



DRAWING LIST

Drawing Number	Rev.	Date	Series Number	Drawing Description
60622967-02-DI-01	0	19/02/2021	1	DRAWING INDEX AND LOCALITY PLAN
60622967-02-SN-01	0	19/02/2021	2	STANDARD NOTES
60622967-02-TC-01	0	19/02/2021	3	TYPICAL SECTIONS AND DETAILS
60622967-02-GA-01	0	19/02/2021	4	GENERAL ARRANGEMENT PLAN
60622967-02-DS-01	0	19/02/2021	5	DETAILED SETOUT PLAN
60622967-02-LS-01	0	19/02/2021	6	STORMWATER LONGITUDINAL SECTIONS
60622967-02-SC-01	0	19/02/2021	7	STORMWATER CALCULATION TABLES
60622967-02-MD-01	0	19/02/2021	8	MISCELLANEOUS DETAILS

FNQROC STANDARD DRAWINGS

Drawing Number	REVISION	Drawing Description
S1000	G	CONCRETE KERB & CHANNEL PROFILES & DIMENSIONS
S1015	E	ACCESS CROSSOVERS
S1016	D	KERB RAMP
S1035	D	PATHWAYS/BIKEWAYS
S1046	B	EXCAVATION, BEDDING, AND BACKFILLING OF CONCRETE PIPES
S1050	C	GRATED KERB INLET PIT PIPE DIA < 600mm
S1055	E	GRATED KERB INLET PIT PIPE DIA > 600mm
S1066	A	ACCESS CHAMBER RECTANGULAR ROOS SLAB
S1070	C	FIELD INLET PITS
S1095	C	SUBSURFACE DRAINAGE FLUSHING POINTS / OUTLET

TMR STANDARD DRAWINGS

Drawing Number	REVISION	Drawing Description
1310	C	FIELD INLET PIT TYPE 2

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SAFETY IN DESIGN REPORT

ARE THERE ANY ADDITIONAL HAZARDS/RISKS NOT NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING?

☐ NO

☒ YES--REFER TO THE FOLLOWING

CONSTRUCTION / MAINTENANCE / CLEANING / OPERATION.

1.1 WORKS TO BE CARRIED OUT AROUND OVERHEAD ELECTRICAL.

1.2 SURVEY WAS NOT UNDERTAKEN AS PART OF THE DESIGN. UNIDENTIFIED SERVICES MAY BE ENCOUNTERED DURING CONSTRUCTION.

1.3 STORMWATER NETWORK DESIGNED FOR MINOR FLOWS ONLY ON INSTRUCTION FROM COUNCIL.

1.4 INLET STRUCTURE 1/01 HAS A DOME GRATE (NO HEADWALL) FOR PONDING FLOWS.

1.5 CONSTRUCTION NEAR SCHOOL, PROGRAM WORKS IN SCHOOL HOLIDAYS.

GENERAL

- N1. THE INFORMATION CONTAINED IN THIS DOCUMENT PRODUCED BY AECOM AUSTRALIA PTY LTD IS SOLELY FOR THE USE OF THE CAIRNS REGIONAL COUNCIL FOR THE PURPOSE FOR WHICH IT HAS BEEN PREPARED AND AECOM AUSTRALIA PTY LTD UNDERTAKES NO DUTY TO OR ACCEPTS ANY RESPONSIBILITY TO ANY THIRD PARTY WHO MAY RELY UPON THIS DOCUMENT.
- N2. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH ALL THE OTHER CONSULTANT'S DRAWINGS AND SPECIFICATIONS AND WITH SUCH OTHER WRITTEN INSTRUCTIONS AS MAY BE ISSUED DURING THE COURSE OF THE CONTRACT. ALL DISCREPANCIES SHALL BE REFERRED TO THE SITE SUPERINTENDENT FOR A DIRECTION PRIOR TO PROCEEDING WITH THE WORK.
- N3. EXISTING SIGNS INSIDE PROJECT WORKS TO BE REMOVED AND REINSTATED UPON COMPLETION OF WORKS. REFER DRG S1041 FOR INSTALLATION DETAILS.
- N4. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT SPECIFICATION FOR THE WORKS TOGETHER WITH THE REQUIREMENTS OF ALL THE RELEVANT CODES OF PRACTICE REFERRED TO THEREIN AND THE REQUIREMENTS OF THE STATUTORY AUTHORITIES WHERE APPLICABLE.
- N5. ALL LOCATIONS, ORIENTATION AND LEVELS SHALL BE VERIFIED ON SITE BEFORE COMMENCING ANY WORK, DISCREPANCIES SHALL BE REFERRED TO THE DESIGN MANAGER.
- N6. WHERE A CONNECTION IS MADE TO AN EXISTING DRAINAGE PIPE OR PIT, THEN THE LEVEL OF THAT ELEMENT MUST BE SURVEYED PRIOR TO CONSTRUCTION. THE SURVEYED LEVELS SHALL BE PROVIDED TO THE ADMINISTRATOR TO CONFIRM THE CONNECTION AND LEVELS PRIOR TO CONSTRUCTION.
- N7. LOCATION AND LEVEL OF ALL SERVICES CROSSING PROPOSED DRAINLINES MUST BE CONFIRMED PRIOR TO CONSTRUCTION. DRAINLINE LEVELS MUST BE CHECKED FOR CONFLICT WITH SERVICES AND CONFLICTS RESOLVED WITH THE ADMINISTRATOR.
- N8. DO NOT OBTAIN DIMENSIONS BY SCALING DRAWINGS
- N9. NATURAL SURFACE LEVELS ON THE DRAWINGS ARE INDICATIVE ONLY.
- N10. ALL LEVELS ARE IN METRES TO AHD

PROJECT SURVEY NOTES

- P1. REFER CRC DRAWINGS 22731s AND 'KAMERUNGA SURVEY 28 November 2018 (3D).dwg' FOR SURVEY DATA INCLUDING SURVEY CONTROL, SURVEY AZIMUTH AND LEVEL DATUM

UTILITIES

- U1. EXISTING SERVICES INDICATED ON THE DRAWINGS ARE INDICATIVE ONLY AND MAY NOT INCLUDE ALL SERVICES PRESENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CHECK THE POSITION OF ALL SERVICES WITH ALL SERVICES AUTHORITIES, AND ESTABLISH THE POSITION, LEVEL AND SIZE OF THE UTILITY SERVICES AND ANY CONFLICTS IN THE FIELD PRIOR TO PROCEEDING WITH ANY CONSTRUCTION OR EXCAVATION WORK.
- U2. WHERE THE CONTRACT REQUIRES THE CONTRACTOR TO ADJUST, REMOVE, DIVERT, CUT INTO OR CUT OFF ANY SERVICE, THE CONTRACTOR SHALL ARRANGE FOR THE NECESSARY WORK TO BE EXECUTED AT THEIR COST. WHERE THE CONTRACT DOES NOT NOMINATE THE CONTRACTOR TO CARRY OUT SUCH WORK, THE CONTRACTOR SHALL ADVISE THE SITE SUPERINTENDENT.
- U3. THE CONTRACTOR MUST TAKE EVERY PRECAUTION TO PROTECT EXISTING WATER, STORMWATER, SEWERAGE, ELECTRICITY, GAS, TELEPHONE CONDUITS, AND OTHER EXISTING WORKS AND SERVICES. ANY DAMAGE TO EXISTING UTILITIES SHALL BE RECTIFIED AT THE CONTRACTORS COSTS.

KERBS

- K1. KERBS SHALL BE FOUNDED ON A MINIMUM OF 75mm THICK SUBTYPE 2.1 GRAVEL. COMPACTED TO 100% STANDARD DRY DENSITY. REFERENCE SHOULD BE MADE TO FNQROC STD DRG. S1000 FOR DETAILS.
- K2. CONCRETE COMPRESSIVE STRENGTH SHALL BE N32 AT 28 DAYS U.N.O.
- K3. KERBS JOINT SPACING AND DETAILS IN ACCORDANCE WITH THE FNQROC SPECIFICATION S2.

STORMWATER DRAINAGE

SUBSOIL DRAINS:

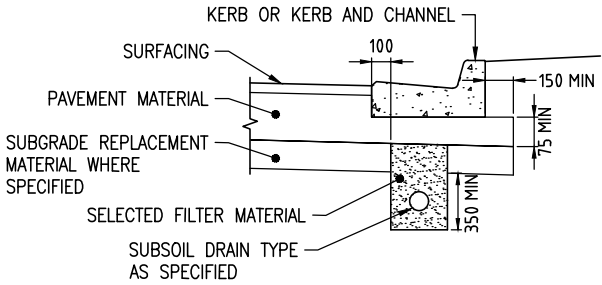
- S1. ALL SUBSOIL DRAINS TO BE CLASS 1000 POLYETHYLENE CORRUGATED SLOTTED PIPE TO AS2439.1. DRAINS SHALL OUTLET AT DRAINAGE PIT, PREFERABLY OR STORMWATER PIPE 200 ABOVE INVERT MIN GRADE 0.5%, UNLESS APPROVED OTHERWISE. OTHER PIPES AND FITTINGS TO BE uPVC TO AS 1254.
- S2. FILTER MATERIALS NOT COMPLYING WITH THE SPECIFIED GRADING REQUIREMENTS MAY BE USED WHEN APPROVED BY THE RELEVANT COUNCIL. A GEOFABRIC MAY BE USED TO LINE TRENCHES WHERE APPROVED BY THE RELEVANT COUNCIL.
- S3. IMPERVIOUS MATERIAL TO BE PROVIDED WHERE SUBSOIL DRAINAGE IS NOT UNDER A PAVEMENT. WHEN IMPERVIOUS MATERIAL IS OMITTED THE BACKFILL/SELECTED FILTER MATERIAL SHALL EXTEND TO UNDERSIDE OF PAVEMENT.
- S4. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS SHOWN OTHERWISE.

REINFORCED CONCRETE PIPES:

- D1. ALL REINFORCED CONCRETE STORMWATER DRAINAGE PIPES TO BE FLUSH JOINTED AND BE LAID ON HS2 BEDDING IN ACCORDANCE WITH "CONCRETE PIPE SELECTION AND INSTALLATION" (CONCRETE PIPE ASSOCIATION OF AUSTRALIA) UNLESS NOTED OTHERWISE.
- D2. ALL STORMWATER PIPEWORK IS TO BE LAID WITH THE SOCKET FACING UPSTREAM. ALL WORKS ARE TO COMMENCE AT THE OUTLET END OF EACH LINE.
- D3. ALL REINFORCED CONCRETE PIPES SHALL BE SUITABLE FOR FRESHWATER ENVIRONMENTS, UNO. REFERENCE SHOULD BE MADE TO FNQROC STD DRG S1046 FOR EXCAVATION, BEDDING AND BACKFILLING DETAILS.
- D4. THE CONTACTOR IS TO PROVIDE DIVERSION WORKS ETC, TO PROTECT WORKS IN PROGRESS UNTIL SUCH A TIME AS THE WORKS ARE IN A FINISHED AND STABLE CONDITION.
- D5. ANY DAMAGE TO THE WORKS DUE TO STORMWATER FLOWS OR FLOODING DURING THE CONSTRUCTION PERIOD IS AT THE CONTRACTOR'S RISK.

STORMWATER STRUCTURES:

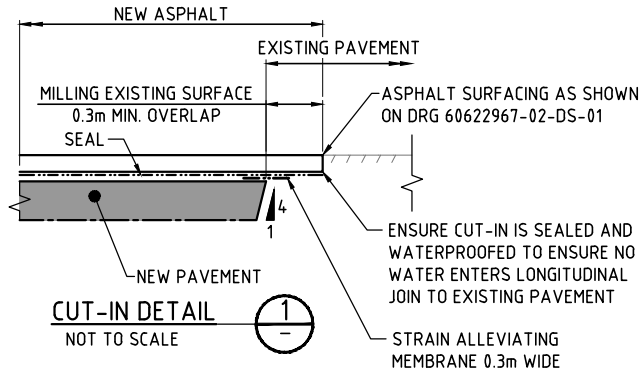
- D7. STORMWATER STRUCTURES ARE TO BE CONSTRUCTED PERPENDICULAR TO THE INCOMING PIPEWORK UNLESS SHOWN OR NOTED OTHERWISE.
- D8. CONCRETE STRENGTH, COVER TO REINFORCEMENT AND EXPOSURE CLASSIFICATION B1 AND HAVE BEEN BASED ON THE USAGE OF THE DRAINAGE SYSTEM FOR FRESH WATER ONLY.
- D9. SETOUT POINT FOR STORMWATER STRUCTURES IS AS INDICATED IN LONG SECTIONS REFER DRGS. 60622967-02-LS-01 UNLESS NOTED OTHERWISE.
- D10. FOR MANHOLE/GRATED PIT CONSTRUCTION WITH PIPES GREATER THAN Ø750, REFER TO FNQROC STD. DRG. S1055
- D11. FOR LIP IN LINE TYPE INLET PIT ARRANGEMENT REFER TO FNQROC STD DRG S1050.
- D12. FOR MANHOLE PIT ROOF CONSTRUCTION, REFER TO FNQROC STD DRG. S1066
- D13. FOR DETAILS OF PRECAST KERB INLET LINTEL REFER FNQROC STD DRG S1050.
- D14. PROVIDE 100mm SUBSOIL PIPE FOR STORMWATER TRENCH DRAINAGE, 3000mm LONG WRAPPED IN TUBULAR, SEAMLESS FILTER SOCK AT EACH STORMWATER ACCESS CHAMBER ADJACENT TO INLET PIPEWORK. DRAINCOIL OR APPROVED EQUIVALENT. (IF ORDERED)
- D15. FOR SUBSURFACE DRAINAGE DETAILS REFER FNQROC STD DRG S1095.
- D16. ALL STORMWATER WORKS TO REFER TO FNQROC SPECIFICATIONS S4.
- D17. EXISTING ROOFWATER DRAINAGE CONNECTIONS AND KERB ADAPTORS TO BE REINSTATED WHERE EXISTING KERBS ARE BEING REPLACED.
- D18. STEEL GRATES AND FRAMES ARE TO BE FABRICATED FROM MILD STEEL AND HOT DIP GALVANISED. ALL GRATES ARE TO CLASS D (UNLESS NOTED OTHERWISE) AND BICYCLE SAFE IN ACCORDANCE WITH AUSTRALIAN STANDARD AS 3996 UNLESS NOTED OTHERWISE



DETAIL SCALE: 1:20 TYPICAL LOCATION NEW CONSTRUCTION

SETOUT DATA – STORMWATER PITS A			
Point No.	Easting	Northing	Elevation
A1	360403.320	8133445.204	16.500
A2	360403.805	8133447.247	16.500
A3	360406.531	8133444.442	16.500
A4	360407.016	8133446.485	16.500

SETOUT DATA – BARRIER KERB B			
Point No.	Easting	Northing	Elevation
B1	360415.104	8133444.824	16.441
B2	360414.066	8133445.922	16.421
B3	360411.444	8133448.572	16.445
B4	360410.198	8133449.540	16.494
B5	360409.339	8133449.913	16.541
B6	360406.509	8133450.349	16.733
B7	360403.679	8133449.913	16.932



ROAD RESTORATION NOTES

- EXISTING ROAD AND FOOTPATH REINSTATEMENT FOR PIPELINE CONSTRUCTION TO BE IN ACCORDANCE WITH FNQROC STANDARD DRG S1046. NOTING THAT THE CROSSING OF THE ROAD IS PERPENDICULAR TO THE KERB. EXTEND ASPHALT TO CLOSEST LONGITUDINAL LIP OF KERB.
- REINSTATEMENT OF OTHER FEATURES INCLUDING GARDENS BEDS, PLANTS, PAVERS, SIGNAGE, LINEMARKING, AND SO ON; TO BE REPLACED AS DIRECTED BY THE SUPERINTENDENT TO EQUAL TO OR BETTER THAN THE EXISTING CONDITION.
- THE ROAD PAVEMENT DESIGN SHALL BE UNBOUND SUBTYPE 2.1 (CBR 80%) PLACED AND COMPACTED IN ACCORDANCE WITH MRTS05 TO A DEPTH EQUAL TO THE EXISTING PAVEMENT LAYERS. REFER BELOW DETAIL FOR THE SURFACING DESIGN.

SURFACING DESIGN

50mm AC14M (A15E) ASPHALT SURFACING

PRIME - AMC00 @ 0.9 l/m²

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SETOUT DATA – LAYBACK KERB C

Point No.	Easting	Northing	Elevation
C1	360410.925	8133469.576	15.897
C2	360409.587	8133471.537	15.840
C3	360408.114	8133473.930	15.752
C4	360406.862	8133476.472	15.641
C5	360405.862	8133479.098	15.507
C6	360405.113	8133481.806	15.361
C7	360404.617	8133484.597	15.213
C8	360404.388	8133487.397	15.067
C9	360404.315	8133489.486	14.958
C10	360404.242	8133491.576	14.850

SETOUT DATA – CONCRETE INVERT D

Point No.	Easting	Northing	Elevation
D1	360404.388	8133497.595	14.540
D2	360404.535	8133499.854	14.472
D3	360406.502	8133518.894	13.802
D4	360408.470	8133537.933	13.144
D5	360411.321	8133565.524	12.346
D6	360411.874	8133570.877	12.177

SETOUT DATA – BARRIER KERB E

Point No.	Easting	Northing	Elevation
E1	360412.858	8133567.219	12.384
E2	360411.104	8133572.189	12.158
E3	360410.870	8133577.110	11.960
E4	360412.641	8133595.957	11.151
E5	360414.339	8133614.040	10.340

PRIME NOTES

BITUMEN SPRAY RATES ARE INDICATIVE ONLY AND NEED TO BE CONFIRMED ON SITE.

PRIME ONLY REQUIRED IF EXPOSED SURFACE IS GRANULAR. IF EXPOSED SURFACE IS ASPHALT, A BITUMINOUS TACK COAT CAN BE APPLIED AT 0.2L/m² PRIOR TO THE PLACEMENT OF AC14M (A15E) OR AC7 (A15E).

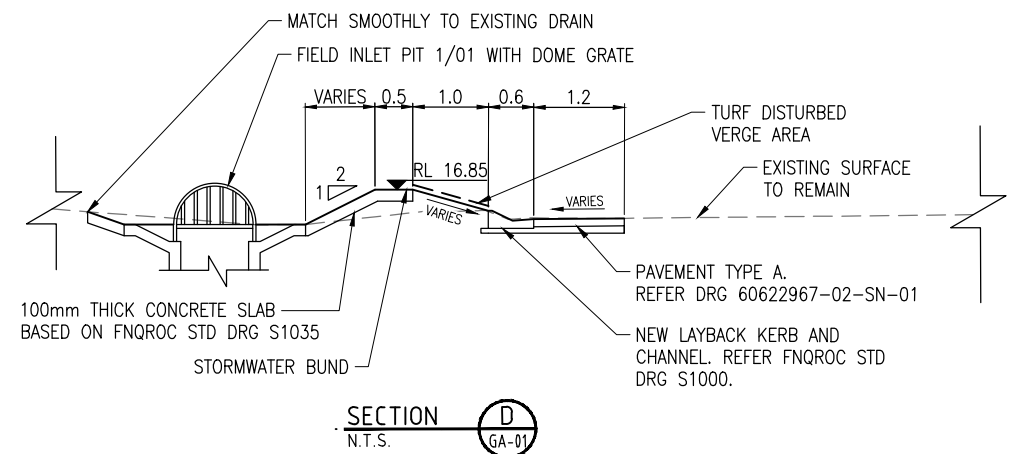
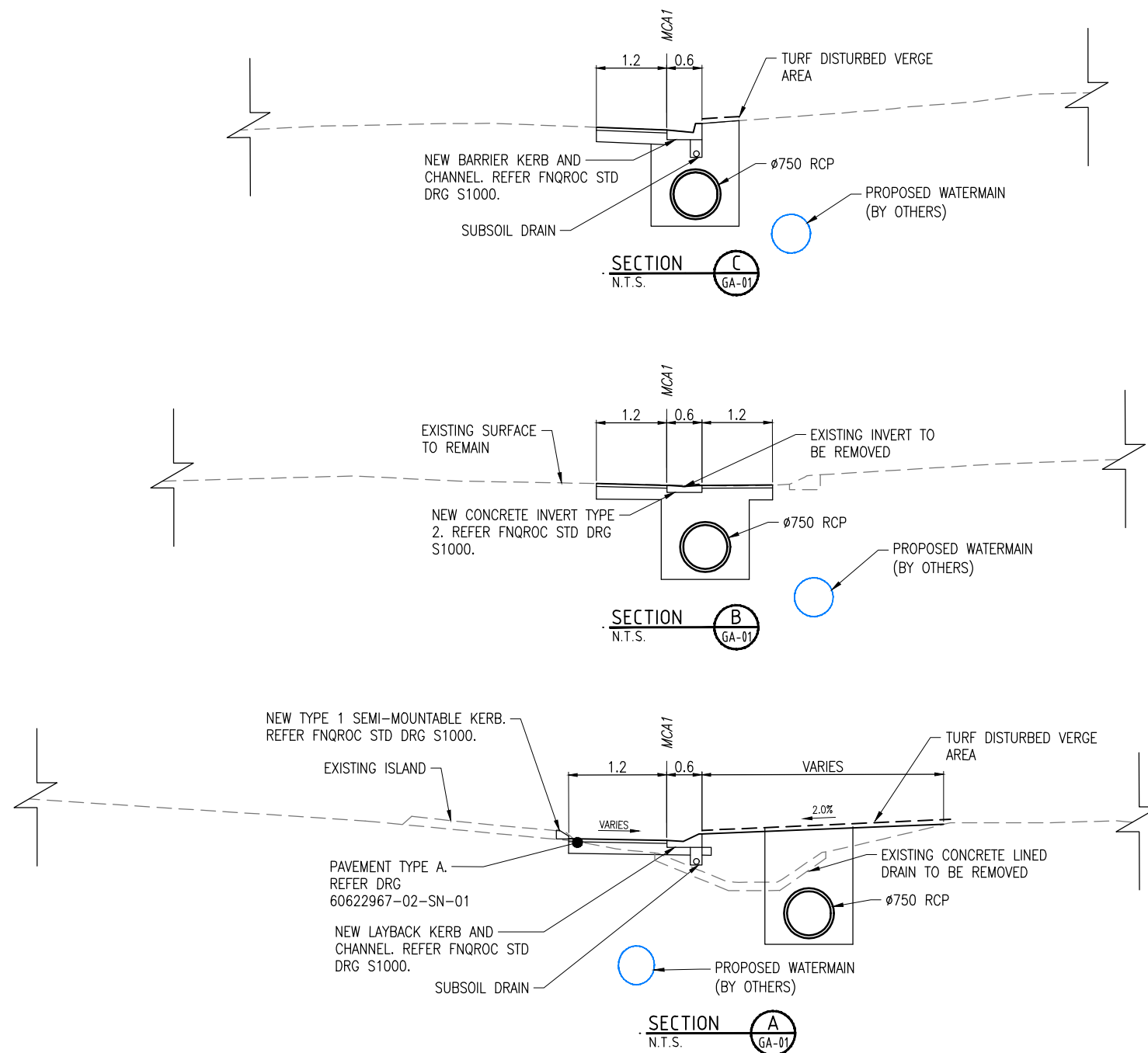
SUBGRADE NOTES

SUBGRADE TREATMENT AS DIRECTED BY SUPERINTENDENT IN ACCORDANCE WITH TMR MRTS04.
MINIMUM TREATMENT: MRTS04 SUBGRADE TREATMENT
COMPACT EXISTING TO 150mm DEPTH TO
MINIMUM 97% DRY DENSITY RATIO (STANDARD COMPACTION)
SUBGRADE STRENGTH TO BE DETERMINED DURING CONSTRUCTION AS PER TMR Q113A

REFERENCE POINT LOCATION FOR DRAINAGE STRUCTURES

AS SHOWN ON LONG SECTIONS

STRUCTURE TYPE	HORIZONTAL CONTROL REFERENCE POINT LOCATION	VERTICAL CONTROL (REFERENCE LEVEL)
GULLY PIT		LIP OF KERB AND CHANNEL
MANHOLE / FIELD INLET PIT		GRATE/LID LEVEL



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CONSTRUCTION

LEGEND

- KERB AND CHANNEL
- Ø375 STORMWATER LINE
- GULLY PIT
- GRATED PIT
- SUBSOIL DRAIN
- EXISTING CONTOURS (INT. 0.1m)
- (w)—(w)— PROPOSED WATER MAIN (BY OTHERS)

THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN APPROXIMATED FROM THE KNOWN POSITIONS OF VALVES, MANHOLES ETC, AND INFORMATION SUPPLIED BY THE SERVICE AUTHORITIES, AND NO RESPONSIBILITY IS TAKEN FOR THE COMPLETENESS OF THE INFORMATION SUPPLIED.

SERVICE RELOCATIONS OR NEW SERVICE INSTALLATIONS MAY OR MAY NOT BE COMPLETED AT TIME OF CONSTRUCTION AND FOR FURTHER DETAILS, REFER THE RELEVANT AUTHORITY.

POSSIBLE SERVICE CONFLICTS ARE SHOWN THUS: NOT ALL CONFLICTS HAVE NECESSARILY BEEN SHOWN. CONTRACTOR TO CONFIRM AND ALL SERVICES AND IDENTIFY ANY CONFLICTS ON SITE PRIOR TO CONSTRUCTION.

D.B.Y.D. REFERENCE NO. 20455249 DATE: 19/10/2020

ALL EXISTING SERVICE VALVES, HYDRANTS & LIDS TO BE MODIFIED TO MATCH TOP OF FINISHED SURFACE LEVEL. WORKS TO BE COMPLETED BY THE RELEVANT AUTHORITY.

- (1) POT HOLE DEPTH TO EXISTING SURFACE
(2) SIZE/TYPE OF SERVICE
(3) NOTES
- 500mm (1)
630 HDPE (2)
ABANDON (3)

EXISTING SERVICES LEGEND

- POTENTIAL SERVICE CONFLICT
- SERVICE ABANDONED
- AREA OF ROAD PAVEMENT WORKS
- EXISTING ELECTRICITY
- EXISTING OVERHEAD ELECTRICITY
- EXISTING TELSTRA
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING SEWER RISING MAIN
- EXISTING DRAINAGE
- EXISTING WATER HYDRANT/VALVE

NOTES

- REFER LONGITUDINAL SECTIONS ON DRG. 60622967-02-LS-01. FOR PIT DETAILS.
- FOR STANDARD NOTES REFER DRG 60622967-02-SN-01.
- REFER 60622967-02-DS-01 FOR KERB SETOUT.

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CAIRNS REGIONAL COUNCIL

HARLEY STREET DRAINAGE UPGRADE
GENERAL ARRANGEMENT PLAN

CONSTRUCTION

60622967-02-GA-01

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REVISIONS				
No.	BY	DATE	DESCRIPTION	APPD
0			CONSTRUCTION ISSUE	

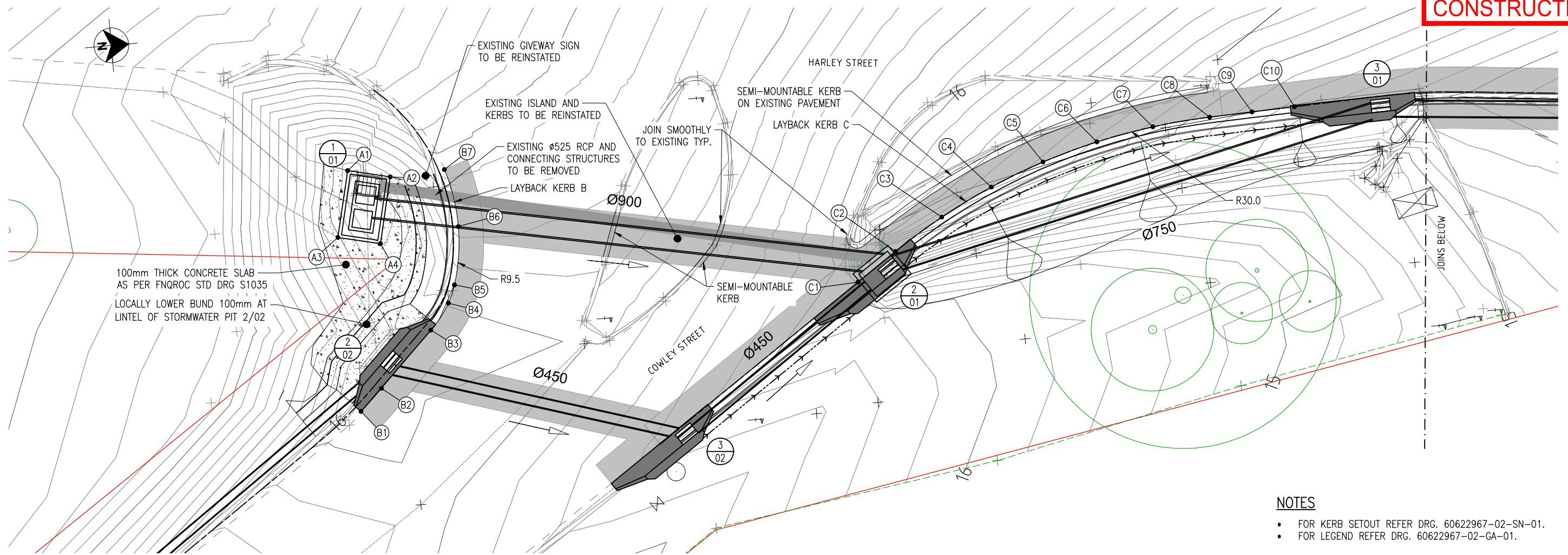
Scale	
SCALE C	1:500 (A3) 1:250 (A1)

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DESIGNED	D.CARR	CHECKED	P.JOHNSON
DRAWN	D.CARR	CHECKED	A.BORZI
APPROVED	S.SNELLING	DATE	19.02.2021
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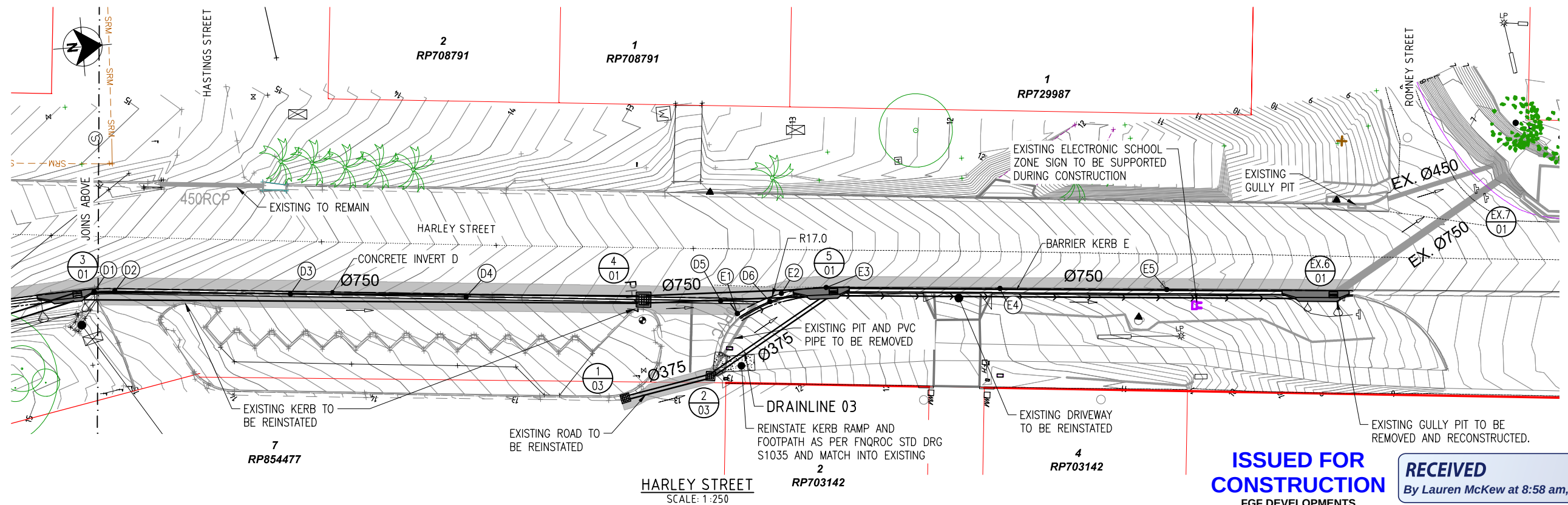
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Plan 04 of 08



COWLEY STREET
SCALE: 1:100

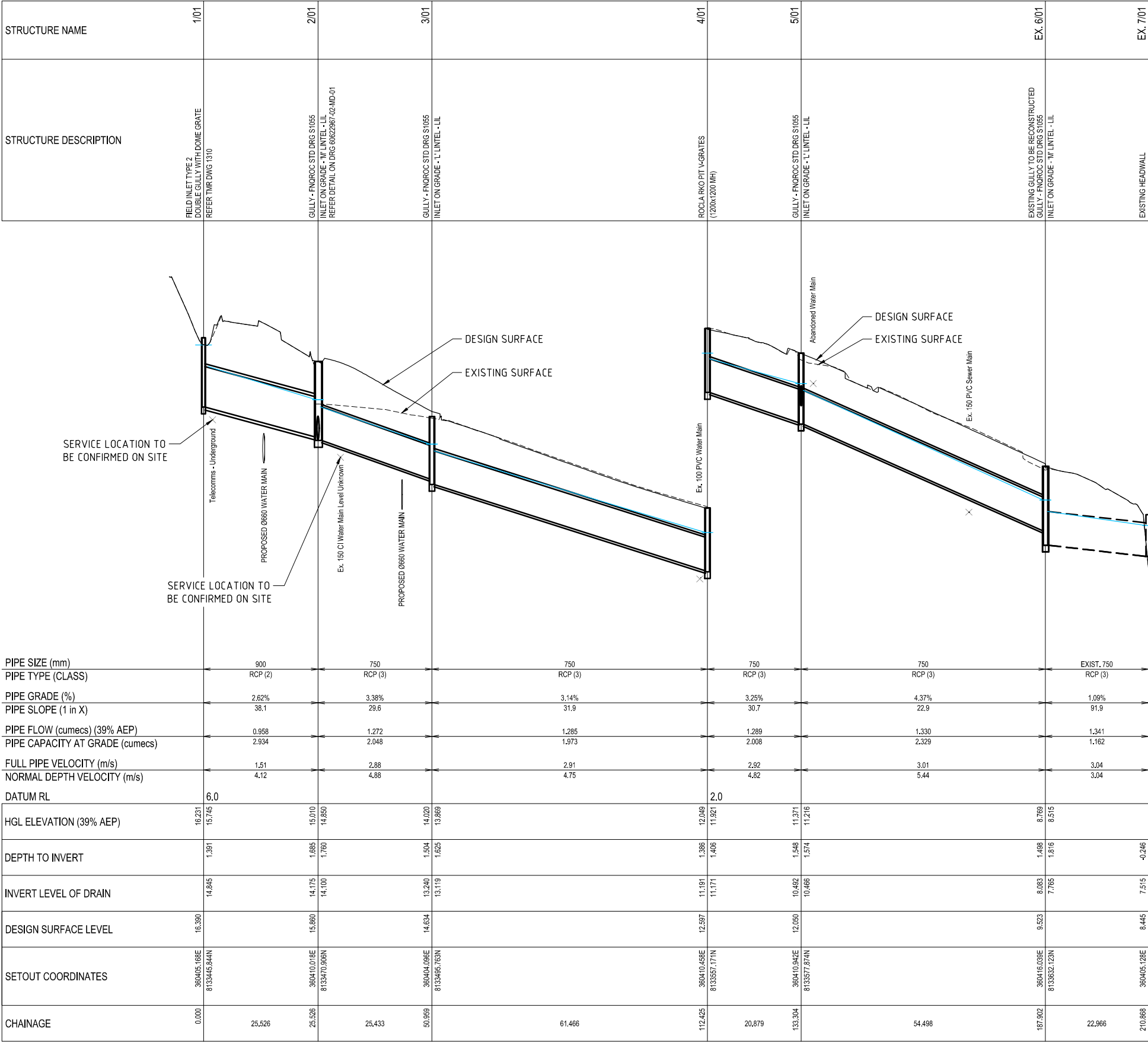


HARLEY STREET
SCALE: 1:250

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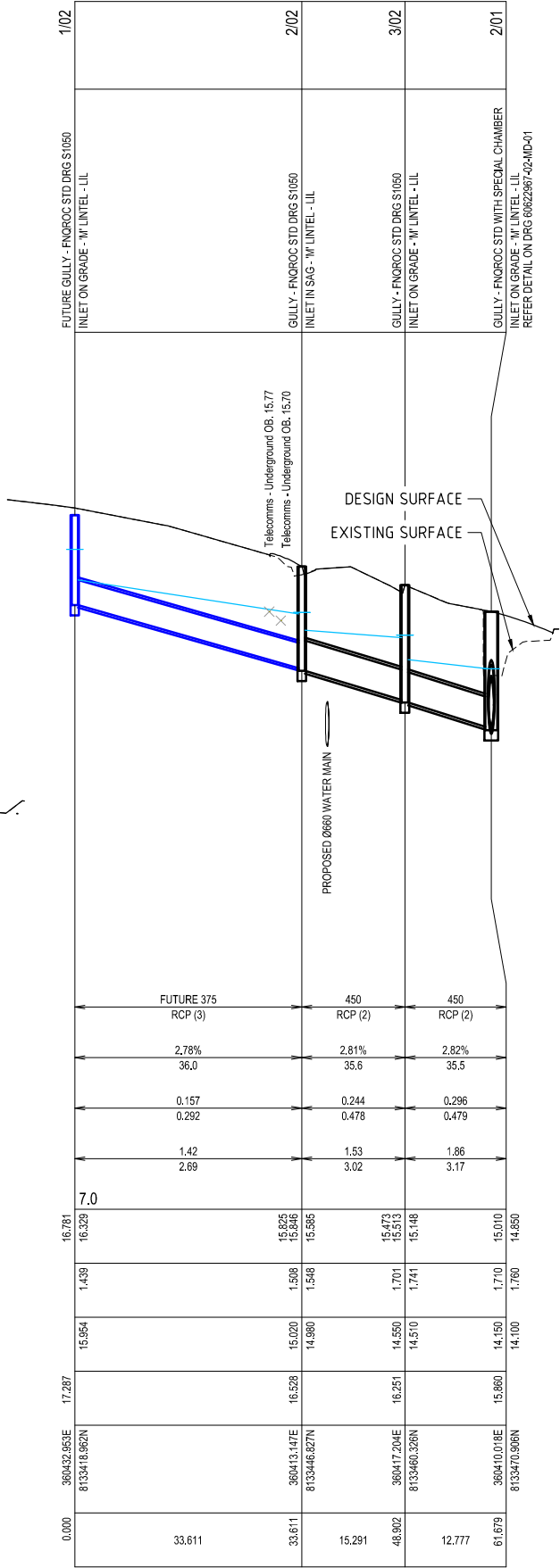
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REVISIONS				SCALE E		DESIGNED		D.CARR		CHECKED		P.JOHNSON		HARLEY STREET DRAINAGE UPGRADE	
				SCALE C		DRAWN		D.CARR		CHECKED		A.BORZI		DETAILED SETOUT PLAN	
						APPROVED		S.SNELLING		DATE		19.02.2021		Status	
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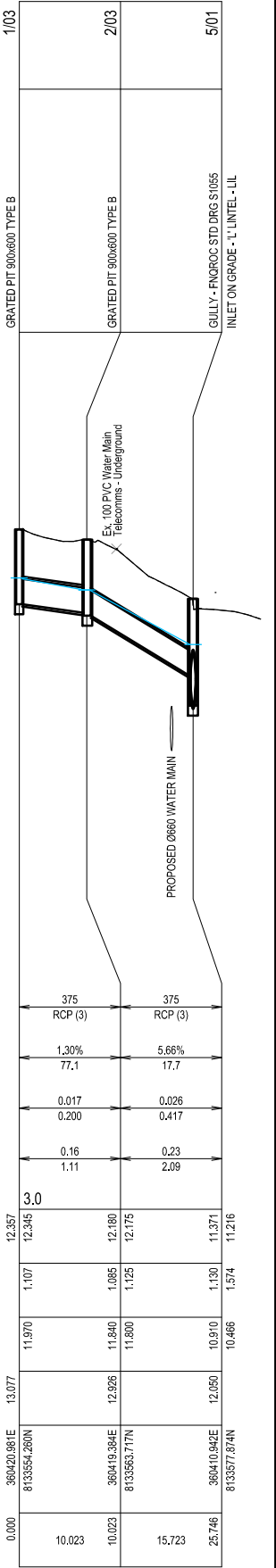


LINE

01



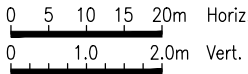
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DRAWN	D.CARR	CHECKED	A.BORZI
APPROVED	S.SNELLING	DATE	19.02.2021

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CAD REF: 60622967-02-LS-01
Last Modified: Friday, 19 February 2021 4:35:16 PM

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CAIRNS REGIONAL COUNCIL
HARLEY STREET DRAINAGE UPGRADE
STORMWATER LONGITUDINAL SECTIONS

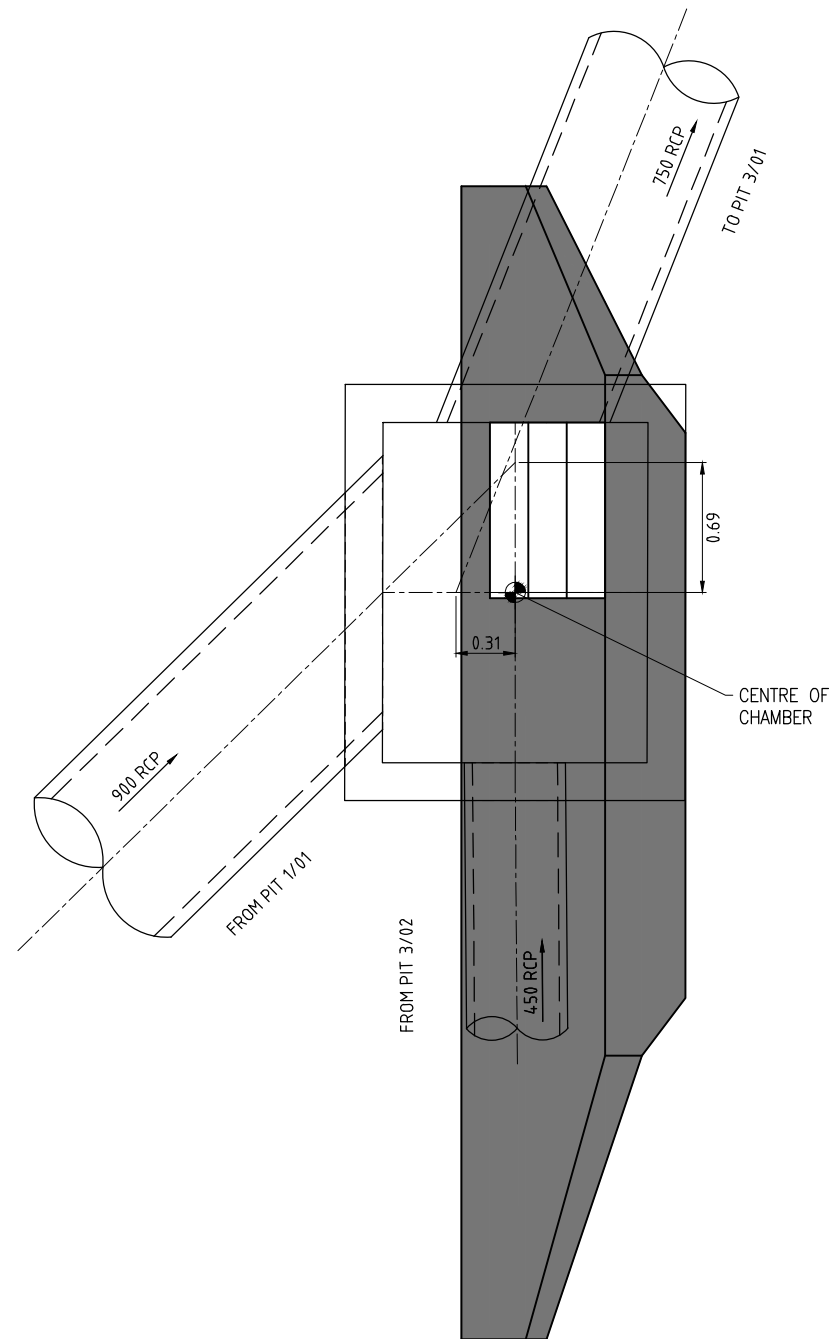
Plan 06 of 08

Status CONSTRUCTION

Dwg No. 60622967-02-LS-01

Rev. 0

39.35% AEP	CONSTRUCTION																																			



MH 2/01
(1800x1400 NOM.)
SCALE H

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REVISIONS							DESIGNED	D.CARR	CHECKED	P.JOHNSON			HARLEY STREET DRAINAGE UPGRADE MISCELLANEOUS DETAILS									
							DRAWN	D.CARR	CHECKED	A.BORZI												
							APPROVED	S.SNELLING	* DATE	19.02.2021												
							CAD REF: P:\606x\60622967_02\900_CAD_GIS\910_CAD\20_Sheets CAD REF: 60622967-02-MD-01 Last Modified: Friday, 19 February 2021 4:35:22 PM				* DENOTES SIGNATURE ON ORIGINAL DRAWING ONLY											
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											Status		CONSTRUCTION		Org No		60622967-02-MD-01		Rev.		0	