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To: **City of Gold Coast Council**

Address : **PO Box 5042**
GCMC 9726

Attention: **Development Assessment**



PROJECT:

OPERATIONAL WORKS APPLICATION FOR TRUNK INFRASTRUCTURE (STAPYLTON XGMA21 GRAVITY SEWER)

Job No: 5941

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OPERATIONAL WORKS APPLICATION FOR TRUNK INFRASTRUCTURE

CoGC STAPYLTON XGMA21 GRAVITY SEWER "VANTAGE YATALA"

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594I ENG EXTSEW 005	A	KEY PLAN LAYOUT
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CLIENT / APPLICANT:



FRASERS

PROPERTY

FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

SITE ADDRESS

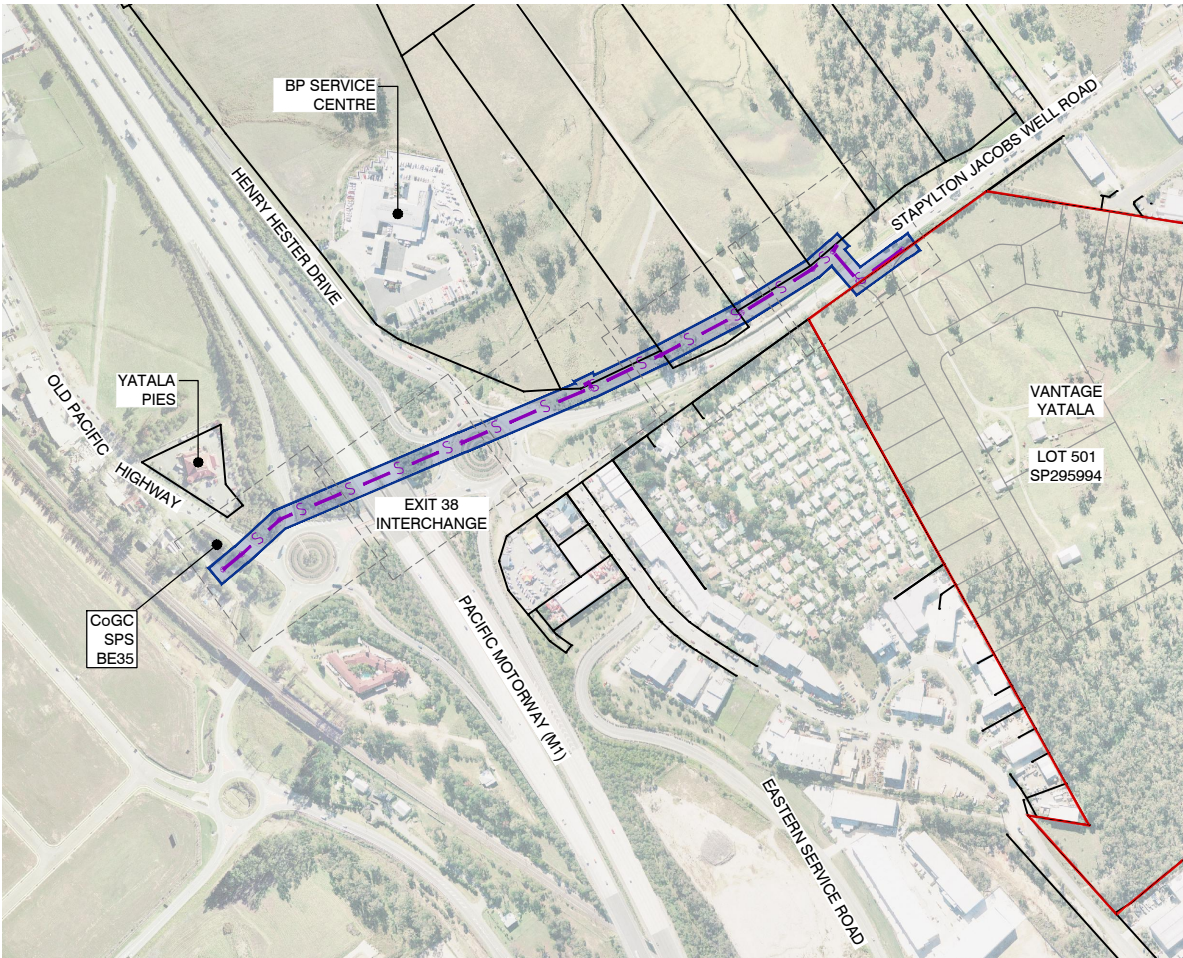
STAPYLTON JACOBS WELL ROAD
STAPYLTON QLD 4207

ISSUED FOR
APPROVAL

08/05/2020

DWG No. 594I ENG EXTSEW 001 – REV A

MAY 2020



LOCALITY PLAN

SCALE 1:4000 (A1)

CONTRACT DOCUMENTATION

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE CONTRACT SPECIFICATION, SEQ CODE, SEQ CODE STANDARD DRAWINGS, CoGC STANDARD DRAWINGS AND SPECIFICATIONS AND DEPARTMENT OF TRANSPORT & MAIN ROADS STANDARD DRAWINGS AND SPECIFICATIONS.

2. DATUM
LEVELS SHOWN ON THE PLANS ARE A.H.D.

3. SURVEY SETOUT
THE SURVEY SET OUT INFORMATION TO ALLOW THE CONTRACTOR TO ACCURATELY SET OUT THE WORKS HAS BEEN ESTABLISHED ON SITE BY THE PRINCIPAL'S SURVEYOR. THE CONTRACTOR IS NOT TO SCALE FROM THESE PLANS AS A MEANS OF OBTAINING SETOUT INFORMATION.

4. EXISTING SURVEY CONTROL STATIONS
IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT EXISTING SURVEY CONTROL STATIONS ARE NOT DISTURBED OR DAMAGED BY CONSTRUCTION ACTIVITIES. SHOULD THE CONTRACTOR IDENTIFY ANY CONFLICT BETWEEN EXISTING SURVEY CONTROL AND THE REQUIRED CONSTRUCTION ACTIVITIES THE SUPERINTENDENT IS TO BE NOTIFIED IMMEDIATELY.

5. EXISTING SERVICES
THE LOCATION OF EXISTING SERVICES WHERE SHOWN ON THE PLANS HAVE BEEN POTHOLED, HOWEVER SOME SERVICES OUTSIDE OF THE WORKS AREA ARE INDICATIVE ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE RELEVANT SERVICE AUTHORITIES TO ASCERTAIN THE EXACT LOCATION OF ALL EXISTING SERVICES AND TAKE ALL NECESSARY PRECAUTIONS TO AVOID DAMAGE TO THE EXISTING SERVICES.

6. SITE ACCESS
THE CONTRACTOR SHALL ONLY GAIN ACCESS TO THE SITE VIA ACCESS LOCATIONS APPROVED BY THE SUPERINTENDENT. FREEDOM OF ACCESS TO OTHER WORK AREAS ON THE SITE SHALL BE MAINTAINED AT ALL TIMES.

7. PROVISION FOR TRAFFIC
PROVISION FOR TRAFFIC ON LOCAL ROADS SHALL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CoGC COUNCIL REQUIREMENTS.

8. WORK EXTENT
THE CONTRACTOR IS TO RESTRICT ACTIVITIES TO THOSE AREAS DESIGNATED AS WORKS AREAS UNDER THE CONTRACT. AT NO TIME IS THE CONTRACTOR TO ENTER ADJOINING PROPERTIES OR CONTRACT AREAS WITHOUT THE WRITTEN AUTHORISATION OF THE SUPERINTENDENT.

9. TESTING
ALL TESTING IS TO BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY IN ACCORDANCE WITH THE PROJECT SPECIFICATION AND REQUIREMENTS OF CoGC COUNCIL.

10. "AS CONSTRUCTED" SURVEY
"AS CONSTRUCTED" SURVEY SHALL BE CARRIED OUT BY THE PRINCIPAL'S SURVEYOR AS WORK PROCEEDS. THE CONTRACTOR IS TO PROVIDE ADEQUATE NOTICE TO THE PRINCIPAL'S SURVEYOR ON WHEN THIS IS REQUIRED TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF CoGC COUNCIL.

11. MAINTENANCE OF SITE CONDITION
AT THE COMPLETION OF WORKS THE SITE IS TO BE LEFT IN A CLEAN AND TIDY CONDITION TO THE SATISFACTION OF THE SUPERINTENDENT AND CoGC.

EARTHWORKS

1. PRECEDENCE
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD CoGC & DTRM EARTHWORKS NOTES.

2. TOPSOIL STRIPPING
TOPSOIL SHALL BE STRIPPED ACROSS THE ENTIRE LIMIT OF THE EARTHWORKS CUT AND FILL AREAS AND SHALL BE STOCKPILED IN A LOCATION APPROVED BY THE SUPERINTENDENT. THE EXISTING STRATA IS TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO PLACING ANY FILL.

3. EARTHWORKS LEVELS
EARTHWORKS LEVELS SHOWN ON THE DRAWING ARE TO FINISHED SURFACE LEVELS AND INCLUDE 100mm OF TOPSOIL. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.

4. UNDESIRABLE MATERIAL
THE ENTIRE SITE/WORK AREAS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.

5. COMPACTION STANDARD
FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.
a. 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.
b. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.
c. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.

5. PAVEMENT DEPTHS
EARTHWORKS VOLUMES DO NOT INCLUDE DESIGN PAVEMENT DEPTHS AS INDICATED ON THE TYPICAL BULK EARTHWORKS ROAD SECTION.

6. TESTING
ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY.

7. ROCK
THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR EARTHWORKS RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT DOCUMENT.

1. **PRECEDENCE**
EARTHWORKS SPECIFICATION PREPARED BY PROJECT GEOTECHNICAL ENGINEER TO TAKE PRECEDENCE OVER STANDARD CoGC & DTMR EARTHWORKS NOTES.
2. **TOPSOIL STRIPPING**
TOPSOIL SHALL BE STRIPPED ACROSS THE ENTIRE LIMIT OF THE EARTHWORKS CUT AND FILL AREAS AND SHALL BE STOCKPILED IN A LOCATION APPROVED BY THE SUPERINTENDENT. THE EXISTING STRATA IS TO BE TREATED IN ACCORDANCE WITH THE SPECIFICATION PRIOR TO PLACING ANY FILL.
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EARTHWORKS LEVELS SHOWN ON THE DRAWING ARE TO FINISHED SURFACE LEVELS AND INCLUDE 100mm OF TOPSOIL. THE CONTRACTOR SHALL VERIFY BENCH MARK LEVELS AND ADVISE THE SUPERINTENDENT OF ANY DISCREPANCY BEFORE COMMENCEMENT OF CONSTRUCTION.
4. **UNDESIRABLE MATERIAL**
THE ENTIRE SITE/WORK AREAS SHALL BE CLEARED OF ALL UNDESIRABLE MATTER. THIS SHALL INCLUDE DEAD TIMBER, GRASS, OLD FOUNDATIONS, CONCRETE, MASONRY REMAINS, GARBAGE, DEBRIS AND ALL OTHER OBSTRUCTIONS TO THE WORKS UNLESS NOTED OTHERWISE. HOLES LEFT BY THE REMOVAL OF ANY OF THE ABOVE SHALL BE FILLED WITH APPROVED COMPACTED MATERIAL WITH PROPERTIES AT LEAST SIMILAR TO INSITU SOILS.
5. **COMPACTION STANDARD**
FILL MATERIAL SHALL BE COMPACTED TO THE FOLLOWING STANDARD, WHERE DRY DENSITY RATIO IS DETERMINED IN ACCORDANCE WITH AS 1289 USING STANDARD COMPACTION METHODS.
 - a. 100% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 80% IN COHESIONLESS MATERIAL FOR ROAD SUBGRADE.
 - b. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 65% IN COHESIONLESS MATERIAL FOR ALL AREAS OTHER THAN THE ROADWAY AND BUILDING PADS.
 - c. 98% DRY DENSITY RATIO IN COHESIVE MATERIAL OR 70% IN COHESIONLESS MATERIAL FOR BUILDING PADS.
5. **PAVEMENT DEPTHS**
EARTHWORKS VOLUMES DO NOT INCLUDE DESIGN PAVEMENT DEPTHS AS INDICATED ON THE TYPICAL BULK EARTHWORKS ROAD SECTION.
6. **TESTING**
ALL EARTHWORKS TO BE CARRIED OUT UNDER LEVEL 1 SUPERVISION IN ACCORDANCE WITH AUSTRALIAN STANDARDS AS 3798 UNLESS DIRECTED OTHERWISE BY THE SUPERINTENDENT. ALL COMPACTION TESTING SHALL BE CARRIED OUT BY AN APPROVED N.A.T.A TESTING AUTHORITY.
7. **ROCK**
THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR EARTHWORKS RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT DOCUMENT.

- a. ERECT SITE SIGNAGE, CONSTRUCT ENTRY AND EXIT POINT AS INDICATED
CONSTRUCT VEHICLE WASH-DOWN AREA AND ASSOCIATED SILT MANAGEMENT DEVICES.
- b. CONSTRUCT SITE OFFICE AND STORAGE COMPOUND AREA
- c. ERECT SILT FENCE AT LOW POINTS OF THE SITE AS DEMONSTRATED
- d. ERECT TEMPORARY TREE PROTECTION FENCING FOR VEGETATION TO BE RETAINED
IN ACCORDANCE WITH AN OPW (TREE CLEARING) APPROVAL OR IN ACCORDANCE WITH AS4970 PROTECTION OF TREES ON DEVELOPMENT SITE.
- e. CONSTRUCT ROCK CHECK DAMS AND SILT FENCE DOWN STREAM OF BASIN.
- f. CONSTRUCT BASIN TO FULL DEPTH.
- g. CONSTRUCT BALANCE OF BASIN IN CONJUNCTION WITH CLEARING AND BULK EARTHWORKS OPERATIONS.
- h. BASIN TO BE UTILISED AS A TEMPORARY SEDIMENT BASIN. DO NOT FILL IN
FILTRATION MATERIAL UNTIL CONSTRUCTION OF DEVELOPMENT IS COMPLETE.
2. CLEARING AND BULK EARTHWORKS
THERE SHALL BE NO CLEARING OF PROTECTED SITE VEGETATION WITHOUT AN APPROVED TREE CLEARING PLAN WHICH SHALL BE IN ACCORDANCE WITH AS4970. SILT FENCE, SAND BAGS AND EARTH RILLS WITHIN ROADS TO BE ERECTED AS INDICATED OR REQUIRED DURING CLEARING & EARTHWORKS.
SUPERINTENDENT TO CONFIRM THE EXTENT OF CLEARING PRIOR TO COMMENCEMENT OF WORKS.
3. CONSTRUCTION OF SEWER/ROOFWATER / STORMWATER / SERVICES
EXCAVATED MATERIAL TO BE PLACED ON HIGH SIDE OF TRENCH AND TO PROTECT PIPE WORK AND DIRECT SURFACE MATERIAL AWAY FROM EXCAVATIONS.
TOPSOIL AND GRASS SEED AREAS IN ALLOTMENTS IMMEDIATELY AFTER COMPLETING THE SEWER AND ROOFWATER DRAINAGE CONSTRUCTION.
DEPRESS GROUND AROUND TEMPORARY FIELD INLETS TO CREATE SILT POND.
4. CONSTRUCTION – SEDIMENT BASINS
SEDIMENT BASIN TO BE CONSTRUCTED TO THE EARTHWORK PROFILES SHOWN.
STORMWATER OUTLET PIPES TO BE TEMPORARY BLOCKED OFF UNTIL DECOMMISSIONING OF SEDIMENT BASIN (SUBSEQUENT TO CONSTRUCTION OF ALL STAGES).
PLACE SPOIL FROM SEDIMENT BASIN INTO ALLOCATED AREAS AS ENGINEERED FILL IN ACCORDANCE WITH THE STAGING ORDER.
SEDIMENT BASIN SHALL ONLY BE REMOVED AFTER APPROVAL BY SUPERINTENDENT AND COUNCIL.
5. CONSTRUCTION – STOCKPILING
TEMPORARY SILT FENCE TO BE ERECTED 5m FROM TOE OF BATTER ON LOW SIDE OF STOCKPILING.
STOCKPILE SITE TO BE CLEARED OF ADJACENT PROPERTY BOUNDARIES SO AS NOT TO CAUSE NUISANCE TO ADJOINING PROPERTIES.
NO STOCKPILES ARE TO BE LOCATED WITHIN THE DRIP ZONE OR STRUCTURAL ROOT ZONE OF ANY RETAINED VEGETATION.
6. CONSTRUCTION – ROADWORKS
SILT FENCES TO ALLOTMENTS TO BE ERECTED.
KERB INLET PROTECTION TO BE PROVIDED TO ALL GULLIES.
7. CONSTRUCTION – ALLOTMENTS
TOPSOIL AND SEED ALLOTMENTS
SILT FENCES TO ALLOTMENTS TO BE RE-ERECTED.
COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATE THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT RIMMING).
8. POST CONSTRUCTION – ALLOTMENTS
TOPSOIL AND GRASS SEED ALL ALLOTMENTS.
COVERS TO GULLY GRATES TO BE REMOVED IF THE SUPERINTENDENT INDICATES THE GRASS STRIKE IS SUFFICIENT (80% WITHIN 30 CALENDAR DAYS OF FINAL ALLOTMENT TRIMMING).
9. POST CONSTRUCTION – BASIN
BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL COMPLETION OF ALL STAGES.
10. POST CONSTRUCTION – ROAD RESERVES
TOPSOIL AND TURFING IS TO BE PROVIDED BEHIND KERB.
11. MAINTENANCE (PRE TO POST CONSTRUCTION)
THE SILT FENCES ARE TO BE INSPECTED WEEKLY.
ANY REPAIRS REQUIRED ARE TO BE EFFECTED IMMEDIATELY.
SILT AFTER RAIN IS TO BE CLEANED FROM STREETS AND ALLOTMENTS IMMEDIATELY AND CORRECTIVE ACTION TAKEN TO AVOID A RE-OCCURRENCE OF THE FAILURE.
12. BASIN CONSTRUCTION
PRIOR TO COMMENCING CONSTRUCTION OF THE DETENTION BASIN THE DIVERSION OF SURFACE WATER FROM THE PROPOSED WORK AREAS, USING MEASURES SUCH AS OPEN DRAINS/SUMPS, ARE REQUIRED TO AID IN SITE DE-WATERING.
BASIN TO CONTINUE ACTING AS SEDIMENT BASIN UNTIL 85% OF CATCHMENT CONSTRUCTION IS COMPLETE.
THE CLAY FILLING FOR THE BASIN WALLS SHALL BE PLACED IN HORIZONTAL LAYERS OF 200mm THICKNESS AND COMPACTED TO DENSITY RATIO WITHIN THE RANGE 98%–102% STANDARD COMPACTION (AS I289.5.1.1). PLACEMENT MOISTURE CONTENT SHOULD BE WITHIN THE RANGE OMC –1% TO OMC –2% (WHERE OMC = OPTIMUM MOISTURE CONTENT FOR STANDARD COMPACTION). CONTRACTOR TO PROVIDE SAFETY FENCING TO BASIN DURING CONSTRUCTION AND APPROPRIATE SIGNAGE (PERMANENT OR TEMPORARY).

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS, GOLD COAST WATER AND WASTE (GCWW) AND DTMR REQUIREMENTS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THESE DRAWINGS SHALL BE SUPERVISED BY AN ENGINEER WITH REPEATED REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO CITY OF GOLD COAST'S SEWERAGE SYSTEM.
4. ALL WORKS ON EXISTING SEWERS SHALL BE CARRIED OUT BY GOLD COAST WATER & WASTE AT THE DEVELOPER'S EXPENSE, OR AS DIRECTED BY GCWW.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST, TO CITY OF GOLD COAST REQUIREMENTS.
6. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
7. ALL MAINTENANCE HOLES GREATER THAN 4.0m IN DEPTH OR DN1500 OR LARGER ARE TO BE PE LINED IN ACCORDANCE WITH THE SEQ CODE REQUIREMENTS.
8. ALL TRUNK SEWER MAINTENANCE HOLES GREATER THAN 4.0m IN DEPTH TO HAVE BOLT DOWN TYPE D COVERS ACCORDING TO SEQ-SEW-1308-5 TO 7.
9. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300mm (LOOSE) IN DEPTH AND SHALL BE COMPACTED UNTIL THE COMPACTION IS NOT LESS THAN 95% OF THE MATERIALS MAXIMUM COMPACTION WHEN TESTED IN ACCORDANCE WITH A.S. 1289 (MODIFIED COMPACTION). TESTING SHALL BE CARRIED OUT AFTER EACH ALTERNATE LAYER. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED SEWERS WILL NOT BE ISSUED BY GCWW UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
10. WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
11. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
12. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE AND TO GCWW STANDARDS.
13. BENCH MARK AND LEVELS TO AHD.
14. EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING LIVE SEWERS SHALL ENSURE WORKS ARE UNDERTAKEN BY AN APPROVED CONTRACTOR UNDER GCWW SUPERVISION AT THE DEVELOPER'S COST.



! WARNING !
Beware of Existing Underground Services
 The locations of underground services have been physically located where indicated. However some services outside of the extent of trunk sewer works are interpolated from aerial photogrammetric data or known positions of valves, access chambers etc. or information supplied by service authorities. No responsibility is taken for the accuracy of the interpolated information supplied.



Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapyilton XGMA21)

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

Lot: -
Plan: -
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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GENERAL NOTES

A Issue	08-05-20 Date	ORIGINAL ISSUE Description		IQ DRN	M/C CHI

Designed:	IG
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Drafted:	IG
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	08/05/20
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Drawing No:	Rev. No:
5941 ENG EXTSEW 002	A



Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	-
Plan:	-
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

LEGEND

A	08-05-20				ORIGINAL ISSUE		IG	MG	
Issue	Date				Description		DRN	CHK	

Scale at A1: NTS

Designed:	IG
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Drafted:	IG
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Approved:	MG
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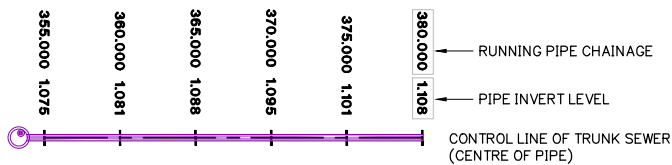
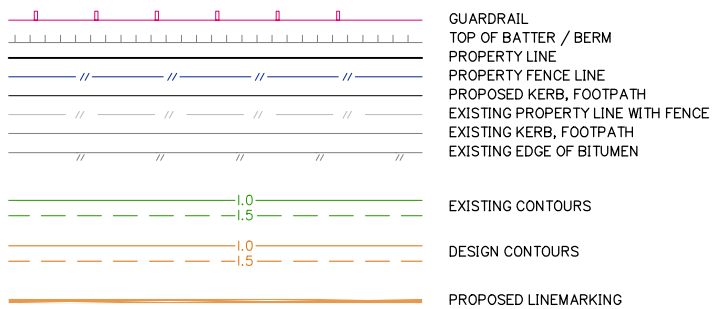
RPEQ:	16939
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Signed: 

Date:	08/05/20
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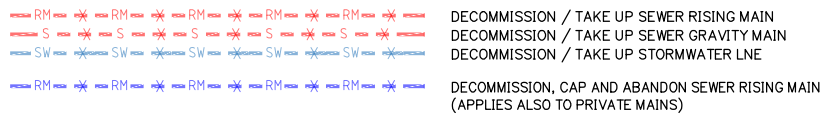
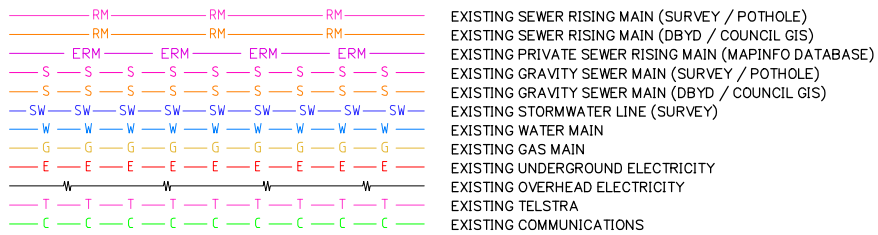
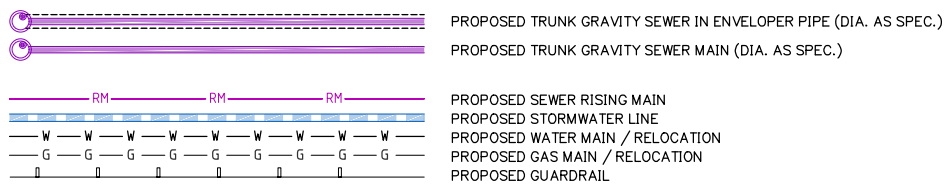
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5941 ENG EXTSEW 003	A

FEATURE LEGEND

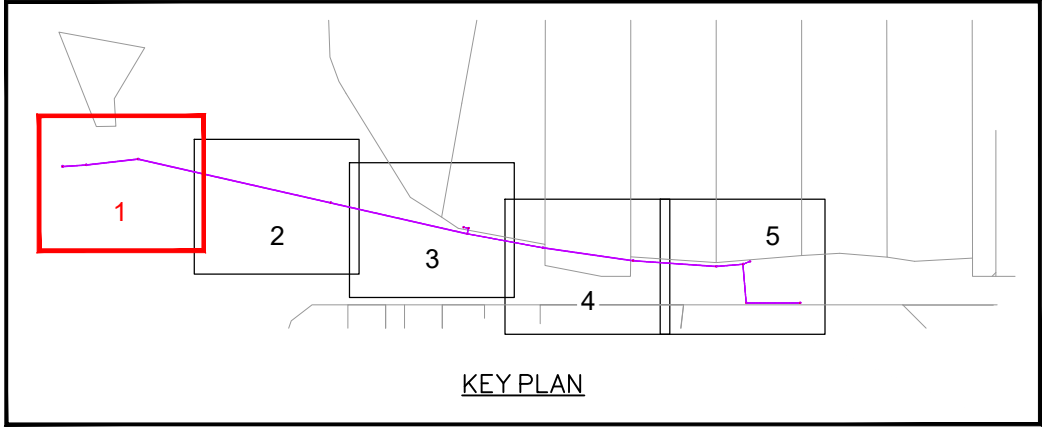


PIPE CHAINAGE KEY PLAN FOR DWG 600 SERIES PLANS

SERVICES LEGEND



LEGEND





Client:



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
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RPD:

Lot:	-
Plan:	-
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI:	-

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DRAWING TITLE

CONTOUR AND DETAIL PLAN
SHEET 3 OF 5

A	08-05-20	ORIGINAL ISSUE						IG	MG
Issue	Date	Description						DRN	CHK

Scale 1:250 - Lengths are in Metres.



Scale at A1:	1:250
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Designed:	IG
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Drafted:	IG
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Approved:	MG
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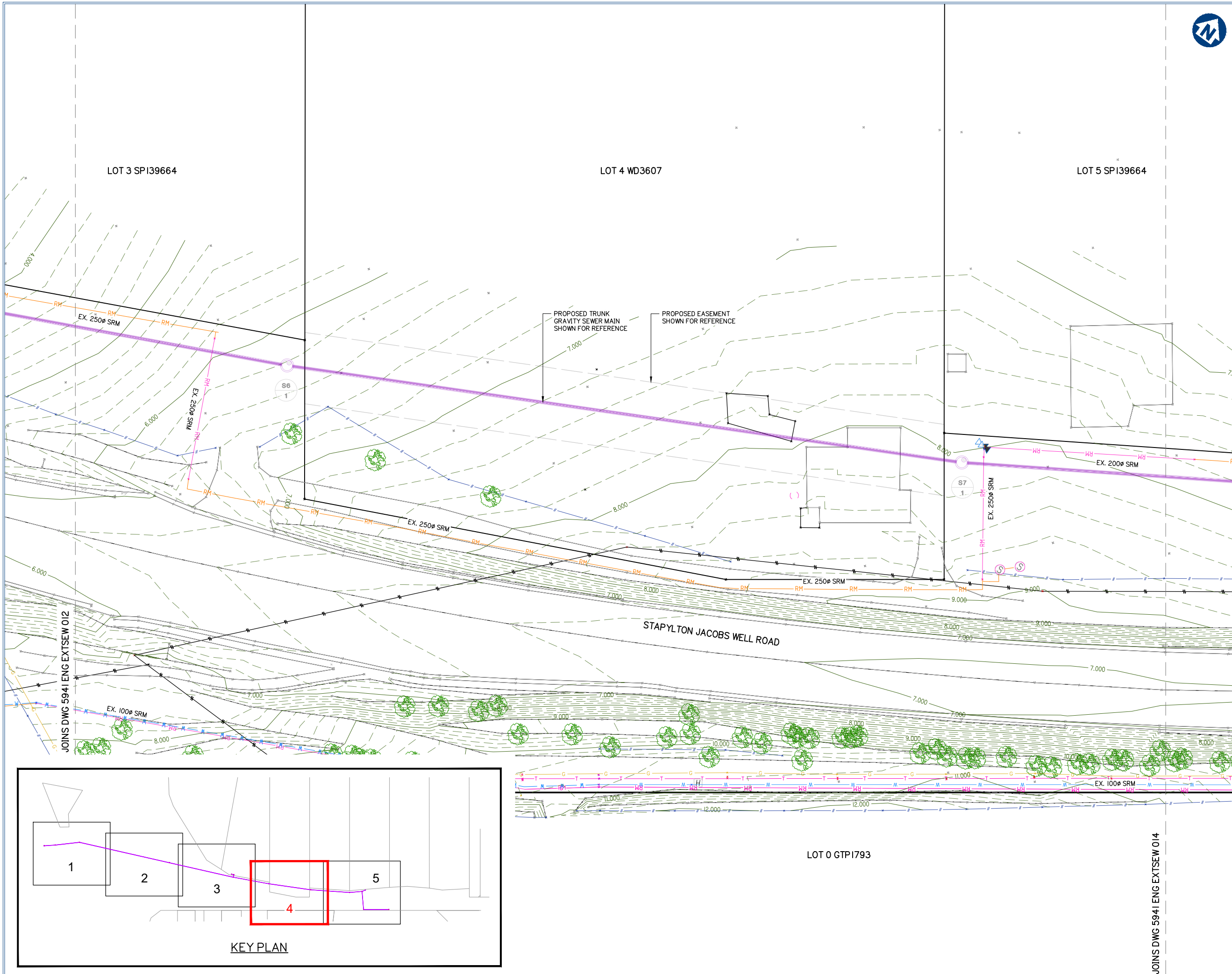
RPEQ:	169.3%
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Signed:	<i>M. H. H.</i>
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Date:	08/05
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Drawing No:
5941 ENG EXTSEW 012

Rev. No:
A



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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
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DRAWING TITLE

CONTOUR AND DETAIL PLAN
SHEET 4 OF 5

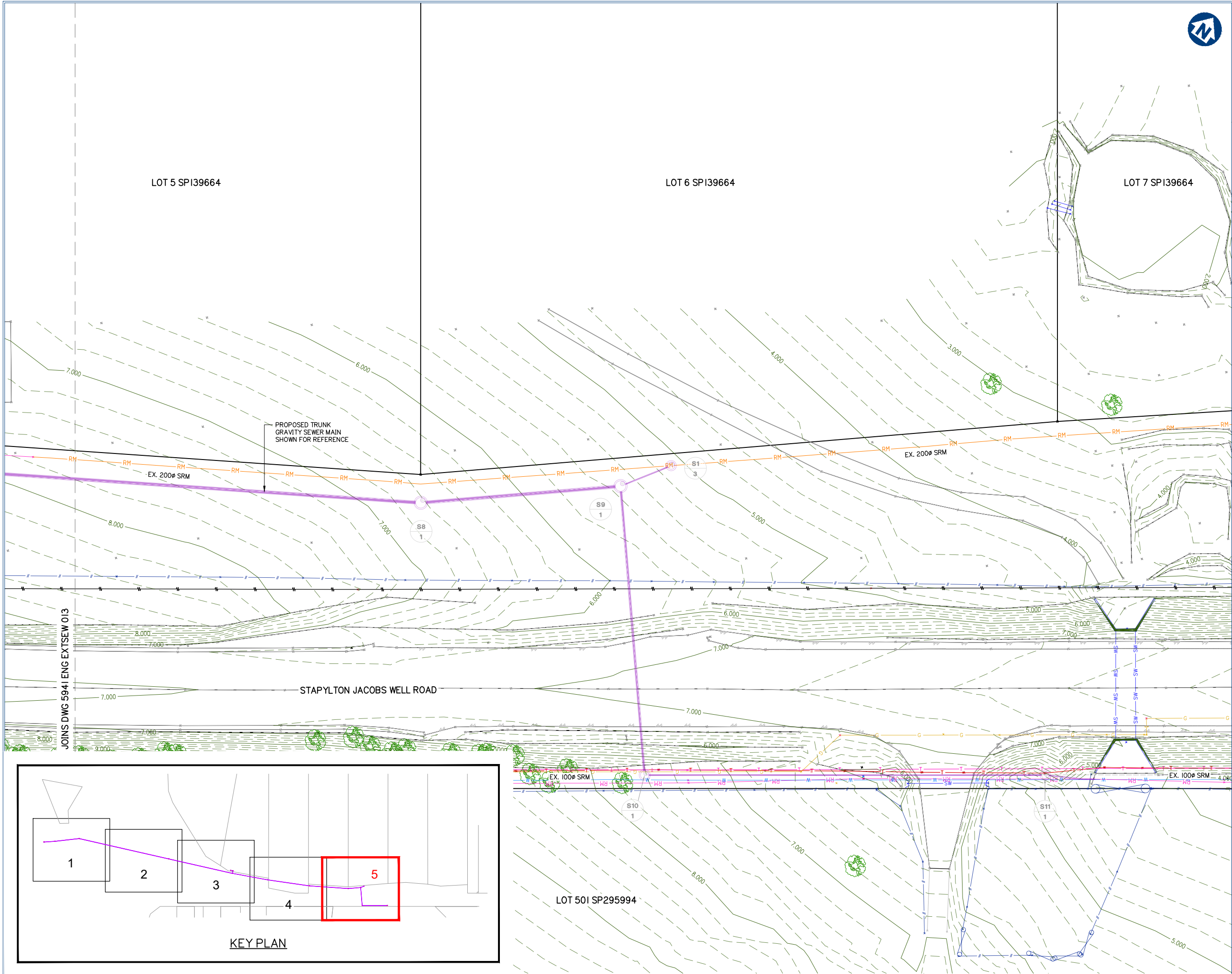
Issue	Date	Original Issue Description	IG DRN	MG CHK
A	08-05-20			

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Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
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CONTOUR AND DETAIL PLAN
SHEET 5 OF 5

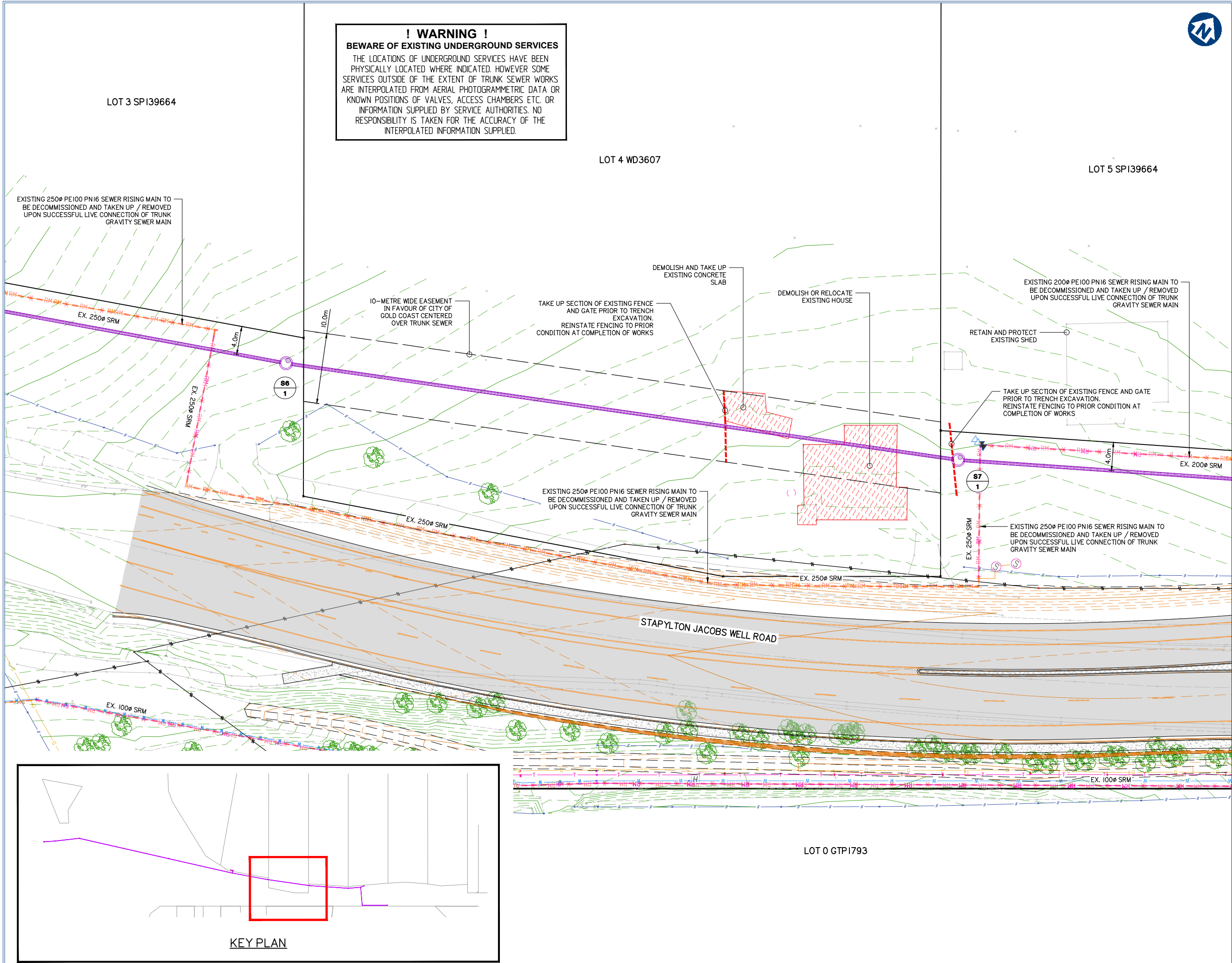
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A	08-05-20			

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DEMOLITION AND
PROTECTION PLAN

Issue	Date	Original Issue Description	IG DRN	MG CHK
A	08-05-20			

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Date:	08/05/20

Drawing No: 5941 ENG EXTSEW 020
Rev. No: A

DEMOLITION AND PROTECTION PLAN

MANHOLE COVERS AND SURROUNDS:
INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

YATALA PIES
LOT 1 SPI18784

! WARNING !
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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 1 OF 5

Issue	Date	Original Issue Description	IG	MD
A	08-05-20			

Scale 1:250 - Lengths are in Metres.



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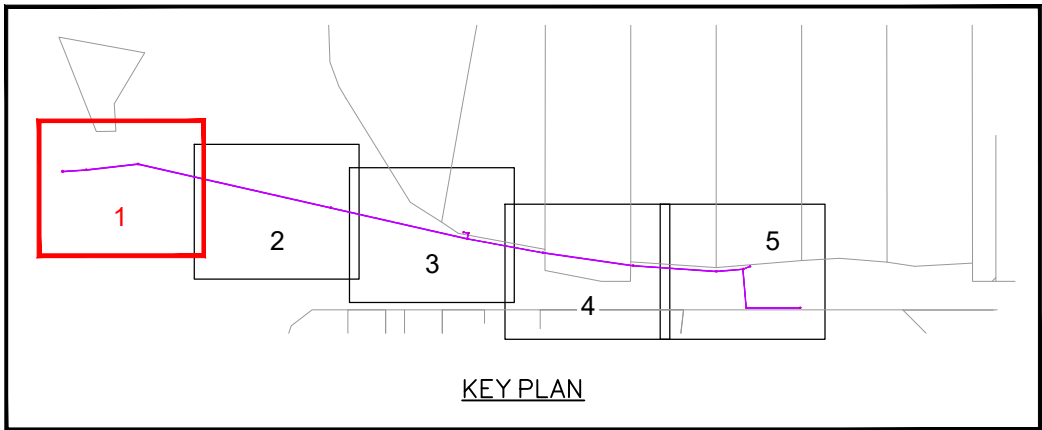
LIVE WORKS SCHEDULE

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	CONTRACTOR TO BUILD NEW MANHOLE S1/I OVER EXISTING 600mm DIA. DIOL GRAVITY SEWER MAIN. CAST-IN-SITU BASE FOR MANHOLE IS TO BE FORMED AROUND EXISTING GRAVITY MAIN AND PIPE CROWN TO REMAIN IN PLACE WHILST CONSTRUCTION OF NEW LINE 01 OCCURS.	DN560	S1/I	I800 P2	D	N/A	4.140	3.950	0.449	3.691m
1(B)	UPON COMPLETION OF NEW LINE 01 TESTING AND A SUCCESSFUL 'PRE LIVE' INSPECTION BEING HELD WITH GCWW THE CONTRACTOR IS TO REMOVE EXISTING 600mm DIA SEWER PIPE CROWN AND MAKE LIVE CONNECTION UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.									
2(A)	CONTRACTOR TO BUILD NEW MANHOLE S2/I AROUND EXISTING 225mm DIA. GRAVITY SEWER MAIN INCLUDING BENCHING FOR FUTURE 'X' DROP CONNECTION OF EXISTING SEWER MAIN. EXISTING GRAVITY MAIN TO REMAIN IN PLACE AND OPERATIONAL WHILST CONSTRUCTION OF NEW LINE 01 OCCURS.	DN560	S2/I	I500 P2	D	N/A	5.599	5.499	0.560	5.039m
2(B)	UPON COMPLETION OF NEW LINE 01 TESTING AND A SUCCESSFUL 'PRE LIVE' INSPECTION BEING HELD WITH GCWW THE CONTRACTOR IS TO PLUG UPSTREAM OF 225mm DIAMETER EXISTING LINE AND TEMPORARILY DIVERT FLOWS AROUND S2/I. CONTRACTOR IS TO REMOVE EXISTING 225mm DIA SEWER PIPE THROUGH S2/I, RENDER AND PATCH MANHOLE AND MAKE LIVE CONNECTION UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.									

NOTE:
1. CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
0.900	0.529
24.317	0.560
25.817	0.590
79.404	0.661
80.924	0.691

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
0.000	1504.477	6707.051	0.449
5.000	1508.349	6710.214	0.534
10.000	1512.222	6713.377	0.541
15.000	1516.094	6716.540	0.547
20.000	1519.967	6719.703	0.554
25.000	1523.839	6722.866	0.573
25.057	1523.883	6722.901	-
30.000	1527.542	6726.225	0.595
35.000	1531.243	6729.588	0.602
40.000	1534.943	6732.950	0.609
45.000	1538.644	6736.312	0.615
50.000	1542.345	6739.674	0.622
55.000	1546.046	6743.037	0.629
60.000	1549.746	6746.399	0.635
65.000	1553.447	6749.761	0.642
70.000	1557.148	6753.123	0.649
75.000	1560.849	6756.485	0.655
80.000	1564.549	6759.848	0.673
80.164	1564.671	6759.958	-
85.000	1569.125	6761.841	0.697
90.000	1573.730	6763.789	0.703
95.000	1578.335	6765.736	0.710
100.000	1582.941	6767.683	0.717
105.000	1587.546	6769.630	0.723
110.000	1592.151	6771.578	0.730
115.000	1596.756	6773.525	0.737
120.000	1601.361	6775.472	0.743
125.000	1605.967	6777.420	0.750
130.000	1610.572	6779.367	0.757
135.000	1615.177	6781.314	0.763
140.000	1619.782	6783.261	0.770
145.000	1624.388	6785.209	0.777



MANHOLE COVERS AND SURROUNDS:
INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

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TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
288.638	0.968
290.138	0.988



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EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

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SEWER LAYOUT PLAN
SHEET 2 OF 5

Issue		Date		Description		IG		MG	
A		08-05-20		ORIGINAL ISSUE		IG		MG	
						DRN		CHK	

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0 2 4 6 8 10 12 14 16 18 20

Scale at A1: 1:250

Designed: IG

Drafted: IG

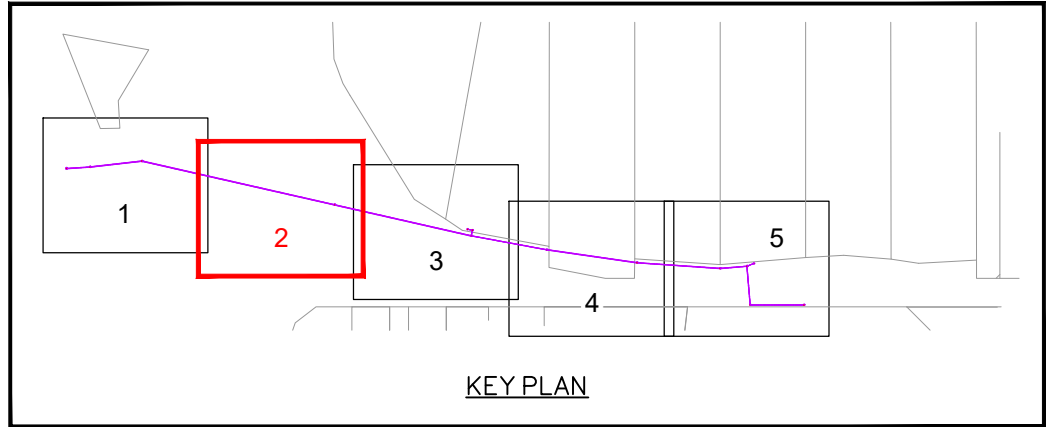
Approved: MG

RPEQ: 16939

Signed:

Date: 08/05/20

Drawing No: 5941 ENG EXTSEW 601
Rev. No: A



TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
145.000	1624.388	6785.209	0.777
150.000	1628.993	6787.156	0.783
155.000	1633.598	6789.103	0.790
160.000	1638.203	6791.051	0.797
165.000	1642.808	6792.998	0.803
170.000	1647.414	6794.945	0.810
175.000	1652.019	6796.892	0.817
180.000	1656.624	6798.840	0.823
185.000	1661.229	6800.787	0.830
190.000	1665.835	6802.734	0.837
195.000	1670.440	6804.681	0.843
200.000	1675.045	6806.629	0.850
205.000	1679.650	6808.576	0.857
210.000	1684.256	6810.523	0.863
215.000	1688.861	6812.471	0.870
220.000	1693.466	6814.418	0.877
225.000	1698.071	6816.365	0.883
230.000	1702.676	6818.312	0.890
235.000	1707.282	6820.260	0.897
240.000	1711.887	6822.207	0.903
245.000	1716.492	6824.154	0.910
250.000	1721.097	6826.101	0.917
255.000	1725.703	6828.049	0.923
260.000	1730.308	6829.996	0.930
265.000	1734.913	6831.943	0.937
270.000	1739.518	6833.891	0.943
275.000	1744.123	6835.838	0.950
280.000	1748.729	6837.785	0.957
285.000	1753.334	6839.732	0.963
289.378	1757.366	6841.437	-
290.000	1757.939	6841.680	0.986
295.000	1762.544	6843.627	0.995
300.000	1767.150	6845.574	1.001
305.000	1771.755	6847.522	1.008
310.000	1776.360	6849.469	1.015
315.000	1780.965	6851.416	1.021

MANHOLE COVERS AND SURROUNDS:

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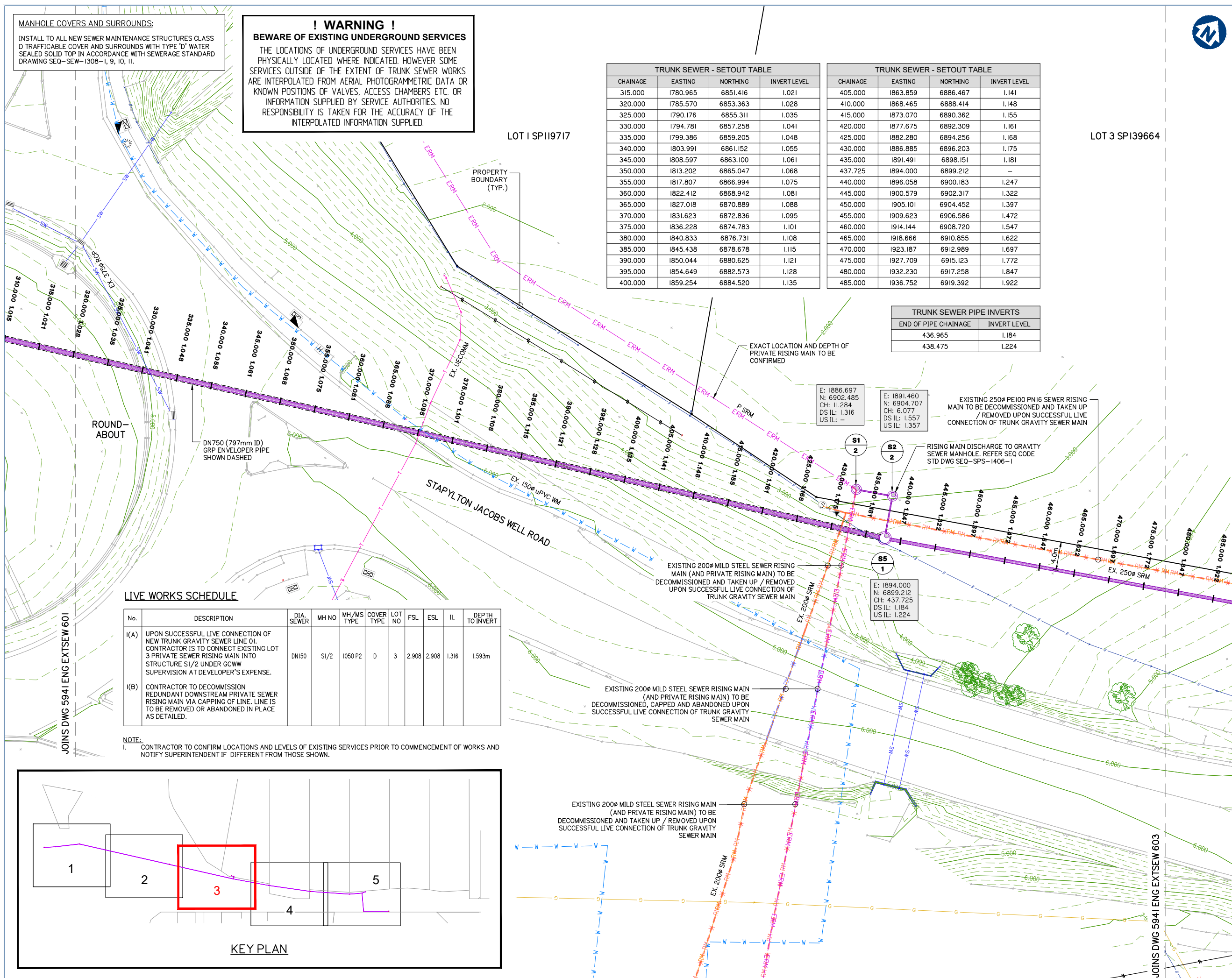
LOT 1 SP119717

LOT 3 SP139664

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
315.000	1780.965	6851.416	1.021
320.000	1785.570	6853.363	1.028
325.000	1790.176	6855.311	1.035
330.000	1794.781	6857.258	1.041
335.000	1799.386	6859.205	1.048
340.000	1803.991	6861.152	1.055
345.000	1808.597	6863.100	1.061
350.000	1813.202	6865.047	1.068
355.000	1817.807	6866.994	1.075
360.000	1822.412	6868.942	1.081
365.000	1827.018	6870.889	1.088
370.000	1831.623	6872.836	1.095
375.000	1836.228	6874.783	1.101
380.000	1840.833	6876.731	1.108
385.000	1845.438	6878.678	1.115
390.000	1850.044	6880.625	1.121
395.000	1854.649	6882.573	1.128
400.000	1859.254	6884.520	1.135

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
405.000	1863.859	6886.467	1.141
410.000	1868.465	6888.414	1.148
415.000	1873.070	6890.362	1.155
420.000	1877.675	6892.309	1.161
425.000	1882.280	6894.256	1.168
430.000	1886.885	6896.203	1.175
435.000	1891.491	6898.151	1.181
437.725	1894.000	6899.212	-
440.000	1896.058	6900.183	1.247
445.000	1900.579	6902.317	1.322
450.000	1905.101	6904.452	1.397
455.000	1909.623	6906.586	1.472
460.000	1914.144	6908.720	1.547
465.000	1918.666	6910.855	1.622
470.000	1923.187	6912.989	1.697
475.000	1927.709	6915.123	1.772
480.000	1932.230	6917.258	1.847
485.000	1936.752	6919.392	1.922

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
436.965	1.184
438.475	1.224

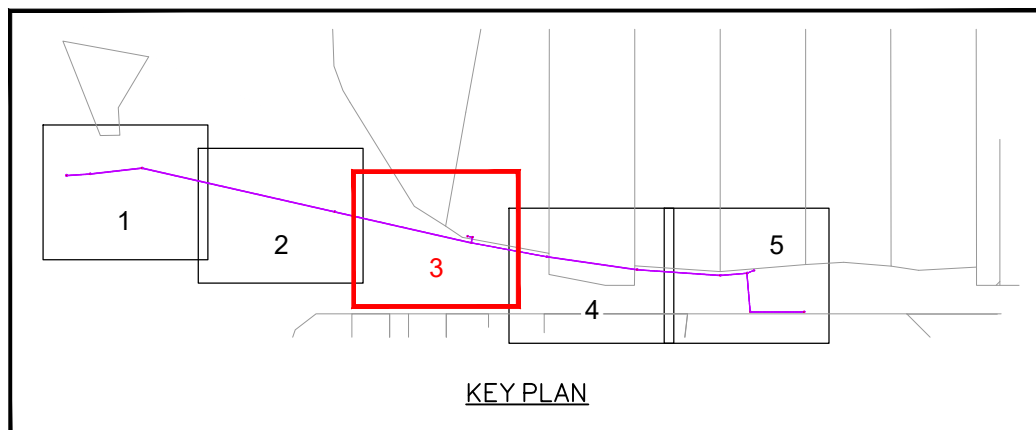


LIVE WORKS SCHEDULE

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
I(A)	UPON SUCCESSFUL LIVE CONNECTION OF NEW TRUNK GRAVITY SEWER LINE OI, CONTRACTOR IS TO CONNECT EXISTING LOT 3 PRIVATE SEWER RISING MAIN INTO STRUCTURE S1/2 UNDER GCWW SUPERVISION AT DEVELOPER'S EXPENSE.	DN150	S1/2	1050 P2	D	3	2.908	2.908	1.316	1.593m
I(B)	CONTRACTOR TO DECOMMISSION REDUNDANT DOWNSTREAM PRIVATE SEWER RISING MAIN VIA CAPPING OF LINE. LINE IS TO BE REMOVED OR ABANDONED IN PLACE AS DETAILED.									

NOTE:

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SEWER LAYOUT PLAN - SHEET 3 OF 5



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SHEET 3 OF 5

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Drawing No: 5941 ENG EXTSEW 602 Rev. No: A

MANHOLE COVERS AND SURROUNDS:

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LOT 3 SPI39664

LOT 4 WD3607

LOT 5 SPI39664

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
480.000	1932.230	6917.258	1.847
485.000	1936.752	6919.392	1.922
490.000	1941.274	6921.526	1.996
495.000	1945.795	6923.661	2.071
500.000	1950.317	6925.795	2.146
505.000	1954.838	6927.929	2.221
510.000	1959.360	6930.064	2.296
515.000	1963.881	6932.198	2.371
518.863	1967.374	6933.847	-
520.000	1968.383	6934.373	2.448
525.000	1972.817	6936.683	2.456
530.000	1977.252	6938.993	2.463
535.000	1981.686	6941.303	2.470
540.000	1986.120	6943.614	2.477
545.000	1990.554	6945.924	2.484
550.000	1994.989	6948.234	2.491
555.000	1999.423	6950.544	2.499
560.000	2003.857	6952.855	2.506

TRUNK SEWER - SETOUT TABLE			
CHAINAGE	EASTING	NORTHING	INVERT LEVEL
565.000	2008.291	6955.165	2.513
570.000	2012.726	6957.475	2.520
575.000	2017.160	6959.786	2.527
580.000	2021.594	6962.096	2.534
585.000	2026.028	6964.406	2.542
590.000	2030.463	6966.716	2.549
595.000	2034.897	6969.027	2.556
600.000	2039.331	6971.337	2.563
605.000	2043.765	6973.647	2.570
610.000	2048.200	6975.958	2.577
615.000	2052.634	6978.268	2.584
615.359	2052.952	6978.434	-
620.000	2056.899	6980.876	2.620
625.000	2061.150	6983.508	2.627
630.000	2065.401	6986.139	2.634
635.000	2069.653	6988.771	2.641
640.000	2073.904	6991.402	2.648
645.000	2078.156	6994.034	2.655
650.000	2082.407	6996.666	2.663

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
518.103	2.418
519.623	2.448
614.599	2.584
616.109	2.614



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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot: -
Plan: -
Local Authority: CITY OF GOLD COAST COUNCIL
Level Datum: AHD
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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 4 OF 5

A	08-05-20	ORIGINAL ISSUE	IG	MG
Issue	Date	Description	DRN	CHK

Scale 1:250 - Lengths are in Metres.
0 2 4 6 8 10 12 14 16 18 20

Scale at A1: 1:250

Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	08/05/20

Drawing No: 5941 ENG EXTSEW 603 Rev. No: A

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

EXISTING 200Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

RETAIN AND PROTECT EXISTING SHED

E: 1967.374
N: 6933.847
CH: 518.863
DS IL: 2.418
US IL: 2.448

PROPERTY BOUNDARY (TYP.)

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

EXISTING OVERHEAD ELECTRICAL TO BE RELOCATED BY OTHERS

E: 2052.952
N: 6978.434
CH: 615.359
DS IL: 2.584
US IL: 2.614

EXISTING 250Ø PE100 PN16 SEWER RISING MAIN TO BE DECOMMISSIONED AND TAKEN UP / REMOVED UPON SUCCESSFUL LIVE CONNECTION OF TRUNK GRAVITY SEWER MAIN

STAPYLTON JACOBS WELL ROAD

JOINS DWG 5941 ENG EXTSEW 602

JOINS DWG 5941 ENG EXTSEW 604

LOT 0 GTP1793

! WARNING !
BEWARE OF EXISTING UNDERGROUND SERVICES
THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN PHYSICALLY LOCATED WHERE INDICATED. HOWEVER SOME SERVICES OUTSIDE OF THE EXTENT OF TRUNK SEWER WORKS ARE INTERPOLATED FROM AERIAL PHOTOGRAMMETRIC DATA OR KNOWN POSITIONS OF VALVES, ACCESS CHAMBERS ETC. OR INFORMATION SUPPLIED BY SERVICE AUTHORITIES. NO RESPONSIBILITY IS TAKEN FOR THE ACCURACY OF THE INTERPOLATED INFORMATION SUPPLIED.

KEY PLAN

SEWER LAYOUT PLAN - SHEET 4 OF 5

INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS
D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER
SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD
DRAWING SEQ-SEW-1308-1, 9, 10, 11.

TRUNK SEWER PIPE INVERTS	
END OF PIPE CHAINAGE	INVERT LEVEL
702.834	2.738
704.354	2.768
731.314	2.807
732.834	2.982
772.640	3.082
773.860	3.235
829.642	3.421

[illegible]

NOTE:
I. CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.

CHAINAGE	EASTING	NORTHING	INVERT LEVEL
645.000	2078.156	6994.034	2.655
650.000	2082.407	6996.666	2.663
655.000	2086.659	6999.297	2.670
660.000	2090.910	7001.929	2.677
665.000	2095.162	7004.560	2.684
670.000	2099.413	7007.192	2.691
675.000	2103.665	7009.823	2.698
680.000	2107.916	7012.455	2.706
685.000	2112.168	7015.086	2.713
690.000	2116.419	7017.718	2.720
695.000	2120.671	7020.349	2.727
700.000	2124.922	7022.981	2.734
703.594	2127.978	7024.873	—
705.000	2129.048	7025.785	2.769
710.000	2132.852	7029.030	2.776
715.000	2136.656	7032.274	2.784
720.000	2140.460	7035.519	2.791
725.000	2144.264	7038.764	2.798
730.000	2148.069	7042.009	2.805
732.074	2149.646	7043.354	—
735.000	2151.543	7041.125	2.988

CHAINAGE	EASTING	NORTHING	INVERT LEVEL
740.000	2154.788	7037.322	3.000
745.000	2158.033	7033.518	3.013
750.000	2161.278	7029.714	3.025
755.000	2164.523	7025.910	3.038
760.000	2167.768	7022.106	3.050
765.000	2171.013	7018.302	3.063
770.000	2174.258	7014.498	3.075
773.250	2176.367	7012.026	-
775.000	2177.789	7013.047	3.239
780.000	2181.849	7015.965	3.256
785.000	2185.910	7018.883	3.272
790.000	2189.970	7021.800	3.289
795.000	2194.031	7024.718	3.306
800.000	2198.091	7027.635	3.322
805.000	2202.152	7030.553	3.339
810.000	2206.212	7033.470	3.356
815.000	2210.273	7036.388	3.372
820.000	2214.333	7039.306	3.389
825.000	2218.394	7042.223	3.406
830.000	2222.454	7045.141	3.421
830.157	2222.582	7045.233	3.421

! WARNING !
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THE LOCATIONS OF UNDERGROUND SERVICES HAVE BEEN
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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
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ROAD, STAPYLTON QLD 4207

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Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 5 OF 5

A	09-05-20	ORIGINAL ISSUE	IG	MO	
Issue	Date	Description	DRN	CHK	

Scale 1:250 - Lengths are in Metres.

Scale at A1: 1:250

Designed:	IG
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Drafted:	IG
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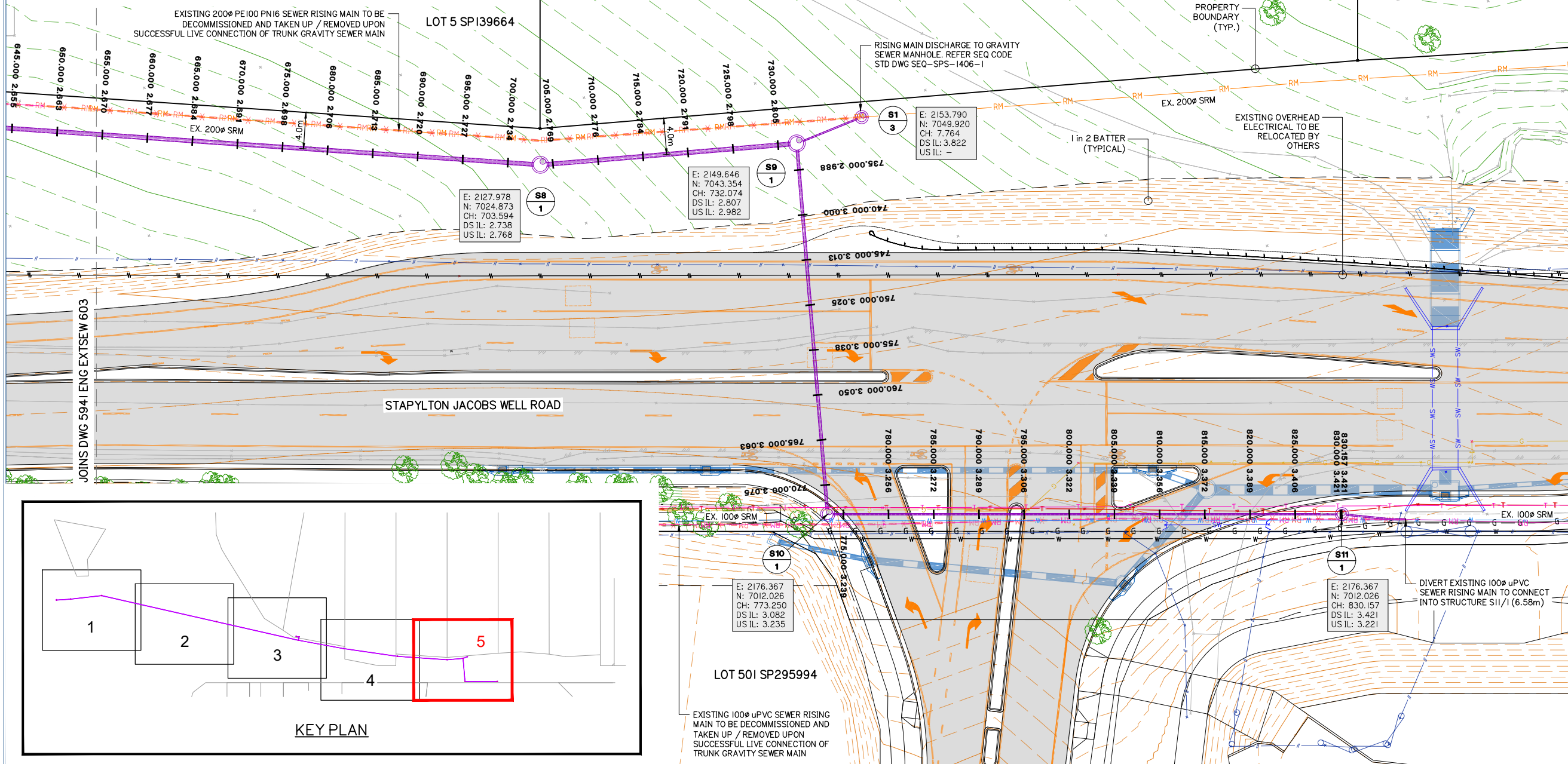
Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	08/05/20
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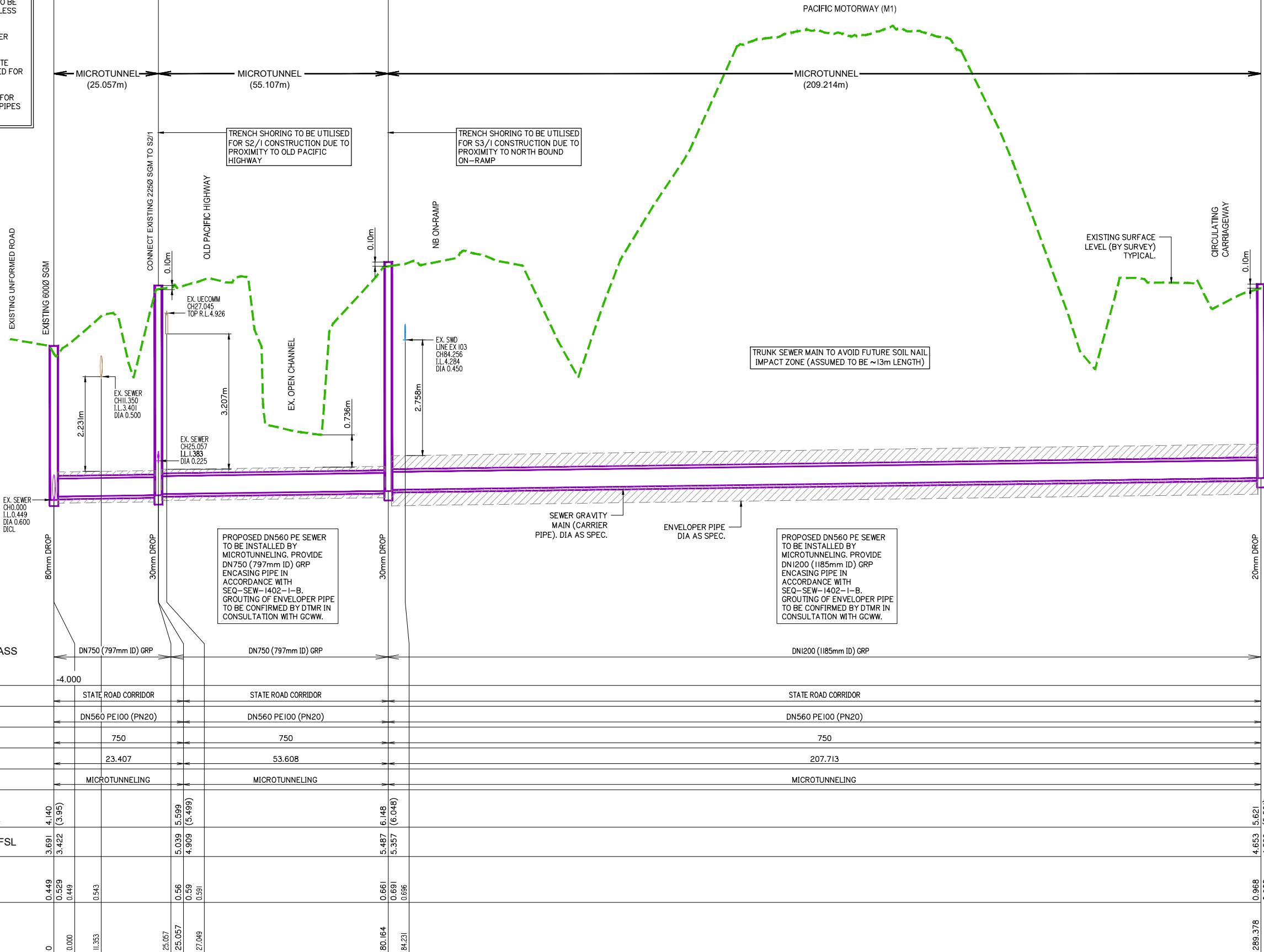
Drawing No:	Rev. No:
5941 ENG EXTSEW 604	A



MAINTENANCE HOLE / SHAFT NAME	S1/1	S2/1	S3/1	S4/1
MH / MS COVER TYPE	D	D	D	D
MH / MS TYPE	MH1800 (P2)	MH1500 (P2)	MH1500 (P2)	MH1500 (P2)
DS MH / MS DROP TYPE	V	V	V	V
LINE DEFLECTION & BRANCHES	EX. 600	EX. 300	EX. 180	I
PE LINING CORROSION PROTECTION?	Y	Y	Y	Y

MANHOLE COVERS AND SURROUNDS:
INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

- NOTES:
- PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
 - ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
 - PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
 - BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE



ENVELOPER PIPE SIZE (mm), CLASS	DN750 (797mm ID) GRP		DN750 (797mm ID) GRP		DN1200 (1185mm ID) GRP	
DATUM RL	-4.000					
PROPERTY DESCRIPTION	STATE ROAD CORRIDOR		STATE ROAD CORRIDOR		STATE ROAD CORRIDOR	
PIPE SIZE (mm), CLASS	DN560 PE100 (PN20)		DN560 PE100 (PN20)		DN560 PE100 (PN20)	
GRADE (1 IN X)	750		750		750	
PIPE LENGTH (END TO END)	23.407		53.608		207.713	
EMBEDMENT TYPE	MICROTUNNELING		MICROTUNNELING		MICROTUNNELING	
FINISHED (& EXISTING) SURFACE LEVEL	4.140 (3.95)		5.599 (5.499)	6.148 (6.048)	5.621 (5.521)	
DEPTH OF PIPE INVERT BELOW FSL	3.691 3.422		5.039 4.909	5.487 5.357	4.653 4.533	
PIPE INVERT LEVEL	0.449 0.529 0.449	0.543	0.56 0.59 0.591	0.661 0.691 0.696	0.968 0.968	
CHAINAGE	0 0.000 11.353 25.057 25.057 27.049			80.164 84.231	289.378	

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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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RPD:

Lot: -
Plan: -
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

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DRAWING TITLE

SEWER LONGITUDINAL
SECTIONS
SHEET 1 OF 4

Issue	Date	Original Issue Description	IG DRN	MO. CHK
A	08-05-20			

Scale 1:500 - Lengths are in Metres.
0 5 10 15 20 25 30 35 40

Scale 1:50 - Lengths are in Metres.
0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0

Scale at A1: 1:500 (H) 1:50 (V)

Designed: IG

Drafted: IG

Approved: MG

RPEQ: 16939

Signed:

Date: 08/05/20

Drawing No: 5941 ENG EXTSEW 610 Rev. No: A

S4/1

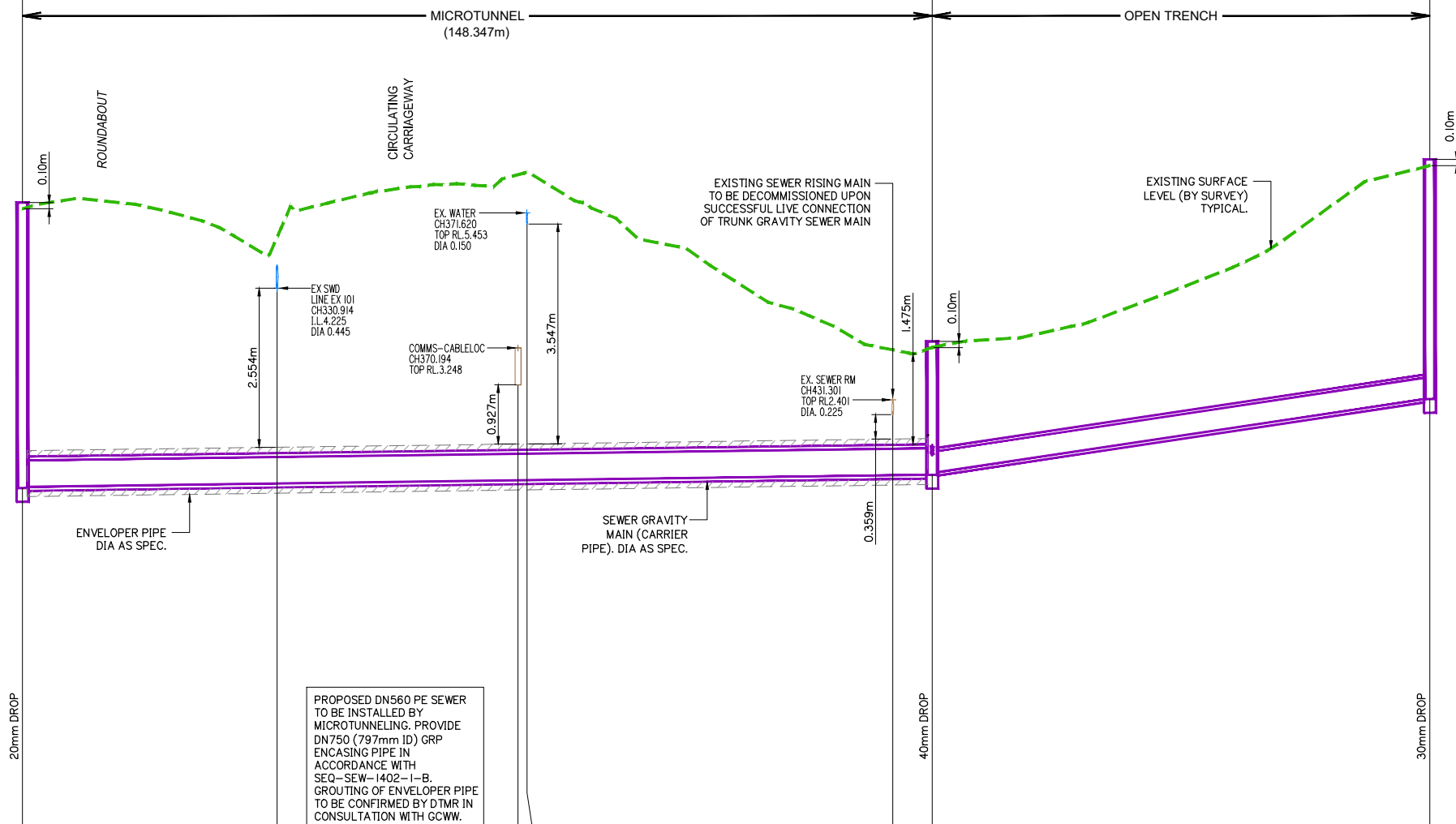
INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-I, 9, 10, 11.

D	
1500	(P2)
V	
I	
Y	

S5/1

S6/1

1. PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE. 2. ALL PIPES TO BE INSTALLED WITH TRACER WIRE. 3. PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES. 4. BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
--



289.378	0.968	4.653	5.621					-6.0
	0.988	4.533	(5.521)					

1

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Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Lot:	-
Plan:	-
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RI :	-

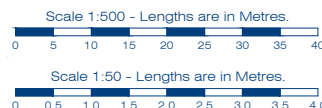
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SEWER LONGITUDINAL
SECTIONS
SHEET 2 OF 4

A	08-05-20	ORIGINAL ISSUE						IG	MG
Issue	Date	Description						DRN	CHK



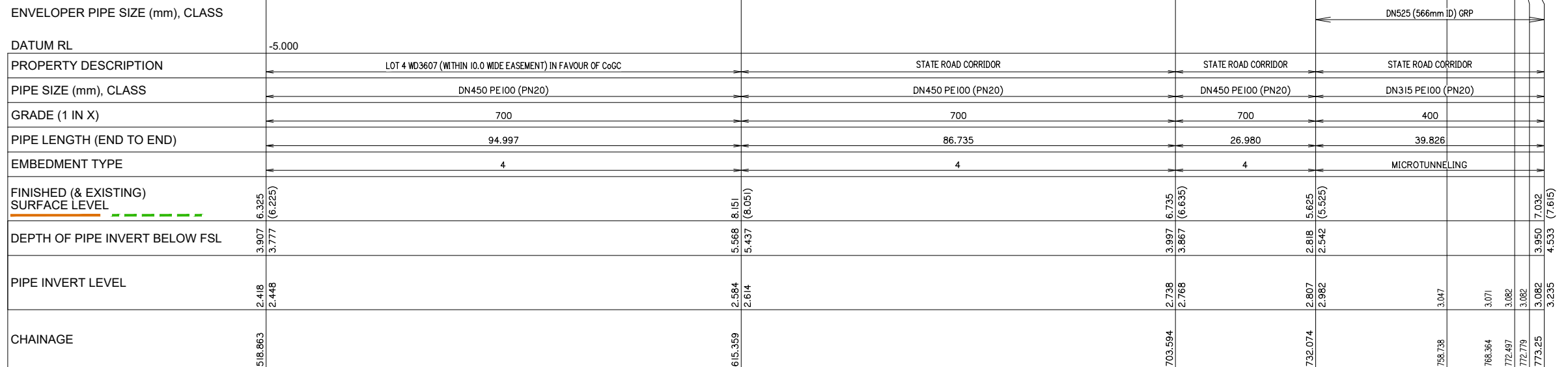
Scale at A1: 1:500 (H) 1:50 (V)

Designed:	IG
Drafted:	IG
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RPEQ:	16939
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5941 ENG EXTSEW 611	A

NOTES:

1. PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2. ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
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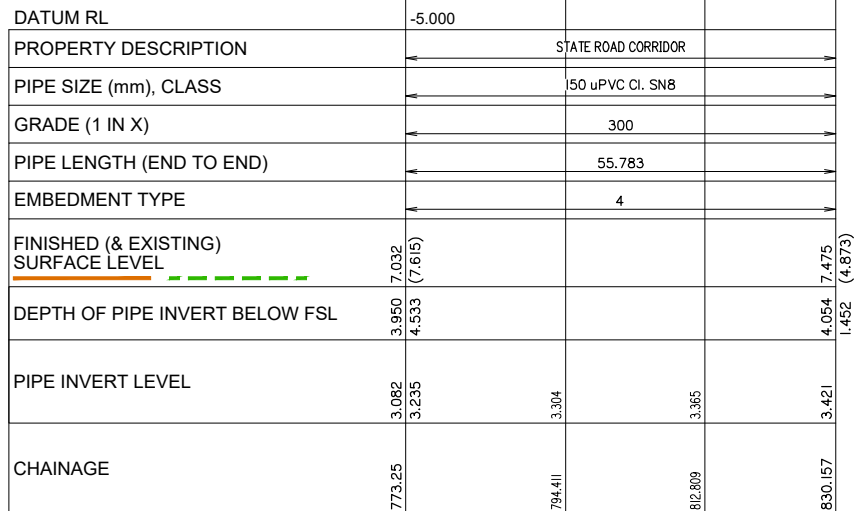


C:\Users\jgrievs\Desktop\EXTERNAL TRUNK SEWER\CURRENT\5941 ENG EXTSEW 610.dwg

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SEWER LONGITUDINAL SECTIONS SHEET 3 OF 4						
A Issue	08-05-20 Date	ORIGINAL ISSUE Description			IG DRN	MG CHK
Scale 1:500 - Lengths are in Metres. 0 5 10 15 20 25 30 35 40 Scale 1:50 - Lengths are in Metres. 0 0.5 1.0 1.5 2.0 2.5 3.0 3.5 4.0						
Scale at A1:		1:500 (H) 1:50 (V)				
Designed:		IG				
Drafted:		IG				
Approved:		MG				
RPEQ:		16939				
Signed:						
Date:		08/05/20				
Drawing No:		Rev. No:				
5941 ENG EXTSEW 612		A				

NOTES:

1. PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2. ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3. PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
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1



INSTALL TO ALL NEW SEWER MAINTENANCE STRUCTURES CLASS
D TRAFFICABLE COVER AND SURROUNDS WITH TYPE 'D' WATER
SEALED SOLID TOP IN ACCORDANCE WITH SEWERAGE STANDARD
DRAWING SEQ-SEW-1308-1, 9, 10, 11.



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RL:	-

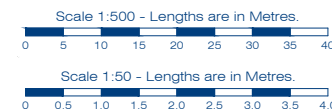
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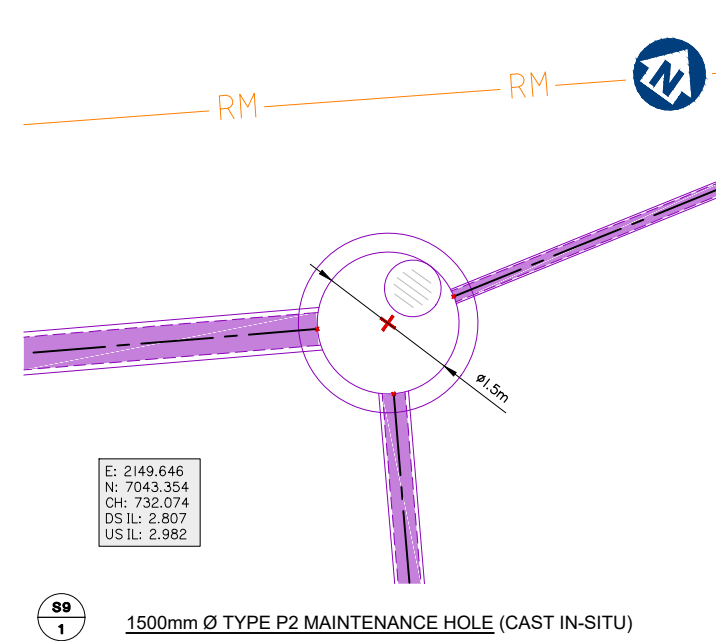
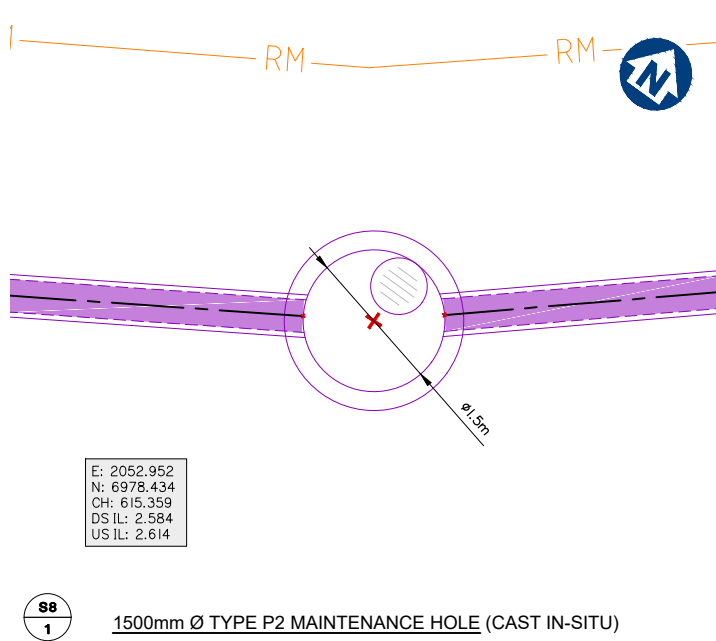
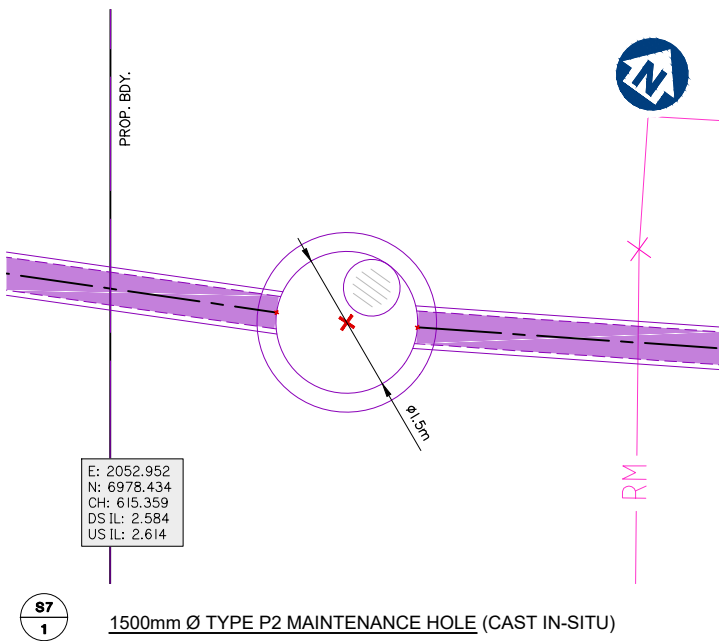
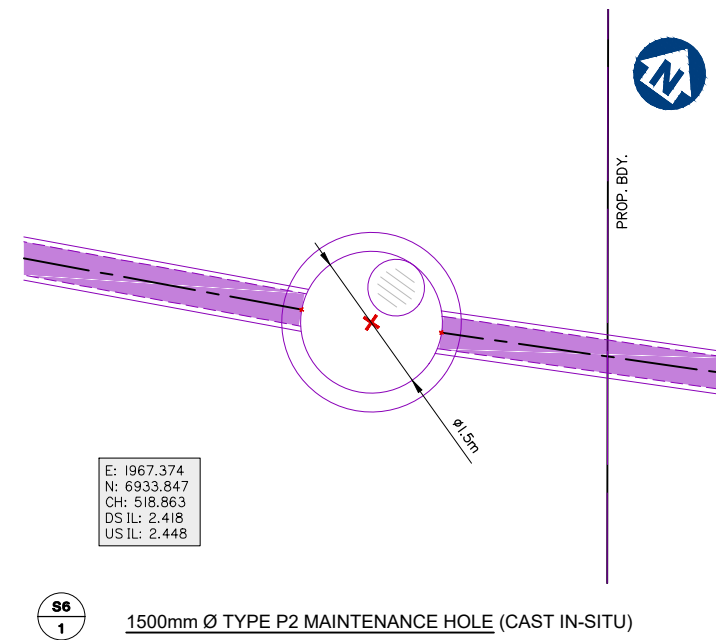
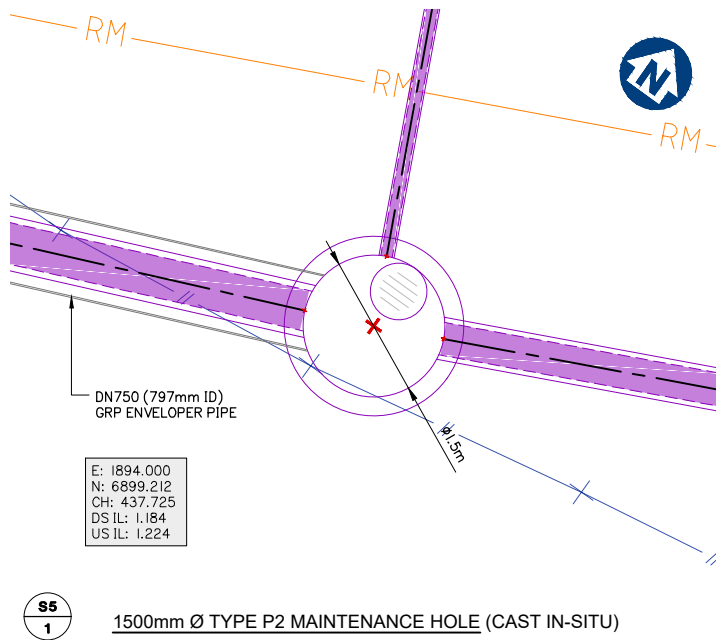
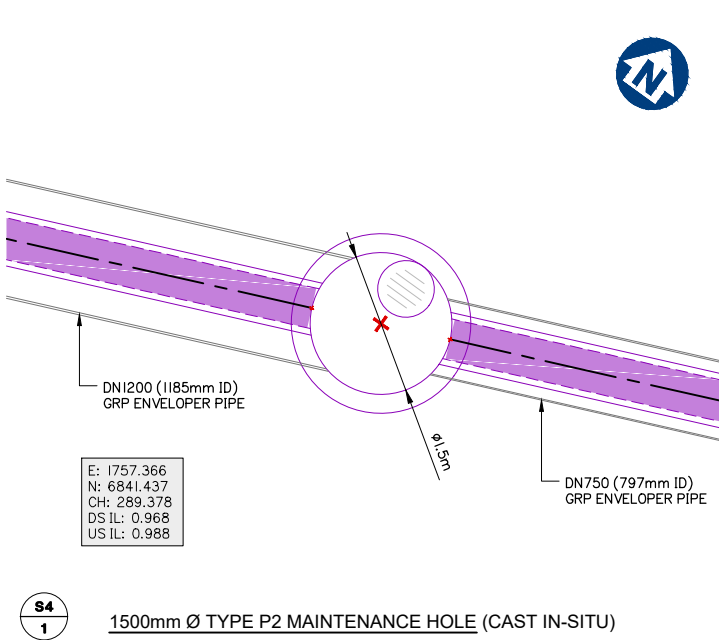
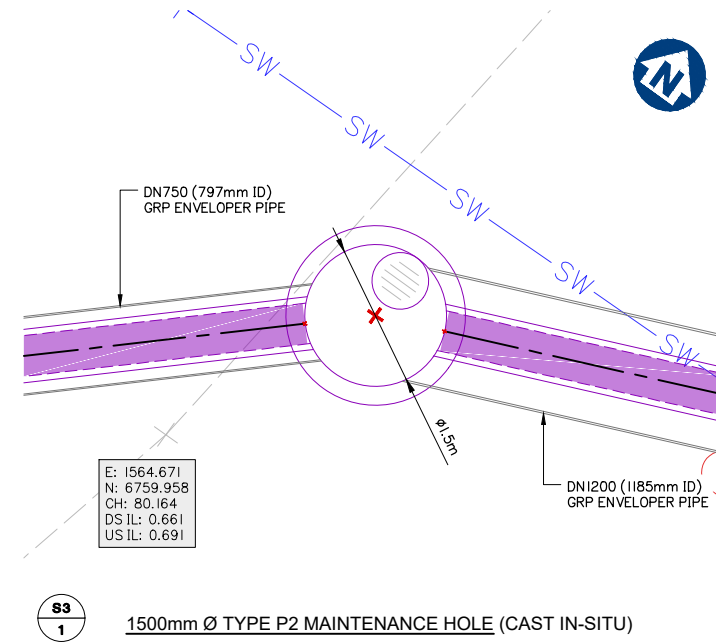
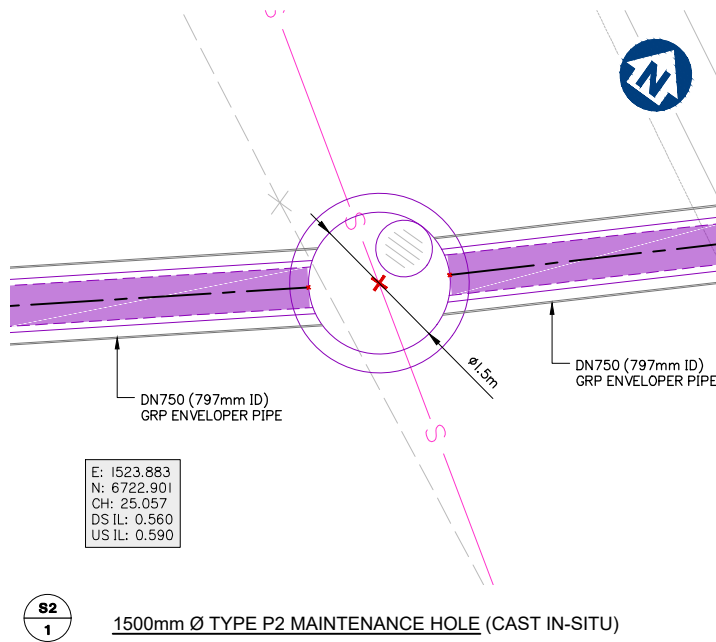
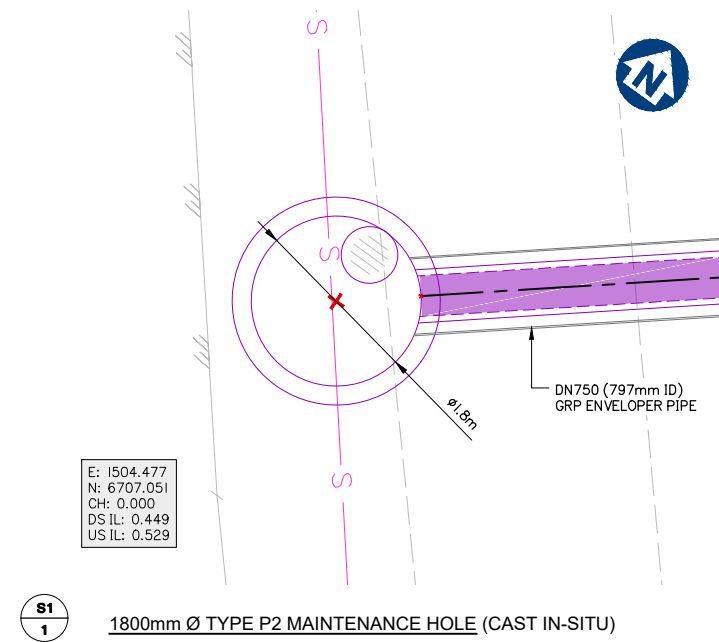
SEWER LONGITUDINAL
SECTIONS
SHEET 4 OF 4

A	08-05-20	ORIGINAL ISSUE	IG	MG
Issue	Date	Description	DRN	CHK



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Drafted:	IG
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Signed:	
Date:	08/05/20

Drawing No:	Rev. No:
5941 ENG EXTSEW 613	A



Client:



Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
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ROAD, STAPYLTON QLD 4207

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Plan: -
Local Authority: CITY OF GOLD COAST
COUNCIL
Level Datum: AHD
Meridian: -
Contour Interval: -
PSM: -
RL: -

ISSUED FOR APPROVAL
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

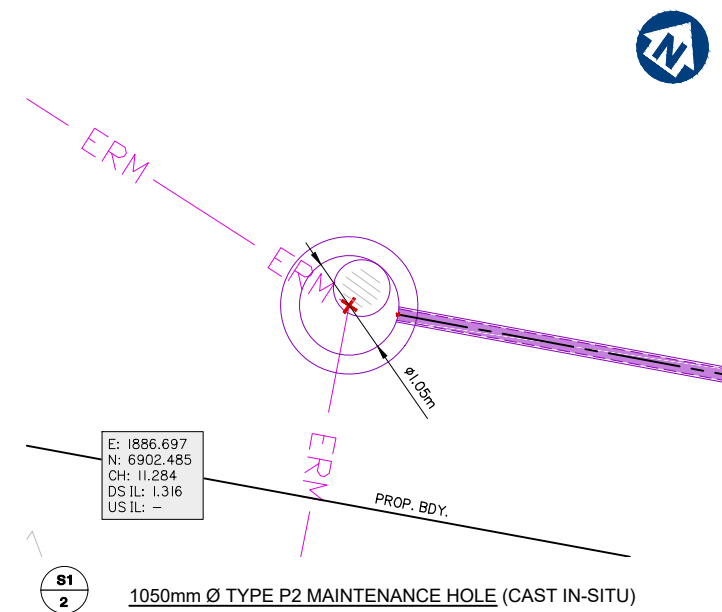
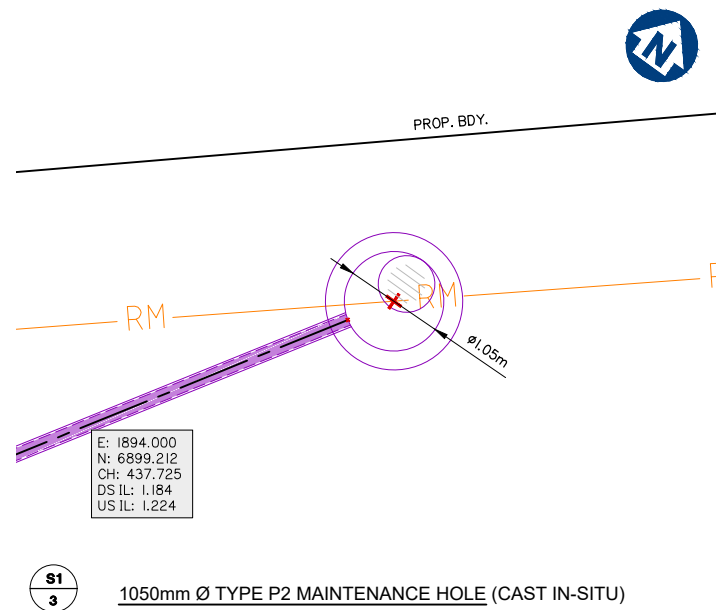
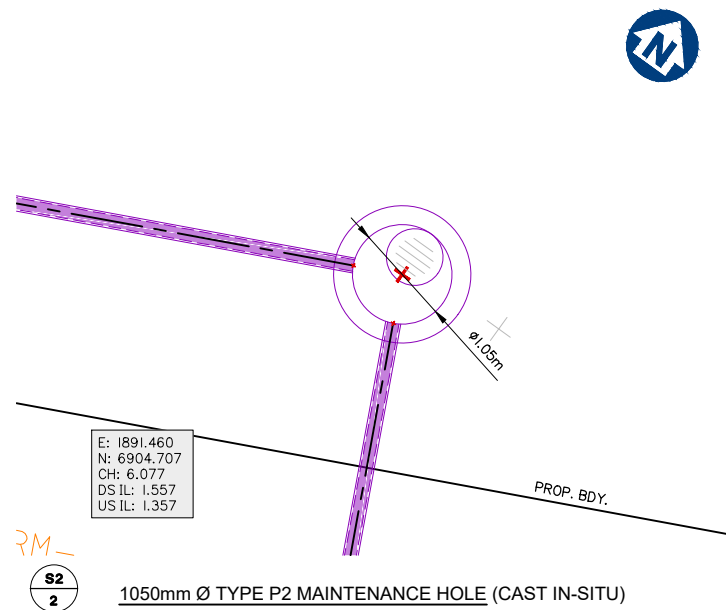
SEWER STRUCTURE DETAILS
SHEET 1 OF 2

Issue	Date	Description	IG	MD
A	08-05-20	ORIGINAL ISSUE	IG	MD

Scale 1:40 - Lengths are in Metres.
0 0.5 1.0 1.5 2.0 2.5 3.0

Scale at A1:	1:40
Designed:	IG
Drafted:	IG
Approved:	MG
RPEQ:	16939
Signed:	
Date:	08/05/20

Drawing No: 5941 ENG EXTSEW 650 Rev. No: A



FRASERS PROPERTY
(AUSTRALIA) PTY. LTD.

Project: VANTAGE YATALA
EXTERNAL TRUNK GRAVITY SEWER
(City of Gold Coast: Stapylton XGMA21)

Site Address:
STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO
BE PRINTED IN COLOUR

RPD:

Lot:	-
Plan:	-
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

SEWER STRUCTURE DETAILS
SHEET 2 OF 2

A	09-05-20	ORIGINAL ISSUE	IG	MO	
Issue	Date	Description	DRN	CHK	

Scale 1:40 - Lengths are in Metres.

Scale at A1:	1:40
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Designed:	IC
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Drafted:	IC
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Approved:	M
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RPEQ:	16939
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Signed:	
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Date:	08/05/20
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Drawing No:	Rev. No:
5941 ENG EXTSEW 651	A