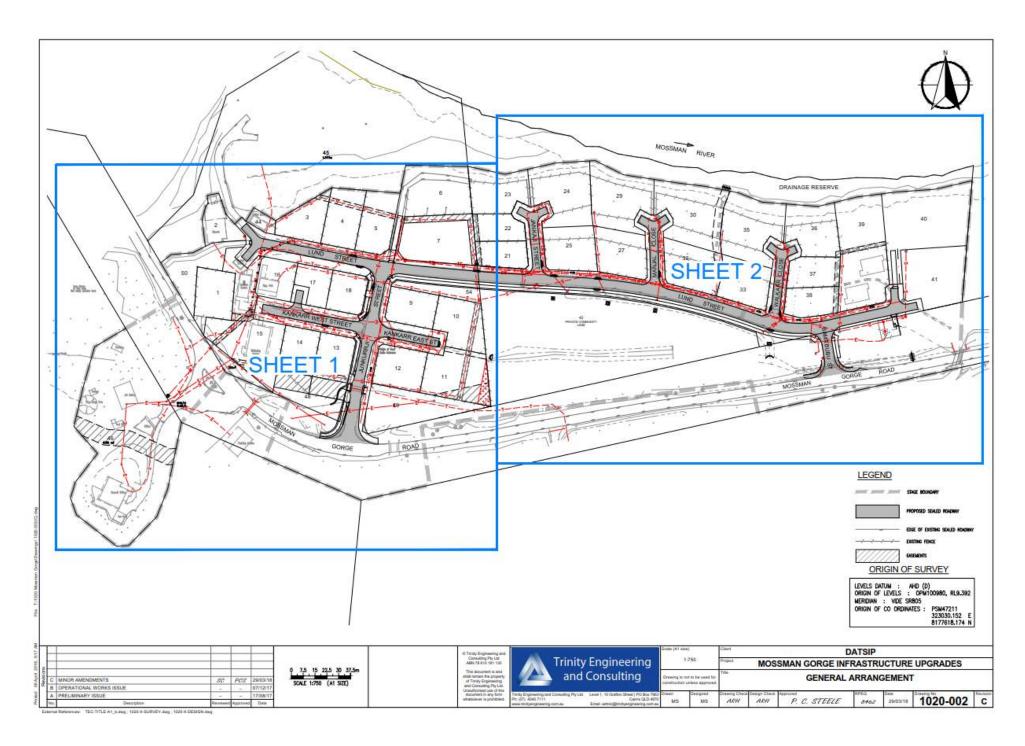


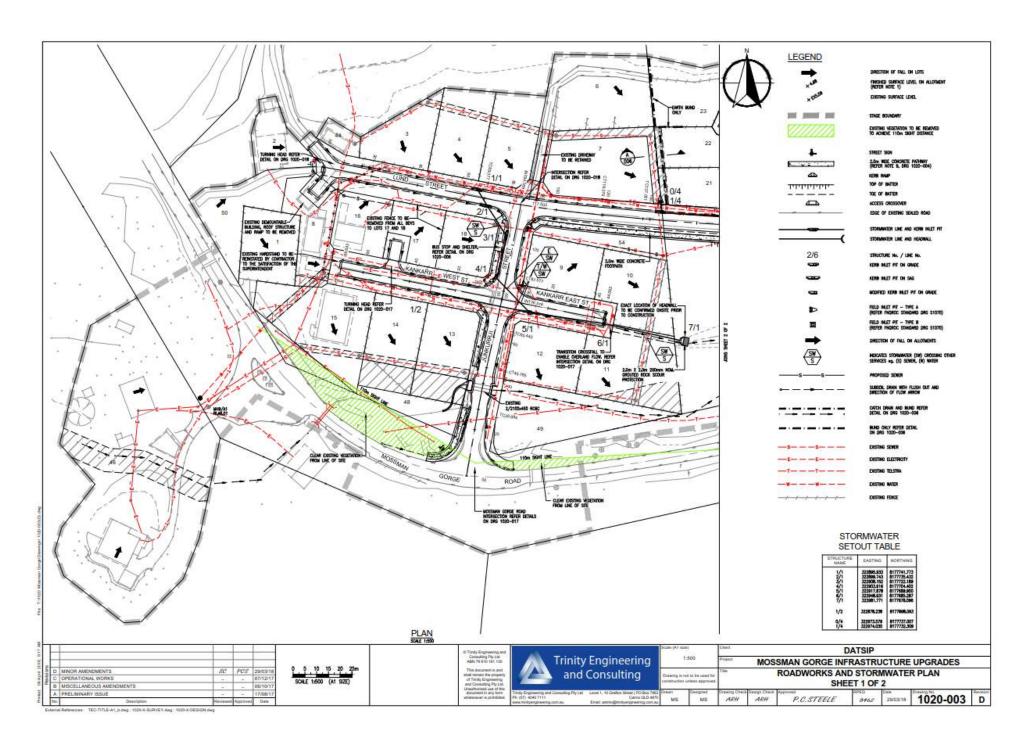
SCHEDULE OF PROJECT DRAWINGS

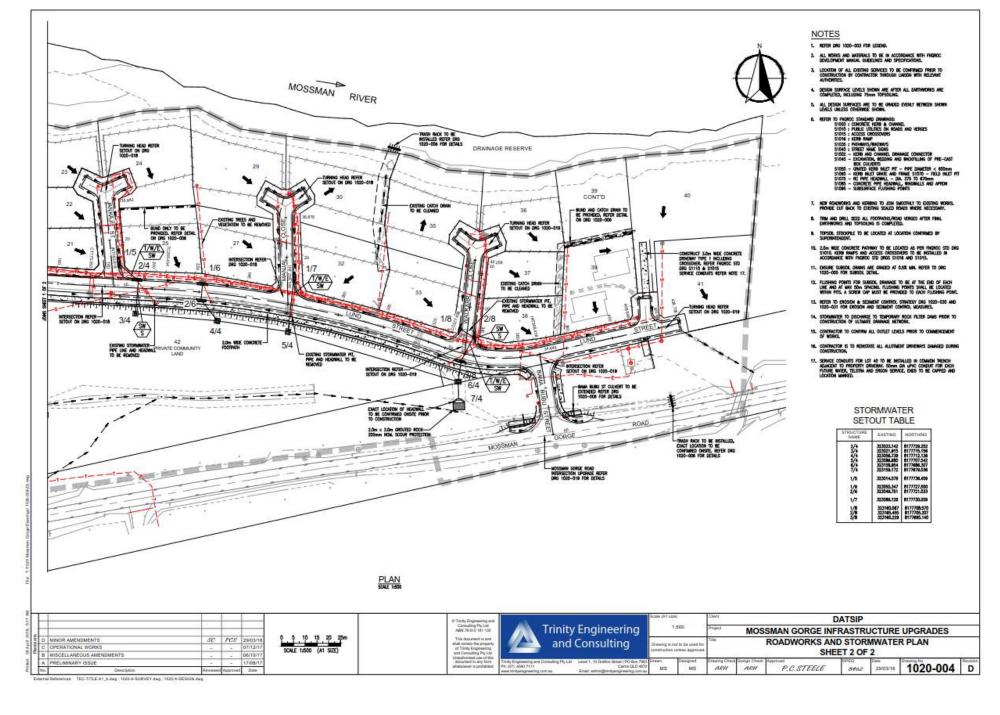
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LOCALITY PLAN AND DRAWING SCHEDULE
            GENERAL ARRANGEMENT
            ROADWORKS AND STORMWATER PLAN - SHEET 1 OF 2
            ROADWORKS AND STORMWATER PLAN - SHEET 2 OF 2
1020-004
            TYPE CROSS SECTIONS AND CONTROL LINE SETOUT
1020-006
            MISCELLANEOUS DETAILS
            ROAD LONGITUDINAL SECTIONS - SHEET 1 OF 3
            ROAD LONGITUDINAL SECTIONS - SHEET 2 OF 3
            ROAD LONGITUDINAL SECTIONS - SHEET 3 OF 3
1020-009
            JUNKURRJI STREET ANNOTATED CROSS SECTIONS
1020-010
1020-011
            KANKARR STREET EAST AND KANKARR STREET WEST ANNOTATED CROSS SECTIONS
           LUND STREET ANNOTATED CROSS SECTIONS - SHEET 1 OF 3
           LUND STREET ANNOTATED CROSS SECTIONS - SHEET 2 OF 3 LUND STREET ANNOTATED CROSS SECTIONS - SHEET 3 OF 3
            JANKAJI CLOSE, MANJAL CLOSE AND WALKARR CLOSE ANNOTATED CROSS SECTIONS
1020-016
           BAMA BUBU STREET ANNOTATED CROSS SECTIONS
1020-017
            INTERSECTION SETOUT AND DETAILS - SHEET 1 OF 3
           INTERSECTION SETOUT AND DETAILS - SHEET 2 OF 3
            INTERSECTION SETOUT AND DETAILS - SHEET 3 OF 3
            INTERSECTION LINEMARKING AND SIGNAGE PLAN
           STORMWATER LONGITUDINAL SECTIONS - SHEET 1 OF 2
            STORMWATER LONGITUDINAL SECTIONS - SHEET 2 OF 2
            STORMWATER STRUCTURE DETAILS
           SEWERAGE RETICULATION PLAN - SHEET 1 OF 2
1020-024
            SEWERAGE RETICULATION PLAN - SHEET 2 OF 2
            SEWERAGE LONGITUDINAL SECTIONS AND DETAILS
1020-027
            SEWERAGE PUMP STATION PLAN AND DETAILS
            WATER RETICULATION PLAN - SHEET 1 OF 2
            WATER RETICULATION PLAN - SHEET 2 OF 2
            EROSION AND SEDIMENT CONTROL STRATEGY - SHEET 1 OF 2
            EROSION AND SEDIMENT CONTROL STRATEGY - SHEET 2 OF 2
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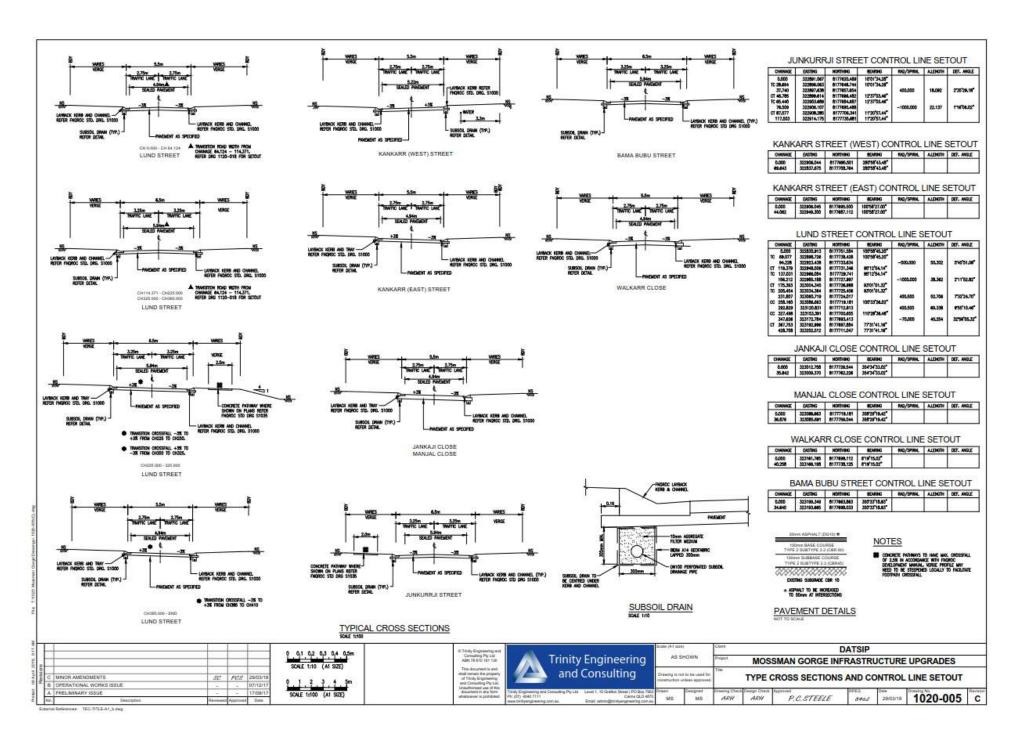
Trinity Engineering

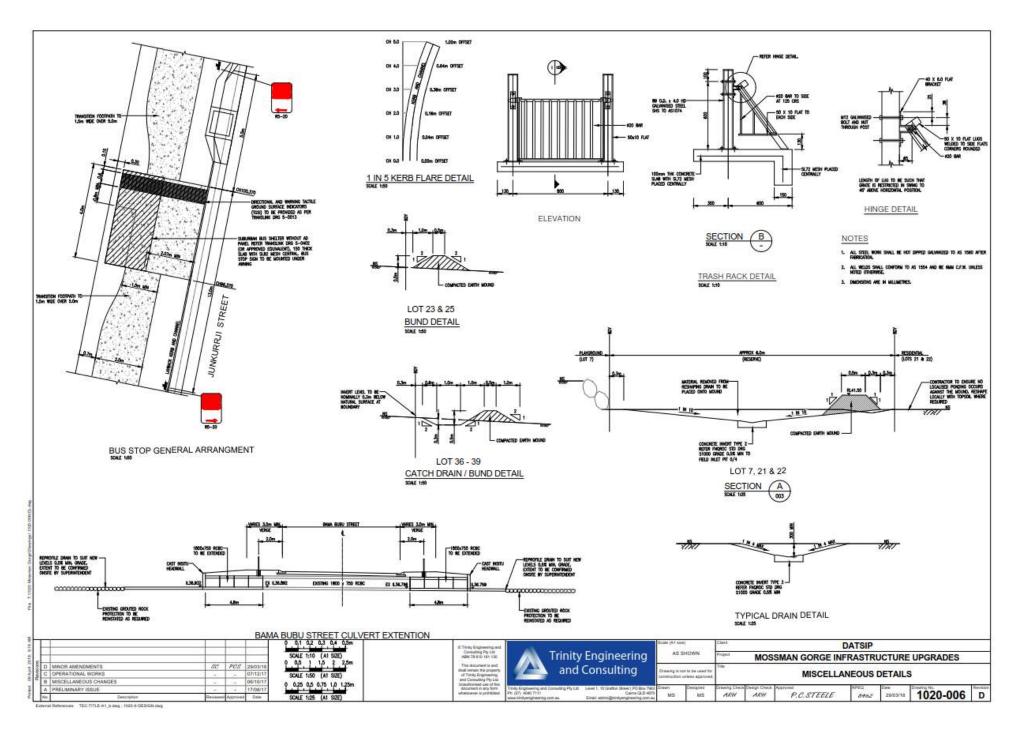
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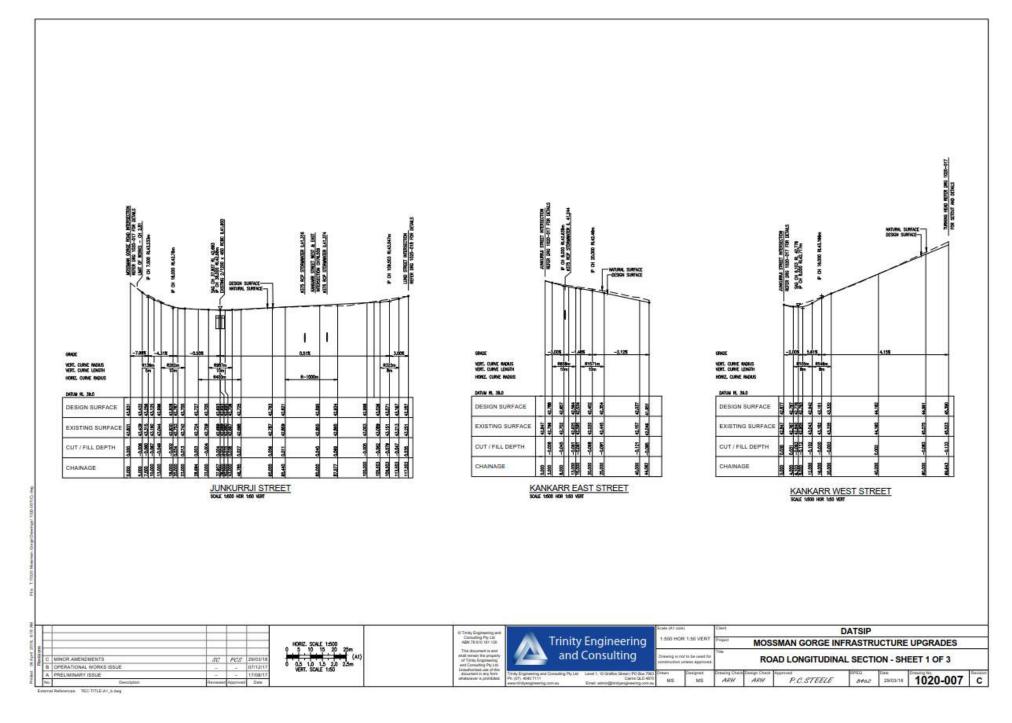


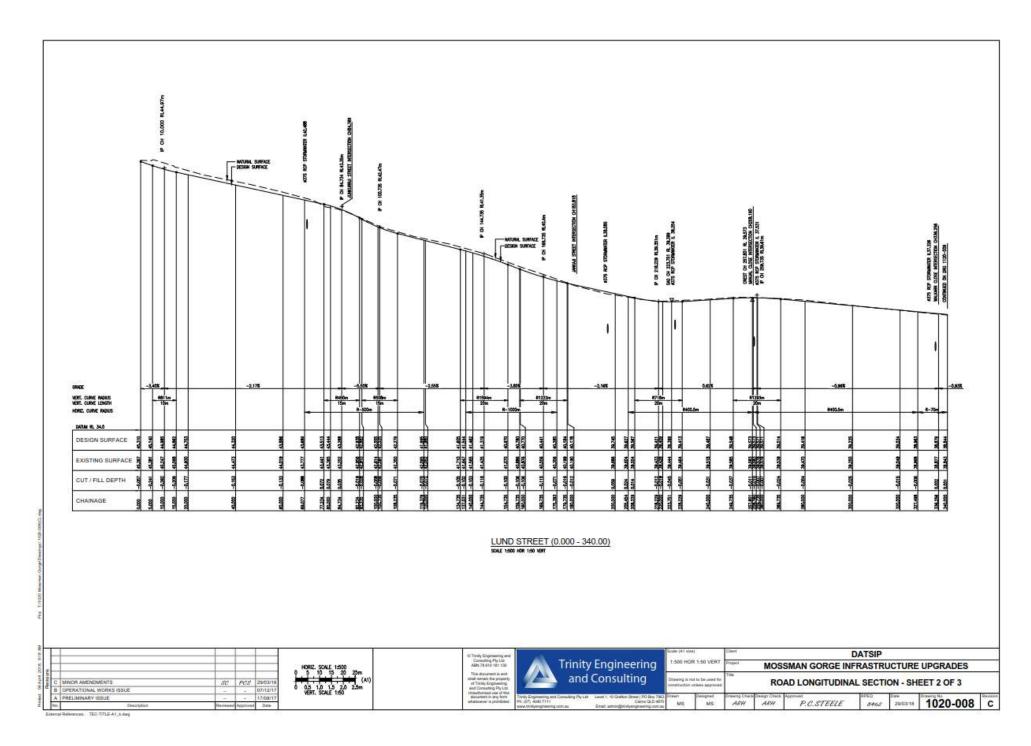


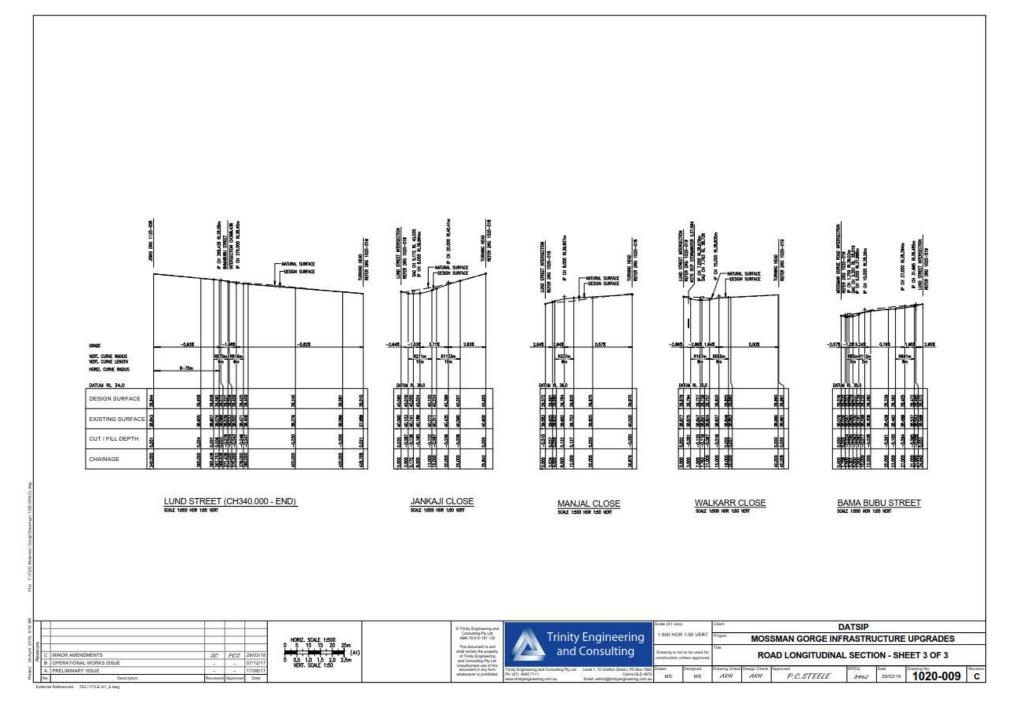




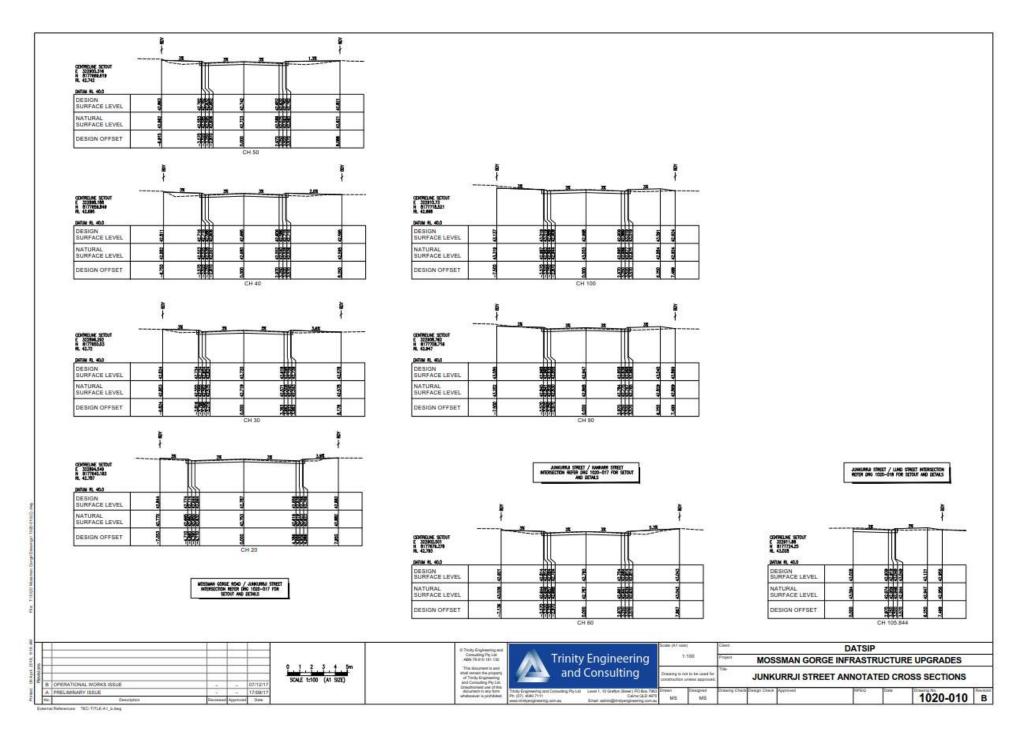


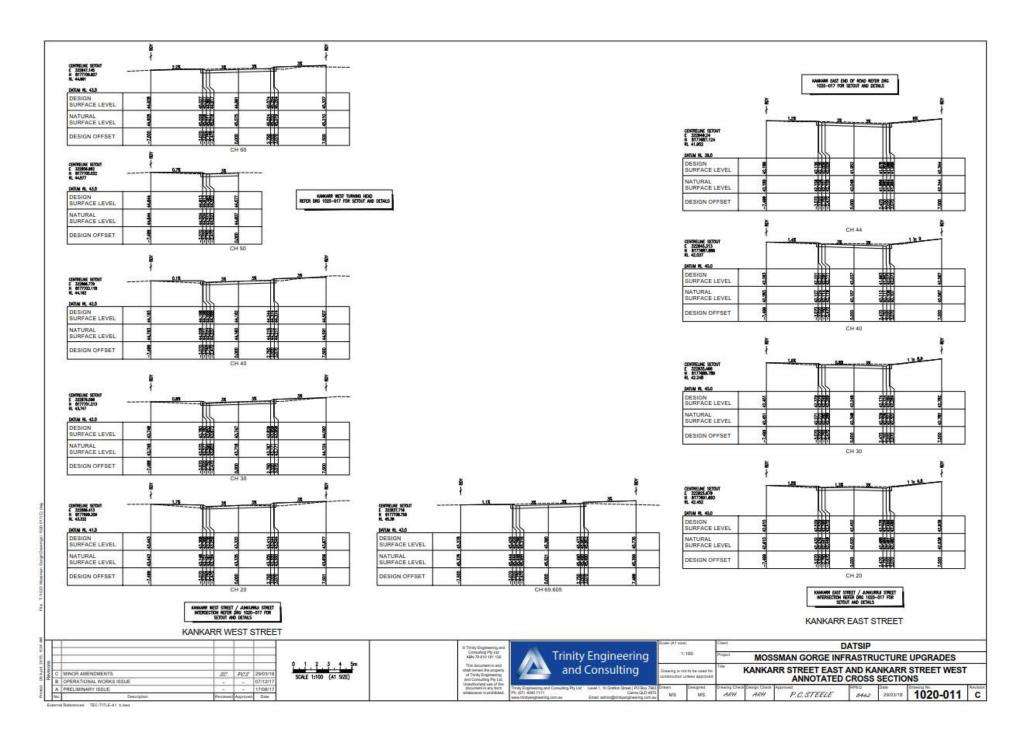


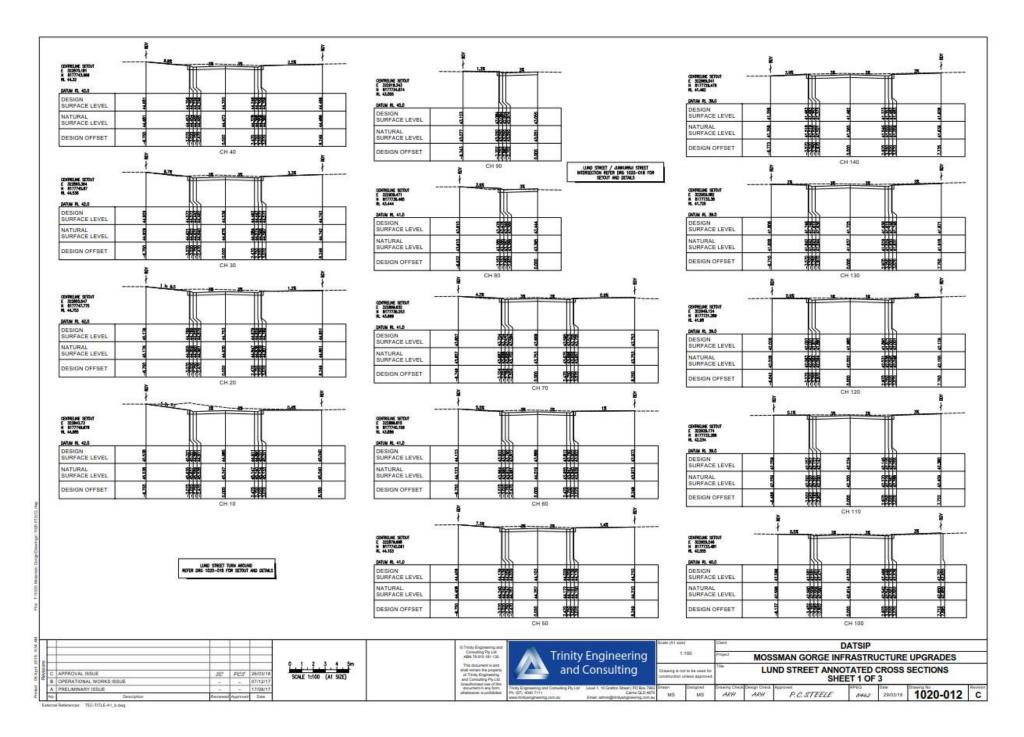




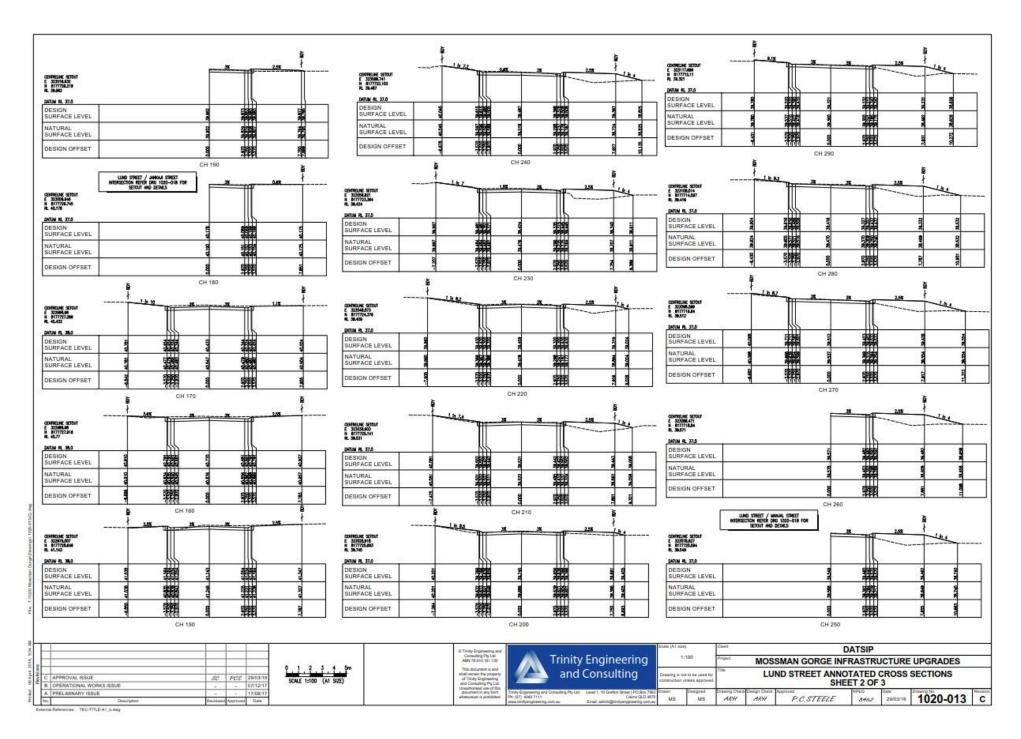
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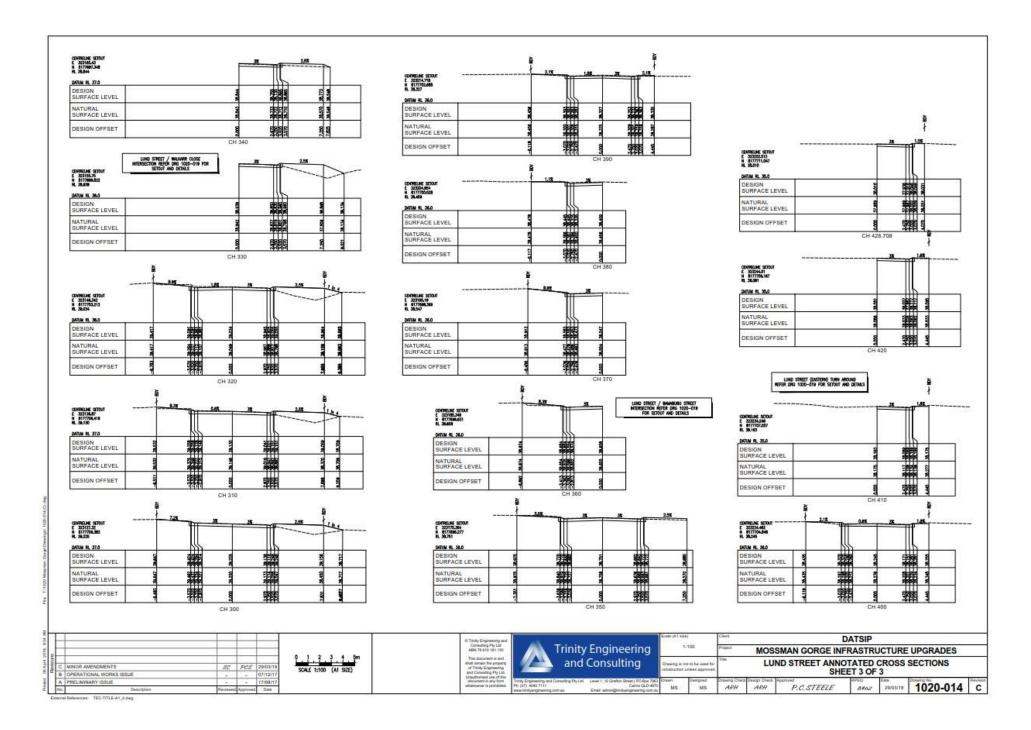


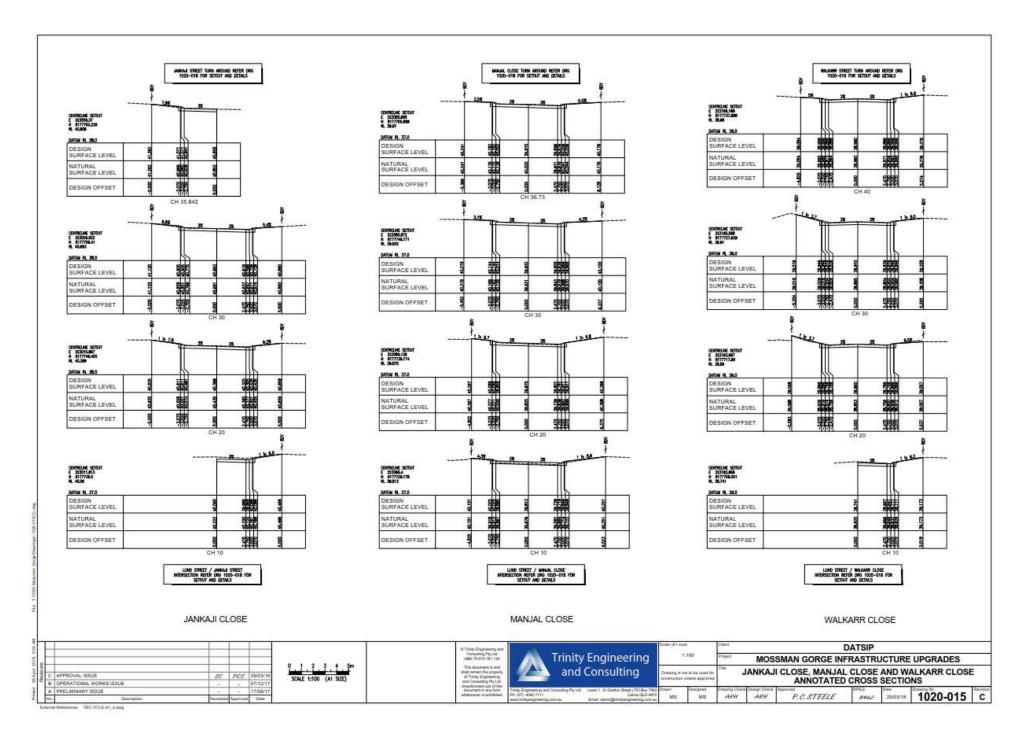


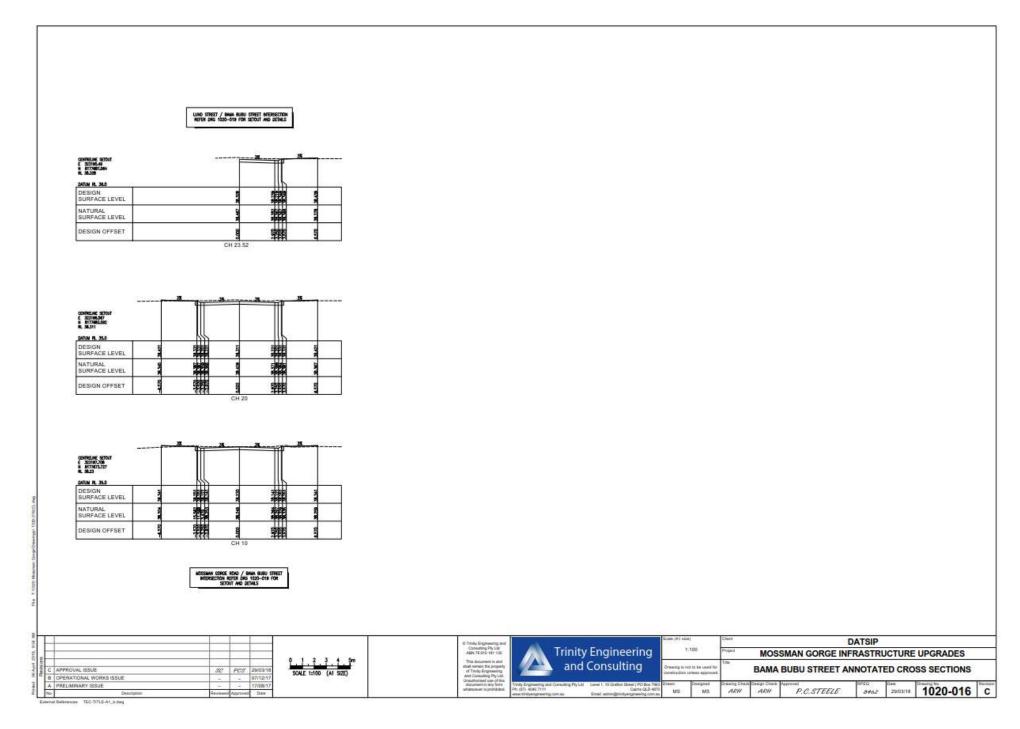


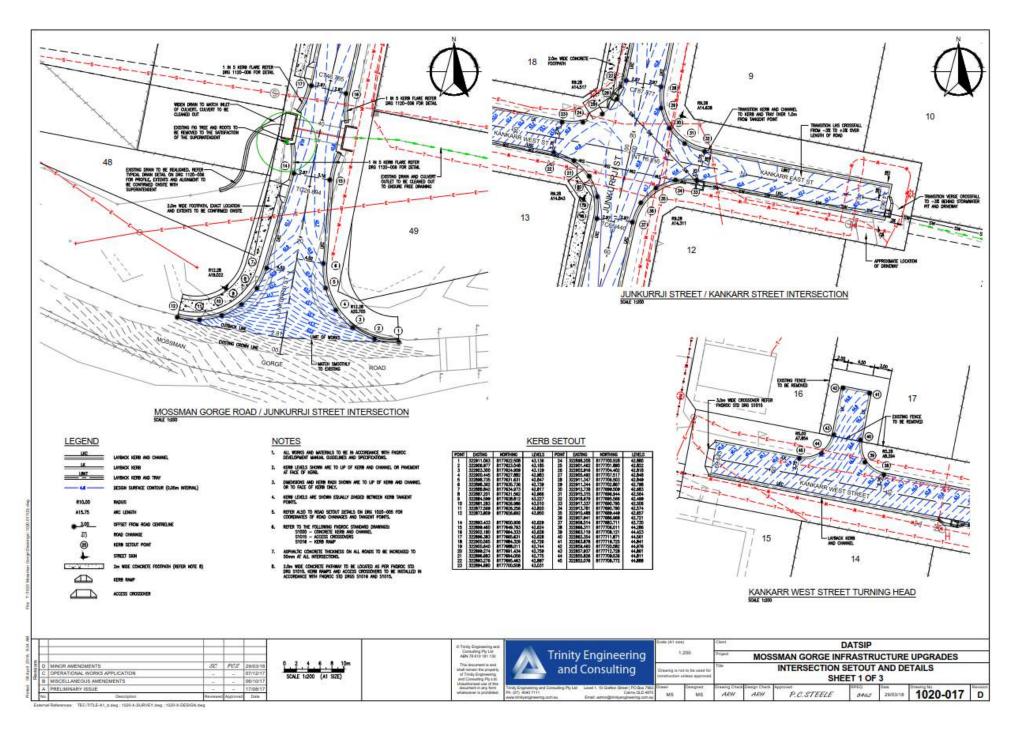
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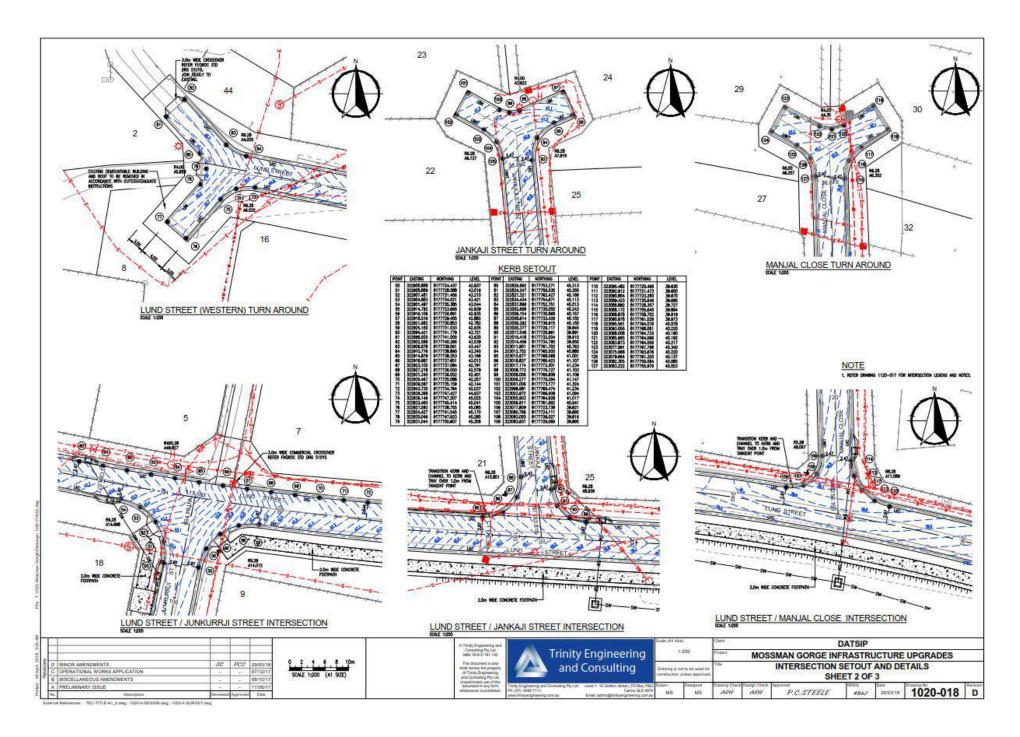


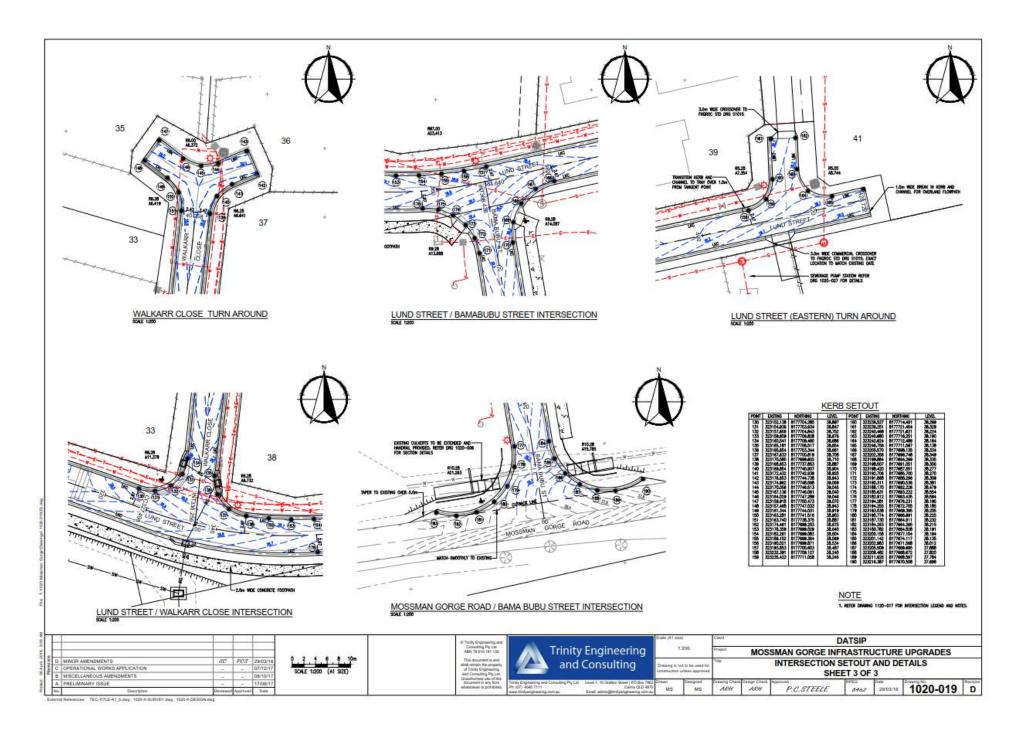


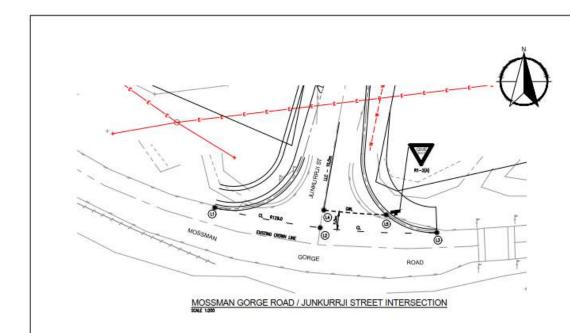


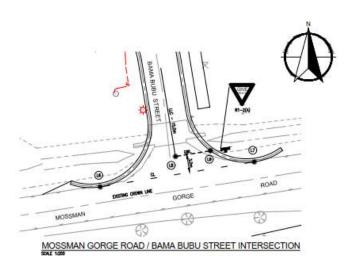












LINEMARKING SETOUT

PONT NO.	EASTING	HORTHING
L1	322873,790	8177626,696
L2	322801.479	8177623,335
L3	322911.063	8177622.508
1.4	322802.093	8177626.283
L5	322902.571	8177625,492
1.6	323185,790	8177664.397
1.7	323211.626	8177668,597
1.8	323196,412	8177669,496
1.0	323204,291	8177670,448

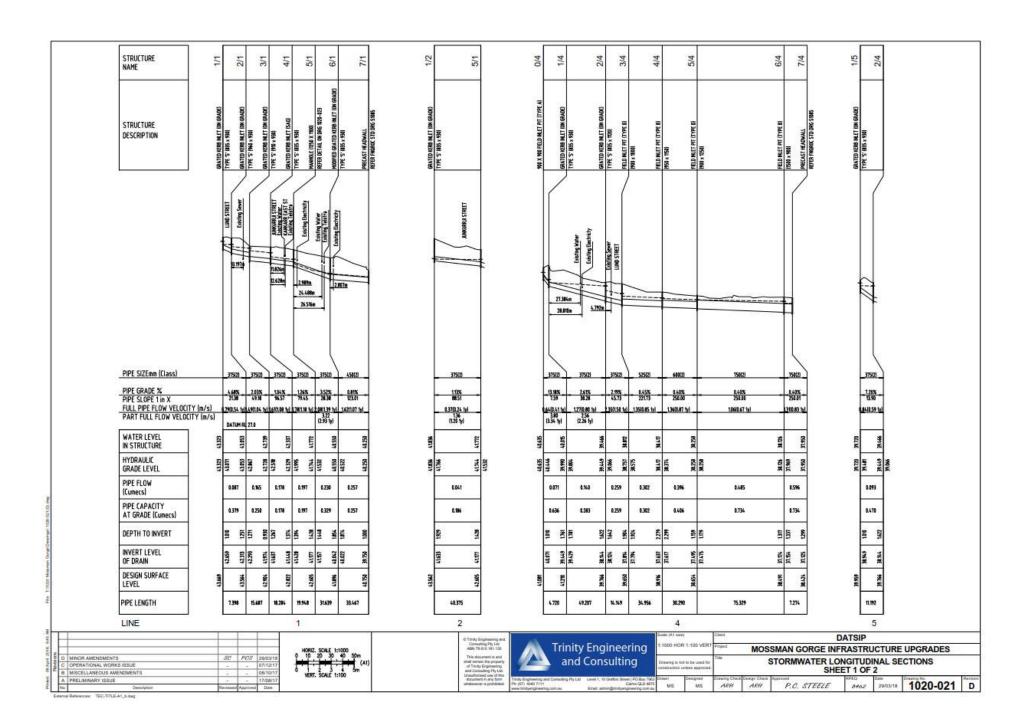
LINEMARKING DIMENSIONS TABLE

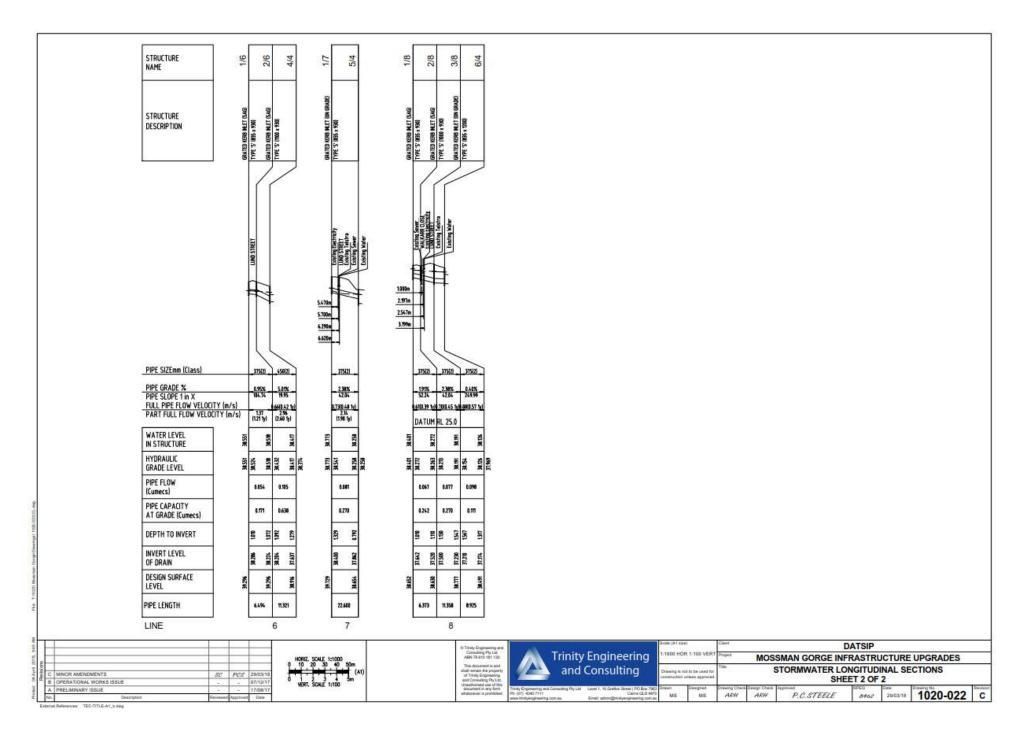
TYPE	DESCRIPTION	LENGTH (mm)	GAP (mm)	(mm)
a.	CONTINUITY LINE CIVE WAY LINE	1000 600	3000	200 300
——— шс	LAME LINE CONTINUOUS	-	-	80

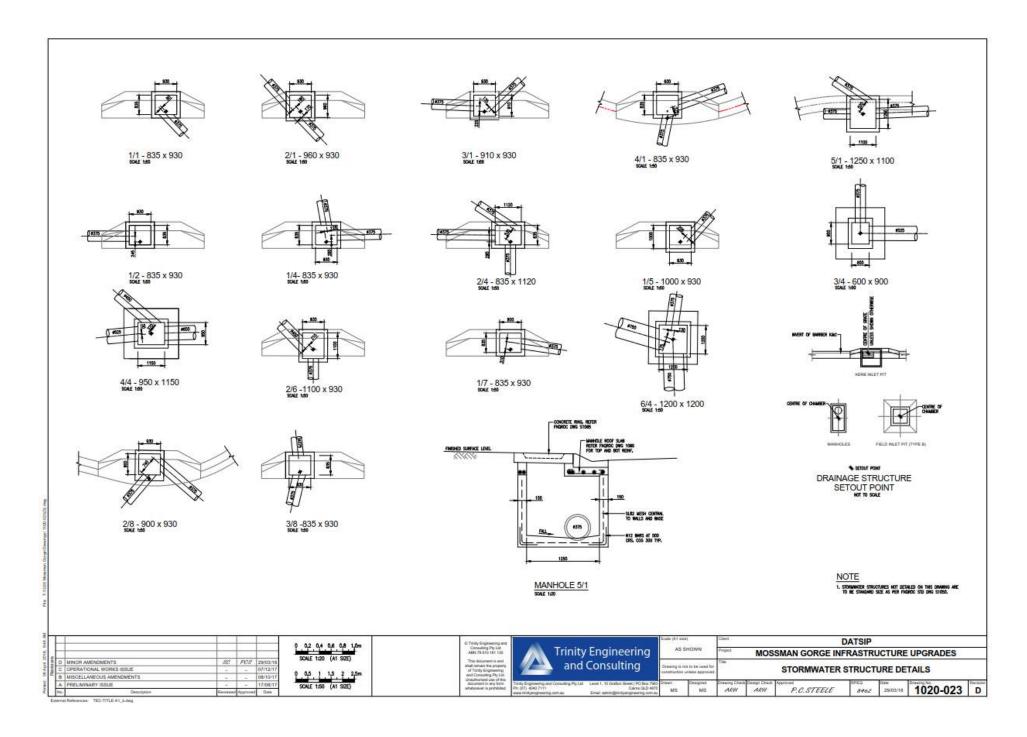
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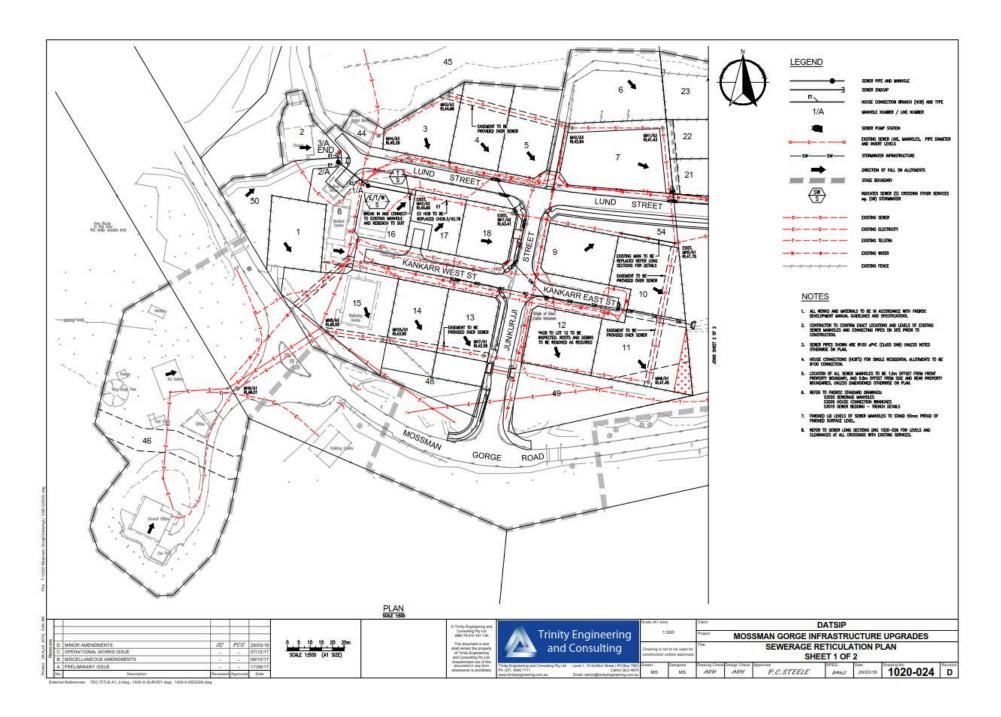
- DESIGNMENT MANUAL GUIDELINES AND SPECIFICATIONS.
- 2. LINEMARKING (WHITE PAINT) AND SIGNAGE TO BE IN ACCORDAN

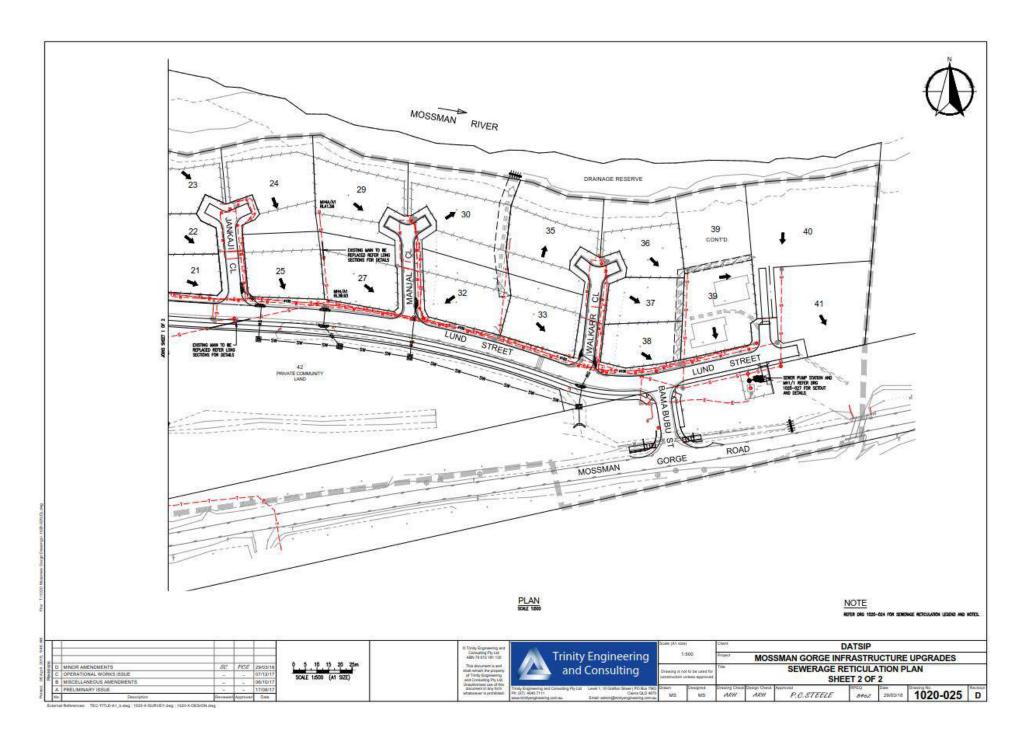
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Person	A	PRELININARY ISSUE Consciption	Raylawood	Approved	17/08/17 Date		document in any form whatsoever is prohibited.	Tricity Engineering and Comsisting Pty Ltd. Level 1, 10 Grafton 5 Ptr. (87) 4045 7111 www.tricityengineering.com.au Email: adminighted;	Street PO Box 7963 Calms QLD 4875 Lyangiresing con.au	Drawn De MS	MS MS	ARH	ARH	P.C.STEELE	8462	Date 29/03/18	1020-020	C



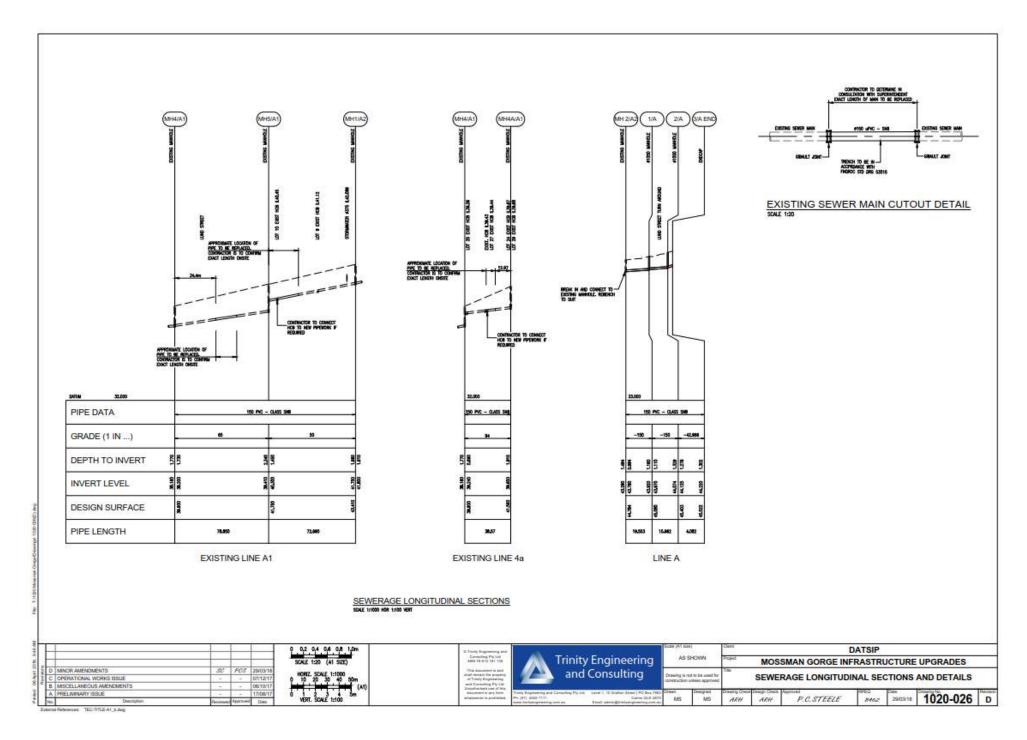


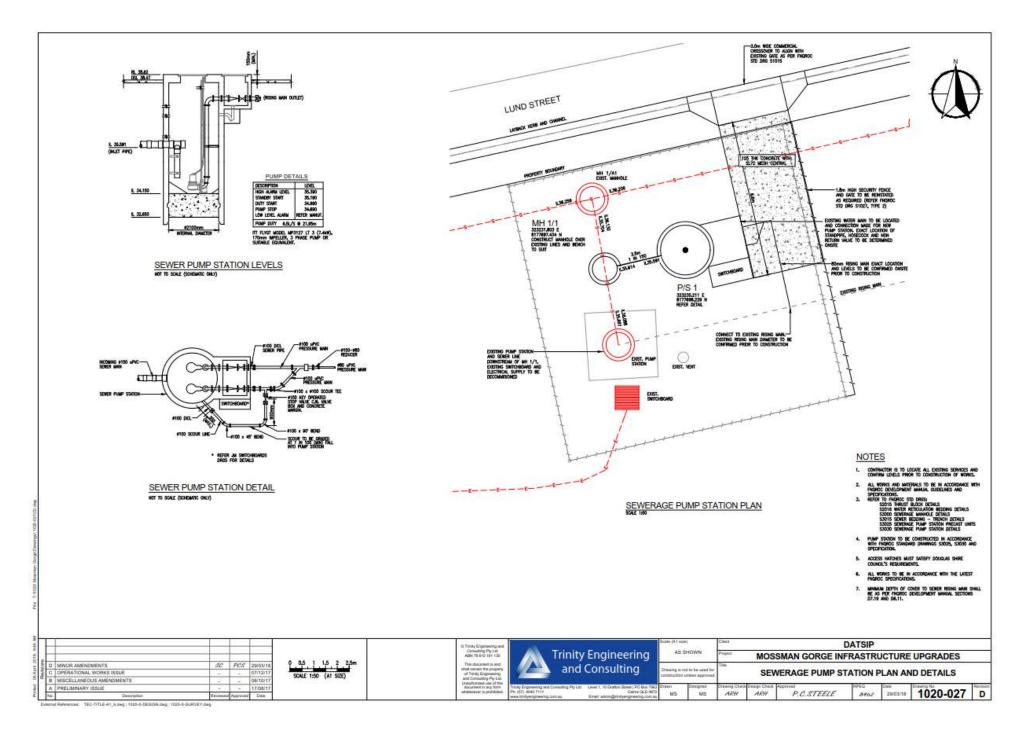


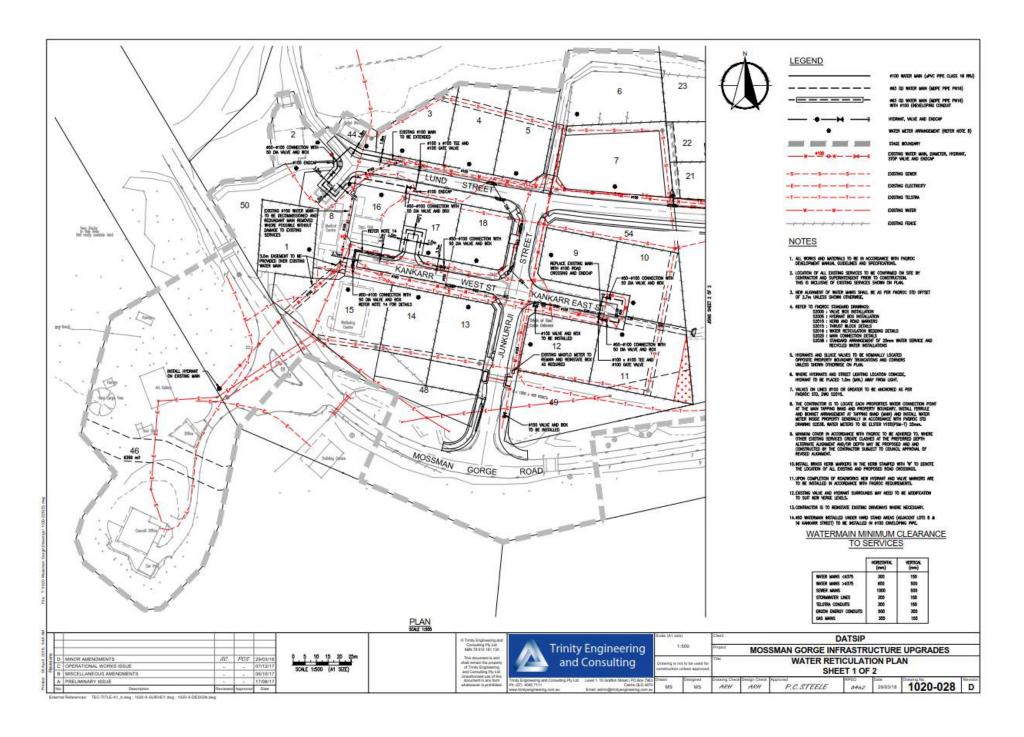


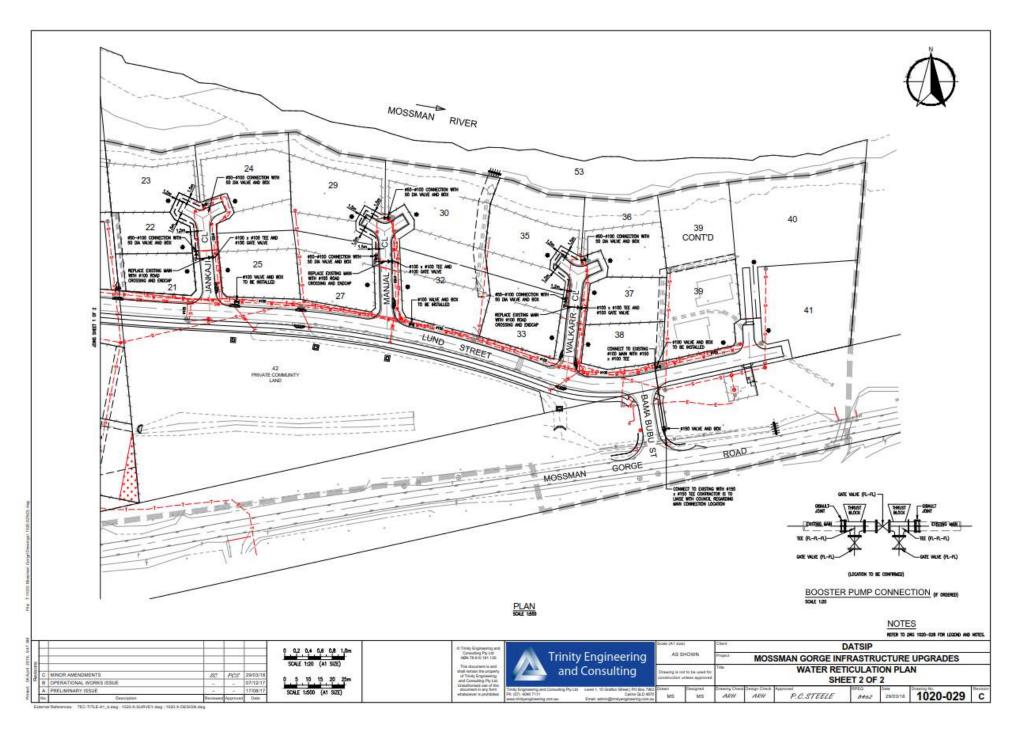


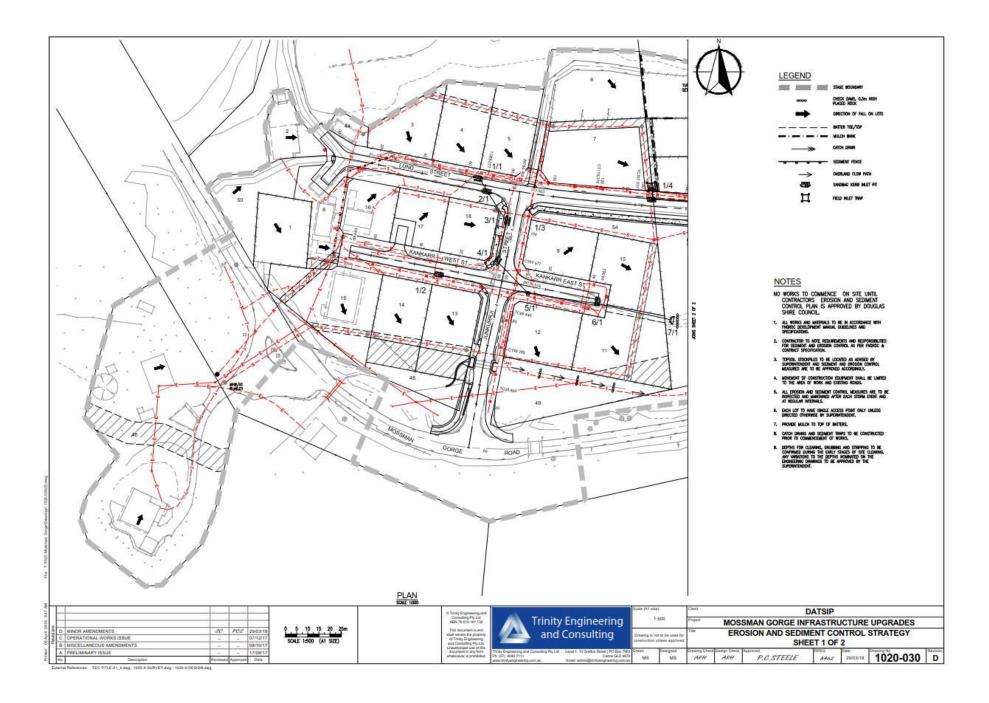
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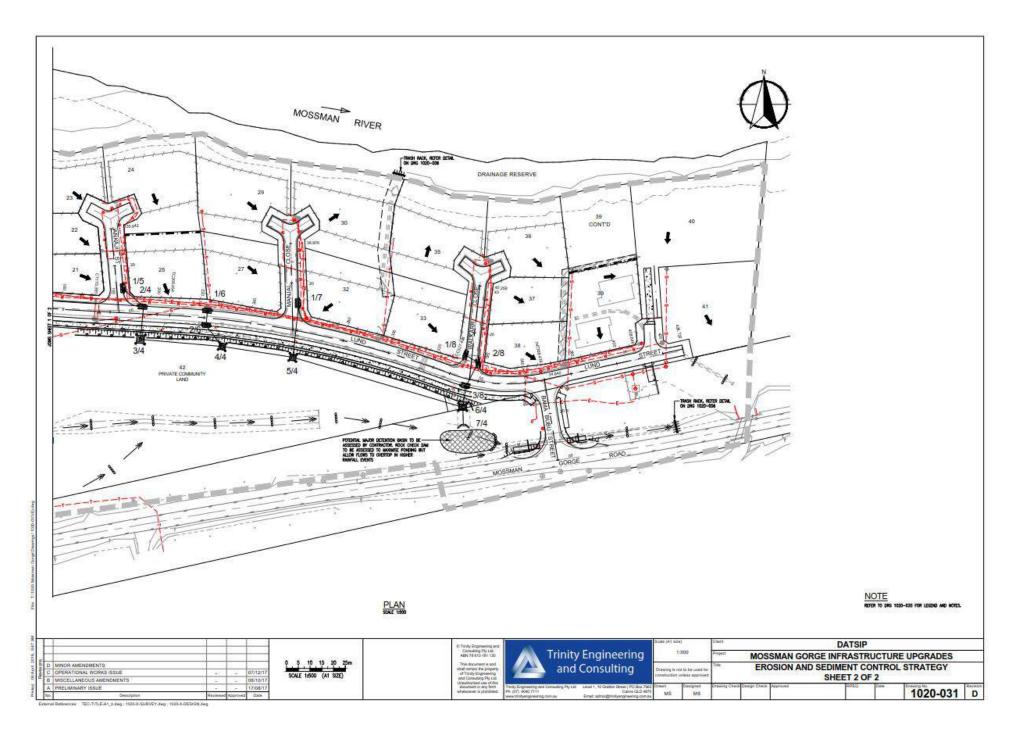












APPENDIX B: STANDARD CONDITIONS

General

- 1. The proposed works are permitted subject to any alterations:
 - a. found necessary by Chief Executive Officer at the time of examination of Engineering drawings or during construction of the works because of particular engineering requirements and.
 - b. to ensure the works comply in all respects with the requirements of the *FNQROC Development Manual* and good engineering practice; and
 - c. to comply with project specific conditions and the following standard conditions of approval.

All works must be carried out in accordance with the approved plans, conditions and specifications, to the requirements and satisfaction of the Chief Executive Officer.

- 2. The conditions of any Reconfiguration of Lot or Material Change of Use permits applicable to the subject lot or lots shall be complied with in conjunction with this development permit.
- Council's examination of the documents should not be taken to mean that the documents have been checked in detail and Council takes no responsibility for their accuracy. If during construction, inadequacies of the design are discovered, it is the responsibility of the Principal Consulting Engineer to resubmit amended plans to Council for approval and rectify works accordingly.
- 4. Notwithstanding any approval given to engineering documents, where a discrepancy occurs between these documents and Council's standards, then Council's standards shall apply. All works must be performed in accordance with Council standards and Local Laws and other statutory requirements.
- 5. If in fact there are errors, omissions or insufficient detail on the plans for the purpose of construction, these deficiencies shall be made good during construction and Council reserves the right to withhold approval of construction until such deficiencies are made good to its satisfaction.
- 6. Work and or Technical Documents identified within these Development Approval Conditions require Council approval prior to granting Early Plan Sealing or Plan Sealing of a Subdivision Plan or the issue of a Works Acceptance Certificate, whichever occurs first.

Timing of Effect

7. The conditions of this development permit must be effected prior to the approval and dating of the survey plan, except where specified otherwise in these conditions of approval, or at Council's discretion.

Easement Documentation

8. Easement documents are to be submitted to Council's solicitors for checking in accordance with the conditions of the Reconfiguration Development Permit. Contact Council for current nominated solicitors details.

Portable Long Service Leave Notification

 As per the QLeave – Building and Construction Industry Authority Guidelines, if the works are over \$150 000, Council must sight a copy of the receipted Portable Long Service Notification and Payment form prior to commencement of work.

Construction Security Bond

10. Lodgement of Construction Security Bond as per the *FNQROC Development Manual*, Section CP1.07, (ie, five (5) per cent of the value of the works) is required, prior to commencement of work. The bond shall be in favour of Council and in the format of cash or an unconditional bank guarantee, which must cover all aspects of the construction and have no termination date.

Third Party Agreement

11. The developer must obtain written agreement from third parties and/or Referral Agencies for any works proposed on adjacent properties. The agreement(s) must be provided prior to the associated works commencing on site. All agreements must be available for Council scrutiny, upon request.

Commencement of Works

12. Council is to receive written Notice of Intention to Commence Works and all matters relevant to the Pre-Start meeting are to be attended to in accordance with Section CP1.07, CP1.08 and Section CP1.09, of the *FNQROC Development Manual*.

Hours of Work

- 13. Work involving the operation of construction plant and equipment of any description, shall only be carried out on site during the following times:
 - a. 7:00 am to 6:00 pm, Monday to Friday;
 - b. 7:00 am to 1:00 pm, Saturdays; and
 - c. no work is permitted on Sundays or Public Holidays.

Any variations to the above working hours must be authorised by the Chief Executive Officer, prior to the commencement of such works.

Public Notification of the Works

- 14. The developer or the nominated representative must provide:
 - a. Public notification of the development in local newspapers in accordance with Section CP1.11 of the FNQROC Development Manual.
 - b. Signage identifying the location of the project, general allotment layout, contact numbers (including out-of-office hours emergency numbers) must be provided at all entrance points to the development. All signage must be appropriately positioned, prior to the commencement of any works on the site.

Site Inspections

15. Council requires a number of major inspections to be completed as Witness and Hold Points for Consulting Engineers and Council officers during the construction of the works. Inspections undertaken during construction shall be in accordance with Section CP1.16 (Inspection and Testing) of the *FNQROC Development Manual*. These Witness and Hold points are to be included in the contractors Inspection and Test Plan (ITP) and be made available for inspection, prior to the commencement of any works on the site.

Soil and Water Management

- 16. All works must be in accordance with Section CP1.13 and D5 of the *FNQROC Development Manual*, and must comply with the following:
 - a. A copy of the contractor's Erosion and Sediment Control (ESC) Plan is to be submitted to Council and endorsed by the Consulting Engineer, prior to commencement of any works. In particular, the ESC Plan must address the Institution of Engineers' Australia Guidelines for Soil Erosion and Sediment Control and the Environment Protection (Water) Policy and Clauses CP1.06, CP1.13 and D5.10 of Council's FNQROC Development Manual. The ESC Plan must be relevant to all phases of the construction and be updated where necessary as works progress.
 - b. Any dewatering activities will require approval from Council's Environmental Protection Unit, telephone number 07 4099 9475 and a valid permit obtained prior to commencement.
 - c. During the construction period, the Consulting Engineer shall randomly audit and inspect ESC measures for compliance with the Engineer endorsed contractor's ESC Plan, derived from the Engineer's ESC Strategy (As per *FNQROC Development Manual CP1* Appendix A).
 - d. It is the contractor's responsibility to ensure that the ESC Plan is updated and amended to reflect any changes in the construction methodology. All such amendments shall be approved by the Engineer and presented to Council.
 - e. The developer shall be held responsible for any rectification works required to clean up dust, pollutants and sediments that may leave the site as a result of construction activities.
 - f. The developer or their representative shall be responsible for communicating with third parties affected by any dust, pollutants or sediment leaving the site as a result of any construction activity that is associated with the project site.

Street Lighting

- 17. The provision of street lighting is to be in accordance with the *FNQROC Development Manual* D8 and designed to comply with the Road Lighting Standard AS/NZS 1158, a compliance certificate that has been certified by an appropriate Registered Professional Engineer of Queensland (RPEQ) must be provided to demonstrate the lighting design complies to the requirements of the Road Lighting Standard AS/NZS 1158. New street lighting is to be erected as a Rate 2 public lighting installation, Rate 1 will only be considered where an overhead electricity reticulation exists:
 - a. Lighting columns, luminaires and lamps are to be of a type specified in Ergon Energy's *Lighting Construction Manual*, unless approved otherwise by Council.
 - b. The applicable lighting category for roads associated with this project having a road hierarchy of residential access and above is identified in Table D8.1 of the *FNQROC Development Manual*.
 - c. Local Area Traffic Management (LATM) devices including roundabouts, must be provided with an illumination of not less than 3.5 Lux as specified in the Road Lighting Standard AS/NZS 1158.
 - d. Street lighting located adjacent to the development frontage must be located behind the kerb (usually a minimum of 820 mm from the invert of the kerb) and spaced to meet the required lighting category for the road.

Infrastructure Plans for Utility Services

18. Approved infrastructure plans for gas, electrical and telecommunications services must be endorsed by Council, prior to the commencement of associated works.

Landscaping General

- 19. Landscaping shall be provided in accordance with Part D9 and Part S8 of the *FNQROC Development Manual*, unless approved otherwise by Council.
- 20. The landscaping works must be constructed in accordance with the approved plans and conditions. The developer must seek approval in writing from the Council for any changes to the plan or the landscaping works on the site. This approval must be obtained prior to commencement of these works on site.
- 21. The landscape must be maintained in good order by the developer for at least three (3) months during the Works Acceptance period, and generally timed to coincide with the Final Works Acceptance Inspection, when all landscaping works must be in a condition suitable for Council to commence regular maintenance.

Trees

- 22. Any trees must be planted and staked in accordance with the *FNQROC Development Manual* drawing S4210, with root barriers installed such that they are just visible at the finished surface level. Note that where footpaths are to be provided, a root barrier must also be provided between the tree and the path. Root barriers must be installed and appropriate topsoil, level of compaction and drainage provided, as specified by the manufacturer.
- 23. Street tree planting locations must be in compliance with *FNQROC Development Manual* D9.07.6 'Alignment and placement of Street Trees'. Trees shall be positioned a minimum of:
 - a. 7.5 metres from streetlights;
 - b. two (2) metres from the inlet or outlet of stormwater pipes;
 - c, three (3) metres from any driveways;
 - d. ten (10) metres back from the apex of both boundaries of a corner lot:
 - e. 0.8 metres one (1) metres from the back of kerbs.
- 24. All trees must be watered directly after planting and prior to laying mulch. The mulch must be left clear of the trunk and be laid in accordance with *FNQROC Development Manual* drawing S4210 and S8.14, at a radius of 0.5 metre around the base of the tree and out to the back of kerb.
- 25. All trees must be of good vigour and health and must not be root-bound at the time of planting. They should be approximately 1.5 metres two (2) metres tall with well-established root and branch formation. Trees should have a clear dominant central leader.
- 26. A joint site inspection is to be held with Council officers and developer's representative to assess the general condition of any existing trees and shrubs within six (6) metres of any property boundary abutting the road reserve, or other Council land. If any dead, dying or dangerous trees are identified during the meeting, with the landowner's consent, they are to be removed to the satisfaction of Council officers, prior to the sealing of plans for the associated lot.
- 27. Any trees identified on drawings to be retained, are to be protected in accordance with approved plans. This must include, but is not limited to, the erection and continued maintenance of suitable

physical barrier(s) placed around the tree to protect the tree and the root system. Additional protection of tree trunks by the fixing of timber planks using wire loops is also required unless approved otherwise by Council. Any damage caused to nominated trees as a result of construction activity, will require inspection by Council and will require a specified number of suitable replacements trees of suitable maturity to be provided to replace the loss in amenity.

Verges

- 28. All verges are to be covered full-width with topsoil (AS 4419/Soils for Landscaping and Garden Use) to a depth of not less than 40 mm, lightly compacted and grassed in accordance with Council's Guidelines and Specifications.
- 29. Any island beds or any shrub beds must have a permanent irrigation system installed, which must be connected to the Douglas Water Network. An Application for a Water Service Connection must be presented to Douglas Water & Waste to facilitate the connection, and must include the installation of a flow meter and associated valves.
- 30. All water reticulation, including permanent irrigation systems, are to be identified in as-constructed plans which must be submitted to Council for approval prior to the Works Acceptance (On Maintenance) meeting for landscaping.

Structures and Retaining Walls

31. Separate building certification and/or structural certification is required for any works to alter existing structures, provide new structures or construct retaining walls that are over 900 mm high. Certification by a suitably qualified engineer must be provided, prior to opening the work site to the public.

The Location of Stormwater Quality Interception Devices (SQIDs)

32. Council must approve the location of any SQIDs prior to installation. They shall be positioned to allow for economic and efficient maintenance operations, and will require a reinforced concrete hard standing area to be provided from the edge of the carriageway to the SQID location. Vehicular access from the public road reserve to the SQID must remain unrestricted.

Sewer and Water

- 33. All water and sewerage works must be in accordance with Sections D6 and D7 of the *FNQROC Development Manual*, and must comply with the following:
 - a. Douglas Shire Council requires a minimum of five (5) working days notice of intention to commence water and sewerage related works. The notice shall be given to the Senior Plumbing Inspector at Douglas Shire Council either in writing, by telephone 07 4099 9479, fax 07 4098 2902 or email to enquiries@douglas.qld.gov.au prior to the commencement of works.
 - b. The developer shall be responsible for confirming the location of all existing sewer, water and utility service infrastructure prior to the commencement of works on site. Any permits necessary to alter/interfere with such services must be obtained prior to the commencement of work and be available for Council inspection if required.
 - c. Any works over or within the zone of influence of Council's existing water and sewerage infrastructure must be approved by Douglas Shire Council prior to the commencement of the proposed works. Unless otherwise approved in writing, existing infrastructure impacted by the development shall be subject to the maintenance period provisions contained in this Decision Notice.

Construction works shall include any works that may impact on existing infrastructure such as, but not limited to, mobilisation of heavy earthmoving equipment, stripping and grubbing, site filling, stockpiling of materials and installation of erosion and sediment control measures.

d. All testing and acceptance of water and sewerage works shall be in accordance with CP1 Construction Procedures of the *FNQROC Development Manual*. Works are to be certified as acceptable by Douglas Water & Waste, and any operating manuals etc be provided to Council, prior to making an application for the acceptance of the works.

Sewer

- 34. Douglas Water & Waste must be contacted to perform any direct connection to live sewer mains. Unless otherwise approved in writing, separate applications for approval on the prescribed forms shall be made to Douglas Water & Waste for each connection together with payment of the relevant fee. All connections are to be provided subject to the terms and conditions of Douglas Shire Council's 'Application for Plumbing Works'.
 - a. Amended drawings in accordance with these conditions must be approved prior to the prestart meeting.
 - b. The Inspection and Test Plan (ITP) must be approved prior to the pre-start meeting. At project completion the completed and validated ITP must be submitted and approved prior to the issue of a Works Acceptance Certificate.
 - c. Where retaining walls are located within the zone of influence of a sewer the footings must be 1000 mm clear of the sewer and designed in accordance with the *Queensland Development Code*. Full design details and structural certification must be approved prior to commencement of works.
 - d. Minimum clearances between sewer mains and other services must be in accordance with the *Sewerage Code of Australia*. Clearances must be included on the long-section drawing.
 - e. Where a manhole is located in a batter, a flat area of 1.5 metres radius from the centre of the manhole must be provided. Where the manhole is located along a side or rear boundary and is on the 0.8 metre standard alignment then the flat area must be on at least three (3) sides.
 - f. Where an easement is required the property connection branch must be extended at least one (1) metre from the easement boundary.
 - g. House drains are to extend one (1) metre past the end of the driveway on hatchet blocks and 1.5 metres beyond the top of batters. An I.O. is to be provided at the downstream end of the house drain within one (1) metre of the boundary to delineate the end of the property connection branch.
 - h. As-constructed sewerage drawings must be approved prior to granting of Early Plan Sealing or Issue of a Works Acceptance Certificate whichever occurs first. The as-constructed submission is to include the 'Statement of Compliance As-constructed Documentation' and must be the final issue.

Water

35. Douglas Shire Council must be contacted to perform any direct connection to live water mains whether being as a permanent connection, a connection for irrigation purposes or for construction water. Unless otherwise approved in writing, separate applications on the prescribed forms shall be made to Douglas Shire Council for connections, together with payment of the relevant fee. All

connections are to be provided subject to the terms and conditions of Douglas Shire Council's 'Application for a Water Service Connection'.

- a. Amended drawings in accordance with these conditions must be approved prior to the prestart meeting.
- b. The Inspection and Test Plan (ITP) must be approved prior to the pre-start meeting. At project completion the completed and validated ITP must be submitted and approved prior to the issue of a Works Acceptance Certificate.
- c. Minimum clearances between water mains and other services must be in accordance with the *Water Supply Code of Australia* in particular the minimum clearance between water mains and sewer mains must be 500 mm with the sewer under the water main.
- d. As-constructed water drawings must be approved prior to Issue of a Works Acceptance Certificate. The as-constructed submission is to include the 'Statement of Compliance Asconstructed Documentation' and must be the final issue.

Roads and Footpaths

36. All works are to be designed and constructed in accordance with AS 1428.1-2001: 'Design for access and mobility' – General requirements for access – New building work, and associated standard AS/NZS 1428.4 2002, 'Design for Access and Mobility' – Tactile Indicators. The design is required to provide equal access for people with disability and include the provision of suitable ramps and landing areas and the installation of Tactile Ground Surface Indicators (TGSIs) where required.

Cultural Heritage

37. The Aboriginal Cultural Heritage Act 2003 (the Act) seeks to protect artefacts and cultural sites that are of significance to Aboriginal people. The Act requires anyone carrying out an activity to exercise a Duty of Care. Guidelines have been produced to enable assessment of sites under the Act. These are available from Department of Environment Heritage Protection and can be downloaded from their website at www.ehp.qld.gov.au. The work identified in the project documentation is likely to require assessment of the site under the Act.