OPERATIONAL WORKS APPLICATION FOR TRUNK SEWER INFRASTRUCTURE

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CoGC STAPYLTON XGMA10 & 11 GRAVITY SEWER

VANTAGE YATALA

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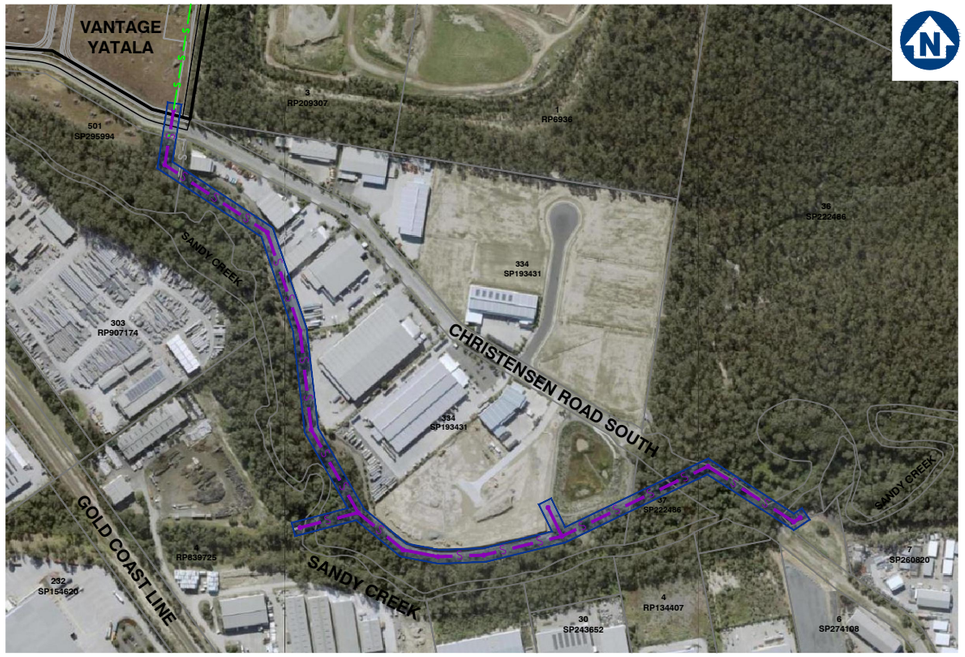
CLIENT / APPLICANT:

FRASERS PROPERTY

FPI QUEENSLAND PTY. LTD.

SITE ADDRESS

LOT 501 ON SP295994 &
LOT 334 ON SP193431 &
LOT 4 on RP839725



LOCALITY PLAN
SCALE 1: 4000 (A1)

DWG No. 5941 ENG SNA2 001 – REV G

OCTOBER 2023

GENERAL NOTES

1. 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 & 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.

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.

8. DAMS AND PONDS
WHERE POSSIBLE, WATER FROM DAMS AND PONDS SHALL BE MAINTAINED AND UTILISED FOR CONSTRUCTION PURPOSES AND DUST SUPPRESSION. DAMS AND PONDS NOT TO BE RETAINED SHALL BE DEWATERED, CLEARED OF ANY FOREIGN MATTER AND ORGANIC MATERIAL WITH THIS MATERIAL TO BE REMOVED OFF SITE.

9. RETAINING STRUCTURES
THE DESIGN AND STRUCTURAL CERTIFICATION OF RETAINING STRUCTURES SHALL BE UNDERTAKEN BY THE CONTRACTOR'S STRUCTURAL ENGINEER (RPEQ) IN CONSULTATION WITH THE PROJECT'S CIVIL ENGINEER AND LANDSCAPE CONSULTANT. THE CONTRACTOR IS RESPONSIBLE FOR THE SUBMISSION AND APPROVAL COORDINATION OF THE ASSOCIATED DRAWINGS AND CERTIFICATION TO CoGC. A COPY OF THIS SUBMISSION IS TO BE PROVIDED TO THE SUPERINTENDENT.

10. TOPSOIL REPLACEMENT
ALL BATTERS AND ALLOTMENT CUT & FILL AREAS SHALL BE TOP SOILED FROM ONSITE STOCKPILES. IF DIRECTED BY THE SUPERINTENDENT THE TOPSOIL SHALL BE SCREENED PRIOR TO PLACING. THE CONTRACTOR SHALL ALLOW IN THEIR RATE FOR SCREENING AND THE DISPOSAL OF REJECT MATERIAL TO TIP OFFSITE INCLUDING ALL FEES. THE CONTRACTOR MUST ENSURE THAT THE STRIPPING SHALL BE UNDERTAKEN IN SUCH A MANNER AS TO AVOID CONTAMINATION BY OVER CUTTING. IF TOPSOIL IS CONTAMINATED BY OVER CUTTING AND DETERMINED NOT SUITABLE FOR REUSE BY THE SUPERINTENDENT, THE CONTRACTOR SHALL BEAR THE COST OF REMOVAL FROM SITE OF ALL CONTAMINATED TOPSOIL AND THE COST TO SUPPLY AND IMPORT SUITABLE TOPSOIL FOR RE-SPREADING.

11. GRASSING / SEEDING
ALL CUT & FILL AREAS AND DISTURBED AREAS SHALL BE GRASSED OR SEEDED TO THE SATISFACTION OF THE SUPERINTENDENT.

12. STOCKPILES
ALL MATERIAL/SPOIL ARISING FROM WORKS ON SITE SHALL BE COMPACTED TO AN APPROPRIATE STANDARD WITHIN THE FILL AREAS OF FUTURE STAGES AS NOMINATED BY THE SUPERINTENDENT. THE CONTRACTOR IS NOT TO CREATE STOCKPILES OF SURPLUS MATERIALS UNLESS WRITTEN AUTHORIZATION IS RECEIVED FROM THE SUPERINTENDENT.

SEDIMENT AND EROSION CONTROL

1. THE OBJECTIVES OF THE EROSION AND SEDIMENT CONTROL PROGRAM ARE:
a. ALLOW STORMWATER TO PASS THROUGH THE SITE IN A CONTROLLED MANNER AT NON-EROSIVE FLOW VELOCITIES.
b. MINIMISE SOIL EROSION FROM WATER AND WIND
c. MINIMISE ADVERSE EFFECTS OF SEDIMENT RUNOFF.
d. MINIMISE OR PREVENT ENVIRONMENTAL HARM ASSOCIATED WITH DISCHARGE FROM THE CONSTRUCTED SITE.
e. ENSURE THAT THE VALUE AND USE OF RESIDENTIAL AND INDUSTRIAL PROPERTIES ADJACENT TO THE DEVELOPMENT ARE NOT DIMINISHED AS A RESULT OF THE MIGRATION OF SEDIMENT FROM THE DEVELOPMENT.

2. THE EROSION AND SEDIMENT CONTROL PROGRAM SHALL COMPLY WITH THE ENVIRONMENTAL BEST ENGINEERING GUIDELINES FOR QUEENSLAND CONSTRUCTION SITES. THE CURRENT INSTITUTION OF ENGINEERS AUSTRALIA AND LOCAL AUTHORITY GUIDELINES. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO CONTROL EROSION AND DOWNSTREAM SEDIMENTATION DURING ALL STAGES OF CONSTRUCTIONS INCLUDING THE MAINTENANCE PERIOD. NOTWITHSTANDING THE FINISHED EARTHWORK DESIGN SHOWN ON THE DRAWINGS THE CONTRACTOR IS RESPONSIBLE TO IMPLEMENT ADDITIONAL SEDIMENT CONTROL MEASURES AND DEVICES USING BEST PRACTICES AS NECESSARY TO MINIMISE THE QUANTITY LEAVING THE SITE DURING CONSTRUCTION AND UPON COMPLETION OF EARTHWORKS.

3. THE CONTRACTOR IS TO FOLLOW CONSTRUCTION PHASE AS OUTLINED IN THE CONSTRUCTION SEQUENCE/SILT MANAGEMENT PROGRAM. ALL SEDIMENT CONTROL DEVICES SHALL BE MONITORED, CLEANED AND/OR REPLACED WHENEVER THE ACCUMULATED SEDIMENT REDUCES THE CAPACITY BY 50%. ALL PERIMETER BANK/SWALES SHALL HAVE UNINTERRUPTED POSITIVE GRADE TO AN OUTLET. AT ALL TIMES THE CONTRACTOR SHALL MONITOR THE PREVAILING WEATHER CONDITIONS AND PROTECT ANY DOWNSTREAM CONSTRUCTION AND GULLY INLETS. INLETS TO HAVE SILT PROTECTION IN ACCORDANCE WITH KERB INLET PROTECTION DETAIL AT LOCATIONS SHOWN OR AS INDICATED BY THE ENGINEER.

4. PRIOR TO THE COMMENCEMENT OF EARTHWORKS, THE CONTRACTOR IS TO CARRY OUT SOIL TESTING (IF REQUIRED BY SUPERINTENDENT) TO DETERMINE THE DISPERSIVE CHARACTERISTICS OF THE SOIL AND RESULTS TO BE GIVEN TO THE ENGINEERS SO THE FINALIZATION OF THE EROSION AND SEDIMENT CONTROL PLAN CAN BE COMPLETE.

5. TOPSOIL SHALL BE STRIPPED AND STOCKPILED IN LOCATIONS AGREED WITH THE SUPERINTENDENT. CLEARING OF SITE AND STOCKPILE AREAS TO BE AS DIRECTED BY THE SUPERVISING ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING DUST AT ALL TIMES INCLUDING WEEKENDS AND PUBLIC HOLIDAYS.

6. SUITABLE ACCESS SHALL BE PROVIDED TO ALLOW MAINTENANCE OF ALL SEDIMENT CONTROL DEVICES (IT IS TO BE NOTED THAT CLEARING SHALL ONLY OCCUR IN AREAS WHERE THERE IS NO OTHER ALTERNATIVE TO GAIN ACCESS TO THE LOCATION OF THE SEDIMENT CONTROL DEVICES). APPROVAL FOR REMOVAL OF PROTECTED SIZE VEGETATION MUST BE OBTAINED PRIOR TO CLEARING.

7. ROCK BUNDS TO BE PLACED AROUND ALL HEADWALLS DURING CONSTRUCTION.

8. 0.8m TURF IS TO BE PLACED BEHIND ON ALL BATTERS WITHIN PRIVATE OPEN SPACE STEEPER THAN 1:4 UNLESS OTHERWISE NOTED. THE EXTENT OF GRASSING SHALL BE DETERMINED BY THE ENGINEER AND SHALL BE SEEDED, AS SPECIFIED, WITHIN 7 DAYS OF FINAL TRIMMING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT GRASS STRIKE RATES ARE ACHIEVED AT ON AND OFF MAINTENANCE INSPECTION IN ACCORDANCE WITH COUNCIL REQUIREMENTS.

9. TURF IS TO BE PLACED FROM BACK OF KERB TO ROAD RESERVE BOUNDARY ON ALL ROADS AFTER EARTHWORKS ARE COMPLETE.

10. GEO-FABRIC LINING OF CHANNELS AND CHECK DAMS MAY BE REQUIRED SUBJECT TO THE SITE CONDITIONS.

11. FILLING AND OR MAINTENANCE OF EXISTING AND OR SEDIMENT BASINS MAY REQUIRE FLOCCULATION.

12. BATTERS WITHIN PUBLIC OPEN SPACE TO BE VEGETATED IN ACCORDANCE WITH THE APPROVED OPEN SPACE MANAGEMENT PLAN (OSMP).

13. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN OUT GPT'S, SEDIMENT FOREBAYS AND ALL OTHER SEDIMENT CONTROL DEVICES DURING CONSTRUCTION AND PRIOR BOTH ON AND OFF MAINTENANCE INSPECTIONS WITH CoGC. THE CONTRACTOR SHALL ALLOW FOR THE COST OF THESE WORKS WITHIN THEIR SUBMITTED TENDER PRICE.

CONSTRUCTION SEQUENCE / SILT MANAGEMENT PROGRAM

1. PRE START
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 1289.5.1.1). 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).

SEWER RETICULATION

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 RPEQ 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.

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! 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.

GENERAL NOTES

gassman development perspectives est 1985
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Client:
FRASERS PROPERTY
FPI QUEENSLAND PTY. LTD.

Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
GENERAL NOTES

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

Scale at A1:	NTS
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 002
Rev. No: D

FEATURE LEGEND

GUARDRAIL
TOP OF BATTER / BERM
PROPERTY LINE
PROPERTY FENCE LINE
PROPOSED KERB, FOOTPATH
EXISTING PROPERTY LINE WITH FENCE
EXISTING KERB, FOOTPATH
EXISTING EDGE OF BITUMEN

EXISTING CONTOURS

DESIGN CONTOURS

PROPOSED LINEMARKING

PROPOSED TRENCH SHORING

355.000 360.000 365.000 370.000 375.000 380.000 — RUNNING PIPE CHAINAGE

PIPE CHAINAGE KEY PLAN FOR DWG 600 SERIES PLANS

SERVICES LEGEND

PROPOSED TRUNK GRAVITY SEWER MAIN (DIA./CLASS AS SPEC.)

EXISTING SEWER RISING MAIN (SURVEY / POTHOLE)
EXISTING SEWER RISING MAIN (DBYD / COUNCIL GIS)
EXISTING PRIVATE SEWER RISING MAIN (MAPINFO DATABASE)
EXISTING GRAVITY SEWER MAIN (SURVEY / POTHOLE)
EXISTING GRAVITY SEWER MAIN (DBYD / COUNCIL GIS)
EXISTING STORMWATER LINE (SURVEY)
EXISTING WATER MAIN
EXISTING GAS MAIN
EXISTING UNDERGROUND ELECTRICITY
EXISTING OVERHEAD ELECTRICITY
EXISTING TELSTRA
EXISTING COMMUNICATIONS

DECOMMISSION / TAKE UP SEWER RISING MAIN
DECOMMISSION / TAKE UP SEWER GRAVITY MAIN
DECOMMISSION / TAKE UP STORMWATER LNE

DECOMMISSION, CAP AND ABANDON SEWER RISING MAIN
(APPLIES ALSO TO PRIVATE MAINS)

SURVEY SYMBOLS LEGEND

ELECTRICITY PIT
ELECTRICITY POLE
LIGHT POLE
GULLY TRAP
FIELD INLET
COMMS PIT
TRAFFIC LIGHT
GATE
GAS WARNING MARKER
SEWER MANHOLE
EXISTING SIGN
BIN — EXISTING BIN
PB — POST BOX
T — TELEPHONE BOX
TELSTRA PIT
MP — TELSTRA MARKER POST
WM — WATER METER
V — WATER VALVE
F.H. — FIRE HYDRANT
TAP — WATER TAP
WATER HYDRANT
WATER TEE
WATER REDUCER
WATER ENDCAP
WATER CONNECTION

EXISTING TREE

LEGEND

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FPI QUEENSLAND PTY. LTD.

Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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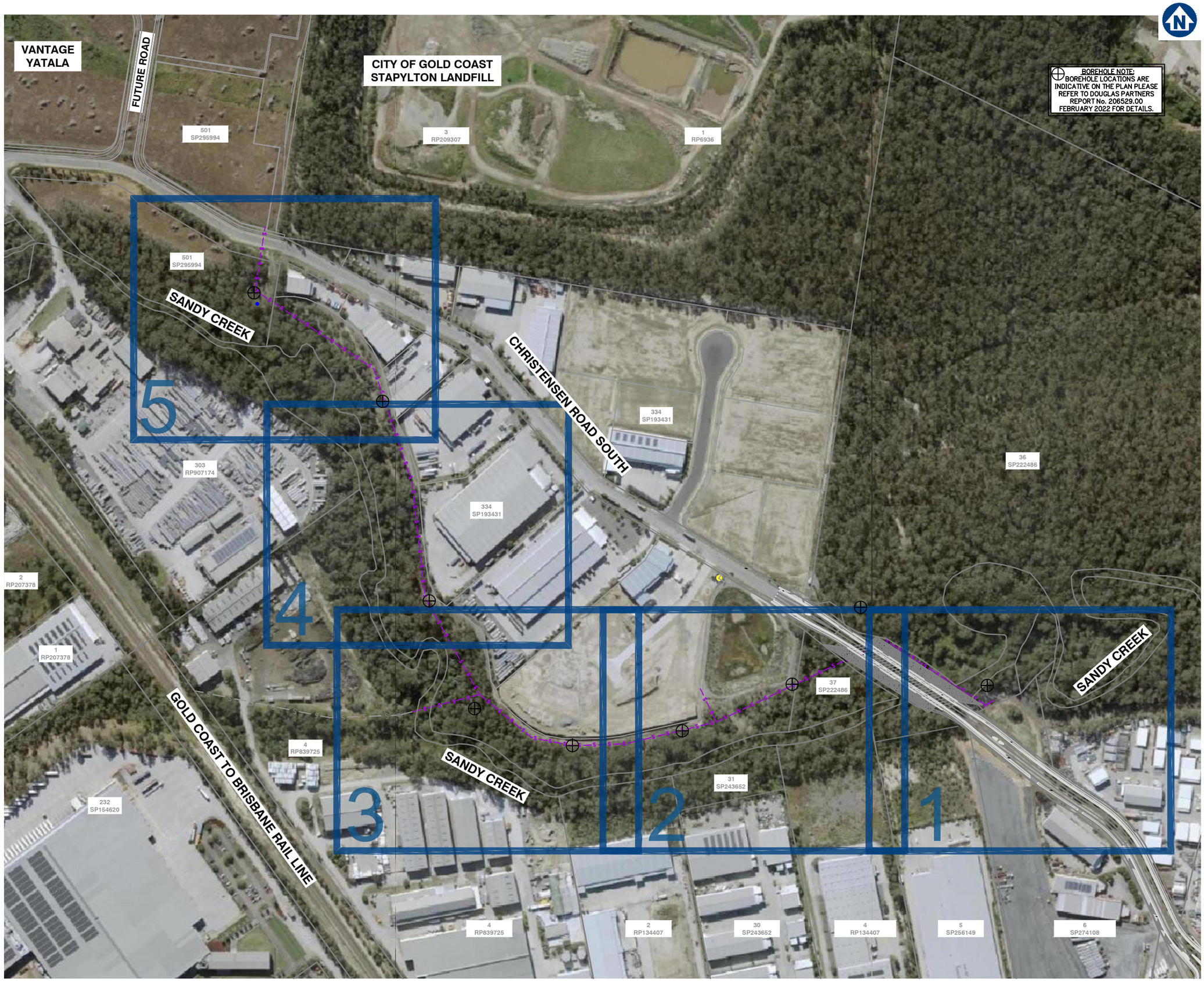
LEGEND

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

Scale at A1:	NTS
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 003
Rev. No: D



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DRAWING TITLE

KEY PLAN LAYOUT AND BOREHOLE INVESTIGATION LOCATIONS

Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER LAYTOUT UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES

0 40 80 120 160 200

1:2000 (FULL SIZE A1)
1:4000 (HALF SIZE A3)

Scale at A1:	1:2000
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 005
Rev. No: E

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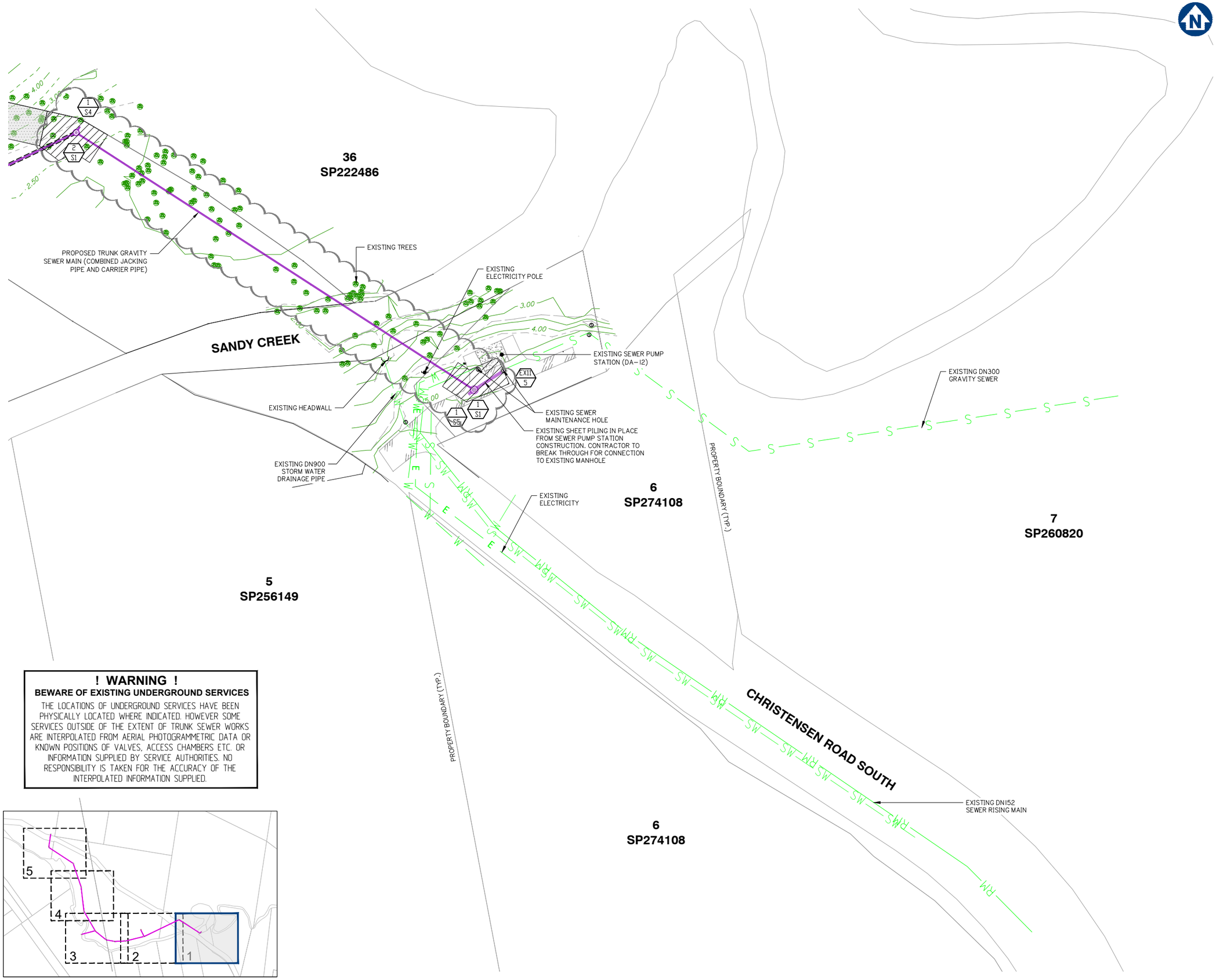
AERIAL IMAGE SOURCED FROM NEARMAPS



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BEWARE OF EXISTING UNDERGROUND SERVICES

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KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 1 OF 5

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CONTOURS AND DETAILS PLAN SHEET 1 OF 5

Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER LAYOUT AMENDED	JH	MG
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C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
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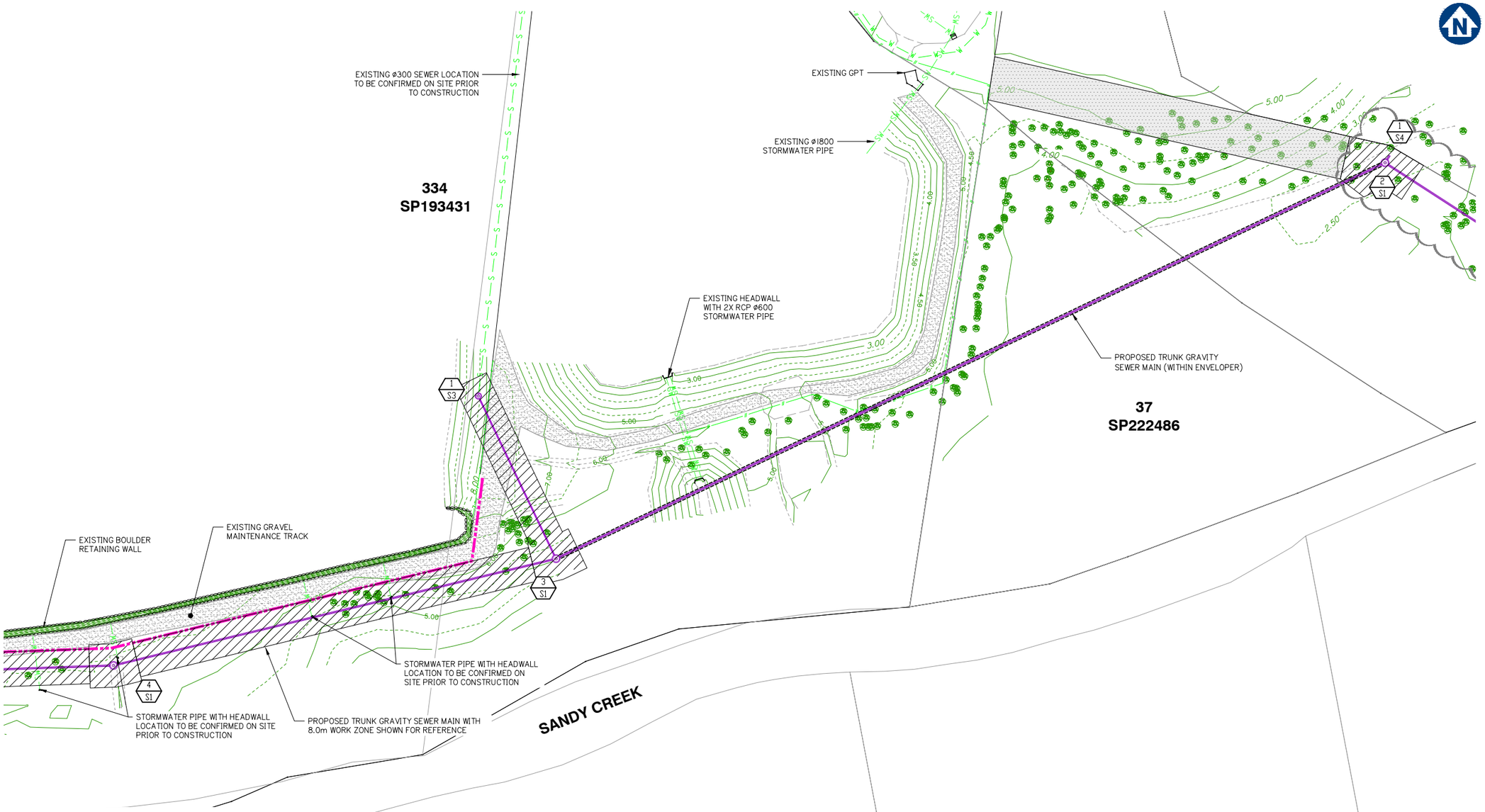
SCALE IN METRES

0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 010
Rev. No: E



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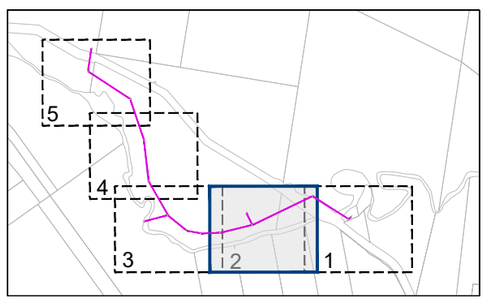

KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 2 OF 5

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Project:

TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:

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CONTOURS AND DETAILS PLAN SHEET 2 OF 5

Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER LAYOUT UPDATED	JH	MG
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C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES

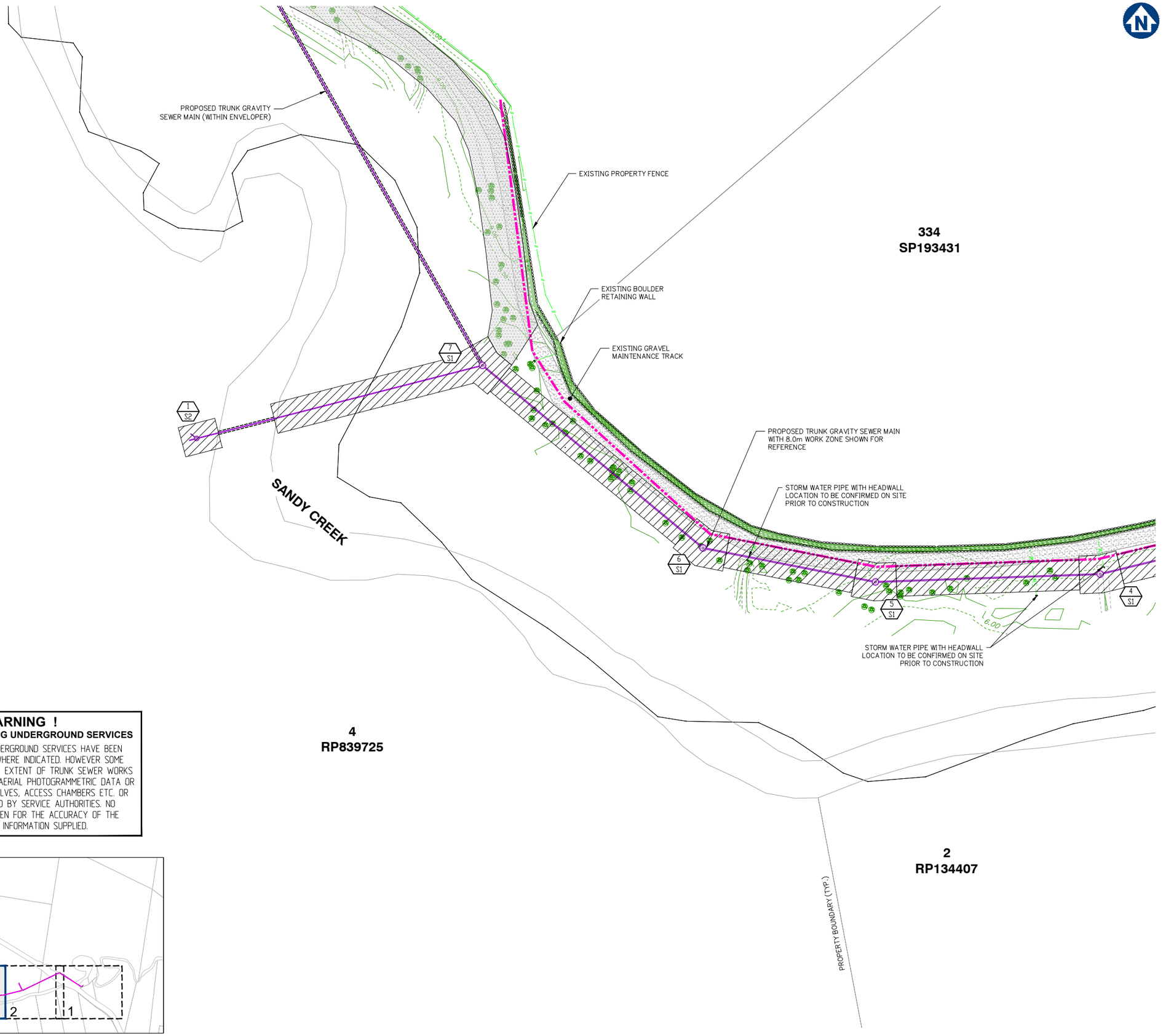
0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 011

Rev. No: E



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KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 3 OF 5

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DRAWING TITLE

CONTOURS AND DETAILS PLAN SHEET 3 OF 5

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

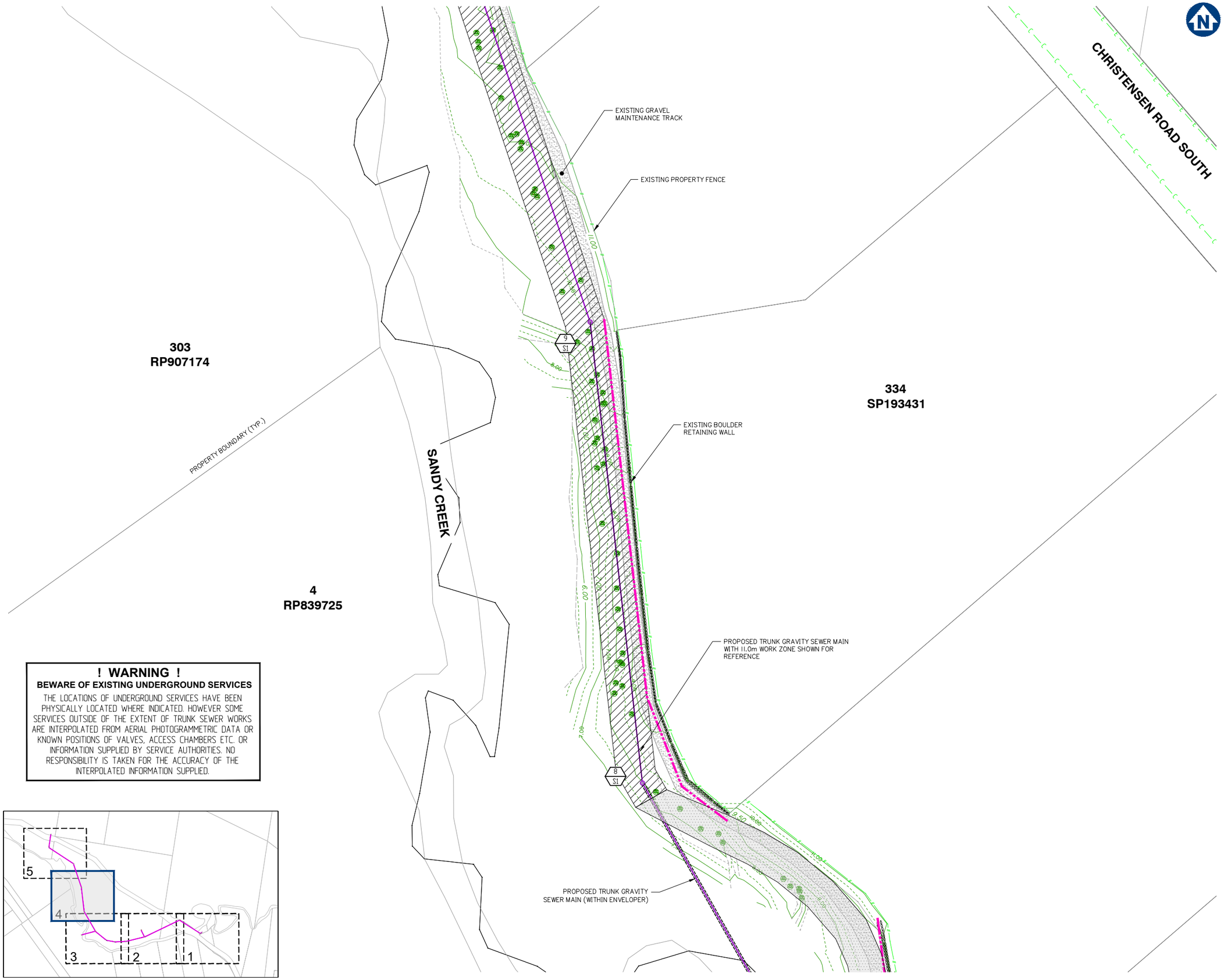
SCALE IN METRES

0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 012
Rev. No: D



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KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 4 OF 5

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Client:

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Project:

TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:

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RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

CONTOURS AND DETAILS PLAN SHEET 4 OF 5

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES

0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 013

Rev. No: D

VANTAGE YATALA

EXISTING ø150mm uPVC CL SN8 GRAVITY SEWER LINE

EXISTING DN150 uPVC POTABLE WATER

EXISTING OVERHEAD POWER

EXISTING DN525 DRAINAGE PIPE

EXISTING COMMUNICATIONS SERVICES

EXISTING ELECTRICITY

PROPERTY BOUNDARY (TYP.)

3
RP209307

PROPOSED TRUNK GRAVITY SEWER MAIN (WITHIN ENVELOPER)

501
SP295994

EXISTING EASEMENT

334
SP193431

CHRISTENSEN ROAD SOUTH

EXISTING WEDGE TAIL EAGLE NEST (RELOCATED)

SANDY CREEK

EXISTING GRAVEL MAINTENANCE TRACK

334
SP193431

EXISTING PROPERTY FENCE

PROPOSED TRUNK GRAVITY SEWER MAIN (WITHIN ENVELOPER)

303
RP907174

PROPOSED TRUNK GRAVITY SEWER MAIN WITH 11.0m WORK ZONE SHOWN FOR REFERENCE

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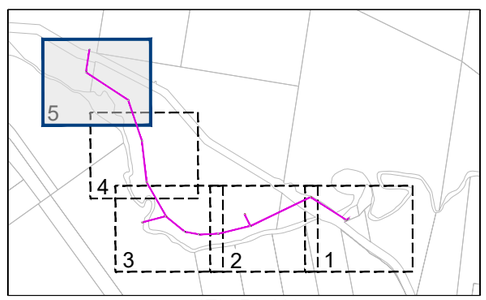

KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 5 OF 5

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A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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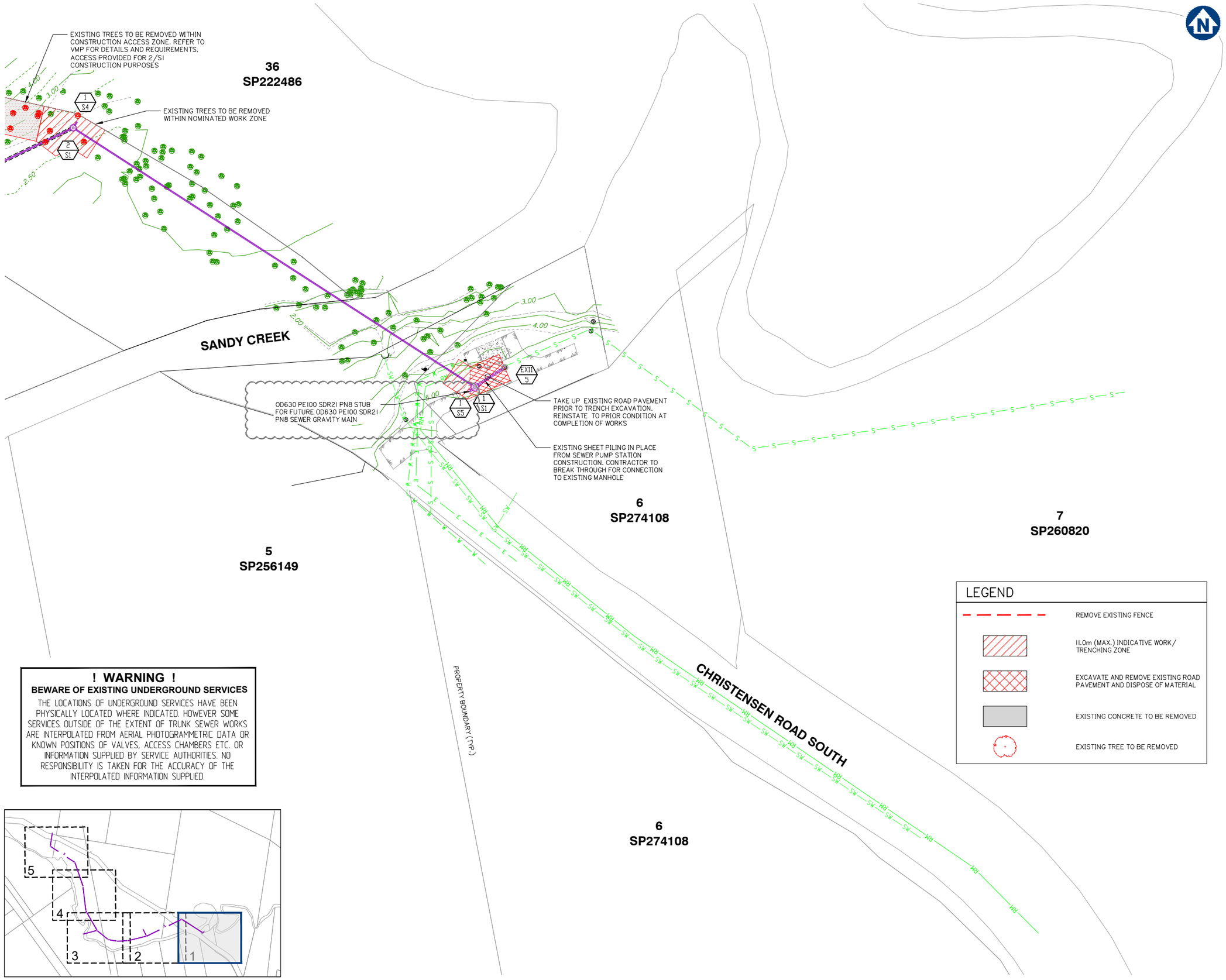
0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 014
Rev. No: D



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KEY PLAN

DEMOLITION AND PROTECTION PLAN SHEET 1 OF 5

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DRAWING TITLE

DEMOLITION AND PROTECTION PLAN SHEET 1 OF 5

Issue	Date	Description	DRN	CHK
F	14-09-2023	NOTE ADDED	JH	MG
E	14-08-2023	SEWER LAYOUT UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
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SCALE IN METRES

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1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
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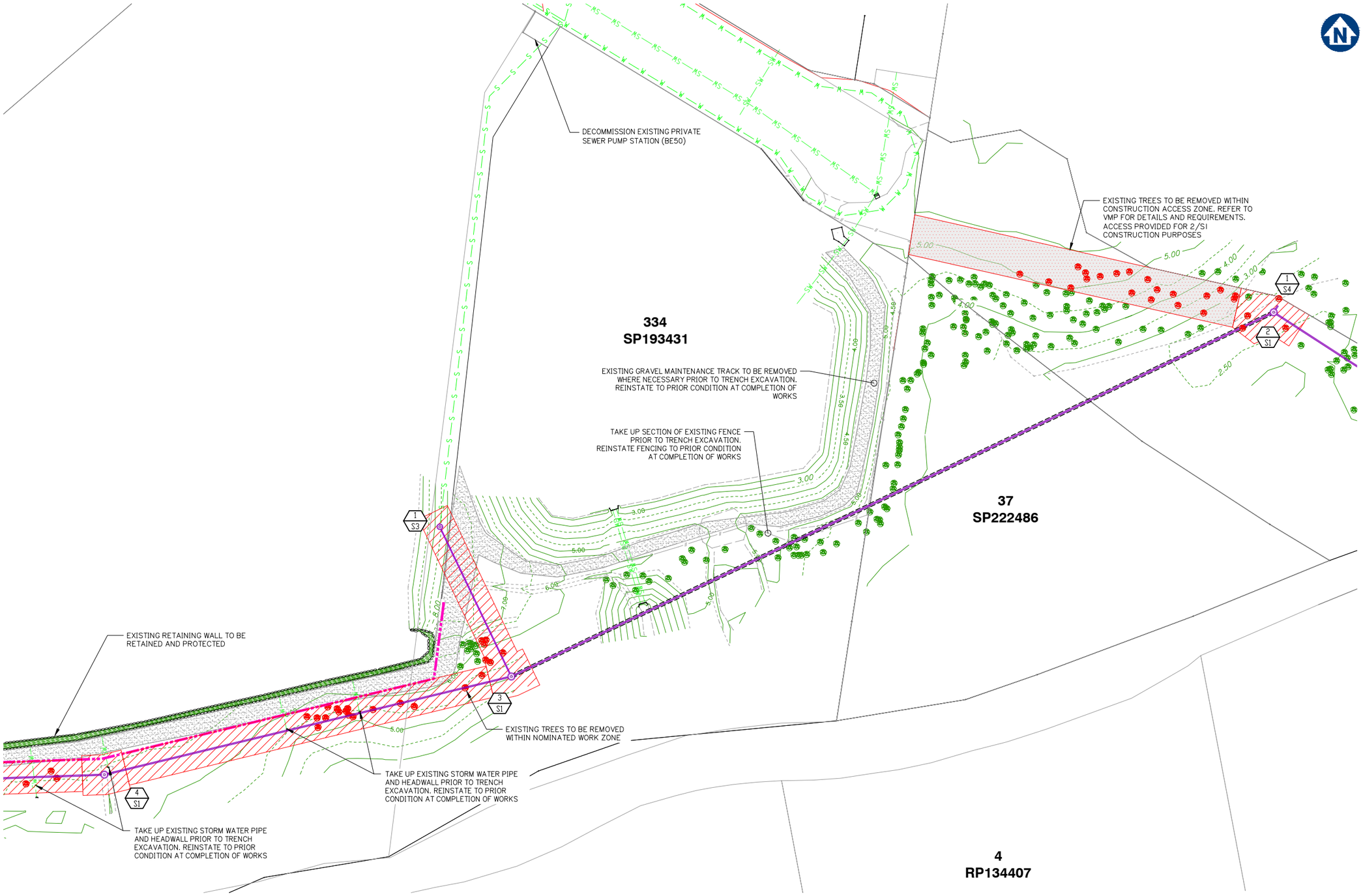
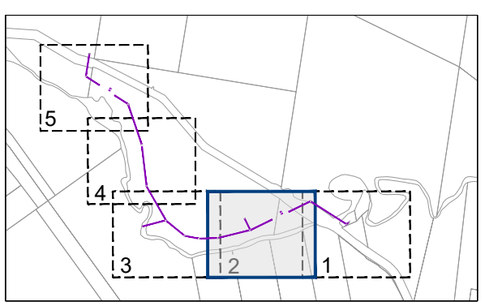
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 020

Rev. No: F





KEY PLAN

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LEGEND

- REMOVE EXISTING FENCE
- 11.0m (MAX.) INDICATIVE WORK/ TRENCHING ZONE
- EXCAVATE AND REMOVE EXISTING ROAD PAVEMENT AND DISPOSE OF MATERIAL
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TREE TO BE REMOVED

DEMOLITION AND PROTECTION PLAN SHEET 2 OF 5

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A	20-11-2021	ORIGINAL ISSUE	LAB	MG

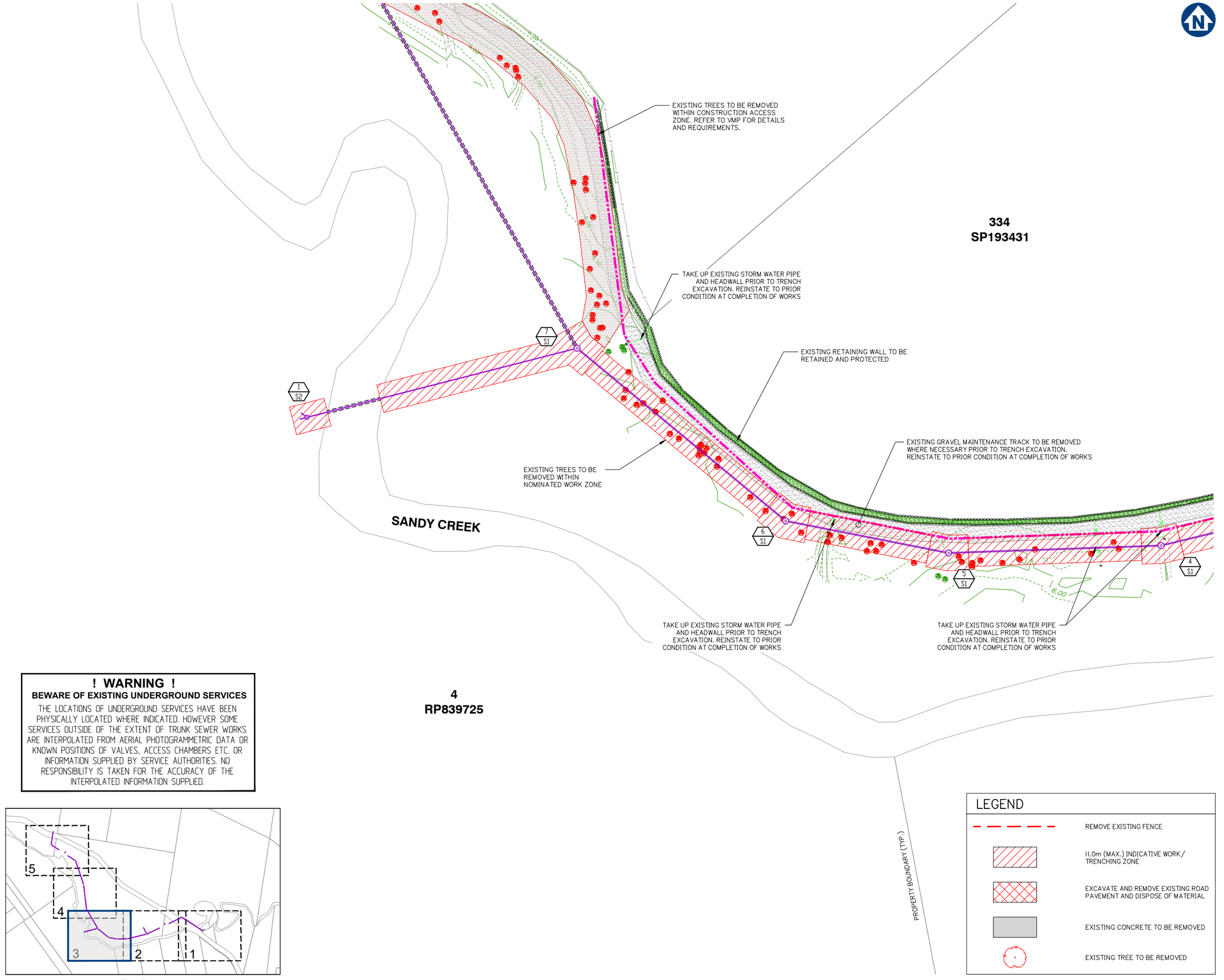
SCALE IN METRES

0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 021
Rev. No: E



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KEY PLAN

DEMOLITION AND PROTECTION PLAN SHEET 3 OF 5

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Client:

FPI QUEENSLAND PTY. LTD.

Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

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DRAWING TITLE

DEMOLITION AND PROTECTION PLAN SHEET 3 OF 5

Issue	Date	Description	DRN	CHK
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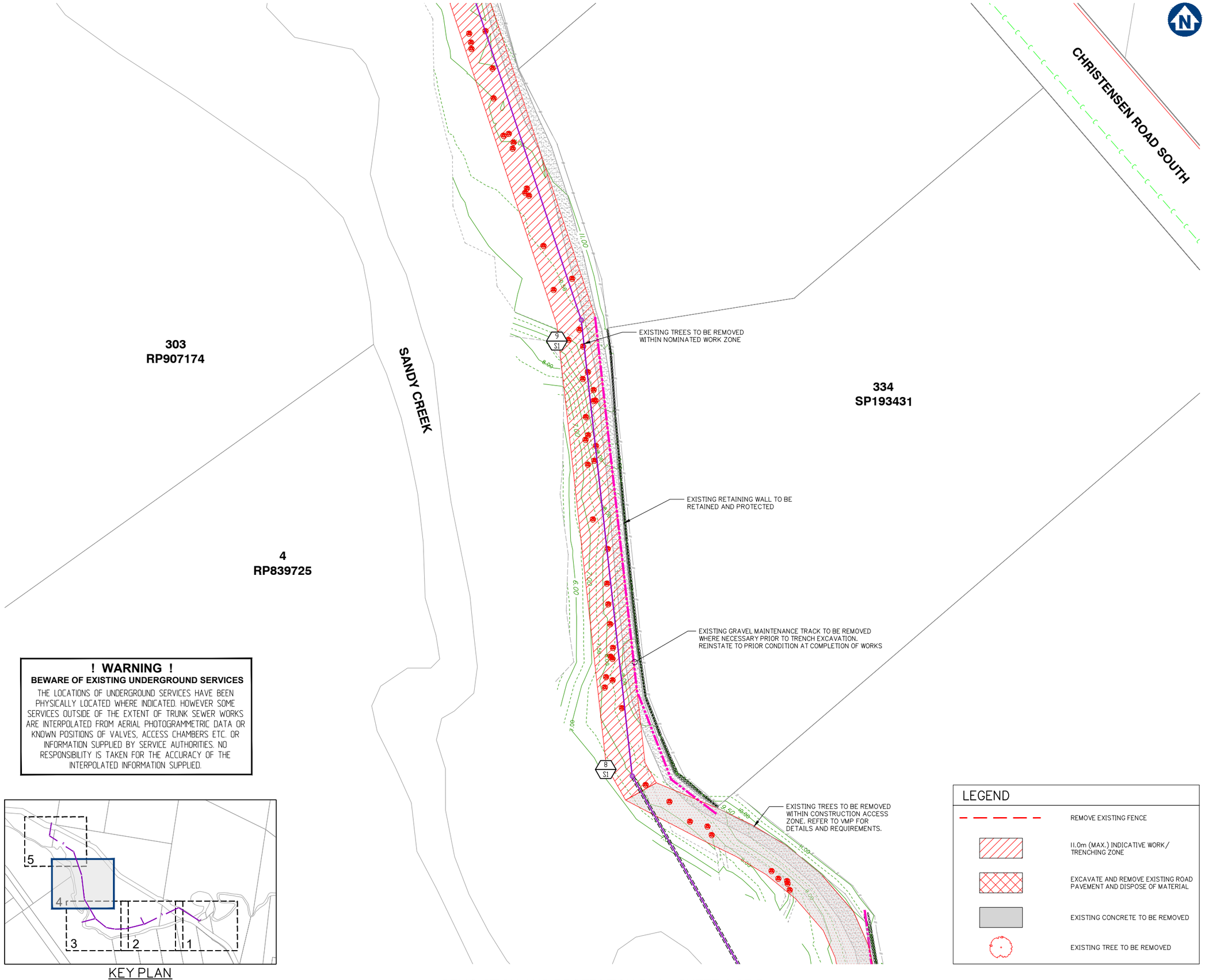
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 022
Rev. No: D



DEMOLITION AND PROTECTION PLAN SHEET 4 OF 5

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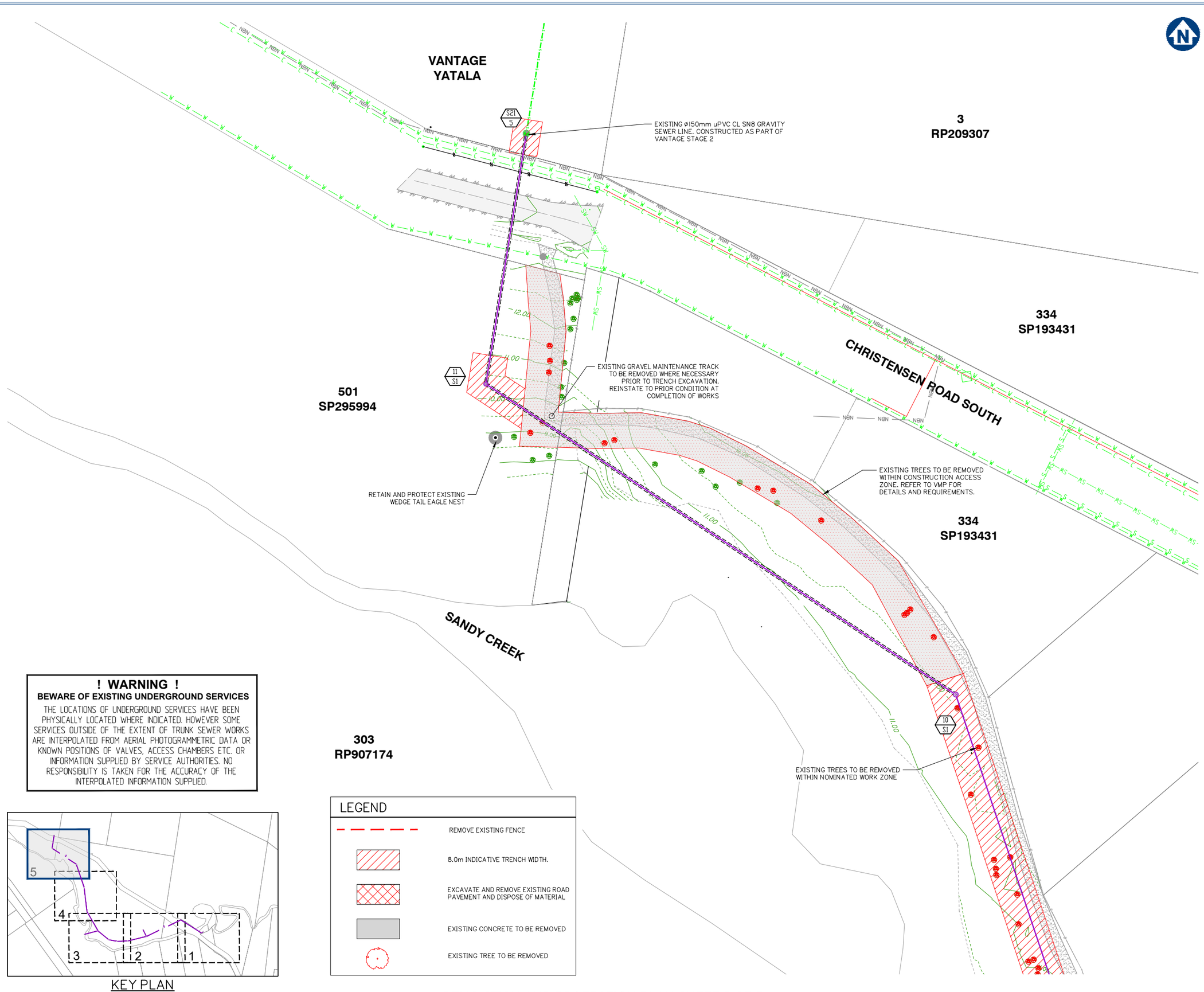
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 023
Rev. No: D



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KEY PLAN

LEGEND

- REMOVE EXISTING FENCE
- 8.0m INDICATIVE TRENCH WIDTH.
- EXCAVATE AND REMOVE EXISTING ROAD PAVEMENT AND DISPOSE OF MATERIAL
- EXISTING CONCRETE TO BE REMOVED
- EXISTING TREE TO BE REMOVED

DEMOLITION AND PROTECTION PLAN SHEET 5 OF 5

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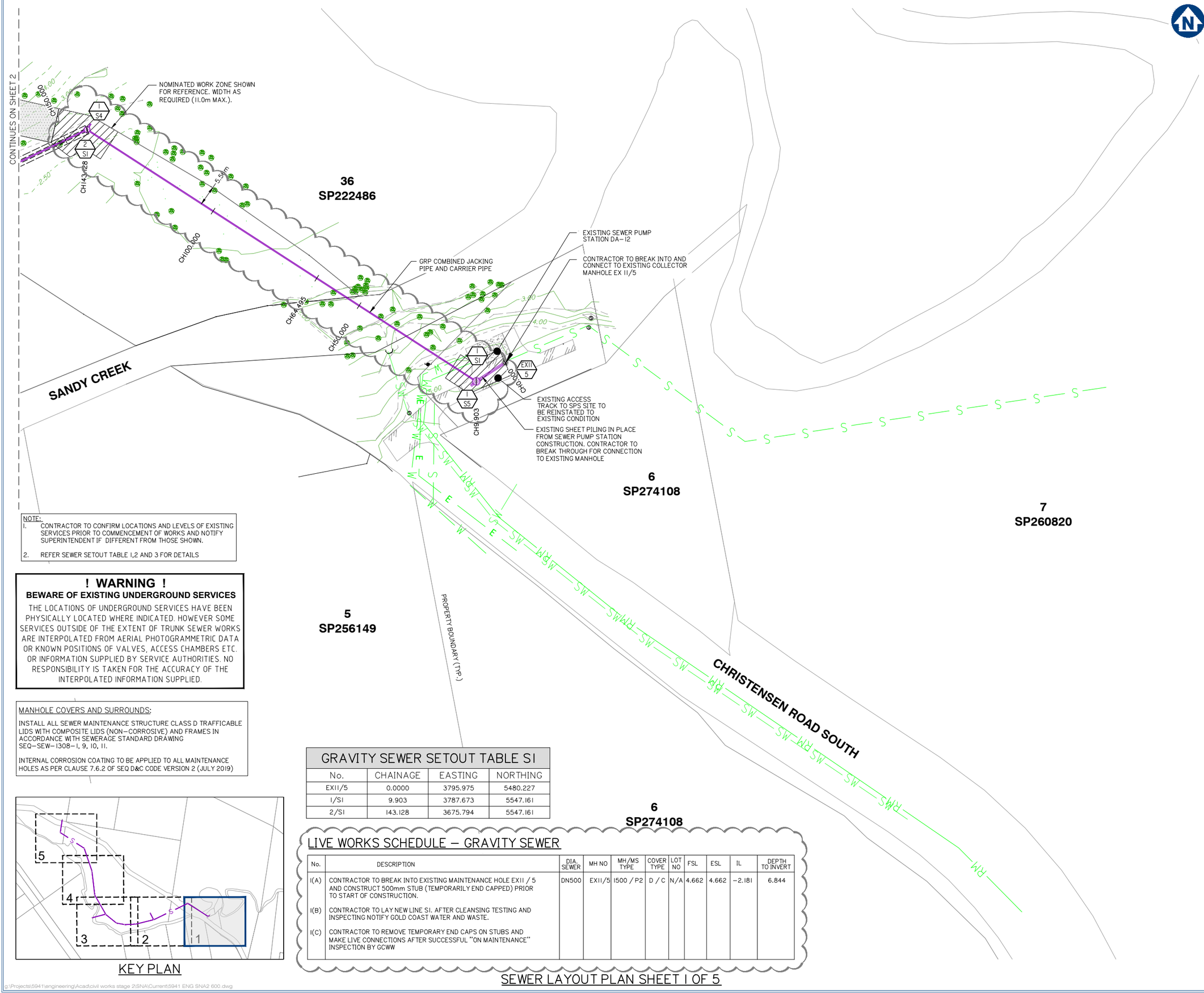
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 024

Rev. No: D



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2. REFER SEWER SETOUT TABLE 1,2 AND 3 FOR DETAILS

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MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

KEY PLAN

GRAVITY SEWER SETOUT TABLE S1

No.	CHAINAGE	EASTING	NORTHING
EXII/5	0.0000	3795.975	5480.227
1/S1	9.903	3787.673	5547.161
2/S1	143.128	3675.794	5547.161

LIVE WORKS SCHEDULE – GRAVITY SEWER

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	CONTRACTOR TO BREAK INTO EXISTING MAINTENANCE HOLE EXII / 5 AND CONSTRUCT 500mm STUB (TEMPORARILY END CAPPED) PRIOR TO START OF CONSTRUCTION.	DN500	EXII/5	1500 / P2	D / C	N/A	4.662	4.662	-2.181	6.844
1(B)	CONTRACTOR TO LAY NEW LINE S1. AFTER CLEANSING TESTING AND INSPECTING NOTIFY GOLD COAST WATER AND WASTE.									
1(C)	CONTRACTOR TO REMOVE TEMPORARY END CAPS ON STUBS AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION BY GCWW									

SEWER LAYOUT PLAN SHEET 1 OF 5

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TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

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Level Datum:	AHD
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PSM:	-
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SEWER LAYOUT PLAN
SHEET 1 OF 5

Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER LAYOUT AMENDED	JH	MG
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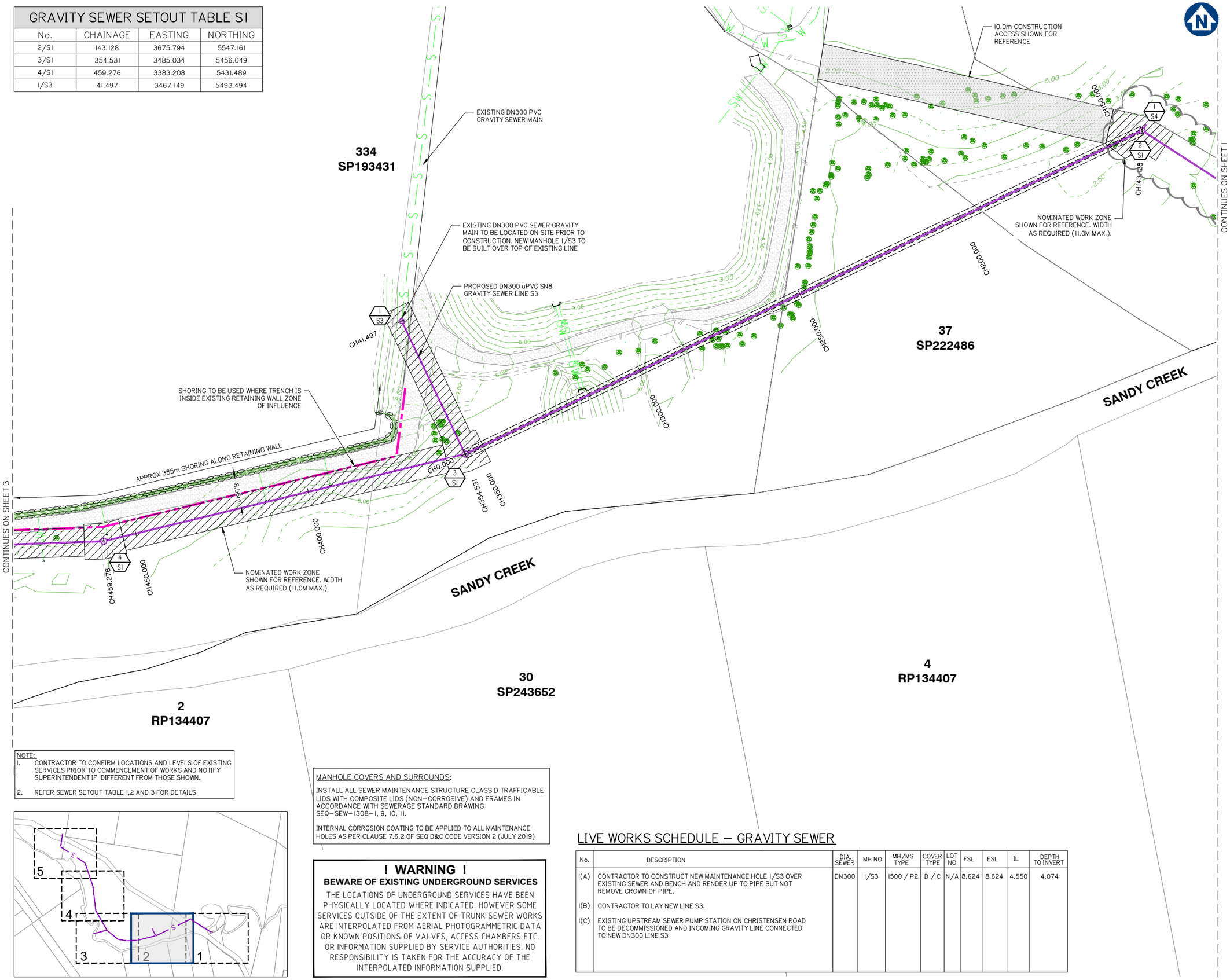
0 10 20 30 40 50

1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 600
Rev. No: E

GRAVITY SEWER SETOUT TABLE S1			
No.	CHAINAGE	EASTING	NORTHING
2/S1	143.128	3675.794	5547.161
3/S1	354.531	3485.034	5456.049
4/S1	459.276	3383.208	5431.489
1/S3	41.497	3467.149	5493.494



NOTE:
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2. REFER SEWER SETOUT TABLE 1,2 AND 3 FOR DETAILS

KEY PLAN

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

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LIVE WORKS SCHEDULE – GRAVITY SEWER

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	CONTRACTOR TO CONSTRUCT NEW MAINTENANCE HOLE 1/S3 OVER EXISTING SEWER AND BENCH AND RENDER UP TO PIPE BUT NOT REMOVE CROWN OF PIPE.	DN300	1/S3	1500 / P2	D / C	N/A	8.624	8.624	4.550	4.074
1(B)	CONTRACTOR TO LAY NEW LINE S3.									
1(C)	EXISTING UPSTREAM SEWER PUMP STATION ON CHRISTENSEN ROAD TO BE DECOMMISSIONED AND INCOMING GRAVITY LINE CONNECTED TO NEW DN300 LINE S3									

SEWER LAYOUT PLAN SHEET 2 OF 5

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TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
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SEWER LAYOUT PLAN
SHEET 2 OF 5

Issue	Date	Description	DRN	CHK
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1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
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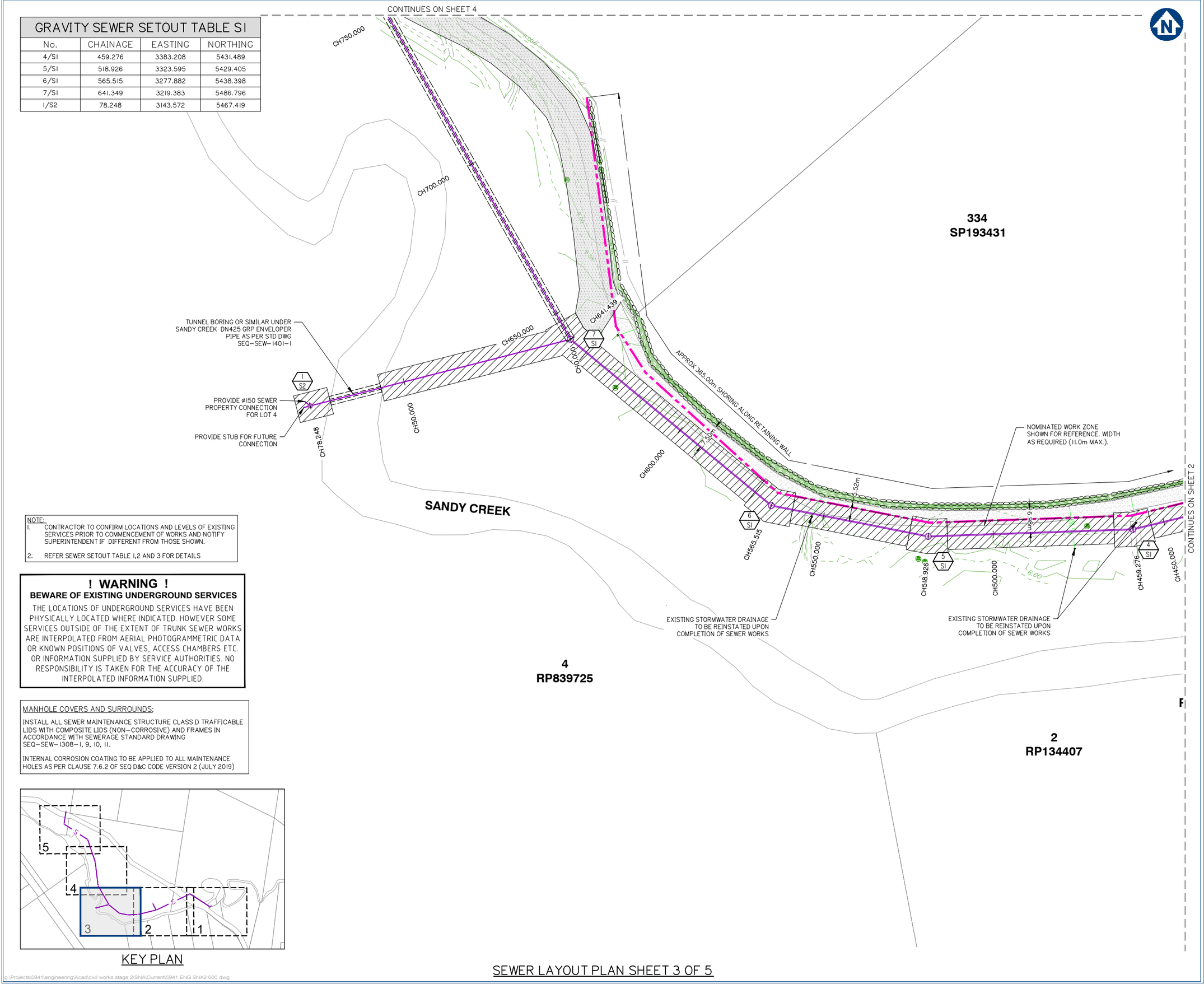
GRAVITY SEWER SETOUT TABLE S1			
No.	CHAINAGE	EASTING	NORTHING
4/S1	459.276	3383.208	5431.489
5/S1	518.926	3323.595	5429.405
6/S1	565.515	3277.882	5438.398
7/S1	641.349	3219.383	5486.796
1/S2	78.248	3143.572	5467.419



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KEY PLAN

SEWER LAYOUT PLAN SHEET 3 OF 5

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SHEET 3 OF 5

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Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
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CONTINUES ON SHEET 5

GRAVITY SEWER SETOUT TABLE SI			
No.	CHAINAGE	EASTING	NORTHING
8/SI	765.764	3158.209	5595.029
9/SI	895.805	3143.543	5852.307

SHORING TO BE USED WHERE TRENCH ENCROACHES ON BOUNDARY

CHRISTENSEN ROAD SOUTH

7.95m

CH950.000

CH900.000

CH895.805

9 SI

SHORING TO BE USED WHERE TRENCH IS INSIDE EXISTING RETAINING WALL ZONE OF INFLUENCE

SANDY CREEK

303
RP907174

334
SP193431

PROPERTY BOUNDARY (TYP.)

CH850.000

APPROX 130m SHORING ALONG RETAINING WALL

5.29m

4
RP839725

CH800.000

NOMINATED WORK ZONE SHOWN FOR REFERENCE. WIDTH AS REQUIRED (11.0m MAX.).

8 SI

CH765.764

CH750.000

CONTINUES ON SHEET 3

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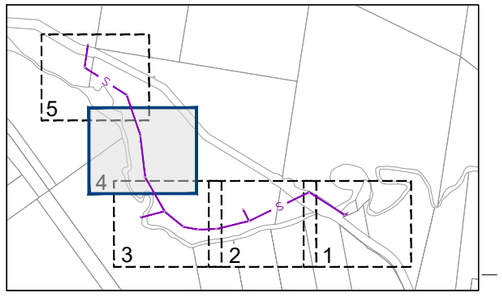

KEY PLAN

SEWER LAYOUT PLAN SHEET 4 OF 5

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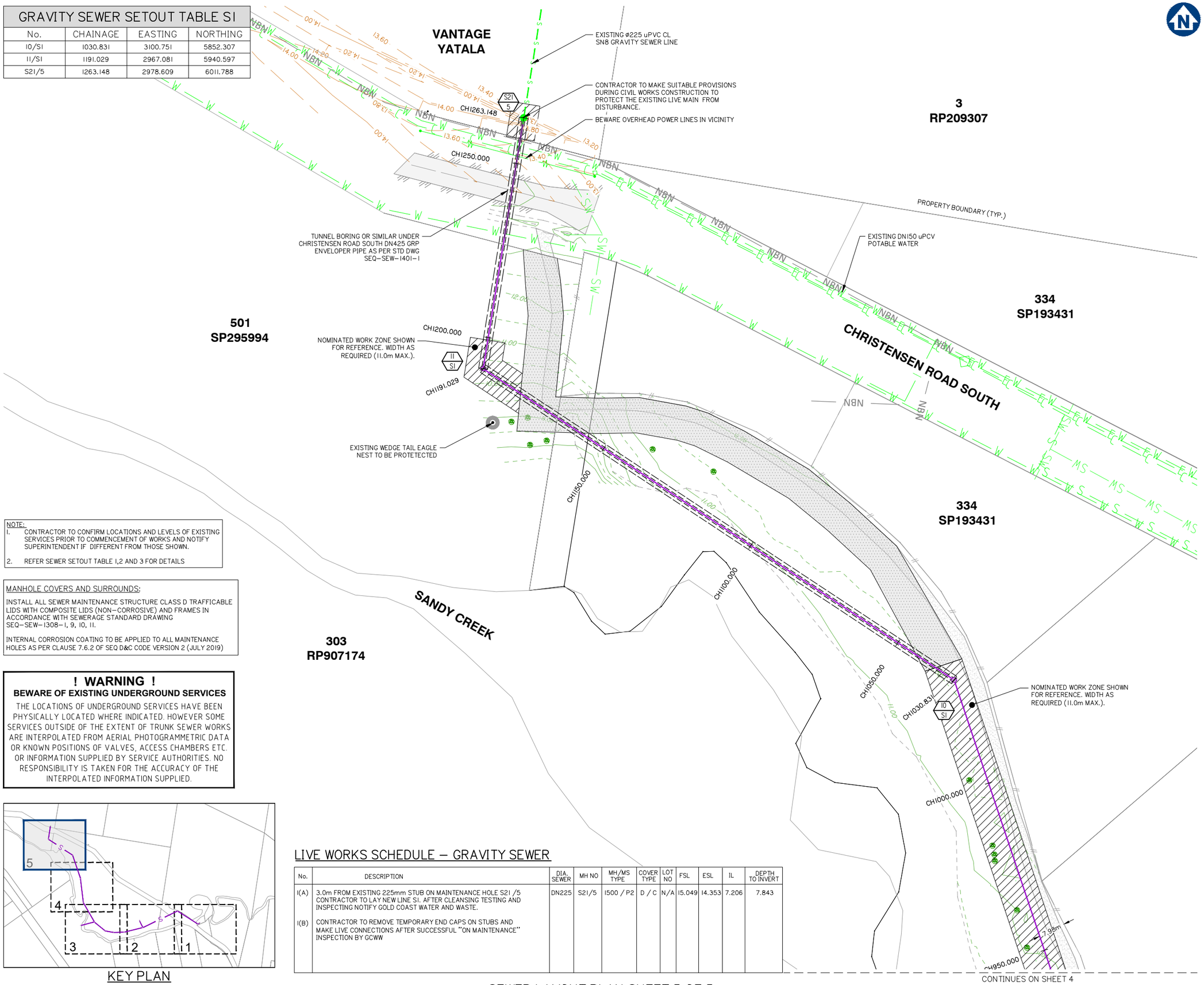
Drawing No: 5941 ENG SNA2 603
Rev. No: D

GRAVITY SEWER SETOUT TABLE S1

No.	CHAINAGE	EASTING	NORTHING
10/S1	1030.831	3100.751	5852.307
11/S1	1191.029	2967.081	5940.597
S21/5	1263.148	2978.609	6011.788



NOTE:
1. CONTRACTOR TO CONFIRM LOCATIONS AND LEVELS OF EXISTING SERVICES PRIOR TO COMMENCEMENT OF WORKS AND NOTIFY SUPERINTENDENT IF DIFFERENT FROM THOSE SHOWN.
2. REFER SEWER SETOUT TABLE 1,2 AND 3 FOR DETAILS

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

! 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

LIVE WORKS SCHEDULE – GRAVITY SEWER

No.	DESCRIPTION	DIA. SEWER	MH NO	MH/MS TYPE	COVER TYPE	LOT NO	FSL	ESL	IL	DEPTH TO INVERT
1(A)	3.0m FROM EXISTING 225mm STUB ON MAINTENANCE HOLE S21/5 CONTRACTOR TO LAY NEW LINE S1. AFTER CLEANSING TESTING AND INSPECTING NOTIFY GOLD COAST WATER AND WASTE.	DN225	S21/5	1500 / P2	D / C	N/A	15.049	14.353	7.206	7.843
1(B)	CONTRACTOR TO REMOVE TEMPORARY END CAPS ON STUBS AND MAKE LIVE CONNECTIONS AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION BY GCWW									

SEWER LAYOUT PLAN SHEET 5 OF 5

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Client:
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FPI QUEENSLAND PTY. LTD.

Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

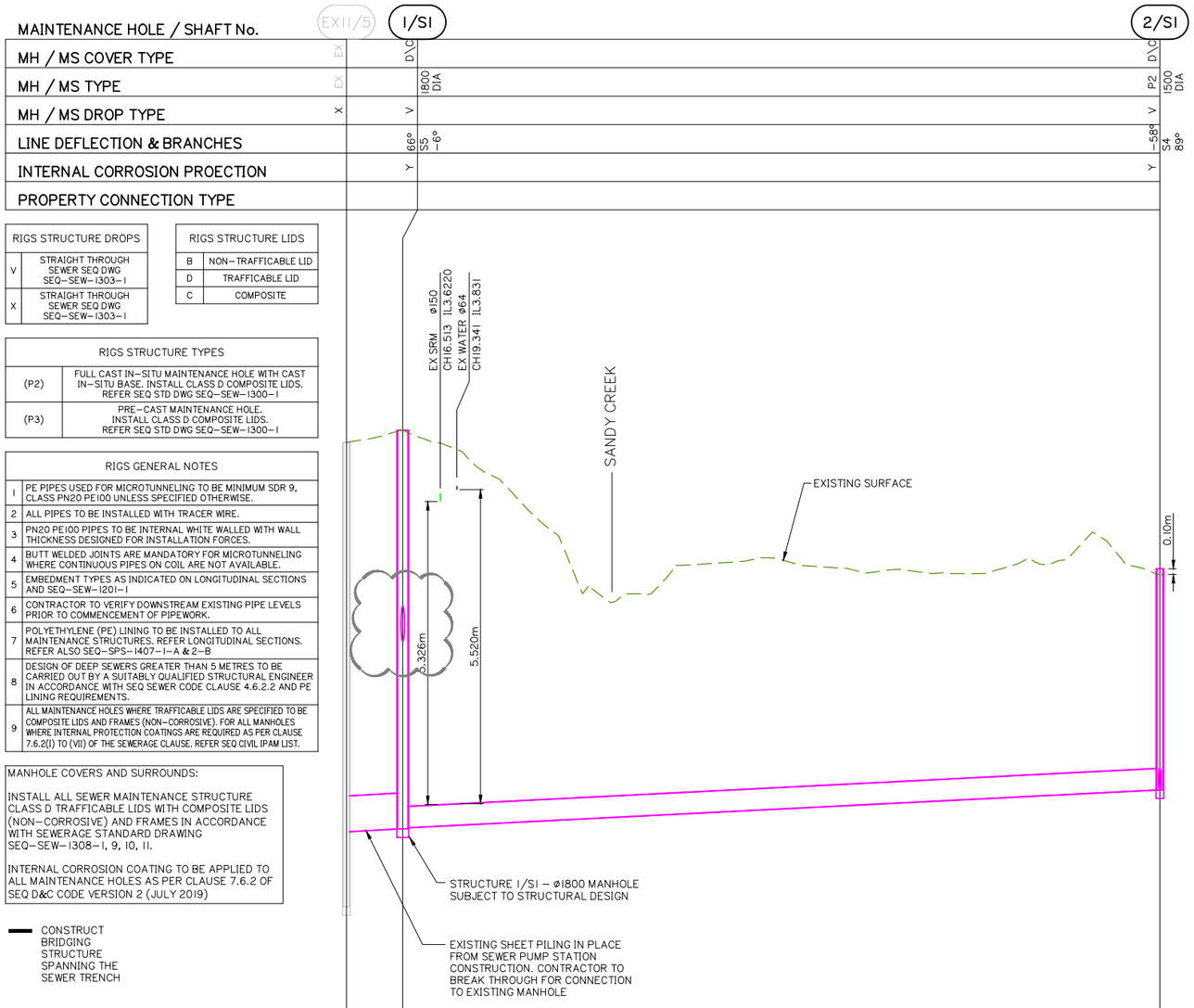
SEWER LAYOUT PLAN
SHEET 5 OF 5

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES
0 10 20 30 40 50
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 604
Rev. No: D



RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1

RIGS STRUCTURE LIDS	
B	NON–TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN–SITU MAINTENANCE HOLE WITH CAST IN–SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1
(P3)	PRE–CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1

RIGS GENERAL 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.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ–SEW–1201–1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ–SPS–1407–1–A & 2–B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON–CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON–CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ–SEW–1308–1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

— CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH

SEWER LONGITUDINAL SECTIONS SHEET 1 OF 7

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Client:

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FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
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 7

Issue	Date	Description	DRN	CHK
G	05-10-2023	SEWER SECTION UPDATED	JH	MG
F	14-09-2023	SEWER SECTIONS UPDATED	JH	MG
E	14-08-2023	SEWER SECTIONS UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05-10-2023

Drawing No: 5941 ENG SNA2 610
Rev. No: G

MAINTENANCE HOLE / SHAFT No.	2/SI	3/SI
MH / MS COVER TYPE	D\C	D\C
MH / MS TYPE	P2 1500 DIA	P2 1500 DIA
MH / MS DROP TYPE	V	V
LINE DEFLECTION & BRANCHES	I-58° S4 89°	I2° S3 90°
INTERNAL CORROSION PROECTION		Y
PROPERTY CONNECTION TYPE		

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1

RIGS STRUCTURE LIDS	
B	NON-TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1

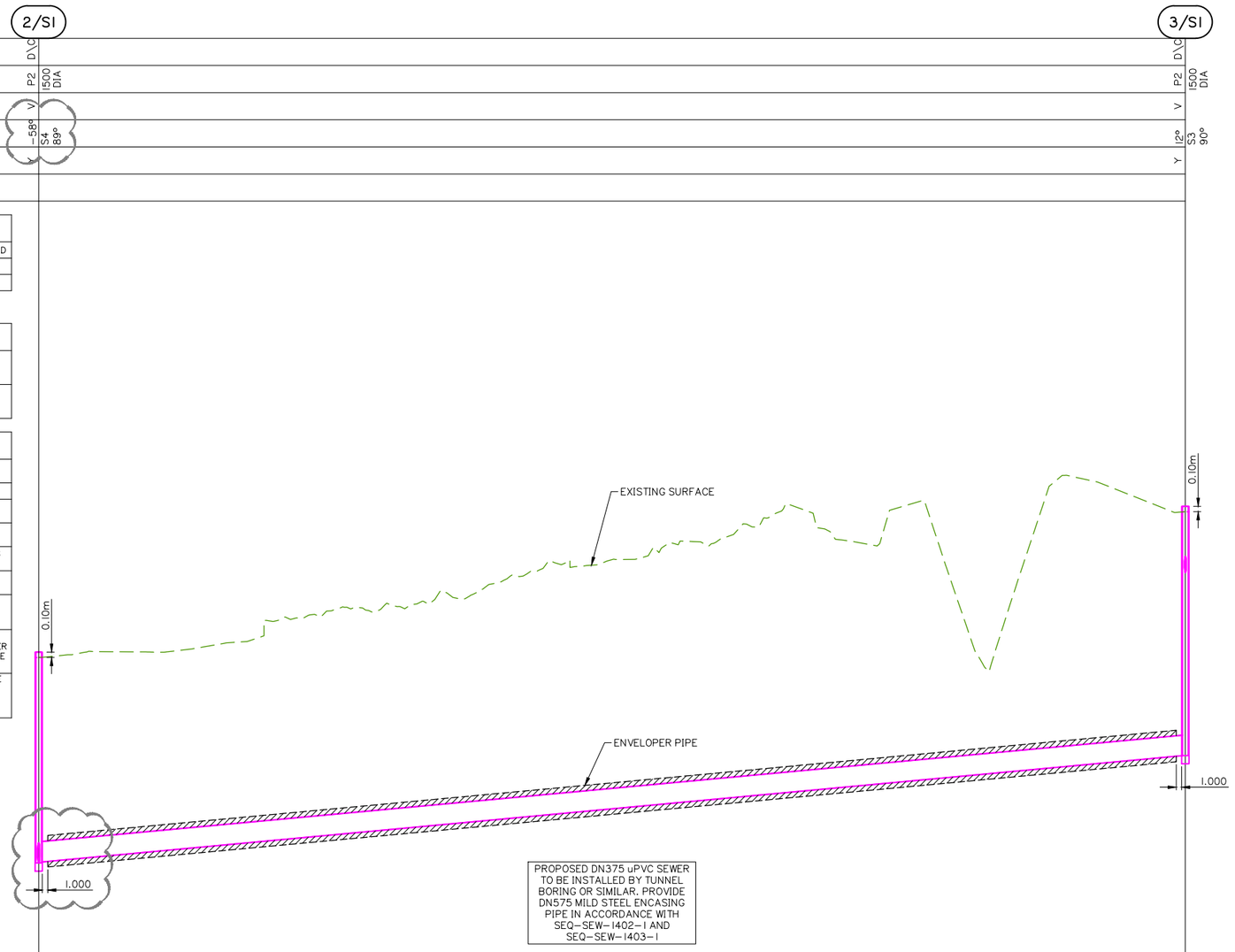
RIGS GENERAL NOTES	
1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2	ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3	PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

— CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH



ENVELOPER PIPE SIZE (mm), CLASS		DN575 MILD STEEL	
DATUM RL		-6.000	
PROPERTY DESCRIPTION			
PIPE SIZE (mm), CLASS		DN375 uPVC DWV SN8	
GRADE (1 IN X) CTR – CTR		1 IN 108	
LENGTH		211.402	
EMBEDMENT TYPE			
PIPE GRADE (%)		0.927%	
DEPTH TO INVERT	3.787	3.767	4.494
INVERT LEVEL	-1.446	-1.426	0.534
FINISHED SURFACE LEVEL	2.441		5.128
EXISTING SURFACE LEVEL	2.341		5.028
CHAINAGE	143.128		354.531
LINE	SI		

SEWER LONGITUDINAL SECTIONS SHEET 2 OF 7

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Client:

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FPI QUEENSLAND PTY. LTD.

Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
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 2 OF 7

Issue	Date	Description	DRN	CHK
F	14-09-2023	SEWER SECTIONS UPDATED	JH	MG
E	14-08-2023	SEWER SECTION UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023
Drawing No:	5941 ENG SNA2 611
Rev. No:	F

MAINTENANCE HOLE / SHAFT No.	3/SI	4/SI	5/SI	6/SI
MH / MS COVER TYPE	D\C	D\C	D\C	D\C
MH / MS TYPE	P2 1500 DIA	P2 1500 DIA	P2 1500 DIA	P2 1500 DIA
MH / MS DROP TYPE	V	V	V	V
LINE DEFLECTION & BRANCHES	12° S3 90°	12°	13°	28°
INTERNAL CORROSION PROECTION	Y	Y	Y	Y
PROPERTY CONNECTION TYPE				

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1

RIGS STRUCTURE LIDS	
B	NON-TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1

RIGS GENERAL 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.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

MANHOLE COVERS AND SURROUNDS:

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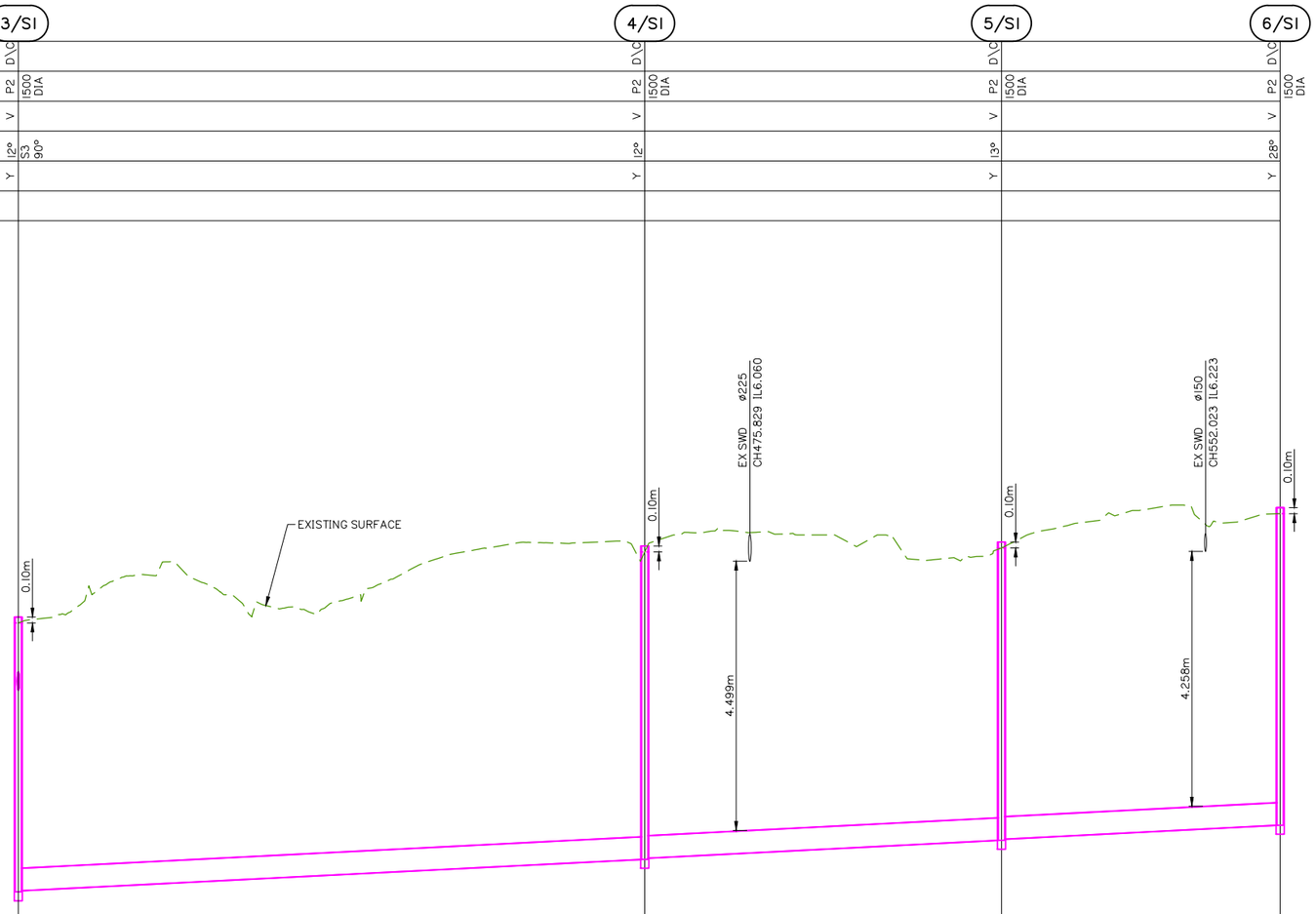
INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

— CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH



DATUM RL	-5.000			
PROPERTY DESCRIPTION				
PIPE SIZE (mm), CLASS	DN375 uPVC DWV SN8	DN375 uPVC DWV SN8	DN375 uPVC DWV SN8	
GRADE (1 IN X) CTR – CTR	1 IN 200	1 IN 200	1 IN 200	
LENGTH	104.746	59.650	46.589	
EMBEDMENT TYPE				
PIPE GRADE (%)	0.500%	0.500%	0.500%	
DEPTH TO INVERT	4.494 / 4.474	5.139 / 5.119	4.886 / 4.866	5.207
INVERT LEVEL	0.534 / 0.554	1.078 / 1.098	1.396 / 1.416	1.649
FINISHED SURFACE LEVEL	5.128	6.316	6.382	6.956
EXISTING SURFACE LEVEL	5.028	6.216	6.282	6.856
CHAINAGE	354.531	459.276	518.926	565.515
LINE	SI			

SEWER LONGITUDINAL SECTIONS SHEET 3 OF 7

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Client:

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Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

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PSM:	-
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SEWER LONGITUDINAL SECTIONS SHEET 3 OF 7

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
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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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 612
Rev. No: D

MAINTENANCE HOLE / SHAFT No.	6/SI	7/SI	8/SI
MH / MS COVER TYPE	D\C	D\C	D\C
MH / MS TYPE	P2 1500 DIA	P2 1500 DIA	P2 1050 DIA
MH / MS DROP TYPE	V	V	X
LINE DEFLECTION & BRANCHES	28°	2° S2 – 54°	23°
INTERNAL CORROSION PROECTION	Y	Y	Y
PROPERTY CONNECTION TYPE			

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1

RIGS STRUCTURE LIDS	
B	NON–TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN–SITU MAINTENANCE HOLE WITH CAST IN–SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1
(P3)	PRE–CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1

RIGS GENERAL 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.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ–SEW–1201–1
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8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
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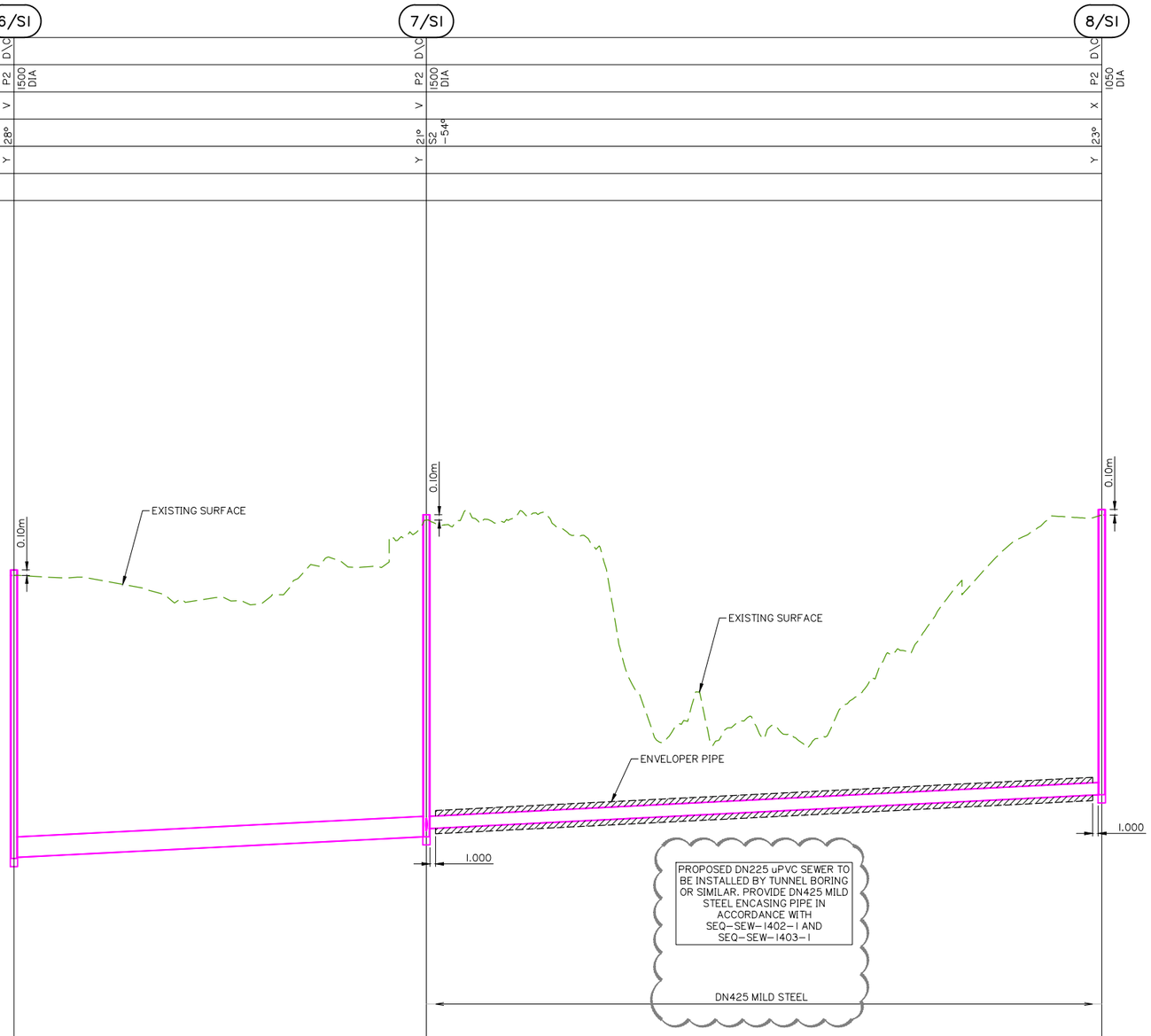
INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

▬ CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH



ENVELOPER PIPE SIZE (mm), CLASS

DATUM RL	–3.000		
PROPERTY DESCRIPTION			
PIPE SIZE (mm), CLASS	DN375 uPVC DWV SN8	DN225 uPVC DWV SN8	
GRADE (1 IN X) CTR – CTR	1 IN 200	1 IN 200	
LENGTH	75.925	124.325	
EMBEDMENT TYPE			
PIPE GRADE (%)	0.500%	0.500%	
DEPTH TO INVERT	5.207 / 5.187	5.824 / 5.674	5.147
INVERT LEVEL	1.649 / 1.669	2.048 / 2.198	2.820
FINISHED SURFACE LEVEL	6.956	7.972	8.067
EXISTING SURFACE LEVEL	6.856	7.872	7.967
CHAINAGE	565.515	641.439	765.764

LINE SI

SEWER LONGITUDINAL SECTIONS SHEET 4 OF 7

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Client:

FRASERS PROPERTY

FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

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NOT FOR CONSTRUCTION

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

SEWER LONGITUDINAL SECTIONS SHEET 4 OF 7

Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER SECTION UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 613 Rev. No: E

MAINTENANCE HOLE / SHAFT No.	8/S1	9/S1	10/S1
MH / MS COVER TYPE	D\C	D\C	D\C
MH / MS TYPE	P2 1050 DIA	P2 1050 DIA	P2 1200 DIA
MH / MS DROP TYPE	X	V	V
LINE DEFLECTION & BRANCHES	23°	– 12°	– 38°
INTERNAL CORROSION PROECTION	Y	Y	Y
PROPERTY CONNECTION TYPE			

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ–SEW–1303–1

RIGS STRUCTURE LIDS	
B	NON–TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN–SITU MAINTENANCE HOLE WITH CAST IN–SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1
(P3)	PRE–CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ–SEW–1300–1

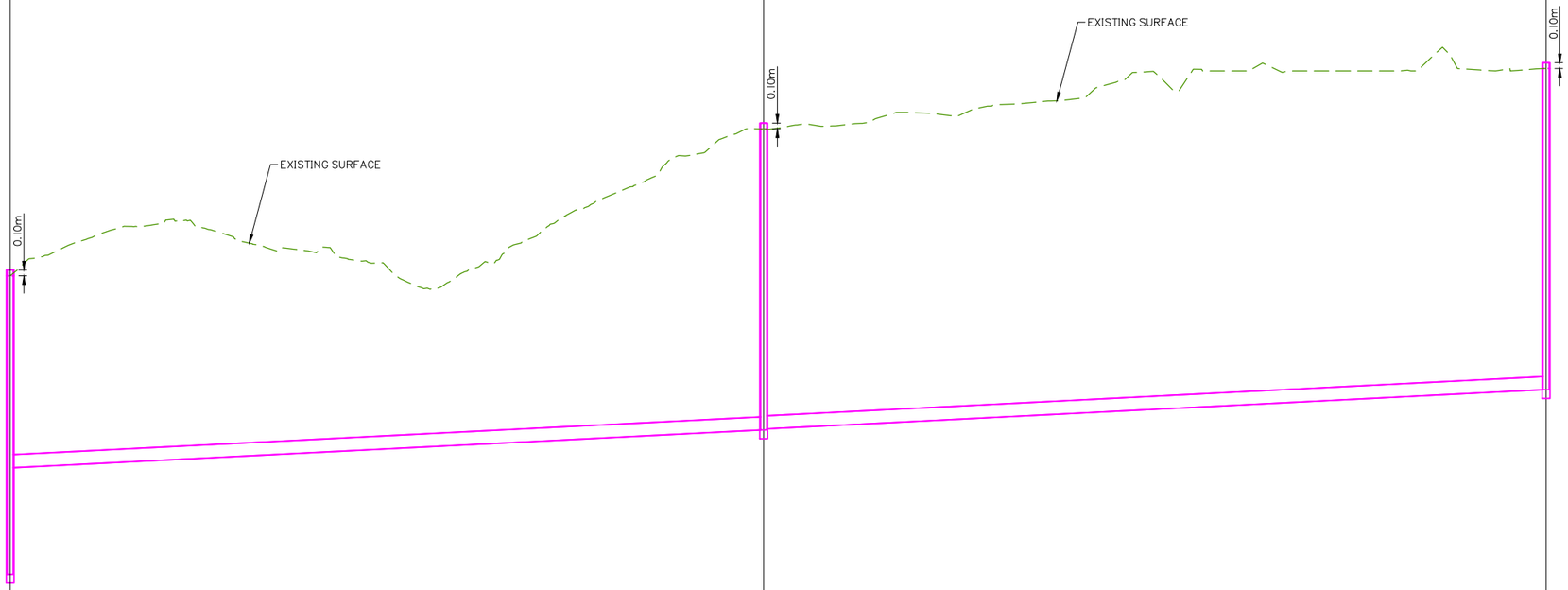
RIGS GENERAL NOTES	
1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2	ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3	PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ–SEW–1201–1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ–SPS–1407–1–A & 2–B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON–CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON–CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ–SEW–1308–1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

— CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH



DATUM RL	– 1.000		
PROPERTY DESCRIPTION			
PIPE SIZE (mm), CLASS	DN225 uPVC DWV SN8		DN225 uPVC DWV SN8
GRADE (1 IN X) CTR – CTR	1 IN 200		1 IN 200
LENGTH	130.040		135.026
EMBEDMENT TYPE			
PIPE GRADE (%)	0.500%		0.500%
DEPTH TO INVERT	5.147 / 3.308	5.192 / 5.172	5.538
INVERT LEVEL	2.820 / 4.659	5.309 / 5.329	6.004
FINISHED SURFACE LEVEL	8.067	10.601	11.642
EXISTING SURFACE LEVEL	7.967	10.501	11.542
CHAINAGE	765.764	895.805	1030.831

LINE S1

SEWER LONGITUDINAL SECTIONS SHEET 5 OF 7

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Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
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 5 OF 7

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 614
Rev. No: D

MAINTENANCE HOLE / SHAFT No.		10/S1	11/S1	S21/5
MH / MS COVER TYPE	D/C	D/C	D/C	D/C
MH / MS TYPE	P2 1200 DIA		P2 1050 DIA	C
MH / MS DROP TYPE	V	V	V	V
LINE DEFLECTION & BRANCHES	-38°		66°	
INTERNAL CORROSION PROECTION	Y		Y	
PROPERTY CONNECTION TYPE				

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1

RIGS STRUCTURE LIDS	
B	NON-TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES	
(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1

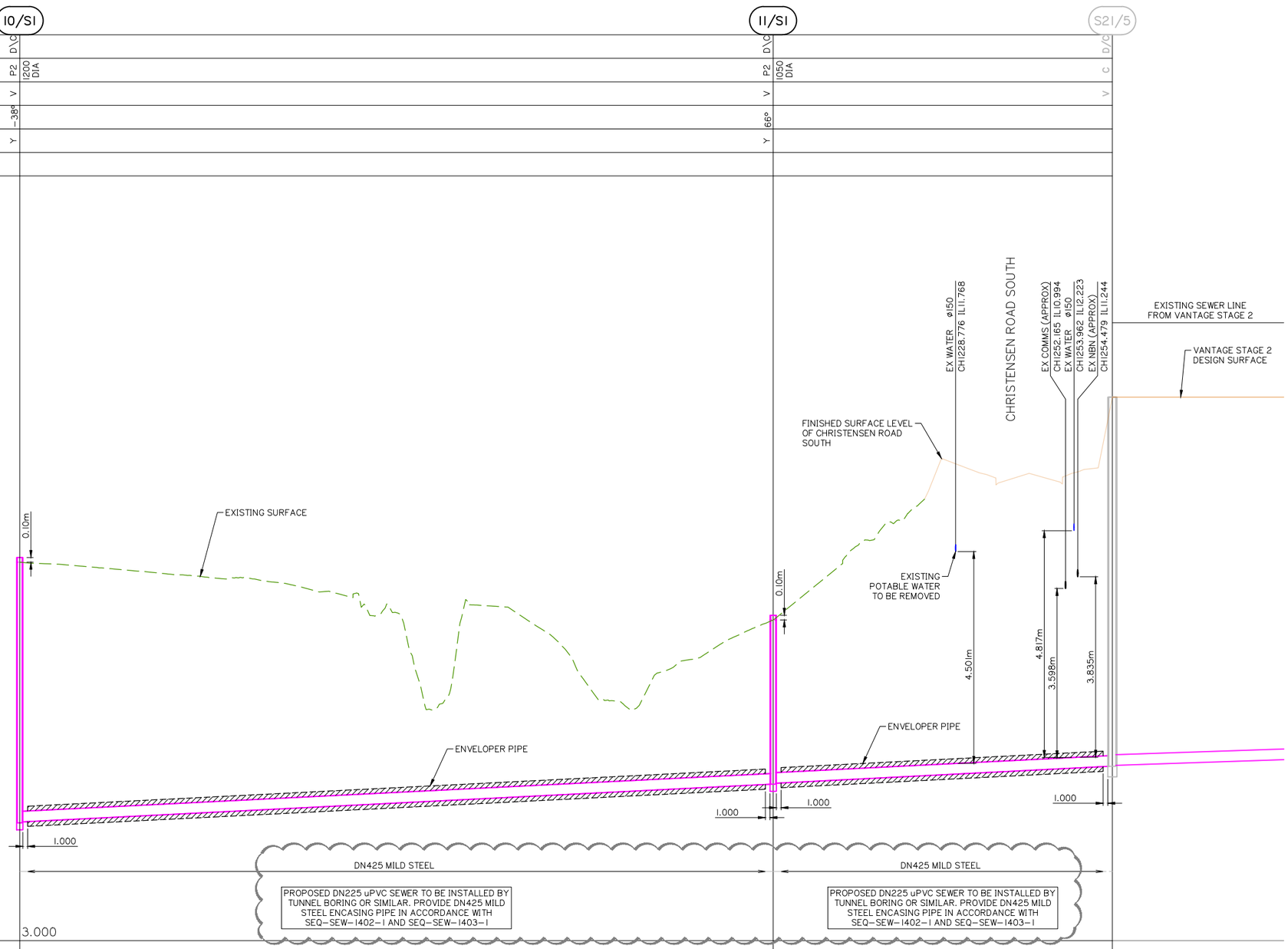
RIGS GENERAL NOTES	
1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
2	ALL PIPES TO BE INSTALLED WITH TRACER WIRE.
3	PN20 PE100 PIPES TO BE INTERNAL WHITE WALLED WITH WALL THICKNESS DESIGNED FOR INSTALLATION FORCES.
4	BUTT WELDED JOINTS ARE MANDATORY FOR MICROTUNNELING WHERE CONTINUOUS PIPES ON COIL ARE NOT AVAILABLE.
5	EMBEDMENT TYPES AS INDICATED ON LONGITUDINAL SECTIONS AND SEQ-SEW-1201-1
6	CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF PIPEWORK.
7	POLYETHYLENE (PE) LINING TO BE INSTALLED TO ALL MAINTENANCE STRUCTURES. REFER LONGITUDINAL SECTIONS. REFER ALSO SEQ-SPS-1407-1-A & 2-B
8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
9	ALL MAINTENANCE HOLES WHERE TRAFFICABLE LIDS ARE SPECIFIED TO BE COMPOSITE LIDS AND FRAMES (NON-CORROSIVE). FOR ALL MANHOLES WHERE INTERNAL PROTECTION COATINGS ARE REQUIRED AS PER CLAUSE 7.6.2(I) TO (VII) OF THE SEWERAGE CLAUSE. REFER SEQ CIVIL IPAM LIST.

MANHOLE COVERS AND SURROUNDS:

INSTALL ALL SEWER MAINTENANCE STRUCTURE CLASS D TRAFFICABLE LIDS WITH COMPOSITE LIDS (NON-CORROSIVE) AND FRAMES IN ACCORDANCE WITH SEWERAGE STANDARD DRAWING SEQ-SEW-1308-1, 9, 10, 11.

INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

— CONSTRUCT BRIDGING STRUCTURE SPANNING THE SEWER TRENCH



ENVELOPER PIPE SIZE (mm), CLASS

DATUM RL	3.000			
PROPERTY DESCRIPTION				
PIPE SIZE (mm), CLASS	DN225 uPVC DWV SN8		DN225 uPVC DWV SN8	DN225 uPVC DWV SN8
GRADE (1 IN X) CTR – CTR	1 IN 200		1 IN 200	1 IN 300
LENGTH	160.199		72.119	92.812
EMBEDMENT TYPE				TYPE 4
PIPE GRADE (%)	0.500%		0.500%	0.333%
DEPTH TO INVERT	5.538 / 5.518		3.489 / 3.469	7.843 / 6.974
INVERT LEVEL	6.004 / 6.024		6.825 / 6.845	7.206 / 7.226
FINISHED SURFACE LEVEL	11.642		10.414	15.049
EXISTING SURFACE LEVEL	11.542		10.314	14.353
CHAINAGE	1030.831		1191.029	1263.148

LINE S1 LINE 5

SEWER LONGITUDINAL SECTIONS SHEET 6 OF 7

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Client:

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FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
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 6 OF 7

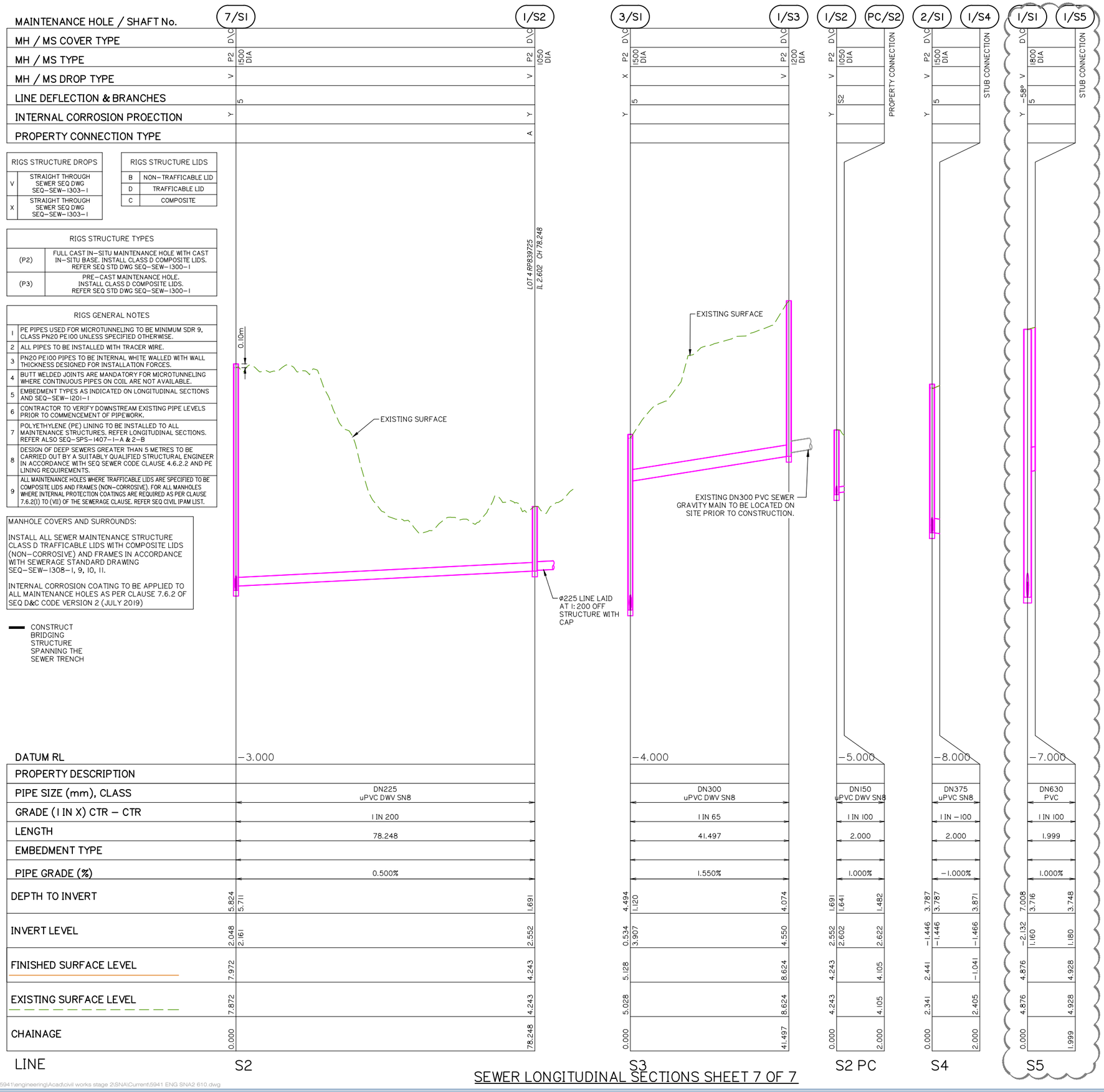
Issue	Date	Description	DRN	CHK
E	14-08-2023	SEWER SECTION UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	14-08-2023

Drawing No: 5941 ENG SNA2 615
Rev. No: E



RIGS STRUCTURE DROPS

V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-1

RIGS STRUCTURE LIDS

B	NON-TRAFFICABLE LID
D	TRAFFICABLE LID
C	COMPOSITE

RIGS STRUCTURE TYPES

(P2)	FULL CAST IN-SITU MAINTENANCE HOLE WITH CAST IN-SITU BASE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-1

RIGS GENERAL NOTES

1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 9, CLASS PN20 PE100 UNLESS SPECIFIED OTHERWISE.
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8	DESIGN OF DEEP SEWERS GREATER THAN 5 METRES TO BE CARRIED OUT BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER IN ACCORDANCE WITH SEQ SEWER CODE CLAUSE 4.6.2.2 AND PE LINING REQUIREMENTS.
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INTERNAL CORROSION COATING TO BE APPLIED TO ALL MAINTENANCE HOLES AS PER CLAUSE 7.6.2 OF SEQ D&C CODE VERSION 2 (JULY 2019)

SEWER LONGITUDINAL SECTIONS SHEET 7 OF 7

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Client:

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FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address: 60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

THIS DRAWING IS INTENDED TO BE PRINTED IN COLOUR

RPD:

Lot:	501
Plan:	SP295994
Local Authority:	CITY OF GOLD COAST COUNCIL
Level Datum:	AHD
Meridian:	-
Contour Interval:	-
PSM:	-
RL:	-

ISSUED FOR APPROVAL
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DRAWING TITLE

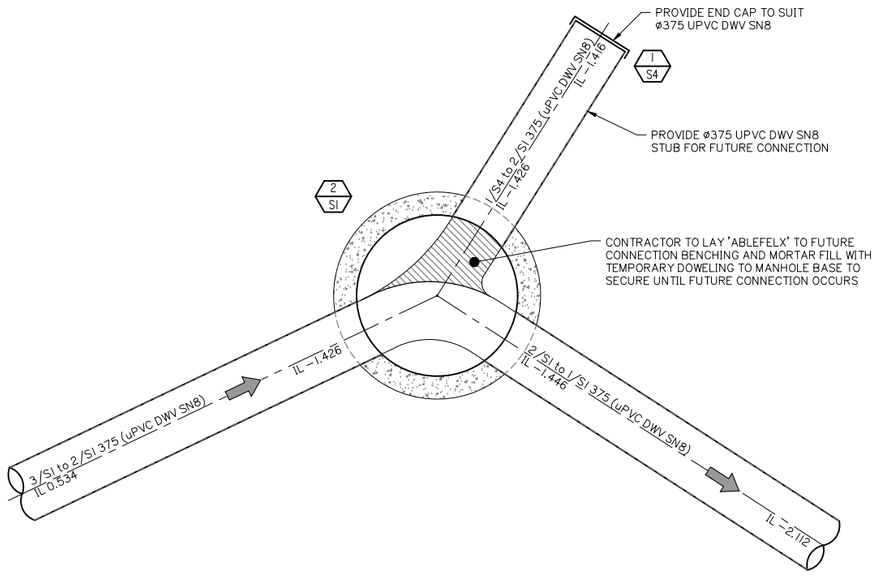
SEWER LONGITUDINAL SECTIONS SHEET 7 OF 7

Issue	Date	Description	DRN	CHK
F	05-10-2023	S5 AMENED	JH	MG
E	14-08-2023	LINES S4 AND S5 ADDED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

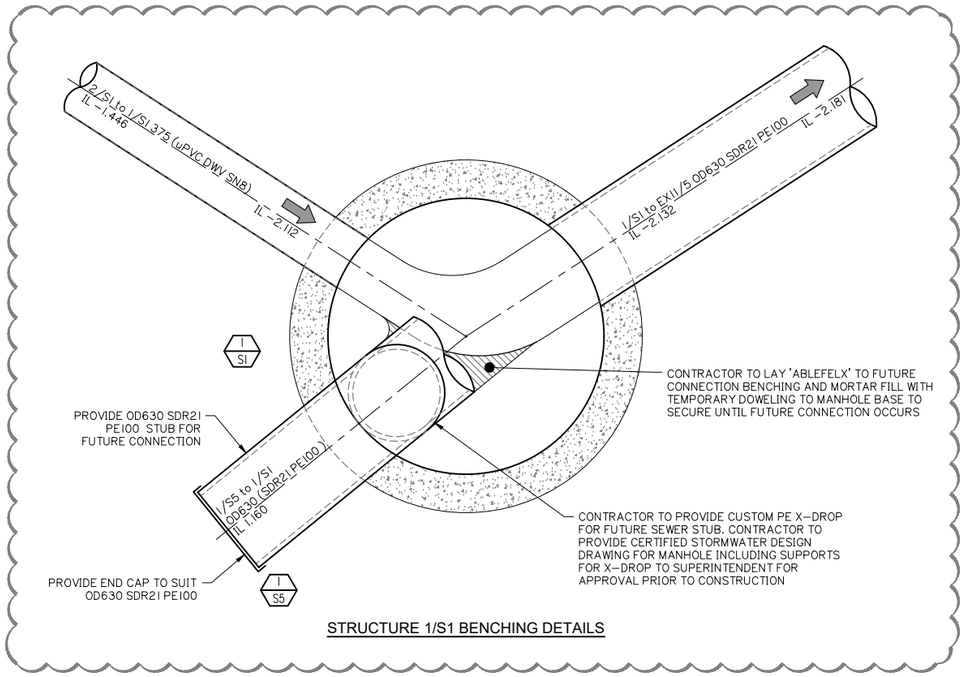
Scale 1:500 - Lengths are in Metres.
0 5 10 15 20 25 30 35 40

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:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05-10-2023
Drawing No:	5941 ENG SNA2 616
Rev. No:	F



STRUCTURE 2/S1 BENCHING DETAILS



STRUCTURE 1/S1 BENCHING DETAILS

STRUCTURE BENCHING DETAILS

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RPD:

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Contour Interval:	-
PSM:	-
RL:	-

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DRAWING TITLE

STRUCTURE BENCHING DETAILS

Issue	Date	Description	DRN	CHK
B	05-10-2023	DETAIL UPDATED	JH	MG
A	14-08-2023	ORIGINAL ISSUE	LAB	MG

Scale 1:20 - Lengths are in Metres.
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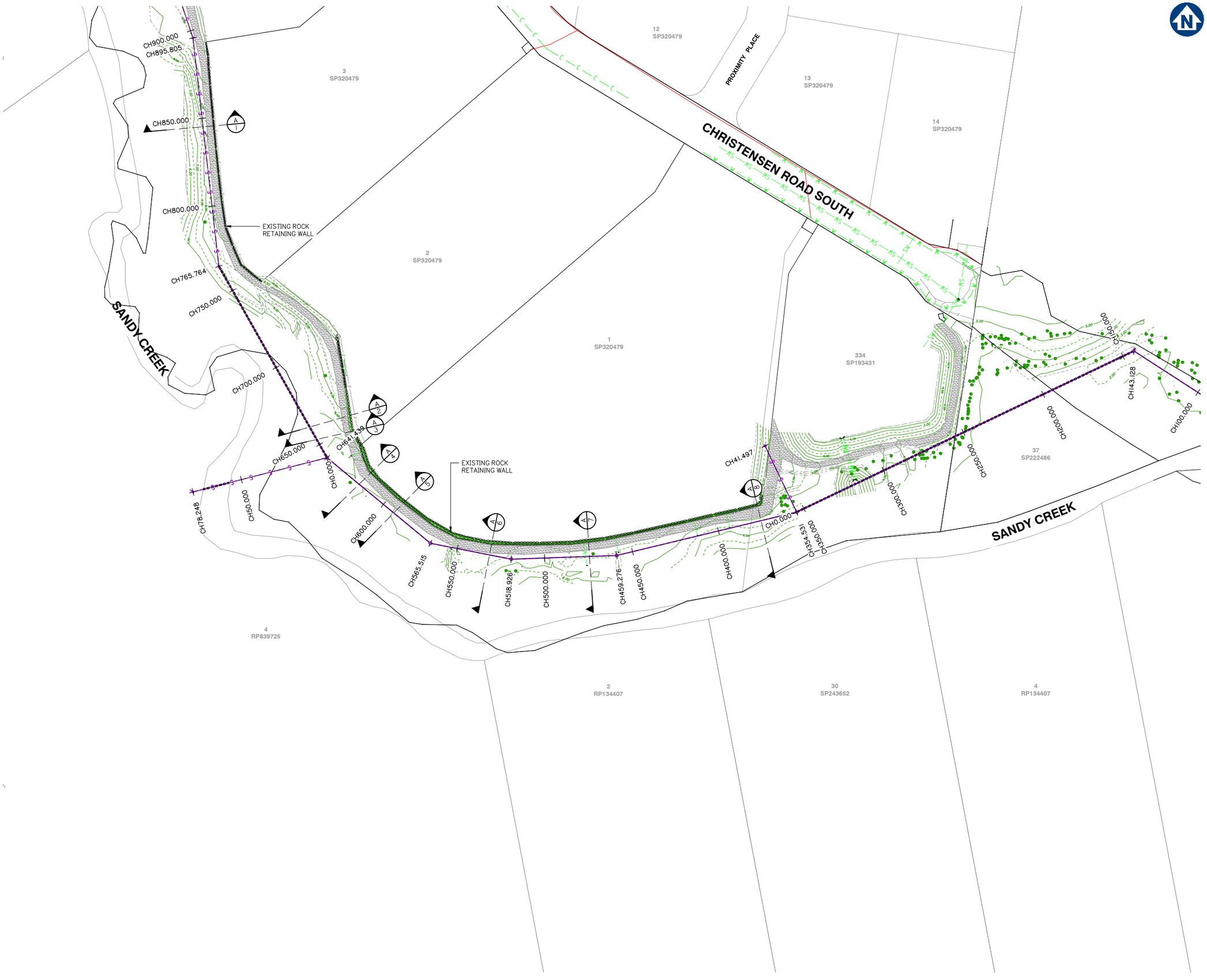
Scale at A1:	1:500 (H) 1:50 (V)
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	05-10-2023

Drawing No: 5941 ENG SNA2 617
Rev. No: B



EXISTING RETAINING WALL LAYOUT PLAN

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Project:
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ISSUED FOR APPROVAL
NOT FOR CONSTRUCTION

ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

EXISTING RETAINING WALL LAYOUT PLAN

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

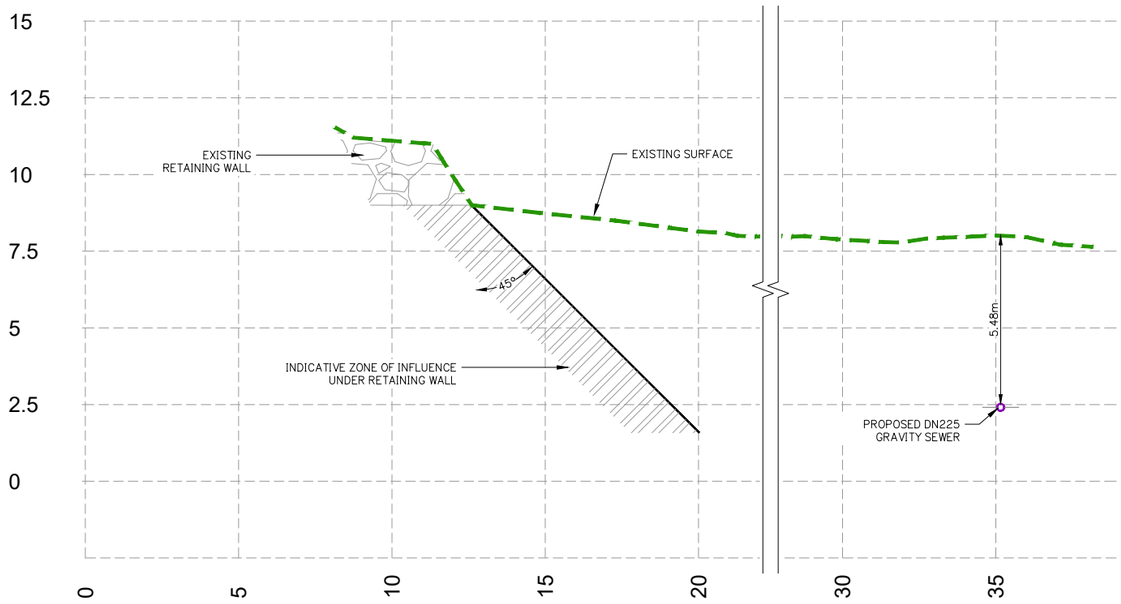
SCALE IN METRES

0 20 40 60 80 100

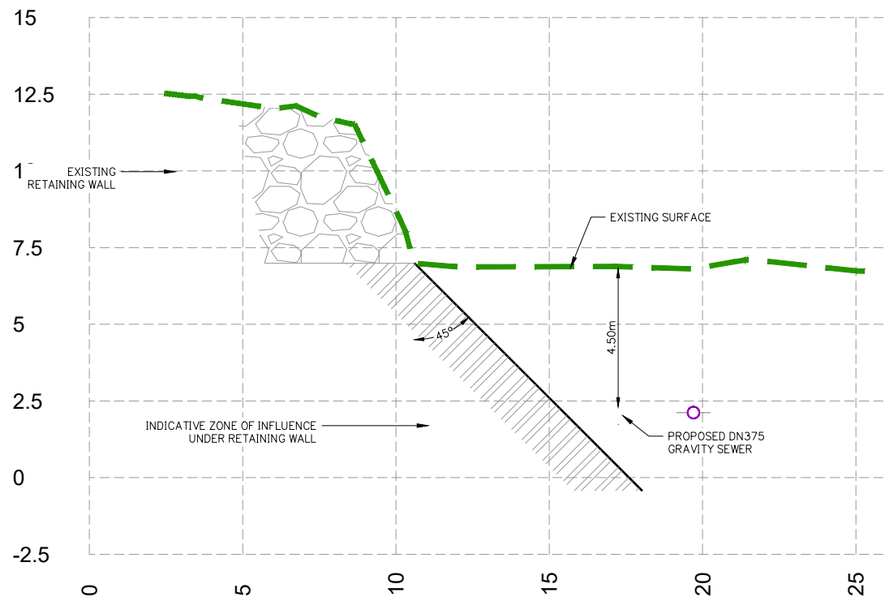
1:1000 (FULL SIZE A1)
1:2000 (HALF SIZE A3)

Scale at A1:	1:1000
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 620
Rev. No: D



SECTION
SCALE 1: 100
2
620



SECTION
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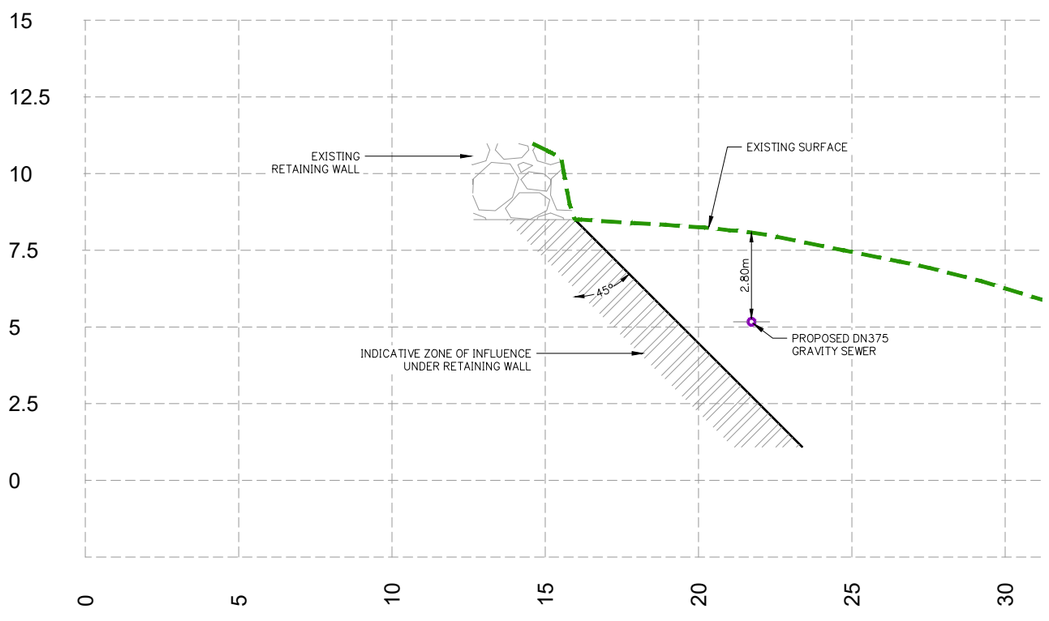
620



SECTION
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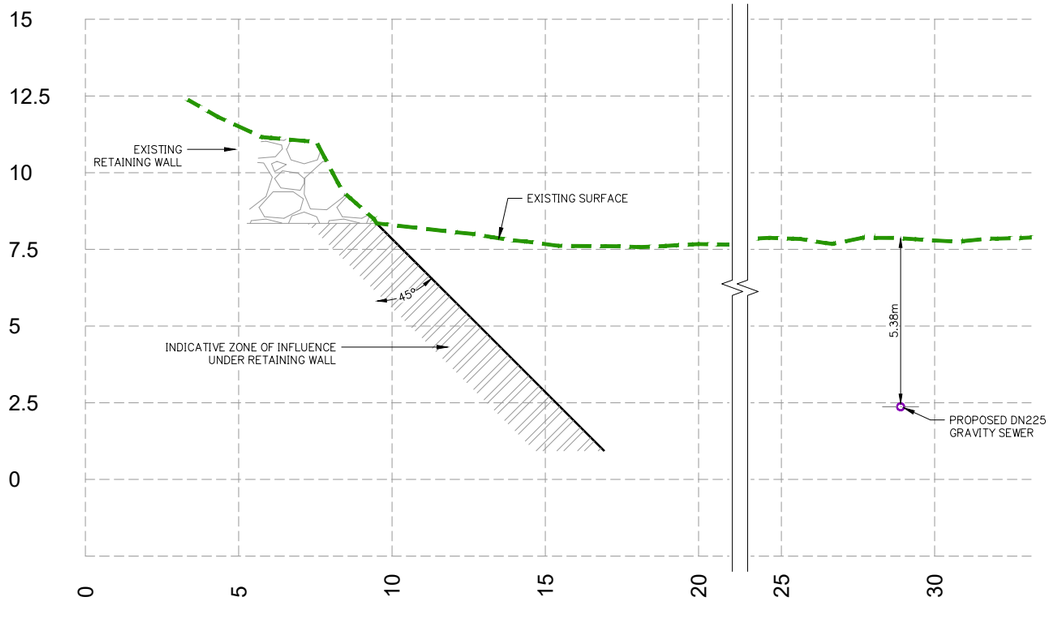

SECTION
SCALE 1: 100
3
620

NOTE: FORM 16 INSPECTION CERTIFICATE OF EXISTING WALL REQUIRES FOR CONTRACTOR TO MAKE ASSESSMENT THAT FOOTING IS OUTSIDE "DEG" ZONE.

EXISTING RETAINING WALL SECTIONS SHEET 1 OF 2

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Project:
TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

Site Address:
60 STAPYLTON JACOBS WELL ROAD, STAPYLTON QLD 4207

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

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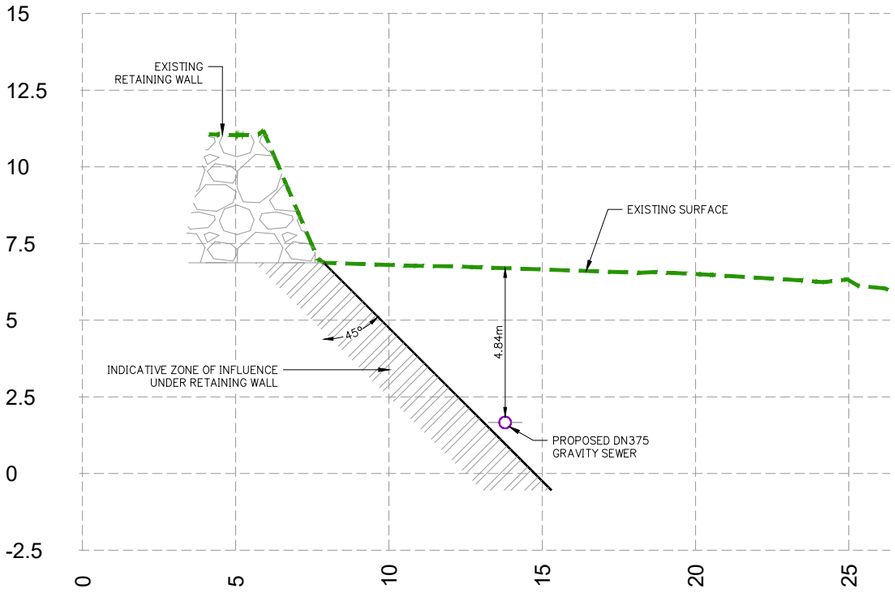
EXISTING RETAINING WALL SECTIONS SHEET 1 OF 2

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

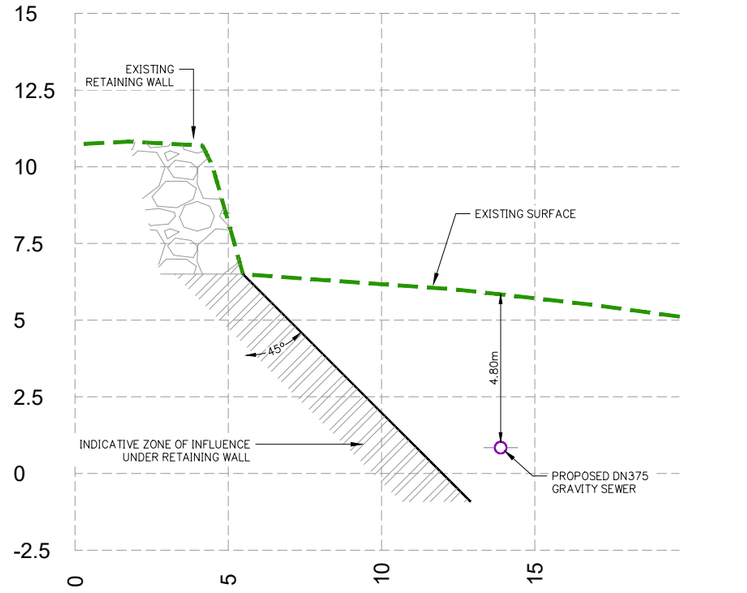
SCALE IN METRES
0 2 4 6 8 10
1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1:	1:100
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 621
Rev. No: D



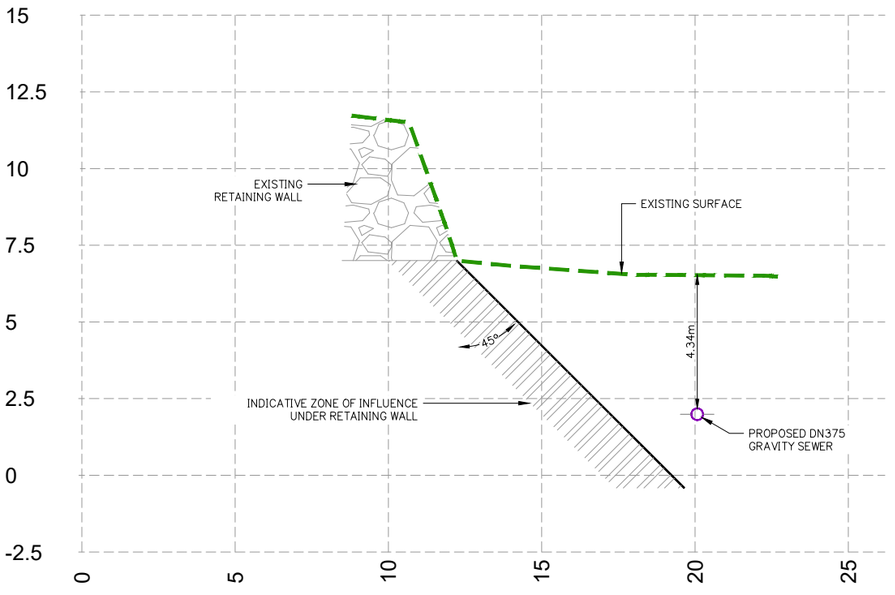
SECTION
SCALE 1: 100
6 / 620



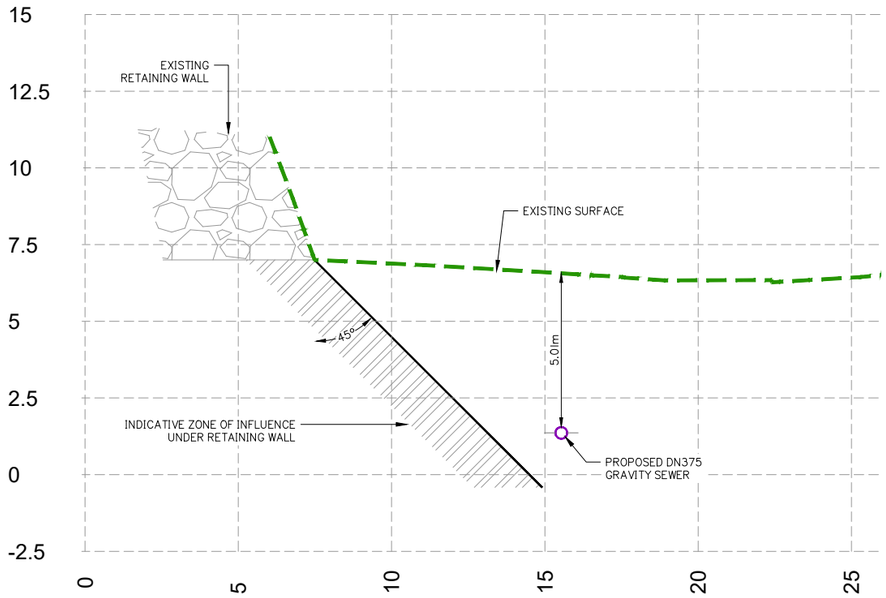
DATUM RL -10.300

SECTION
SCALE 1: 100
8 / 620

NOTE: FORM 16 INSPECTION CERTIFICATE OF EXISTING WALL REQUIRES FOR CONTRACTOR TO MAKE ASSESSMENT THAT FOOTING IS OUTSIDE "DEG" ZONE.



SECTION
SCALE 1: 100
5 / 620



SECTION
SCALE 1: 100
7 / 620

EXISTING RETAINING WALL SECTIONS SHEET 2 OF 2

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EXISTING RETAINING WALL SECTIONS SHEET 2 OF 2

Issue	Date	Description	DRN	CHK
D	26-07-2023	SEWER UPDATED	JH	MG
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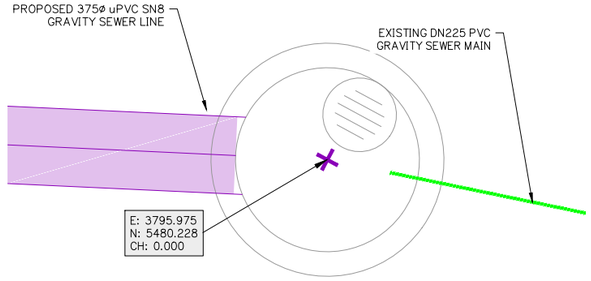
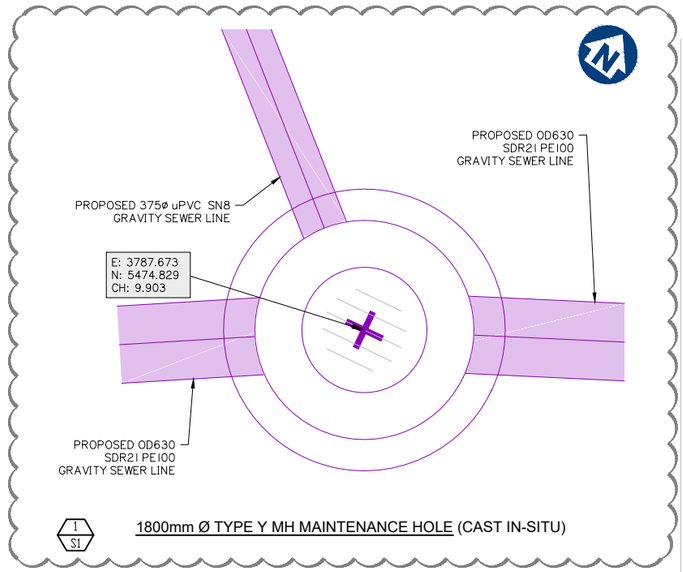
SCALE IN METRES
0 2 4 6 8 10
1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1:	1:100
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

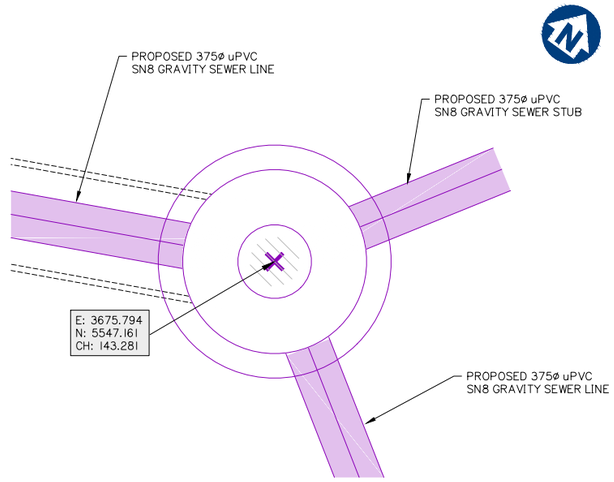
Drawing No: 5941 ENG SNA2 622
Rev. No: D



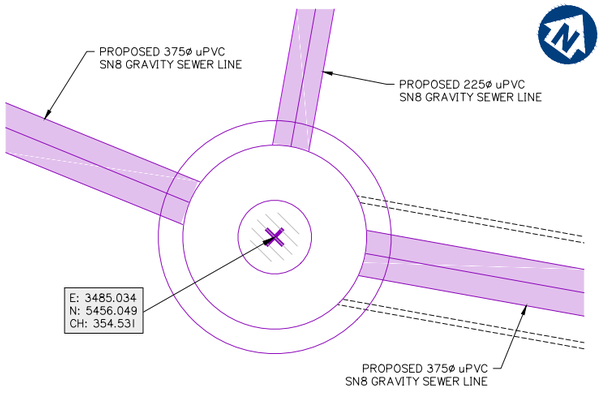
EXIT 5 — 1500mm Ø EXISTING MAINTENANCE HOLE



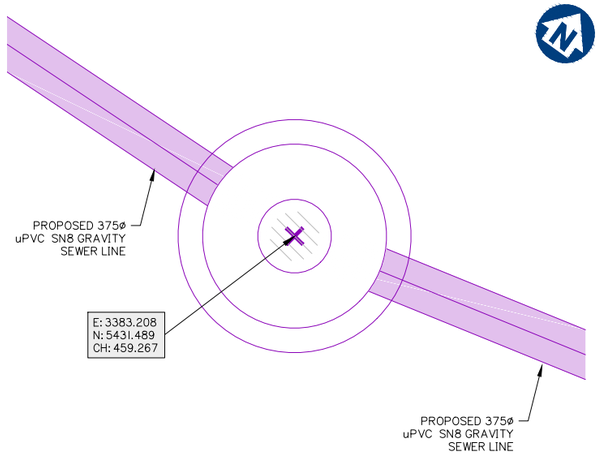
1 S1 — 1800mm Ø TYPE Y MH MAINTENANCE HOLE (CAST IN-SITU)



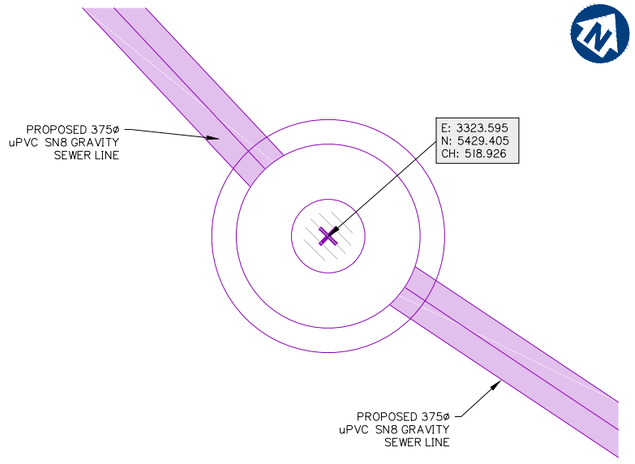
2 S1 — 1500mm Ø TYPE C MH MAINTENANCE HOLE (CAST IN-SITU)



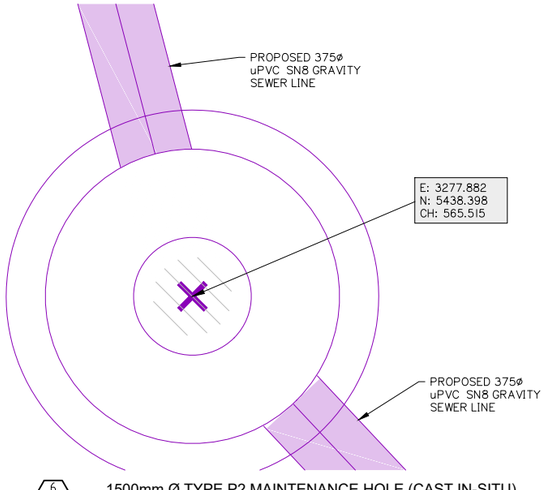
3 S1 — 1500mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)



4 S1 — 1500mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)



5 S1 — 1500mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)



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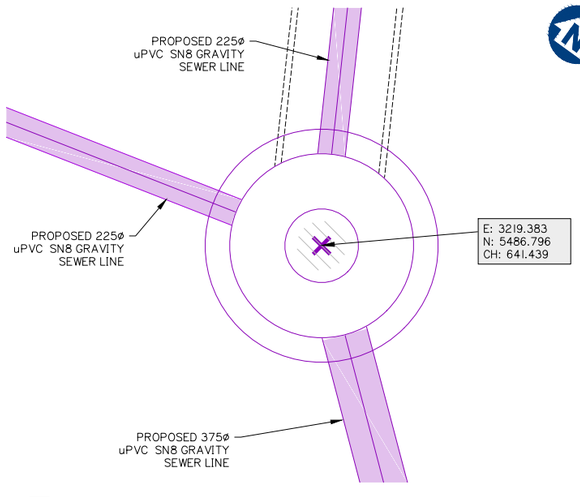
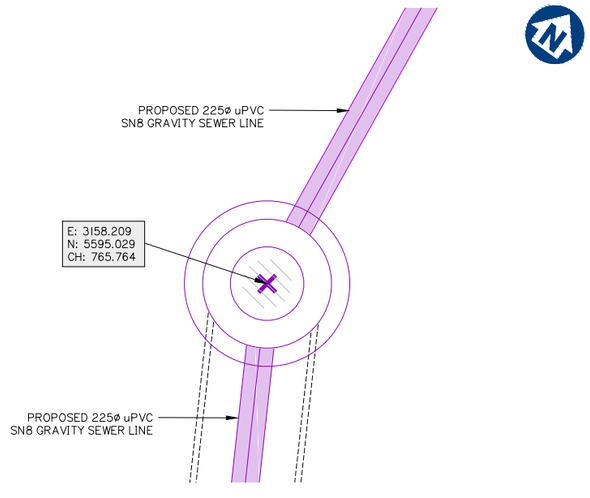


7 S1 — 1500mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)



8 S1 — 1050mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

SEWER STRUCTURE DETAILS SHEET 1 OF 3

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Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

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SEWER STRUCTURE DETAILS SHEET 1 OF 3

Issue	Date	Description	DRN	CHK
F	14-09-2023	DETAILS UPDATED	JH	MG
E	14-08-2023	DETAILS UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
C	10-11-2022	SEWER UPDATED	JH	MG
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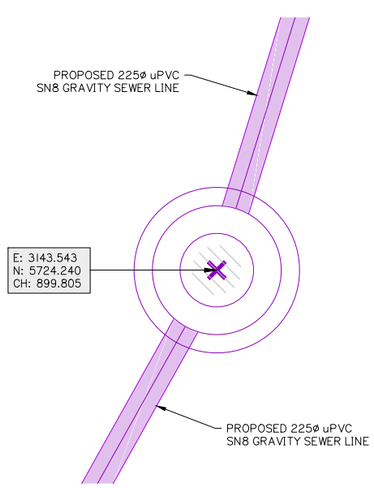
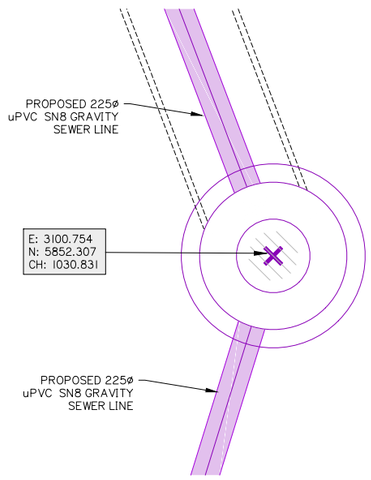
Scale at A1:	N.T.S
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 650
Rev. No: F



9 / S1 1050mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)



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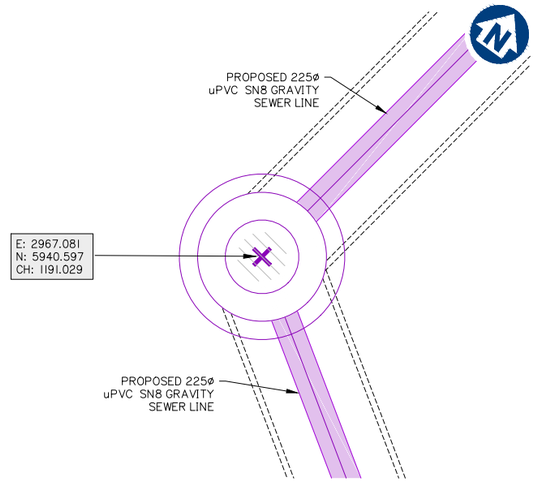

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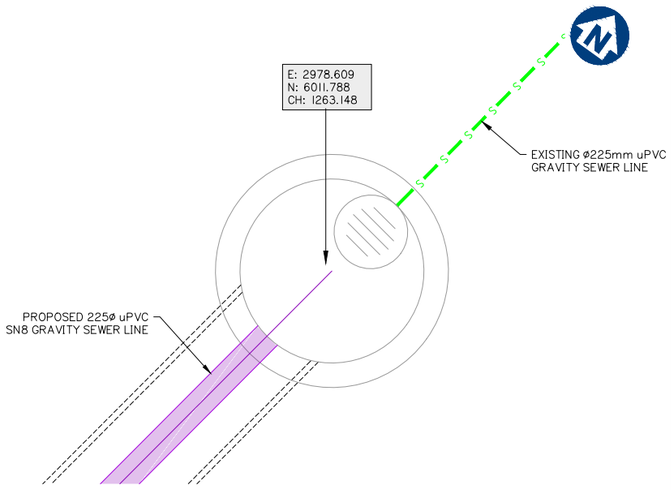
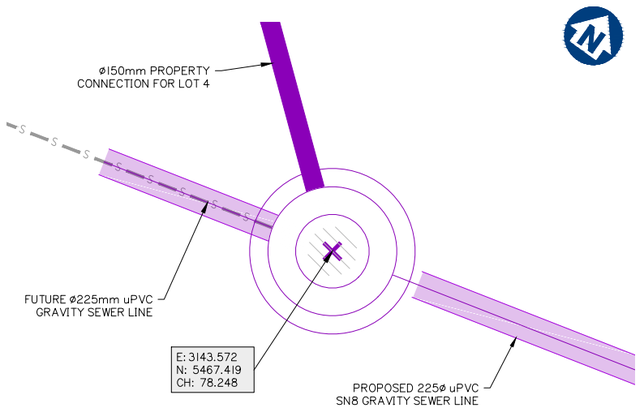


S21 / 5 1500mm Ø STAGE 2 EXISTING MAINTENANCE HOLE



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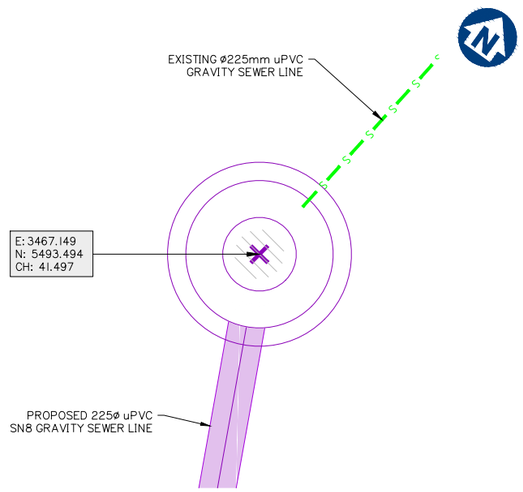

1 / S3 1200mm Ø TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

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Project: TRUNK GRAVITY SEWER - VANTAGE YATALA STAGE 2

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SEWER STRUCTURE DETAILS SHEET 2 OF 3

Issue	Date	Description	DRN	CHK
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Scale at A1:	N.T.S
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

Drawing No: 5941 ENG SNA2 651
Rev. No: D