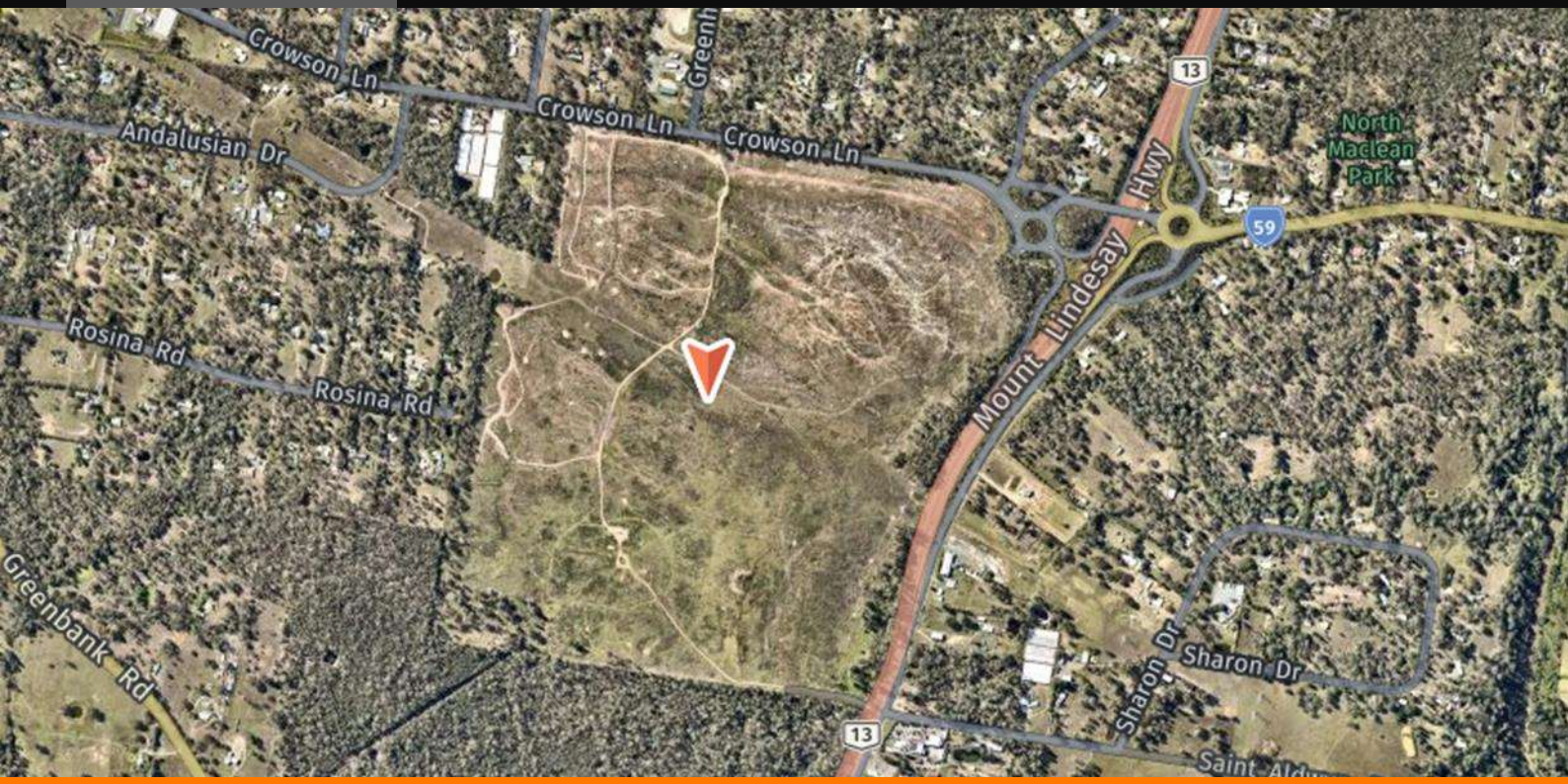
PLANS AND DOCUMENTS
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2023/1466
Date: 11 October 2024
Queensland Government

COSTIN ROE CONSULTING



ENGINEERING SERVICES REPORT

PROPOSED DEVELOPMENT

PROPOSED LOT 102

FLAGSTONE LOGISTICS ESTATE

Prepared for:

Charter Hall Holdings Pty Ltd
GPO Box 2704
Sydney NSW 2001

Prepared by:

Costin Roe Consulting
Level 4, 8 Windmill Street
MILLERS POINT NSW 2000

DOCUMENT VERIFICATION	
Project Title	PROPOSED LOT 102, FLAGSTONE LOGISTICS ESTATE
Document Title	Engineering Services Report
Project No.	Co14547.03
Description	Engineering Services Report for Proposed Industrial Development
Client Contact	Ms Erin Dyer, Charter Hall Holdings Pty Ltd

	Name	Signature
Prepared by	Ali Haghjoo	
Checked by	Xavier Cure	
Issued by	Xavier Cure RPEQ 23822	
File Name	CO14547.03-02g.rpt	

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1 INTRODUCTION AND SCOPE

1.1 Introduction

This Engineering Services Report (ESR) has been prepared on behalf of CH Hydrangea Pty Ltd (Applicant) in support of a development application over land at 4499-4651 Mount Lindesay Highway, North MacLean QLD 4280 and described as Lot 39 on SP258739 (site). This Priority Development Area (PDA) Development Application seeks approval from the Minister of Economic Development Queensland for the following aspects of development:

- Development Permit for Reconfiguring a Lot (ROL) - 1 into 6 Lots plus access easement; and
- Development Permit for a Material Change of Use (MCU) for Warehouse (Distribution Centre)

This Engineering Services Report (ESR) has also been prepared on behalf of the Applicant to support the proposed material change of use aspect of development over part of the site (Proposed Lot 102).

The site is located on the proposed Lot 102 at 4499-4651 Mount Lindesay Hwy, North MacLean QLD 4280. The site is located on the corner of Crowson Lane and Mount Lindesay Highway within the Greater Flagstone EDQ Priority Development Area (PDA) and Logan City Council (LLC) Local Government Area (LGA). The proposed development is for the construction of a warehouse and associated hardstand area, office area, and car parking.

Works involve construction of a single level warehouse building with ancillary office space, truck circulation and loading/unloading areas and associated car parking, and stormwater management for the site.

This ESR provides a summary of how the site will be serviced by the necessary infrastructure in accordance with Logan City Council Requirements. This includes a summary of key services including drainage discharge, sewer discharge, supply of water, power and telecommunications.

1.2 Consultation

Considerations in accordance with requirements by affected stakeholders has been made in relation to the development during the assessment period. The Minister of Economic Development Queensland has included a *Further Issues Letter* for this development.

Table 1.1 provides a summary of response to the Further Issues Letter which relates to flooding and stormwater.

Table 1.1. Key Consideration from Further Issues Letter

Item No	Consideration	How it is Addressed	Location within this Report
8a	Resubmit the engineering services report (including drawings) certified by a suitably qualified RPEQ.	Refer to **Appendix A** for Costin Roe drawings certified by an RPEQ. Report has also been certified by an RPEQ.	Refer to **Appendix A.**

8b	Provide details (layout and sections) of retaining wall, including stormwater flows around the Powerlink tower certified by an RPEQ.	Retaining walls have been proposed as part of development application works. Refer to Drawing **CO14547.03-DA610** for location and details of retaining walls.	Refer to **Appendix A** for drawings by Costin Roe.
8c	Provide additional details on earthworks drawings within the ESR to include cross sections, levels and proposed grading	A high-level earthworks assessment was completed for the proposed development. Earthworks modelling based on a warehouse FFL of RL 27.30 mAHD. Final levels would be subject to +/- 0.5m variation in allowances for geotechnical condition, topsoil allowances, bulking of material and provision of future building spoil. The final building levels. Refer to Drawing **CO14547.03-DA300** for cut-to-fill levels throughout the site.	Refer to **Appendix A** for earthwork drawings by Costin Roe.

2 SITE CHARACTERISTICS

2.1 Location

The proposed development is located on proposed Lot 102 at 4499-4651 Mount Lindesay Hwy, North MacLean QLD 4280 in the suburb of North Maclean as shown in **Figure 2.1**.

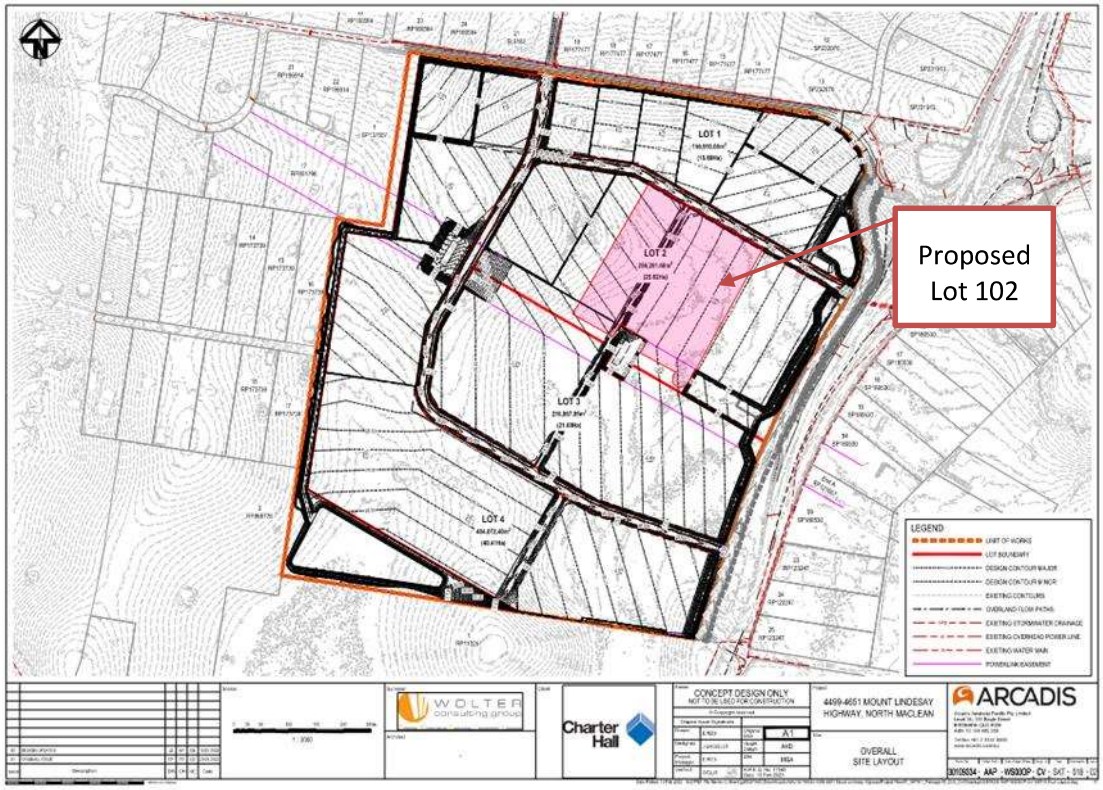


Figure 2.1. Locality Map (Source: Arcadis, August 2023)

2.2 Proposed Development

The proposed development is for a single level warehouse, along with associated truck loading and circulation hardstands, ancillary office (two storeys) and car parking areas. The indicative layout for the development produced by Watson Young has been included in **Figure 2.2**.

The proposed site comprises parking area and office spaces along the northern portion of the site. Hardstand for truck loading/unloading are proposed to the eastern and western portion of the site. Truck circulation will also be provided through the southern area of the site. Access into the site will be provided via crossovers proposed along the new Estate Road to the north as shown in the below figure.

Civil works will include minor earthworks to suit the proposed building layout and external falls, stormwater drainage, retaining walls and pavements.

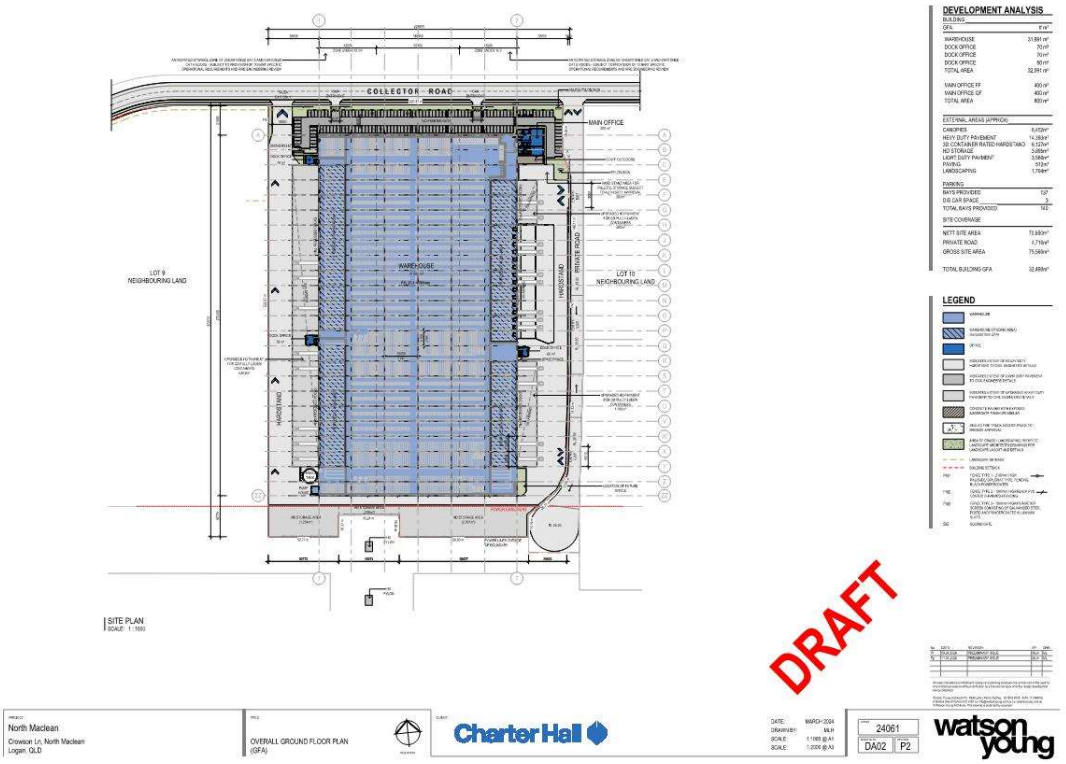


Figure 2.2. Proposed Development Layout

2.3 Topography & Description

The proposed site area is approximately 7.56Ha and is currently undeveloped, however, the site is undergoing cut to fill earthworks as part of the infrastructure masterplan approved under DEV2018/961/4.

The proposed development for the purposes of this MCU and ROL consists of works on proposed Lot 102 only. Reference should be made to bulk earthworks levels drawings prepared by Arcadis and approved under DEV2018/961/4 dated 2 August 2023 (ref: 30109334-AAP-WS00OP-CV-DRG).

The highest level on the site after bulk earthworks proposed by Arcadis will be RL 27.9m A.H.D at the South-western corner of the site and the lowest level is RL 25.0m A.H.D at the eastern corner of the site.

A Powerlink easement is located along the southern boundary of the site and an overhead powerline runs along the southern boundary.

2.4 Easements

A Powerlink easement is located within southern portion of the site. It is a requirement from Powerlink that the easement has unrestricted 24-hour access for 4WD vehicles. Provision for an access road has therefore been included in the proposed development along the eastern boundary of the site for personnel access. Refer to architectural drawings by **Watson Young** for further details for the site layout plan.

3 INFRASTRUCTURE

3.1 Stormwater Discharge

Stormwater drainage for the proposed development is to be provided in accordance with the Logan City Council City Plan 2014.

A *Site Based Stormwater Management Plan* (SBSMP) has been prepared for the application by Costin Roe Consulting – refer separate report **CO14547.03-01g.rpt** and associated drawings for details.

Specific drainage elements and description of the drainage system as included in the Costin Roe Consulting SBSMP are as follows:

- The proposed stormwater drainage system for the development will comprise a minor and major system to safely and efficiently convey collected stormwater run-off from the development as described in *SBSMP Section 2.5* and shown on drawing **Co14547.03-DA400**;
- The proposed development intends to discharge minor flows to proposed channel (proposed Lot 901) through an OSD tank on Southeast of the site. A separate OSD has been proposed for the access road along the eastern boundary which also discharges to the open channel. An existing manhole connection F1/61 (Refer to FLAGSTONE LOGISTICS ESTATE – STAGE 1 by Arcadis, Drawing No: 30109334-aap-p301op-CV-DRG-0206) is to be used to discharge minor flows to the channel. The approximate 1% AEP flood level at the discharge location is RL 24.58 mAHD.
- The major flows will be discharged to proposed road drainage network (Estate Road) via an existing manhole connection F1/75 (Refer to FLAGSTONE LOGISTICS ESTATE – STAGE 1 by Arcadis, Drawing No: 30109334-aap-p301op-CV-DRG-0201).
- The system is designed in accordance with the requirements of Chapter 2 of *the DRAFT Best Practice Management Guidelines – Urban Stormwater (DERM 2009)* for Southeast Queensland as referenced in Section 3 of the SBSMP report;
- Pre-treatment of surface water for the site will be provided using pit inserts to all surface inlet pits and roofwater collection pits. This will remove gross pollutants from the system and prevent the overloading of the tertiary treatment system.
- Tertiary treatment of the site will be provided via filtration cartridges within the stormwater tank chamber located at the east of the site at the stormwater discharge locations. *SBSWMP Section 5* provides MUSIC modelling relating to the site.

Refer to Costin Roe Consulting *SBSMP Co14547.03-01g.rpt* for further discussion relating to stormwater management.

3.2 Sewer Reticulation

Sewer reticulation mains are proposed as part of the internal civil works. Refer to drawings (**REF. 30109334-AAP-P301OP-CV-DRG-0522**) by **Arcadis** (dated 19/02/24) for details. A DN150 sewer main has been proposed along the new estate road north of the Site. Sewer servicing for the site is proposed to be via connection into sewer manholes north of the site, which discharges via the proposed sewer reticulation main along the estate road and into a proposed sewer pump station approximately 200m northwest of the site. It is noted that the proposed infrastructure design is preliminary and is subject to amendments at this time of writing.

The proposed sewer mains and connection points are shown in **Figure 3.1** and **Appendix B**.

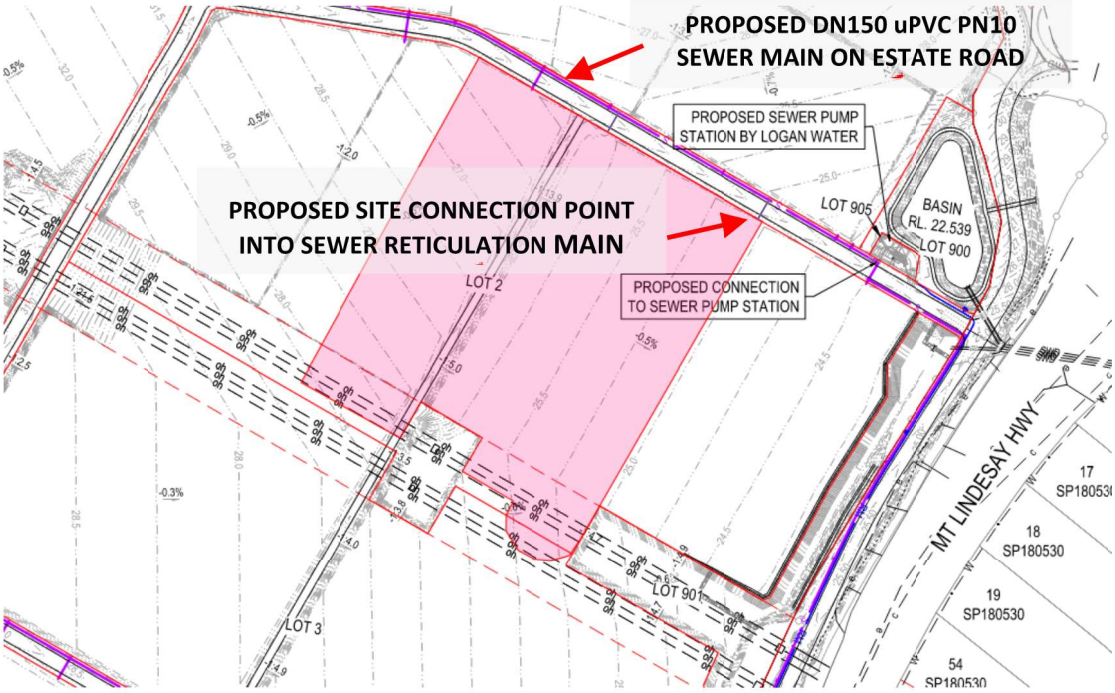


Figure 3.1. Proposed Sewer Reticulation Main Layout Plan (Source: Arcadis)

3.3 Water Supply Reticulation

There is no existing water services supply currently on site. Water reticulation mains are proposed as part of the internal civil works. A DN150 reticulation water main has been proposed along the estate road north of the site. It is noted that the proposed infrastructure design is preliminary and is subject to amendments at this time of writing.

The overall plan by Arcadis (Approval no: DEV2018/961/8) shows that internal civil works will include two connections – one to the existing watermain on Crowson Lane and the other to the existing watermain on the east side of Mount Lindesay Highway.

Figure 3.2 shows the extent of the proposed DN150 Water main on the northern boundary of the site. (Refer to **Appendix B** for more details)

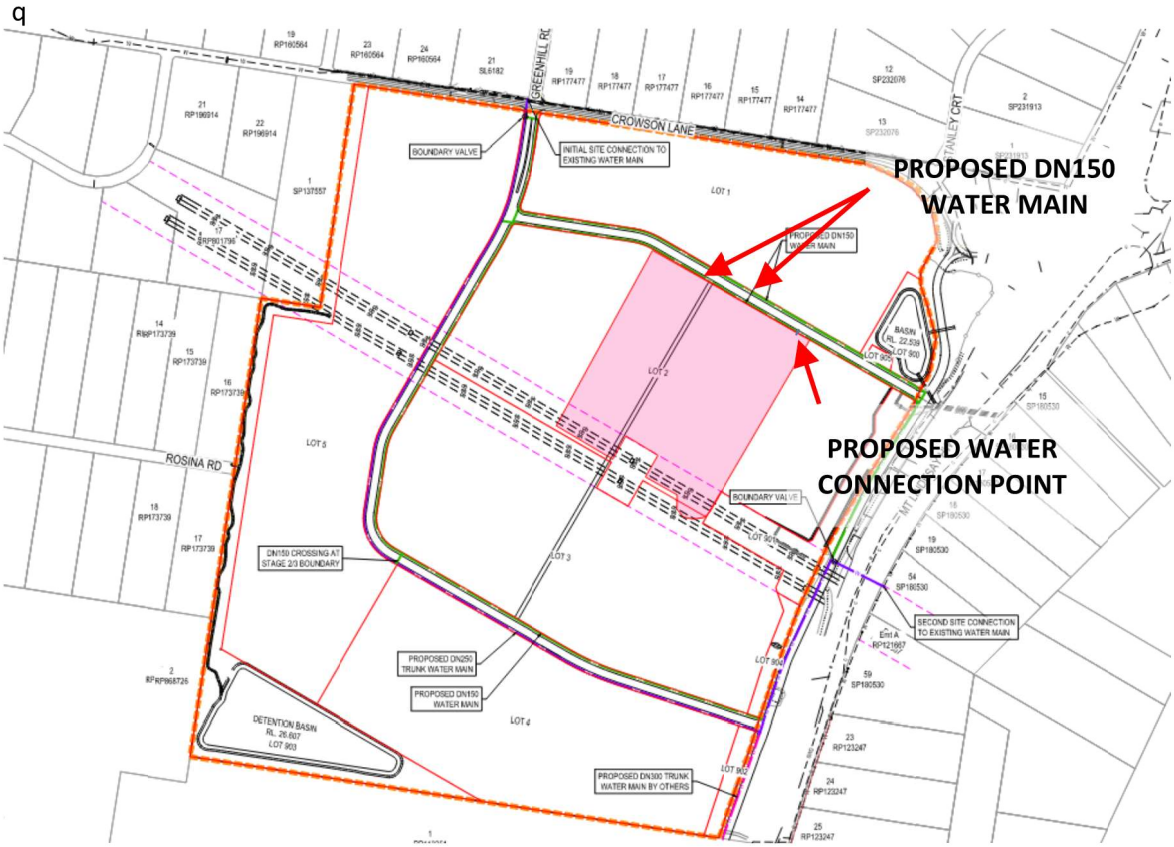


Figure 3.2. Proposed Water Main Layout Plan (Source: Arcadis)

3.4 Electricity & Communications

3.4.1 Energex

Existing underground electrical service are available along MT Lindsay Highway and Crowson Lane.

3.4.2 Telstra

The current site and adjacent rural residential areas are serviced by existing Telstra lines. The Telstra service to the proposed development will be available from the existing service.

3.4.3 Optus

There are underground Fibre Optic Telecommunications cables along MT Lindsay Highway to the east.

Electrical and NBN infrastructure will be installed within the road network proposed as part of the internal civil works. Refer to **Appendix C** for the North Maclean context plans and **Appendix D** for DBYD details.

4 CONCLUSION

This ESR has been prepared in support of a MCU & ROL for the proposed Lot 102 facility in North Maclean.

We have reviewed key engineering and infrastructure requirements for the site. This review confirms that adequate provision for services is available for the development.

The stormwater lawful discharge point for proposed Lot 102 will be via two existing manholes connections on south east (F1-61 for Minor Flows) and north east (F1-75 stub for Major flows) of the site as confirmed in the Site Based Stormwater Management Plan by Costin Roe Consulting. Refer to separate report by Costin Roe Consulting (ref: **CO14547.03-01g.rpt**).

Sewer servicing will be via connection into proposed manholes connecting into a DN150 reticulation sewer main along the proposed estate road fronting the proposed development site. Water servicing will be via connection into a proposed DN150 water main along the new estate road.

Final details regarding stormwater, sewer, water supply and other services can be addressed as part of detail design for the site.

5 REFERENCES

Australian Standards, "AS 3500.3.2003, Plumbing and drainage, Part 3: Stormwater Drainage"

Logan Planning Scheme (2015), Logan City Council

The Queensland State Planning Policy (SPP 2017),

Healthy Waterways Partnership's Water by Design MUSIC Modelling Guidelines – Consultation Draft 2018.

The Queensland Urban Drainage Manual (QUDM)

Economic Development Queensland (EDQ) PDA guidelines

Healthy Waterways (2010), "MUSIC Modelling Guidelines V1.0 (South East Queensland)"

Healthy Waterways (2010), "Deemed to Comply Solutions – Stormwater Quality Management (South East Queensland)"

Healthy Waterways (2006), "Water Sensitive Design Technical Design Guidelines for South East Queensland"

Institution of Engineers Australia, "Australian Rainfall & Runoff, 1988"

Landcom, "Managing Urban Stormwater: Soils and Construction, Volume 1, 4th Edition, March 2004"

Natural Resources and Water, Queensland Government, "Queensland Urban Drainage Manual, 2008"

APPENDIX A

COSTIN ROE CONSULTING PTY LTD DRAWINGS

PROPOSED LOT 102, FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
CIVIL DESIGN DEVELOPMENT APPLICATION

DRAWING LIST

DRAWING NO.	DRAWING TITLE
C014547.03-DA100	DRAWING LIST AND GENERAL NOTES
C014547.03-DA200	EROSION & SEDIMENT CONTROL PLAN
C014547.03-DA250	EROSION & SEDIMENT CONTROL DETAILS SHEET 1
C014547.03-DA251	EROSION & SEDIMENT CONTROL DETAILS SHEET 2
C014547.03-DA300	BULK EARTHWORKS PLAN
C014547.03-DA351	BULK EARTHWORKS SECTIONS
C014547.03-DA400	STORMWATER DRAINAGE PLAN
C014547.03-DA450	STORMWATER DRAINAGE DETAILS SHEET 1
C014547.03-DA451	STORMWATER DRAINAGE DETAILS SHEET 2
C014547.03-DA500	FINISHED LEVELS PLAN
C014547.03-DA551	POWERLINK OVERHEAD POWERLINE SECTION
C014547.03-DA552	POWERLINE EASEMENT CLEARANCE PLAN & SECTIONS
C014547.03-DA553	POWERLINE EASEMENT CLEARANCE SECTIONS
C014547.03-DA610	POWERLINK RETAINING WALL ELEVATION

GENERAL NOTES:

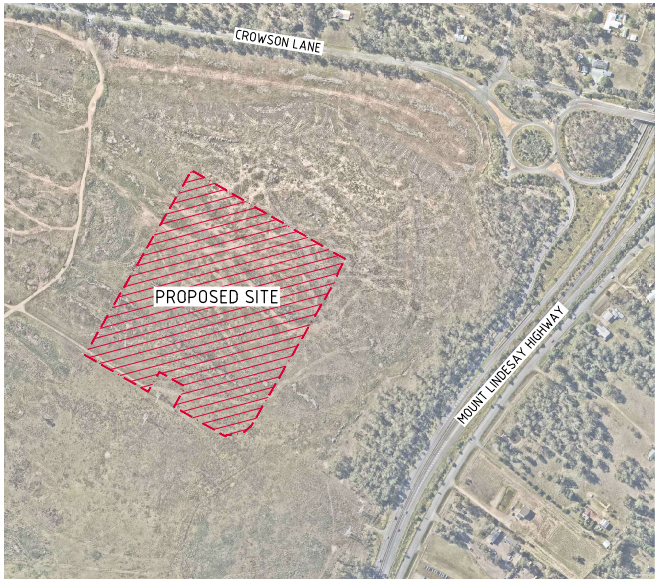
1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL ARCHITECTURAL AND OTHER CONSULTANTS' DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ANY DISCREPANCY SHALL BE REFERRED TO THE ENGINEER BEFORE PROCEEDING WITH THE WORK.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT AND CURRENT STANDARDS AUSTRALIA CODES AND WITH THE BY-LAWS AND ORDINANCES OF THE RELEVANT BUILDING AUTHORITIES EXCEPT WHERE VARIED BY THE PROJECT SPECIFICATION.
3. ALL DIMENSIONS SHOWN SHALL BE VERIFIED BY THE BUILDER ON SITE.
   ENGINEER'S DRAWINGS SHALL NOT BE SCALED FOR DIMENSIONS.
   ENGINEER'S DRAWINGS ISSUED IN ANY ELECTRONIC FORMAT MUST NOT BE USED FOR DIMENSIONAL SETOUT.
   REFER TO THE ARCHITECT'S DRAWINGS FOR ALL DIMENSIONAL SETOUT INFORMATION.
4. DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED. TEMPORARY BRACING SHALL BE PROVIDED BY THE BUILDER TO KEEP THE WORKS AND EXCAVATIONS STABLE AT ALL TIMES.
5. UNLESS NOTED OTHERWISE ALL LEVELS ARE IN METRES AND ALL DIMENSIONS ARE IN MILLIMETRES.
6. ALL WORKS SHALL BE UNDERTAKEN IN ACCORDANCE WITH ACCEPTABLE SAFETY STANDARDS & APPROPRIATE SAFETY SIGNS SHALL BE INSTALLED AT ALL TIMES DURING [illegible] OF THE JOB.

EXISTING SERVICES NOTES:

1. DURING THE EXECUTION OF WORKS, THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF EXISTING SERVICES. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED TO THE EXISTING SERVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE RELEVANT SERVICE AUTHORITY, AT NO COST TO THE PRINCIPAL.
2. WHERE IT IS NECESSARY TO REMOVE, DIVERT OR CUT INTO ANY EXISTING SERVICE, THE CONTRACTOR SHALL GIVE AT LEAST THREE (3) DAYS NOTICE OF ITS REQUIREMENTS TO THE SUPERINTENDENT, WHO WILL ADVISE WHAT ARRANGEMENTS SHOULD BE MADE FOR THE ALTERATION OF SUCH EXISTING WORKS.
3. EXISTING SERVICES HAVE BEEN PLOTTED FROM SUPPLIED DATA. THE ACCURACY IS NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ESTABLISH THE LOCATION AND LEVEL OF ALL EXISTING SERVICES PRIOR TO COMMENCING WORK. ALL CLEARANCES AND APPROVALS SHALL ALSO BE OBTAINED FROM THE RELEVANT SERVICE AUTHORITY PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL NEW AND EXHUMED SERVICES THAT CROSS EXISTING AND FUTURE ROADS/PAVEMENTS WITHIN THE SITE SHALL BE BACKFILLED WITH DGB20 MATERIAL TO SUBGRADE LEVEL AND COMPACTED TO 98% STANDARD DENSITY RATIO. SUBJECT TO PRIOR APPROVAL FROM RELEVANT AUTHORITY.
5. ON COMPLETION OF SERVICES INSTALLATION. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL, INCLUDING KERBS, FOOTPATHS, CONCRETE AREAS, GRAVEL AREAS, GRASSED AREAS AND ROAD PAVEMENTS.
6. CARE TO BE TAKEN WHEN EXCAVATING NEAR UTILITY SERVICES. NO MECHANICAL EXCAVATION TO BE UNDERTAKEN OVER SERVICES. LIAISE WITH RELEVANT AUTHORITY.
7. THE CONTRACTOR SHALL ALLOW FOR THE CAPPING OFF, EXCAVATION AND REMOVAL IF REQUIRED OF ALL EXISTING SERVICES IN AREAS AFFECTED BY THE WORKS WITHIN THE CONTRACT AREA AS SHOWN ON THE DRAWINGS UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL TO REGULATORY AUTHORITY STANDARDS AND APPROVAL.
8. THE CONTRACTOR IS TO MAINTAIN EXISTING STORMWATER DRAINAGE FLOWS THROUGH THE ROADS AT ALL TIMES. MAKE DUE ALLOWANCE FOR ALL SUCH FLOWS AT ALL TIMES.
9. PRIOR TO COMMENCEMENT OF ANY WORKS THE CONTRACTOR SHALL OBTAIN THE SUPERINTENDENT'S APPROVAL OF THE PROGRAM FOR THE RELOCATION/CONSTRUCTION OF TEMPORARY SERVICES.
10. CONTRACTOR SHALL CONSTRUCT TEMPORARY SERVICES AS REQUIRED TO MAINTAIN EXISTING SUPPLY TO BUILDINGS REMAINING IN OPERATION DURING WORKS TO THE SATISFACTION AND APPROVAL OF THE SUPERINTENDENT. ONCE DIVERSION IS COMPLETE AND COMMISSIONED THE CONTRACTOR SHALL REMOVE ALL SUCH TEMPORARY SERVICES AND MAKE GOOD TO THE SATISFACTION OF THE SUPERINTENDENT.
11. INTERRUPTION TO SUPPLY OF EXISTING SERVICES SHALL BE DONE SO AS NOT TO CAUSE ANY INCONVENIENCE OR DAMAGE TO THE ADJACENT RESIDENCES. CONTRACTOR TO GAIN APPROVAL OF THE SUPERINTENDENT FOR TIME OF INTERRUPTION.
12. THE CONTRACTOR SHALL UNDERTAKE A DIAL BEFORE YOU DIG (DBYD 1100) SERVICES SEARCH BEFORE THE COMMENCEMENT OF ANY WORKS.

ELECTRONIC INFORMATION NOTES:

1. THE ISSUED DRAWINGS IN HARD COPY OR PDF FORMAT TAKE PRECEDENCE OVER ANY ELECTRONICALLY ISSUED INFORMATION, LAYOUTS OR DESIGN MODELS.
2. THE CONTRACTOR'S DIRECT AMENDMENT OR MANIPULATION OF THE DATA OR INFORMATION THAT MIGHT BE CONTAINED WITHIN AN ENGINEER-SUPPLIED DIGITAL TERRAIN MODEL AND ITS SUBSEQUENT USE TO UNDERTAKE THE WORKS WILL BE SOLELY AT THE DISCRETION OF AND THE RISK OF THE CONTRACTOR.
3. THE CONTRACTOR IS REQUIRED TO HIGHLIGHT ANY DISCREPANCIES BETWEEN THE DIGITAL TERRAIN MODEL AND INFORMATION PROVIDED IN THE CONTRACT AND/OR DRAWINGS AND IS REQUIRED TO SEEK CLARIFICATION FROM THE SUPERINTENDENT.
4. THE ENGINEER WILL NOT BE LIABLE OR RESPONSIBLE FOR THE POSSIBLE ON-GOING NEED TO UPDATE THE DIGITAL TERRAIN MODEL, SHOULD THERE BE ANY AMENDMENTS OR CHANGES TO THE DRAWINGS OR CONTRACT INITIATED BY THE CONTRACTOR.



LOCALITY PLAN
NTS

BOARD OF PROFESSIONAL ENGINEERS
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	18.06.24	E
ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	D
ISSUED FOR DEVELOPMENT APPLICATION	13.05.24	C
ISSUED FOR DEVELOPMENT APPLICATION	23.04.24	B
ISSUED FOR DEVELOPMENT APPLICATION	30.11.23	A

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA100

CONSULT AUSTRALIA

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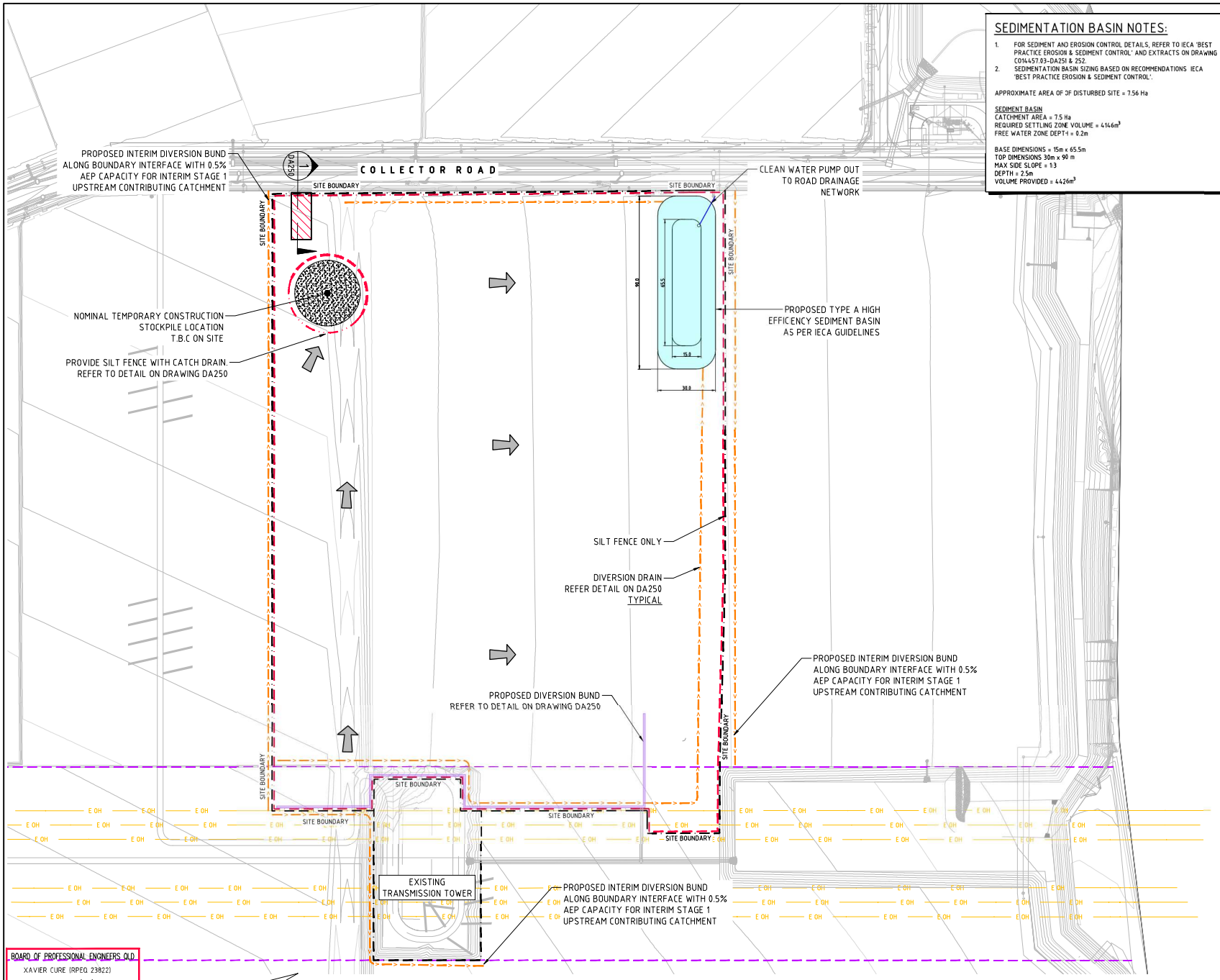
COSTIN ROE CONSULTING
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: DRAWING LIST AND GENERAL NOTES

DRAWING No: C014547.03-DA100

ISSUE: E



SEDIMENTATION BASIN NOTES:

1. FOR SEDIMENT AND EROSION CONTROL DETAILS, REFER TO IECA 'BEST PRACTICE EROSION & SEDIMENT CONTROL' AND EXTRACTS ON DRAWING C014547.03-DA251 & 252.
2. SEDIMENTATION BASIN SIZING BASED ON RECOMMENDATIONS IECA 'BEST PRACTICE EROSION & SEDIMENT CONTROL'.

APPROXIMATE AREA OF DF DISTURBED SITE = 7.56 Ha

SEDIMENT BASIN
CATCHMENT AREA = 7.5 Ha
REQUIRED SETTLING ZONE VOLUME = 4146m³
FREE WATER ZONE DEPTH = 0.2m

BASE DIMENSIONS = 15m x 65.5m
TOP DIMENSIONS 30m x 90 m
MAX SIDE SLOPE = 1:3
DEPTH = 2.5m
VOLUME PROVIDED = 4426m³

EROSION CONTROL NOTES:

ALL CONTROL WORK INCLUDING DIVERSION BANKS AND CATCH DRAINS, V-DRAINS AND SILT FENCES SHALL BE COMPLETED DIRECTLY FOLLOWING THE COMPLETION OF THE EARTHWORKS.

1. SILT FENCES AND SILT FENCE RETURNS SHALL BE ERECTED CONVEX TO THE CONTOUR TO POND WATER.
2. HAY BALE BARRIERS AND GEOFABRIC FENCES ARE TO BE CONSTRUCTED TO TOE OF BATTER, PRIOR TO COMMENCEMENT OF EARTHWORKS, IMMEDIATELY AFTER CLEARING OF VEGETATION AND BEFORE REMOVAL OF TOP SOIL.
3. ALL TEMPORARY EARTH BERMS, DIVERSION AND SILT DAM EMBANKMENTS ARE TO BE MACHINE COMPACTED, SEEDED AND MULCHED FOR TEMPORARY VEGETATION COVER AS SOON AS THEY HAVE BEEN FORMED.
4. CLEAR WATER IS TO BE DIVERTED AWAY FROM DISTURBED GROUND AND INTO THE DRAINAGE SYSTEM.
5. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROVIDING ON GOING ADJUSTMENT TO EROSION CONTROL MEASURES AS REQUIRED DURING CONSTRUCTION.
6. ALL SEDIMENT TRAPPING STRUCTURES AND DEVICES ARE TO BE INSPECTED AFTER STORMS FOR STRUCTURAL DAMAGE OR CLOGGING, TRAPPED MATERIAL IS TO BE REMOVED TO A SAFE, APPROVED LOCATION.
7. ALL FINAL EROSION PREVENTION MEASURES INCLUDING THE ESTABLISHMENT OF GRASSING ARE TO BE MAINTAINED UNTIL THE END OF THE DEFECTS LIABILITY PERIOD.
8. ALL EARTHWORKS AREAS SHALL BE ROLLED ON A REGULAR BASIS TO SEAL THE EARTHWORKS.
9. ALL FILL AREAS ARE TO BE LEFT WITH A BUND AT THE TOP OF THE SLOPE AT THE END OF EACH DAYS EARTHWORKS. THE HEIGHT OF THE BUND SHALL BE A MINIMUM OF 200mm.
10. ALL CUT AND FILL SLOPES ARE TO BE SEEDED AND HYDROMULCHED WITHIN 10 DAYS OF COMPLETION OF FORMATION.
11. AFTER REVEGETATION OF THE SITE IS COMPLETE AND THE SITE IS STABLE IN THE OPINION OF A SUITABLY QUALIFIED PERSON ALL TEMPORARY WORK SUCH AS SILT FENCE, DIVERSION DRAINS ETC SHALL BE REMOVED.
12. ALL TOPSOIL STOCKPILES ARE TO BE SUITABLY COVERED TO THE SATISFACTION OF THE SITE MANAGER TO PREVENT WIND AND WATER EROSION.
13. ANY AREA THAT IS NOT APPROVED BY THE CONTRACT ADMINISTRATOR FOR CLEARING OR DISTURBANCE BY THE CONTRACTOR'S ACTIVITIES SHALL BE CLEARLY MARKED AND SIGN POSTED, FENCED OFF OR OTHERWISE APPROPRIATELY PROTECTED AGAINST ANY SUCH DISTURBANCE.
14. ALL STOCKPILE SITES SHALL BE SITUATED IN AREAS APPROVED FOR SUCH USE BY THE SITE MANAGER. A 6m BUFFER ZONE SHALL EXIST BETWEEN STOCKPILE SITES AND ANY STREAM OR FLOW PATH. ALL STOCKPILES SHALL BE ADEQUATELY PROTECTED FROM EROSION AND CONTAMINATION OF THE SURROUNDING AREA BY USE OF THE MEASURES APPROVED IN THE EROSION AND SEDIMENTATION CONTROL PLAN.
15. ACCESS AND EXIT AREAS SHALL INCLUDE SHAKE-DOWN OR OTHER METHODS APPROVED BY THE SITE MANAGER FOR THE REMOVAL OF SOIL MATERIALS FORM MOTOR VEHICLES.
16. THE CONTRACTOR IS TO ENSURE RUNOFF FROM ALL AREAS WHERE THE NATURAL SURFACE IS DISTURBED BY CONSTRUCTION, INCLUDING ACCESS ROADS, DEPOT AND STOCKPILE SITES, SHALL BE FREE OF POLLUTANTS BEFORE IT IS EITHER DISPERSED TO STABLE AREAS OR DIRECTED TO NATURAL WATERCOURSES.
17. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN SLOPES, CROWNS AND DRAINS ON ALL EXCAVATIONS AND EMBANKMENTS TO ENSURE SATISFACTORY DRAINAGE AT ALL TIMES WATER SHALL NOT BE ALLOWED TO POND ON THE WORKS UNLESS SUCH PONDING IS PART OF AN APPROVED ESCP / SWMP.

DUST CONTROL NOTES:

1. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE DUST CONTROL MEASURES ARE APPLIED AND MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN.
2. THE APPLICATION OF LIQUID BASED DUST SUPPRESSION MEASURES MUST BE SUCH THAT SEDIMENT LADEN RUNOFF RESULTING FROM SUCH MEASURES DOES NOT CREATE A TRAFFIC OR ENVIRONMENTAL HAZARD. (EG USING HAY BALES)
3. DUST GENERATION ASSOCIATED WITH WIND EROSION TO BE CONTROLLED USING WATER TRUCKS, DUST SUPPRESSING FOG, MIST GENERATORS, SEALANT PLACED OVER THE SOIL, SURFACE ROUGHENING OR RE-VEGETATION.
4. THE FOLLOWING ACTIVITIES SHALL BE ADOPTED, IF NECESSARY, TO MANAGE DUST CONTROL ON SITE:
   - LIMITING THE AREA OF SOIL DISTURBANCE AT ANY GIVEN TIME
   - REPLACING TOPSOIL AFTER COMPLETION OF EARTHWORKS.
   - PROGRAMMING WORK TO MINIMISE THE LIFE OF STOCKPILES.
   - TEMPORARILY STABILISING LONG-TERM STOCKPILES.
   - GRAVELLING UNSEALED ACCESS AND HAUL ROADS.
   - MINIMISING TRAFFIC MOVEMENT ON EXPOSED SURFACES.
   - LIMITING VEHICULAR TRAFFIC TO 15km/h.
   - RETAINING EXISTING VEGETATION AS WIND BREAKS.
5. OIL, LANDFILL GAS CONDENSATE OR ANY CONTAMINATED LEACHATE OR STORMWATER IS NOT TO BE USED FOR DUST SUPPRESSION.

LEGEND:

PROVIDE 1m RETURNS TO SILT FENCE AT 30m MAX. INTERVALS.
TYPICAL (N.S.O.P.)

- DENOTES DIVERSION DRAIN
- DENOTES SILT FENCE WITH CATCH DRAIN
- DENOTES SILT FENCE ONLY
- DENOTES DIVERSION BUND
- DENOTES CONSTRUCTION ENTRY
- DENOTES OVERLAND FLOW PATH

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MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

EROSION & SEDIMENT CONTROL PLAN

SCALE 1:1000

FOR DEVELOPMENT APPLICATION

10m 0 10 20 30 40 50 60 70 80 90 100m
SCALE 1:1000 AT A1 SIZE SHEET

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	05.07.24	F
ISSUED FOR DEVELOPMENT APPLICATION	18.06.24	E
REVISED AS CLOUDED	17.06.24	D
ISSUED FOR DEVELOPMENT APPLICATION	14.05.24	C
ISSUED FOR DEVELOPMENT APPLICATION	23.04.24	B
ISSUED FOR DEVELOPMENT APPLICATION	30.11.23	A

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA200

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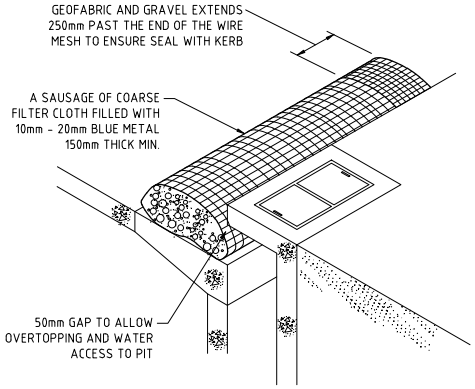
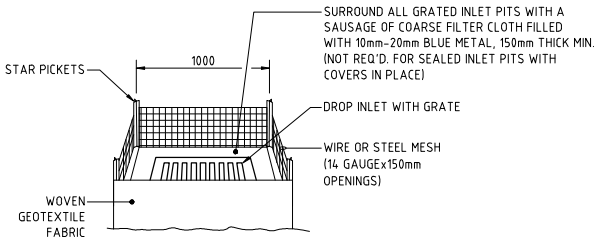
DRAWING TITLE: EROSION & SEDIMENT CONTROL PLAN

DRAWING No: C014547.03-DA200 ISSUE: F



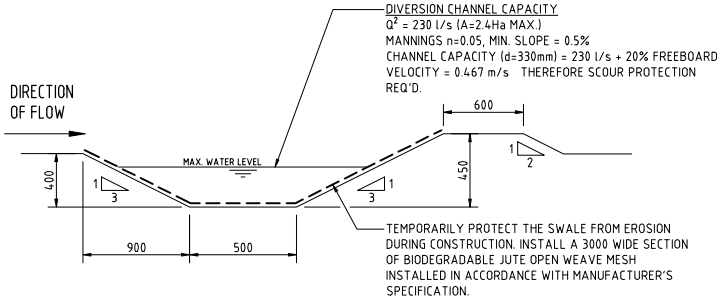
KERB INLET CONTROL

N.T.S



GRATED INLET PIT FILTER DETAIL

N.T.S

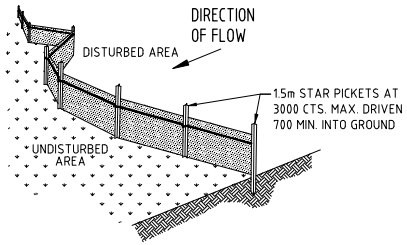


DIVERSION DRAIN SECTION

SCALE 1:20

NOTE :

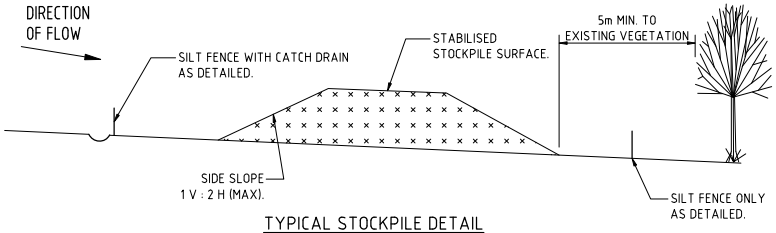
ADOPT ABOVE DETAILS AROUND ALL PITS WITHIN AREA ENCOMPASSED BY SILT FENCE & TO PITS ON THE ROAD ADJACENT TO SITE BOUNDARY.



TYPICAL SILT FENCE DETAIL

N.T.S

NOTE: PROVIDE 1m RETURNS AT 30m INTERVALS. TYPICAL

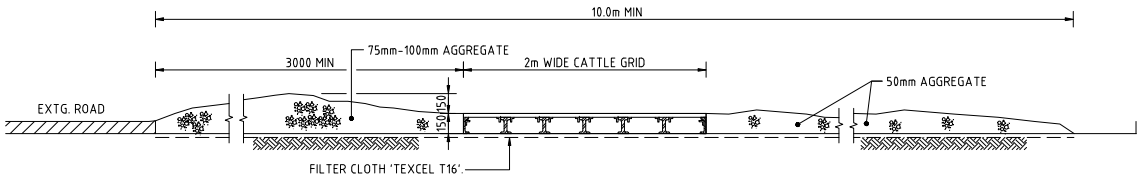


TYPICAL STOCKPILE DETAIL

N.T.S

STOCKPILE NOTES

1. PLACE ALL STOCKPILES IN LOCATIONS MORE THAN 5m FROM EXISTING VEGETATION, ROADS & HAZARD AREAS.
2. CONSTRUCT ON THE CONTOUR AS LOW, FLAT ELONGATED MOUNDS. SIDE SLOPE TO BE 1 V: 2 H MAX.
3. WHERE THERE IS SUFFICIENT AREA, TOPSOIL STOCKPILES SHALL BE LESS THAN 2m IN HEIGHT.
4. WHERE STOCKPILES ARE TO BE IN PLACE FOR MORE THAN 10 DAYS, STABILISE USING WOOD CHIP MULCH - 16 TONNE/Ha.
5. CONSTRUCT SILT FENCE WITH CATCH DRAIN ON UPSLOPE SIDE TO DIVERT WATER AROUND STOCKPILES & SILT FENCE ONLY 1 TO 2m DOWNSLOPE AS SHOWN.



SECTION 1:20 (1 / DA200) : STABILISED CONSTRUCTION ENTRANCE 'TRUCK SHAKER'

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A1 SIZE SHEET

ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	B
ISSUED FOR INFORMATION	30.11.23	A
AMENDMENTS	DATE	ISSUE

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA250

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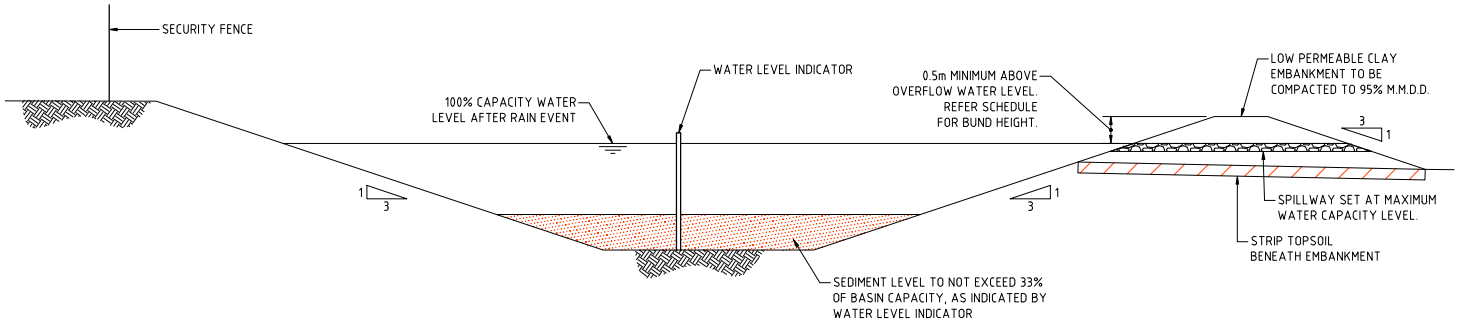
DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS SHEET 1

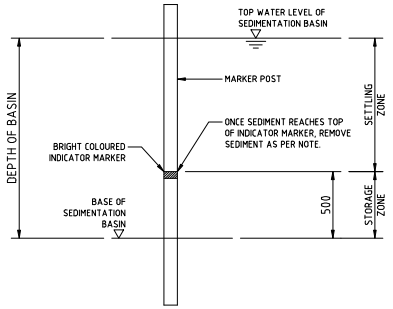
DRAWING No: C014547.03-DA250

ISSUE: B



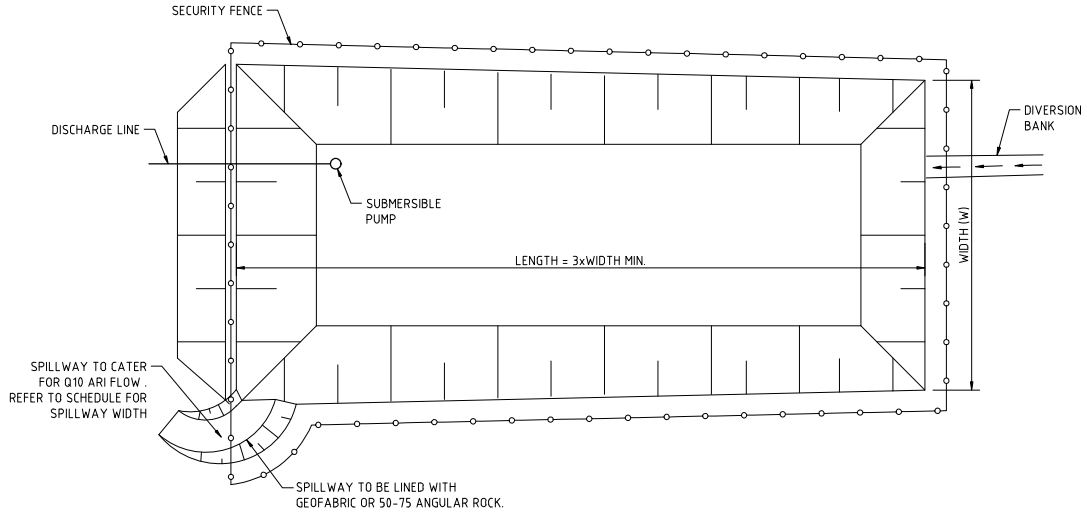
TYPICAL SEDIMENT CONTROL BASIN SECTION

SCALE 1:50



SEDIMENT STORAGE MARKER

SCALE 1:20



TYPICAL SEDIMENT CONTROL POND PLAN

SCALE 1:250

SEDIMENT CONTROL POND NOTES:

1. TYPE D BASIN IS REQUIRED.
2. VOLUME OF TYPE D POND SHALL BE AS NOMINATED ON DRAWING DA20. NOMINAL POND LOCATIONS AND NOMINAL DIMENSIONS.
3. SEDIMENT BUILD UP TO NOT EXCEED 33% TOTAL CAPACITY OF POND.
4. WATER LEVEL TO BE MAINTAINED AT 20% CAPACITY DURING SETTLING PERIOD.
5. LENGTH TO WIDTH RATIO TO BE 3:1 MIN. TYPICAL DEPTH TO BE 1.5m.
6. PROVIDE SECURITY FENCE TO POND FOR SAFETY.
7. DEWATERING OF POND TO BE PERFORMED TO THE BOTTOM OF THE SEDIMENT SETTLING ZONE FOLLOWING ACHIEVEMENT OF WQO's. MANAGEMENT OF DOSAGE AND DISCHARGE TO BE ACHIEVED IN A TIMELY MANNER BEFORE THE NEXT RAIN EVENT AND WITHIN 5 DAYS OF THE INITIAL RAINFALL EVENT.
8. WATER TO BE DOSED WITH GYPSUM TO ACCELERATE SETTLEMENT OF SUSPENDED SOLIDS
9. GYPSUM DOSAGE RATE TO BE APPLIED AT APPROX. 32kg PER 100 CUBIC METRE OF COLLECTED RUNOFF.
10. THE USE OF ALUM AS A FLOCULANT IS NOT RECOMMENDED AND IS TO BE USED ONLY FOLLOWING CONSULTATION WITH AND ACCEPTANCE FROM GOLD COAST CITY COUNCIL ESC OFFICERS.
11. DISCHARGE FROM POND IS PERMISSIBLE WHEN THE WATER PH IS 6.5-8.5 AND IS CLARIFIED TO AT OR BELOW A TSS OF 50mg/L (75 NTU). CLARIFICATION WOULD GENERALLY BE ACHIEVED IN 36-72 HOURS WITH THE USE OF GYPSUM.
12. DEWATERING SHALL BE DONE IN SUCH A MANNER AS TO REMOVE THE RELATIVELY CLEAN WATER WITHOUT REMOVING OR DISTURBING THE SEDIMENT THAT HAS SETTLED. THE PUMP INTAKE PIPE IS NOT TO REST ON THE SETTLED SEDIMENT LAYER.
13. IF WATER EXCEEDS TSS OF 50mg/L (75 NTU) DURING DEWATERING, PUMPING IS TO CEASE.
14. RECORDS ARE TO BE KEPT (ON-SITE AT ALL TIMES) OF ALL MEASUREMENT PRIOR TO, DURING AND AFTER DISCHARGE. RECORDS TO BE MADE AVAILABLE TO COUNCIL OFFICERS UPON REQUEST.

SPILLWAY DETAIL & SCHEDULE

CATCHMENT (Ha)	FLOW (m^3/s)	WIDTH (mm)	FLOW DEPTH (mm)	ROCK SIZE (mm)	BUND HEIGHT ABOVE SPILLWAY (mm)
0.20	0.14	1000	200	-	600
0.5	0.2	2000	200	-	600
1	0.3	2000	200	-	700
2	0.6	4000	200	-	700
5	1.4	5000	300	200	800

2m 0 5 10 15 20 25m

SCALE 1:250 AT A1 SIZE SHEET

500mm 0 1 2 3 4 5m

SCALE 1:50 AT A1 SIZE SHEET

200mm 0 500 1000 1500 2000mm

SCALE 1:20 AT A1 SIZE SHEET

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XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

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AMENDMENTS	DATE	ISSUE

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA251

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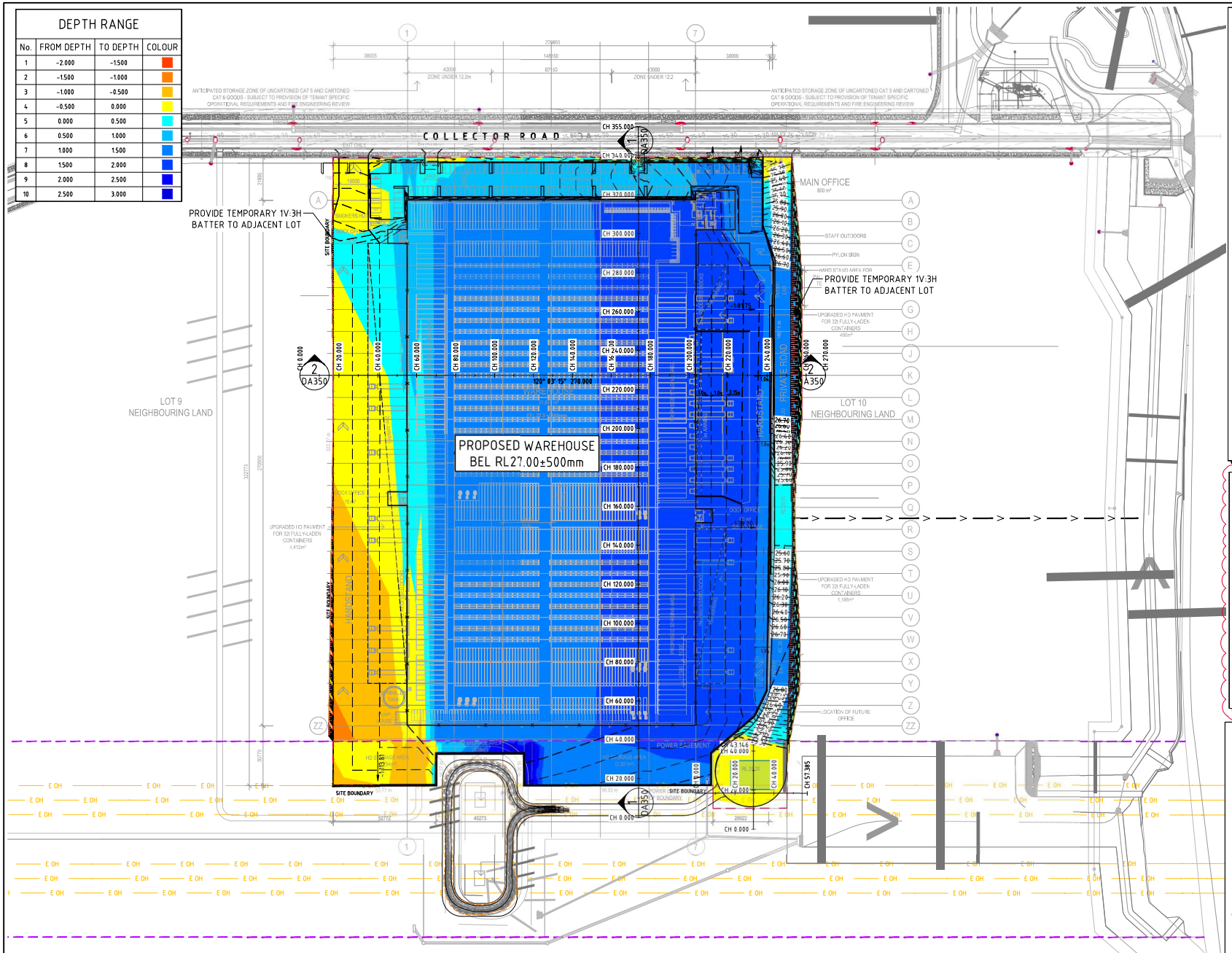
DRAWING TITLE: EROSION AND SEDIMENT CONTROL DETAILS SHEET 2

DRAWING No: C014547.03-DA251

ISSUE: B


COLLECTOR ROAD
PROPOSED WAREHOUSE
BEL RL27.00±500mm
PROVIDE TEMPORARY 1V:3H
BATTER TO ADJACENT LOT
PROVIDE TEMPORARY 1V:3H
BATTER TO ADJACENT LOT
LOT 9
NEIGHBOURING LAND
LOT 10
NEIGHBOURING LAND
MAIN OFFICE
SITE BOUNDARY
SITE BOUNDARY
SITE BOUNDARY
PRIVATE ROAD
POWER EASEMENT
CH 355.000
CH 340.000
CH 320.000
CH 300.000
CH 280.000
CH 260.000
CH 240.000
CH 220.000
CH 200.000
CH 180.000
CH 160.000
CH 140.000
CH 120.000
CH 100.000
CH 80.000
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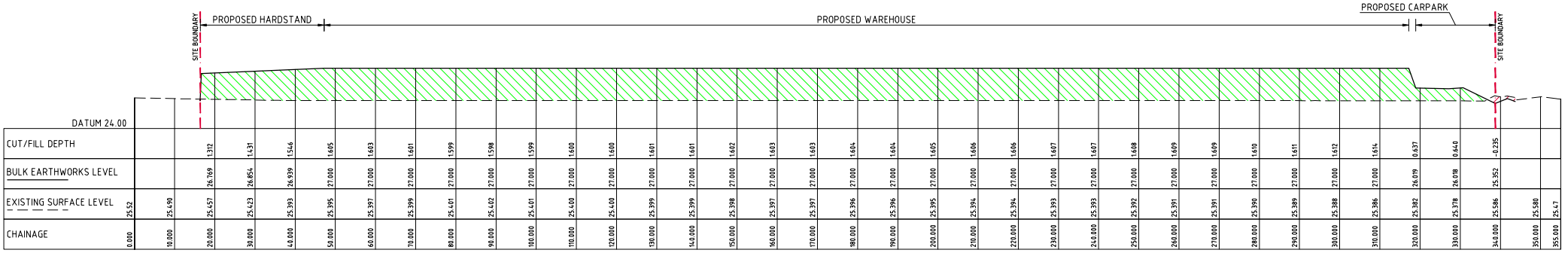
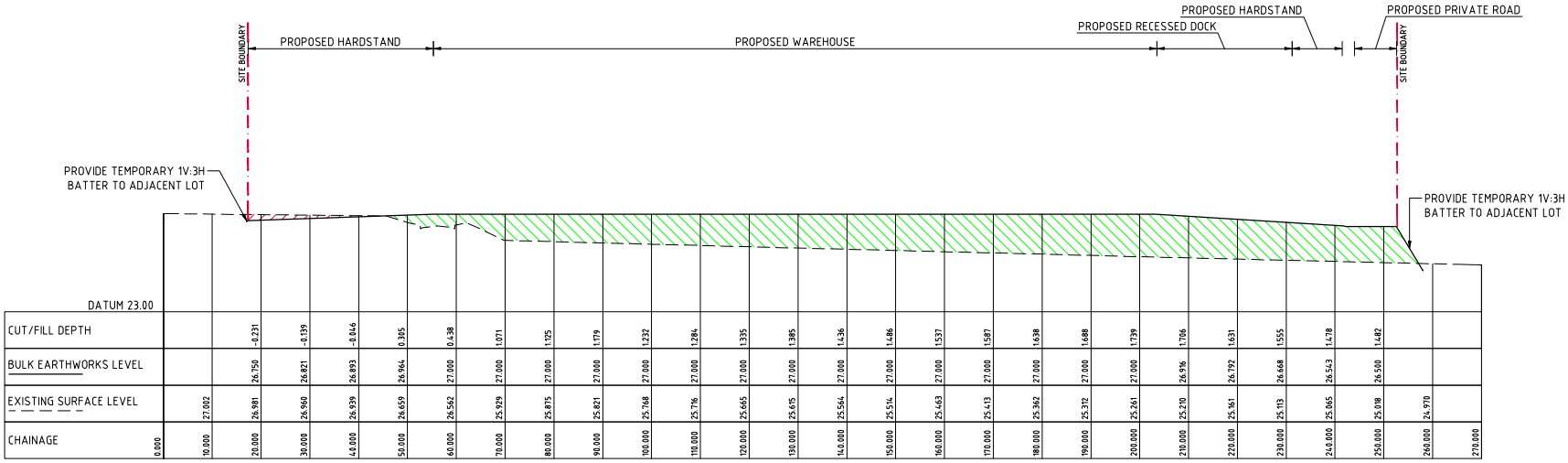
-1.875
-1.875
-1.875



SECTION 1
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100



SECTION 2
HORIZONTAL SCALE 1:500
VERTICAL SCALE 1:100

LEGEND:

- DENOTES BULK EARTHWORKS PROFILE
- DENOTES EXISTING PROFILE
- DENOTES AREA IN CUT
- DENOTES AREA IN FILL

1m 0 1 2 3 4 5 6 7 8 9 10m
SCALE 1:100 AT A1 SIZE SHEET

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

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XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
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ARCHITECT: watson young
CLIENT: Charter Hall
PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
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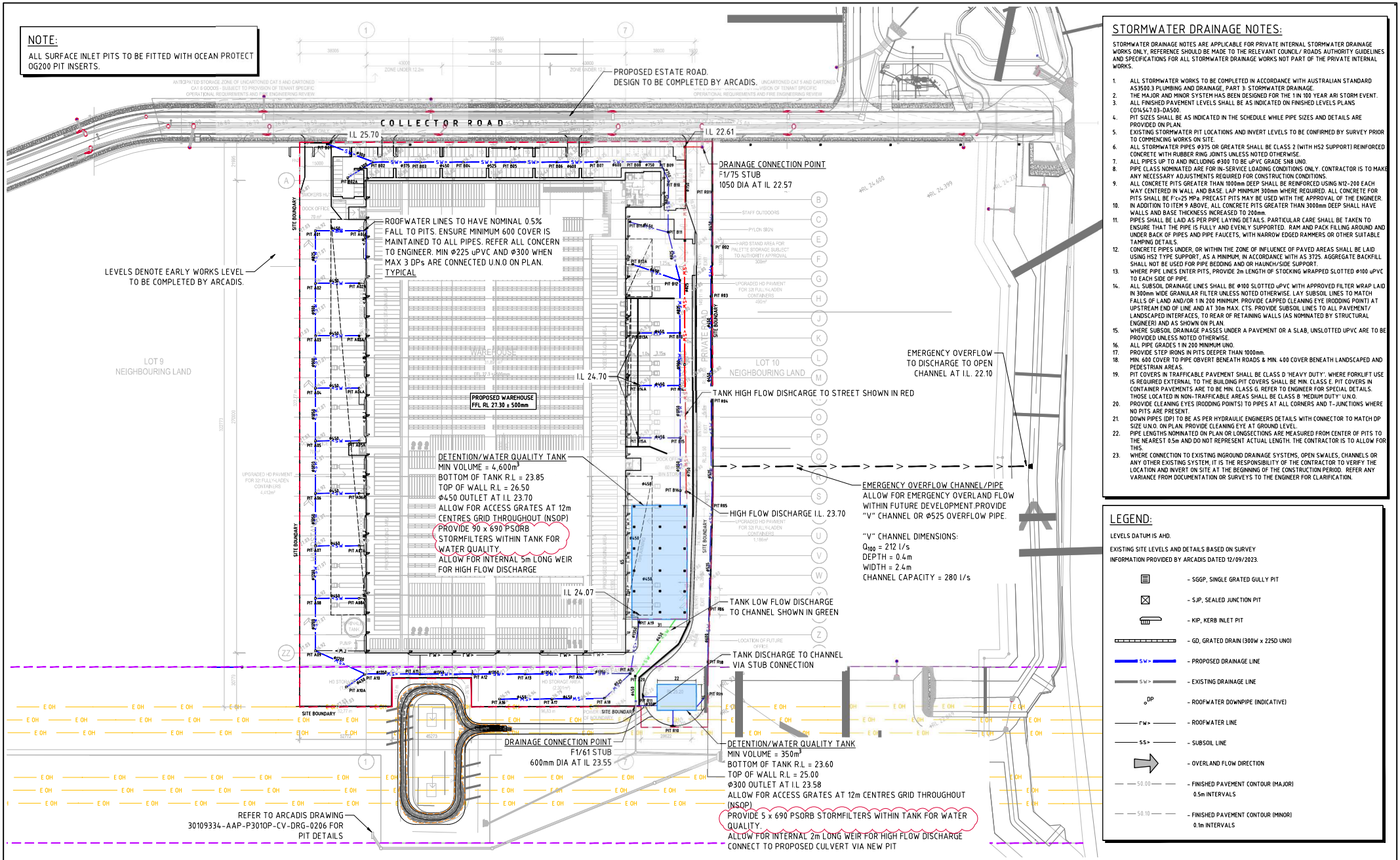
DRAWING TITLE: BULK EARTHWORKS SECTIONS
DRAWING No: C014547.03-DA350
ISSUE: B



STORMWATER DRAINAGE NOTES:

STORMWATER DRAINAGE NOTES ARE APPLICABLE FOR PRIVATE INTERNAL STORMWATER DRAINAGE WORKS ONLY. REFERENCE SHOULD BE MADE TO THE RELEVANT COUNCIL/ ROADS AUTHORITY GUIDELINES AND SPECIFICATIONS FOR ALL STORMWATER DRAINAGE WORKS NOT PART OF THE PRIVATE INTERNAL WORKS.

1. ALL STORMWATER WORKS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS3500.3 PLUMBING AND DRAINAGE, PART 3: STORMWATER DRAINAGE.
2. THE MAJOR AND MINOR SYSTEM HAS BEEN DESIGNED FOR THE 1 IN 100 YEAR ARI STORM EVENT.
3. ALL FINISHED PAVEMENT LEVELS SHALL BE AS INDICATED ON FINISHED LEVELS PLANS C014547.03-DA500.
4. PIT SIZES SHALL BE AS INDICATED IN THE SCHEDULE WHILE PIPE SIZES AND DETAILS ARE PROVIDED ON PLAN.
5. EXISTING STORMWATER PIT LOCATIONS AND INVERT LEVELS TO BE CONFIRMED BY SURVEY PRIOR TO COMMENCING WORKS ON SITE.
6. ALL STORMWATER PIPES Ø375 OR GREATER SHALL BE CLASS 2 (WITH HS2 SUPPORT) REINFORCED CONCRETE WITH RUBBER RING JOINTS UNLESS NOTED OTHERWISE.
7. ALL PIPES UP TO AND INCLUDING Ø300 TO BE uPVC GRADE SN8 UNO.
8. PIPE CLASS NOMINATED ARE FOR IN-SERVICE LOADING CONDITIONS ONLY. CONTRACTOR IS TO MAKE ANY NECESSARY ADJUSTMENTS REQUIRED FOR CONSTRUCTION CONDITIONS.
9. ALL CONCRETE PITS GREATER THAN 1000mm DEEP SHALL BE REINFORCED USING N12-200 EACH WAY CENTERED IN WALL AND BASE. LAP MINIMUM 300mm WHERE REQUIRED. ALL CONCRETE FOR PITS SHALL BE F'c=25 MPa. PRECAST PITS MAY BE USED WITH THE APPROVAL OF THE ENGINEER.
10. IN ADDITION TO ITEM 9 ABOVE, ALL CONCRETE PITS GREATER THAN 3000mm DEEP SHALL HAVE WALLS AND BASE THICKNESS INCREASED TO 200mm.
11. PIPES SHALL BE LAID AS PER PIPE LAYING DETAILS. PARTICULAR CARE SHALL BE TAKEN TO ENSURE THAT THE PIPE IS FULLY AND EVENLY SUPPORTED. RAM AND PACK FILLING AROUND AND UNDER BACK OF PIPES AND PIPE FAUCETS, WITH NARROW EDGED RAMMERS OR OTHER SUITABLE TAMPING DETAILS.
12. CONCRETE PIPES UNDER, OR WITHIN THE ZONE OF INFLUENCE OF PAVED AREAS SHALL BE LAID USING HS2 TYPE SUPPORT, AS A MINIMUM, IN ACCORDANCE WITH AS 3725. AGGREGATE BACKFILL SHALL NOT BE USED FOR PIPE BEDDING AND OR HAUNCH/SIDE SUPPORT.
13. WHERE PIPE LINES ENTER PITS, PROVIDE 2m LENGTH OF STOCKING WRAPPED SLOTTED Ø100 uPVC TO EACH SIDE OF PIPE.
14. ALL SUBSOIL DRAINAGE LINES SHALL BE Ø100 SLOTTED uPVC WITH APPROVED FILTER WRAP LAID IN 300mm WIDE GRANULAR FILTER UNLESS NOTED OTHERWISE. LAY SUBSOIL LINES TO MATCH FALLS OF LAND AND/OR 1 IN 200 MINIMUM. PROVIDE CAPPED CLEANING EYE (RODDING POINT) AT UPSTREAM END OF LINE AND AT 30m MAX. CTS. PROVIDE SUBSOIL LINES TO ALL PAVEMENT/ LANDSCAPED INTERFACES, TO REAR OF RETAINING WALLS (AS NOMINATED BY STRUCTURAL ENGINEER) AND AS SHOWN ON PLAN.
15. WHERE SUBSOIL DRAINAGE PASSES UNDER A PAVEMENT OR A SLAB, UNSLOTTED UPVC ARE TO BE PROVIDED UNLESS NOTED OTHERWISE.
16. ALL PIPE GRADES 1 IN 200 MINIMUM UNO.
17. PROVIDE STEP IRONS IN PITS DEEPER THAN 1000mm.
18. MIN. 600 COVER TO PIPE OBVERT BENEATH ROADS & MIN. 400 COVER BENEATH LANDSCAPED AND PEDESTRIAN AREAS.
19. PIT COVERS IN TRAFFICABLE PAVEMENT SHALL BE CLASS D 'HEAVY DUTY'. WHERE FORKLIFT USE IS REQUIRED EXTERNAL TO THE BUILDING PIT COVERS SHALL BE MIN. CLASS E. PIT COVERS IN CONTAINER PAVEMENTS ARE TO BE MIN. CLASS G. REFER TO ENGINEER FOR SPECIAL DETAILS. THOSE LOCATED IN NON-TRAFFICABLE AREAS SHALL BE CLASS B 'MEDIUM DUTY' U.N.O.
20. PROVIDE CLEANING EYES (RODDING POINTS) TO PIPES AT ALL CORNERS AND T-JUNCTIONS WHERE NO PITS ARE PRESENT.
21. DOWN PIPES (DP) TO BE AS PER HYDRAULIC ENGINEERS DETAILS WITH CONNECTOR TO MATCH DP SIZE U.N.O. ON PLAN. PROVIDE CLEANING EYE AT GROUND LEVEL.
22. PIPE LENGTHS NOMINATED ON PLAN OR LONGSECTIONS ARE MEASURED FROM CENTER OF PITS TO THE NEAREST 0.5m AND DO NOT REPRESENT ACTUAL LENGTH. THE CONTRACTOR IS TO ALLOW FOR THIS.
23. WHERE CONNECTION TO EXISTING INGROUND DRAINAGE SYSTEMS, OPEN SWALES, CHANNELS OR ANY OTHER EXISTING SYSTEM, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATION AND INVERT ON SITE AT THE BEGINNING OF THE CONSTRUCTION PERIOD. REFER ANY VARIANCE FROM DOCUMENTATION OR SURVEYS TO THE ENGINEER FOR CLARIFICATION.

LEGEND:

LEVELS DATUM IS AHD.

EXISTING SITE LEVELS AND DETAILS BASED ON SURVEY INFORMATION PROVIDED BY ARCADIS DATED 12/09/2023.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- SW> – PROPOSED DRAINAGE LINE
- SW> – EXISTING DRAINAGE LINE
- DP – ROOFWATER DOWNPIPE (INDICATIVE)
- rw> – ROOFWATER LINE
- ss> – SUBSOIL LINE
- OVERLAND FLOW DIRECTION
- 50.00 – FINISHED PAVEMENT CONTOUR (MAJOR) 0.5m INTERVALS
- 50.10 – FINISHED PAVEMENT CONTOUR (MINOR) 0.1m INTERVALS

STORMWATER DRAINAGE KEY PLAN
SCALE 1:1000

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
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FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REVISED AS CLOUDED	05.07.24	I
ISSUED FOR DEVELOPMENT APPLICATION	03.07.24	H
ISSUED FOR DEVELOPMENT APPLICATION	18.06.24	G
ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	F
ISSUED FOR DEVELOPMENT APPLICATION	14.05.24	E
ISSUED FOR DEVELOPMENT APPLICATION	23.04.24	D

ARCHITECT: watson young
CLIENT: Charter Hall

PROJECT
FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA400

CONSULT AUSTRALIA

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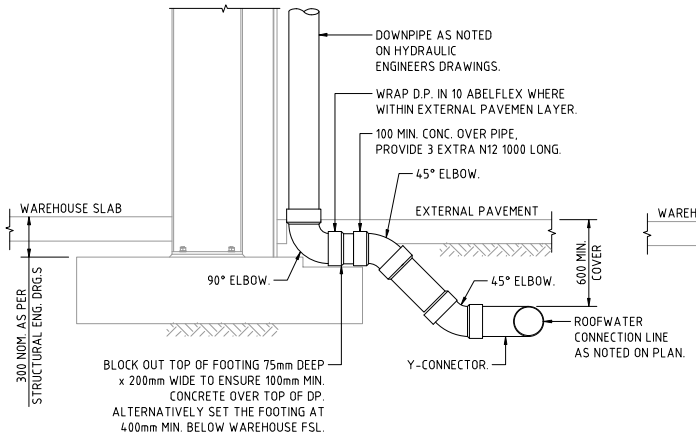
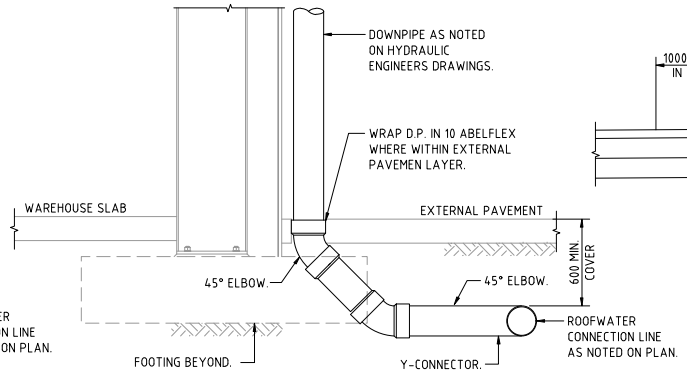
DRAWING TITLE
STORMWATER DRAINAGE KEY PLAN

DRAWING No C014547.03-DA400
ISSUE



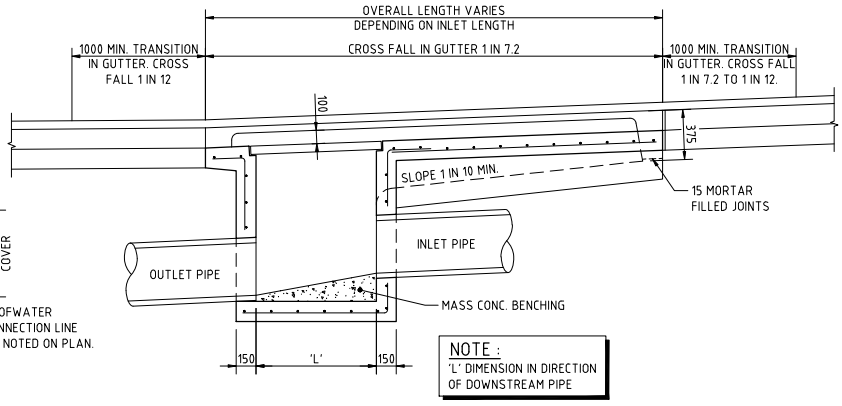
DOWNPIPE TURN-UP DETAIL A

(AT FOOTING LOCATION)
SCALE 1:20



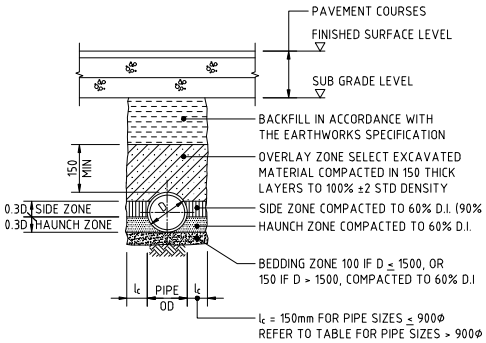
DOWNPIPE TURN-UP DETAIL B

(CLEAR OF FOOTING)
SCALE 1:20



LONG SECTION

SCALE 1:20

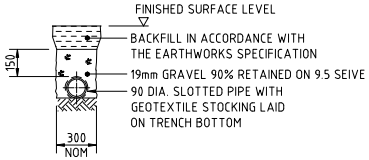


TYPE HS2 SUPPORT TO CONCRETE PIPES UNDER PAVEMENT

SCALE 1:20
D ≤ 1350, MAX FILL = 4.0m
D > 1350, MAX FILL = 3.0m

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	25 TO 0
0.075	10 TO 0

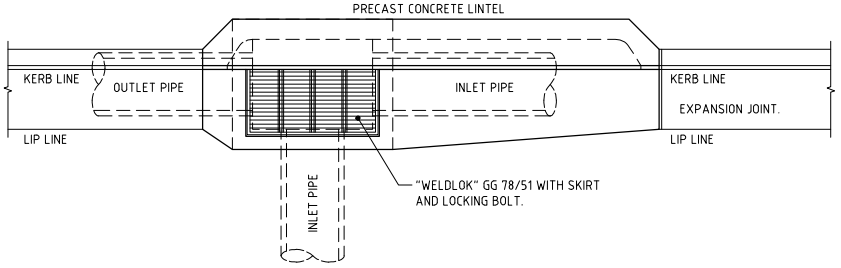
SIDE ZONE WIDTH	
PIPE SIZE (mm)	lc (mm)
≤ 900Φ	150
1050Φ	175
1200Φ	200
1350Φ	225
1500Φ	250
1650Φ	275
1800Φ	300
ENGINEER TO SPECIFY TRENCH WIDTHS FOR PIPE SIZES GREATER THAN 1800Φ	



SUPPORT TO AGRICULTURAL DRAIN

SCALE 1:20

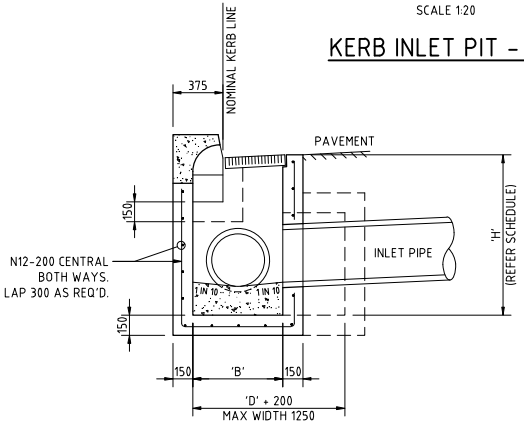
SIDE ZONE MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
9.5	100 TO 50
2.6	100 TO 30
0.60	50 TO 15
0.075	25 TO 0
SELECT FILL MATERIAL IN ACCORDANCE WITH TABLE 1 AS 3725	



PLAN

SCALE 1:20

KERB INLET PIT - KIP



CROSS SECTION

SCALE 1:20

CONCRETE QUALITY					
ELEMENT	SLUMP	AGGREGATE (MAX. SIZE)	CEMENT TYPE	ADMIXTURE	F'c (MPa)
PIT	80	20	GP	NIL	32

NOTE :

1. WHERE GULLY PIT IS LOCATED ON KERB RETURNS OR BULB OF CUL-DE-SACS PROVIDE CURVED PRECAST CONCRETE LINTELS.
2. SAG PITS SHALL HAVE LINTEL PLACED CENTRALLY ABOUT THE GRATE.
3. ALL REINFORCING TO HAVE 30 MIN. CLAER CONCRETE COVER.
4. FOR PITS DEEPER THAN 1000mm CLIMB RAILS SHALL BE PROVIDED.

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MIEAust CPEng NPER (Civil)
Signature..... Date 05 / 07 / 24

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A1 SIZE SHEET

FOR DEVELOPMENT APPLICATION

	DATE	ISSUE
ISSUED FOR INFORMATION	23.04.24	A
AMENDMENTS		

ARCHITECT: watson young
CLIENT: Charter Hall

PROJECT
FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA450

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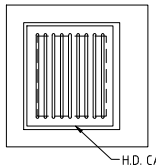
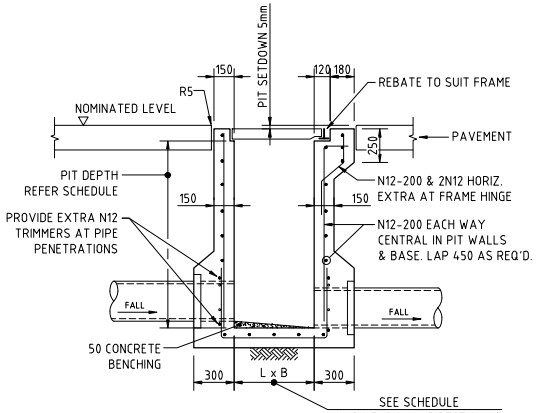
DRAWING TITLE
STORMWATER DRAINAGE DETAILS SHEET 1

DRAWING No. C014547.03-DA450
ISSUE A

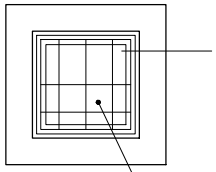


PLAN
SCALE 1:20

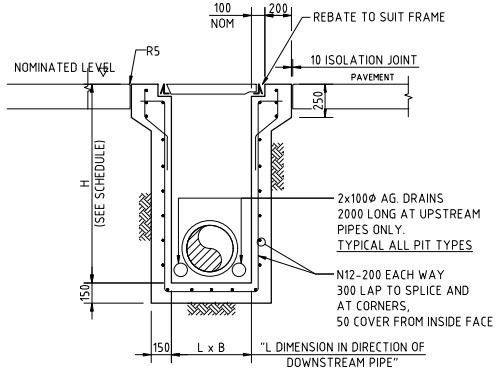


SECTION
SCALE 1:20

SEALED JUNCTION PIT - SJP

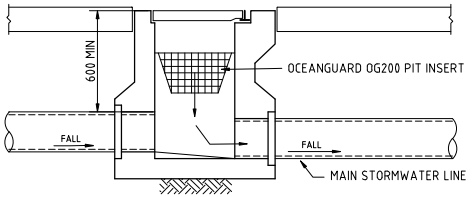


PLAN
SCALE 1:20

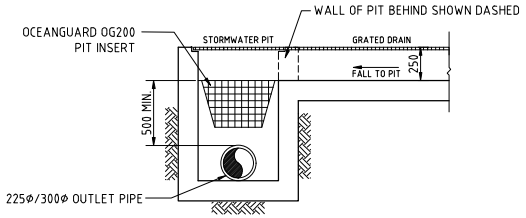


SECTION
SCALE 1:20

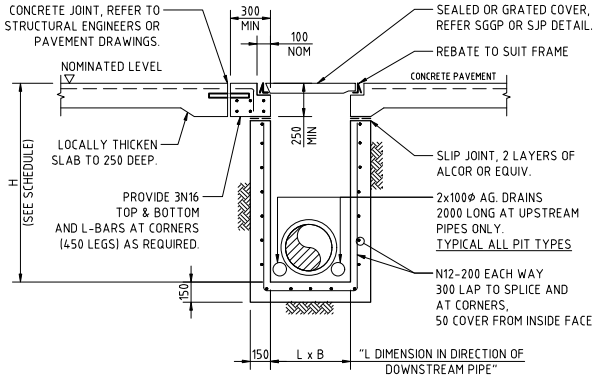
SEALED JUNCTION PIT - SJP



STORMWATER PIT WITH OCEANGUARD CONFIGURATION
SCALE 1:20



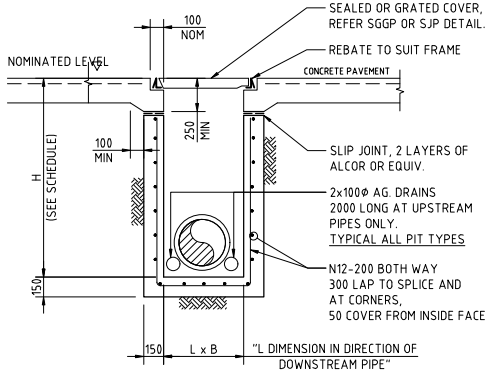
GRATED DRAIN/STORMWATER PIT WITH OCEANGUARD CONFIGURATION
SCALE 1:20



SECTION
SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

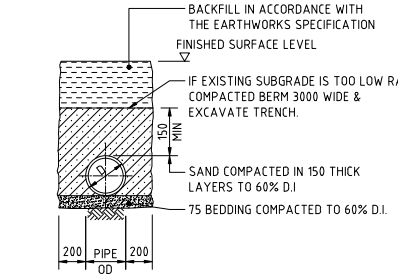
(ADOPT IN CONCRETE PAVEMENT FOR SGGP's & SJP's, WHERE PITS ARE LOCATED IN THE CORNER OF SLAB PANELS OR ADJACENT TO SLAB PANEL JOINTS)



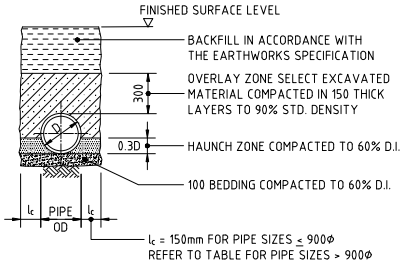
SECTION
SCALE 1:20

SJP/CIS & SGGP/CIS (CAST IN SLAB) PIT DETAIL GRATE/COVER SUPPORT CAST-INTO PAVEMENT SLAB

(ADOPT IN CONCRETE PAVEMENTS FOR SGGP's & SJP's, WHERE JOINTS ARE NOT LOCATED WITHIN PROXIMITY OF THE GRATE)



SUPPORT TO uPVC PIPES
SCALE 1:20



TYPE H1 SUPPORT TO CONCRETE PIPES AT LANDSCAPED AREAS
SCALE 1:20

BEDDING & HAUNCH MATERIAL GRADING	
SIEVE SIZE (mm)	WEIGHT PASSING (%)
19.0	100
2.36	100 TO 50
0.60	90 TO 20
0.30	60 TO 10
0.15	20 TO 0

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

200mm 0 500 1000 1500 2000mm
SCALE 1:20 AT A1 SIZE SHEET

ISSUED FOR INFORMATION	23.04.24	A
AMENDMENTS	DATE	ISSUE

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA451

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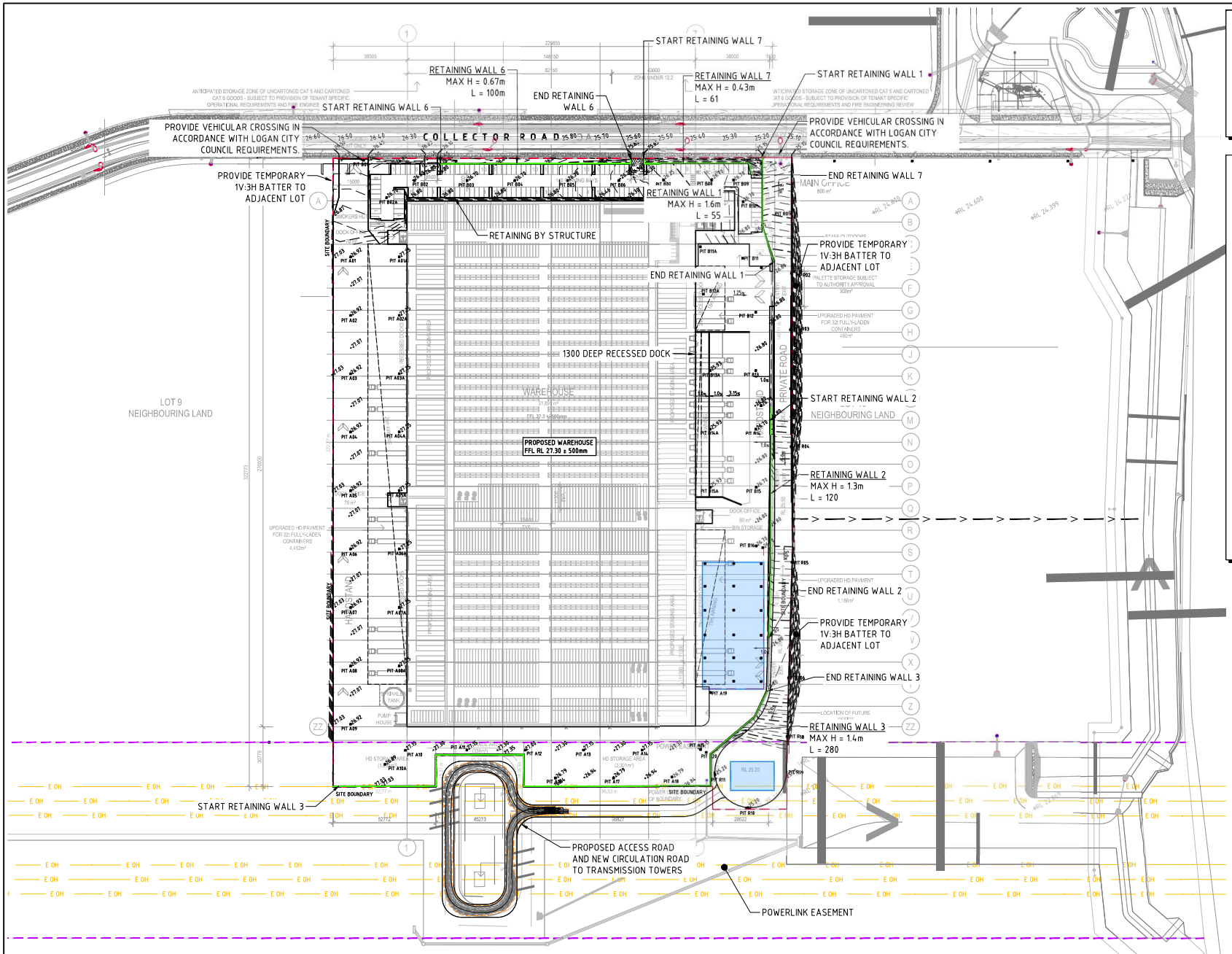
CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE: STORMWATER DRAINAGE DETAILS SHEET 2

DRAWING No: C014547.03-DA451

ISSUE: A



LEGEND:

LEVELS DATUM IS AHD.

- SGGP, SINGLE GRATED GULLY PIT
- SJP, SEALED JUNCTION PIT
- KIP, KERB INLET PIT
- GD, GRATED DRAIN (300W x 225D UNO)
- +50.00 – FINISHED PAVEMENT SPOT LEVEL

FINISHED LEVELS PLAN NOTES:

1. LEVELS DATUM IS AUSTRALIAN HEIGHT DATUM (A.H.D.).
2. GRADING REQUIREMENTS TO BE COMPLETED IN ACCORDANCE WITH AUSTRALIAN STANDARD AS2890.1, AS2890.2 AND AS2890.6.
3. ALL CONTOUR LINES & SPOT LEVELS INDICATE FINISHED PAVEMENT LEVELS U.N.O. ON PLAN.
4. CONTOUR INTERVALS
   - THE MINOR CONTOUR INTERVAL IS 0.1m.
   - THE MAJOR CONTOUR INTERVAL IS 0.5m.
5. HARDSTAND GRADING
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
   - GRADING OF ON-GRADE DOCKS TO BE 1:100 (1%) FALL AWAY FROM THE DOCK FACE FOR A LENGTH OF 15m U.N.O.
   - GRADING OF TRUCK CIRCULATION ZONES TO BE MINIMUM AS NOTED ABOVE AND MAX. 1.25%.
6. CAR PARKING AREA GRADES
   - MINIMUM PAVEMENT GRADE IS TO BE 1:100 (1%).
   - MAXIMUM PAVEMENT GRADE IS TO BE 1:80 (1.25%) N CARPARKING AREAS AND 1:80 ELSEWHERE.
   - DISABLED ACCESS PARKING ZONES AND SHARED SPACE TO BE MAXIMUM OF 1:80 (1.25%) IN ASPHALT PAVEMENT IN CONCRETE PAVEMENT.
   - CARPARK RAMP GRADES TO BE MAX 1:5 WITH 2.5m SMOOTH TRANSITION AT TOP AND BOTTOM U.N.O.
7. TRUCK RAMP GRADES
   - MAXIMUM B-DOUBLE OR 19.0m AV RAMP GRADES ARE TO BE 1:8.3 (12%) U.N.O. ON PLAN
   - PROVIDE MINIMUM 4.0m LONG TRANSITION WHERE CHANGES OF GRADE EXCEED 1:20 (5%) AT A CREST U.N.O.
   - PROVIDE MINIMUM 3.0m LONG TRANSITION WHERE CHANGE OF GRADE EXCEED 1:20 (5%) AT A SAG U.N.O.
   - TRANSITIONS ARE TO PROVIDE A SMOOTH CONTINOUS CIRCULAR AND TANGENTIAL CHANGE IN GRADE TO ENSURE NO SHARP OR ACUTE CHANGES IN GRADE ARE PRESENT.
8. WHERE FIRE BRIGADE ACCESS IS REQUIRED, MAXIMUM RAMP GRADIENTS ARE TO BE 1:6 (16.6%), DESIRABLE RAMP GRADIENTS ARE TO BE 1:8 (12.5%) WITH 7m TRANSITION TOP AND BOTTOM U.N.O. ON PLAN.
9. PERMANENT BATTER SLOPES ARE TO HAVE A MAXIMUM GRADE OF 1V:3H U.N.O. BASED ON GEOTECHNICAL ASSESSMENT. PROVIDE MINIMUM 0.5m BERM BETWEEN THE BACK OF KERB OR PAVEMENT EDGES AND THE TOP OR TOE OF A BATTER.
10. ALL BATTER SLOPE WITH GRADES AT OR EXCEEDING 1V:6H ARE TO BE TURFED IMMEDIATELY OR APPROPRIATE EROSION CONTROL IS TO BE PROVIDED TO THE SATISFACTION OF THE ENGINEER.
11. ALL FOOTPATHS ARE TO FALL AWAY FROM THE BUILDING AT 1.25% NOMINAL GRADE.
12. ALL PAVEMENTS ARE TO BE SET AT 30mm BELOW THE FINISHED FLOOR LEVEL OF THE WAREHOUSE AND OFFICE AREAS. PROVIDE LOCAL FEATHERING AT DOORWAYS OR ROLLER SHUTTERS TO PROVIDE FLUSH FINISH AS REQUIRED.
13. WHERE NEW AND EXISTING INTERFACING IS REQUIRED, MATCH EXISTING LEVELS AND PROVIDE SMOOTH INTERFACE BETWEEN NEW AND EXISTING GRADIENTS. REFER ANY CONCERNS TO THE ENGINEER.

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XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FINISHED LEVELS PLAN
SCALE 1:1000

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	05.03.24	F
REISSUED FOR UPDATED ESTATE ROADS AND DRAINAGE	03.07.24	E
ISSUED FOR DEVELOPMENT APPLICATION	18.06.24	D
ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	C
ISSUED FOR DEVELOPMENT APPLICATION	14.05.24	B
ISSUED FOR DEVELOPMENT APPLICATION	23.04.24	A

ARCHITECT: watson young
CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA500

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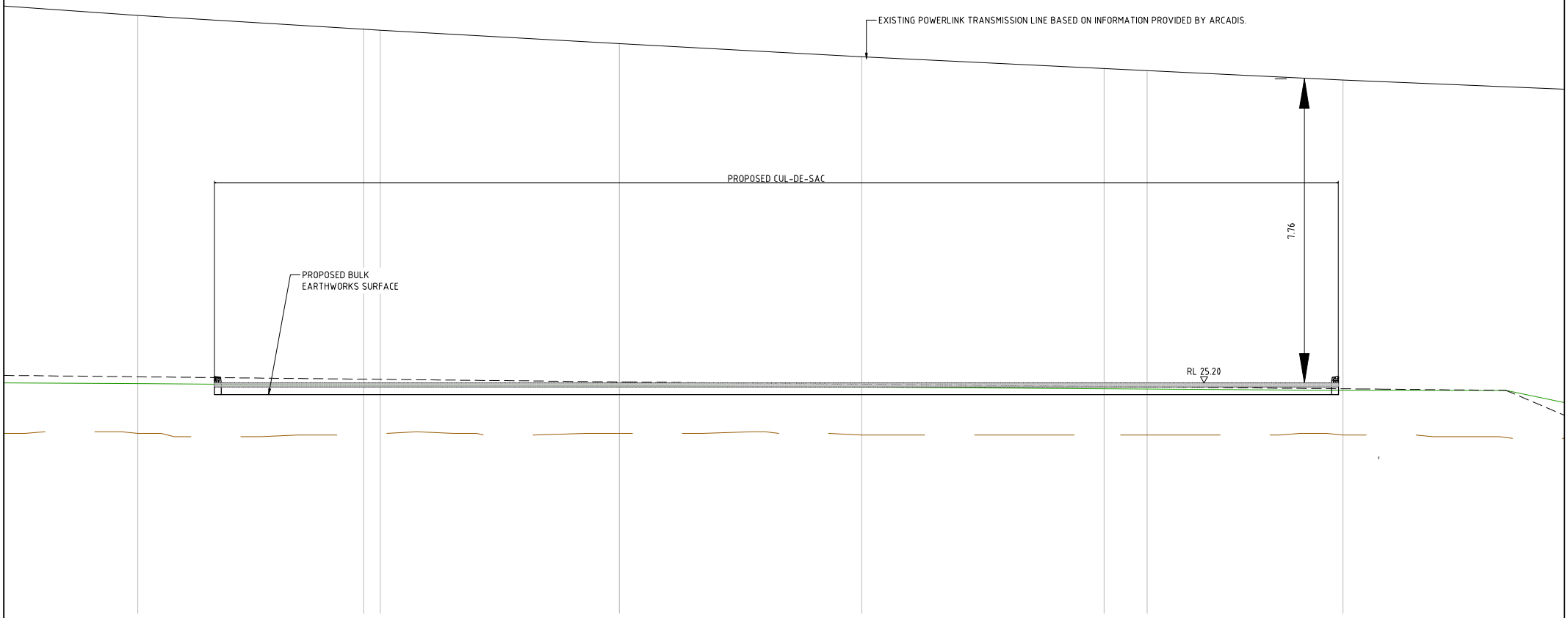
DRAWING TITLE: FINISHED LEVELS PLAN
DRAWING No: C014547.03-DA500
ISSUE: F



POWERLINK OVERHEAD POWERLINE SECTION

SCALE 1:50

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature..... Date 05 / 07 / 24

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

2m 0 5 10 15 20 25m
SCALE 1:250 AT A1 SIZE SHEET

FOR INFORMATION

ISSUED FOR INFORMATION	10.05.24	A
AMENDMENTS	DATE	ISSUE

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA551

CONSULT AUSTRALIA

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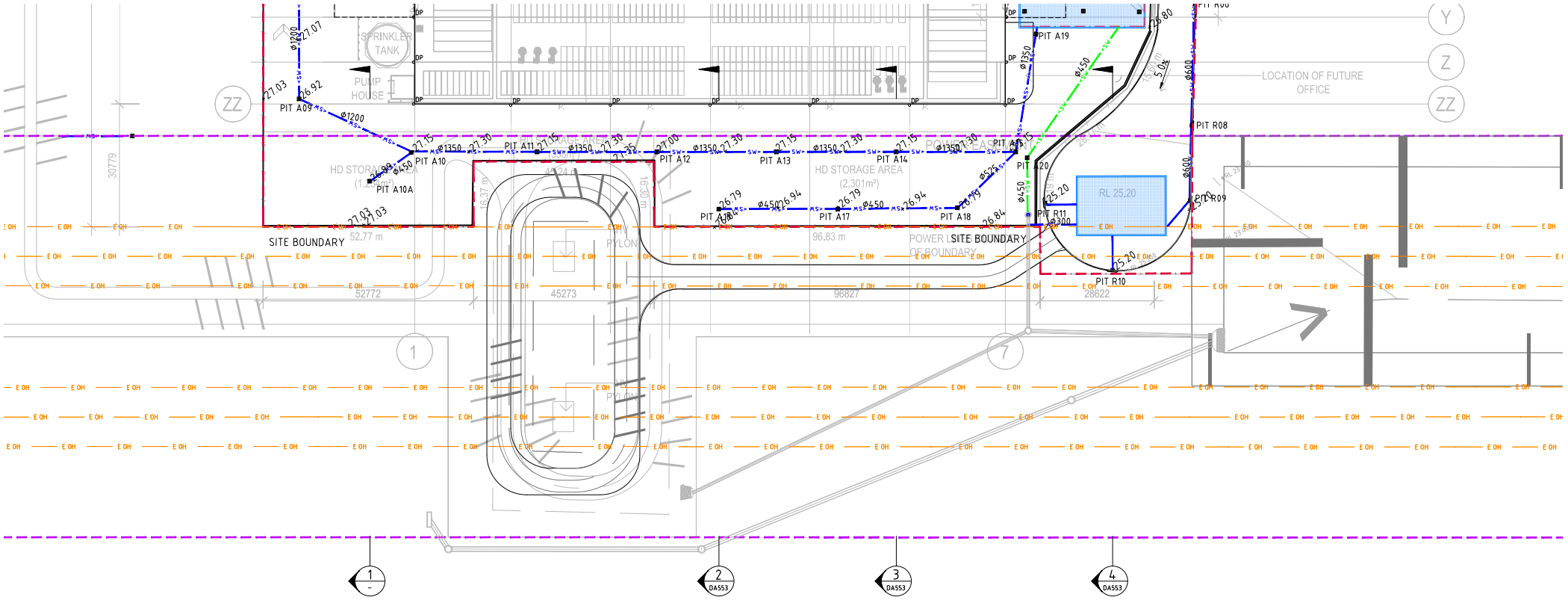
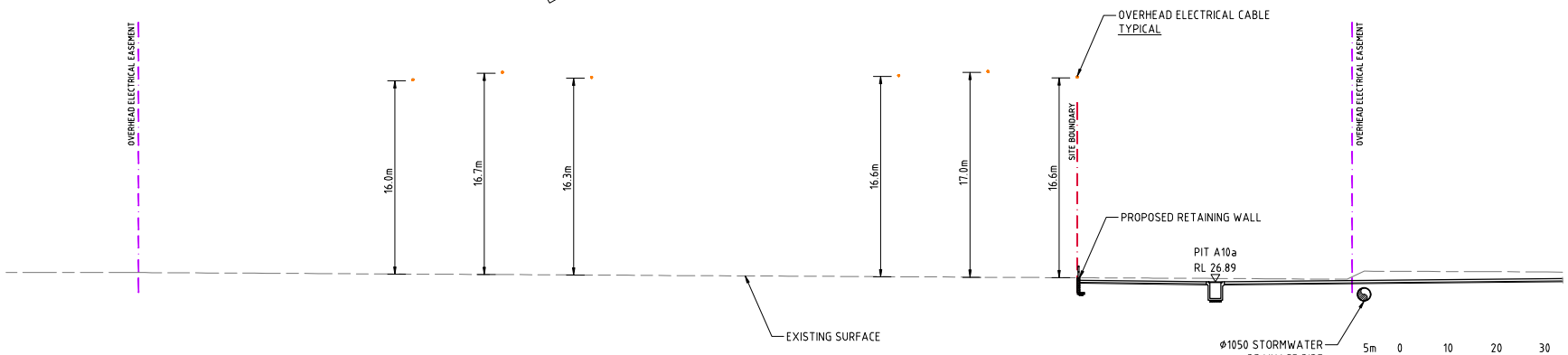
DRAWING TITLE: POWERLINK OVERHEAD POWERLINE SECTION

DRAWING No: C014547.03-DA551 ISSUE: A



POWERLINE EASEMENT CLEARANCE PLAN

SCALE 1:500



SECTION 1:200 (1)

5m 0 10 20 30 40 50m
SCALE 1:500 AT A1 SIZE SHEET

2m 0 5 10 15 20m
SCALE 1:200 AT A1 SIZE SHEET

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
REISSUED FOR UPDATED ESTATE ROADS AND DRAINAGE	03.07.24	B
ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	A

ARCHITECT: watson young

CLIENT: Charter Hall

PROJECT: FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

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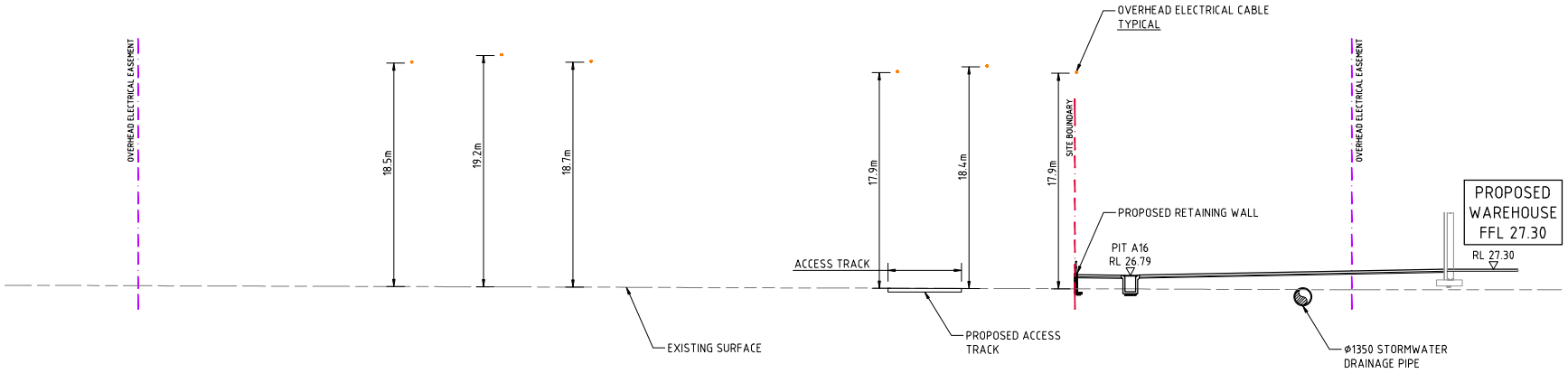
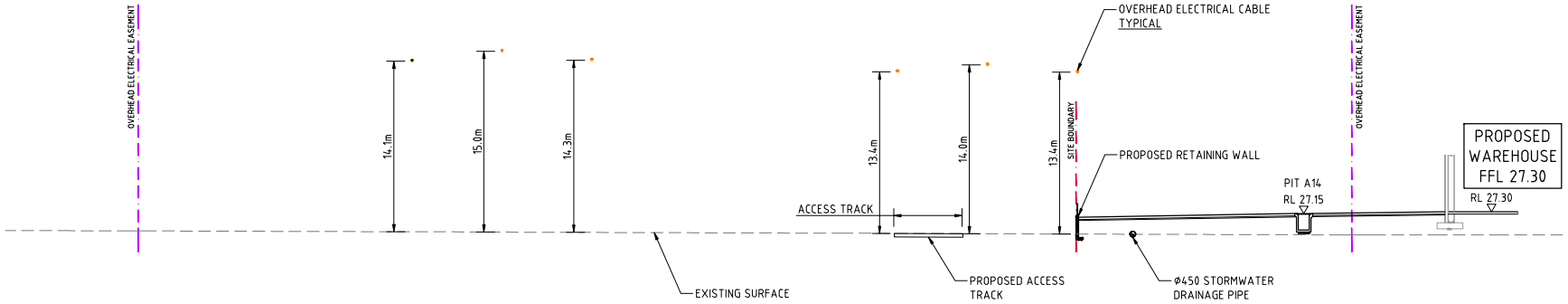
DRAWING TITLE: POWERLINE EASEMENT CLEARANCE PLAN & SECTIONS

DRAWING No: C014547.03-DA552

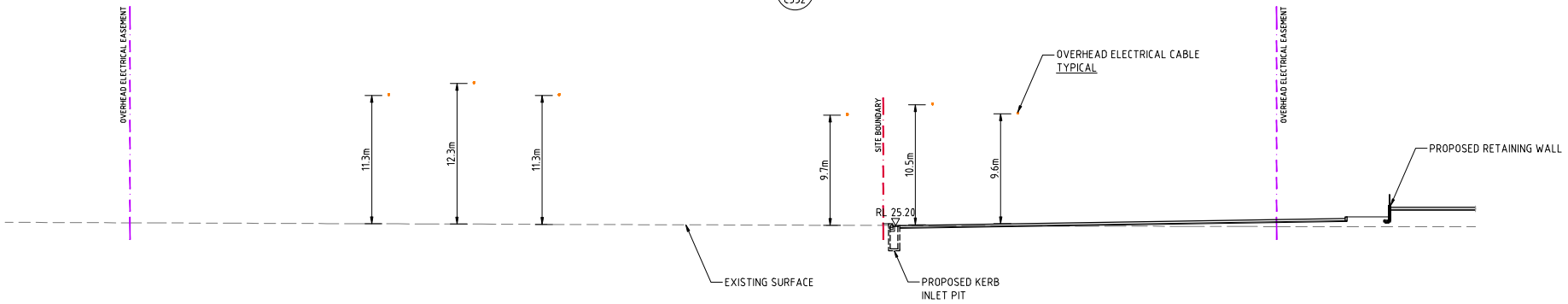
ISSUE: B



SECTION 1:200 2 C552



SECTION 1:200 3 C552



SECTION 1:200 4 C552

BOARD OF PROFESSIONAL ENGINEERS QLD
XAVIER CURE (RPEQ 23822)
MIEAust CPEng NPER (Civil)
Signature ..... Date 05 / 07 / 24

2m 0 5 10 15 20m
SCALE 1:200 AT A1 SIZE SHEET

FOR DEVELOPMENT APPLICATION

AMENDMENTS	DATE	ISSUE
ISSUED FOR DEVELOPMENT APPLICATION	03.07.24	B
ISSUED FOR DEVELOPMENT APPLICATION	17.06.24	A

ARCHITECT watson young

CLIENT Charter Hall

PROJECT
FLAG STONE LOGISTICS ESTATE
NORTH MACLEAN, QLD, 4280
PROPOSED LOT 102

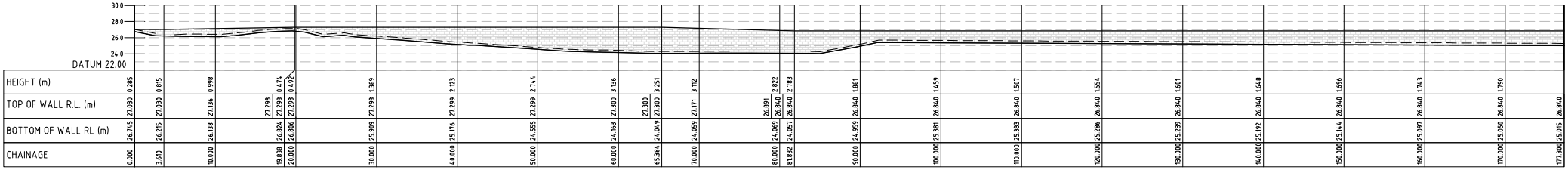
DESIGNED	DRAWN	DATE	CHECKED	SIZE	SCALE	CAD REF:
AH	RN	OCT '23	XC	A1	AS SHOWN	C014547.03-DA553

CONSULT AUSTRALIA

Costin Roe Consulting Pty Ltd.
ABN 50 005 696 446
PO Box N419 Sydney NSW 1220
Level 4, 8 Windmill Street, Millers Point NSW 2000
p: +61 2 9251 7699 f: +61 2 9241 3731
e: mail@costinroe.com.au w: costinroe.com.au
COSTIN ROE CONSULTING CIVIL & STRUCTURAL ENGINEERS

DRAWING TITLE
POWERLINE EASEMENT CLEARANCE SECTIONS

DRAWING No C014547.03-DA553 ISSUE B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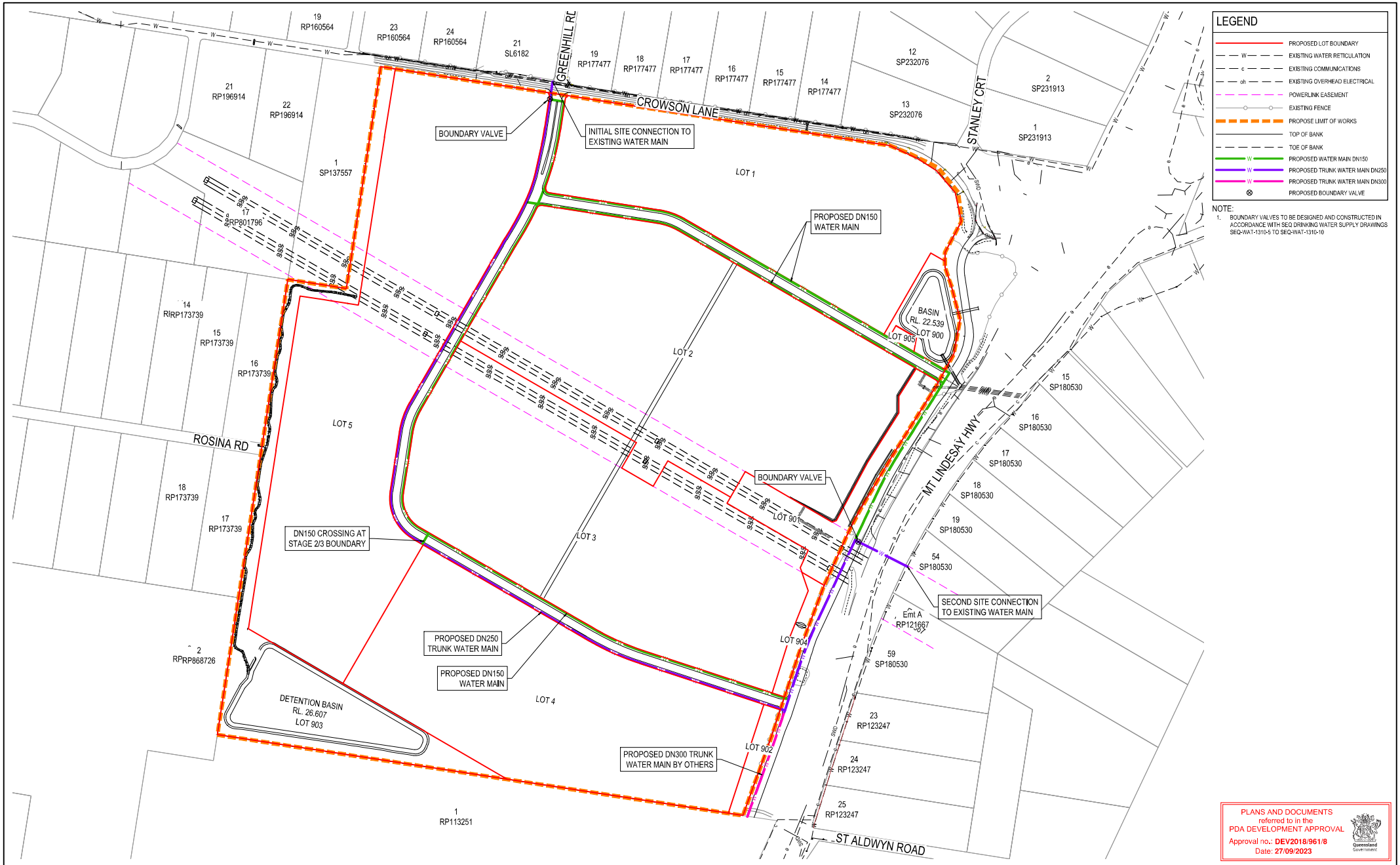
28.0
26.0
24.0
DATUM 22.00

| | | |

APPENDIX B

Overall Water Main Layout Plan and Preliminary Sewer Sketch Plan prepared by Arcadis



Issue	Description	DR	CH	VE	Date
01	ORIGINAL ISSUE	GP	GP	BK	8.08.23

Scales

0 30 60 120 180 240 300m

1 : 3000

Surveyor: WOLTER consulting group (Planning, Urban Design, Landscape, Environment, Surveying)

Architect: -

Client: Charter Hall

Status: CONCEPT DESIGN ONLY
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Original Issue Signatures

Drawn	G.PUMNUT	Original Size	A1
Designed	G.PUMNUT	Height Datum	AHD
Project Manager	T.FANNING	Grid	
Verified	B.KITSON	R.P.E.Q. No: 7884 Date 8/08/2023	

Project: 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

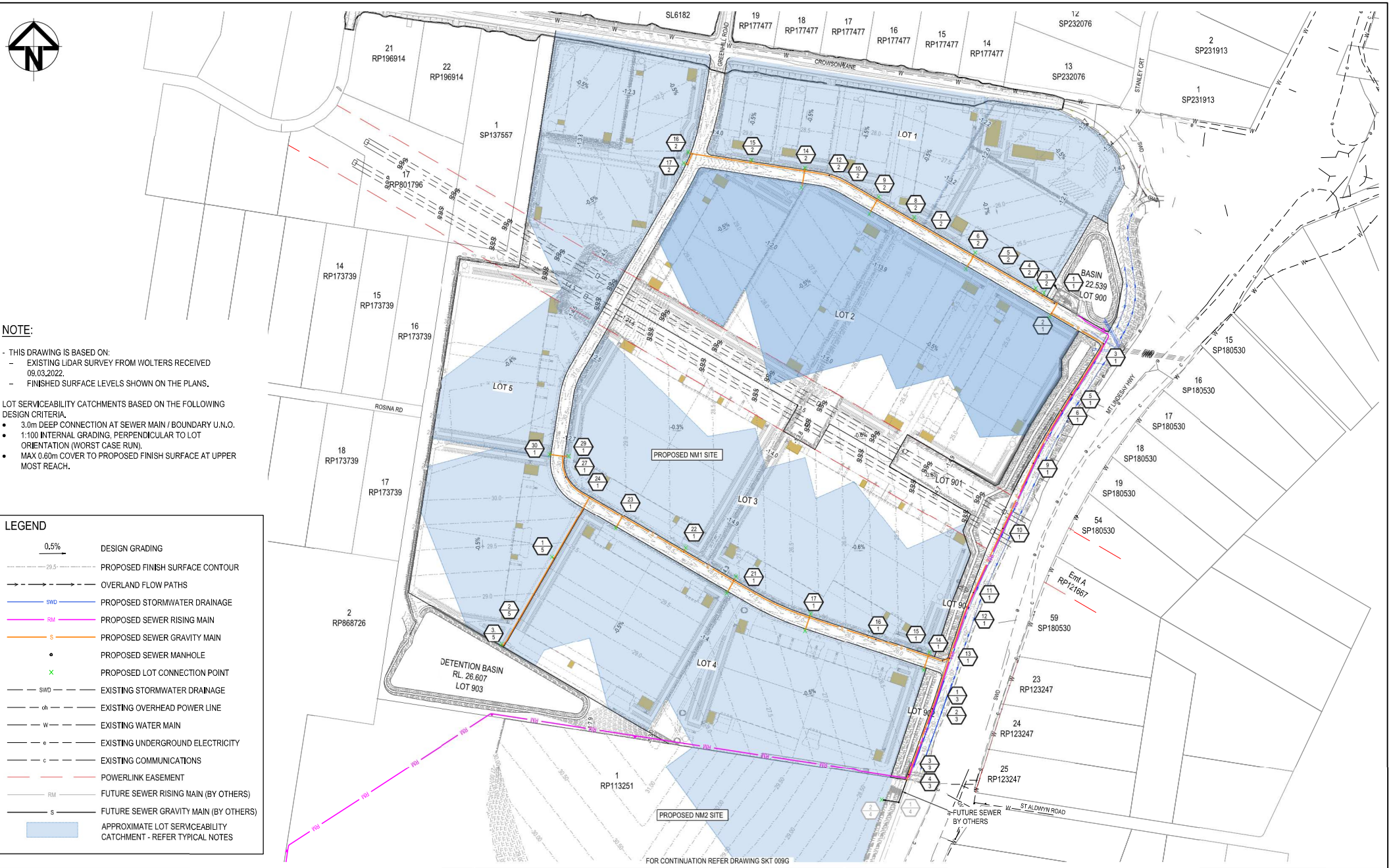
Title: OVERALL WATER MAIN SKETCH LAYOUT PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No.	Folder Prefix	Zone	Stage/Phase	Discipline	Type	Drawing No.	Issue
30109334	- AAP	- WS00OP	- CV	- SKT	- 031	- 01	

100mm on Original

Date Plotted: 18 Aug 2023 - 11:56AM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-031-Overall Water Layout.dwg V1



NOTE:

- THIS DRAWING IS BASED ON:
  - EXISTING LIDAR SURVEY FROM WOLTERS RECEIVED 09.03.2022.
  - FINISHED SURFACE LEVELS SHOWN ON THE PLANS.

LOT SERVICEABILITY CATCHMENTS BASED ON THE FOLLOWING DESIGN CRITERIA.

- 3.0m DEEP CONNECTION AT SEWER MAIN / BOUNDARY U.N.O.
- 1:100 INTERNAL GRADING, PERPENDICULAR TO LOT ORIENTATION (WORST CASE RUN).
- MAX 0.60m COVER TO PROPOSED FINISH SURFACE AT UPPER MOST REACH.

LEGEND

0.5%	DESIGN GRADING
29.5	PROPOSED FINISH SURFACE CONTOUR
	OVERLAND FLOW PATHS
SWD	PROPOSED STORMWATER DRAINAGE
RM	PROPOSED SEWER RISING MAIN
S	PROPOSED SEWER GRAVITY MAIN
	PROPOSED SEWER MANHOLE
	PROPOSED LOT CONNECTION POINT
SWD	EXISTING STORMWATER DRAINAGE
oh	EXISTING OVERHEAD POWER LINE
W	EXISTING WATER MAIN
e	EXISTING UNDERGROUND ELECTRICITY
c	EXISTING COMMUNICATIONS
	POWERLINK EASEMENT
RM	FUTURE SEWER RISING MAIN (BY OTHERS)
S	FUTURE SEWER GRAVITY MAIN (BY OTHERS)
	APPROXIMATE LOT SERVICEABILITY CATCHMENT - REFER TYPICAL NOTES

Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	LINE 04 ADDED	JG	EP	GE	24.10.22
02	LINES 2 AND 3 ADDED	JG	EP	GE	26.08.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales

0 30 60 120 180 240 300m

1 : 3000

Surveyor

WOLTER consulting group

Planning Urban Design Landscape Environment Surveying

Architect

-

Client

Charter Hall

Status

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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

PRELIMINARY SEWER SKETCH PLAN

ARCADIS

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Level 35, 111 Eagle Street
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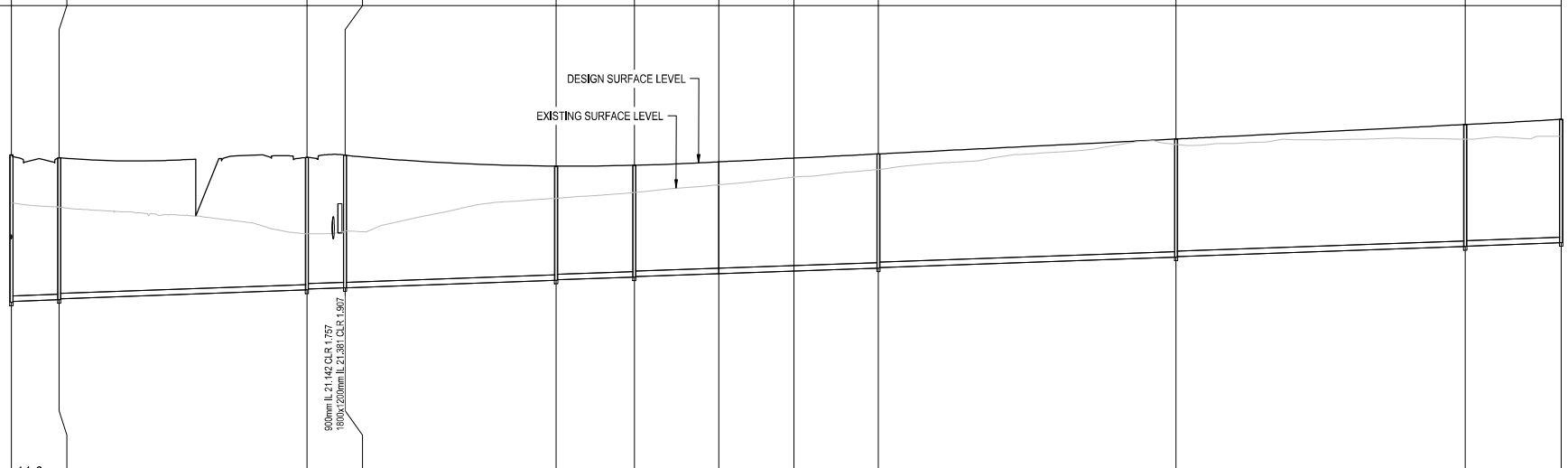
ABN 76 104 485 289

Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No.	Folder Prefix	Zone / Stage / Phase	Discipline	Type	Drawing No.	Issue
30109334 -	AAP	- WS00OP -	CV	- SKT -	009 -	05

Date Plotted: 28 Aug 2023 - 04:18PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1



STRUC/ BEND/ END NAME	1/1	2/1	3/1	4/1	5/1	6/1	7/1	8/1	9/1	10/1	11/1	12/1
STRUCTURE TYPE	P2	P2	P2	P2	P2	P2	HTP	HTP	P2	P2	P2	P2
STRUCTURE LID TYPE	B	B	B	B	B	B			B	B	B	B
STRUCTURE DROP TYPE		V	V	V	V	V	V		V	V	V	V
JUNCTION LINE												
DEPTH TO HC												
HC INVERT LEVEL												
HC TYPE												
HC LOT No												
CH. FROM D/S STRUC/ BEND												
DATUM R.L.	11.0											
LAND USE												
DIAMETER		225Ø uPVC										
GRADE	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286	1 in 286
EMBEDMENT TYPE												
DEPTH TO INVERT	6.117 / 6.077 / 5.879	5.839	5.502 / 5.462 / 5.498	5.498	4.739 / 4.719 / 4.636	4.616	4.637	4.637 / 4.682 / 4.662 / 4.732	4.712	4.897 / 4.877	5.060 / 5.040	5.113
JUNCTION INVERT LEVEL												
SEWER INVERT LEVEL	18.500 / 18.540 / 18.609	18.649	19.009 / 19.049 / 19.105	19.105	19.411 / 19.431 / 19.545	19.565	19.667	19.687 / 19.797 / 19.797 / 19.919	19.939	20.371 / 20.391	20.811 / 20.831	20.971
DESIGN SURFACE LEVEL	24.617	24.488	24.511	24.602	24.150	24.181	24.324	24.479	24.651	25.269	25.871	26.084
SETOUT	E501869.092 / N6929375.976	E501859.086 / N6929358.865	E501948.092 / N6929307.383	E501940.368 / N6929293.578	E501883.855 / N6929219.517	E501876.379 / N6929192.062	E501858.372 / N6929162.050	E501843.412 / N6929134.588	E501827.963 / N6929103.183	E501775.903 / N6928991.188	E501725.410 / N6928882.328	E501709.737 / N6928845.741
RUNNING CHAINAGE	0.000 / 19.800	19.800 / 102.633	122.533 / 15.819	138.452 / 87.545	225.997 / 32.455	258.452 / 35.000	293.452 / 31.272	324.723 / 35.000	359.723 / 123.503	483.227 / 120.000	603.227 / 39.803	643.029

1

Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	24.10.22
02	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	11.10.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales

HORZ 0 10 20 40 60 80 100m — 1 : 1000

VERT 0 1 2 4 6 8 10m — 1 : 100

Surveyor: WOLTER consulting group (Planning, Urban Design, Landscape, Environment, Surveying)

Architect: -

Client: Charter Hall

Status: CONCEPT DESIGN ONLY
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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project: 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title: PRELIMINARY SEWER LONGITUDINAL SECTION SHEET 1 OF 5

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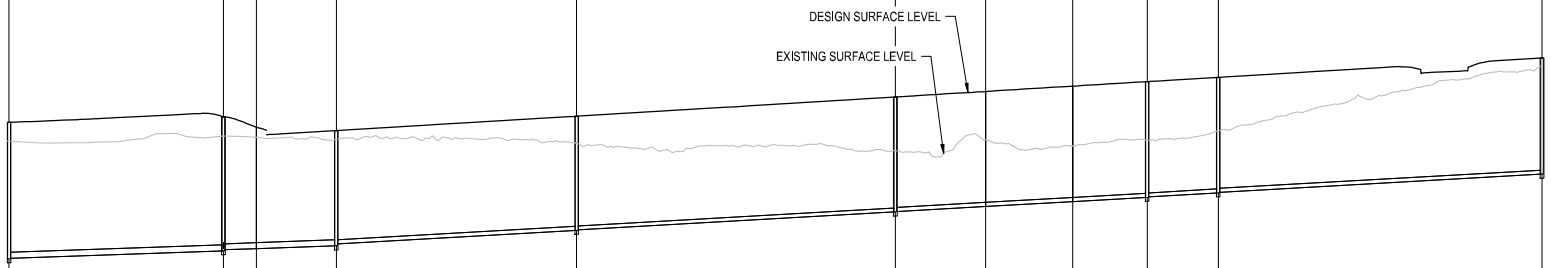
Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334	- AAP	- WS00OP	- CV	- SKT	- 009A	- 05		

STRUC/ BEND/ END NAME		12/1	13/1	14/1	15/1	16/1	17/1	18/1	19/1	20/1	21/1	22/1
STRUCTURE TYPE	P2	P2	P2	HTP	P2	P2	P2	HTP	HTP	P2	P2	P2
STRUCTURE LID TYPE	B	B			B	B	B			B	B	B
STRUCTURE DROP TYPE		V	V		V	V	V				V	V
JUNCTION LINE			LINE 3									
DEPTH TO HC												
HC INVERT LEVEL												
HC TYPE												
HC LOT No												
CH. FROM D/S STRUC/ BEND												



DATUM R.L.		15.0											
LAND USE													
DIAMETER		225Ø uPVC						150Ø uPVC					
GRADE		1 in 286	1 in 286	1 in 286	1 in 179	1 in 179	1 in 179	1 in 179	1 in 179	1 in 179	1 in 179		
EMBEDMENT TYPE													
DEPTH TO INVERT	5.113	5.093	5.027	4.987	4.549	4.549	4.316	4.241	4.277	4.257	4.305	4.285	4.302
JUNCTION INVERT LEVEL				21.352									
SEWER INVERT LEVEL	20.971	20.991	21.272	21.312	21.355	21.355	21.460	21.535	22.039	22.059	22.727	22.747	22.937
DESIGN SURFACE LEVEL		26.084		26.299		25.903		25.776		26.316		27.032	
SETOUT	E501709.737 N6928845.741		E501684.529 N6928769.506		E501673.038 N6928765.137		E501644.536 N6928774.498		E501559.029 N6928602.561		E501445.607 N6928838.831		E501413.711 N6928851.117
RUNNING CHAINAGE	643.029	80.294	723.324	12.294	735.617	30.000	765.617	90.000	855.617	119.383	975.000	33.834	1008.833

DATUM R.L.													
LAND USE													
DIAMETER													
GRADE													
EMBEDMENT TYPE													
DEPTH TO INVERT	4.319	4.334	4.314	4.325	4.305	4.354							
JUNCTION INVERT LEVEL													
SEWER INVERT LEVEL	23.119	23.275	23.295	23.444	23.464	24.144							
DESIGN SURFACE LEVEL	27.439		27.609		27.770		28.497						
SETOUT	E501363.818 N6928864.233	E501359.137 N6928877.749	E501336.100 N6928890.449	E501231.120 N6928951.194									
RUNNING CHAINAGE	1041.477	27.856	1069.334	26.601	1095.935	121.288	1217.223						

1

Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	24.10.22
02	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	11.10.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales

HORZ 0 10 20 40 60 80 100m — 1 : 1000

VERT 0 1 2 4 6 8 10m — 1 : 100

Surveyor: WOLTER consulting group — Planning, Urban Design, Landscape, Environment, Surveying

Architect: -

Client: Charter Hall

Status: CONCEPT DESIGN ONLY
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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project: 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title: PRELIMINARY SEWER LONGITUDINAL SECTION SHEET 2 OF 5

ARCADIS
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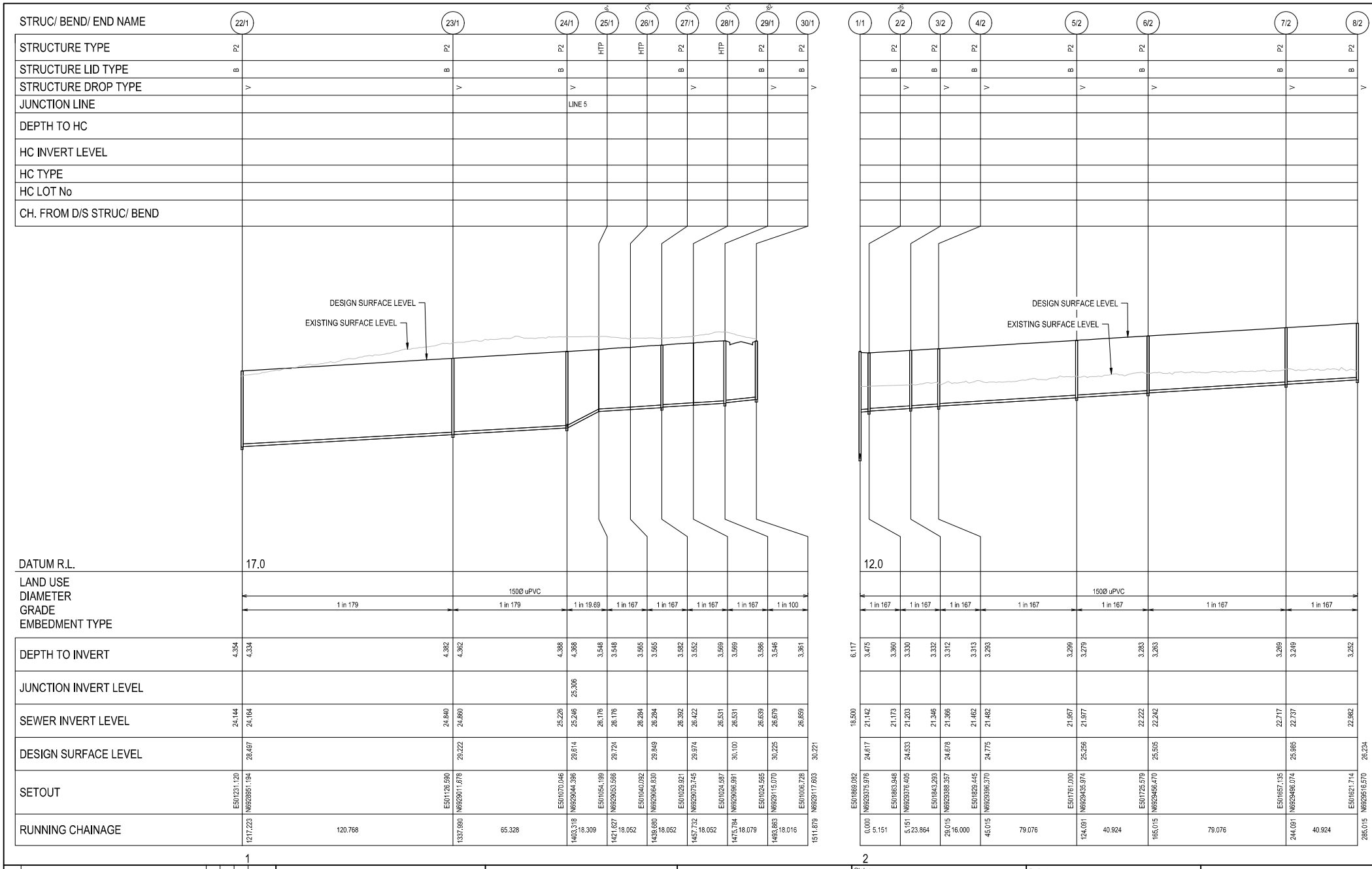
Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334 -	AAP	- WS00OP -	CV	-	SKT	- 009B -	05	

Date Plotted: 28 Aug 2023 - 01:02PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1



Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	24.10.22
02	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	11.10.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales

HORZ 0 10 20 40 60 80 100m

1 : 1000

VERT 0 1 2 4 6 8 10m

1 : 100

Surveyor

WOLTER consulting group

Planning Urban Design Landscape Environment Surveying

Architect

-

Client

Charter Hall

Status

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Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

PRELIMINARY SEWER LONGITUDINAL SECTION SHEET 3 OF 5

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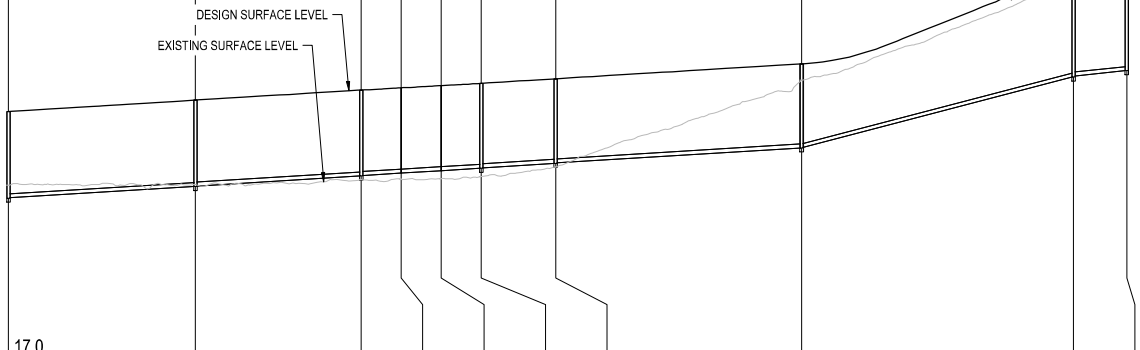
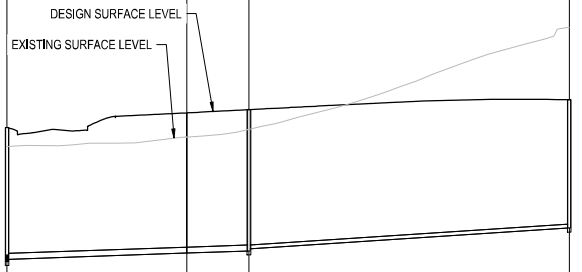
Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334	AAP	WS00OP	CV		SKT	009C	05	

Date Plotted: 28 Aug 2023 - 01:02PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAR-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1





STRUC/ BEND/ END NAME	8/2	9/2	10/2	11/2	12/2	13/2	14/2	15/2	16/2	17/2	13/1	1/3	2/3	3/3
STRUCTURE TYPE	P2	P2	P2	HTP	HTP	P2	P2	P2	P2	P2	P2	P2	P2	P2
STRUCTURE LID TYPE	B	B	B			B	B	B	B	B	B	B	B	B
STRUCTURE DROP TYPE	V	V	V			V	V	V	V	V	V	V	V	V
JUNCTION LINE											LINE 3			
DEPTH TO HC														
HC INVERT LEVEL														
HC TYPE														
HC LOT No														
CH. FROM D/S STRUC/ BEND														
DATUM R.L.	17.0										15.0			
LAND USE						150Ø uPVC							225Ø uPVC	
DIAMETER														
GRADE	1 in 167	1 in 167	1 in 167	1 in 167	1 in 167	1 in 167	1 in 167	1 in 38.62	1 in 100		1 in 286	1 in 286	1 in 154	
EMBEDMENT TYPE														
DEPTH TO INVERT	3.252 / 3.232	3.237 / 3.217	3.222 / 3.202	3.196 / 3.196	3.190 / 3.190	3.185 / 3.165	3.167 / 3.147	3.154 / 3.134	3.282 / 3.242	3.289	5.027 / 4.947	5.252 / 5.252	5.294 / 5.219	4.810
JUNCTION INVERT LEVEL											21.352			
SEWER INVERT LEVEL	22.982 / 23.002	23.422 / 23.442	23.815 / 23.835	23.924 / 23.924	24.015 / 24.015	24.105 / 24.125	24.292 / 24.312	24.865 / 24.865	27.522 / 27.562	27.761	21.272 / 21.352	21.587 / 21.587	21.689 / 21.744	22.524
DESIGN SURFACE LEVEL	26.234	26.659	27.036	27.120	27.205	27.289	27.459	28.018	30.804	31.050	26.299	26.839	26.963	27.334
SETOUT	E501621.714 / N6929516.570	E501561.126 / N6929561.628	E501507.355 / N6929582.735	E501493.970 / N6929589.286	E501479.749 / N6929594.230	E501465.089 / N6929597.410	E501437.546 / N6929601.662	E501346.493 / N6929615.716	E501245.837 / N6929631.254	E501237.928 / N6929612.985	E501694.529 / N6928769.506	E501663.392 / N6928705.580	E501655.526 / N6928683.680	E501614.964 / N6928570.744
RUNNING CHAINAGE	285.015	70.000	355.015	62.120	417.135	14.902	432.037	15.056	447.093	15.001	462.095	27.869	489.964	92.131	582.095	101.849	683.943	19.907	703.850	0.000	67.330	67.330	23.270	90.600	120.000	210.600

2 3

Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	24.10.22
02	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	11.10.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales
HORZ 0 10 20 40 60 80 100m
1 : 1000
VERT 0 1 2 4 6 8 10m
1 : 100

Surveyor
WOLTER consulting group
Planning Urban Design Landscape Environment Surveying

Architect
-

Client
Charter Hall

Status
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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project
4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title
PRELIMINARY SEWER LONGITUDINAL SECTION
SHEET 4 OF 5

ARCADIS
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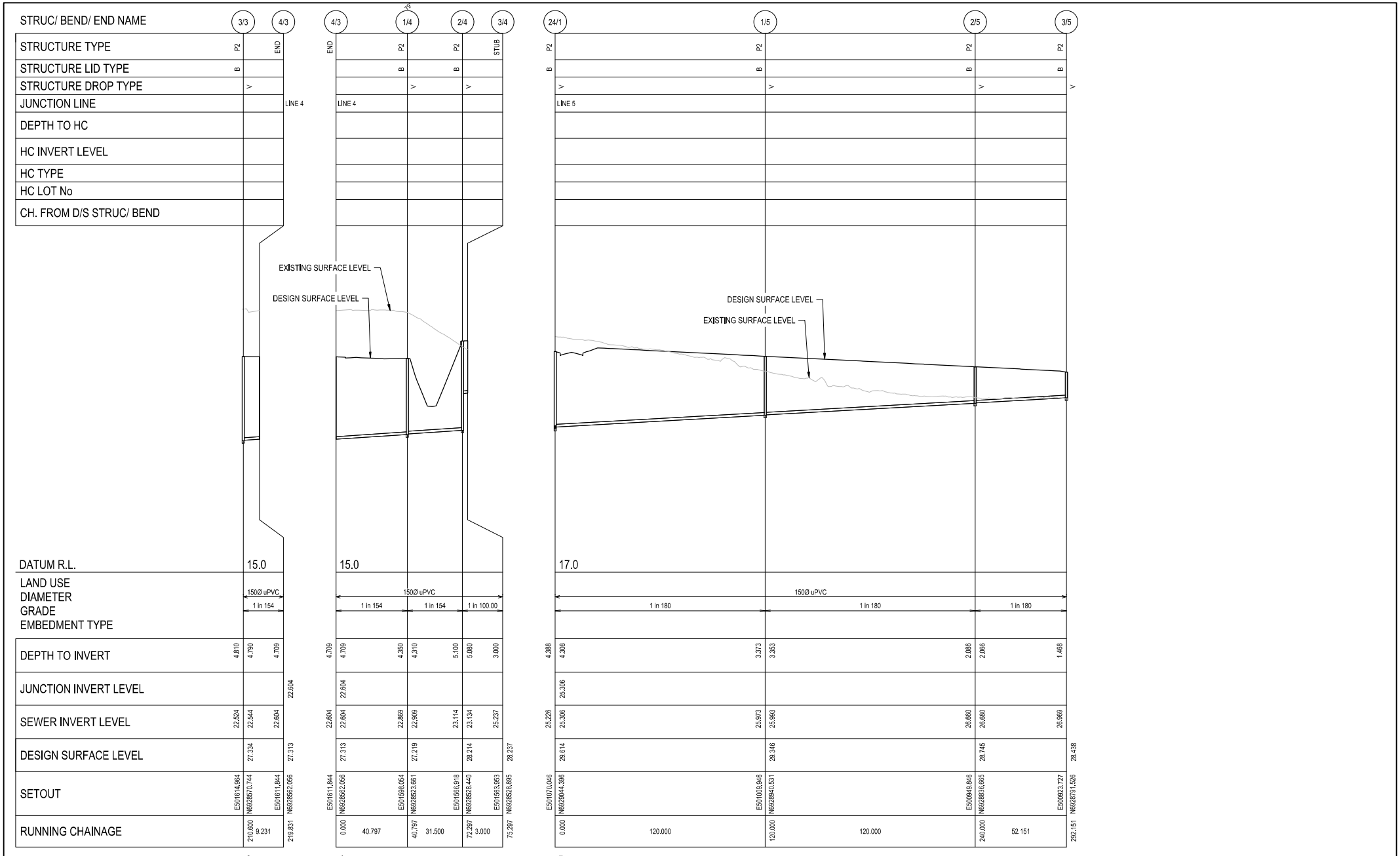
Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334	- AAP	- WS00OP	- CV	- SKT	- 009D	- 05		

Date Plotted: 28 Aug 2023 - 01:02PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAR-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1



Issue	Description	DR	CH	VE	Date
05	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
04	SEWER LONGITUDINAL SECTION UPDATED	AO	SS	GE	03.07.23
03	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	24.10.22
02	SEWER LONGITUDINAL SECTION UPDATED	JG	EP	GE	11.10.22
01	ORIGINAL ISSUE	JG	EP	GE	19.07.22

100mm on Original

Scales

HORZ 0 10 20 40 60 80 100m

1 : 1000

VERT 0 1 2 4 6 8 10m

1 : 100

Surveyor

WOLTER consulting group

Planning Urban Design Landscape Environment Surveying

Architect

-

Client

Charter Hall

Status

CONCEPT DESIGN ONLY

NOT TO BE USED FOR CONSTRUCTION

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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title

PRELIMINARY SEWER LONGITUDINAL SECTION SHEET 5 OF 5

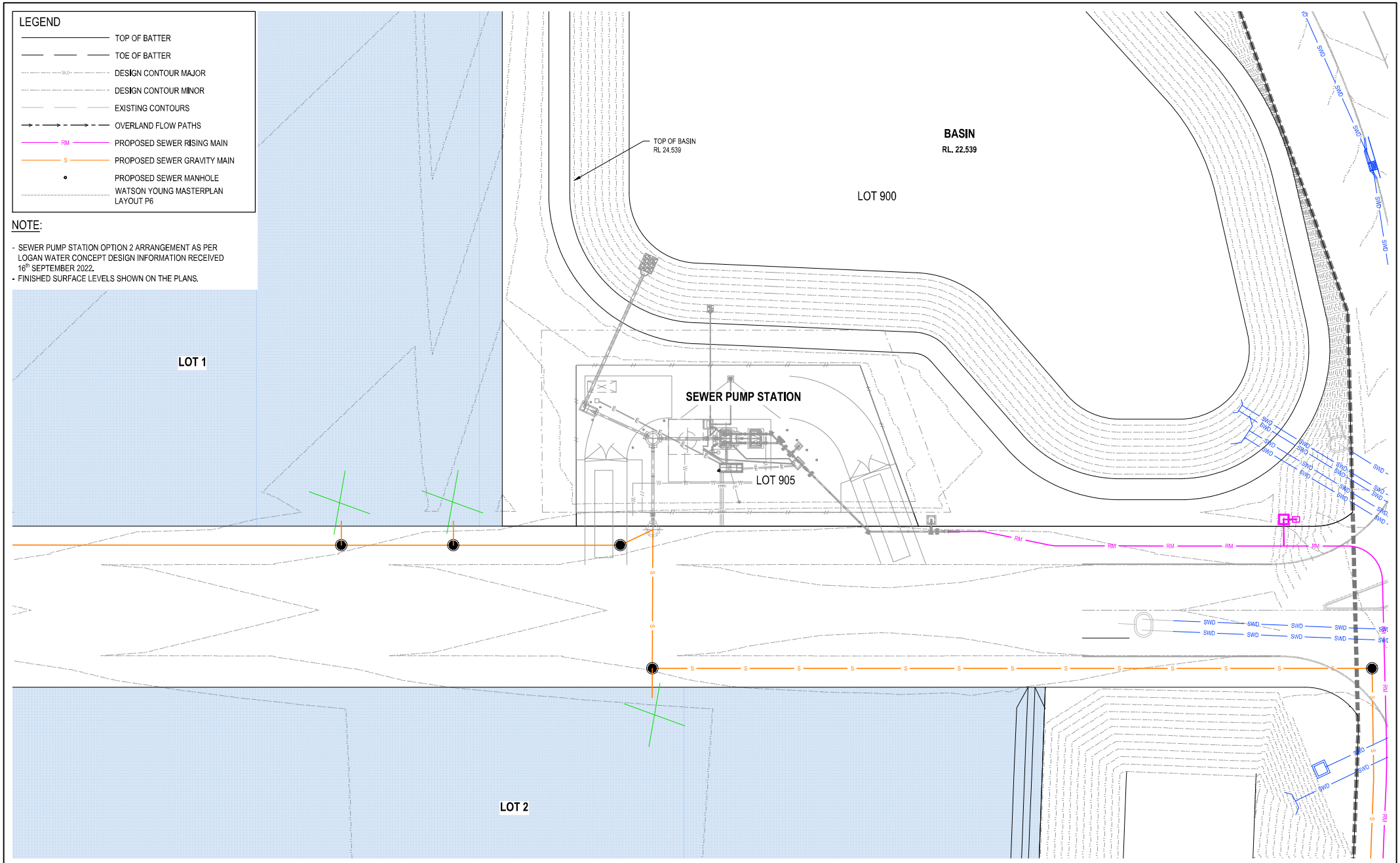
ARCADIS

Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289

Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334 -	AAP	- WS00OP -	CV	-	SKT -	009E -	05	

Date Plotted: 28 Aug 2023 - 01:02PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1



Issue	Description	DR	CH	VE	Date
04	SEWER LAYOUT AND LONGITUDINAL SECTION UPDATED	GP	TF	GE	25.08.23
03	UDPATED SEWER PUMP STATION LAYOUT	AO	SS	GE	03.07.23
02	UDPATED SEWER PUMP STATION LAYOUT	JG	EP	GE	24.10.22
01	ORIGINAL ISSUE	JG	EP	GE	23.08.22

Scales

0 5 10 15 20 25m

1 : 250

100mm on Original

Surveyor

WOLTER consulting group

Planning Urban Design Landscape Environment Surveying

Architect

-

Client

Charter Hall

Status

CONCEPT DESIGN ONLY
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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	S.SEM	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project

4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

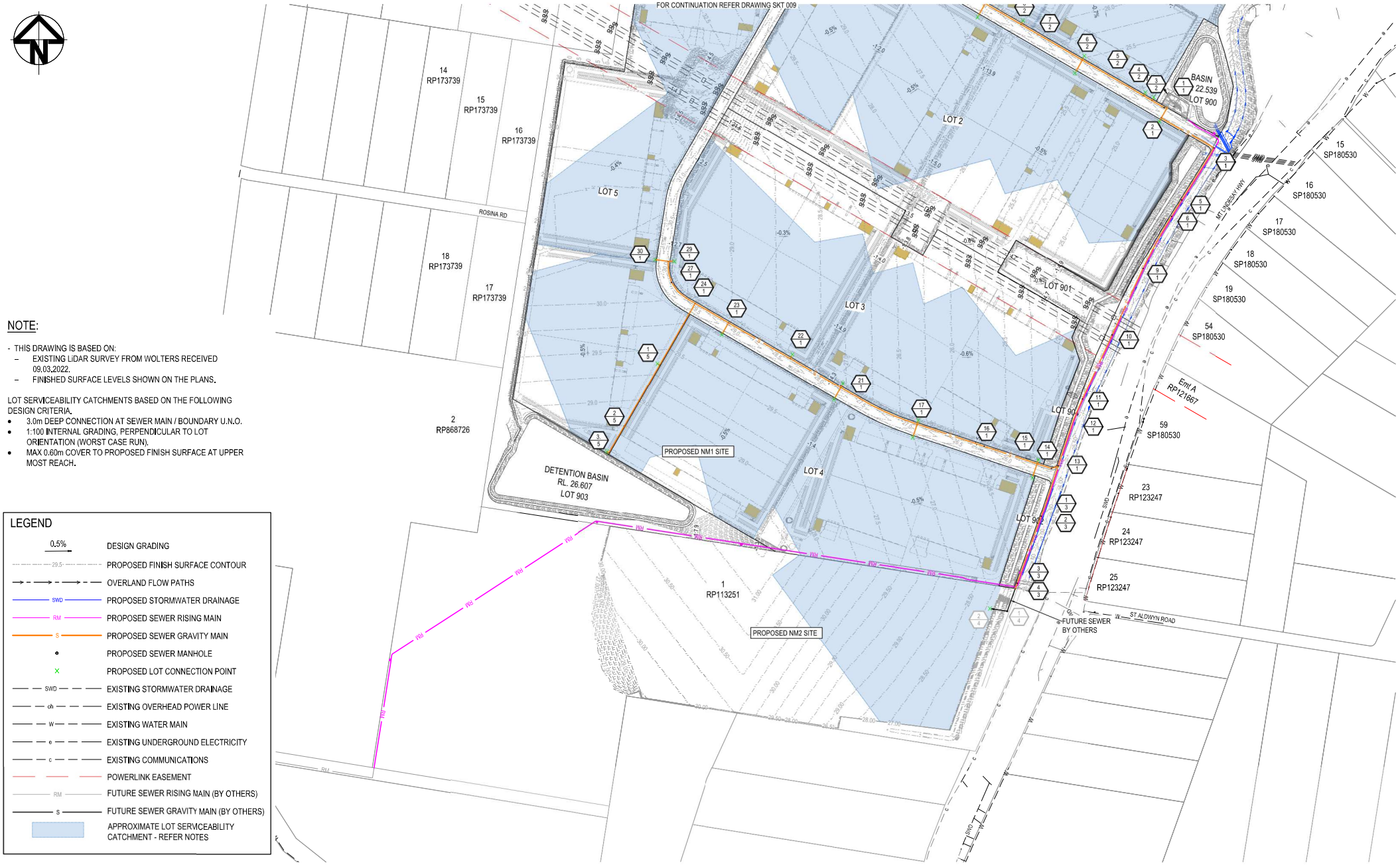
Title

SEWER PUMP STATION SKETCH PLAN

ARCADIS
Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

Project No.	Folder Prefix	Zone	Stage	Phase	Discipline	Type	Drawing No.	Issue
30109334	AAP	WS00OP	CV	SKT	009F		04	V1

Date Plotted: 28 Aug 2023 - 01:02PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-009-SewerSketchPlan.dwg



NOTE:

- THIS DRAWING IS BASED ON:
  - EXISTING LIDAR SURVEY FROM WOLTERS RECEIVED 09.03.2022.
  - FINISHED SURFACE LEVELS SHOWN ON THE PLANS.

LOT SERVICEABILITY CATCHMENTS BASED ON THE FOLLOWING DESIGN CRITERIA.

- 3.0m DEEP CONNECTION AT SEWER MAIN / BOUNDARY U.N.O.
- 1:100 INTERNAL GRADING, PERPENDICULAR TO LOT ORIENTATION (WORST CASE RUN).
- MAX 0.60m COVER TO PROPOSED FINISH SURFACE AT UPPER MOST REACH.

LEGEND

0.5%	DESIGN GRADING
29.5	PROPOSED FINISH SURFACE CONTOUR
	OVERLAND FLOW PATHS
SWD	PROPOSED STORMWATER DRAINAGE
RM	PROPOSED SEWER RISING MAIN
S	PROPOSED SEWER GRAVITY MAIN
	PROPOSED SEWER MANHOLE
	PROPOSED LOT CONNECTION POINT
SWD	EXISTING STORMWATER DRAINAGE
oh	EXISTING OVERHEAD POWER LINE
W	EXISTING WATER MAIN
e	EXISTING UNDERGROUND ELECTRICITY
c	EXISTING COMMUNICATIONS
	POWERLINK EASEMENT
RM	FUTURE SEWER RISING MAIN (BY OTHERS)
S	FUTURE SEWER GRAVITY MAIN (BY OTHERS)
	APPROXIMATE LOT SERVICEABILITY CATCHMENT - REFER NOTES

Issue	Description	DR	CH	VE	Date
01	ORIGINAL ISSUE	GP	TF	GE	25.08.23

100mm on Original

Scales

0 30 60 120 180 240 300m

1 : 3000

Surveyor: WOLTER consulting group (Planning, Urban Design, Landscape, Environment, Surveying)

Architect: -

Client: Charter Hall

Status: CONCEPT DESIGN ONLY
NOT TO BE USED FOR CONSTRUCTION

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Original Issue Signatures

Drawn	A.OSORIO	Original Size	A1
Designed	G.PUMNUT	Height Datum	AHD
Project Manager	B.KITSON	Grid	
Verified	G.ELLIS		

Project: 4499-4651 MOUNT LINDESAY HIGHWAY, NORTH MACLEAN

Title: PRELIMINARY SEWER SKETCH PLAN SHEET 2

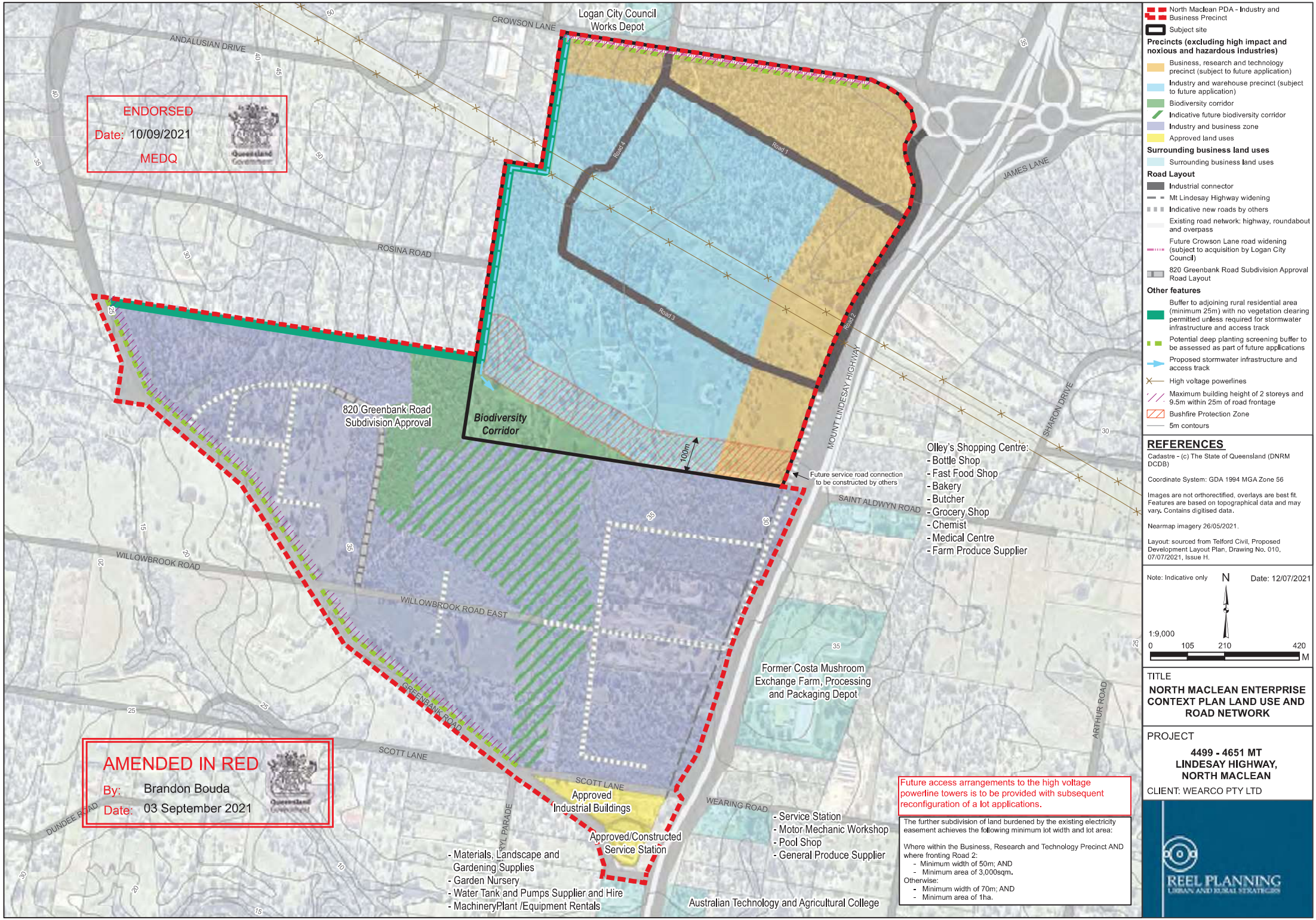
ARCADIS
Arcadis Australia Pacific Pty Limited
Level 35, 111 Eagle Street
BRISBANE QLD 4000
ABN 76 104 485 289
Tel No: +61 7 3337 0000
www.arcadis.com/au

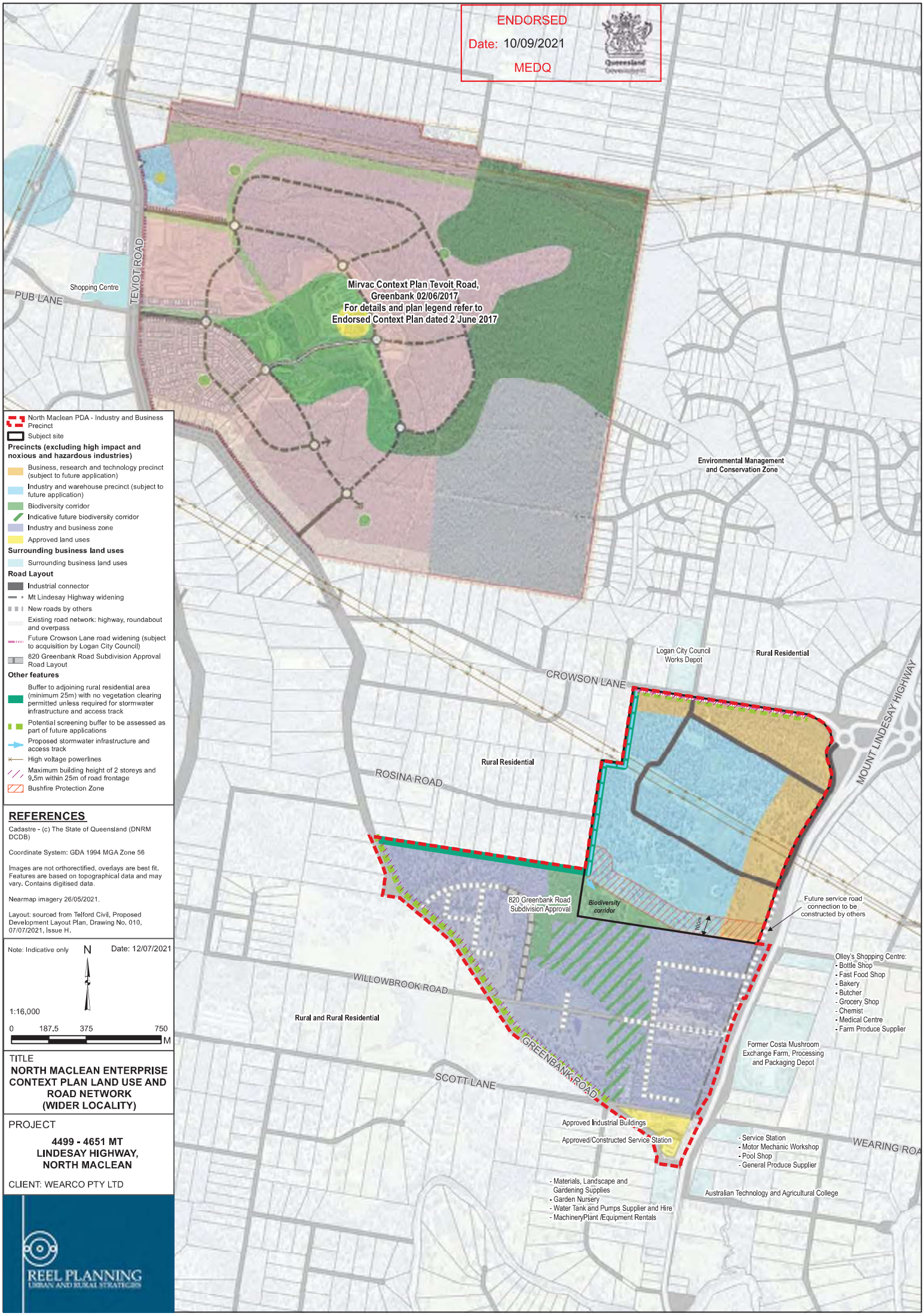
Project No.	Folder Prefix	Zone / Stage / Phase	Discipline	Type	Drawing No.	Issue
30109334 -	AAP	- WS00OP -	CV	- SKT -	009G -	01

Date Plotted: 28 Aug 2023 - 04:20PM File Name: C:\Users\gp117798\DC\ACCDocs\Arcadis\AAU-30109334-4499-4651 Mount Lindesay Highway\Project Files\01_WIP\01_Package-00_Civil_CV\Drawings\30109334-AAP-WS00OP-CV-SKT-009-SewerSketchPlan.dwg V1

APPENDIX C

North Maclean Context Plan prepared by Reel Planning


ENDORSED
Date: 10/09/2021
MEDQ
AMENDED IN RED
By: Brandon Bouda
Date: 03 September 2021
Logan City Council Works Depot
CROWSON LANE
ANDALUSIAN DRIVE
ROSINA ROAD
820 Greenbank Road Subdivision Approval
Biodiversity Corridor
100m
Road 1
Road 2
Road 3
Road 4
MOUNT LINDESAY HIGHWAY
JAMES LANE
SHARON DRIVE
SAINT ALDWYN ROAD
Future service road connection to be constructed by others
Olley's Shopping Centre:
- Bottle Shop
- Fast Food Shop
- Bakery
- Butcher
- Grocery Shop
- Chemist
- Medical Centre
- Farm Produce Supplier
WILLOWBROOK ROAD
WILLOWBROOK ROAD EAST
GREENBANK ROAD
SCOTT LANE
Former Costa Mushroom Exchange Farm, Processing and Packaging Depot
ARTHUR ROAD
DUNDEE ROAD
LYL PARADE
SCOTT LANE
Approved Industrial Buildings
Approved/Constructed Service Station
WEARING ROAD
- Materials, Landscape and Gardening Supplies
- Garden Nursery
- Water Tank and Pumps Supplier and Hire
- MachineryPlant /Equipment Rentals
- Service Station
- Motor Mechanic Workshop
- Pool Shop
- General Produce Supplier
Australian Technology and Agricultural College
Future access arrangements to the high voltage powerline towers is to be provided with subsequent reconfiguration of a lot applications.
The further subdivision of land burdened by the existing electricity easement achieves the following minimum lot width and lot area:
Where within the Business, Research and Technology Precinct AND where fronting Road 2:
- Minimum width of 50m; AND
- Minimum area of 3,000sqm.
Otherwise:
- Minimum width of 70m; AND
- Minimum area of 1ha.
North Maclean PDA - Industry and Business Precinct
Subject site
Precincts (excluding high impact and noxious and hazardous industries)
Business, research and technology precinct (subject to future application)
Industry and warehouse precinct (subject to future application)
Biodiversity corridor
Indicative future biodiversity corridor
Industry and business zone
Approved land uses
Surrounding business land uses
Surrounding business land uses
Road Layout
Industrial connector
Mt Lindesay Highway widening
Indicative new roads by others
Existing road network: highway, roundabout and overpass
Future Crowson Lane road widening (subject to acquisition by Logan City Council)
820 Greenbank Road Subdivision Approval Road Layout
Other features
Buffer to adjoining rural residential area (minimum 25m) with no vegetation clearing permitted unless required for stormwater infrastructure and access track
Potential deep planting screening buffer to be assessed as part of future applications
Proposed stormwater infrastructure and access track
High voltage powerlines
Maximum building height of 2 storeys and 9.5m within 25m of road frontage
Bushfire Protection Zone
5m contours
REFERENCES
Cadastre - (c) The State of Queensland (DNRM DCDB)
Coordinate System: GDA 1994 MGA Zone 56
Images are not orthorectified, overlays are best fit. Features are based on topographical data and may vary. Contains digitised data.
Nearmap imagery 26/05/2021.
Layout: sourced from Telford Civil, Proposed Development Layout Plan, Drawing No. 010, 07/07/2021, Issue H.
Note: Indicative only
N
Date: 12/07/2021
1:9,000
0 105 210 420
M
TITLE
NORTH MACLEAN ENTERPRISE CONTEXT PLAN LAND USE AND ROAD NETWORK
PROJECT
4499 - 4651 MT LINDESAY HIGHWAY, NORTH MACLEAN
CLIENT: WEARCO PTY LTD
REEL PLANNING
URBAN AND RURAL STRATEGIES


ENDORSED
Date: 10/09/2021
MEDQ
Mirvac Context Plan Tevoit Road, Greenbank 02/06/2017
For details and plan legend refer to
Endorsed Context Plan dated 2 June 2017
TEVIOT ROAD
PUB LANE
Shopping Centre
Environmental Management and Conservation Zone
Logan City Council Works Depot
Rural Residential
CROWSON LANE
MOUNT LINDESAY HIGHWAY
ROSINA ROAD
820 Greenbank Road Subdivision Approval
Biodiversity corridor
Future service road connection to be constructed by others
WILLOWBROOK ROAD
Rural and Rural Residential
GREENBANK ROAD
SCOTT LANE
Olley's Shopping Centre:
- Bottle Shop
- Fast Food Shop
- Bakery
- Butcher
- Grocery Shop
- Chemist
- Medical Centre
- Farm Produce Supplier
Former Costa Mushroom Exchange Farm, Processing and Packaging Depot
Approved Industrial Buildings
Approved/Constructed Service Station
- Service Station
- Motor Mechanic Workshop
- Pool Shop
- General Produce Supplier
- Materials, Landscape and Gardening Supplies
- Garden Nursery
- Water Tank and Pumps Supplier and Hire
- MachineryPlant /Equipment Rentals
Australian Technology and Agricultural College
WEARING ROA
North Maclean PDA - Industry and Business Precinct
Subject site
Precincts (excluding high impact and noxious and hazardous industries)
Business, research and technology precinct (subject to future application)
Industry and warehouse precinct (subject to future application)
Biodiversity corridor
Indicative future biodiversity corridor
Industry and business zone
Approved land uses
Surrounding business land uses
Surrounding business land uses
Road Layout
Industrial connector
Mt Lindesay Highway widening
New roads by others
Existing road network: highway, roundabout and overpass
Future Crowson Lane road widening (subject to acquisition by Logan City Council)
820 Greenbank Road Subdivision Approval Road Layout
Other features
Buffer to adjoining rural residential area (minimum 25m) with no vegetation clearing permitted unless required for stormwater infrastructure and access track
Potential screening buffer to be assessed as part of future applications
Proposed stormwater infrastructure and access track
High voltage powerlines
Maximum building height of 2 storeys and 9.5m within 25m of road frontage
Bushfire Protection Zone
REFERENCES
Cadastre - (c) The State of Queensland (DNRM DCDB)
Coordinate System: GDA 1994 MGA Zone 56
Images are not orthorectified, overlays are best fit. Features are based on topographical data and may vary. Contains digitised data.
Nearmap imagery 26/05/2021.
Layout: sourced from Telford Civil, Proposed Development Layout Plan, Drawing No. 010, 07/07/2021, Issue H.
Note: Indicative only
N
Date: 12/07/2021
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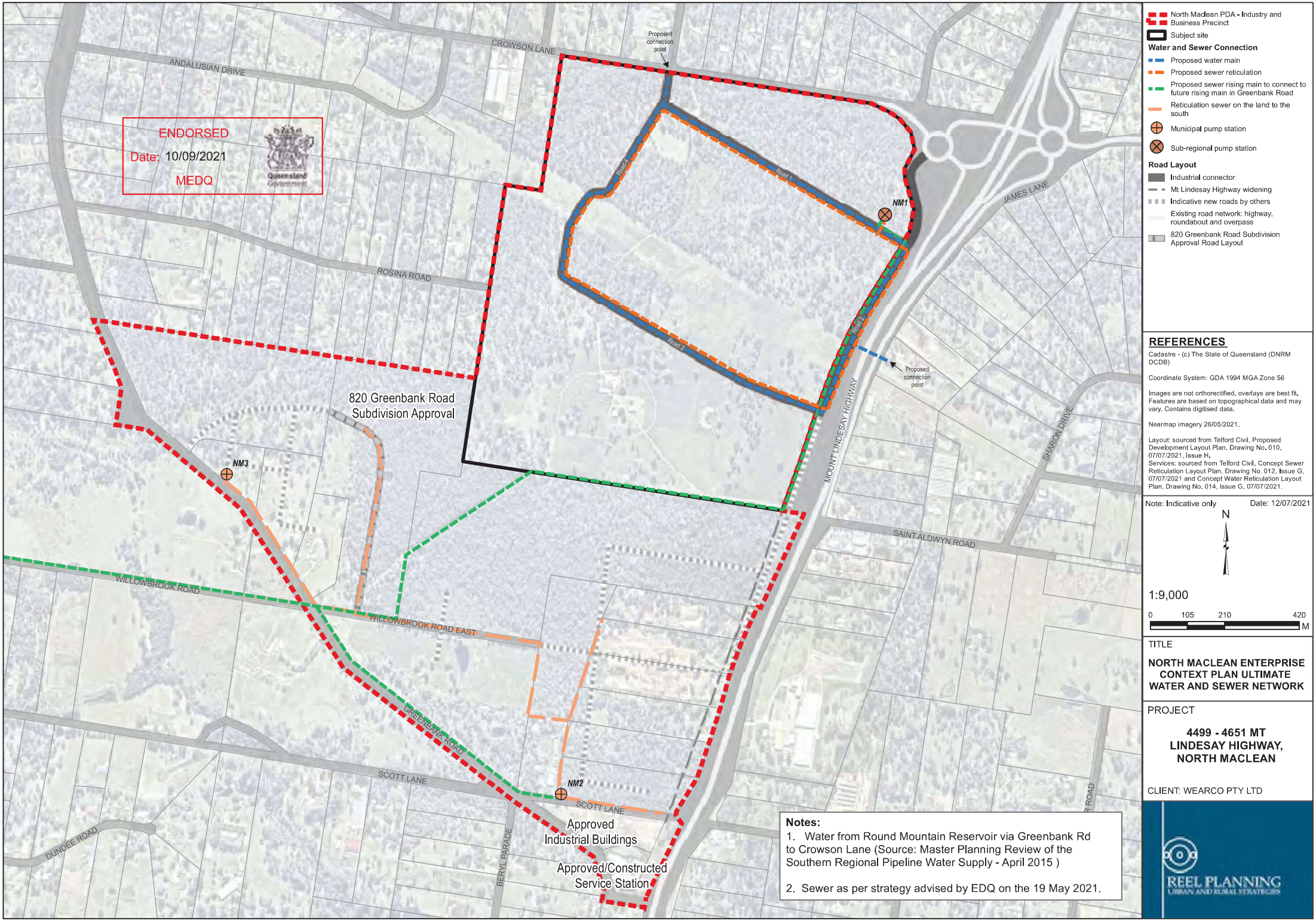
TITLE
NORTH MACLEAN ENTERPRISE CONTEXT PLAN LAND USE AND ROAD NETWORK (WIDER LOCALITY)
PROJECT
4499 - 4651 MT LINDESAY HIGHWAY, NORTH MACLEAN
CLIENT: WEARCO PTY LTD
REEL PLANNING
URBAN AND RURAL STRATEGIES



REFERENCES

Cadastre - (c) The State of Queensland (DNRM DCDB)

Coordinate System: GDA 1994 MGA Zone 56

Images are not orthorectified, overlays are best fit. Features are based on topographical data and may vary. Contains digitised data.

Nearmap imagery 26/05/2021.

Layout: sourced from Telford Civil, Proposed Development Layout Plan, Drawing No. 010, 07/07/2021, Issue H.
Services: sourced from Telford Civil, Concept Sewer Reticulation Layout Plan, Drawing No. 012, Issue G, 07/07/2021 and Concept Water Reticulation Layout Plan, Drawing No. 014, Issue G, 07/07/2021.

Note: Indicative only

Date: 12/07/2021

N

1:9,000

0 105 210 420 M

TITLE

NORTH MACLEAN ENTERPRISE CONTEXT PLAN ULTIMATE WATER AND SEWER NETWORK

PROJECT

4499 - 4651 MT LINDESAY HIGHWAY, NORTH MACLEAN

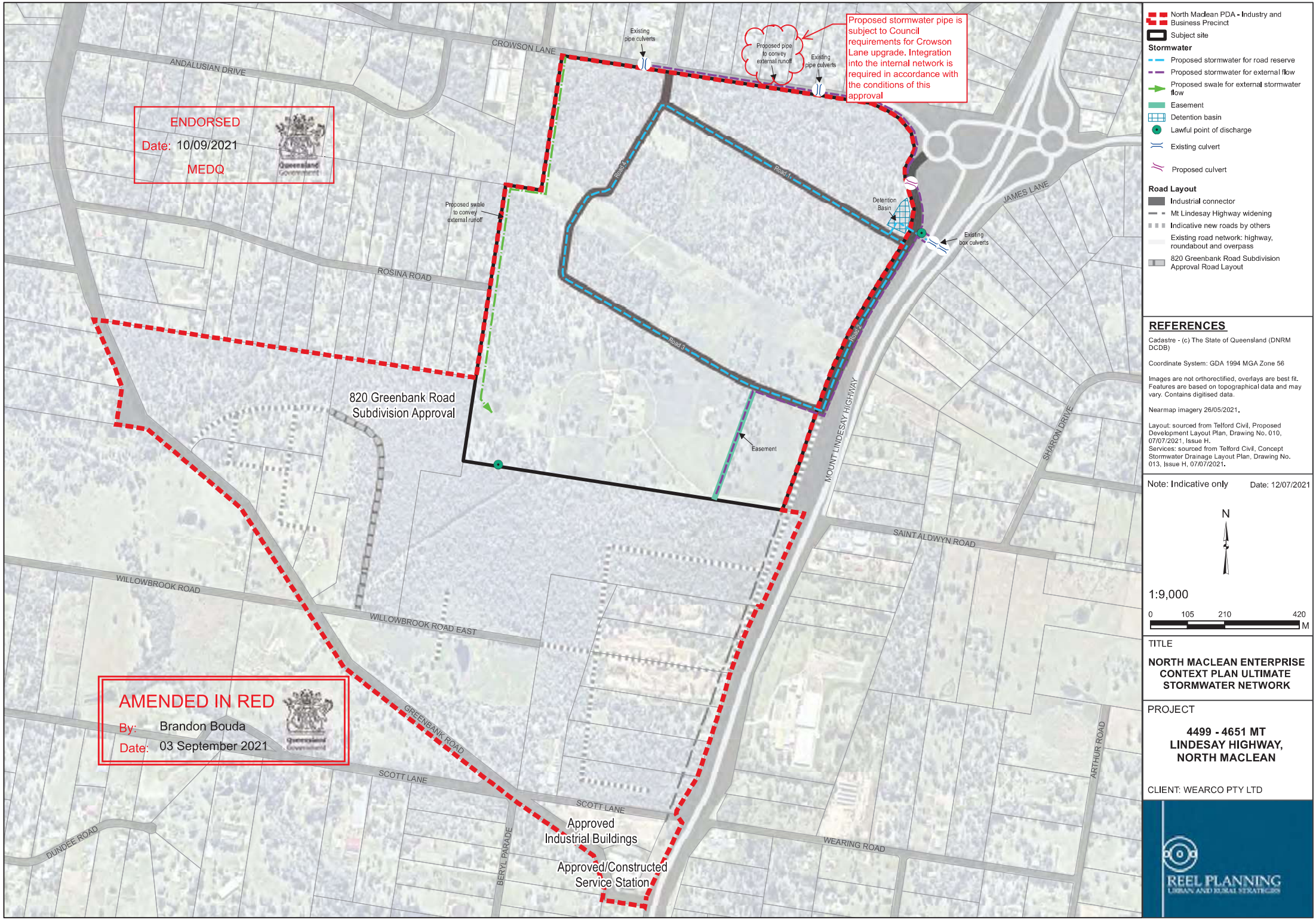
CLIENT: WEARCO PTY LTD

Notes:

1. Water from Round Mountain Reservoir via Greenbank Rd to Crowson Lane (Source: Master Planning Review of the Southern Regional Pipeline Water Supply - April 2015)

2. Sewer as per strategy advised by EDQ on the 19 May 2021.

REEL PLANNING
URBAN AND RURAL STRATEGISTS


ENDORSED
Date: 10/09/2021
MEDQ
AMENDED IN RED
By: Brandon Bouda
Date: 03 September 2021
Proposed stormwater pipe is subject to Council requirements for Crowson Lane upgrade. Integration into the internal network is required in accordance with the conditions of this approval
Existing pipe culverts
Proposed pipe to convey external runoff
Existing pipe culverts
Proposed swale to convey external runoff
Detention Basin
Existing box culverts
Road 1
Road 2
Road 3
Road 4
Easement
820 Greenbank Road Subdivision Approval
Approved Industrial Buildings
Approved/Constructed Service Station
CROWSON LANE
ANDALUSIAN DRIVE
ROSINA ROAD
JAMES LANE
MOUNT LINDESAY HIGHWAY
SHARON DRIVE
SAINT ALDWYN ROAD
WILLOWBROOK ROAD
WILLOWBROOK ROAD EAST
GREENBANK ROAD
SCOTT LANE
SCOTT LANE
DUNDEE ROAD
BERYL PARADE
WEARING ROAD
ARTHUR ROAD
North Maclean PDA - Industry and Business Precinct
Subject site
Stormwater
Proposed stormwater for road reserve
Proposed stormwater for external flow
Proposed swale for external stormwater flow
Easement
Detention basin
Lawful point of discharge
Existing culvert
Proposed culvert
Road Layout
Industrial connector
Mt Lindesay Highway widening
Indicative new roads by others
Existing road network: highway, roundabout and overpass
820 Greenbank Road Subdivision Approval Road Layout
REFERENCES
Cadastre - (c) The State of Queensland (DNRM DCDB)
Coordinate System: GDA 1994 MGA Zone 56
Images are not orthorectified, overlays are best fit. Features are based on topographical data and may vary. Contains digitised data.
Nearmap imagery 26/05/2021.
Layout: sourced from Telford Civil, Proposed Development Layout Plan, Drawing No. 010, 07/07/2021, Issue H.
Services: sourced from Telford Civil, Concept Stormwater Drainage Layout Plan, Drawing No. 013, Issue H, 07/07/2021.
Note: Indicative only
Date: 12/07/2021
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0 105 210 420
M
TITLE
NORTH MACLEAN ENTERPRISE CONTEXT PLAN ULTIMATE STORMWATER NETWORK
PROJECT
4499 - 4651 MT LINDESAY HIGHWAY, NORTH MACLEAN
CLIENT: WEARCO PTY LTD
REEL PLANNING
URBAN AND RURAL STRATEGIES

APPENDIX D

BYDA plans

WARNING: This document is confidential and may also be privileged. Confidentiality nor privilege is not waived or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from our records is believed to be accurate, but no responsibility is assumed for any error or omission. Optus Plans and information supplied are valid for 30 days from the date of issue. If this timeline has elapsed, please raise a new enquiry.

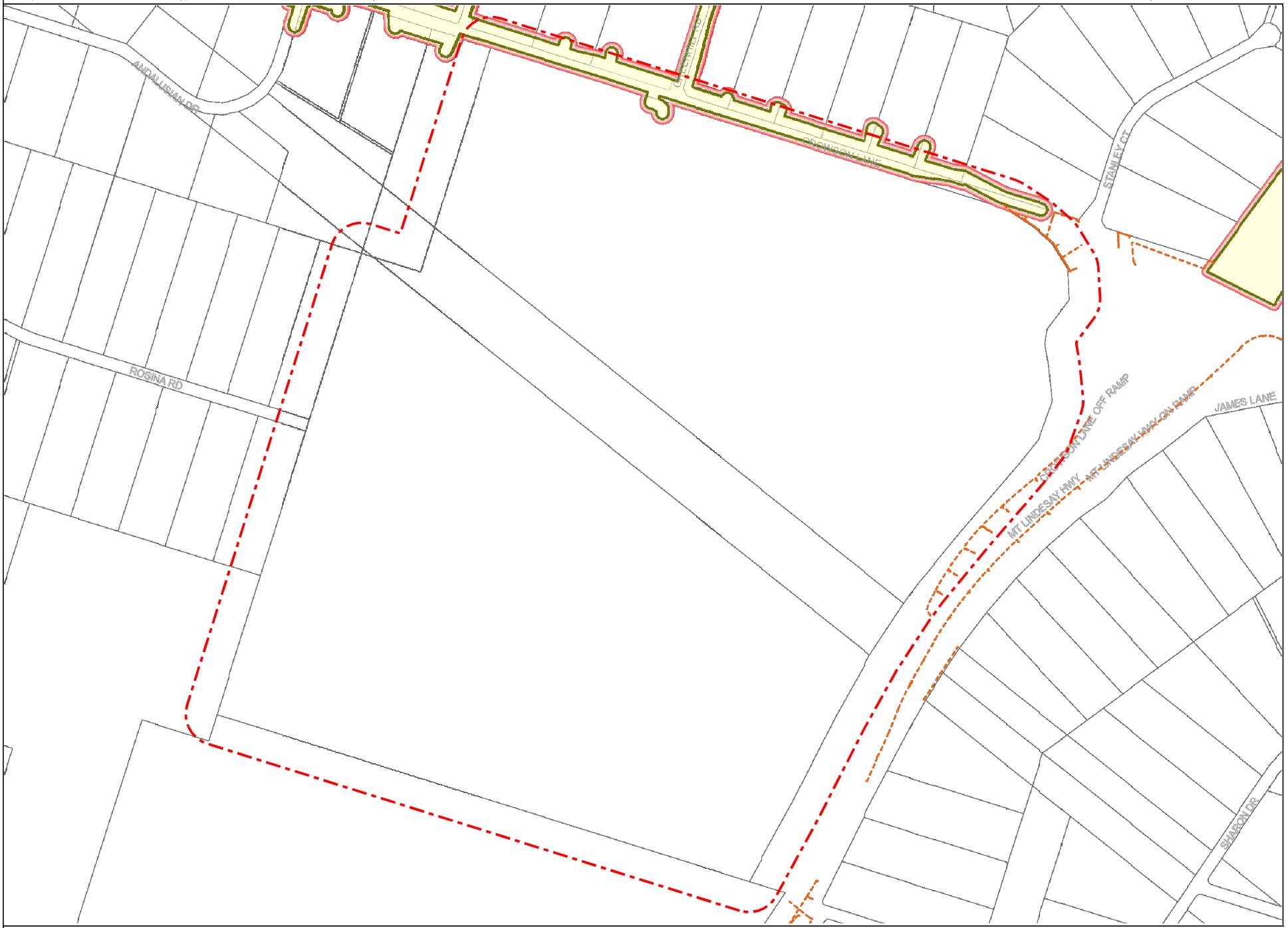
Sequence Number: 230345697

Date Generated: 03 Oct 2023

For all Optus DBYD plan enquiries –
Email: Fibre.Locations@optus.net.au
For urgent onsite assistance contact 1800 505 777
Optus Limited ACN 052 833 208

All underground cables shall be treated as being energised. Where a cable is located that is not represented on the ENERGEX BYDA map, then ENERGEX shall be contacted immediately.

For Emergency Situations please call 13 19 62



energex

BYDA

Sequence: 230346245
Date: 03/10/2023

Scale: 1:5738
OVERVIEW

For a full list of Map Symbols, please refer to the supplied BYDA Symbology Legend page

AS5488 Category "D" Plan

N
W E
S

DISCLAIMER: While reasonable measures have been taken to ensure the accuracy of the information contained in this plan response, neither Energex nor PelicanCorp shall have any liability whatsoever in relation to any loss, damage, cost or expense arising from the use of this plan response or the information contained in it or the completeness or accuracy of such information. Use of such information is subject to and constitutes acceptance of these terms.

This output provides details of the ENERGEX electrical network. As variations map exist no responsibility is incurred by ENERGEX for the accuracy or completeness of the information provided. Exact positions of cables and electrical connectivity should be confirmed on site.

Before You Dig Australia (BYDA)

Asset Location Response

PO Box 3226 Logan City DC QLD 4114 • 150 Wembley Road, Logan Central
p (07) 3412 3412 • **e** council@logan.qld.gov.au • www.logan.qld.qov.au • ABN 21-627-796 435

Ali Reza Haghjoo
8 Windmill Street
Millers Point NSW 2000
ali.haghjoo@costinroe.com.au

Logan City Council has been advised that you have placed an enquiry through the Before You Dig Australia service. Our records indicate the enquiry with the following details are affecting Logan City Council asset(s).

Enquiry Details	
Sequence Number	230346248
Enquiry Date	03/10/2023 09:53
Response	**AFFECTED**
Address	Oaklands 4499-4651 Mount Lindesay Hwy North Maclean
Location in Road	Nature Strip,Road,Footpath
Activity	Planning and Design,Subdivision

Please review plans attached and contact Logan City Council prior to commencing works:

Logan City Council now provides a limited amount of As-Constructed and Drainage Plans on-line, click on the *Logan City As-Constructed Plans* link and type in the property address you are seeking. Unfortunately, not all properties will have plan records accessible on-line. The following options are available to customers should a record not be available:

- For **As Constructed Private Sewer/Roofwater *(Inside Properties)***
  Contact *Development Assessment, Building & Plumbing*
  p: (07) 3412 5269
  Alternatively visit our Website Link to the relevant PS1 or PS2 forms:
  Logan City As-Constructed Plans

- For **As Constructed Private Sewer/Water/Stormwater *(Outside Properties)***
  Contact *Road Infrastructure Planning*
  p: (07) 3412 5282
  Alternatively visit our Website Link for PS3 forms:
  Logan City As-Constructed Plans

If you need more assistance please call us on 07 3412 3412 or email us at council@logan.qld.gov.au.

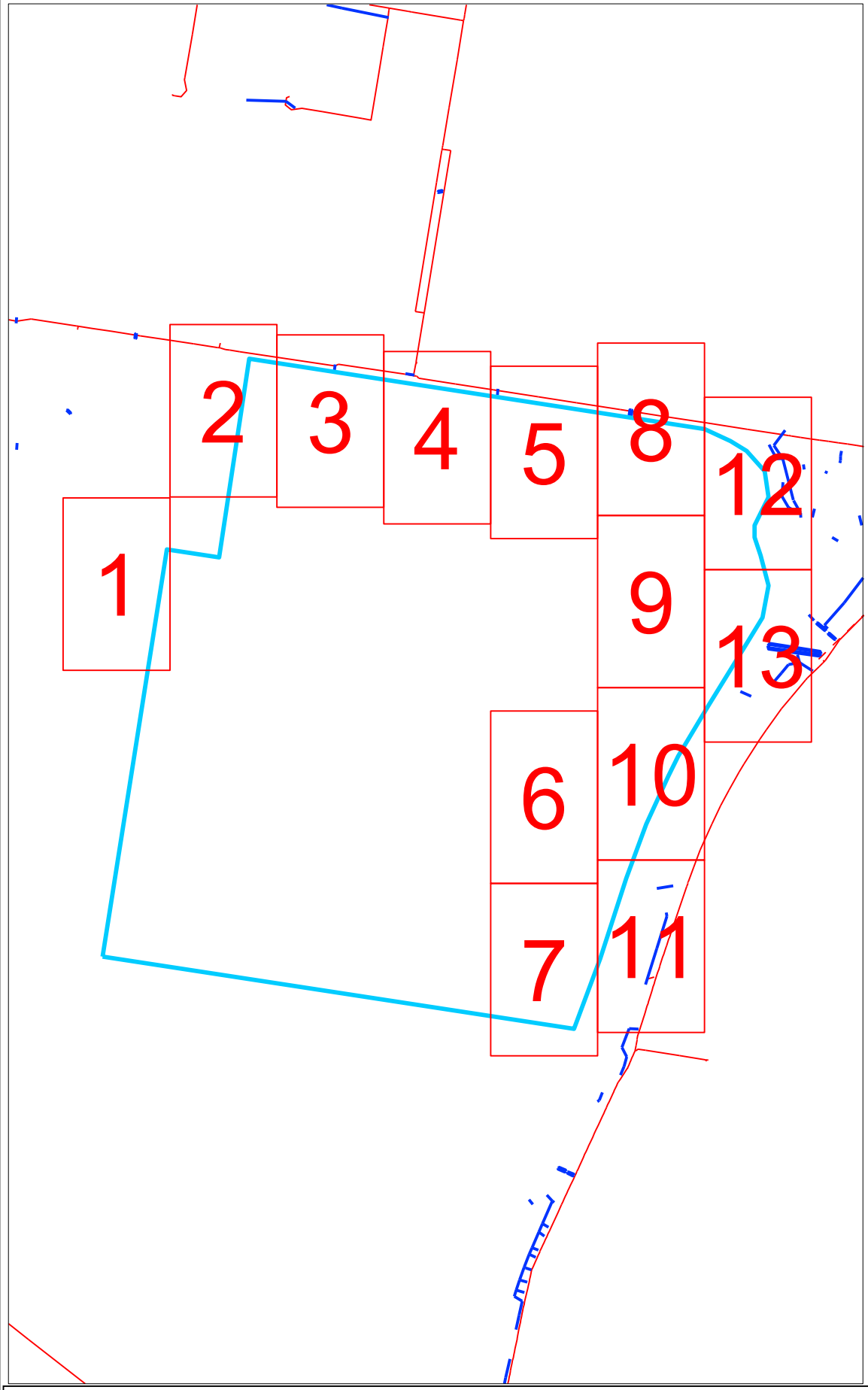
Disclaimer: This document is confidential to the addressee and may also be privileged, and neither confidentiality nor privilege is waived, lost or destroyed by virtue of it being transmitted to an incorrect addressee. Unauthorised use of the contents is therefore strictly prohibited. Any information contained in this document that has been extracted from Council's records is believed to be accurate, but no responsibility is assumed for any error or omission. Council will only accept responsibility for information contained under official letterhead and duly signed by, or on behalf of, Chief Executive Officer.

Logan City Council's infrastructure dates back over many years and may include manufactured materials containing asbestos. You are solely responsible for ensuring that appropriate care is taken at all times and that you comply with all mandatory requirements relating to such matters, including but not limited to "workplace health and safety".

Overview Map

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:8000

0 0.1km

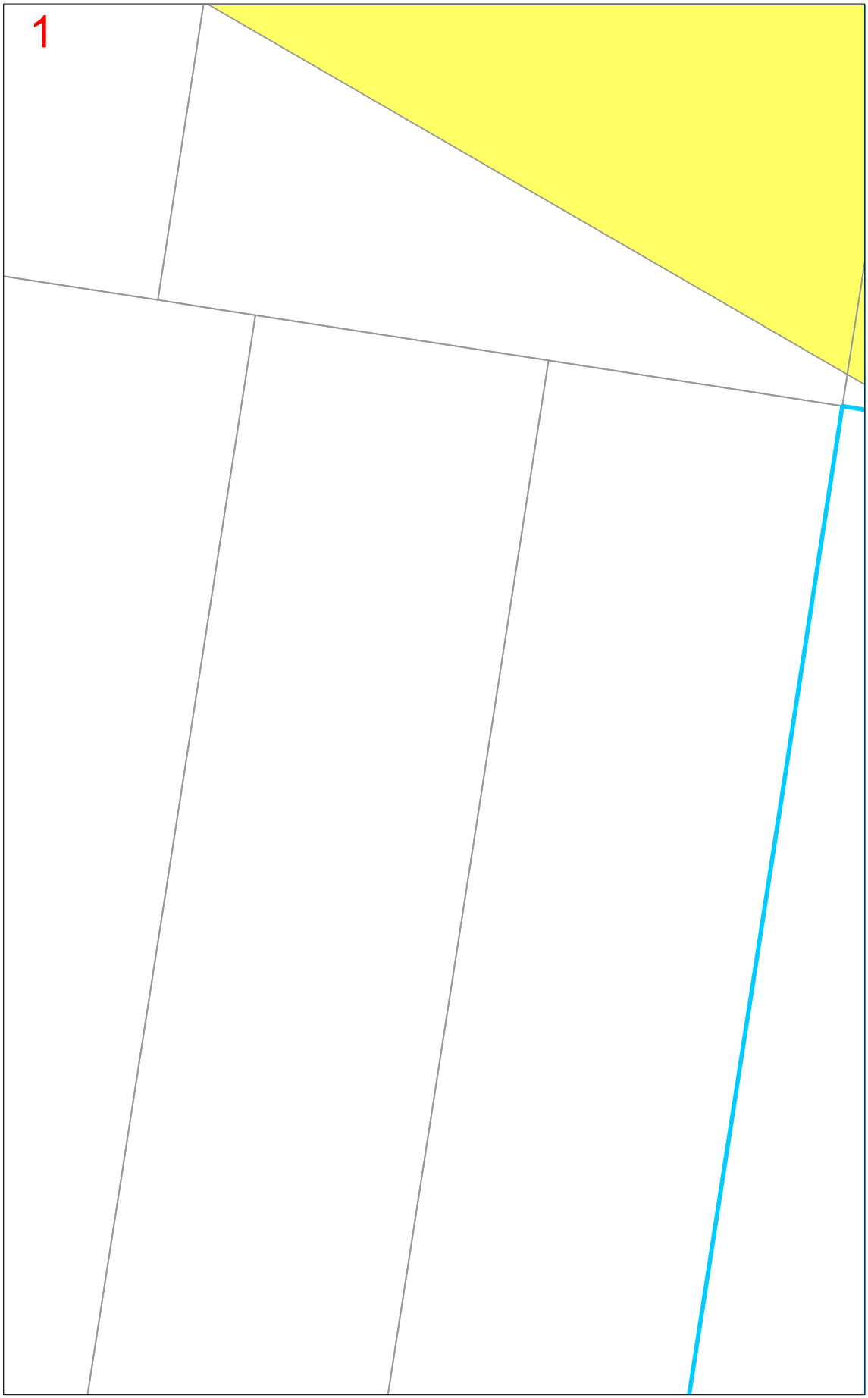
Disclaimer: The plans are indicative only and while all reasonable care has been taken in producing this information, Logan City Council does not warrant the accuracy, completeness or currency of this information and accepts no responsibility for, or in connection with any loss or damage suffered as a result of any inaccuracies, errors or omissions or your reliance on this information. Base material reproduced with permission of the Director-General, Department of Natural Resources and Mines. The State of Queensland (Department of Natural Resources and Mines).

Logan City Council's infrastructure dates back over many years and may include manufactured materials containing asbestos. You are solely responsible for ensuring that appropriate care is taken at all times and that you comply with all mandatory requirements relating to such matters, including but not limited to "workplace health and safety".

Map 1

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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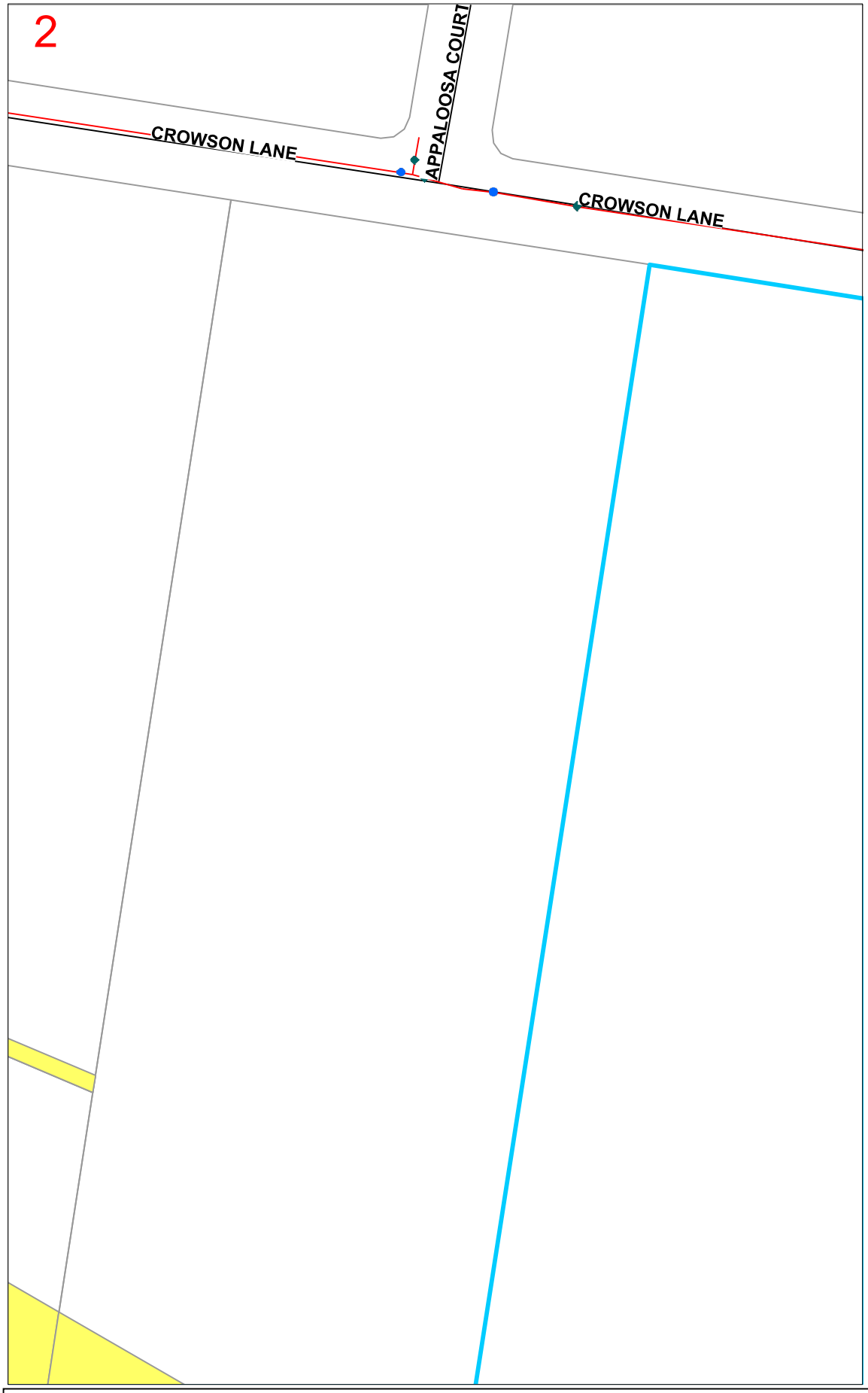
Map 2

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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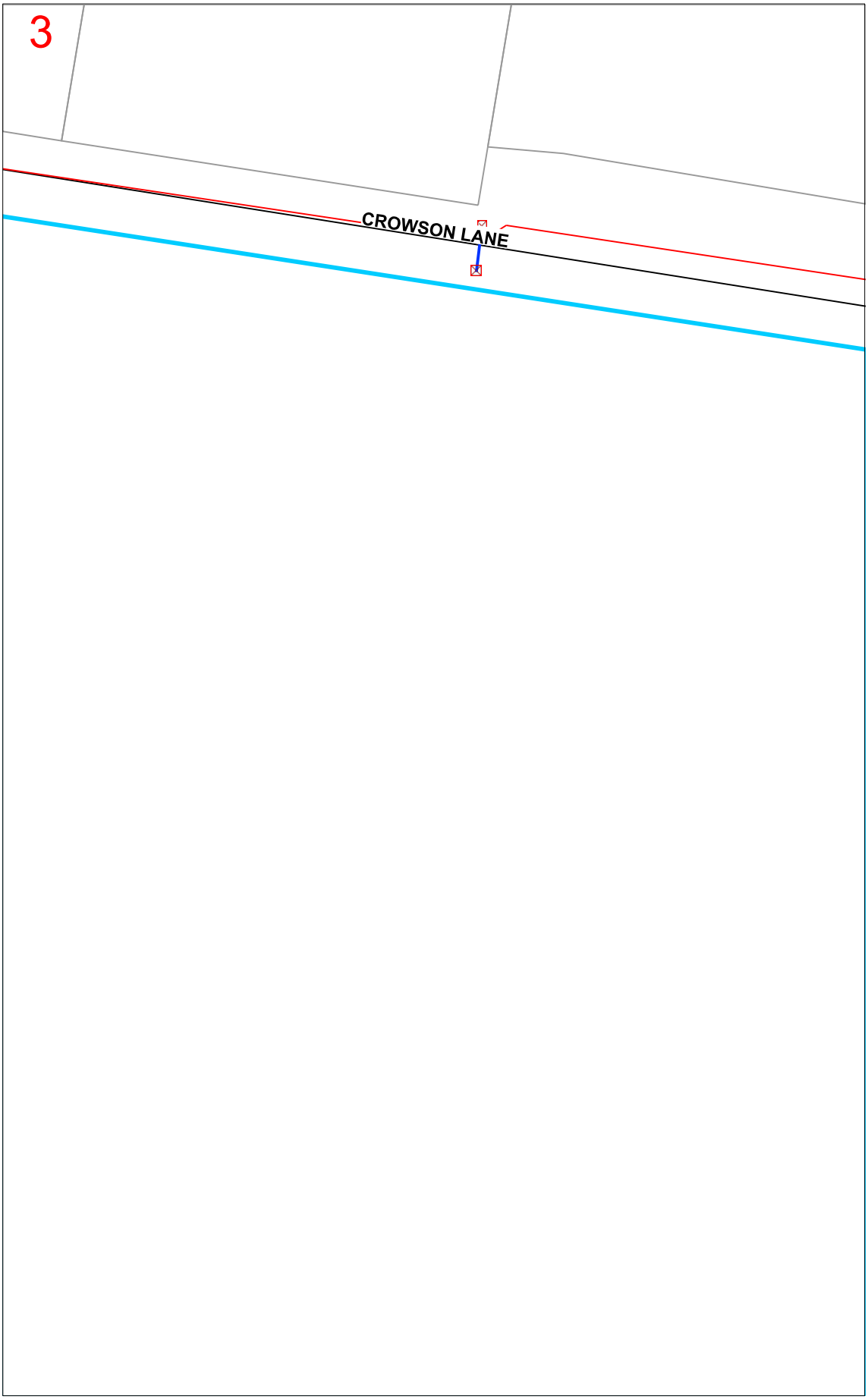
Map 3

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

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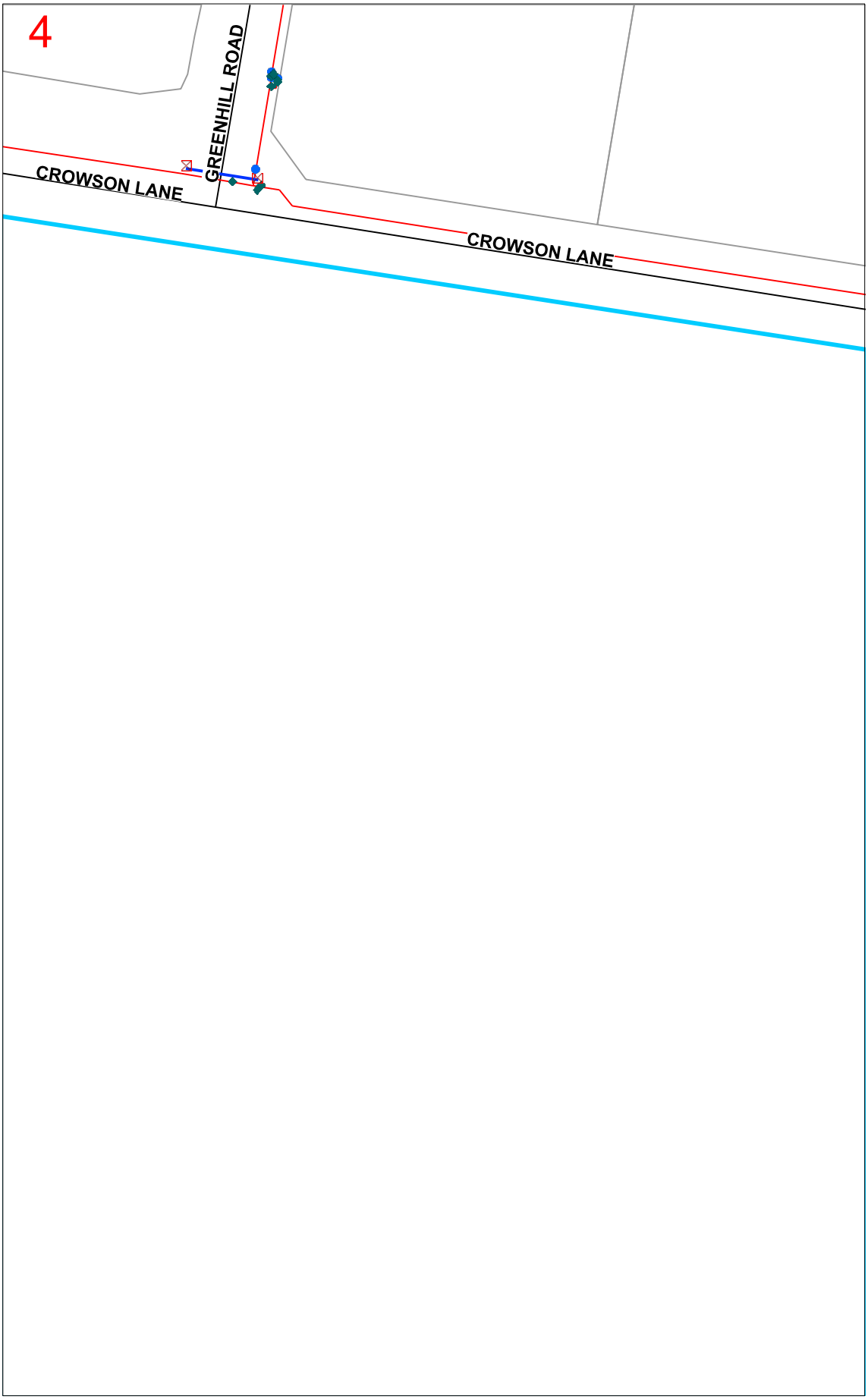
Map 4

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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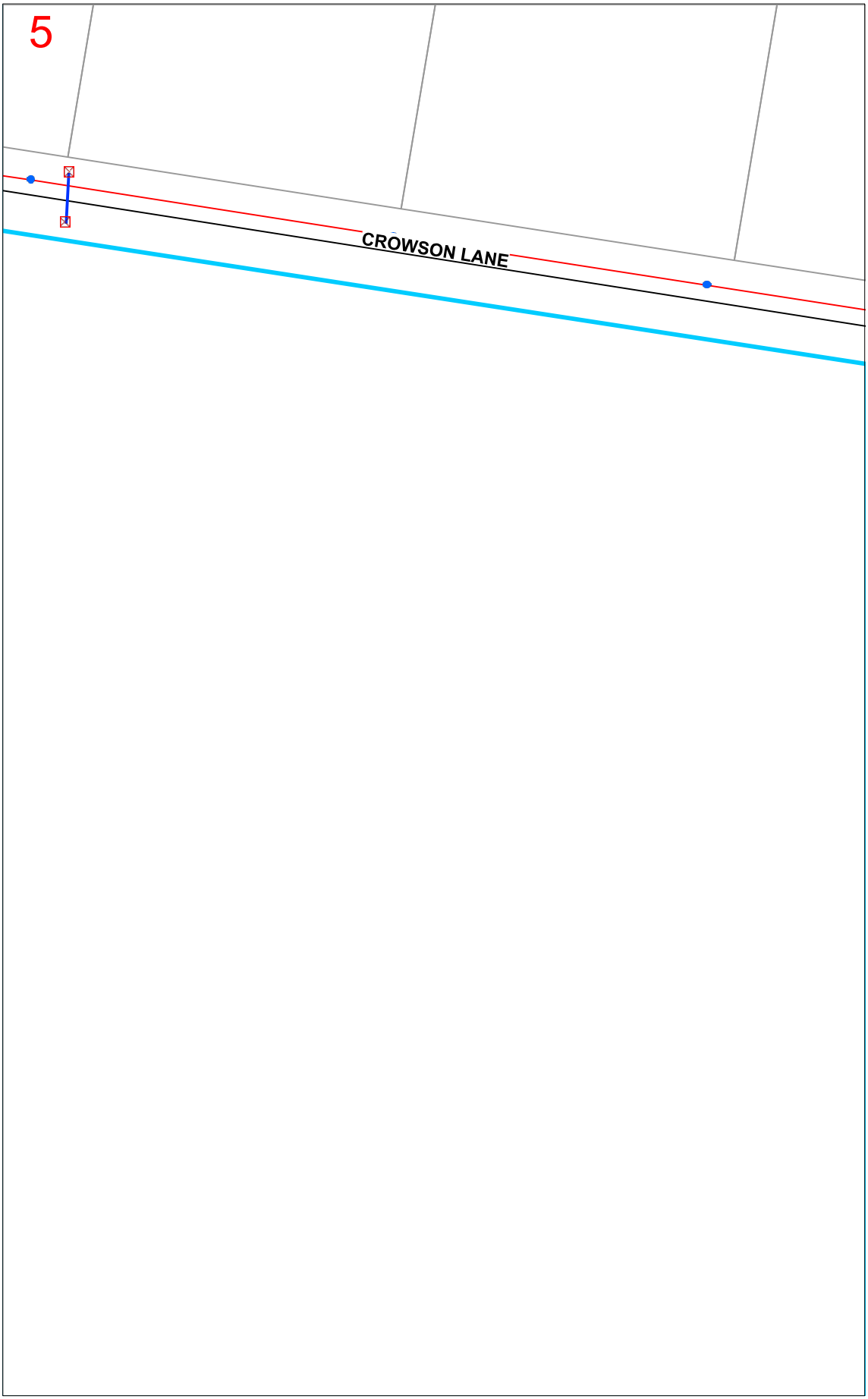
Map 5

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

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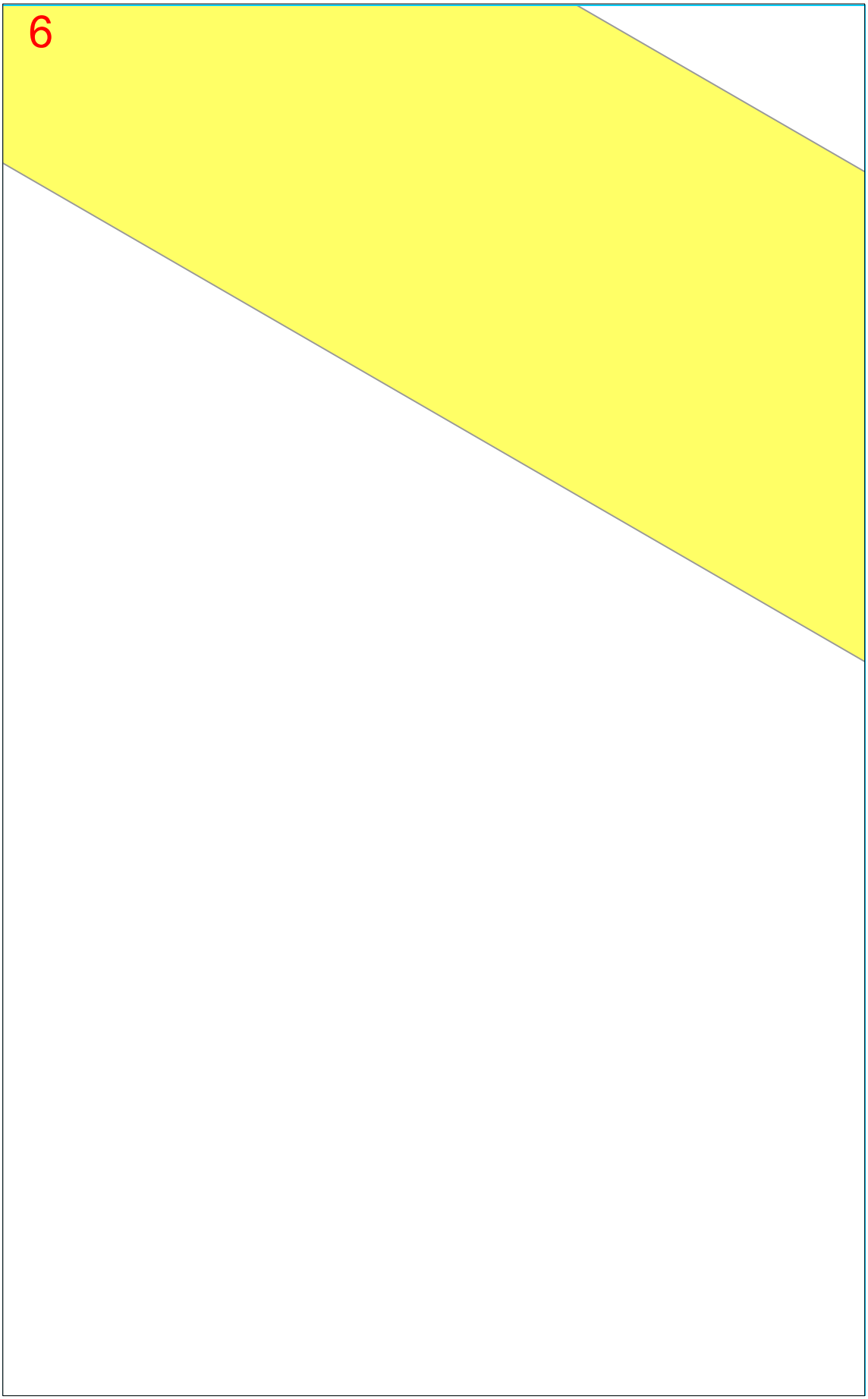
Map 6

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

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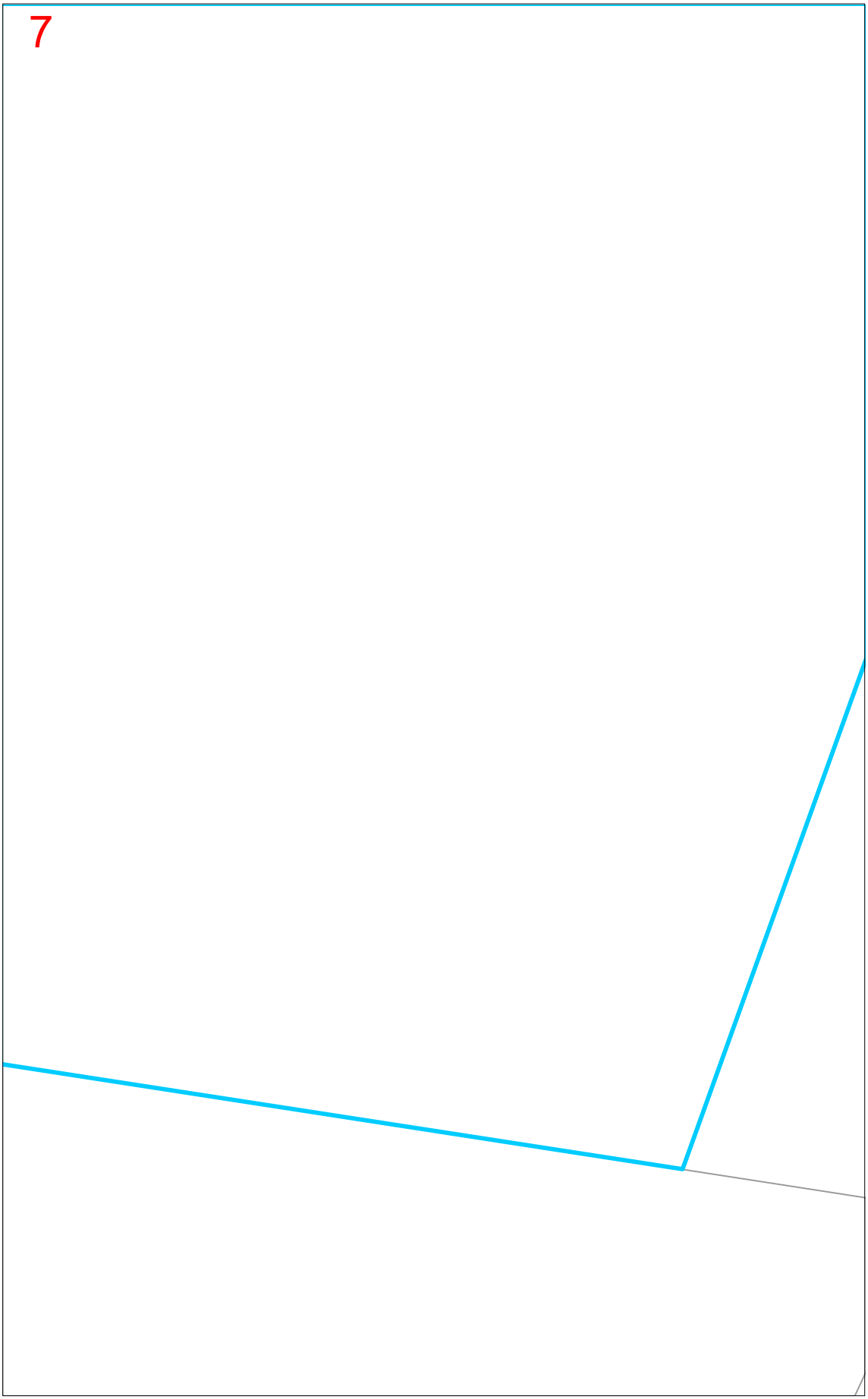
Map 7

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

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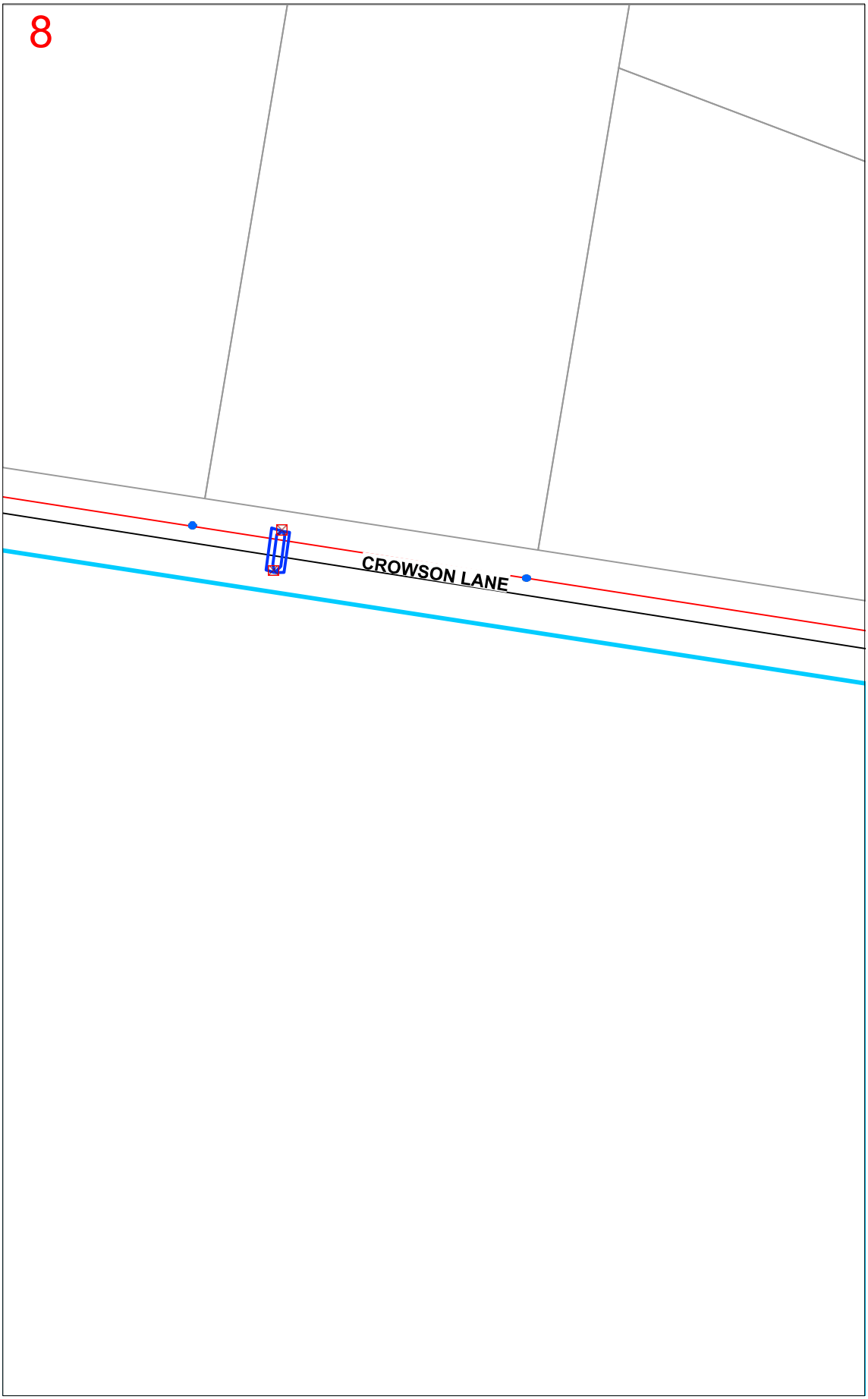
Map 8

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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Map 9

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North

LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

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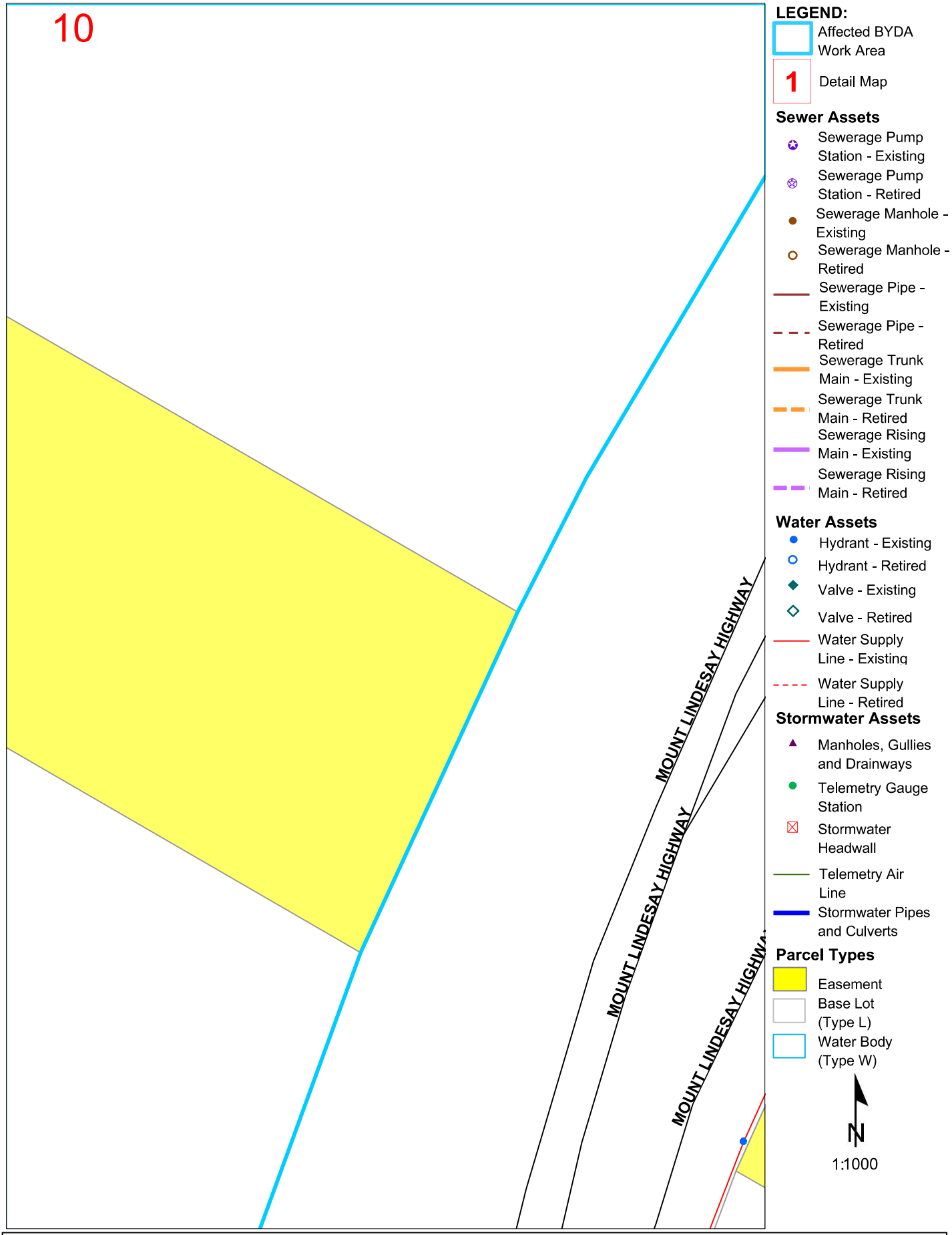
Map 10

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



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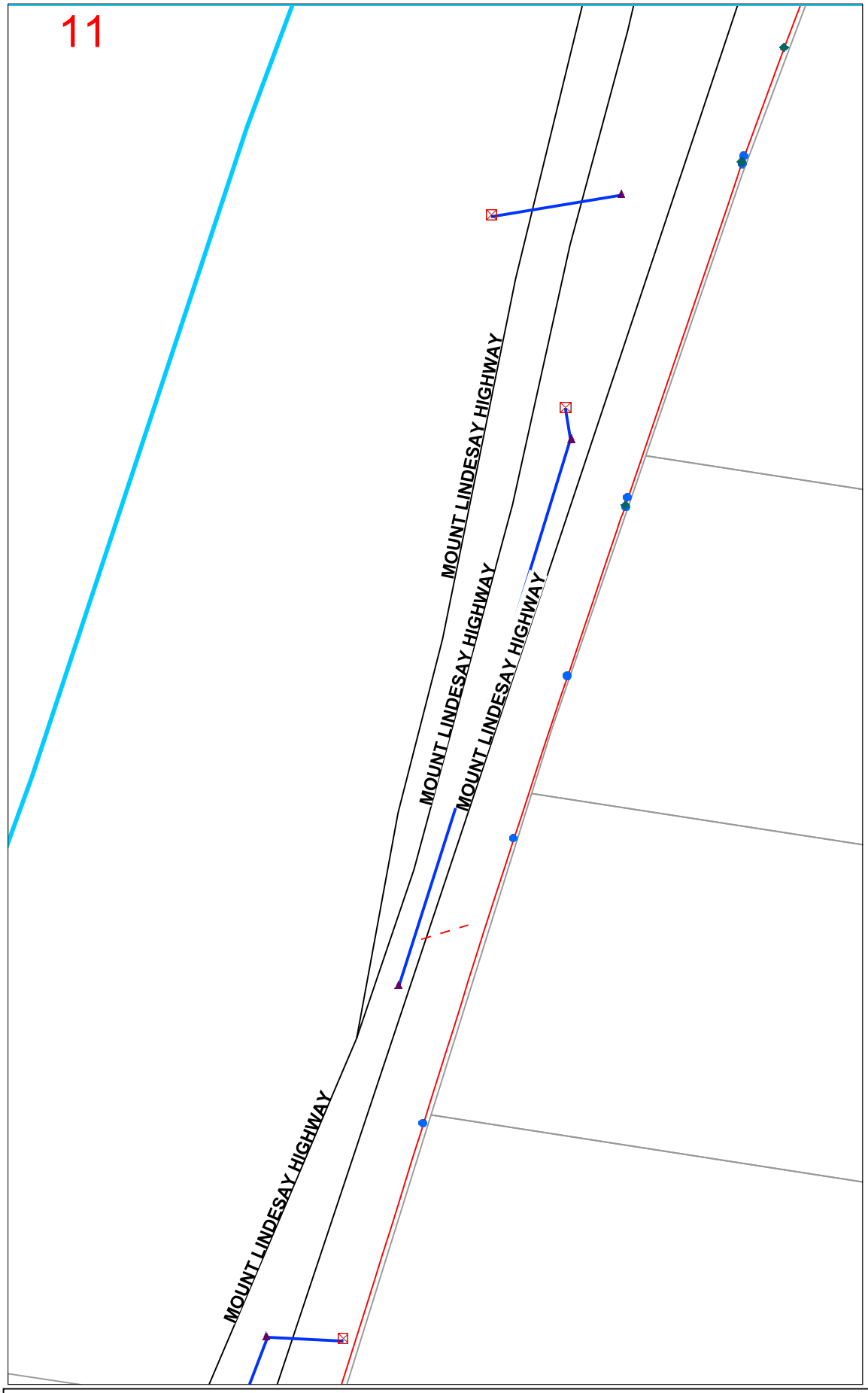
Map 11

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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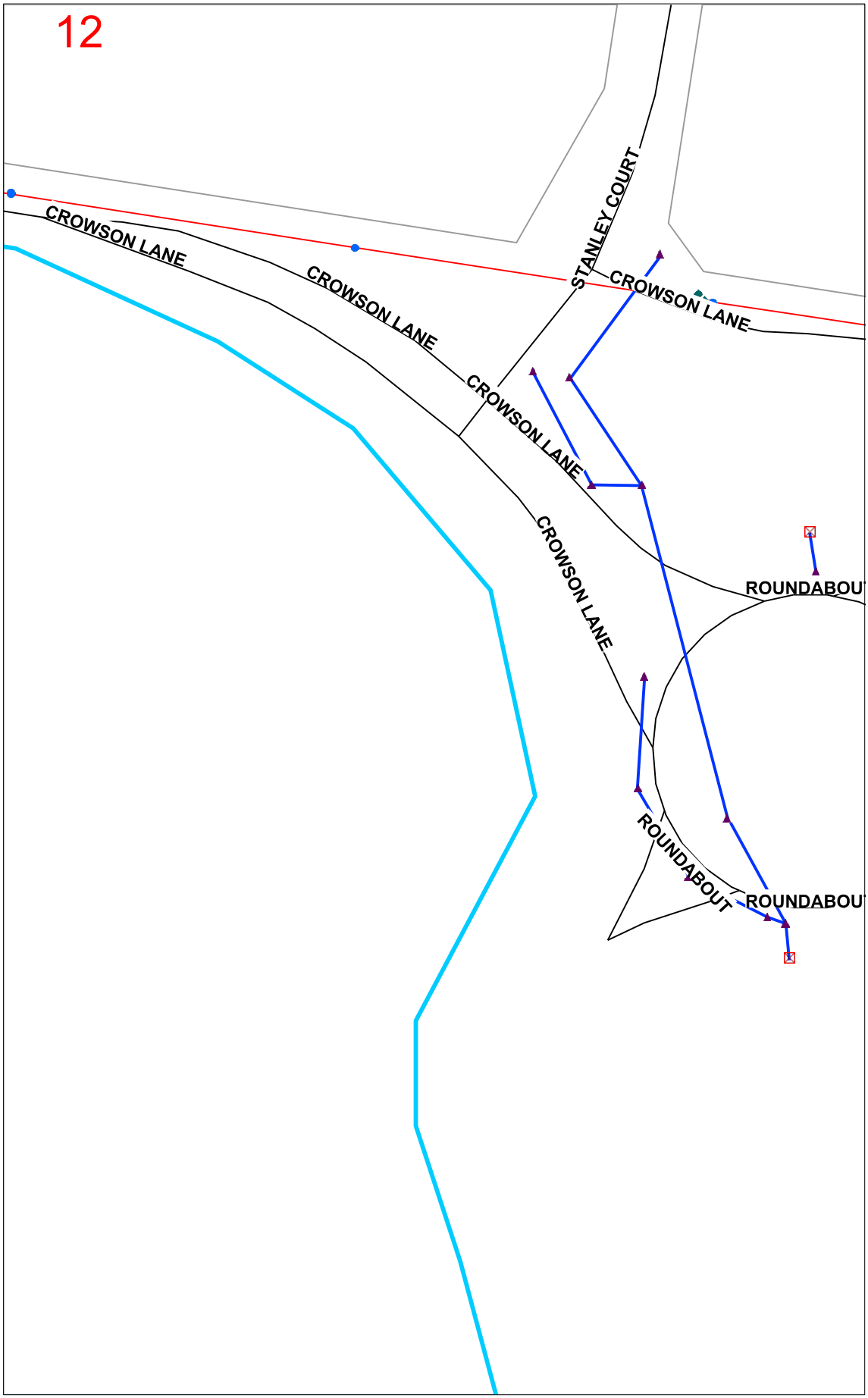
Map 12

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



LEGEND:

- Affected BYDA Work Area
- 1 Detail Map

Sewer Assets

- Sewerage Pump Station - Existing
- Sewerage Pump Station - Retired
- Sewerage Manhole - Existing
- Sewerage Manhole - Retired
- Sewerage Pipe - Existing
- Sewerage Pipe - Retired
- Sewerage Trunk Main - Existing
- Sewerage Trunk Main - Retired
- Sewerage Rising Main - Existing
- Sewerage Rising Main - Retired

Water Assets

- Hydrant - Existing
- Hydrant - Retired
- Valve - Existing
- Valve - Retired
- Water Supply Line - Existing
- Water Supply Line - Retired

Stormwater Assets

- Manholes, Gullies and Drainways
- Telemetry Gauge Station
- Stormwater Headwall
- Telemetry Air Line
- Stormwater Pipes and Culverts

Parcel Types

- Easement
- Base Lot (Type L)
- Water Body (Type W)

N

1:1000

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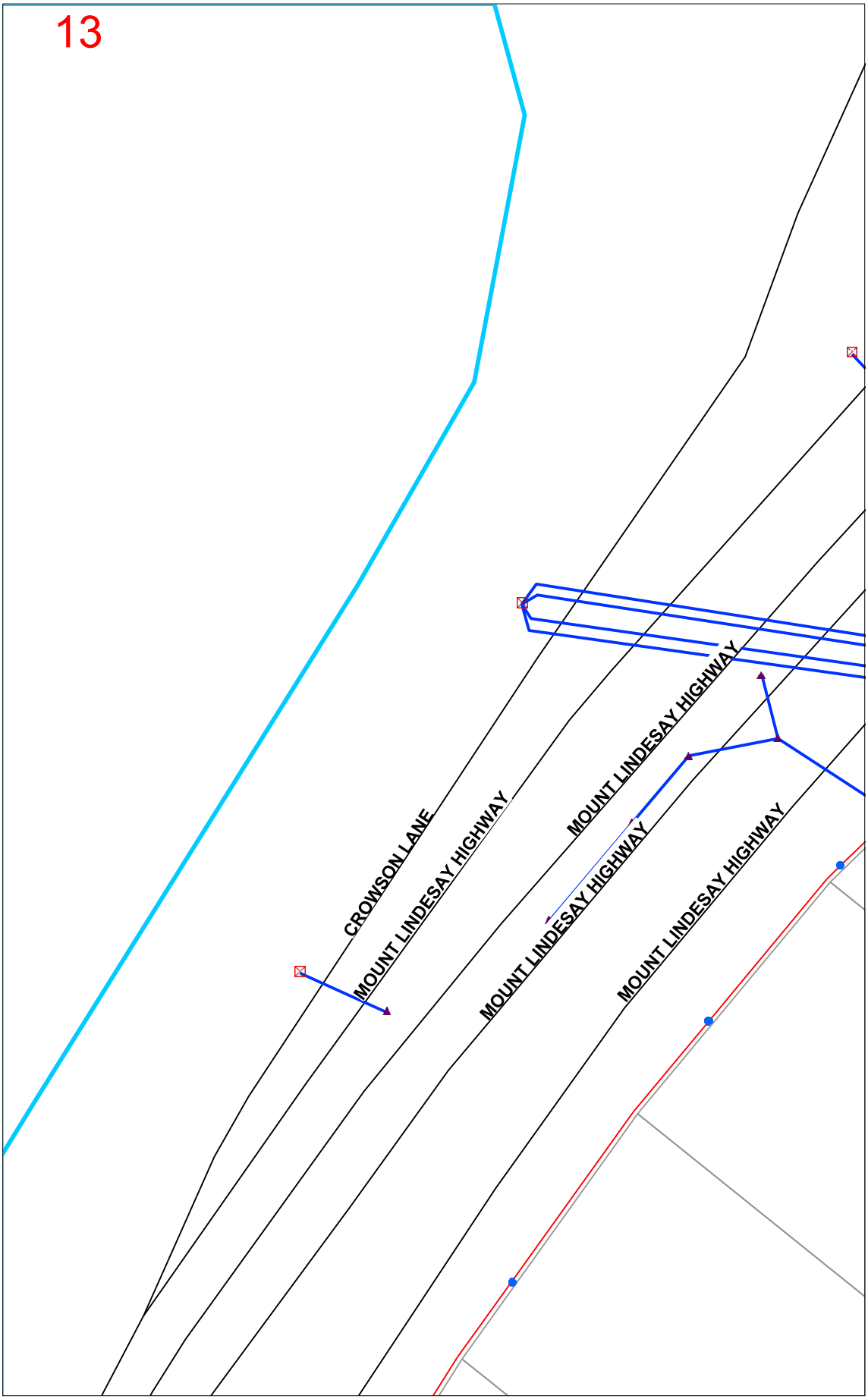
Map 13

Sequence No: 230346248

Oaklands 4499-4651 Mount Lindesay Hwy North



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To:	Ali Reza Haghjoo
Phone:	Not Supplied
Fax:	Not Supplied
Email:	ali.haghjoo@costinroe.com.au

Dial before you dig Job #:	35169228
Sequence #	230346156
Issue Date:	03/10/2023
Location:	Oaklands 4499-4651 Mount Lindesay Hwy , North Maclean , QLD , 4280

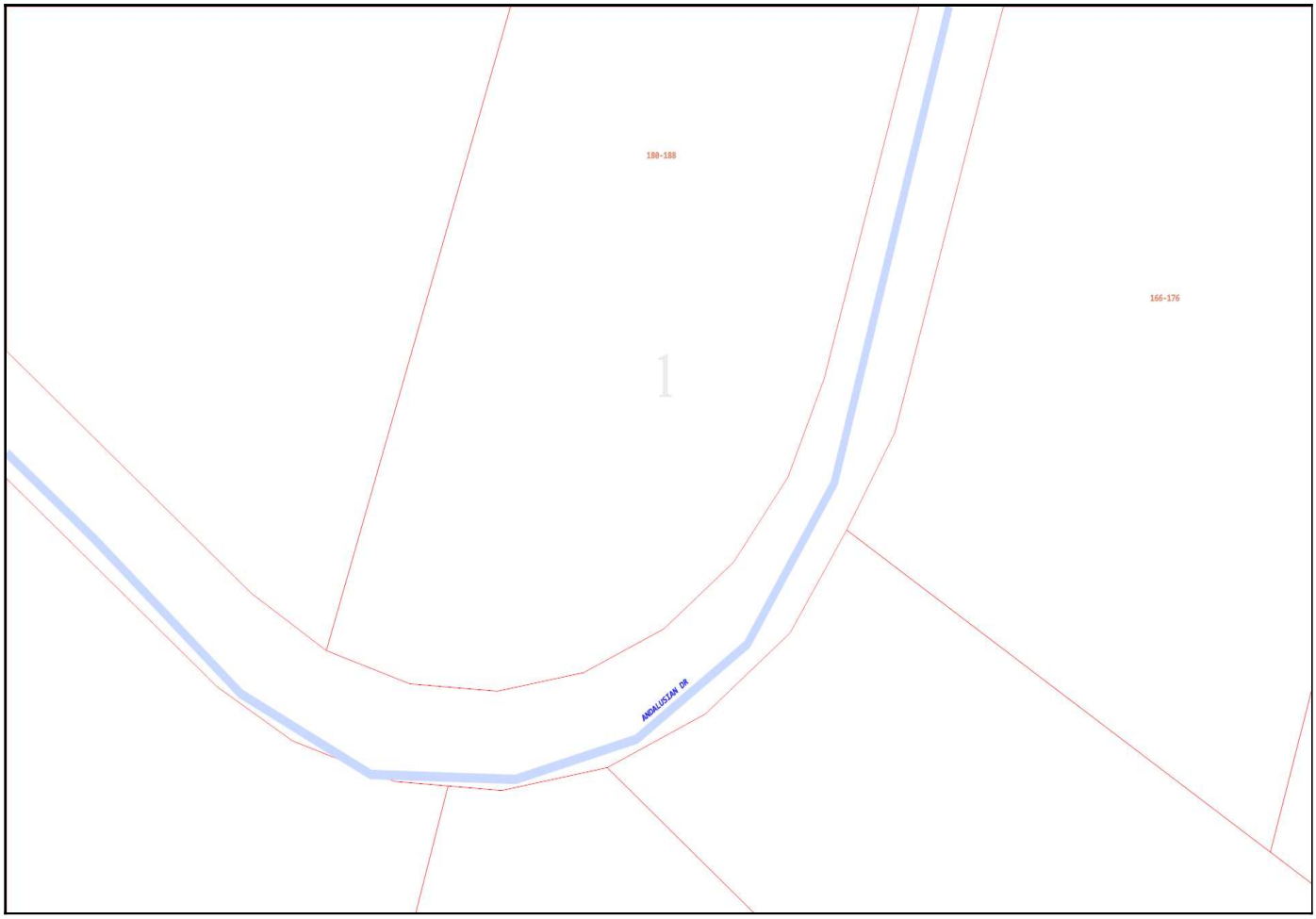
DIAL BEFORE YOU DIG www.1100.com.au

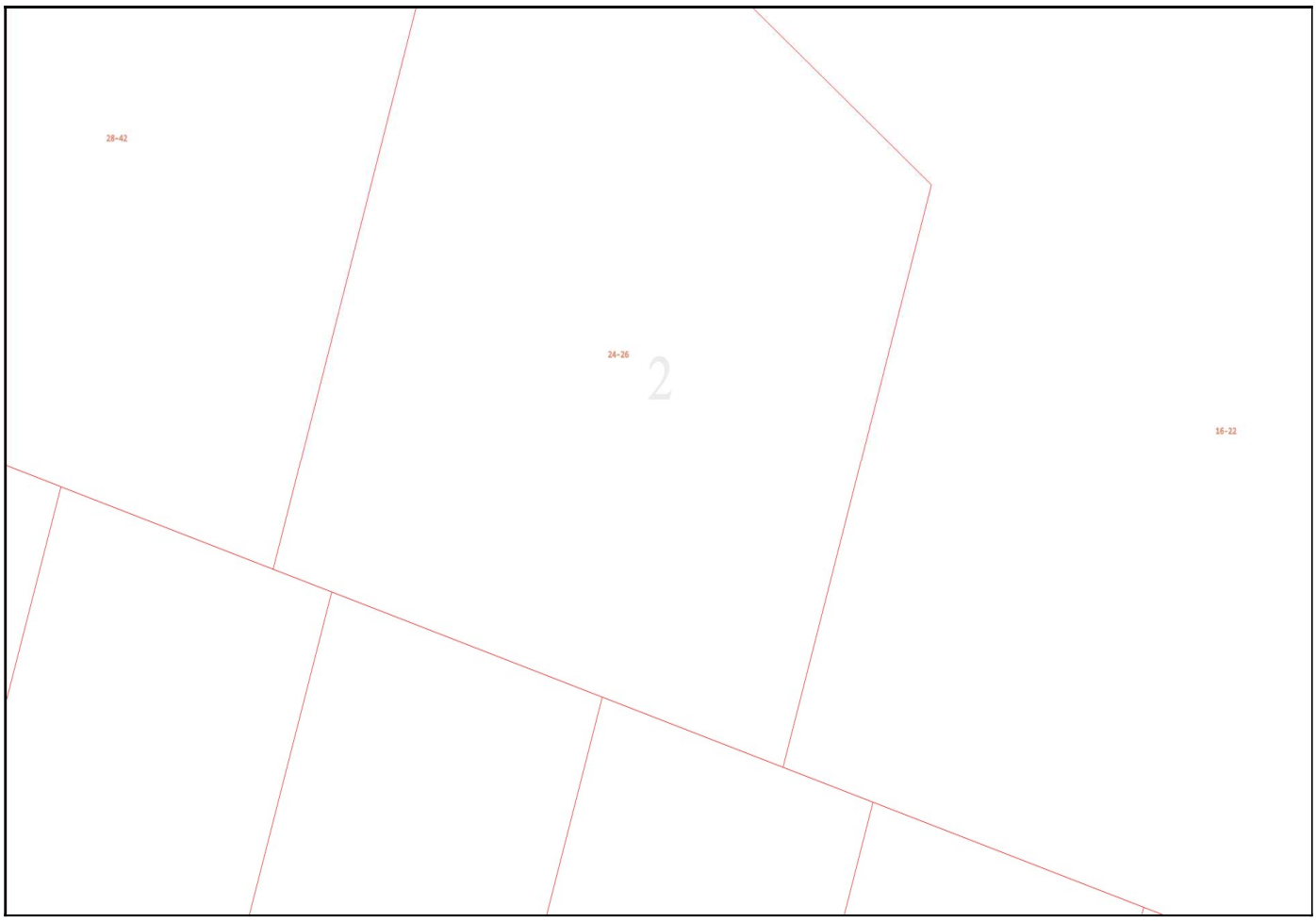
Indicative Plans

2	10	18	26	34
3	11	19	27	35
4	12	20	28	36
5	13	21	29	37
6	14	22	30	38
7	15	23	31	39
8	16	24	32	40

LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m


180-188
166-176
1
ANDALUSIAN DR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24-26
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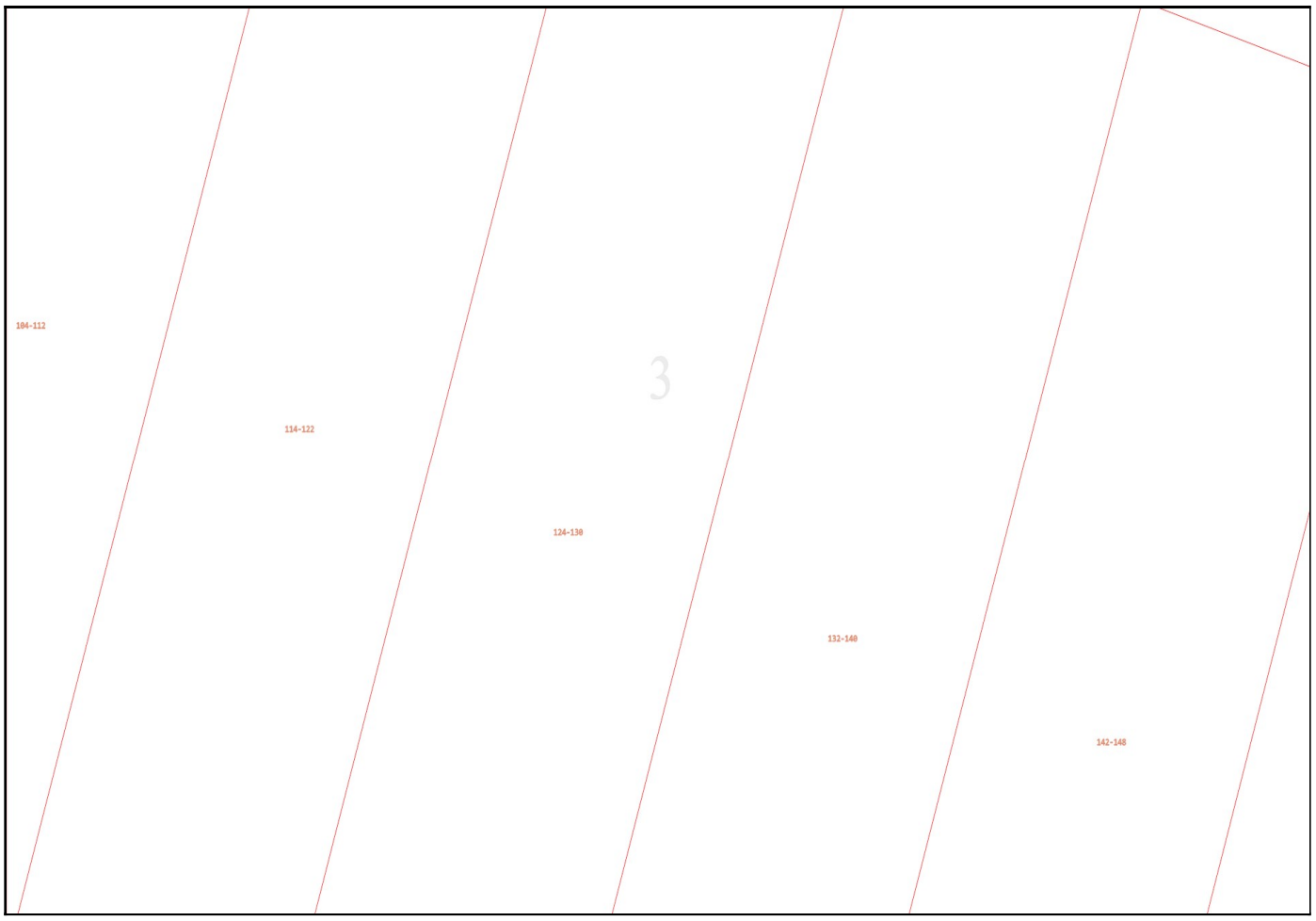
16-22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114-122
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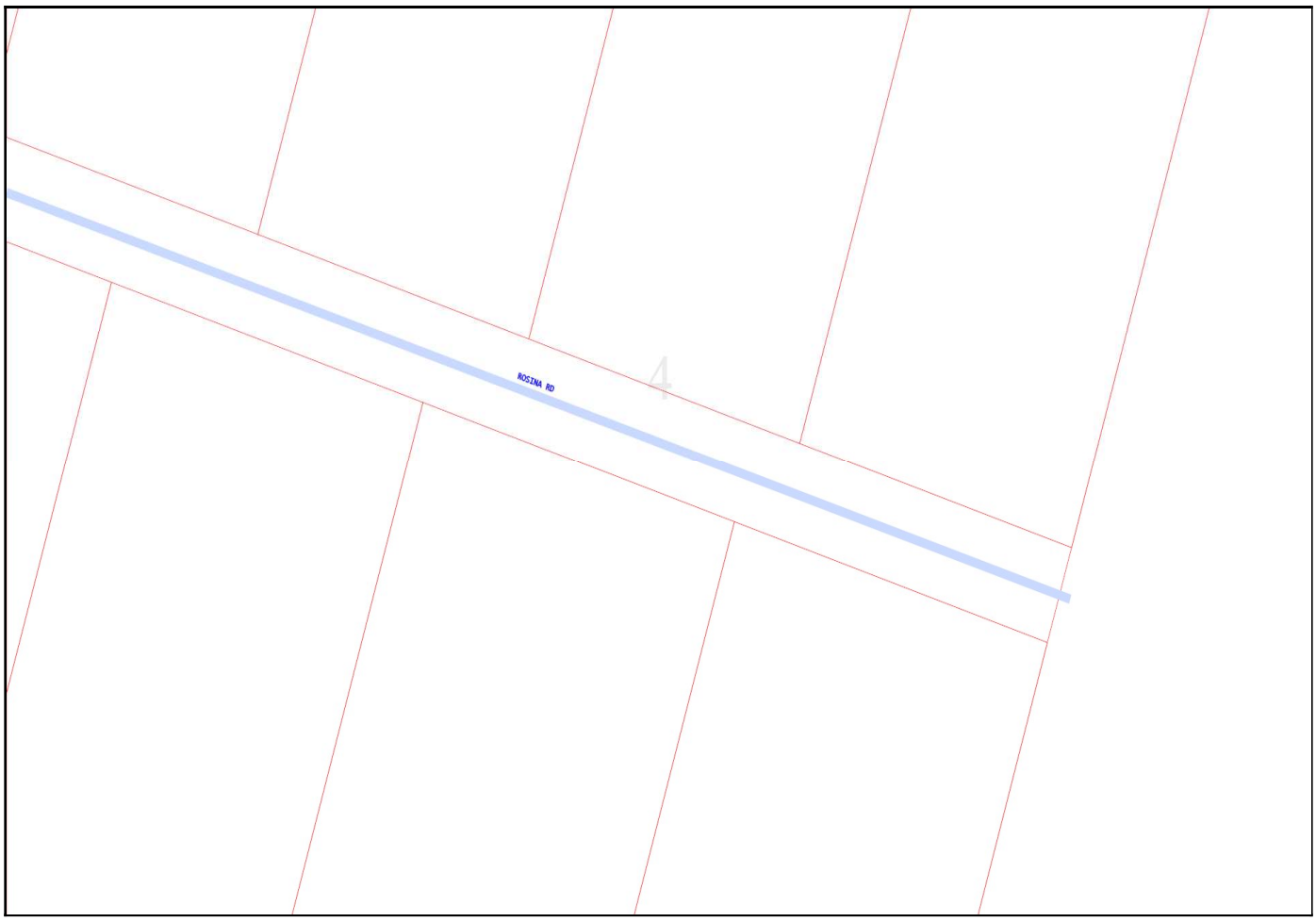
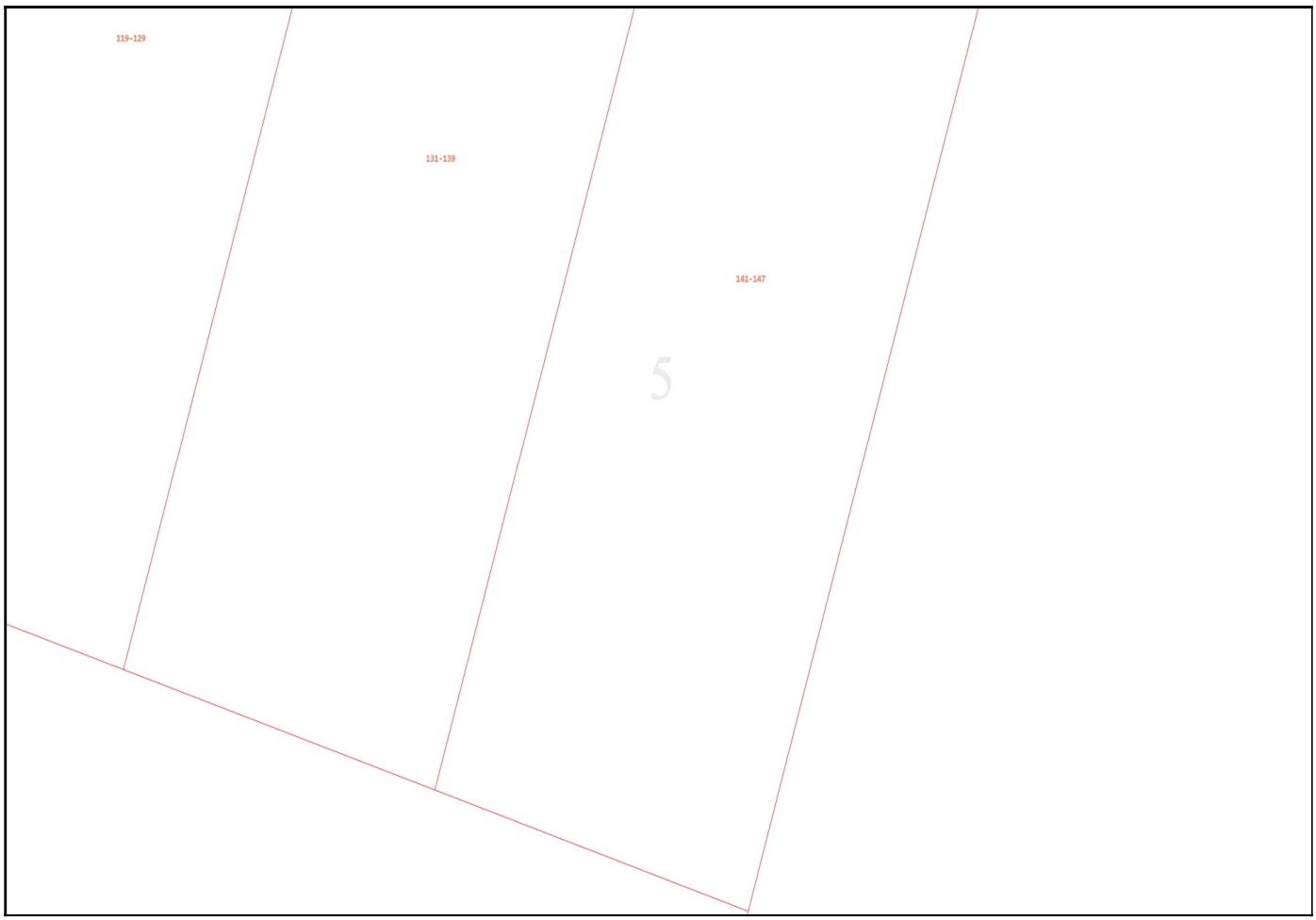
124-130
132-140
142-148


ROSINA RD


119-129
131-139
141-147
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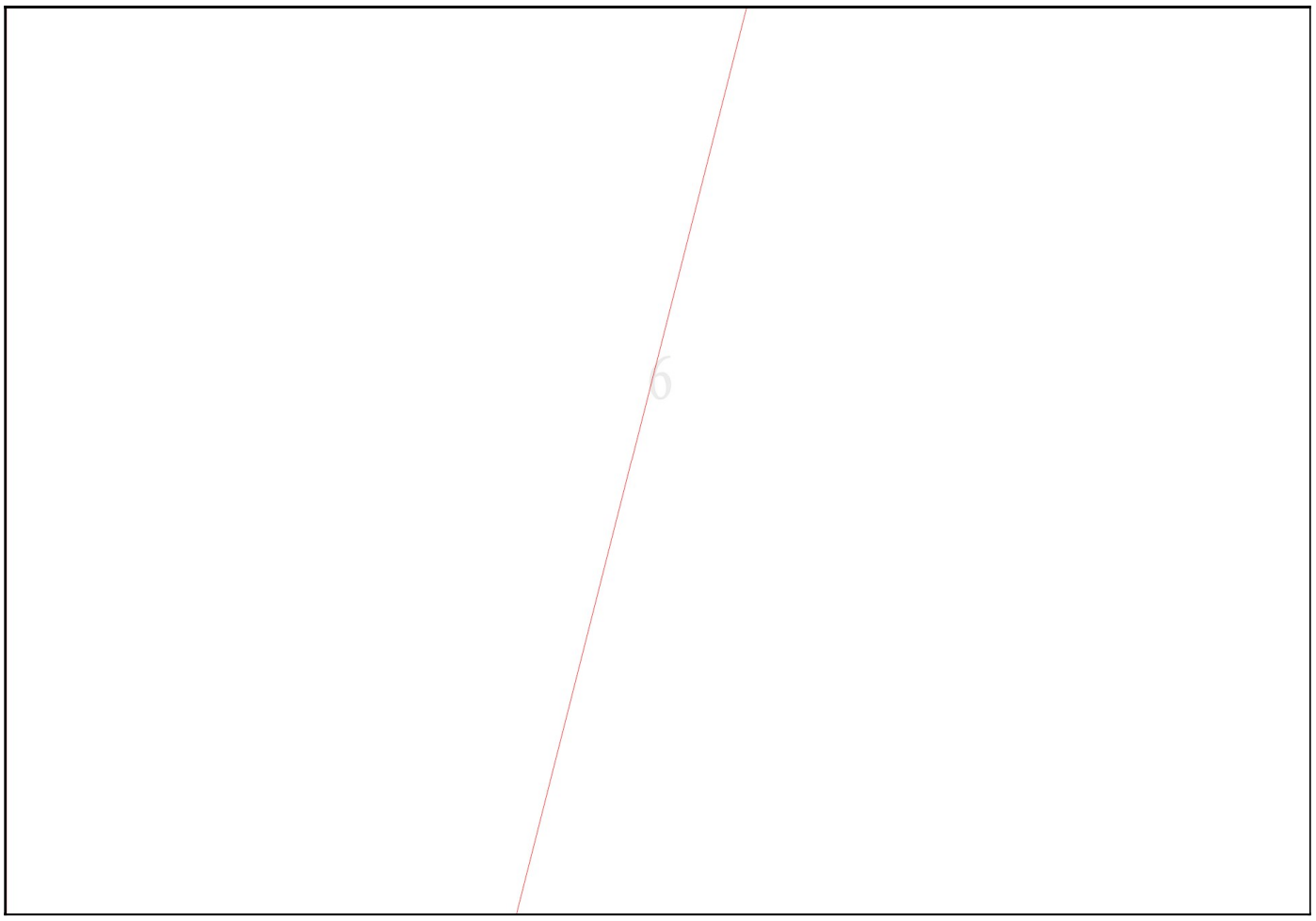

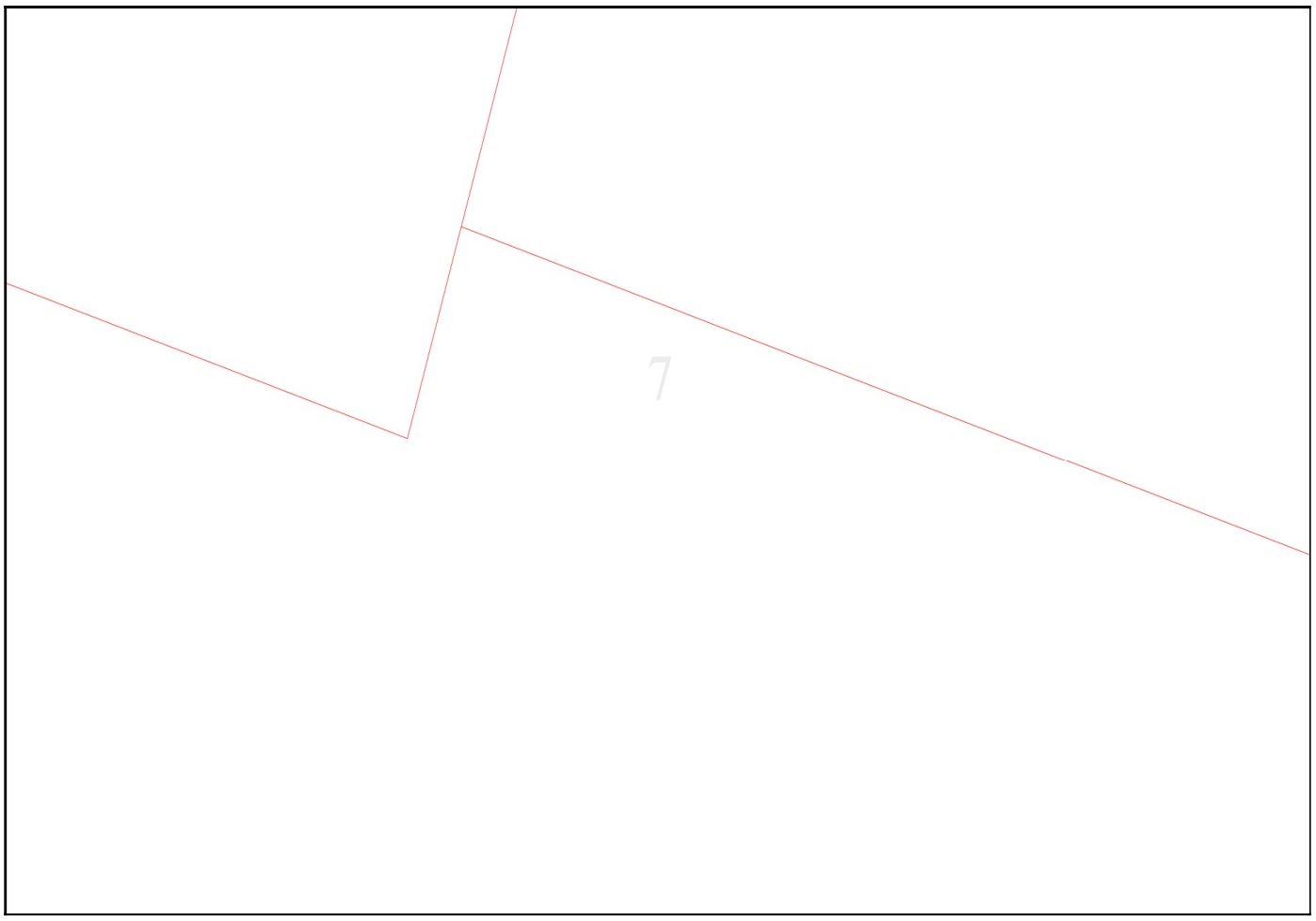
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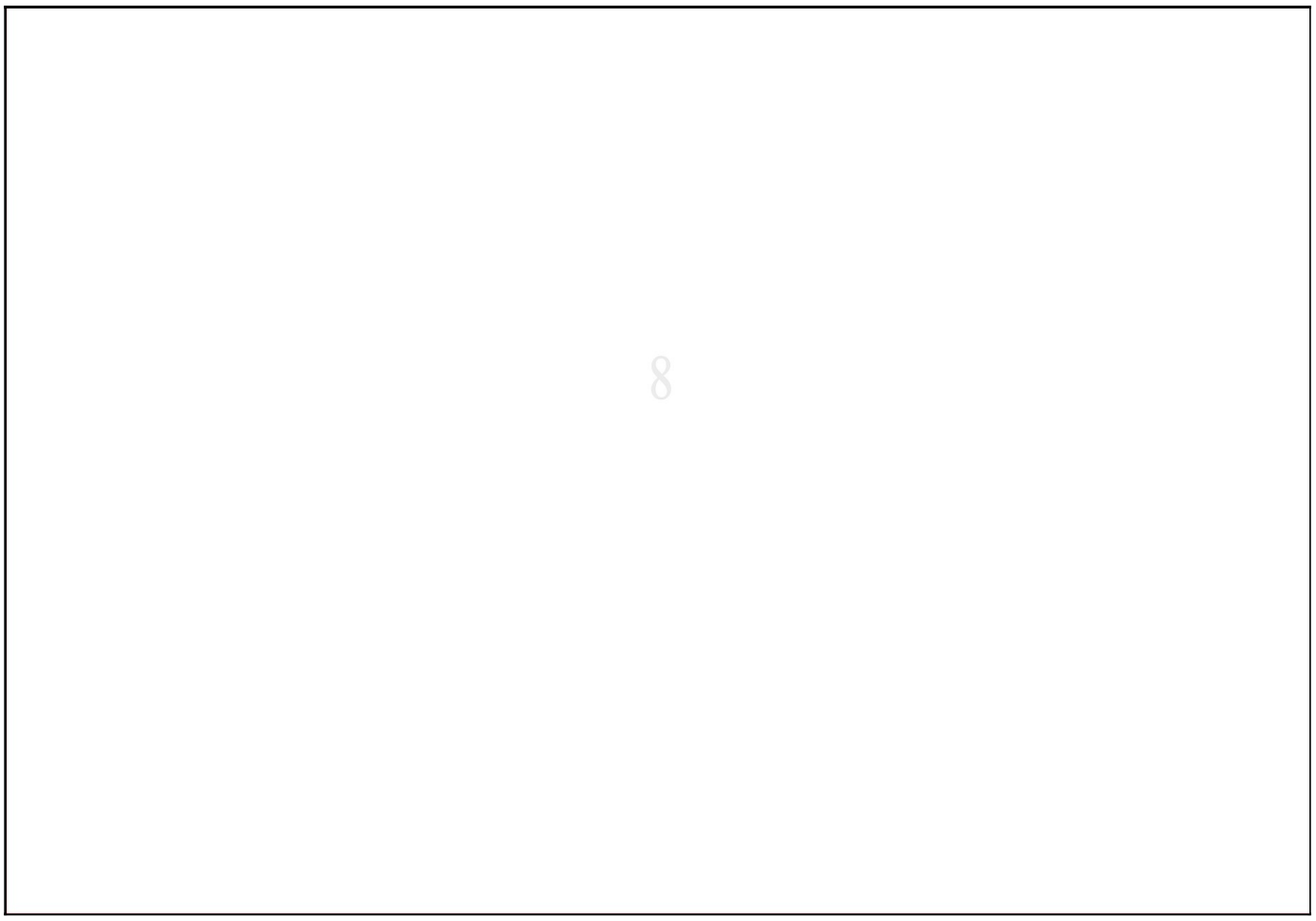

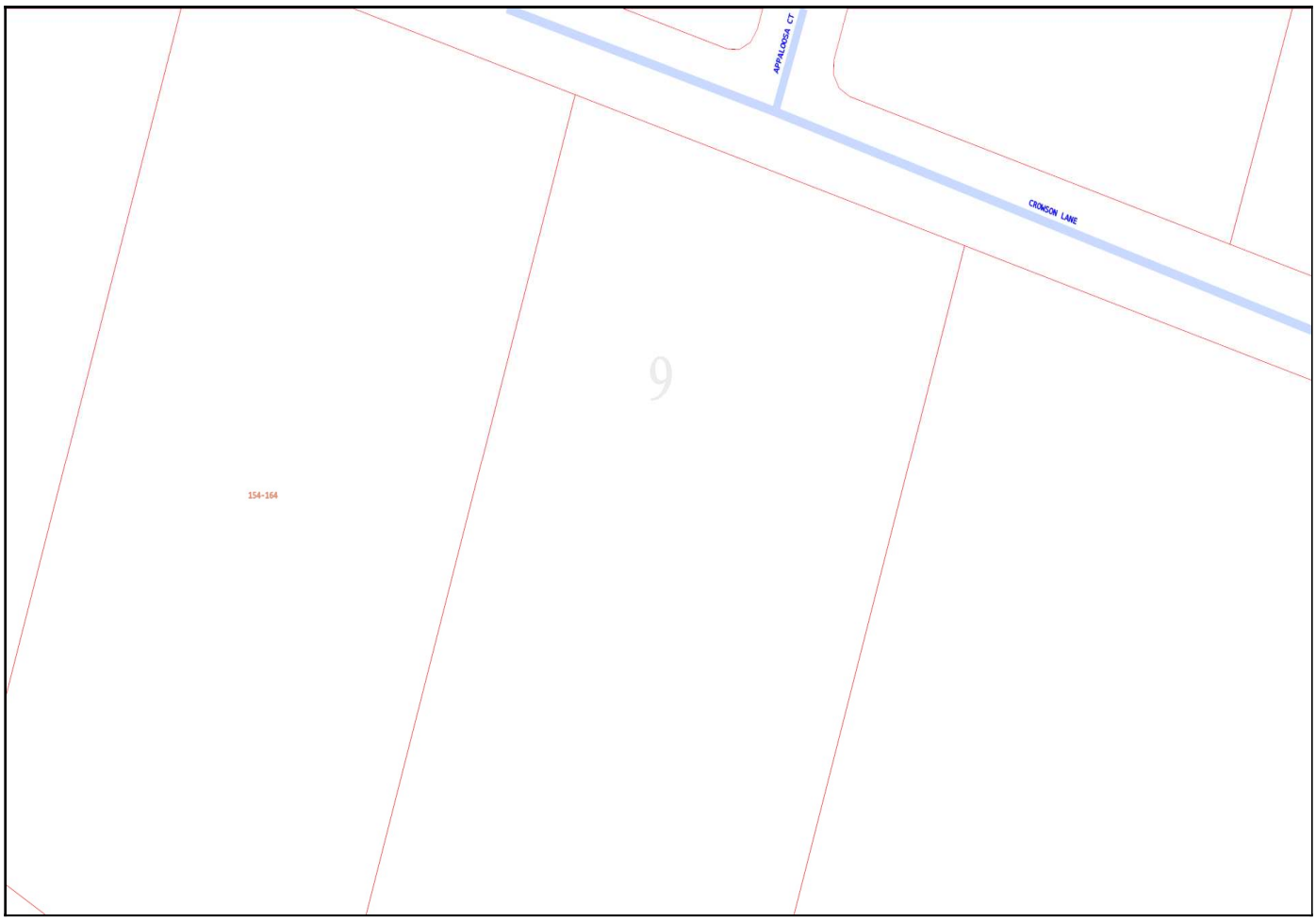
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CRONSON LANE
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154-164

142-152
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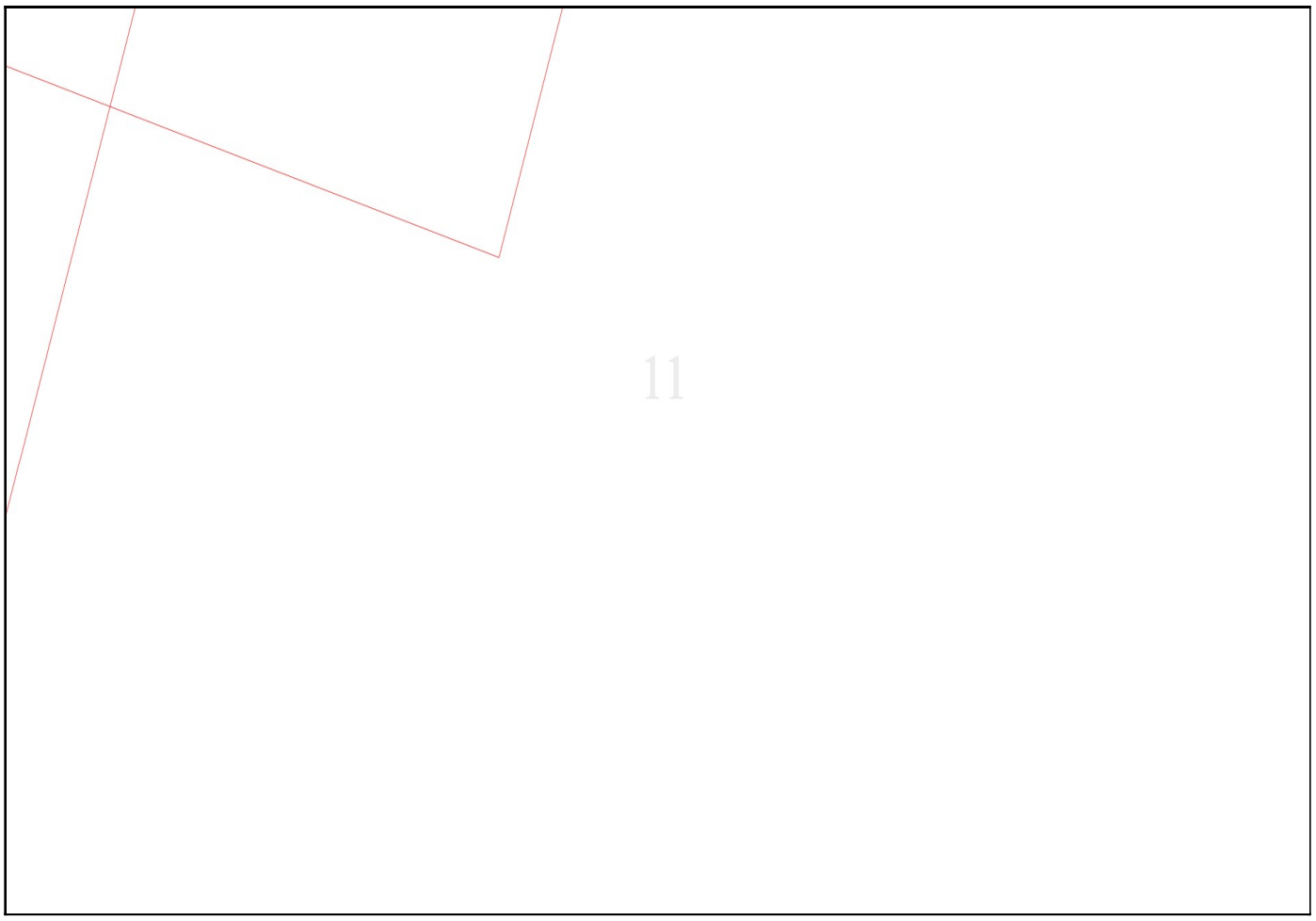

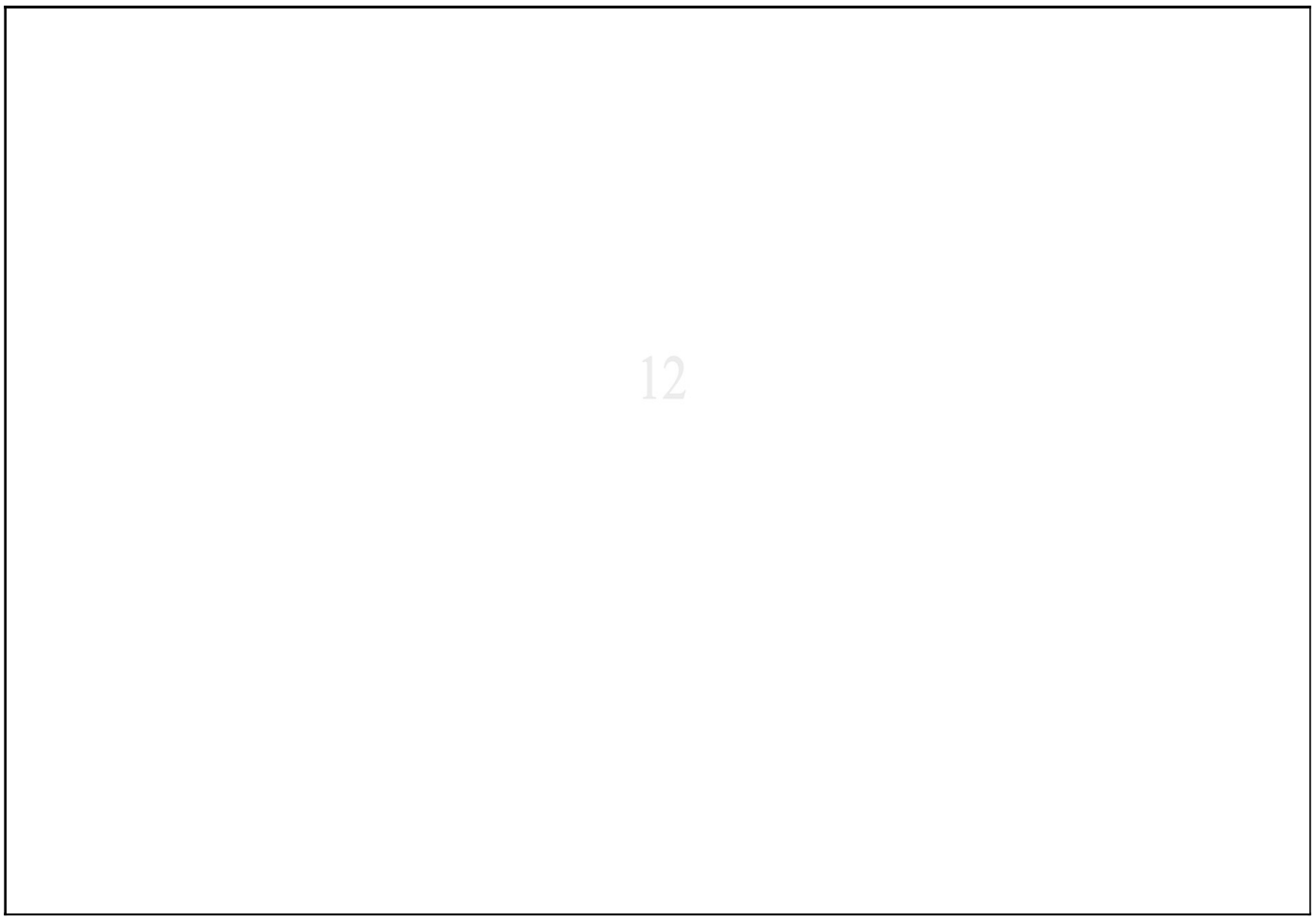
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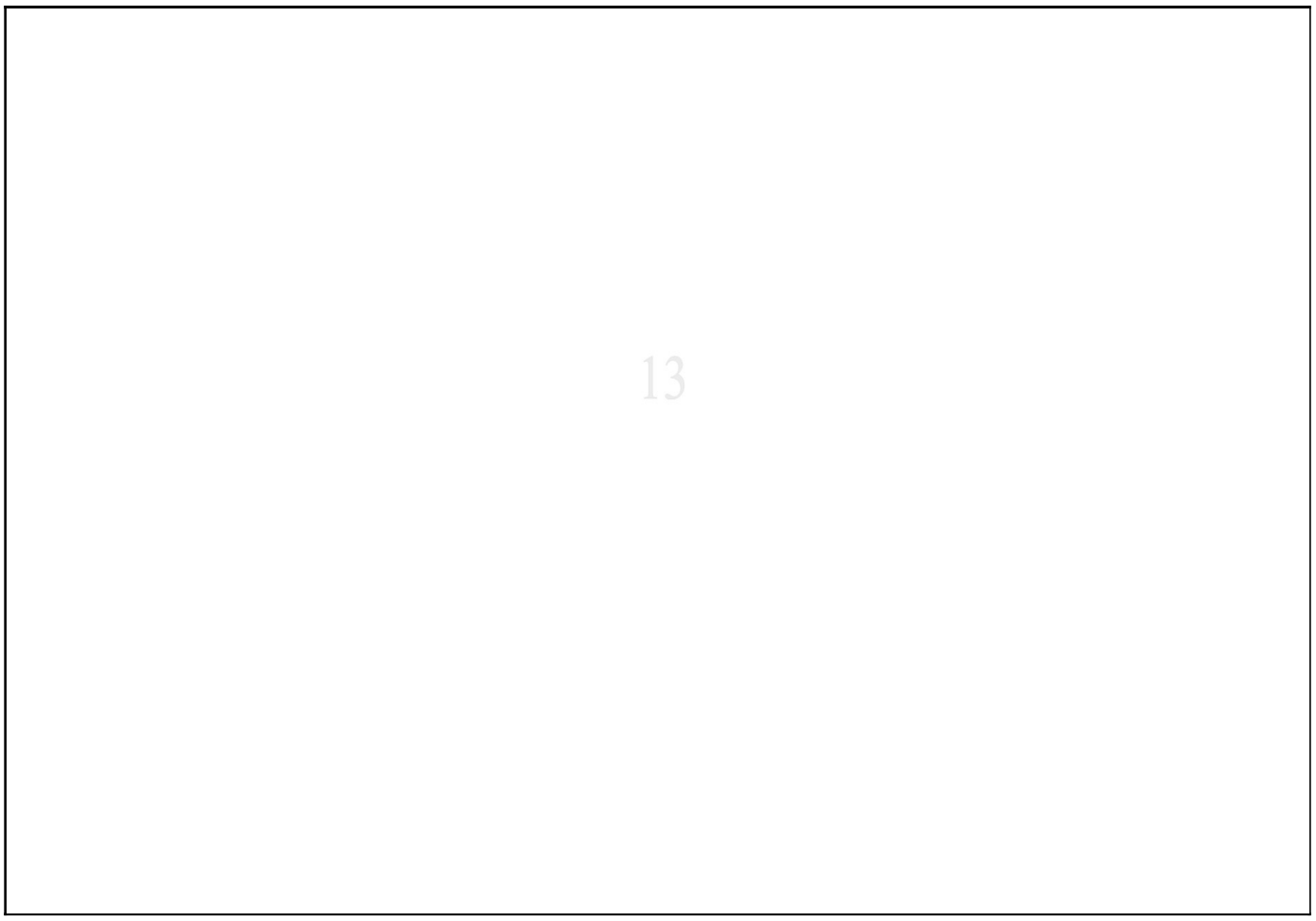
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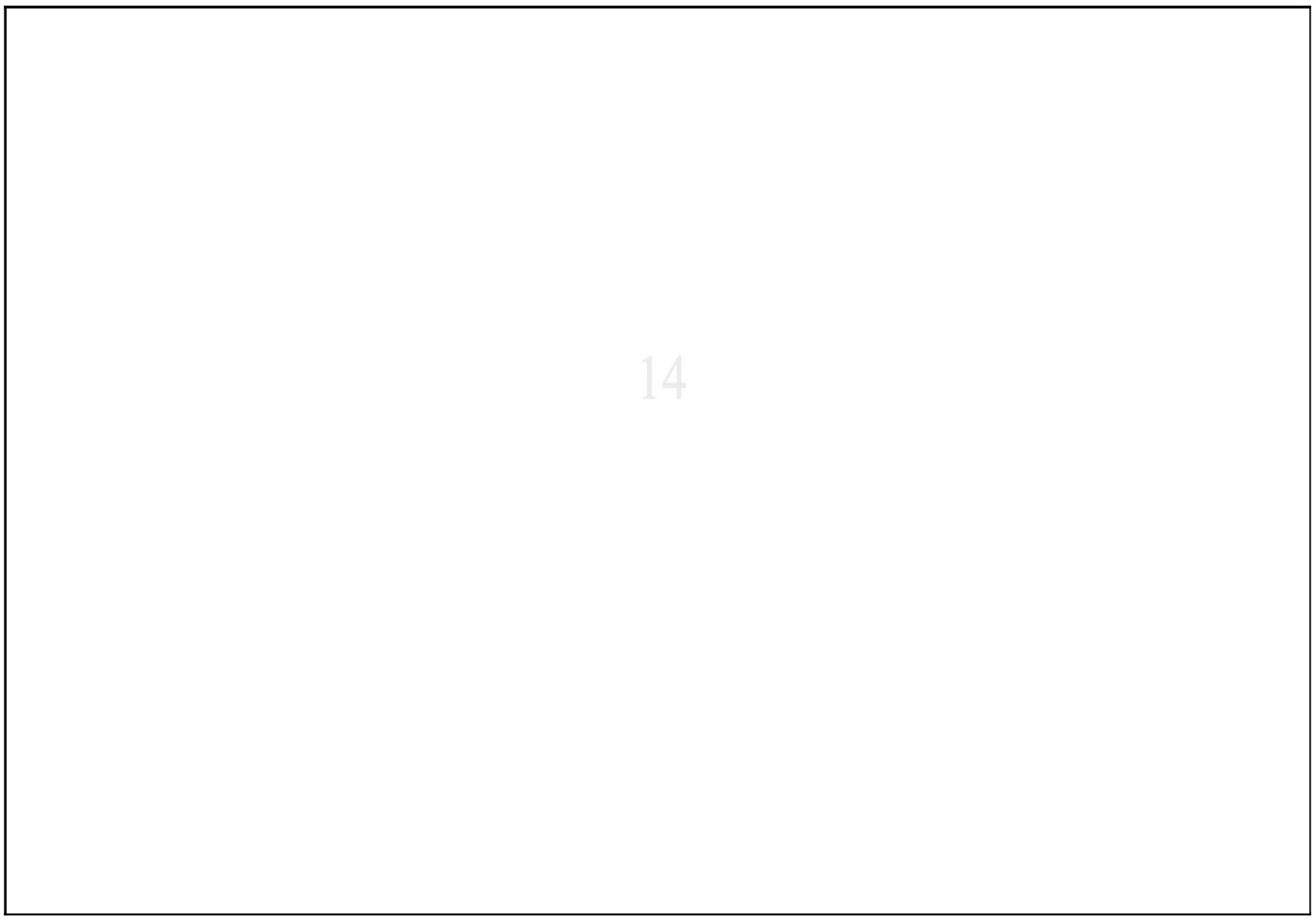
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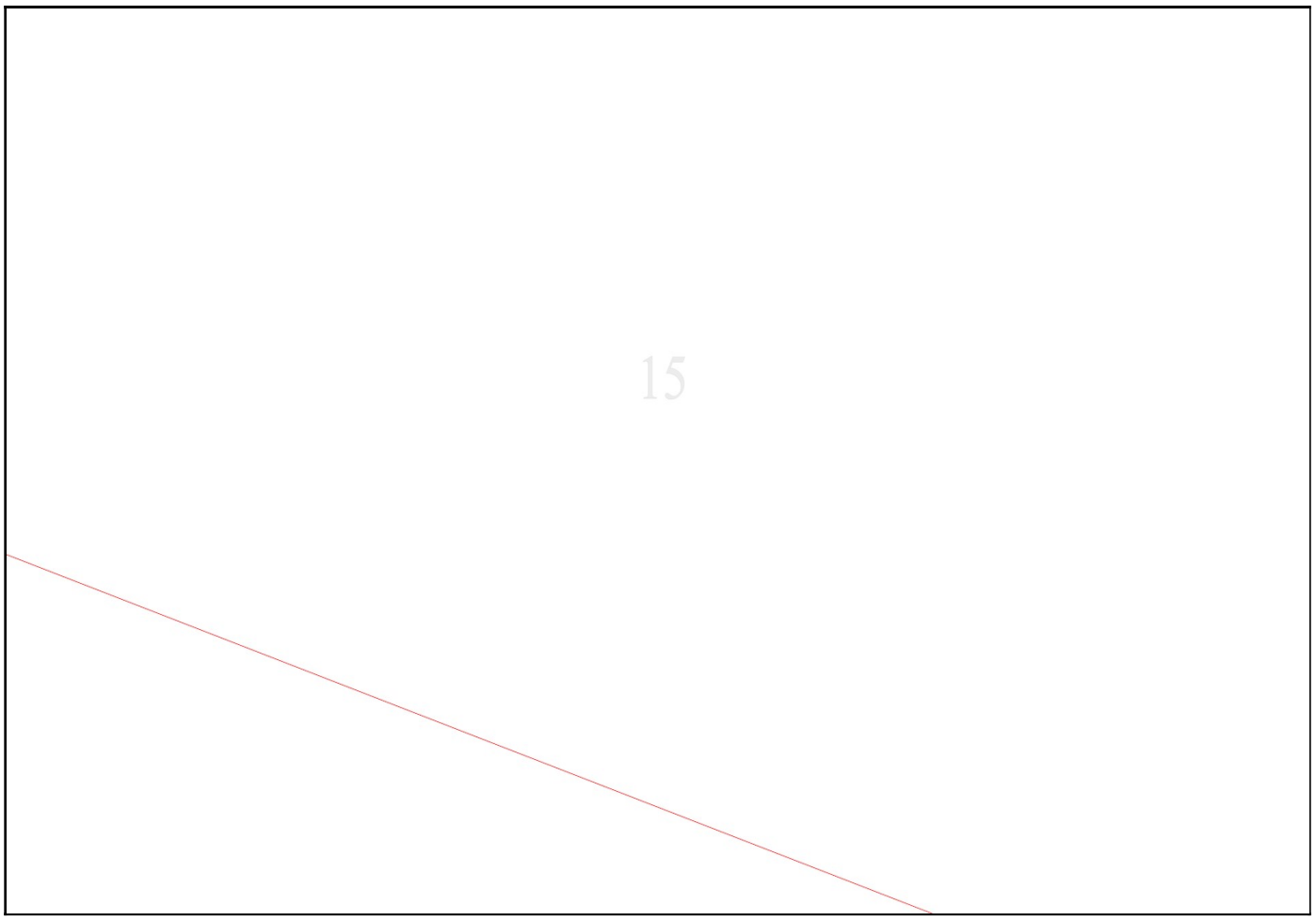
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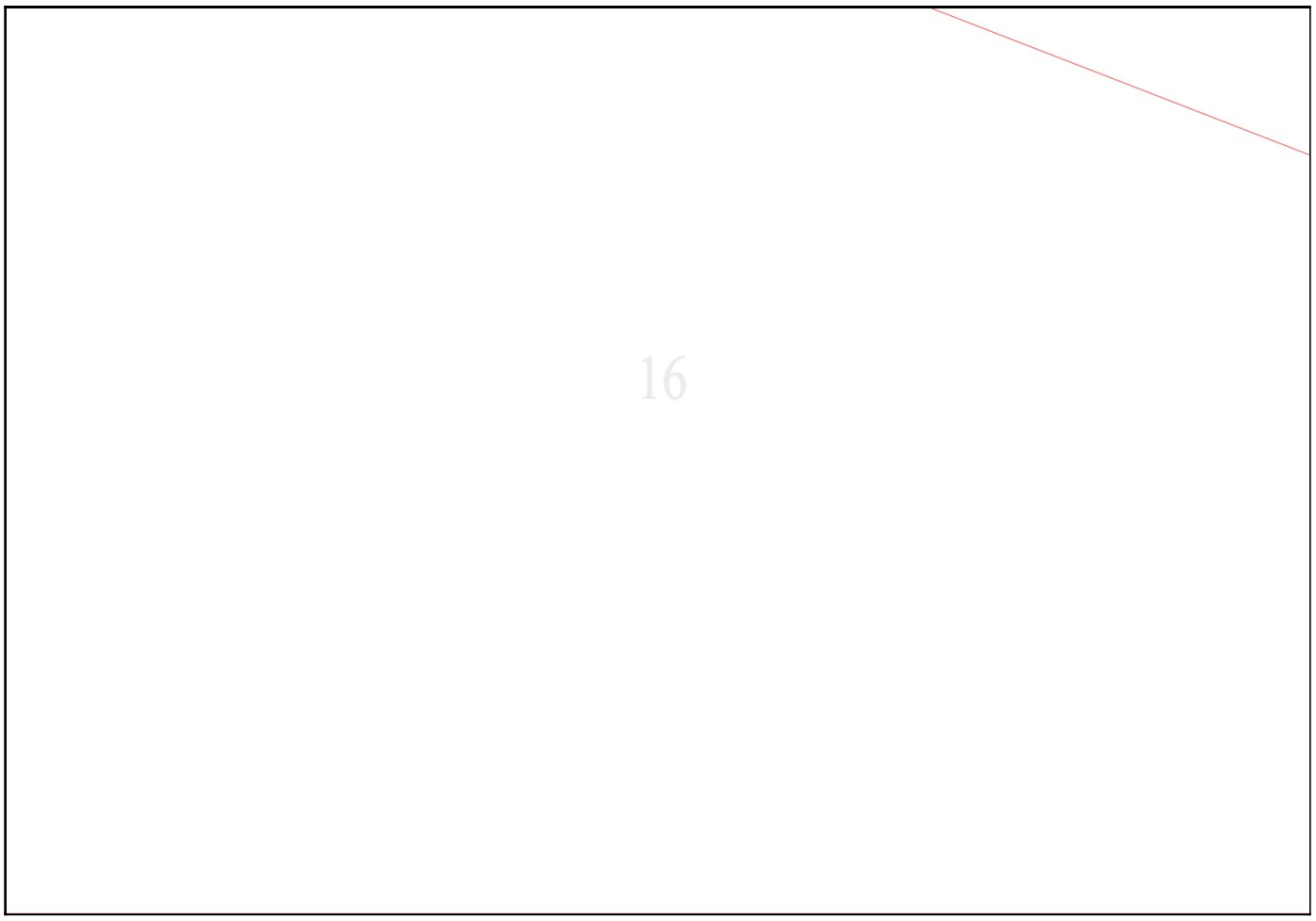
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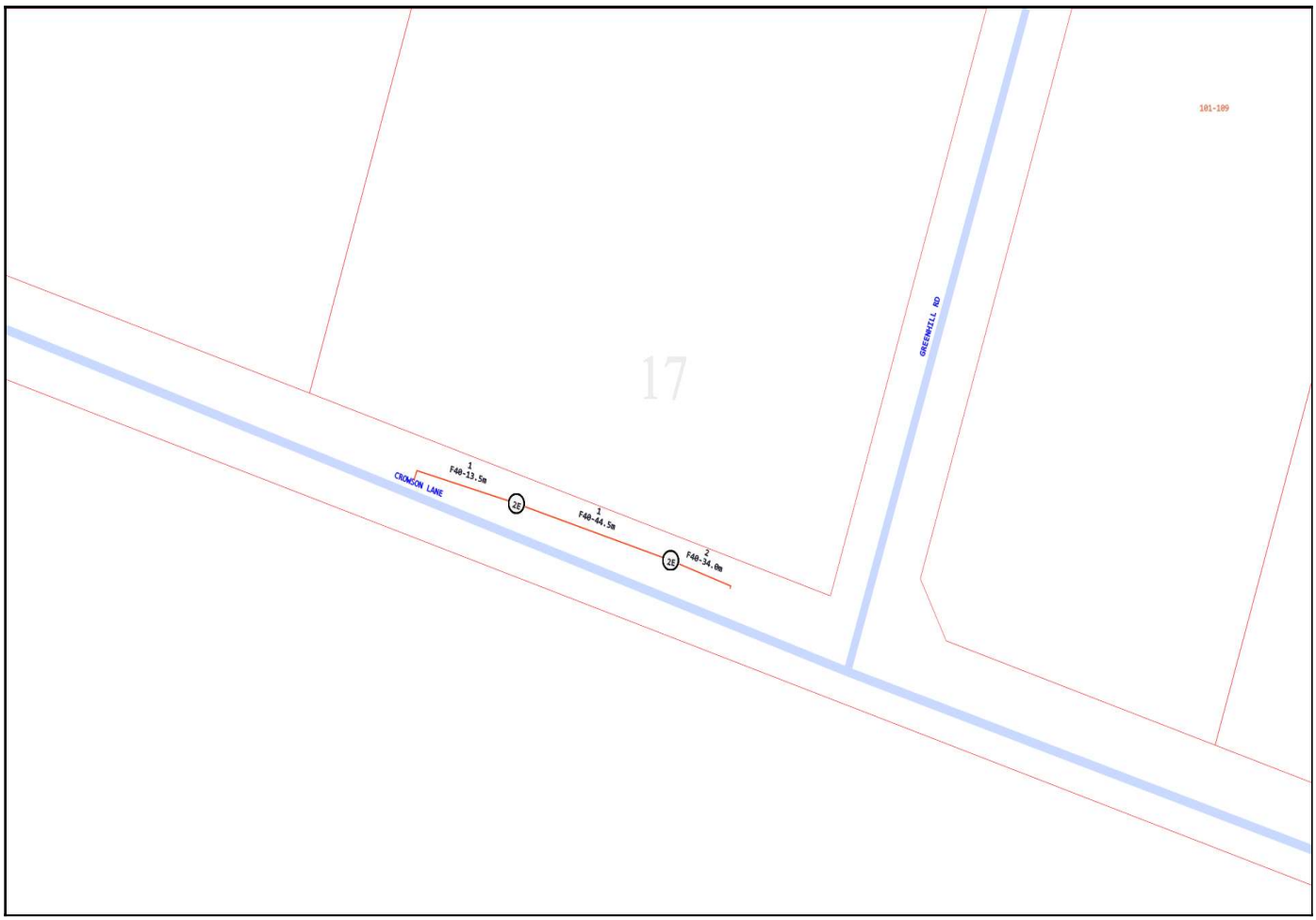
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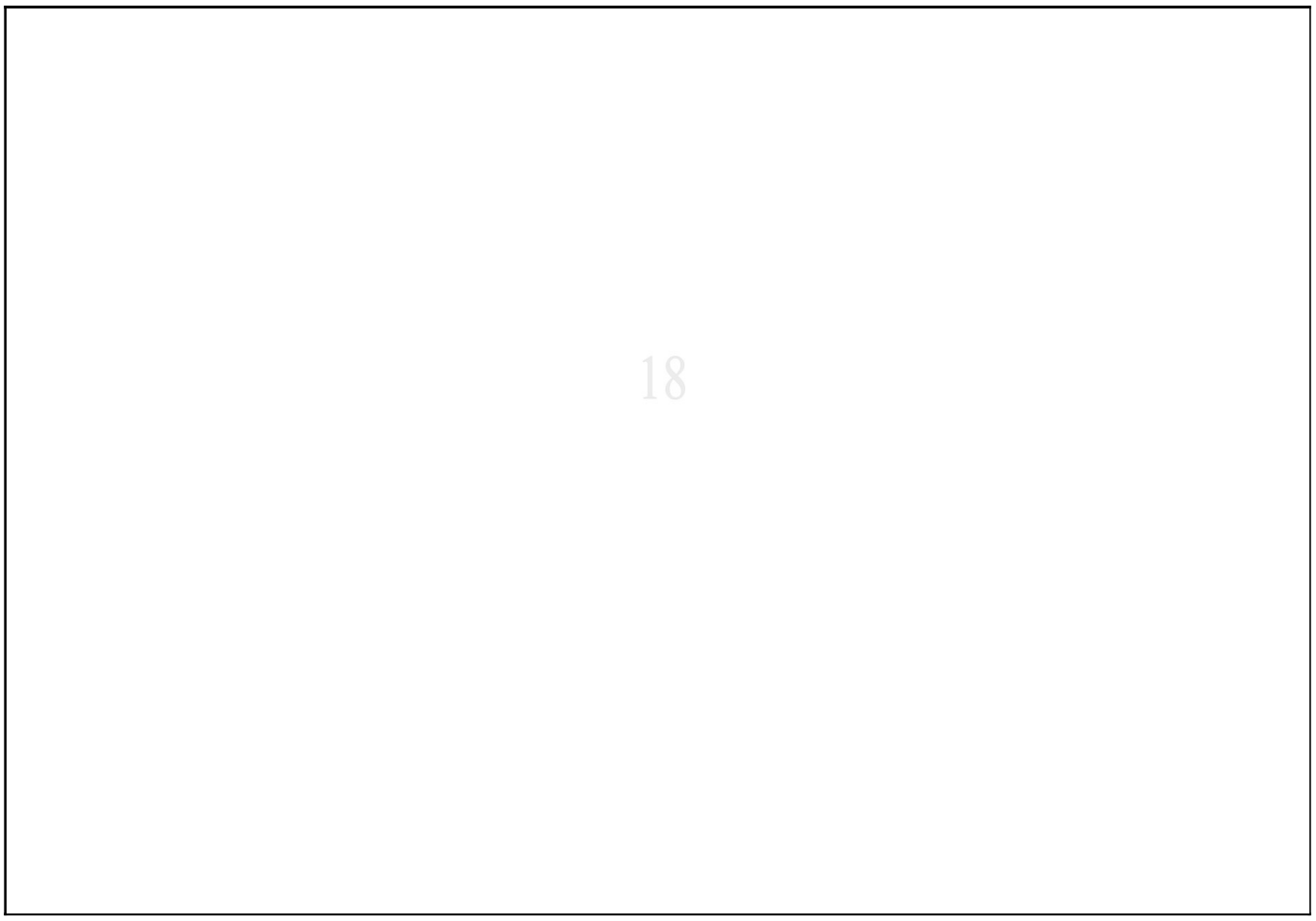
101-109
GREENHILL RD
CROMSON LANE
1
F40-13.5m
2E
1
F40-44.5m
2E
2
F40-34.0m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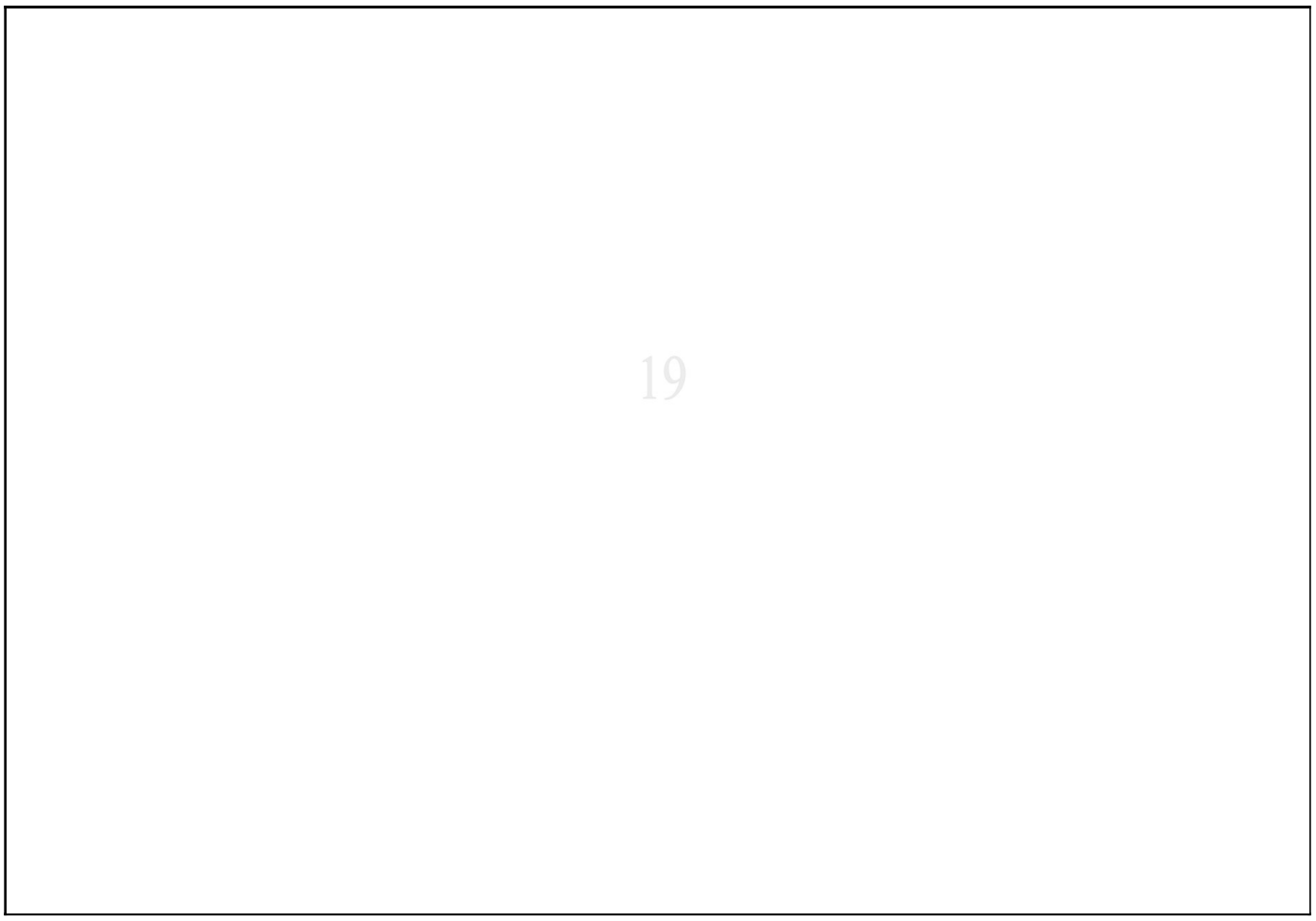
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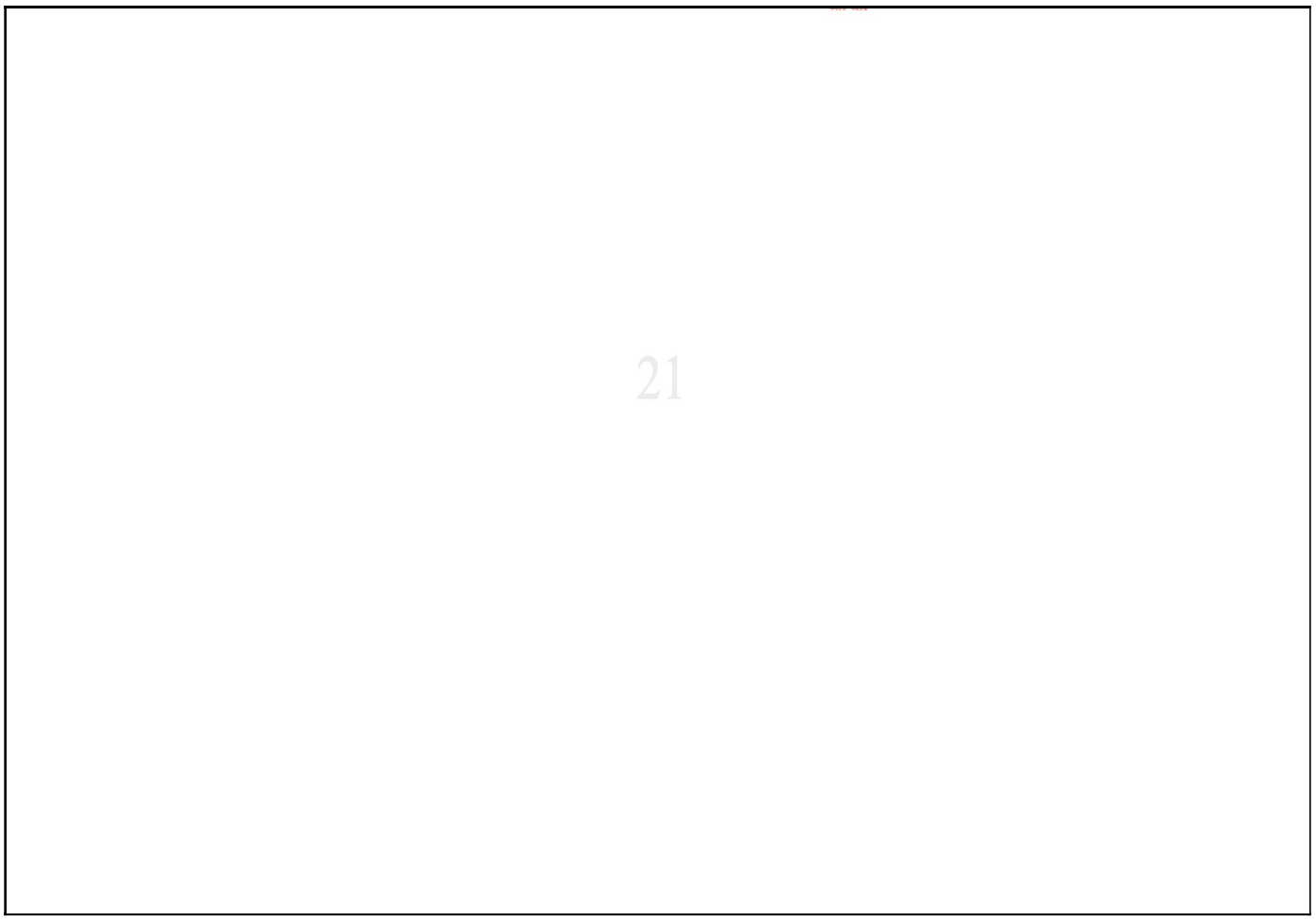

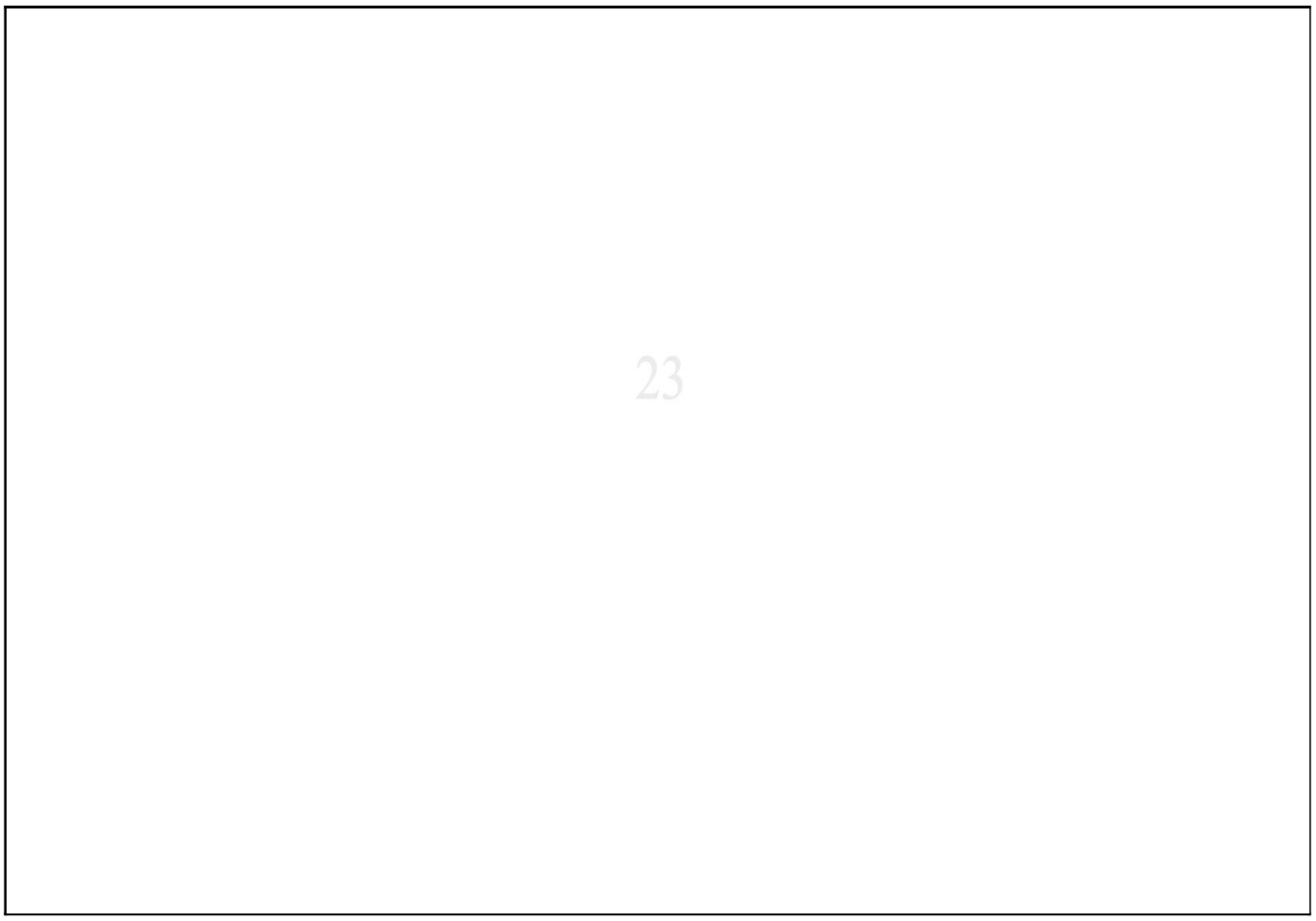
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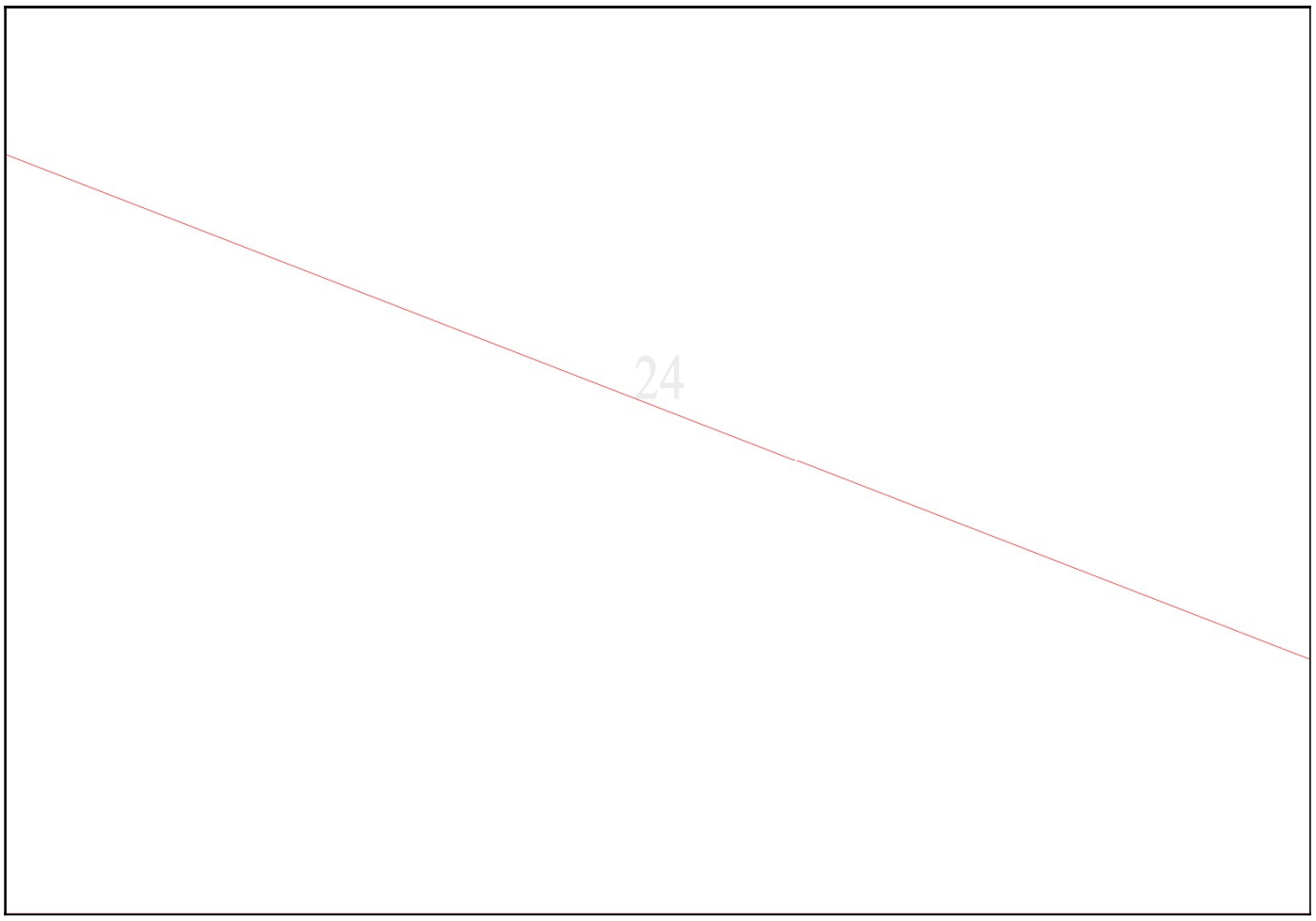
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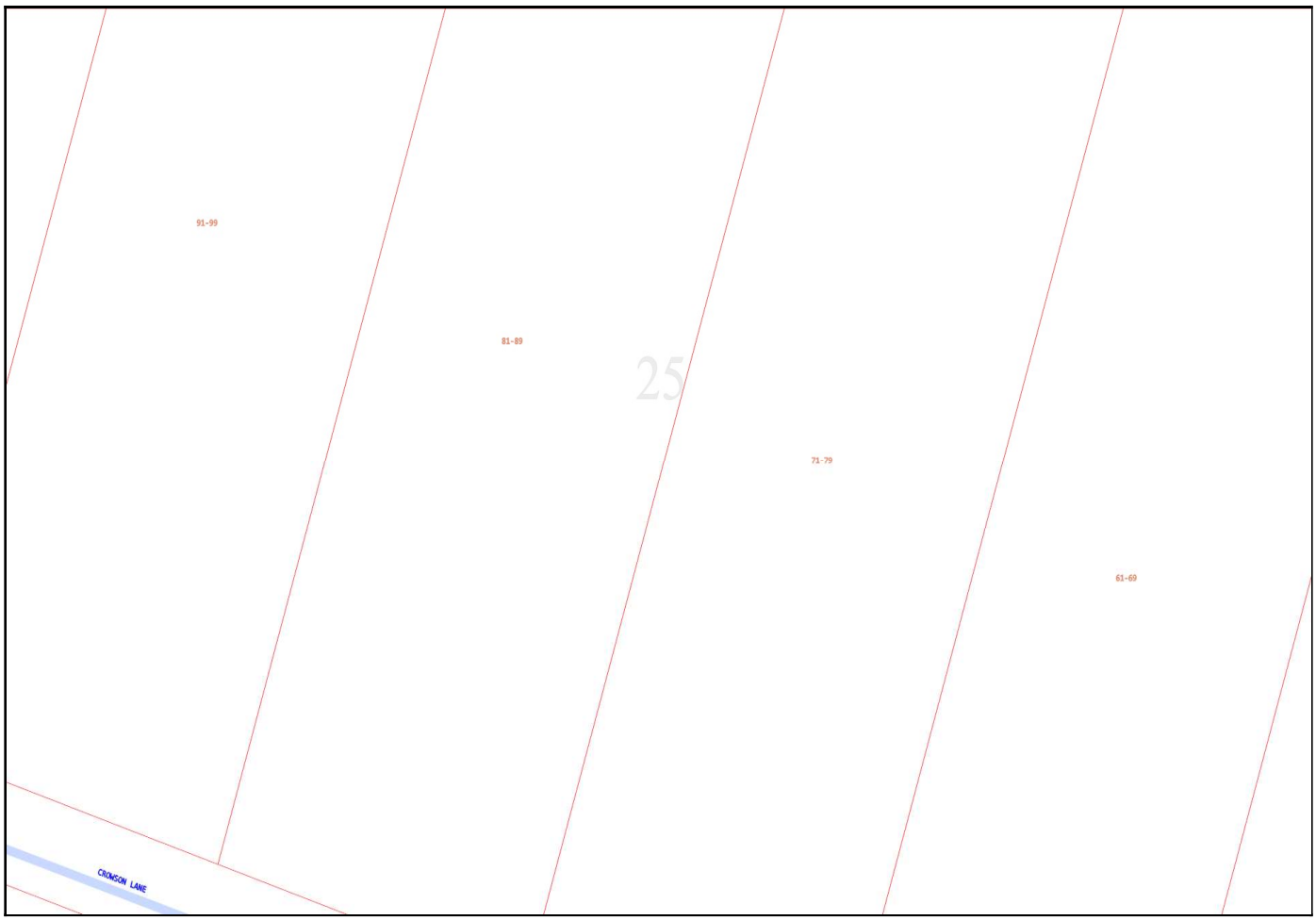
91-99
81-89
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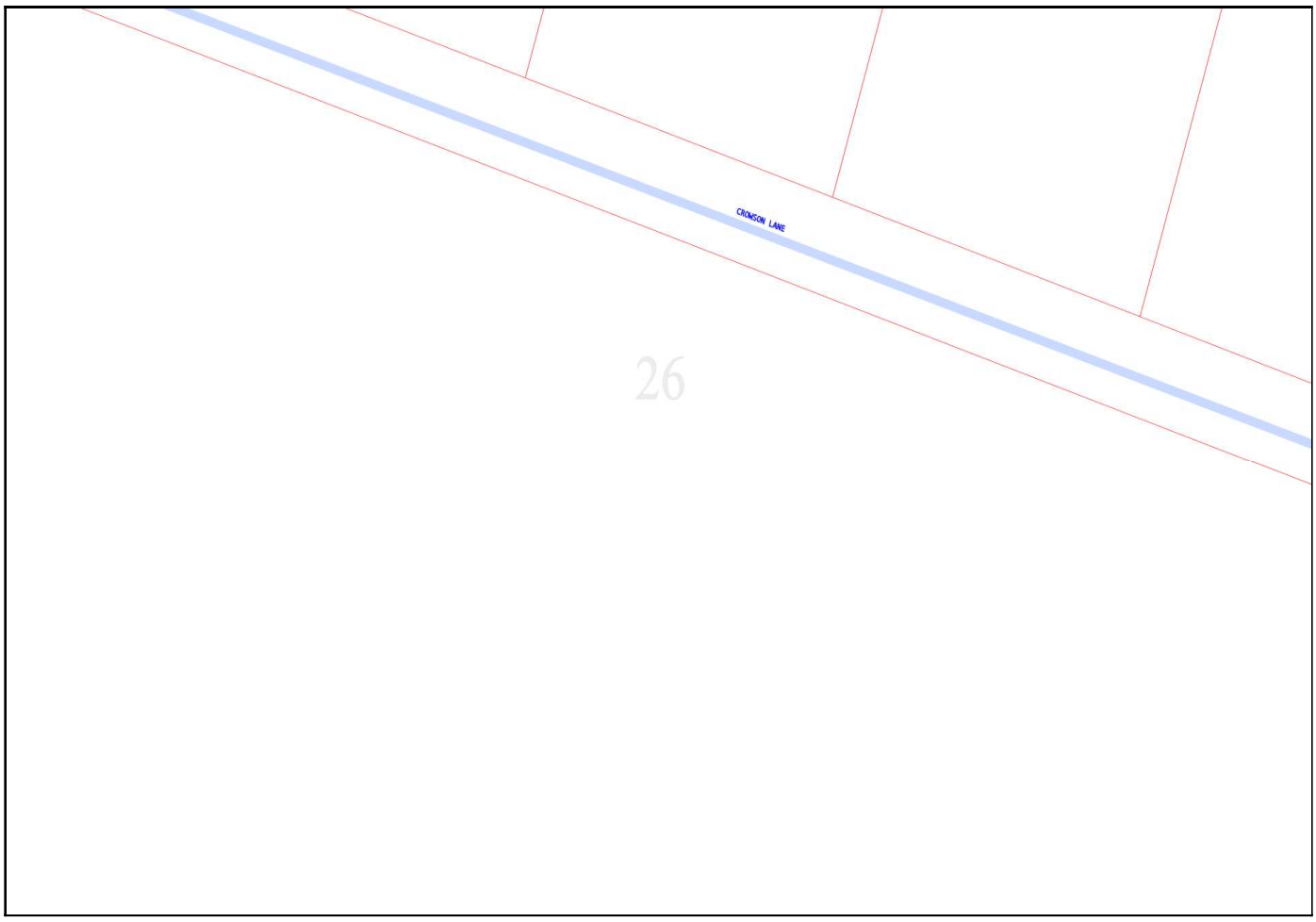
71-79
61-69
CROMSON LANE


CROXSON LANE
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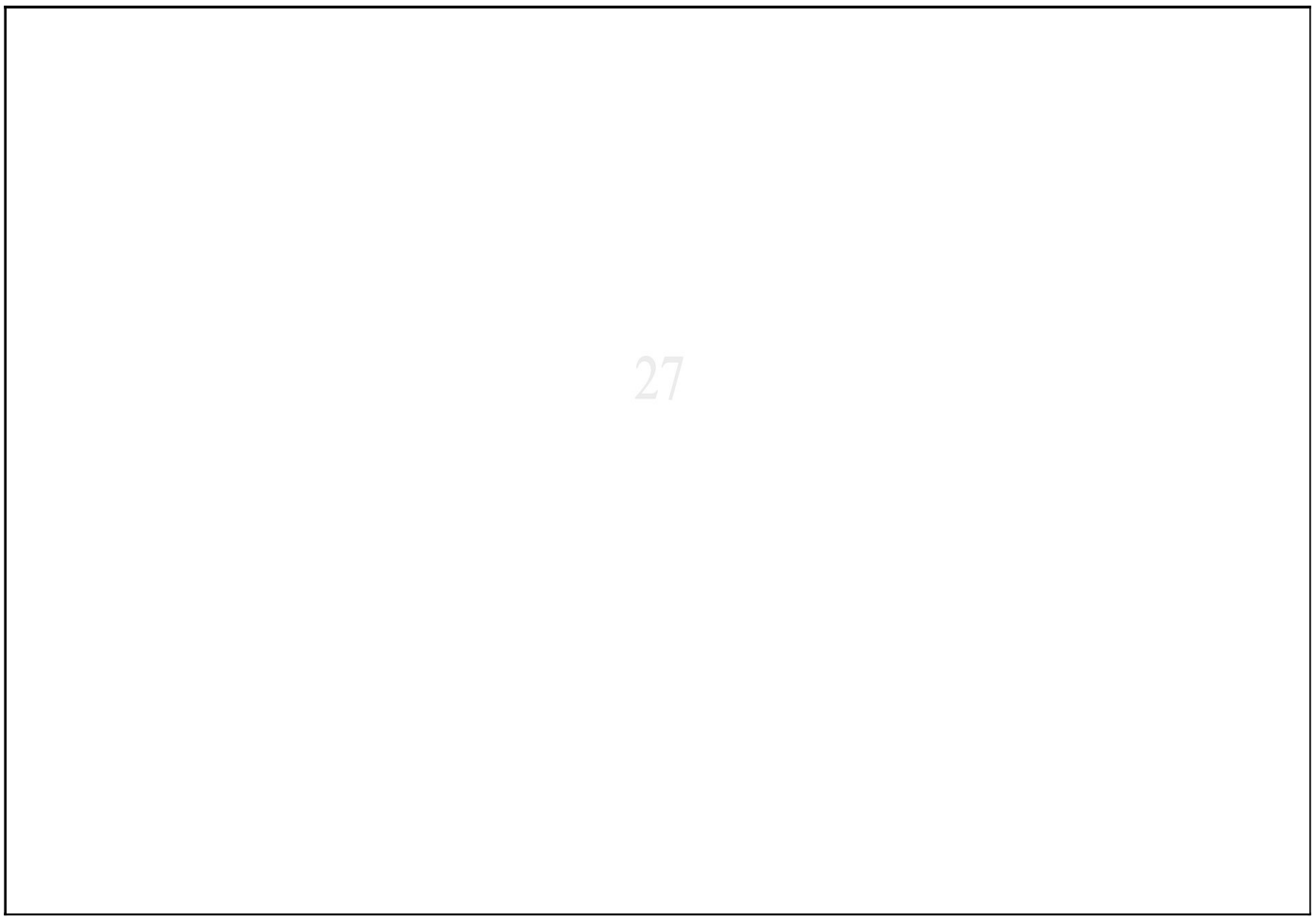
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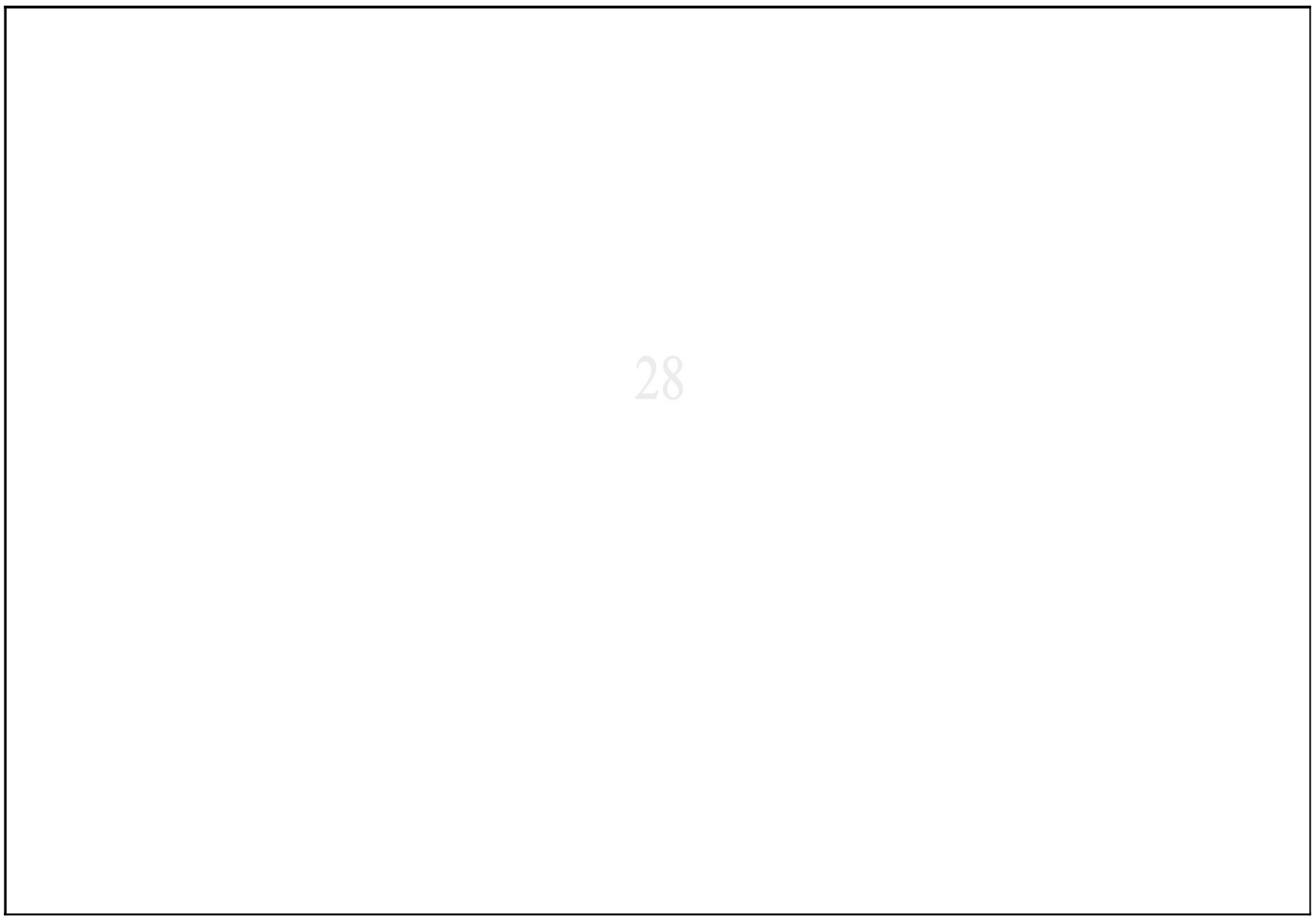
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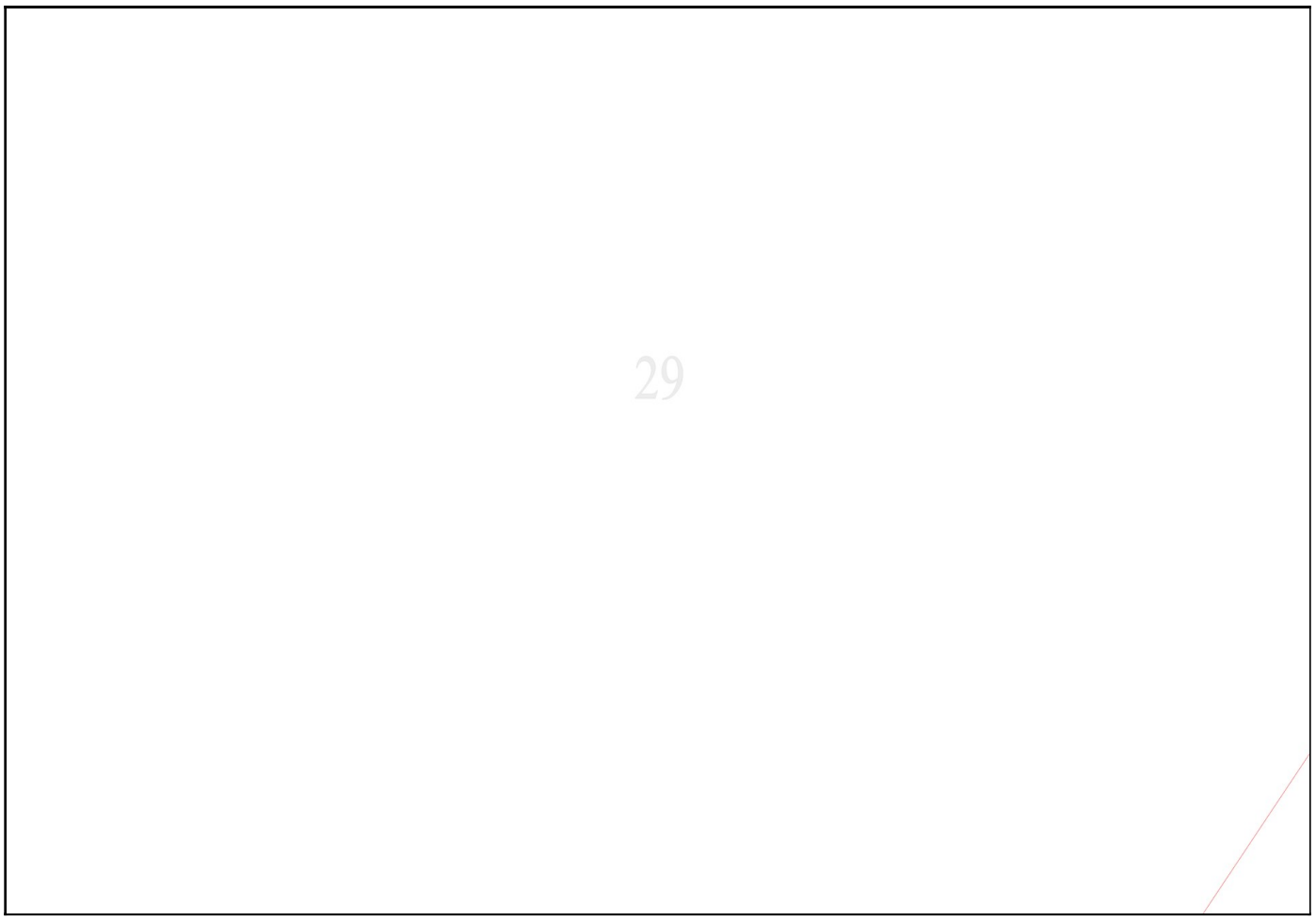
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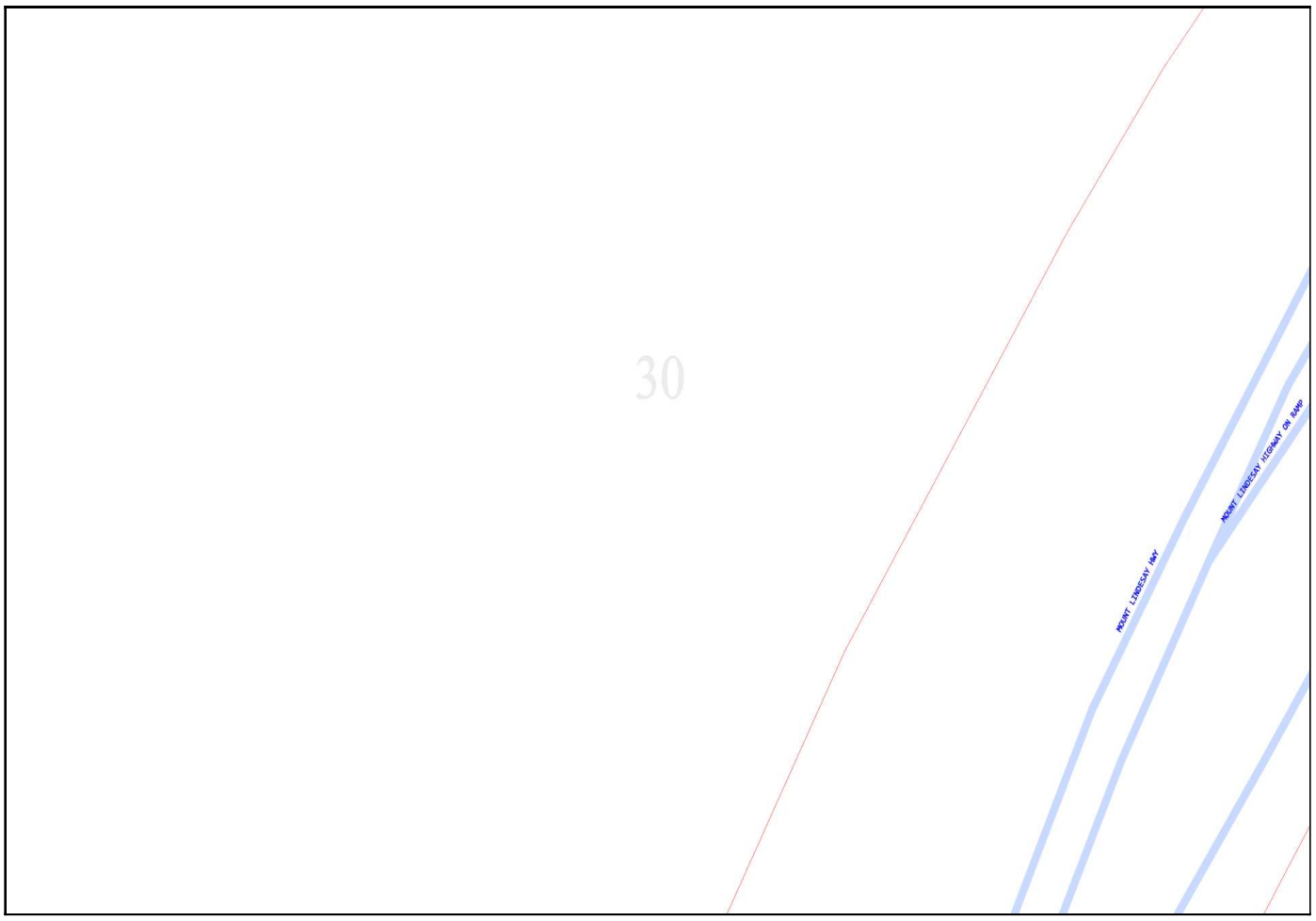
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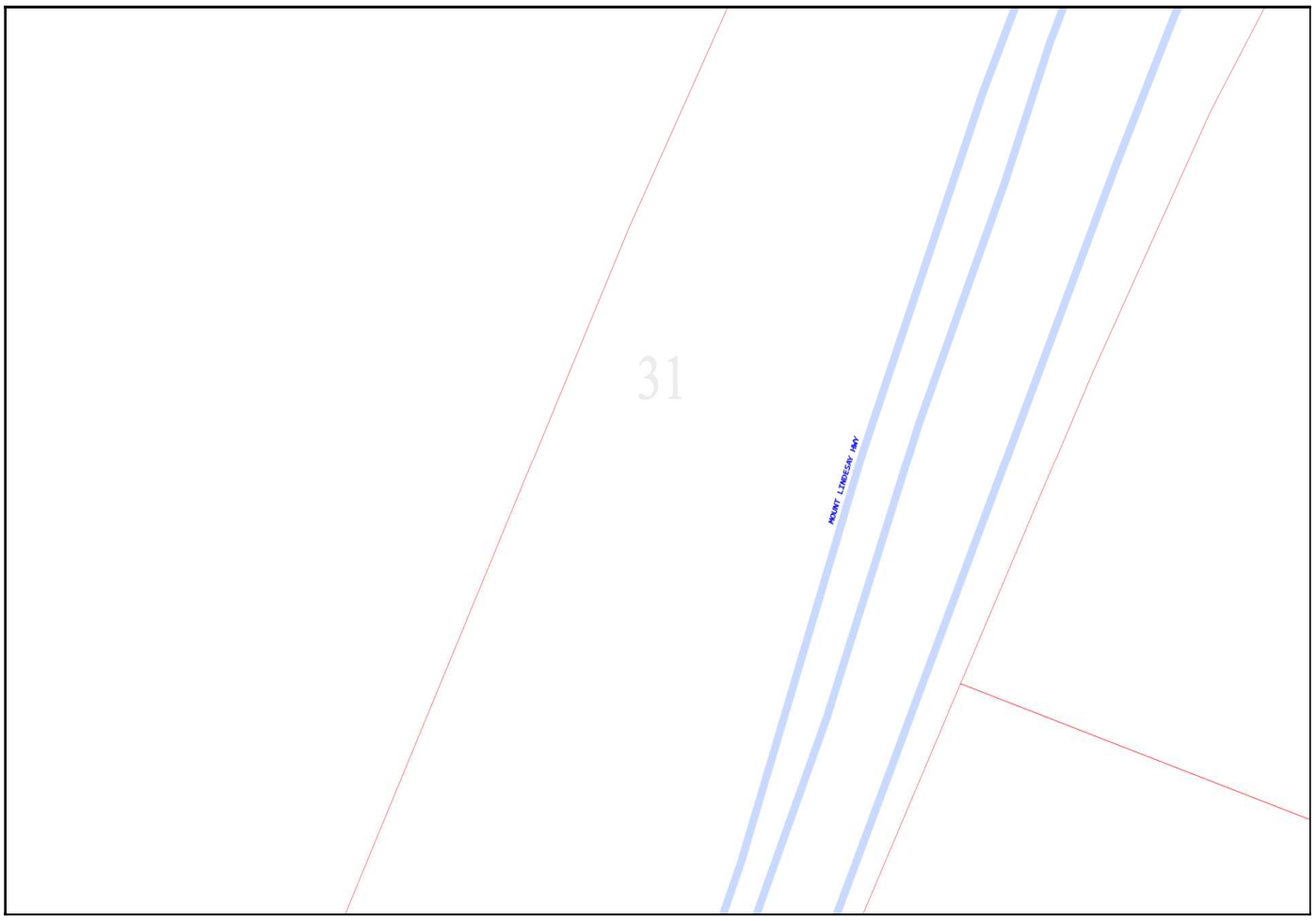
MOUNT LINDESAY HWY
MOUNT LINDESAY HIGHWAY ON RAMP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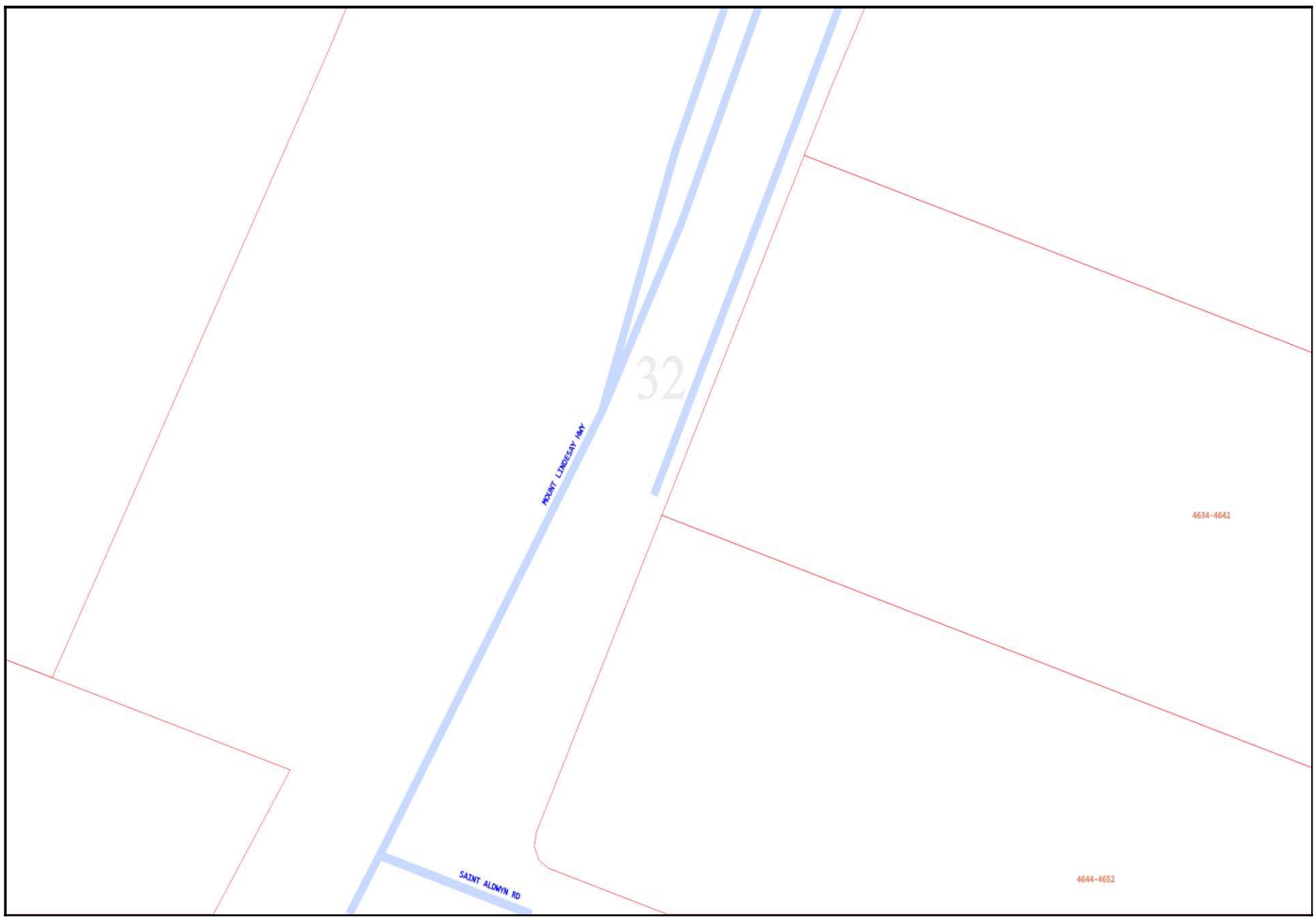
MOUNT LINDESAY HWY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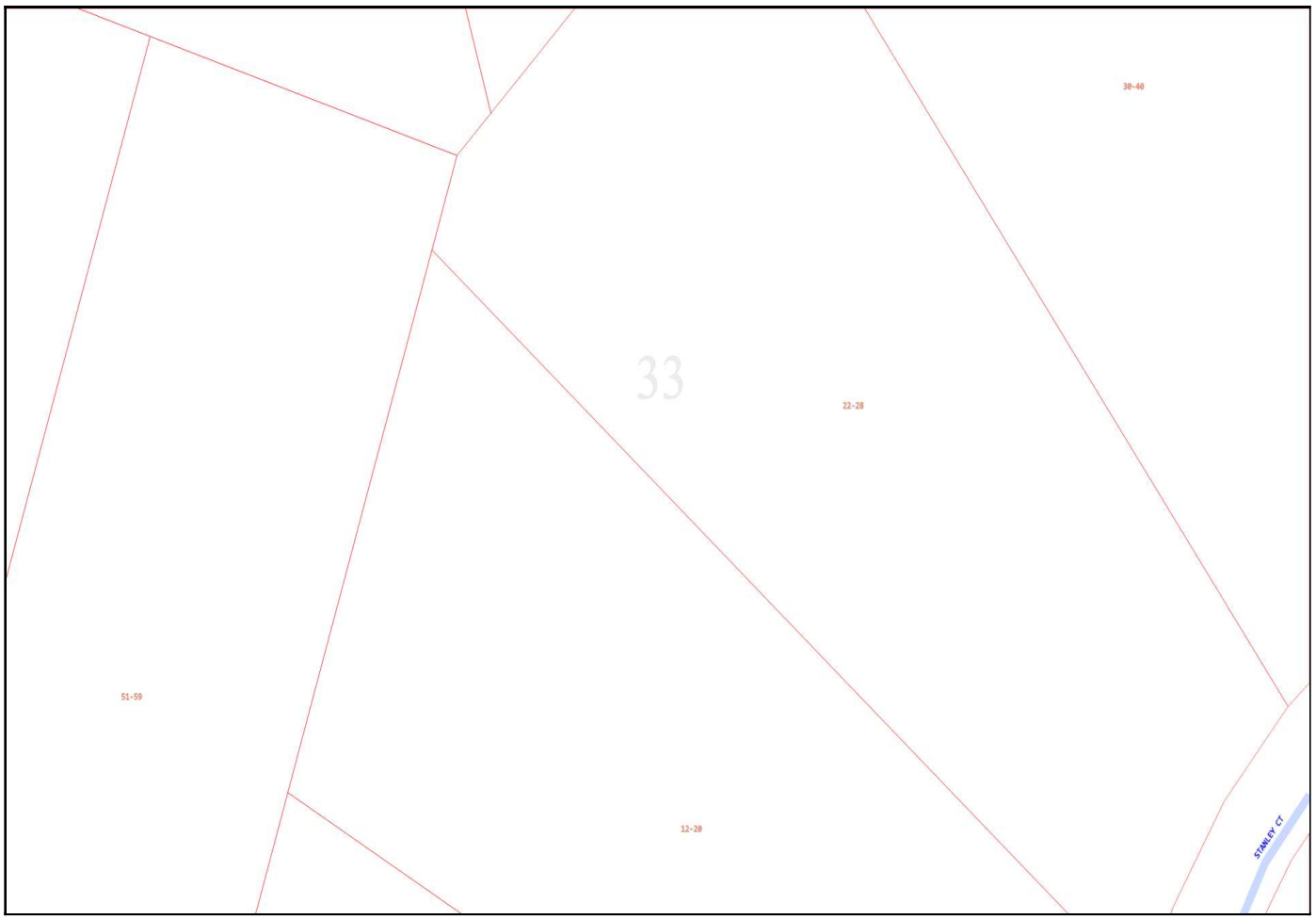
MOUNT LINDESAY HWY
SAINT ALDWYN RD
4634-4642
4644-4652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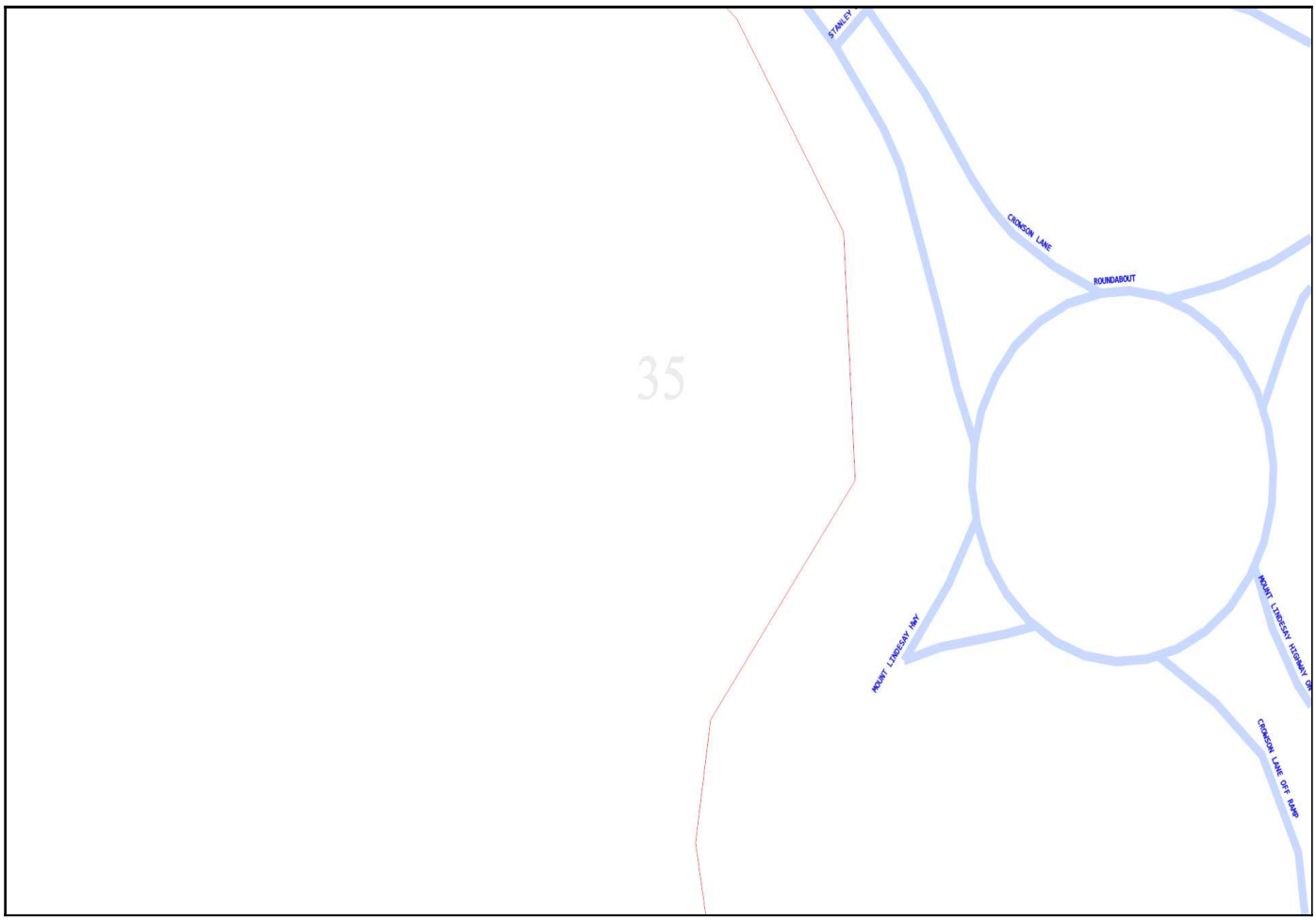
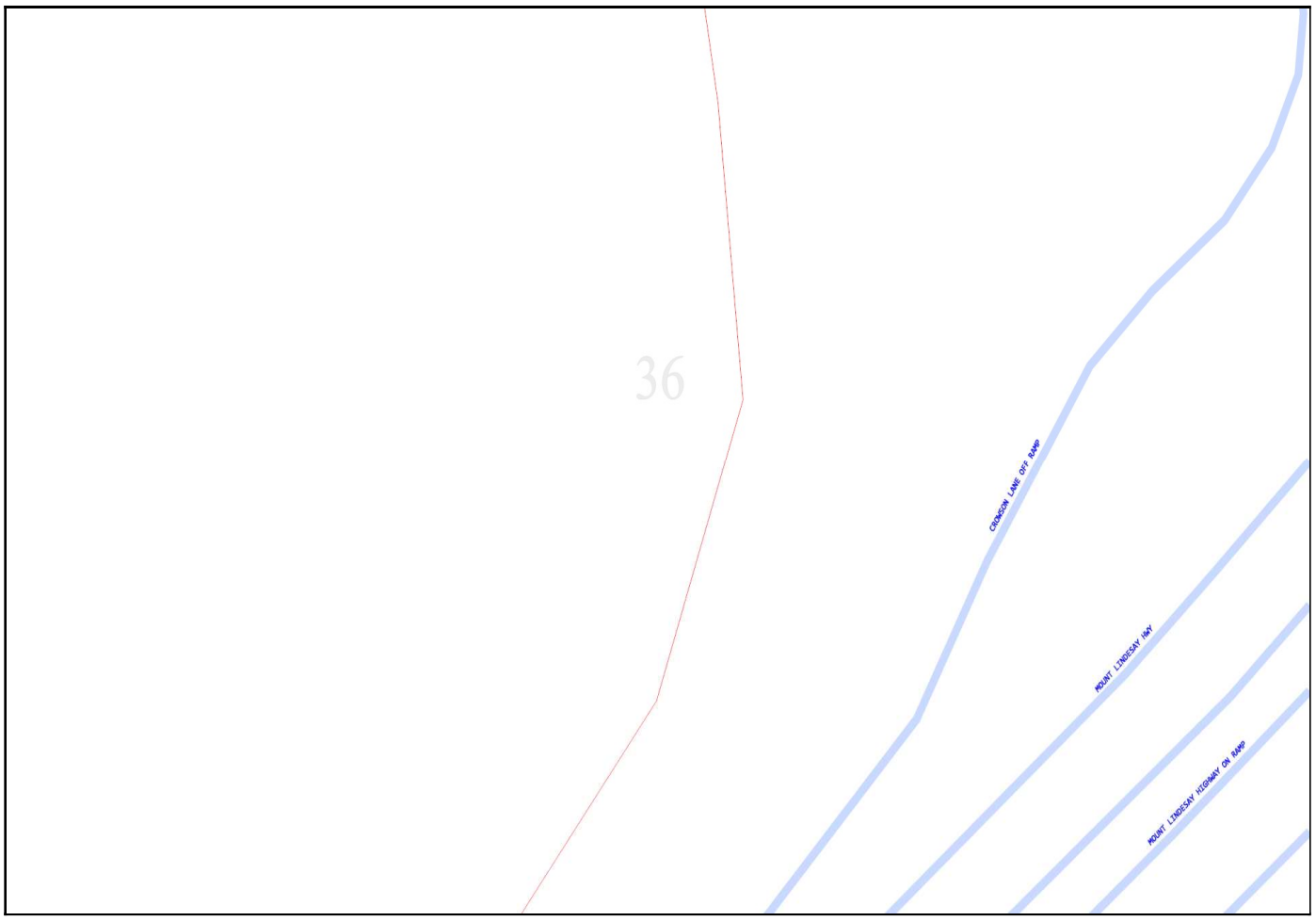
51-59
12-20
STANLEY CT

2-10
34
CROXTON LANE
STANLEY CT


STANLEY
CROXDON LANE
ROUNDABOUT
35
MOUNT LINDESAY WAY
MOUNT LINDESAY HIGHWAY OFF
CROXDON LANE OFF RAMP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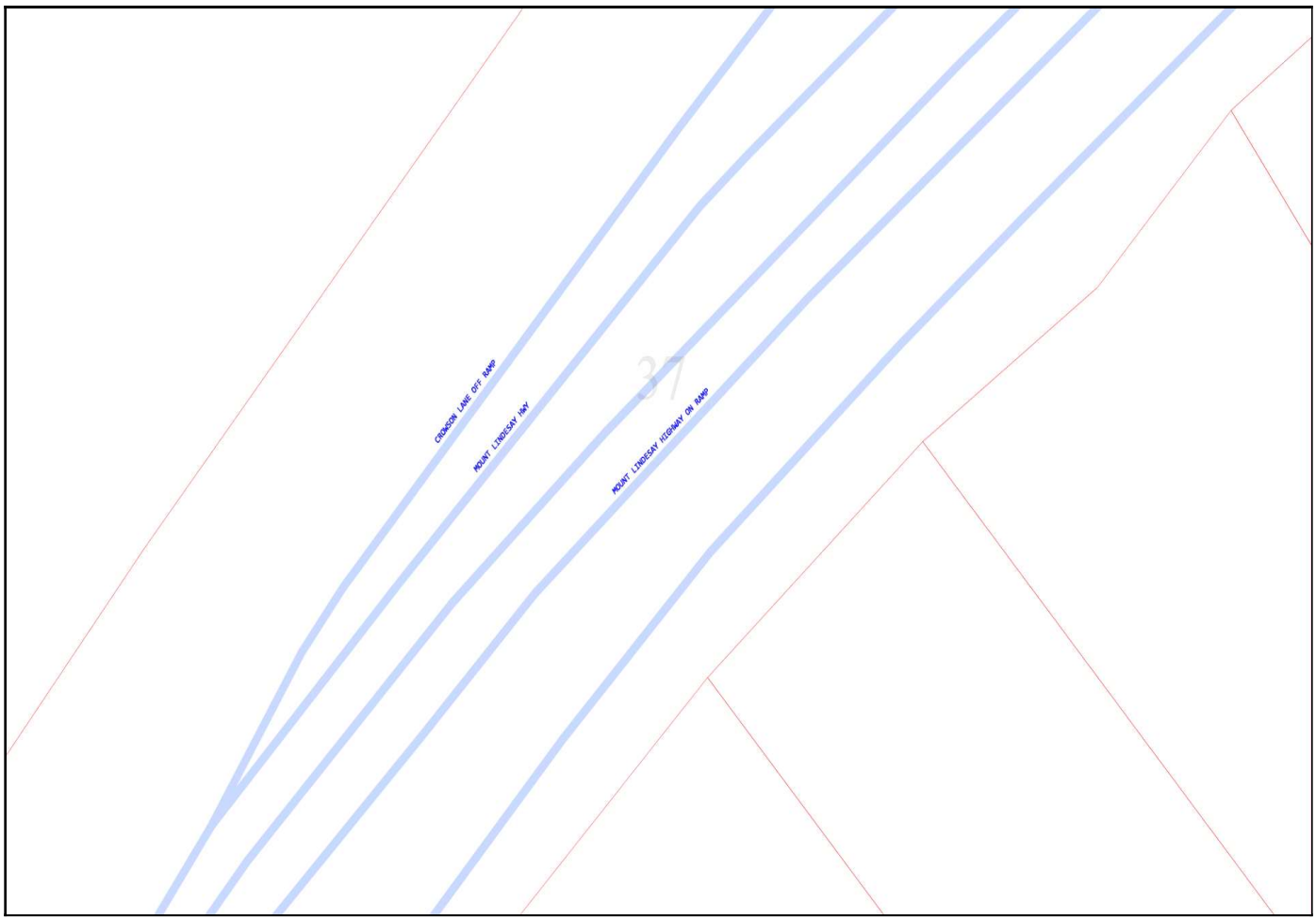
CROMDOM LANE OFF RAMP
MOUNT LINDESAY HWY
MOUNT LINDESAY HIGHWAY ON RAMP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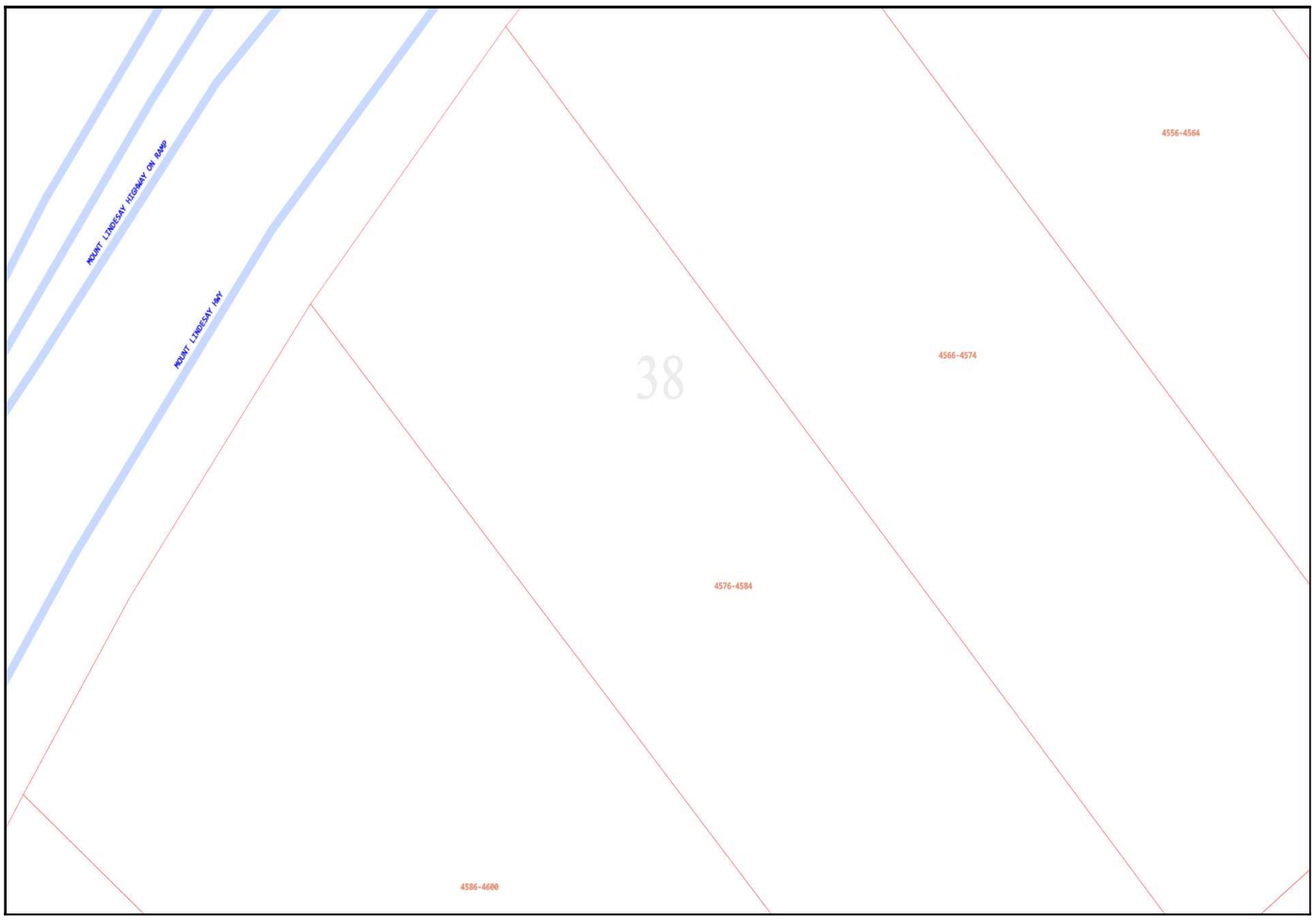
MOUNT LINDESAY HWY
MOUNT LINDESAY HIGHWAY ON RAMP


MOUNT LINDESAY HIGHWAY ON RAMP
MOUNT LINDESAY HWY
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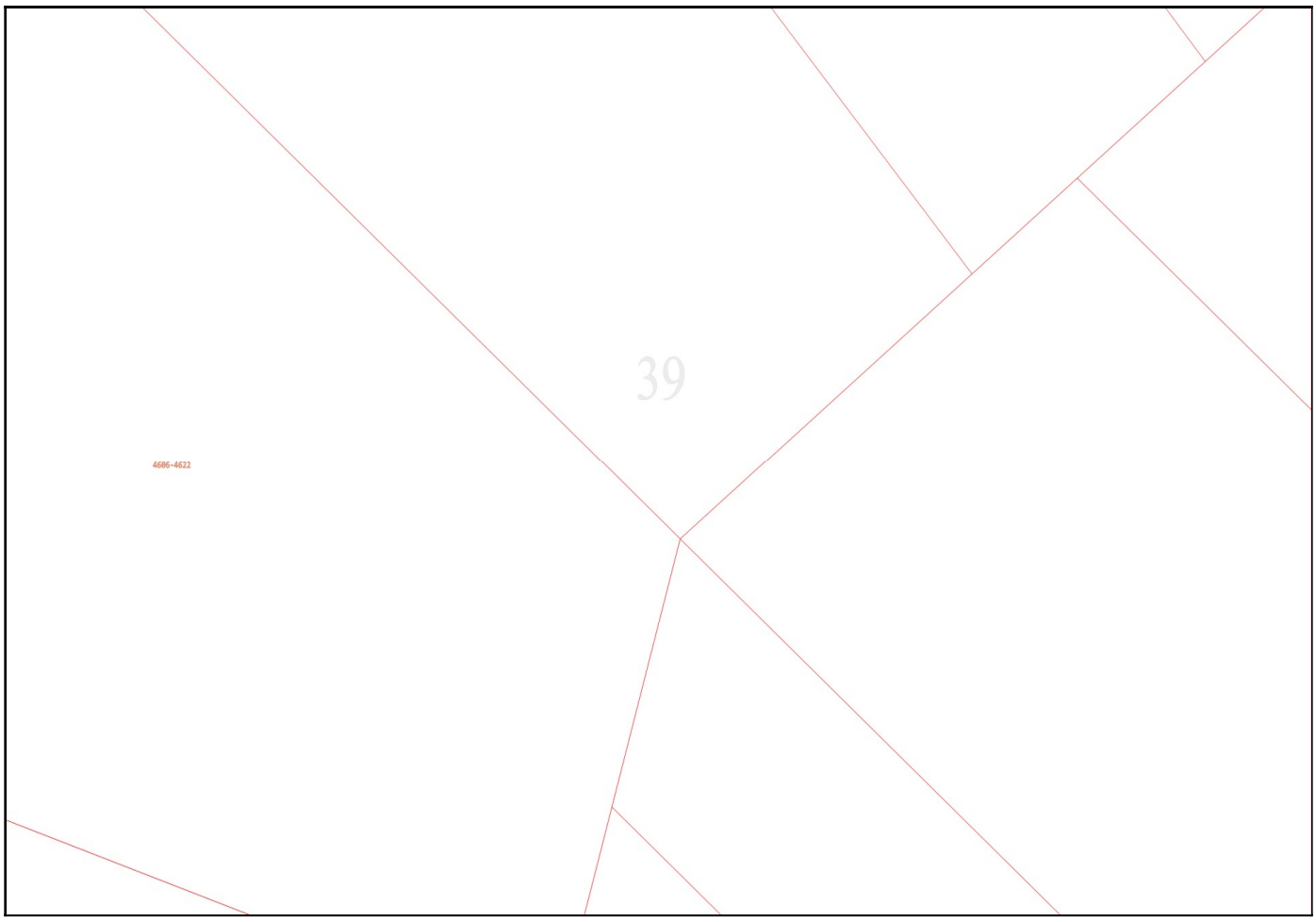
4576-4584
4586-4600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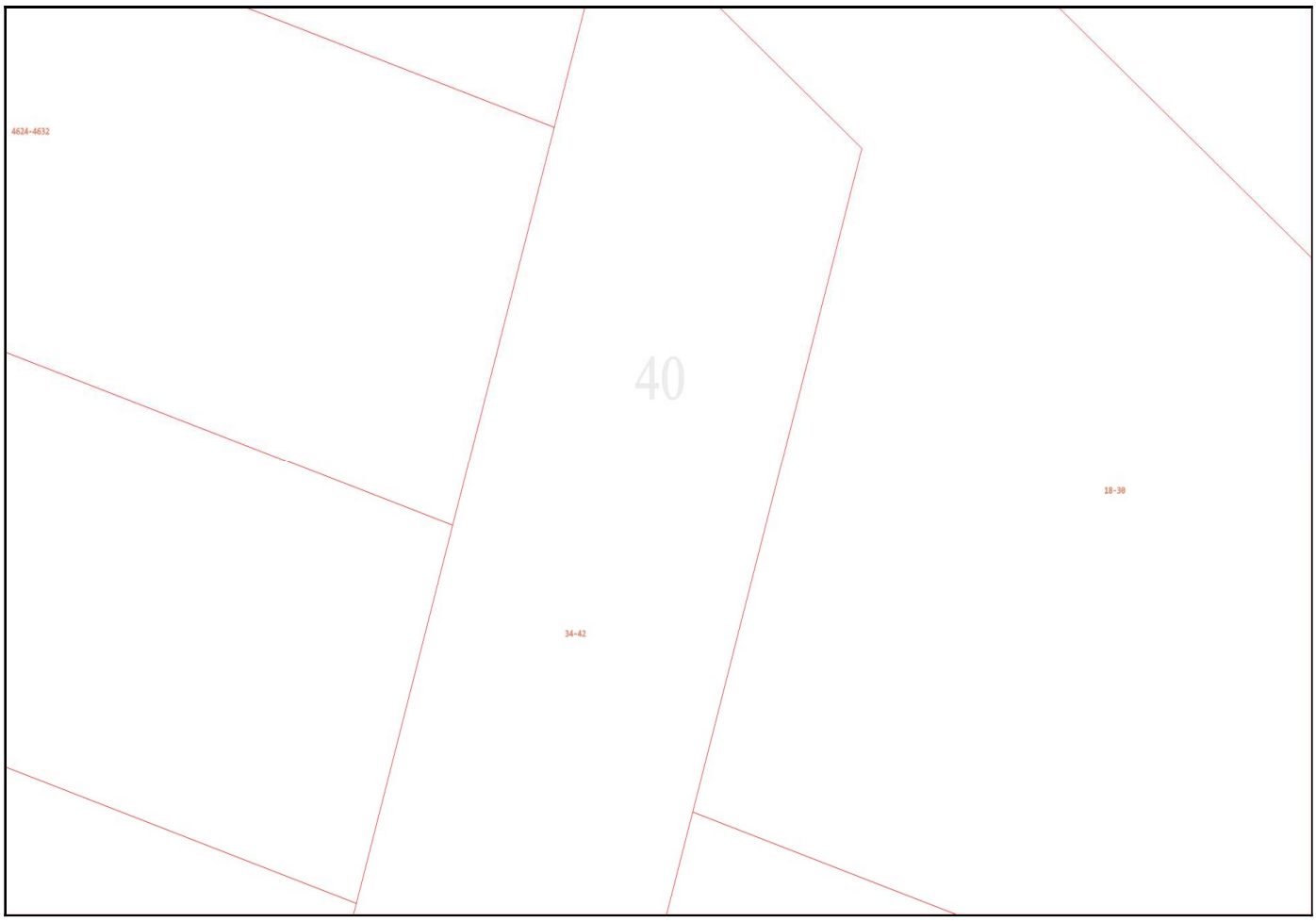


Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.

To:	Ali Reza Haghjoo
Phone:	Not Supplied
Fax:	Not Supplied
Email:	ali.haghjoo@costinroe.com.au

Dial before you dig Job #:	35169228
Sequence #	230346156
Issue Date:	03/10/2023
Location:	Oaklands 4499-4651 Mount Lindesay Hwy , North Maclean , QLD , 4280

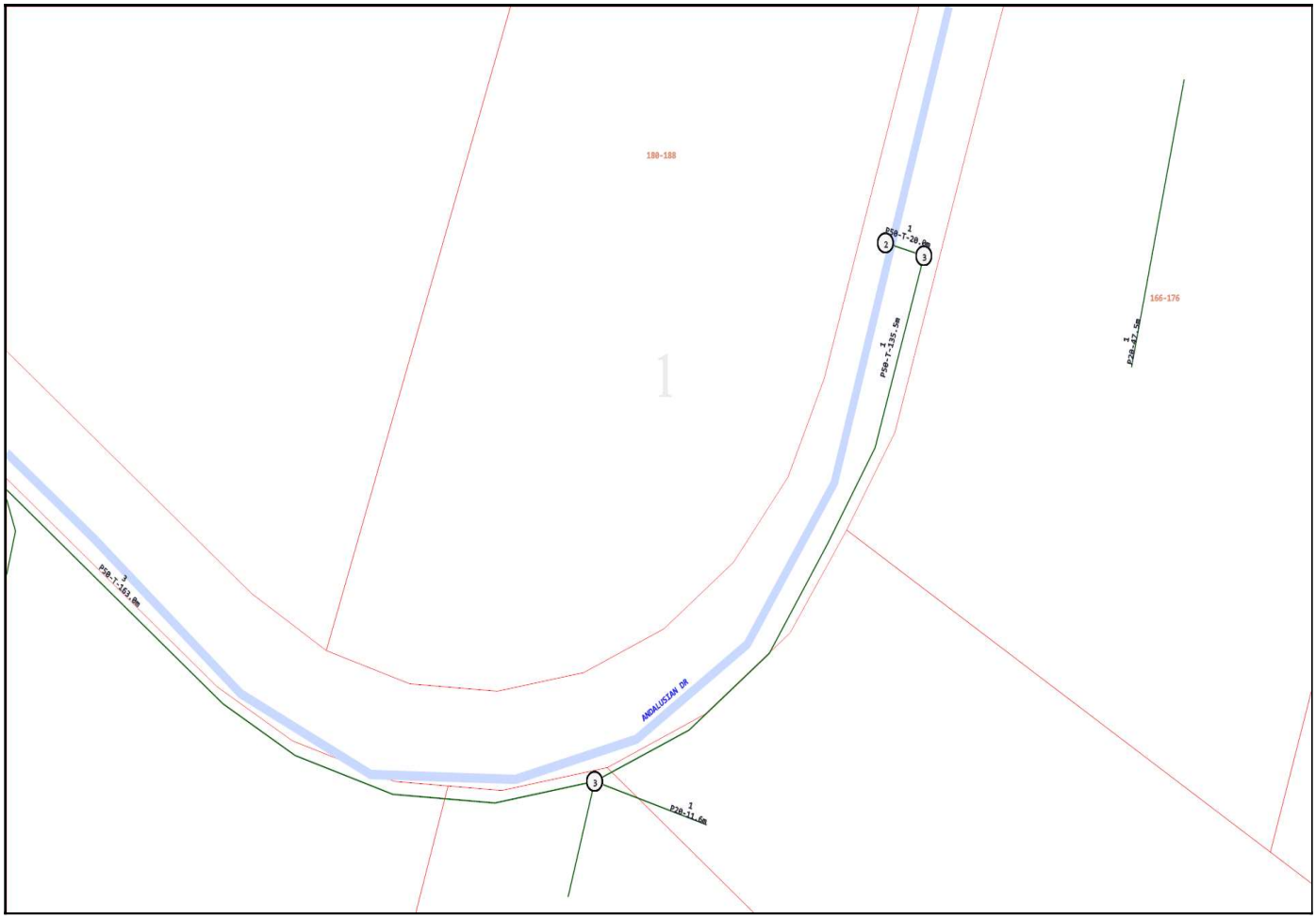
DIAL BEFORE YOU DIG www.1100.com.au

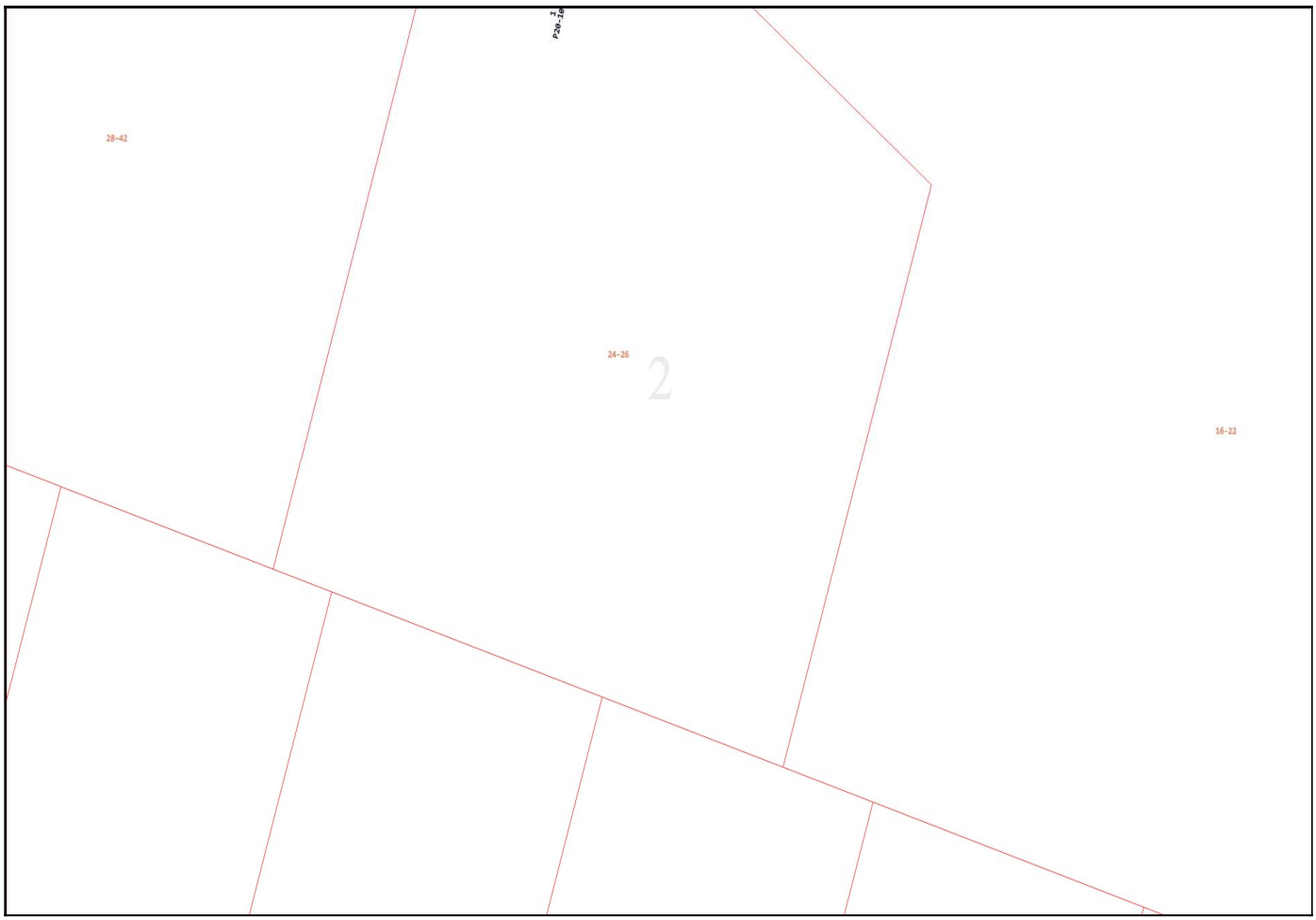
Indicative Plans

2	10	18	26	34
3	11	19	27	35
4	12	20	28	36
5	13	21	29	37
6	14	22	30	38
7	15	23	31	39
8	16	24	32	40

LEGEND

34	Parcel and the location
5	Pit with size "5"
2E	Power Pit with size "2E". Valid PIT Size: e.g. 2E, 5E, 6E, 8E, 9E, E, null.
	Manhole
	Pillar
2 PO – T- 25.0m P40 – 20.0m 5 9	Cable count of trench is 2. One "Other size" PVC conduit (PO) owned by Telstra (-T-), between pits of sizes, "5" and "9" are 25.0m apart. One 40mm PVC conduit (P40) owned by NBN, between pits of sizes, "5" and "9" are 20.0m apart.
2 10.0m 5 9	2 Direct buried cables between pits of sizes ,"5" and "9" are 10.0m apart.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Copper/RF/Fibre) cables.
5 9	Trench containing only DESIGNED/PLANNED (Copper/RF/Fibre/Power) cables.
5 9	Trench containing any INSERVICE/CONSTRUCTED (Power) cables.
BROADWAY ST	Road and the street name "Broadway ST"
Scale	0 20 40 60 Meters 1:2000 1 cm equals 20 m


180-188
1
166-176
ANDALUSIAN DR
2
3
3
1
P28-T-28.0m
1
P28-T-135.5m
1
P28-T-135.5m
3
P28-T-163.6m
1
P28-11.6m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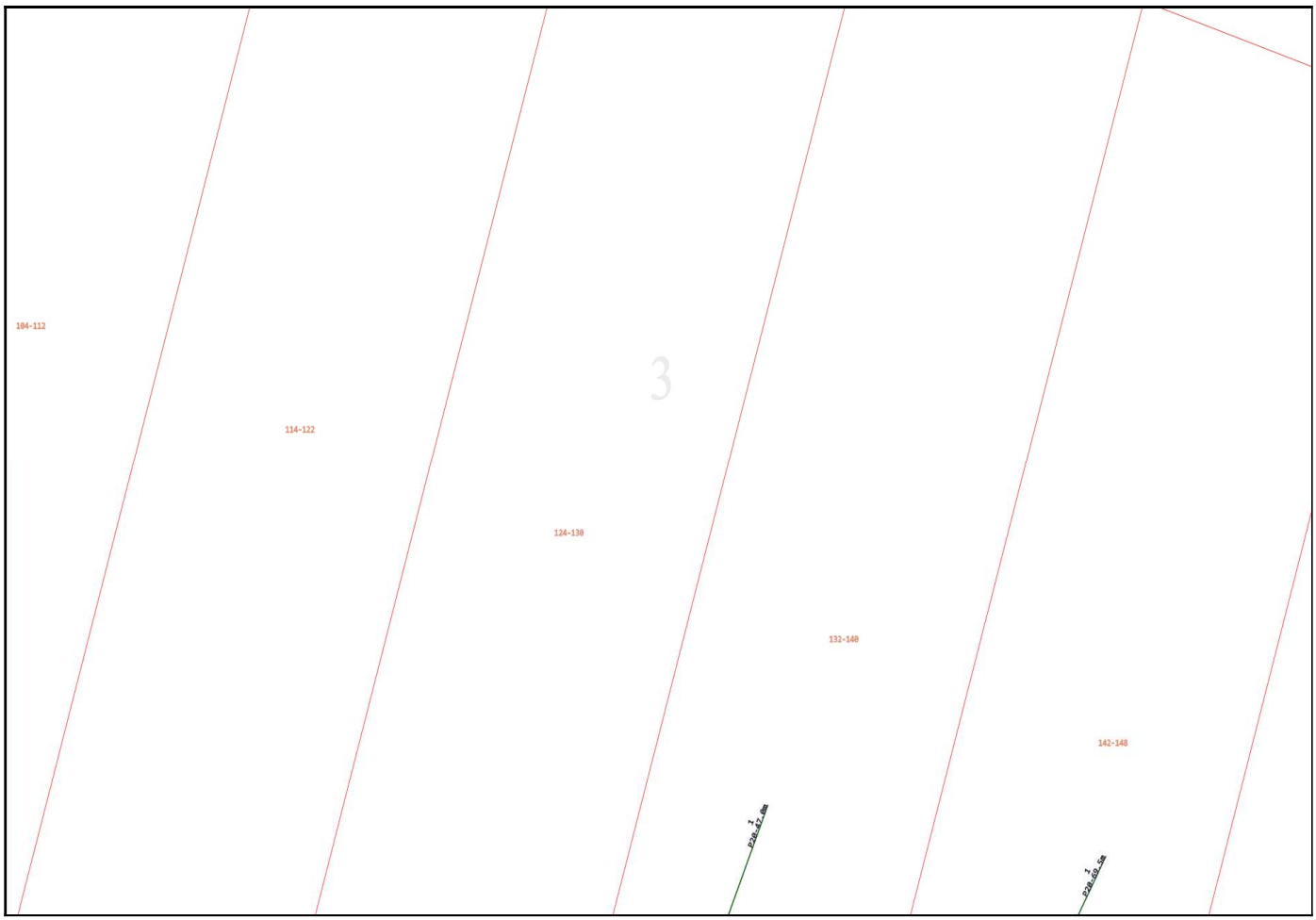
16-22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114-122
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132-140
142-148
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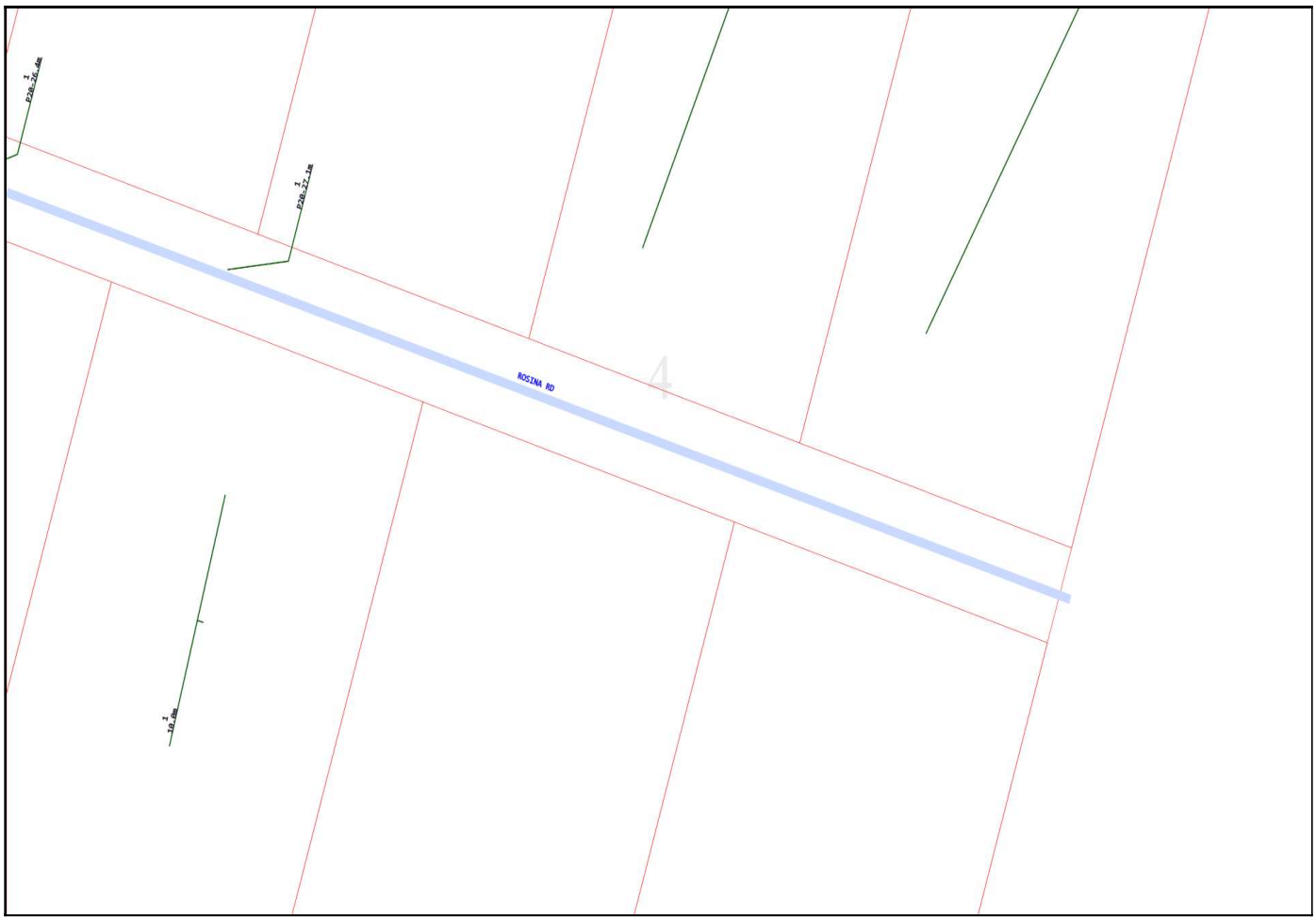
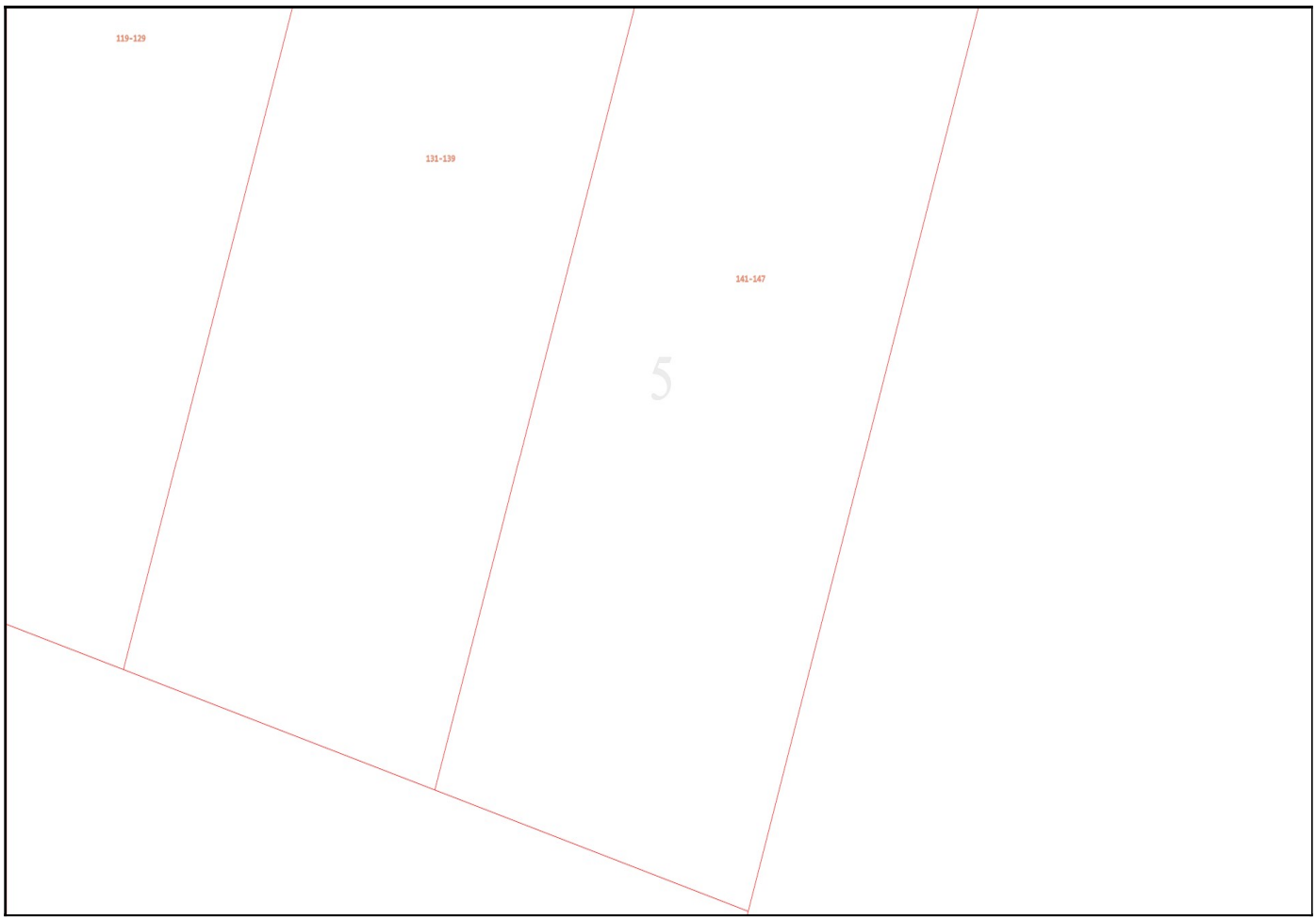

ROSINA RD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131-139
141-147
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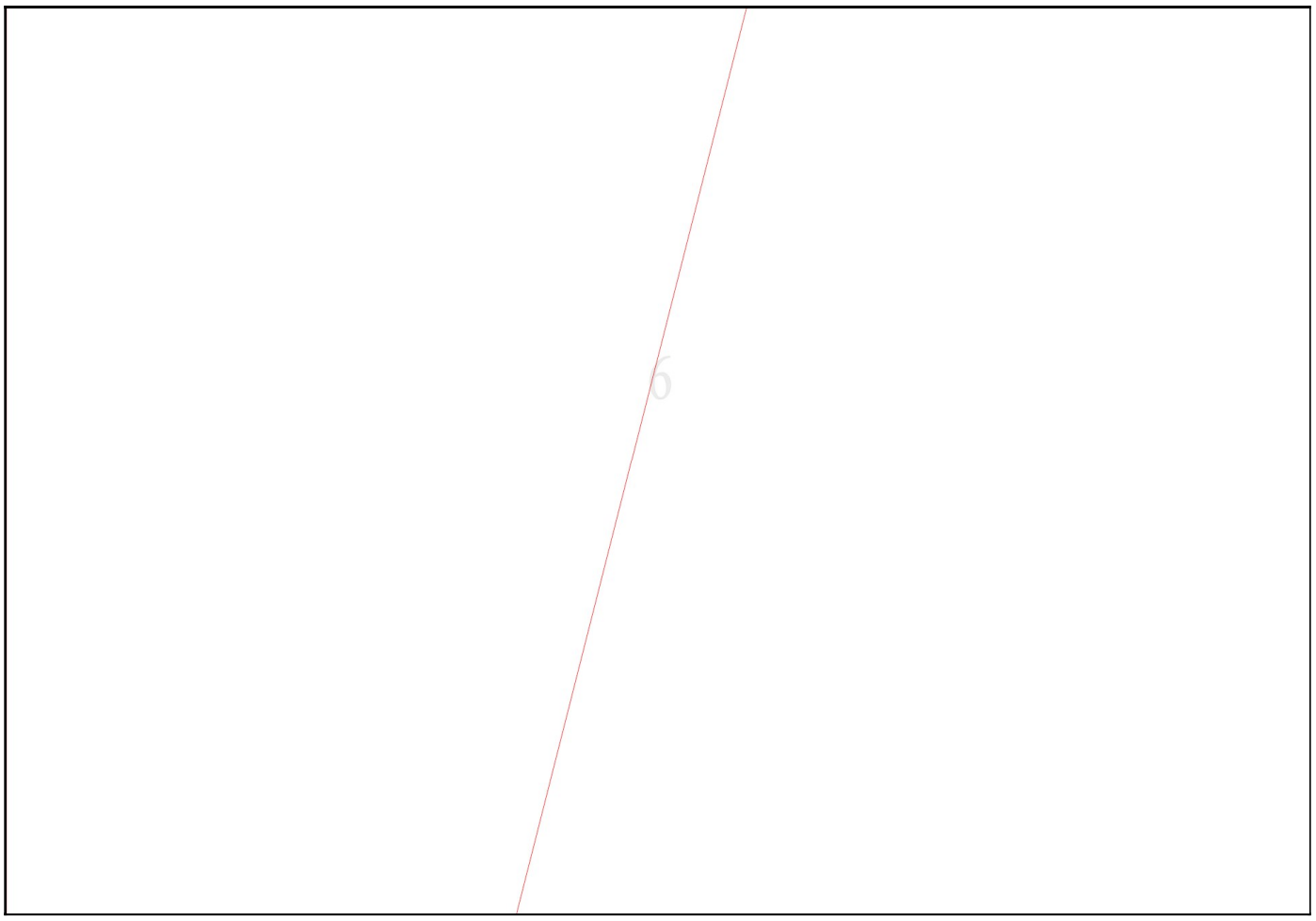

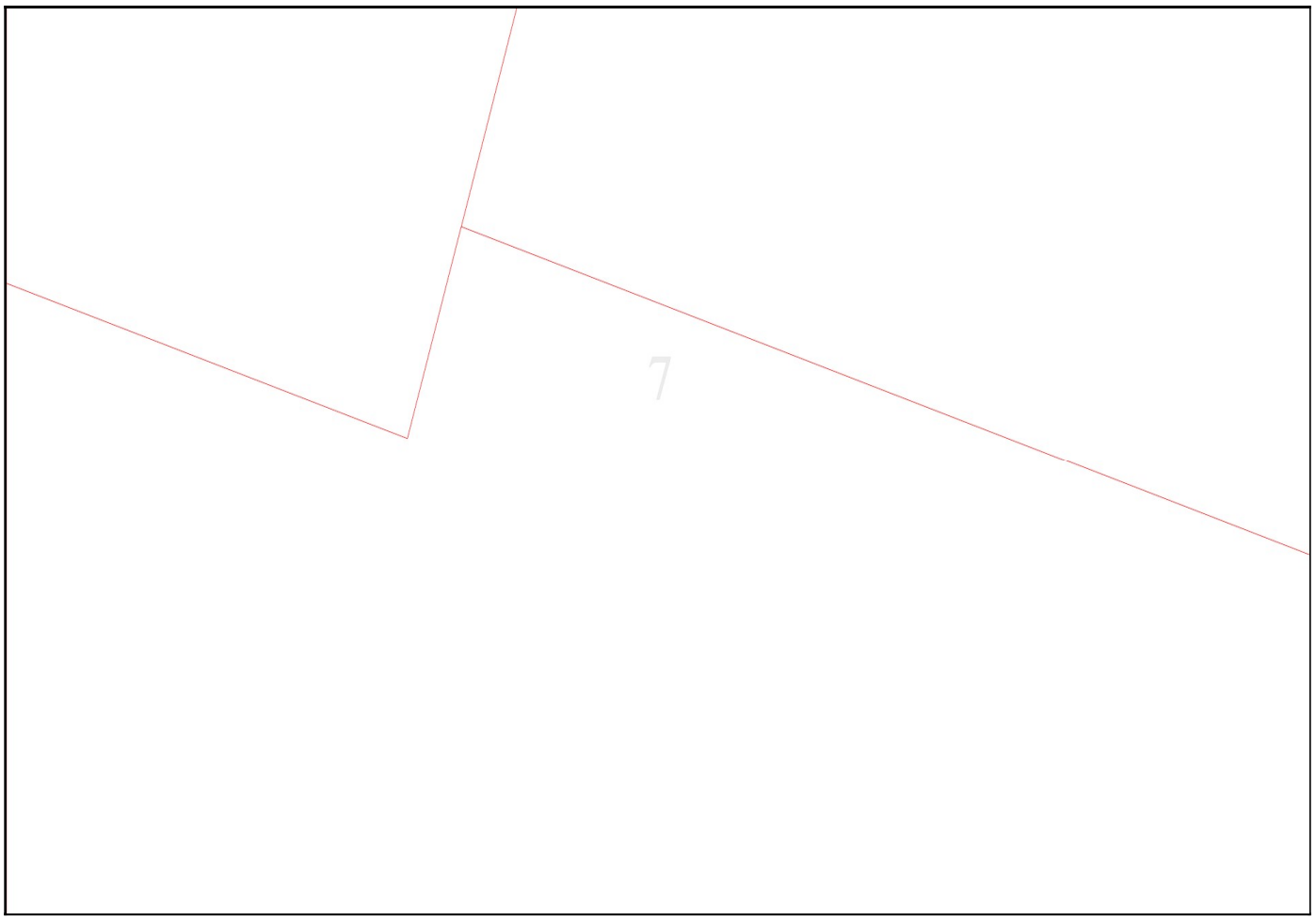
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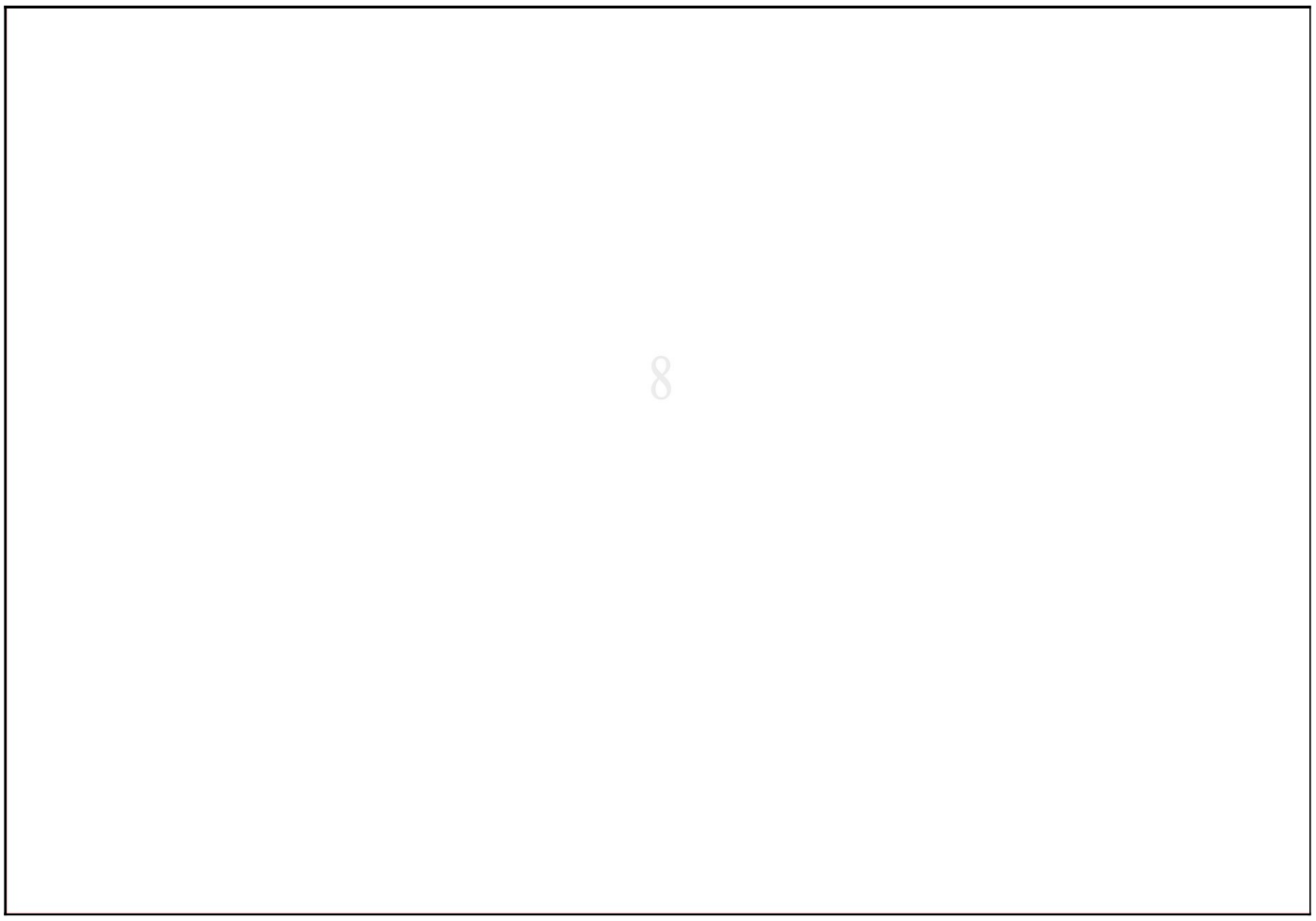

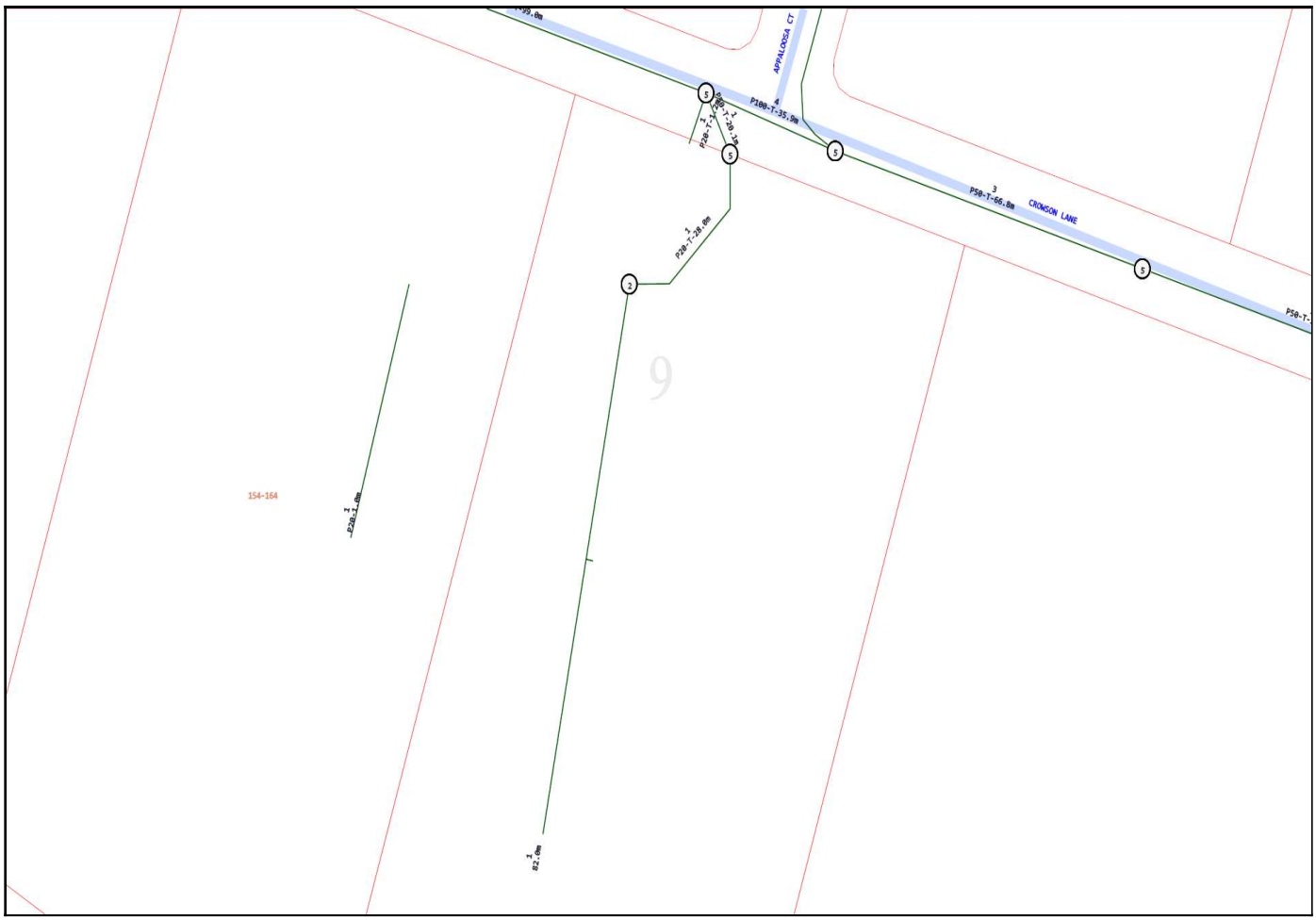
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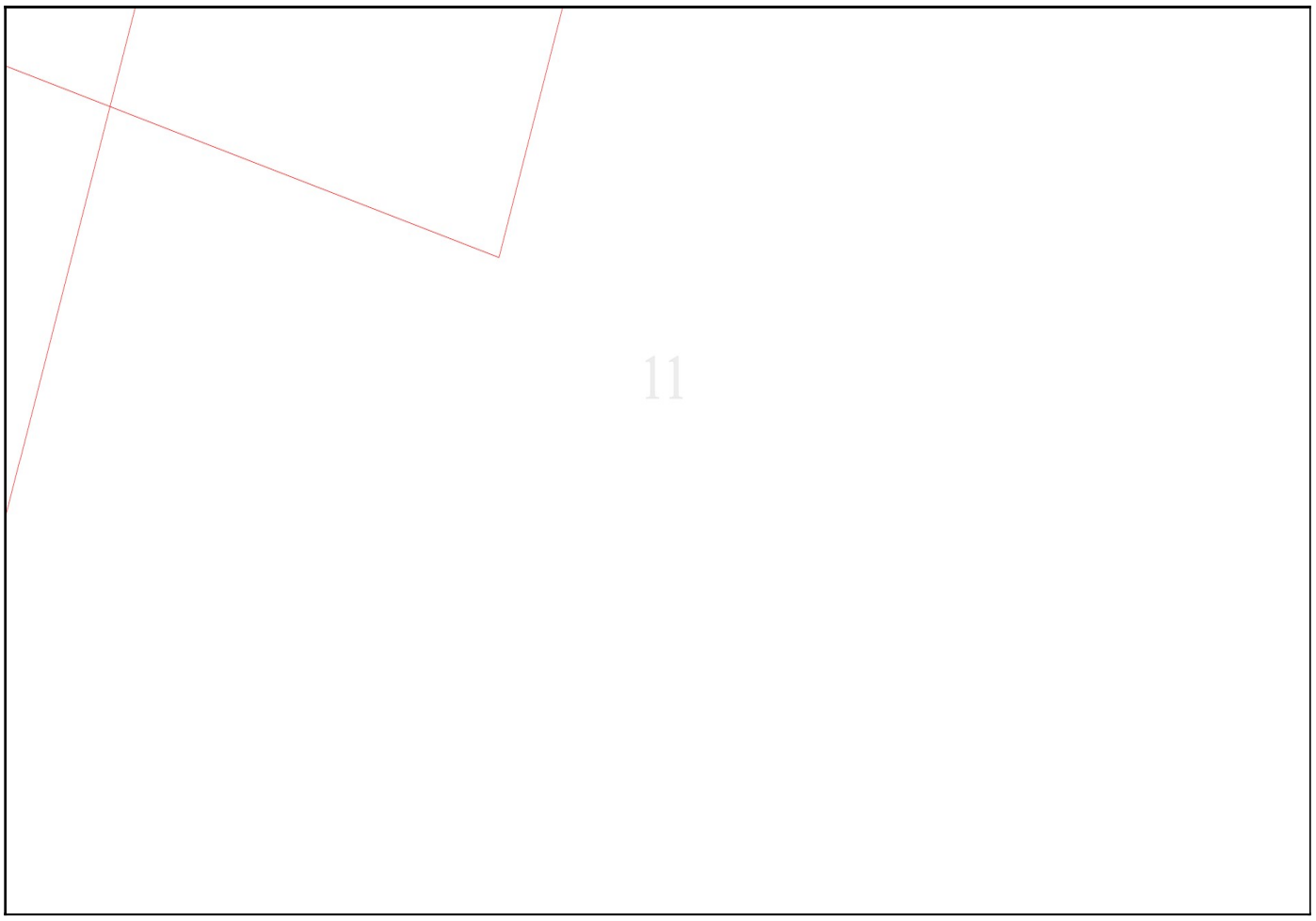
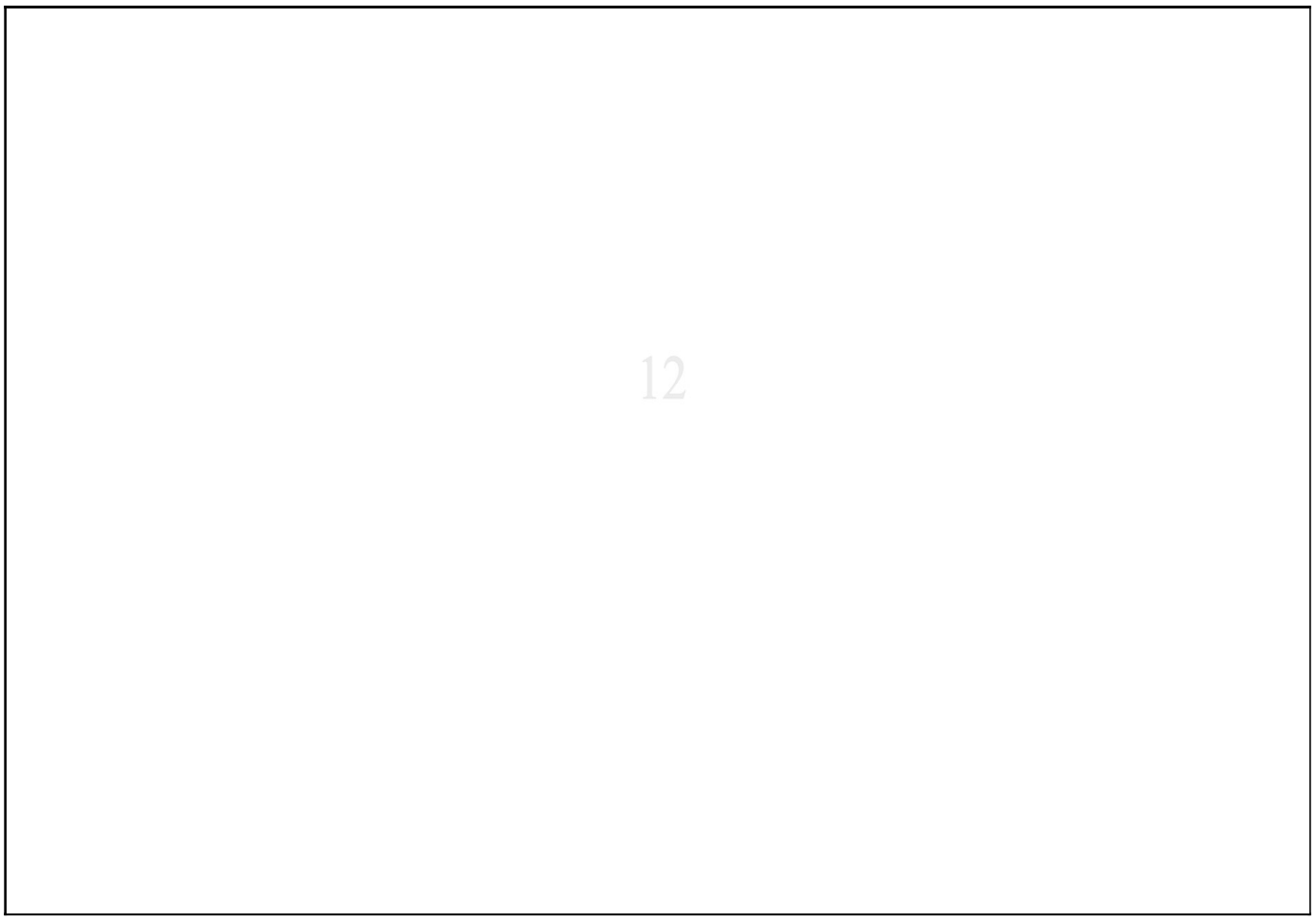
P100-T-35.9m
P50-T-66.8m
CRONSON LANE
P50-T-
P20-T-28.0m
P20-T-28.0m
P20-T-28.0m
P20-T-28.0m
82.8m
154-164
9

142-152
10

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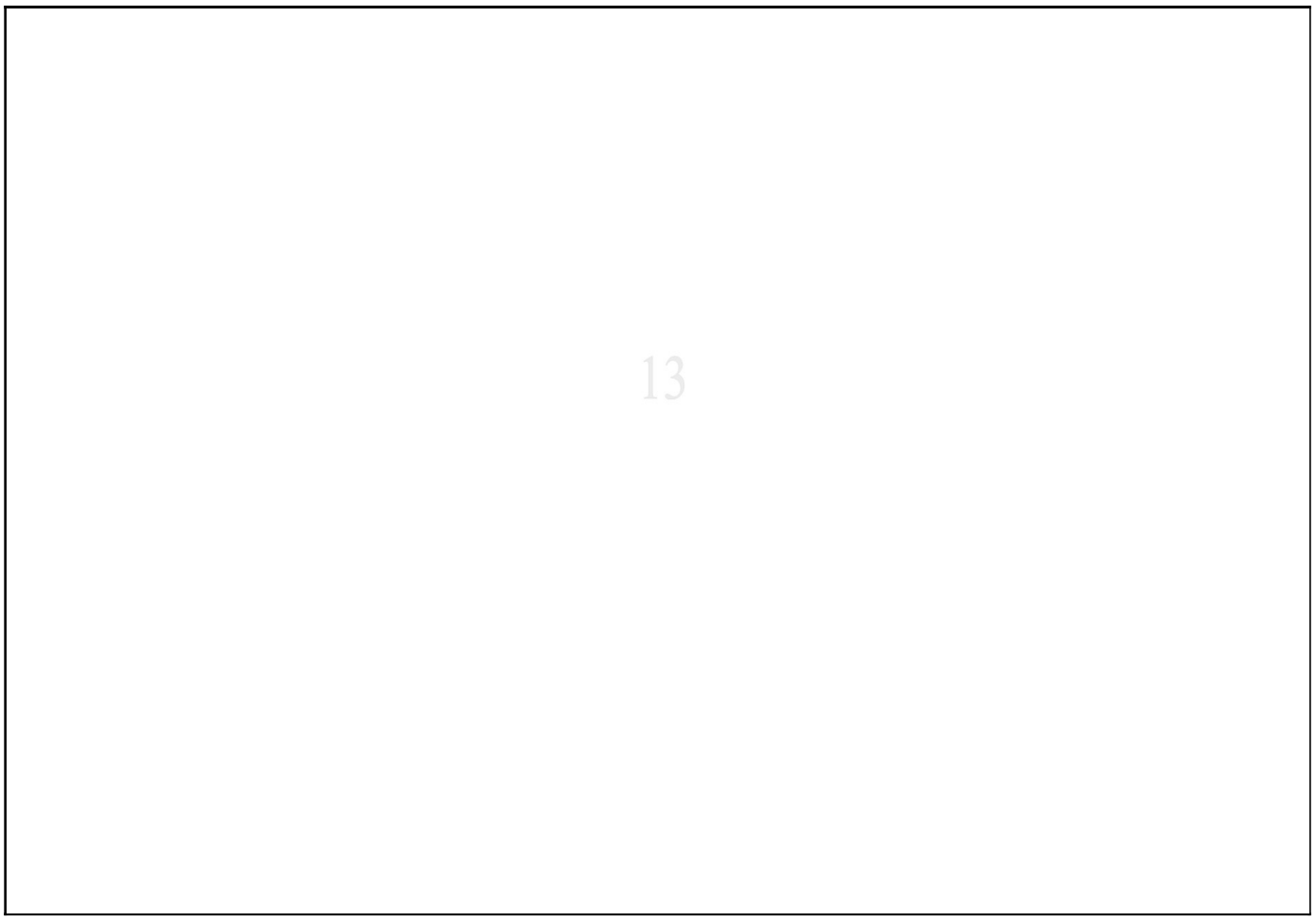
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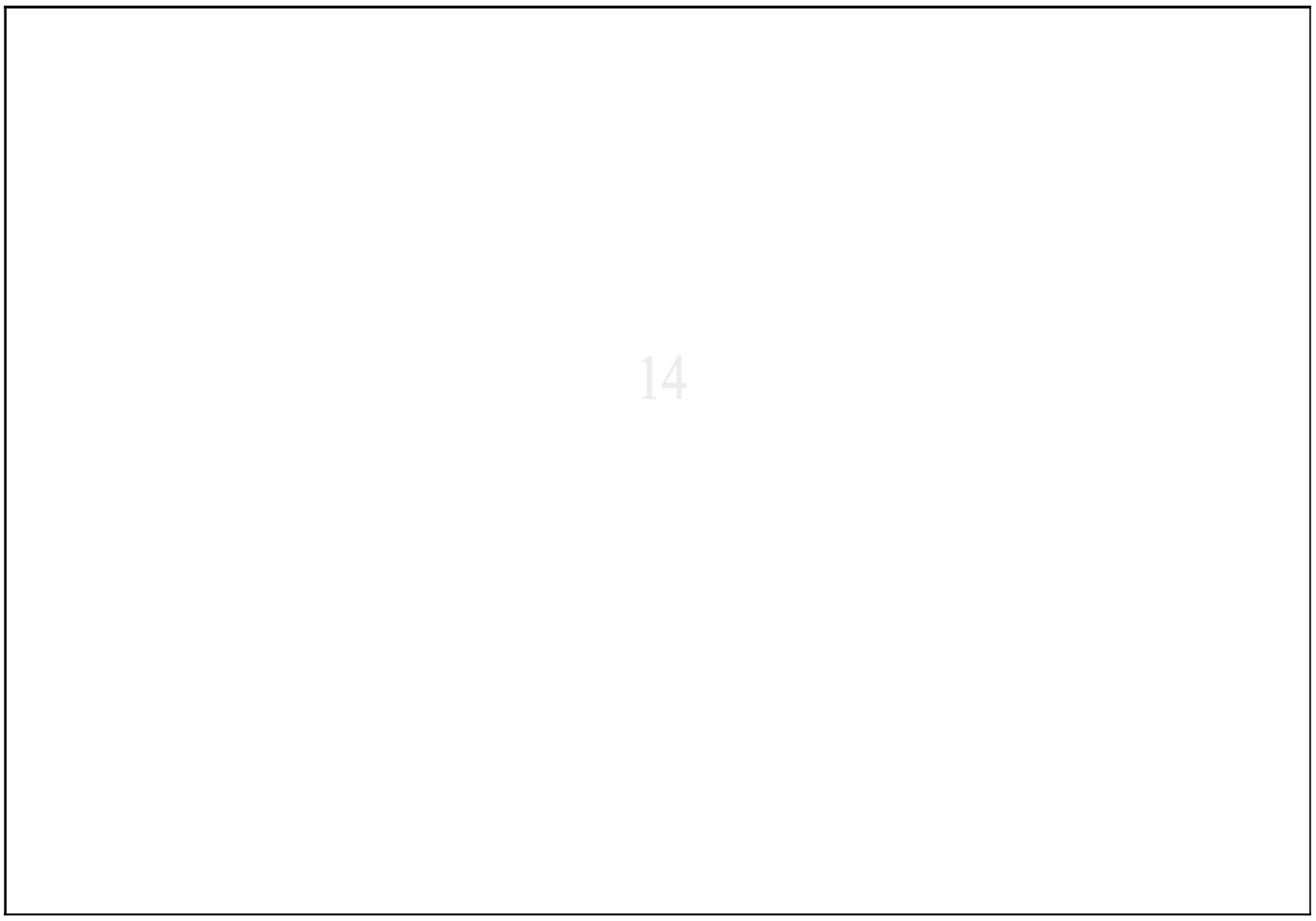
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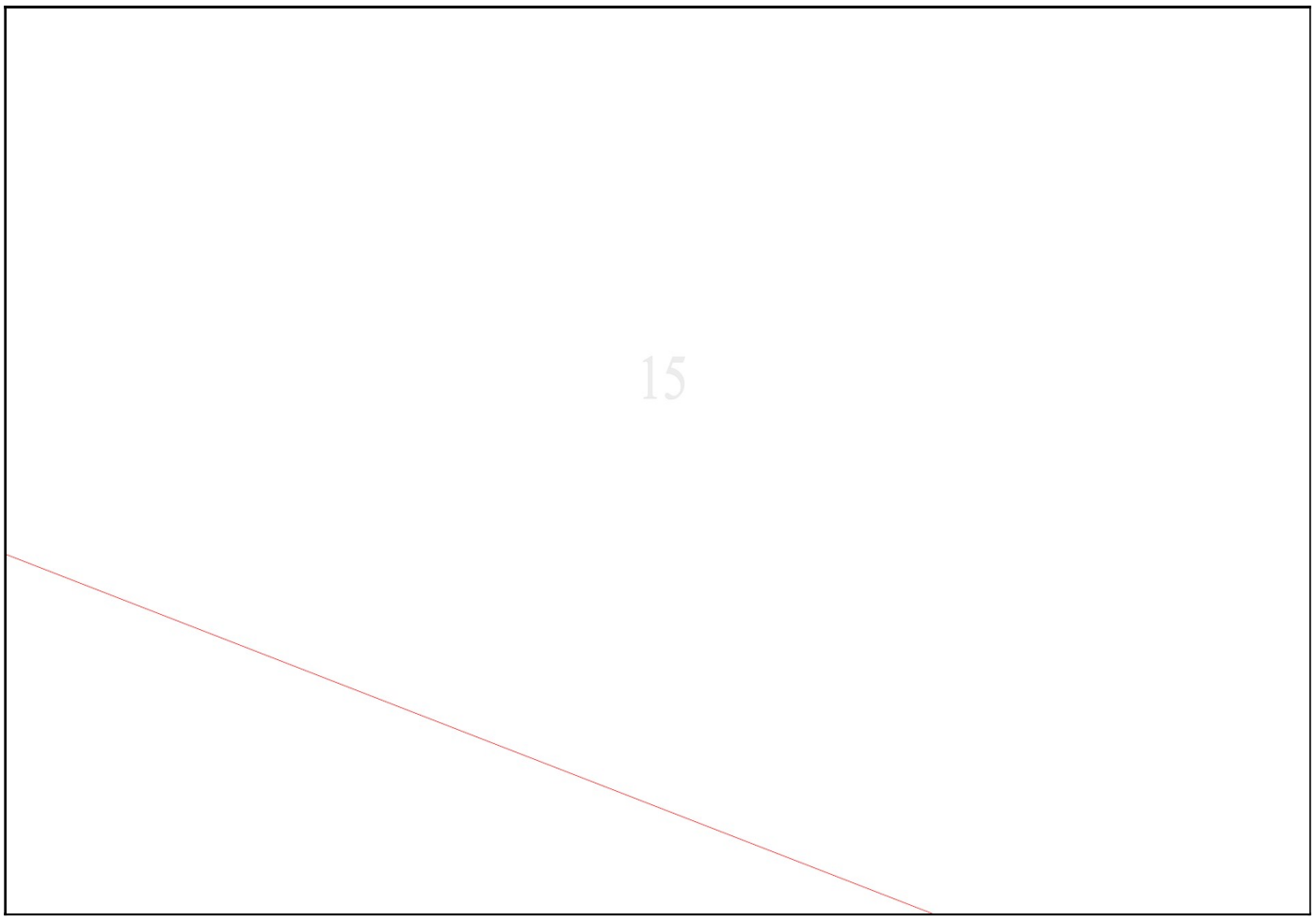
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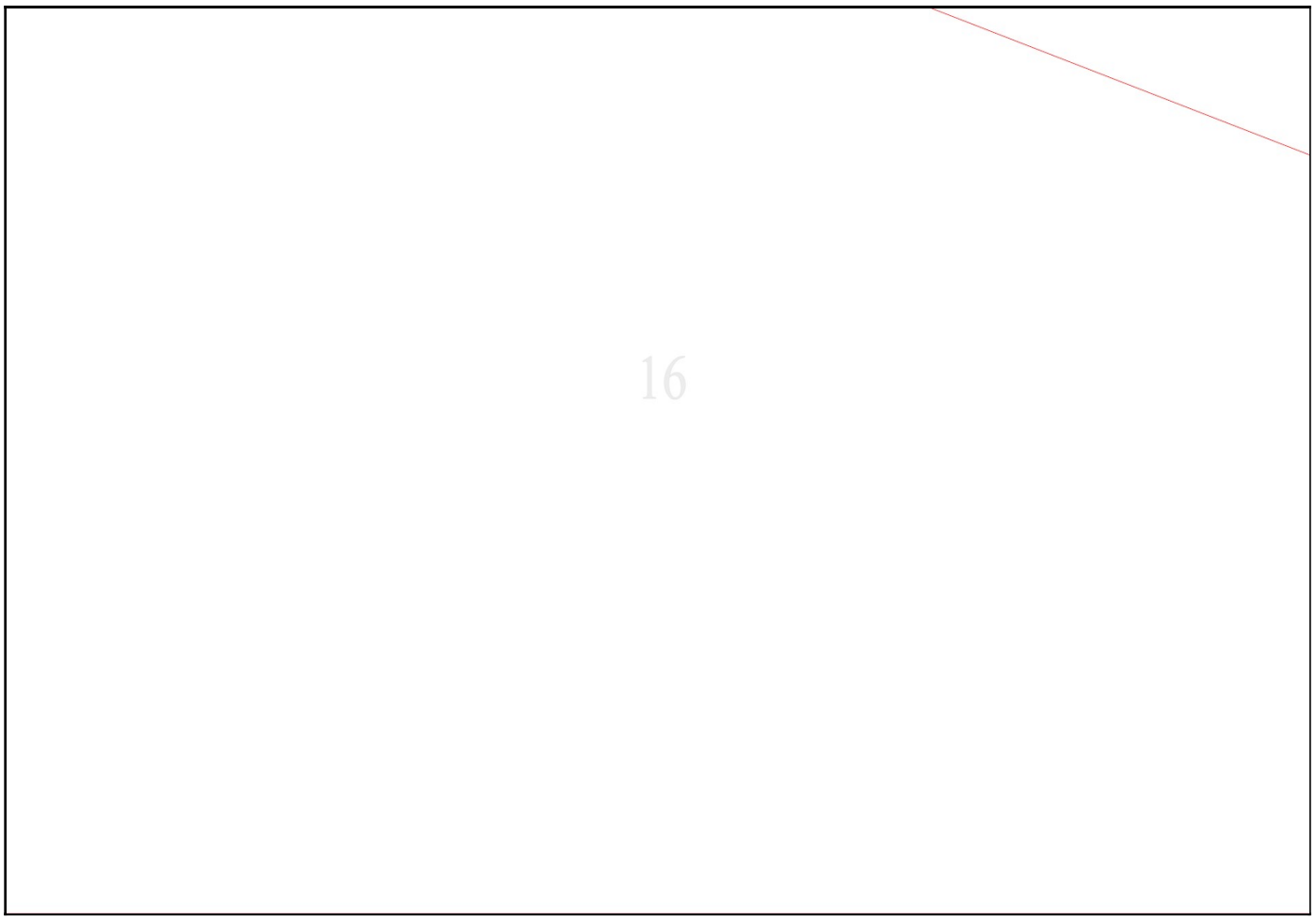
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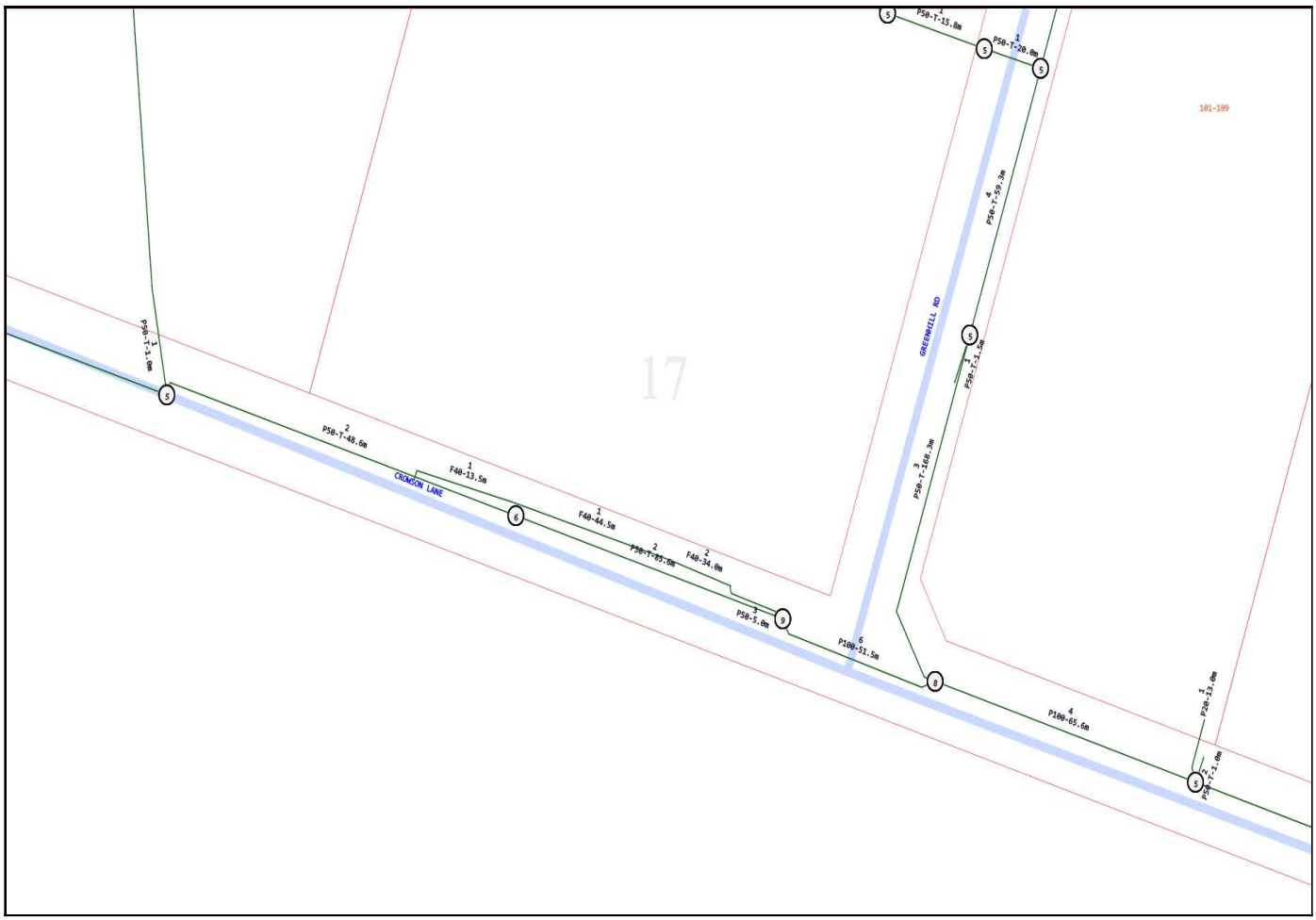
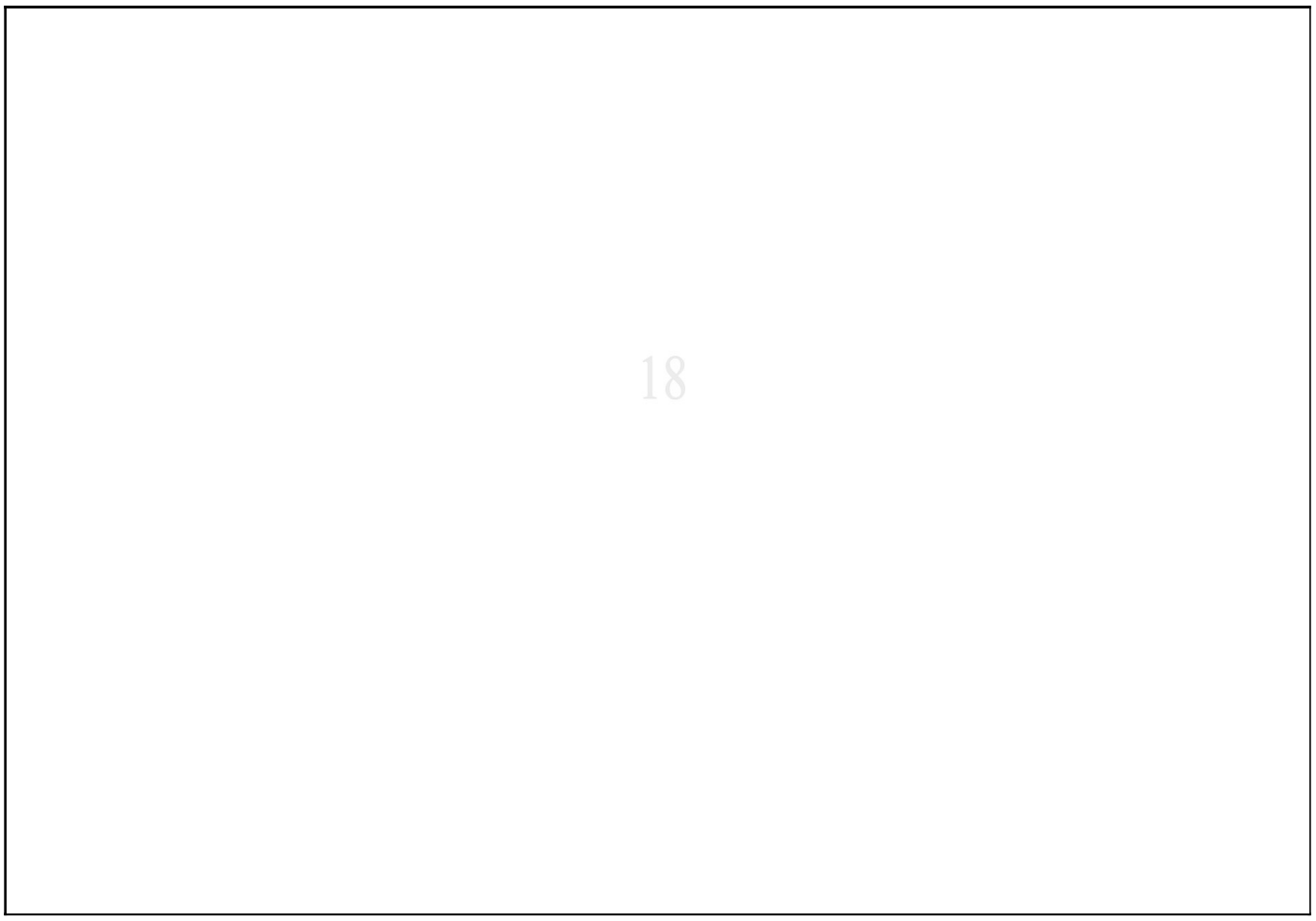

17
101-109
GREENMILL RD
CROMSON LANE
P50-T-15.0m
P50-T-20.0m
P50-T-59.3m
P50-T-1.5m
P50-T-168.3m
P50-T-1.0m
P50-T-48.6m
F40-13.5m
F40-44.5m
P50-T-85.6m
F40-34.0m
P50-5.0m
P100-51.5m
P100-65.6m
P50-13.0m
P50-T-1.0m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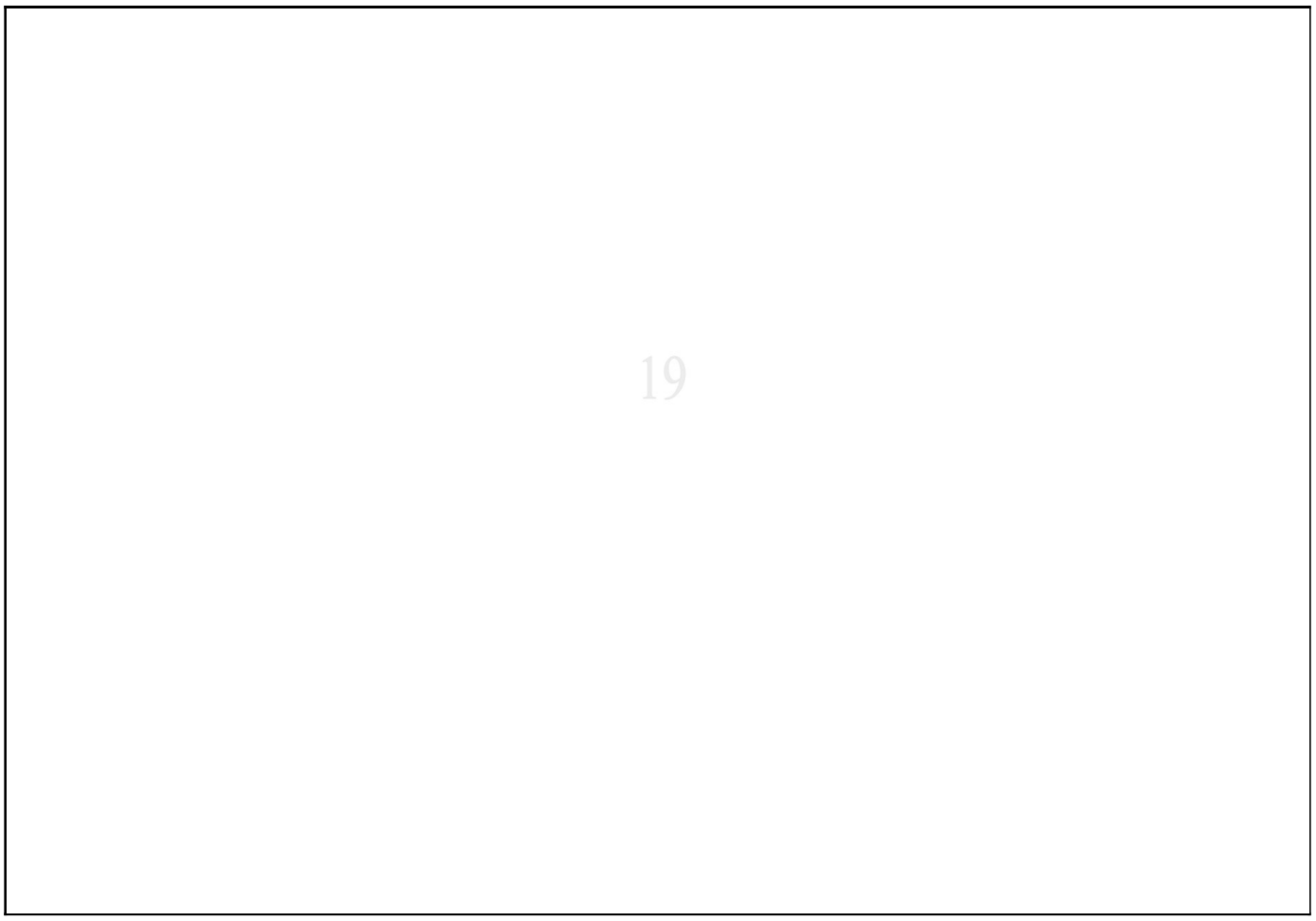
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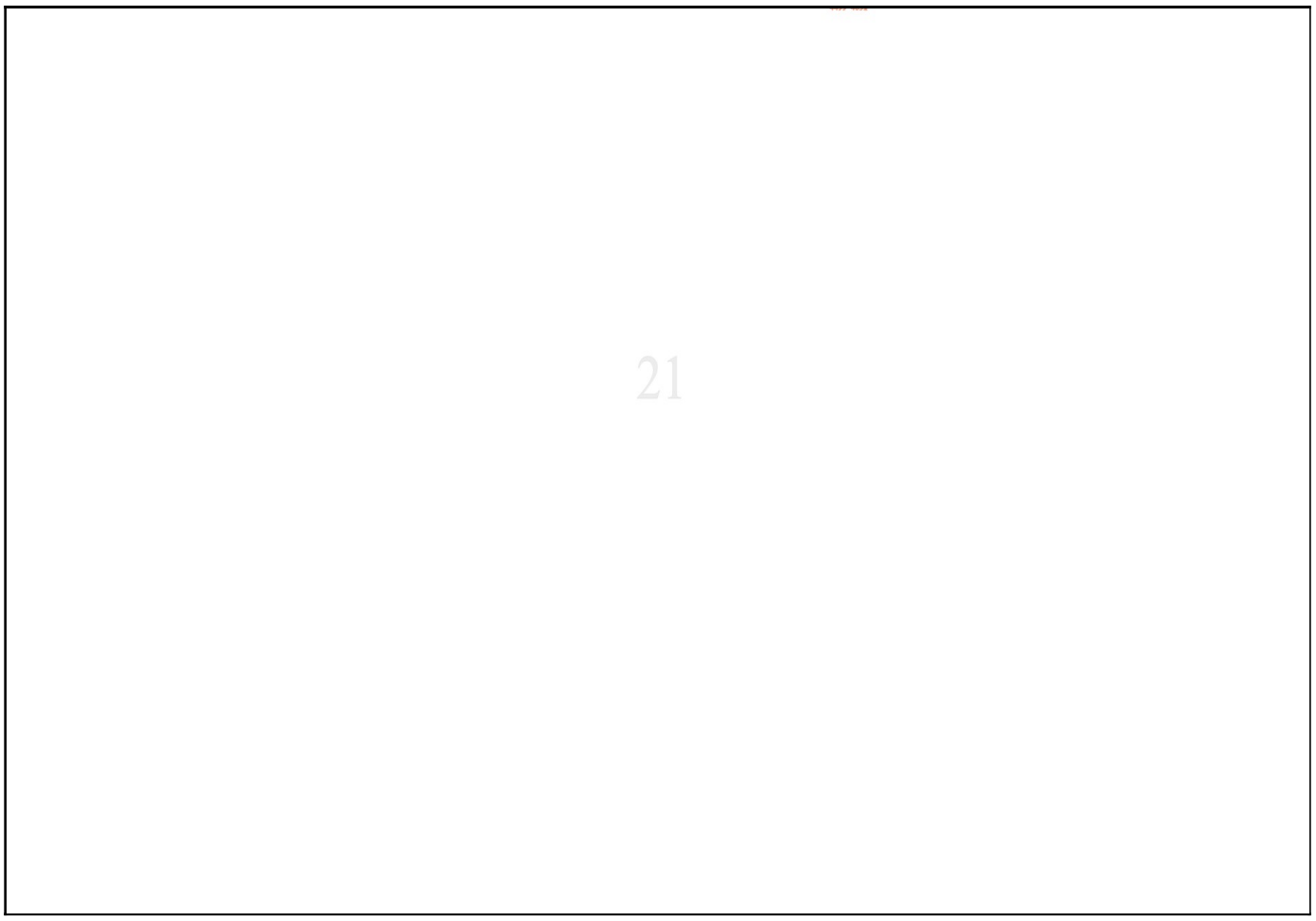

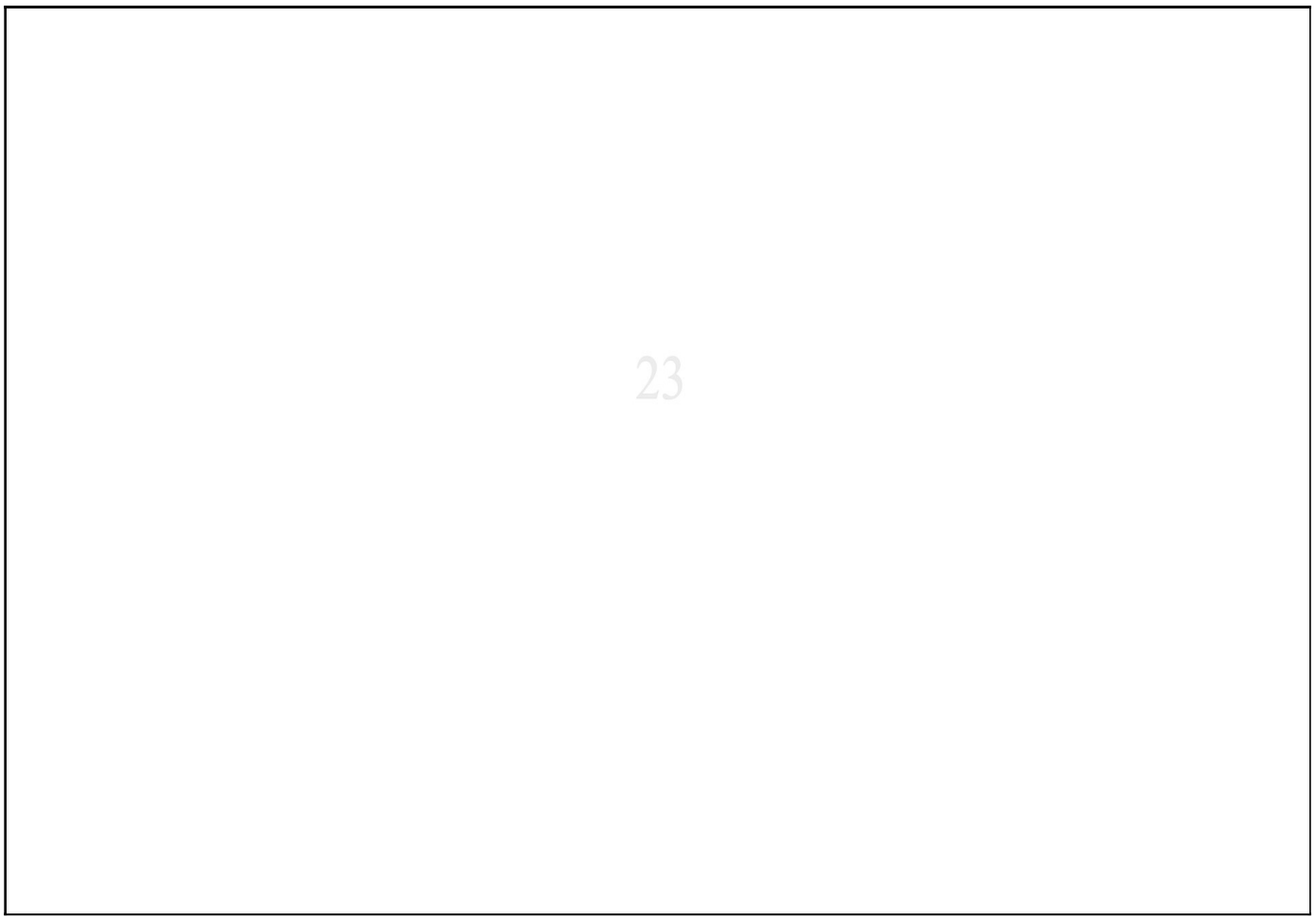
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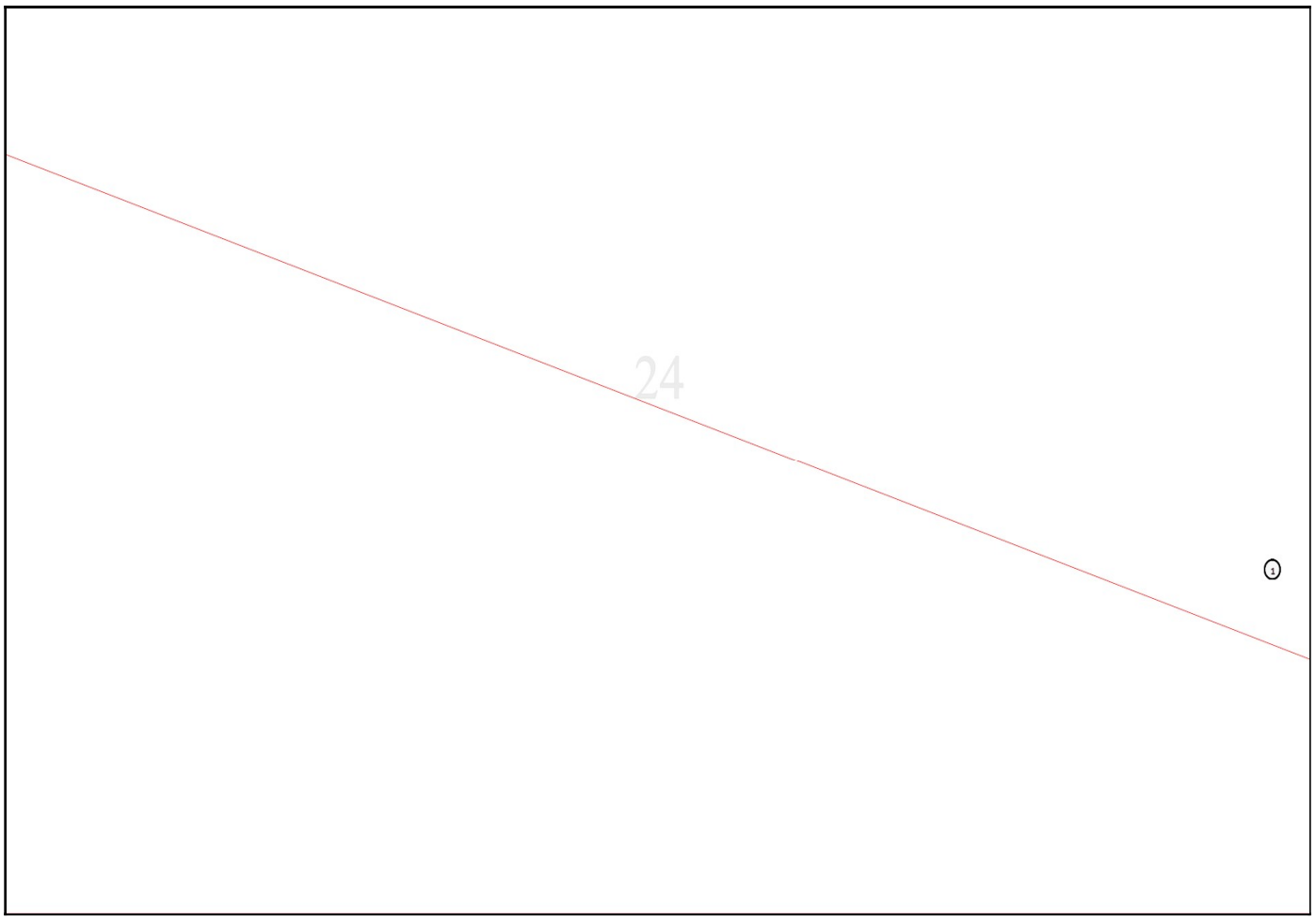
24
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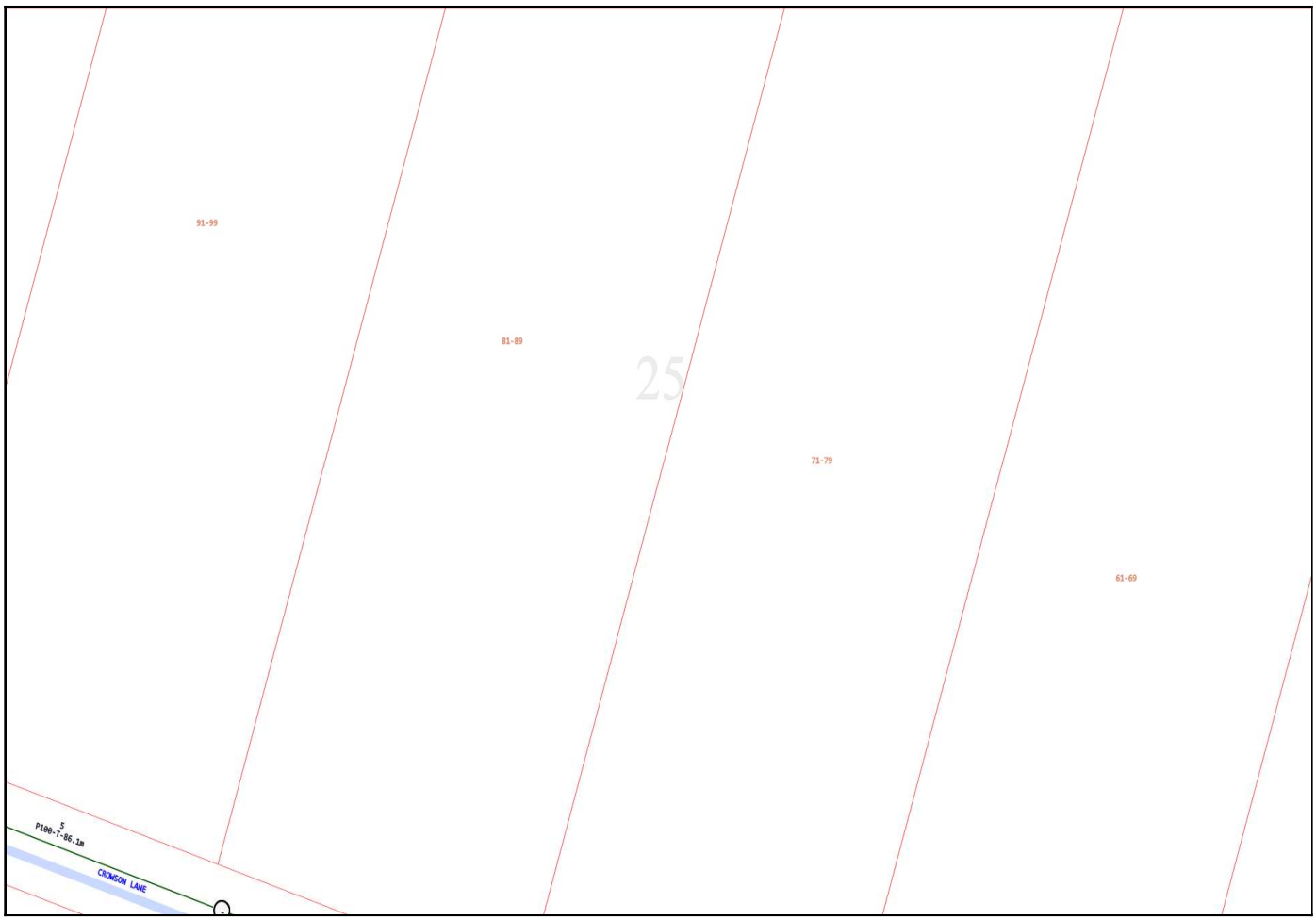
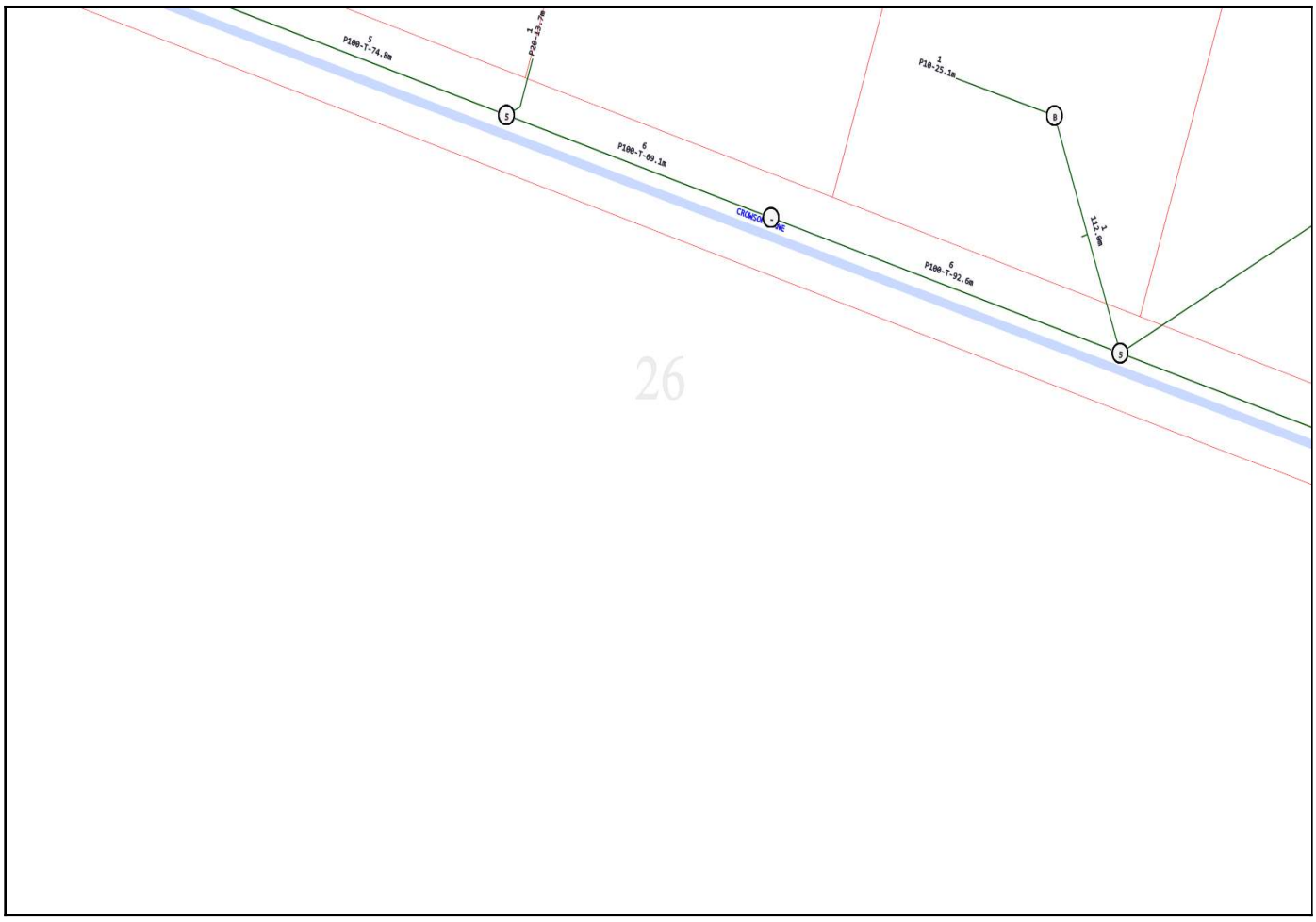
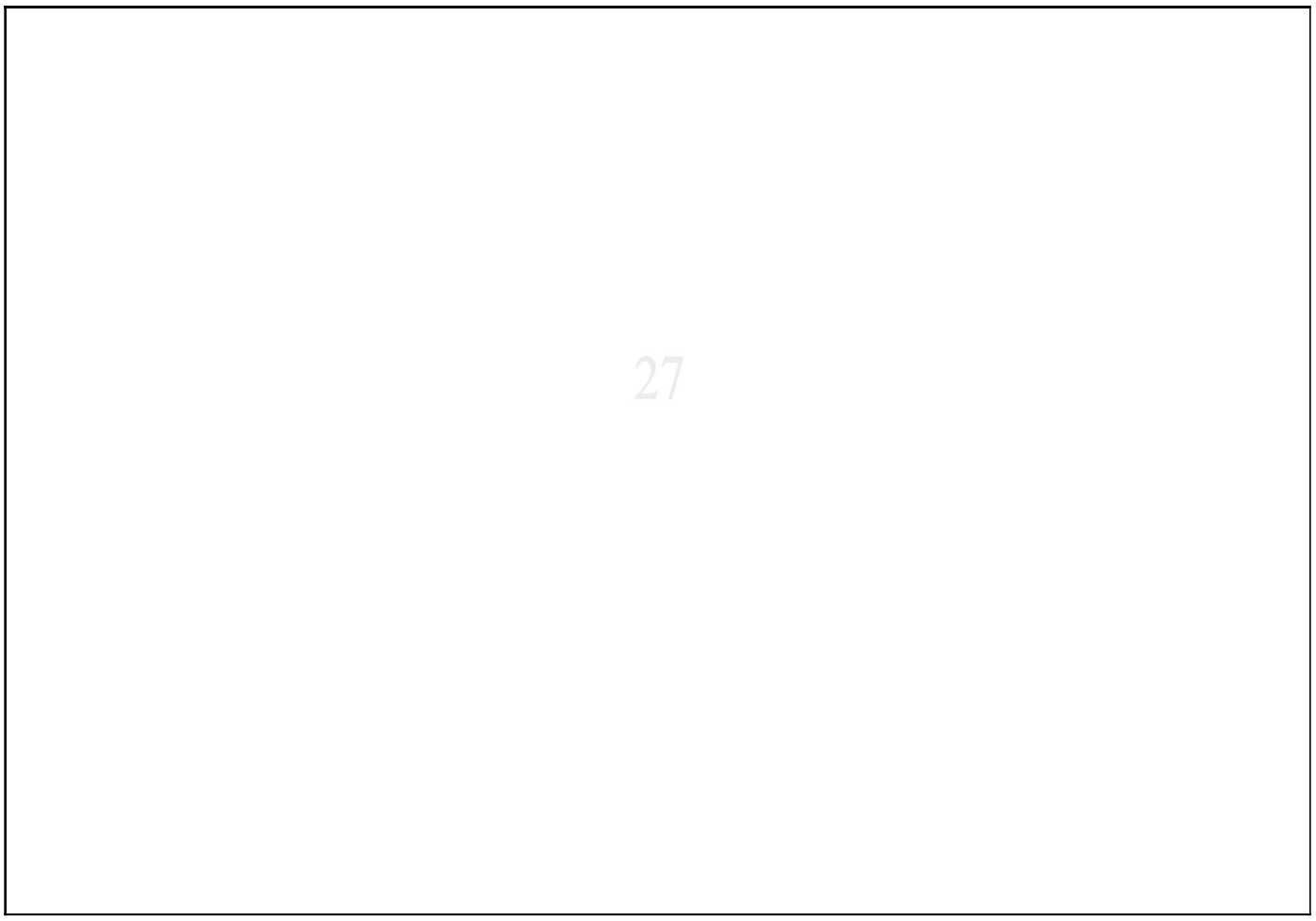

91-99
81-89
25
71-79
61-69
P100-7-86.1m
CROMSON LANE


5
P100-T-74.0m
1
P20-13.7m
6
P100-T-69.1m
CROSSZONE
1
P10-25.1m
8
1
112.9m
6
P100-T-92.6m
5

26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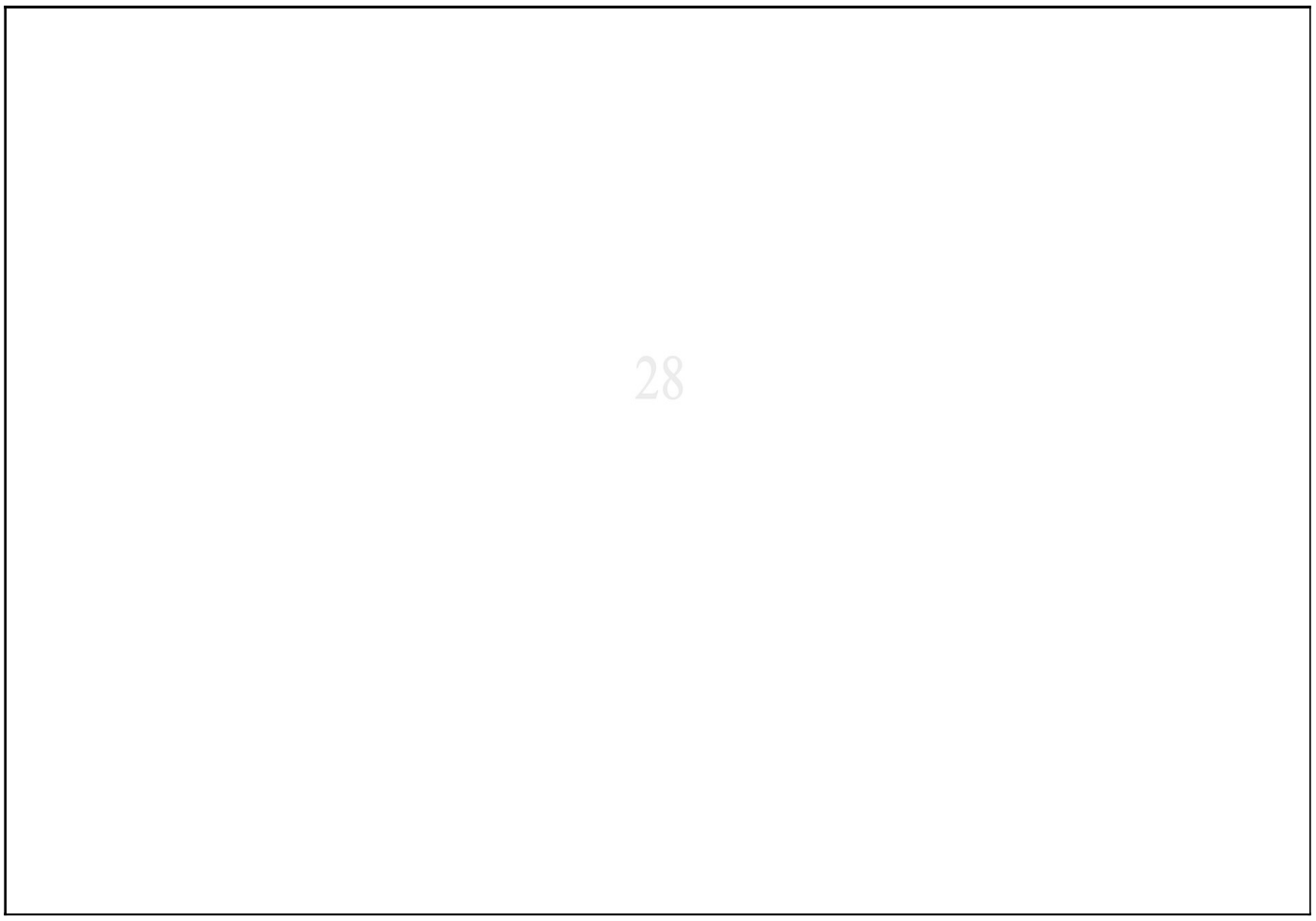
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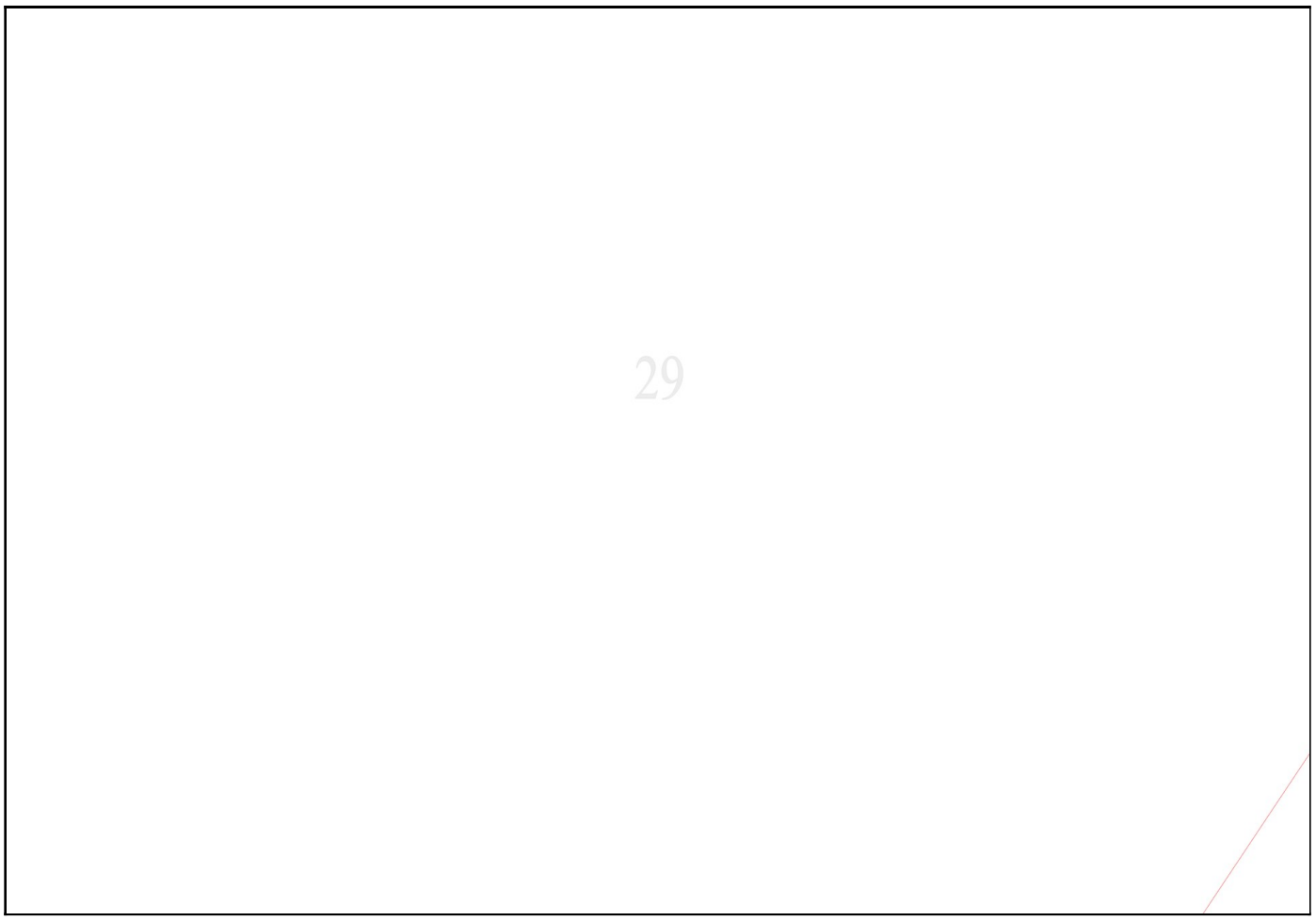
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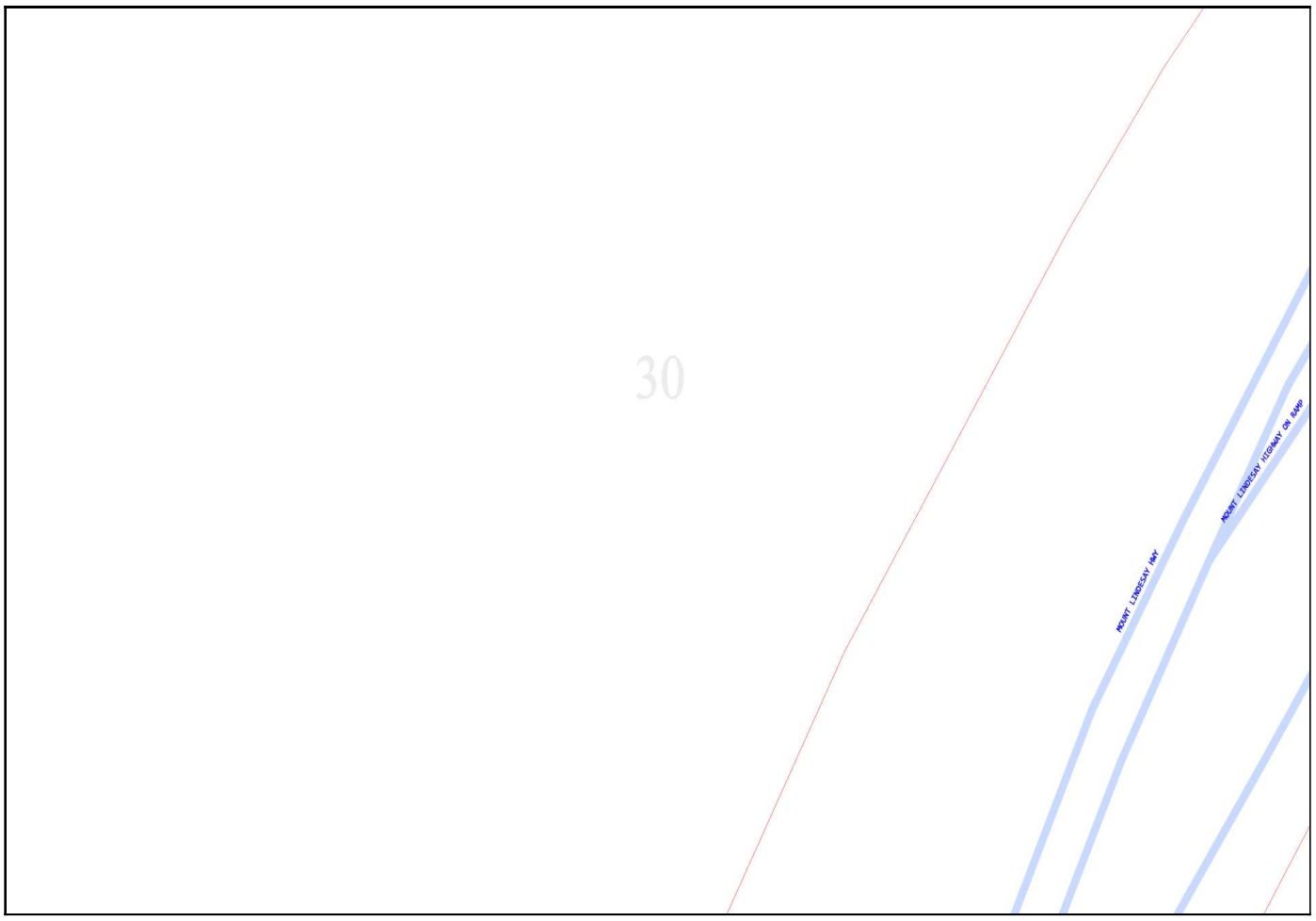
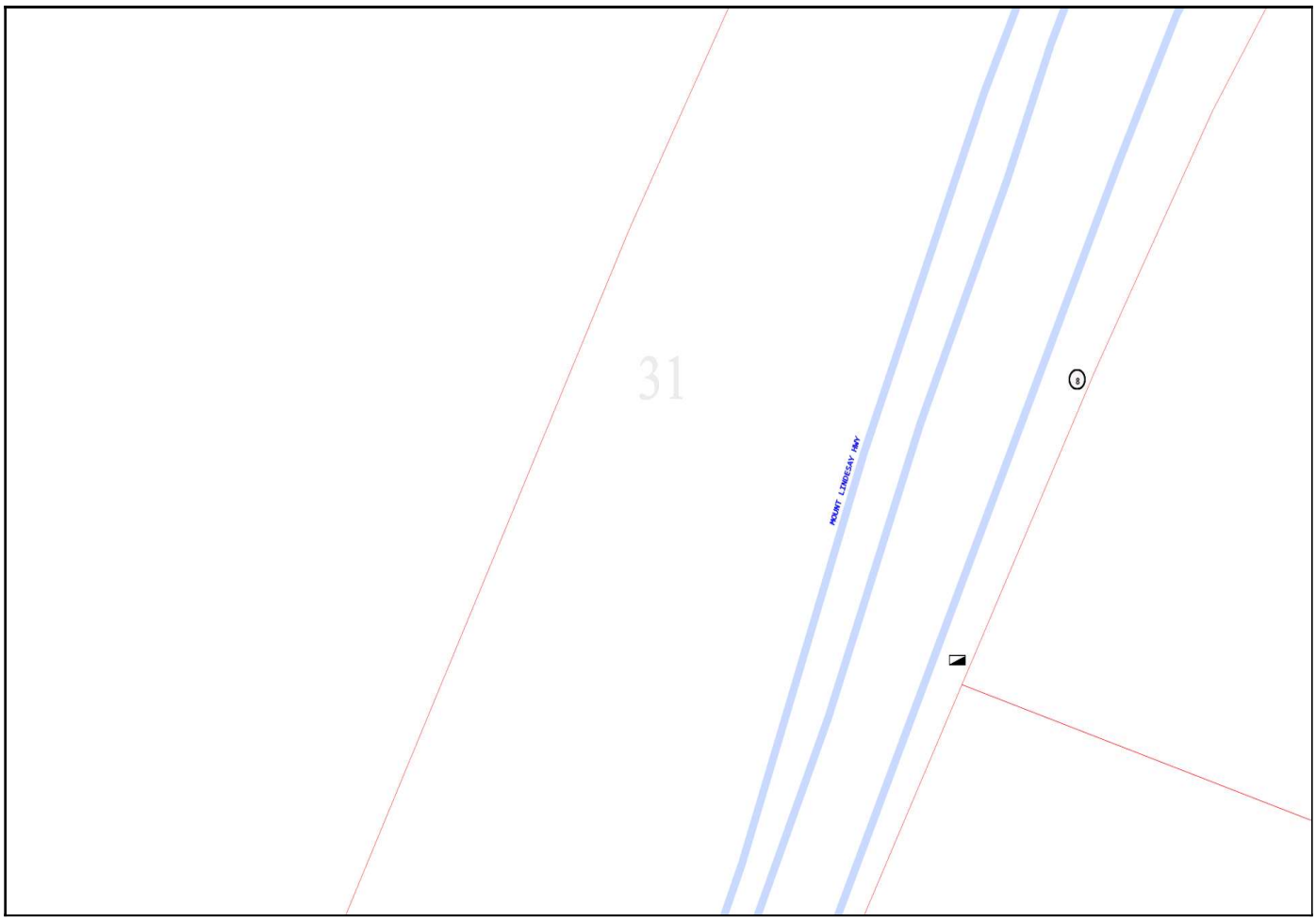
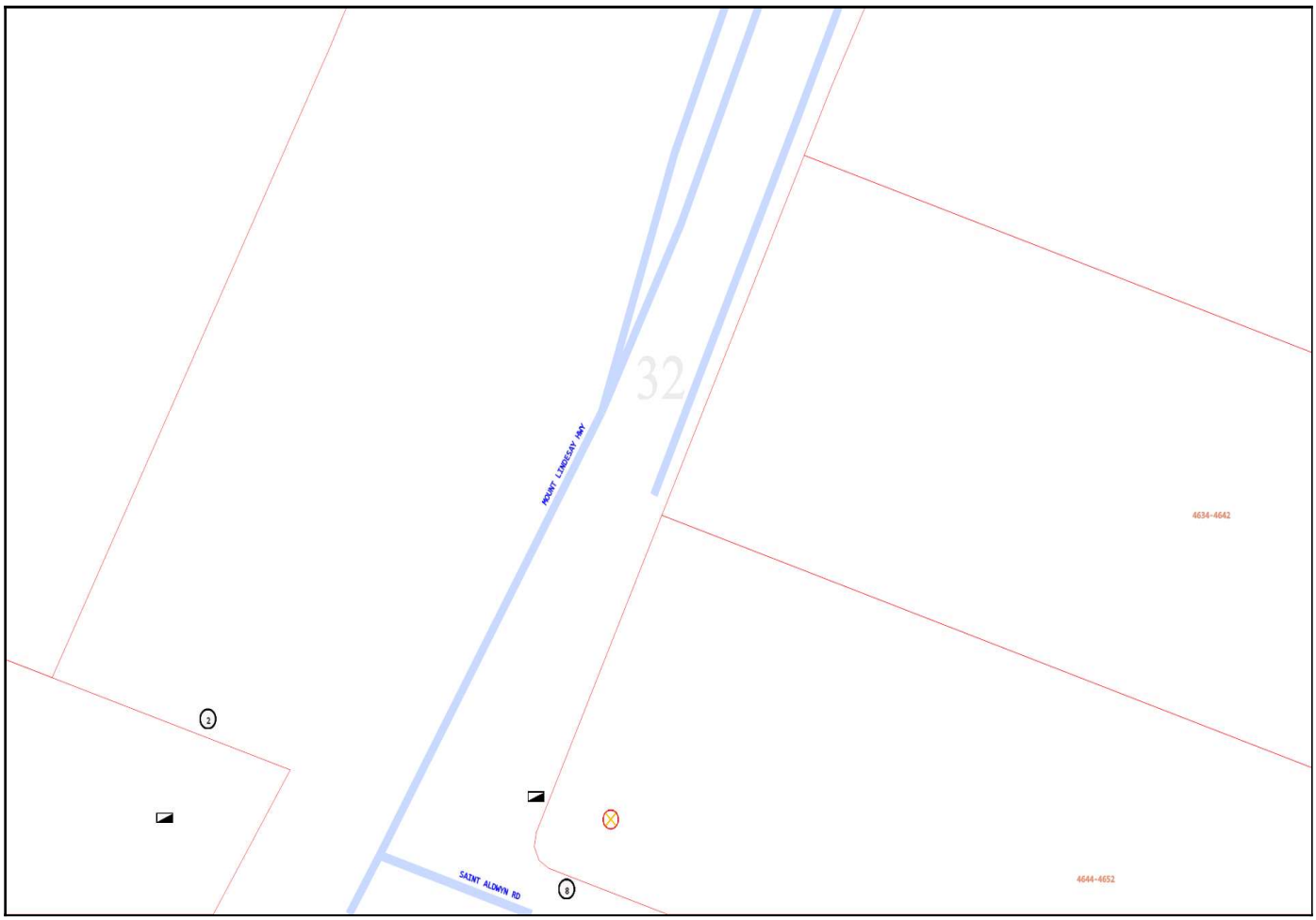
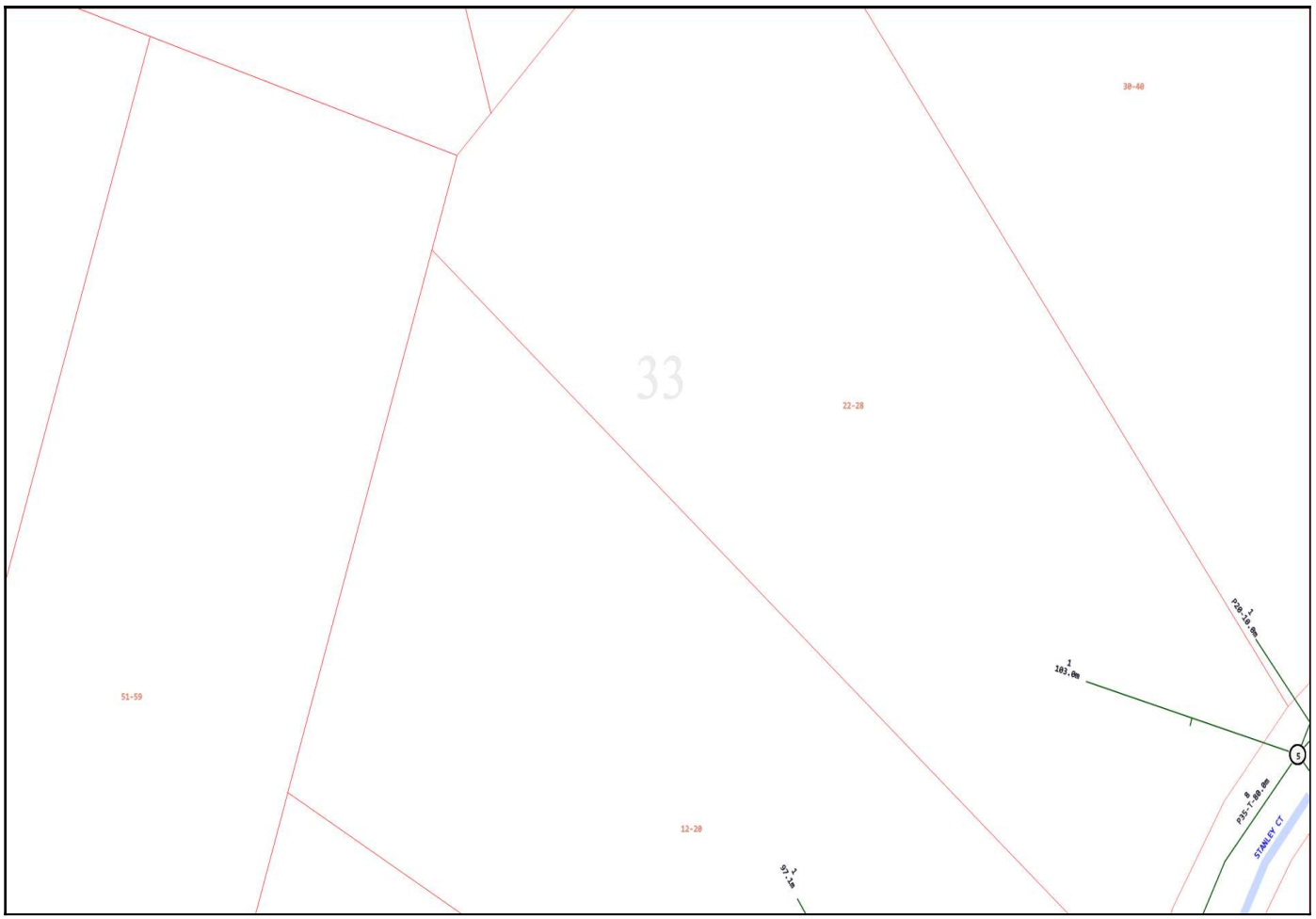
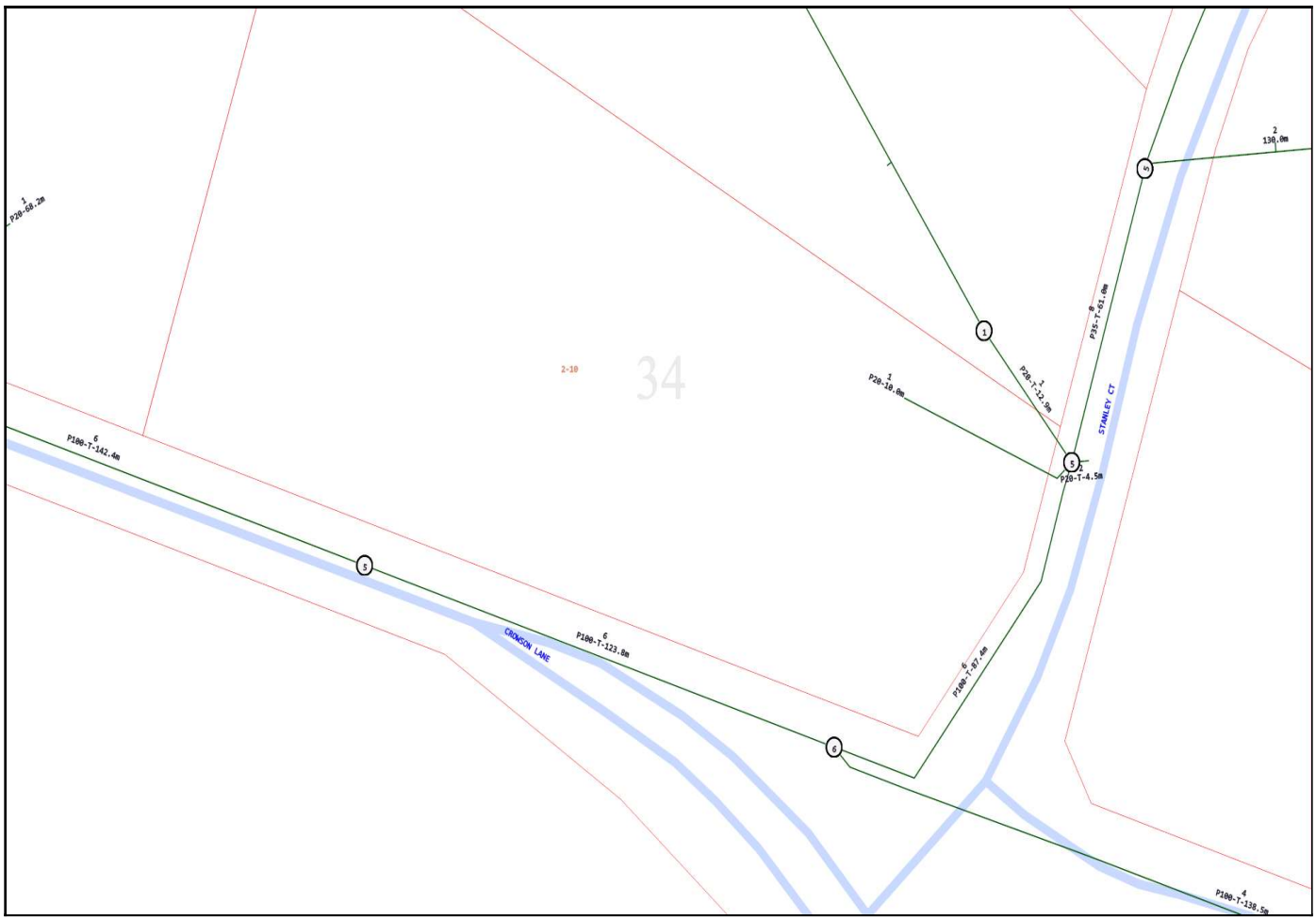
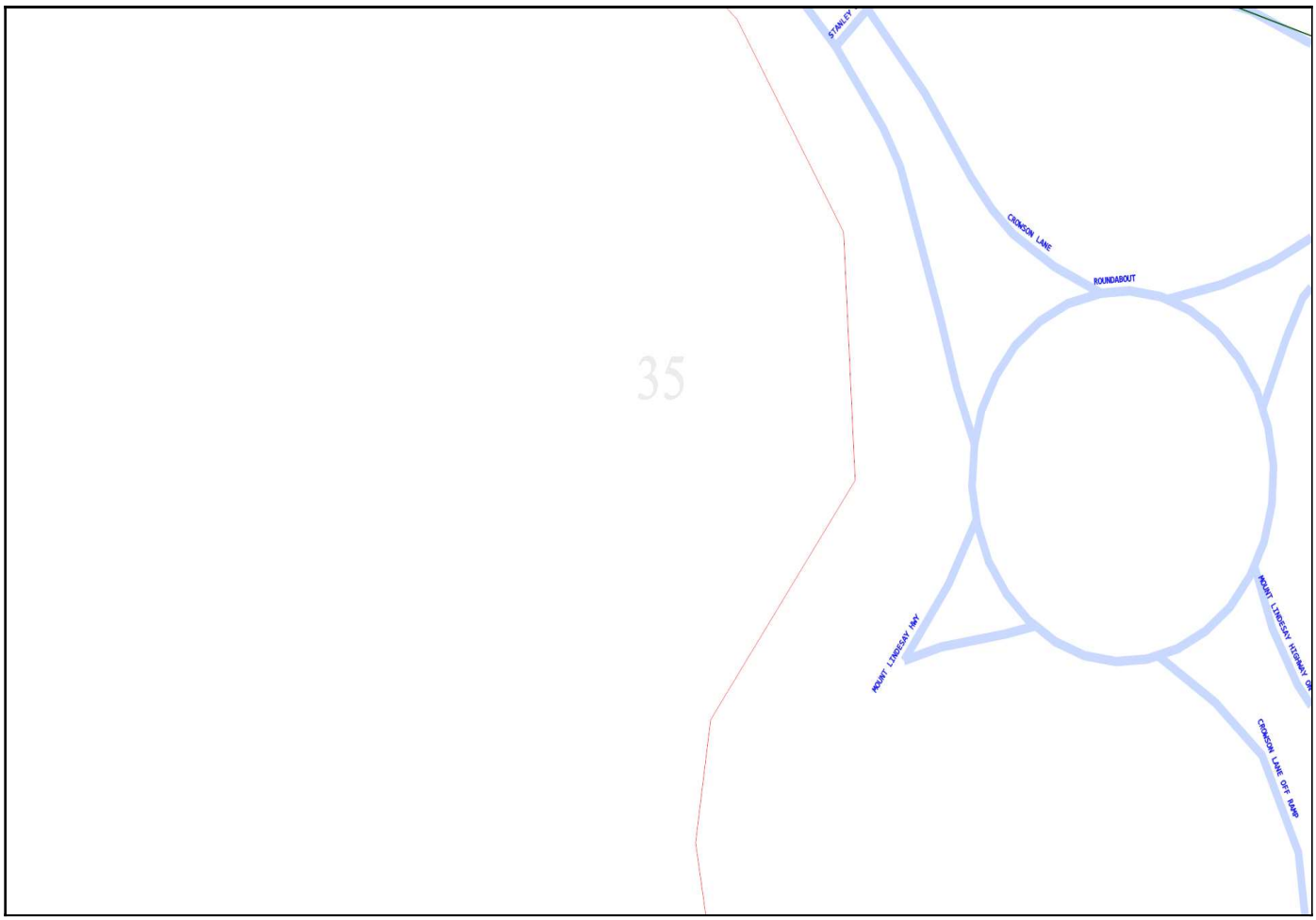

30
MOUNT LINDESAY HWY
MOUNT LINDESAY HIGHWAY ON RAMP

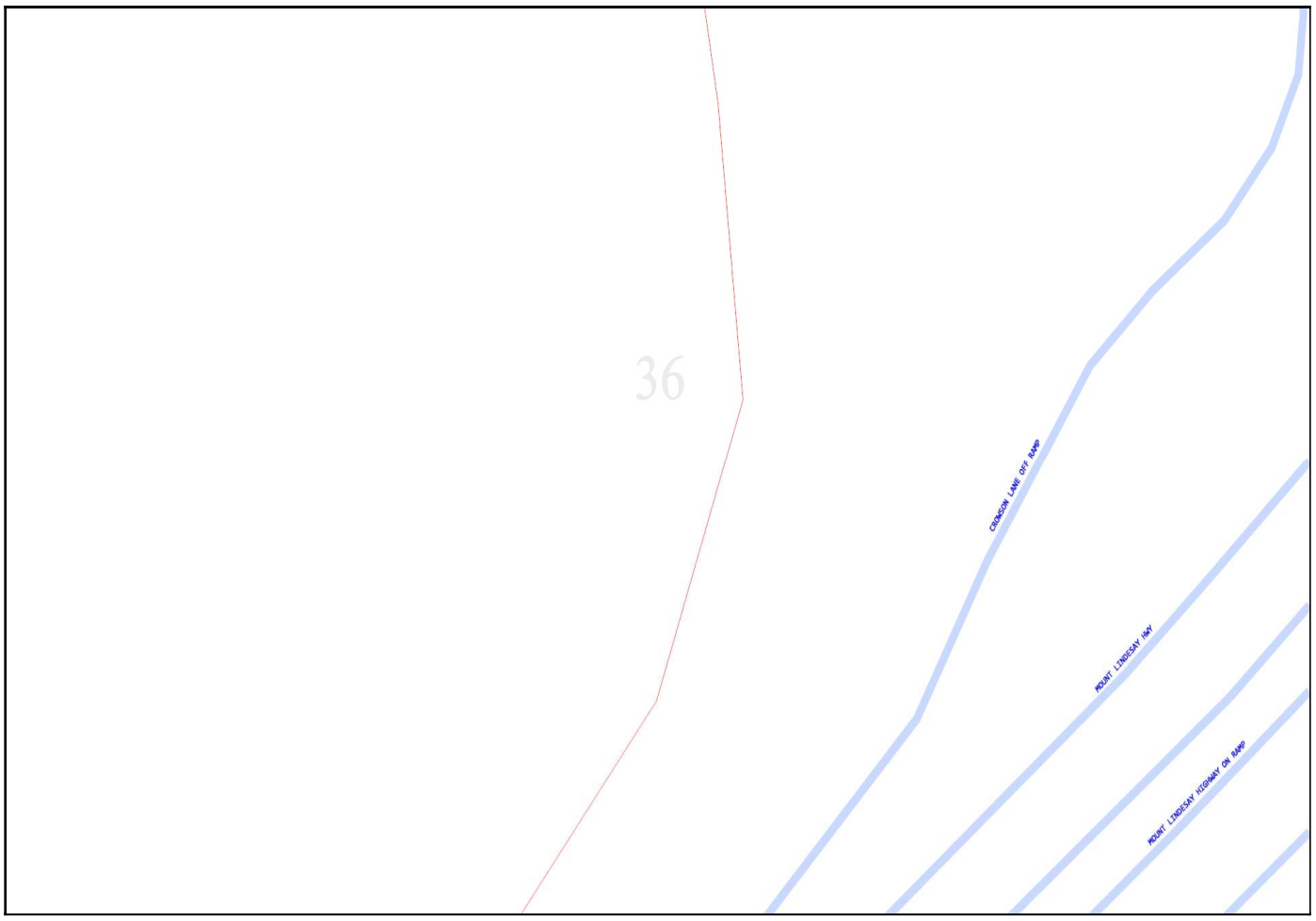

31
MOUNT LINDESAY HWY
8

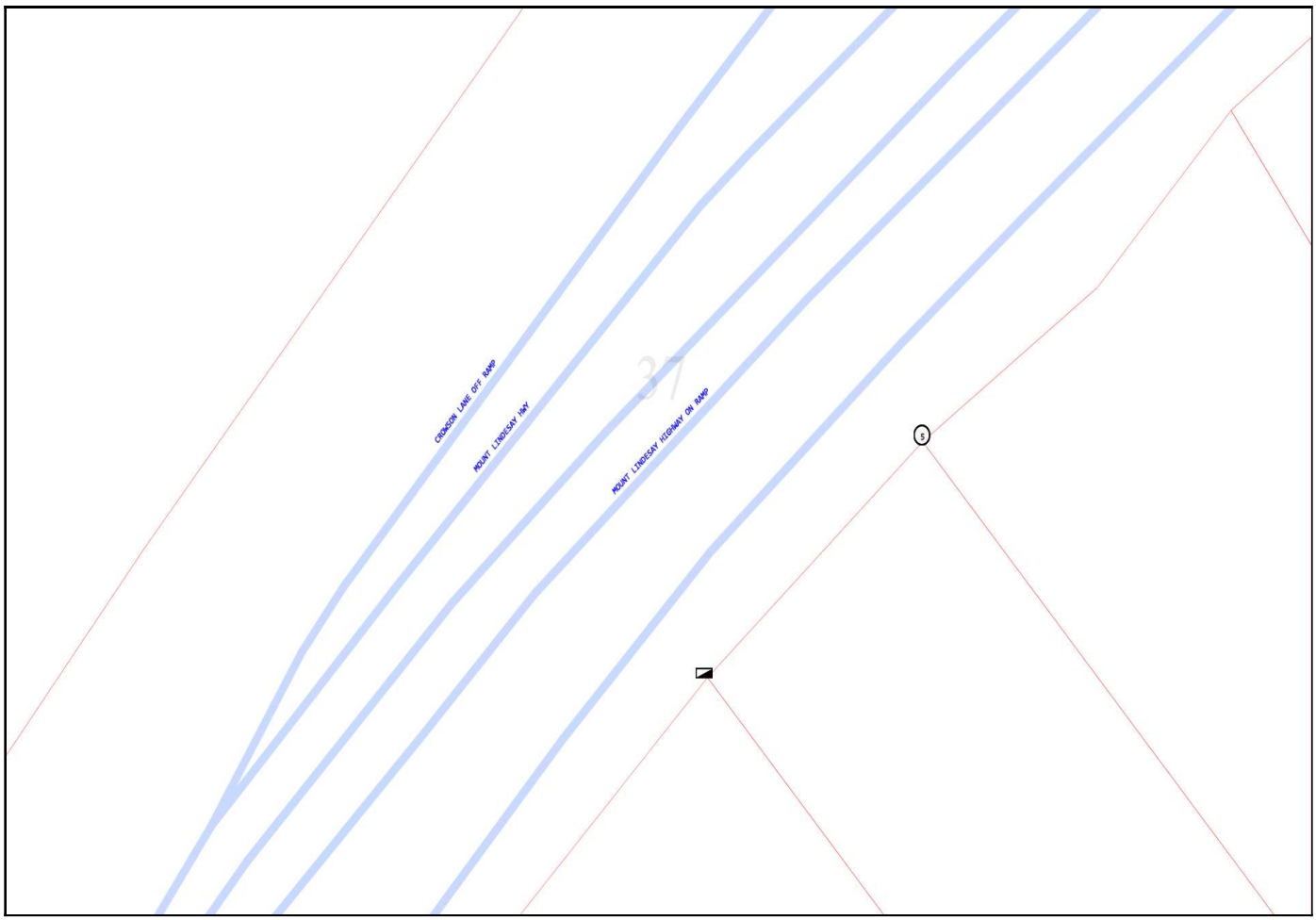

32
MOUNT LINDESAY HWY
4634-4642
4644-4652
SAINT ALDWYN RD
2
8

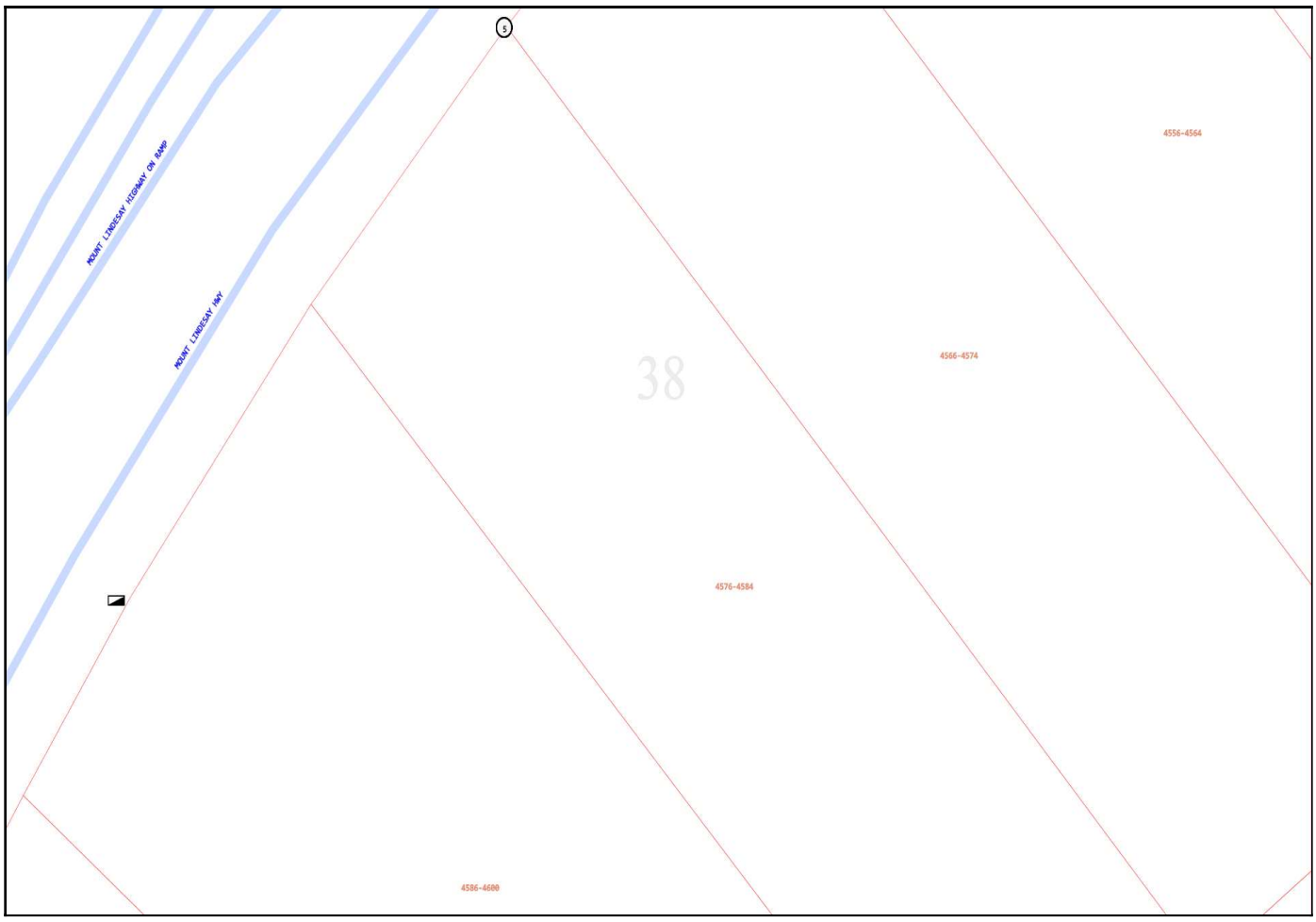

33
30-40
22-28
51-59
12-20
1
P20:10.0m
1
103.6m
5
6
P35:7.0m
STANLEY CT
1
97.1m

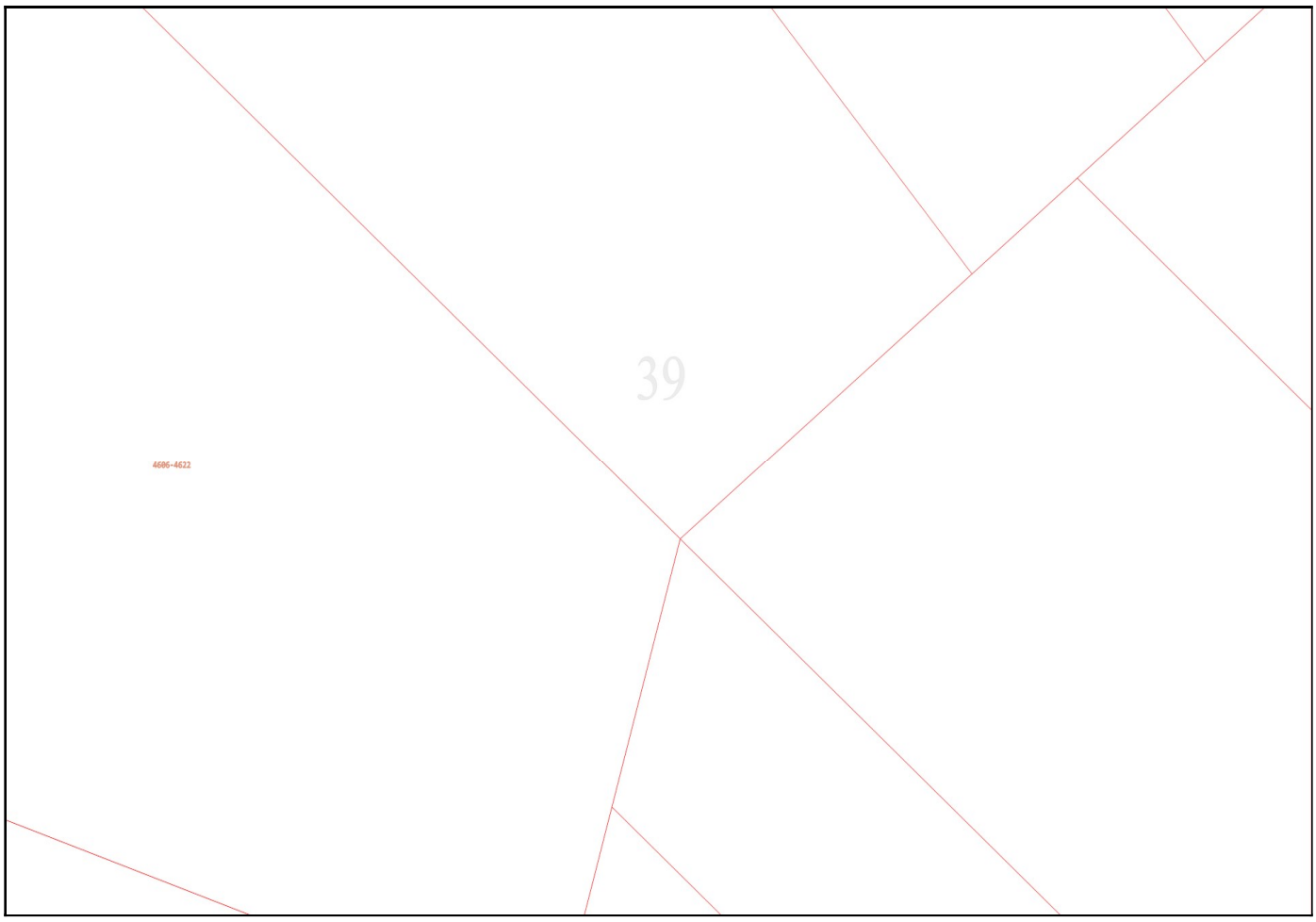

1
P20-58.2m
2-10
34
1
P20-10.0m
1
P20-T-12.9m
8
P35-T-61.0m
2
130.0m
STANLEY CT
P20-T-4.5m
6
P100-T-142.4m
CRONSON LANE
6
P100-T-123.8m
6
P100-T-97.4m
4
P100-T-138.5m

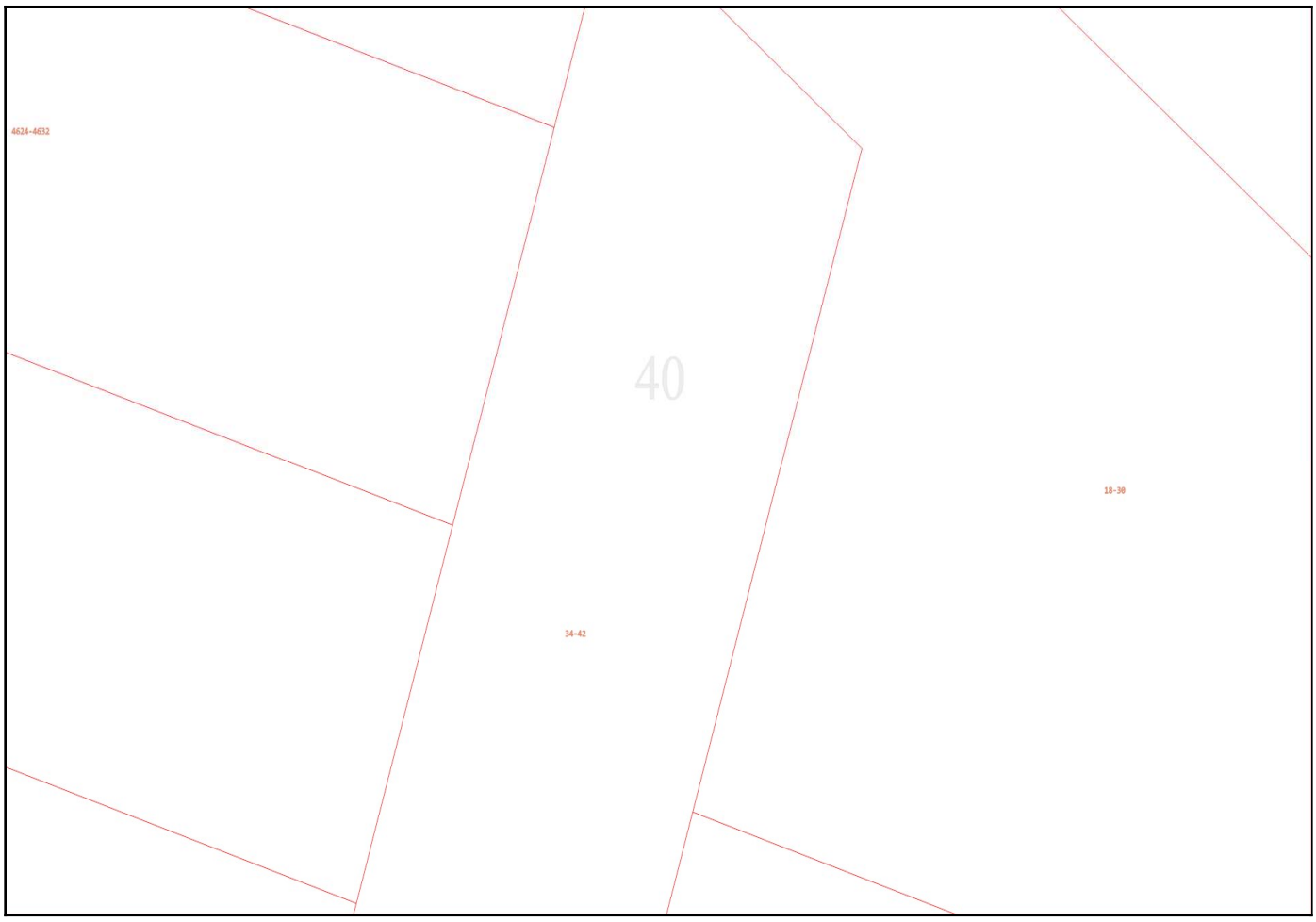

STANLEY
CROXDON LANE
ROUNDABOUT
35
MOUNT LINDESAY WAY
MOUNT LINDESAY HIGHWAY OFF
CROXDON LANE OFF RAMP


36
CROMDOM LANE OFF RAMP
MOUNT LINDESAY HWY
MOUNT LINDESAY HIGHWAY ON RAMP


CROMDON LANE OFF RAMP
MOUNT LINDESAY HWY
MOUNT LINDESAY KEGWAY ON RAMP
37


MOUNT LINDESAY HIGHWAY ON RAMP
MOUNT LINDESAY HWY
38
4556-4564
4566-4574
4576-4584
4586-4600


39
4606-4622



Emergency Contacts

You must immediately report any damage to the **nbn™** network that you are/become aware of. Notification may be by telephone - 1800 626 329.