

OPERATIONAL WORKS APPLICATION FOR TRUNK SEWER INFRASTRUCTURE

CoGC STAPYLTON XGMA10 & 11 GRAVITY SEWER VANTAGE YATALA

This approval endorses Trunk Sewer
Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

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CLIENT / APPLICANT:



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. 594I ENG SNA2 001 – REV P

FEBRUARY 2025

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 STOCK LEVEL.
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-SREADING.
11. **GRASSING / SEEDING**
ALL CUT & FILL AREAS AND DISTURBED AREAS SHALL BE GRASSED OR SEEDDED 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 SEEDDED, 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 OPT'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.



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



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 CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

GENERAL NOTES

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	
Issue	Date	Description	DRN	CHK	

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

GENERAL NOTES



! 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.

This approval endorses Trunk Sewer
Works and Vegetation Clearing

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Dated: 25 June 2025

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VANTAGE YATALA
STAGE 2

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60 STAPYLTON JACOBS WELL
ROAD, STAPYLTON QLD 4207

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Lot: 501
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Local Authority: CITY OF GOLD COAST
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Level Datum: AHD
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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

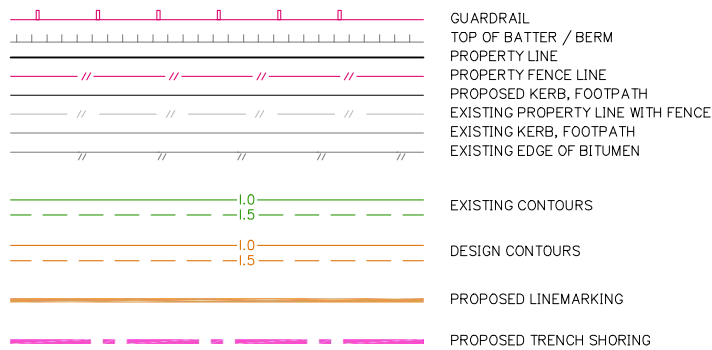
LEGEND

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
Issue	Date	Description	DRN	CHK

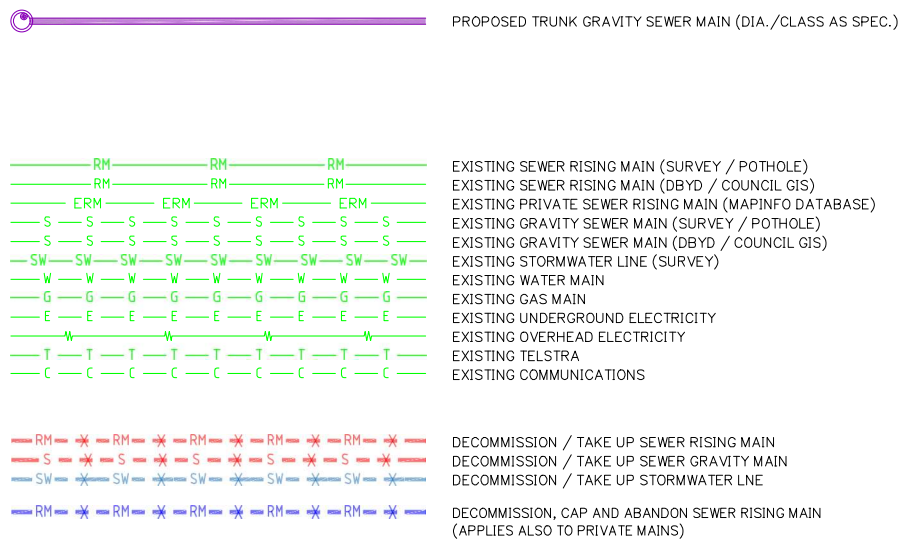
Scale at A1:	NTS
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	26-07-2023

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

FEATURE LEGEND



SERVICES LEGEND



SURVEY SYMBOLS LEGEND



PIPE CHAINAGE KEY PLAN FOR DWG 600 SERIES PLANS

This approval endorses Trunk Sewer
Works and Vegetation Clearing

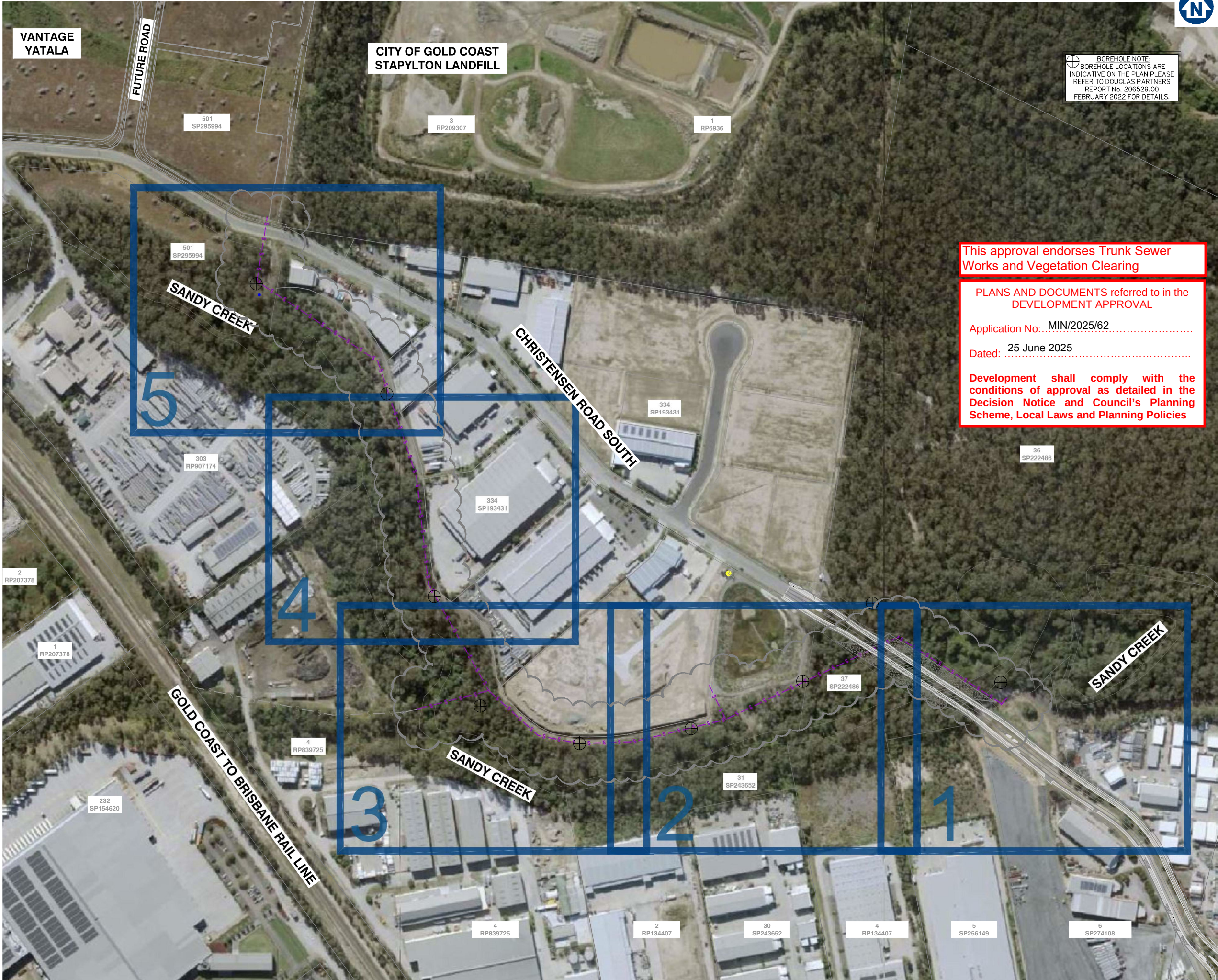
PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

LEGEND



BOREHOLE NOTE:
BOREHOLE LOCATIONS ARE
INDICATIVE ON THE PLAN PLEASE
REFER TO DOUGLAS PARTNERS
REPORT No. 206529.00
FEBRUARY 2022 FOR DETAILS.

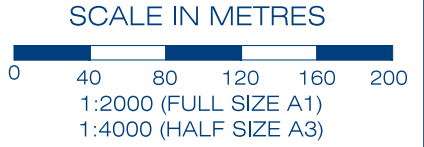
This approval endorses Trunk Sewer
Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62
Dated: 25 June 2025

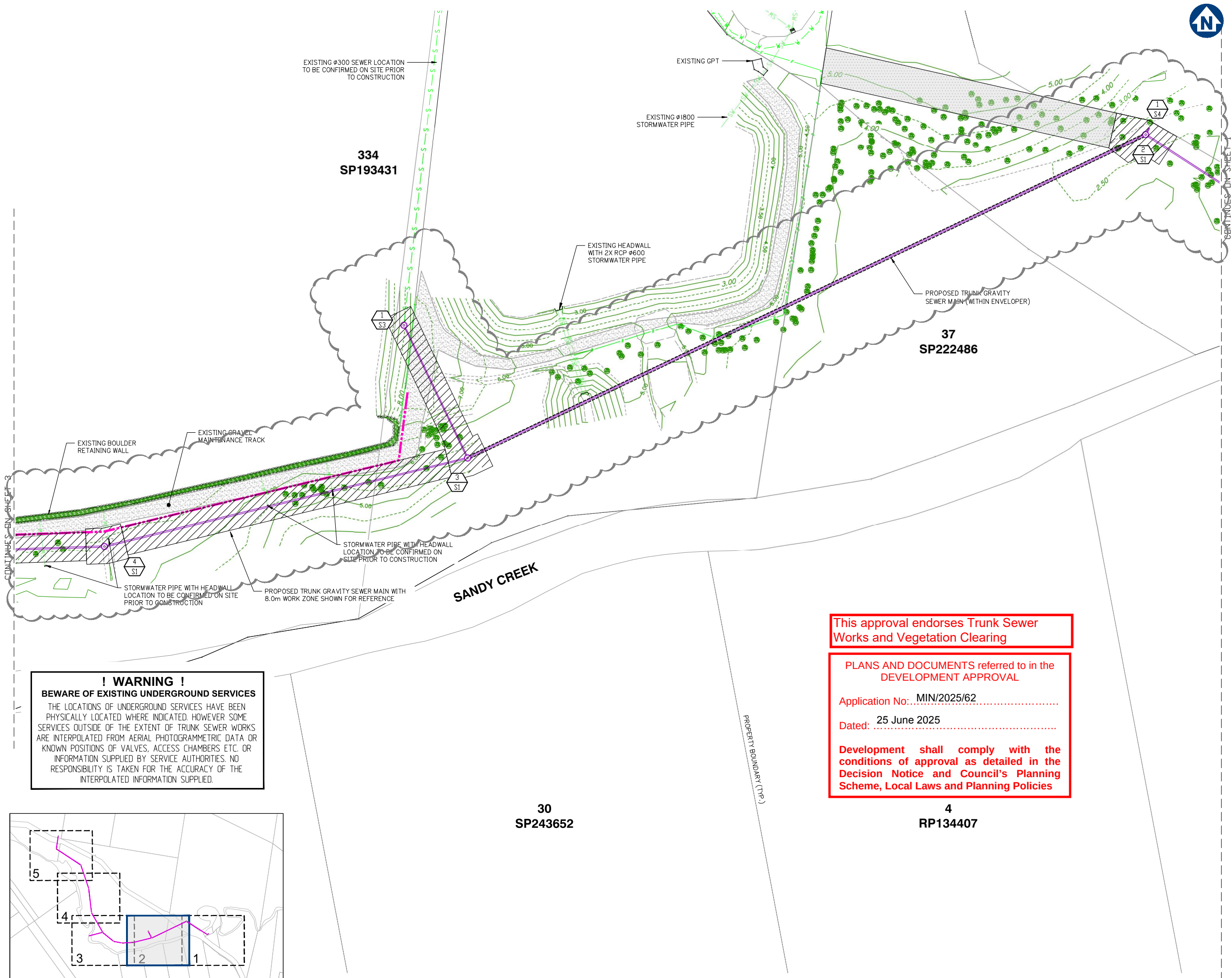
Development shall comply with the
conditions of approval as detailed in the
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Scheme, Local Laws and Planning Policies

Issue	Date	Description	DRN	CHK
H	17-02-2025	SEWER LAYOUT UPDATED	JH	MG
G	20-06-2024	SEWER LAYOUT UPDATED	JH	MG
F	19-02-2024	SEWER LAYOUT UPDATED	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
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

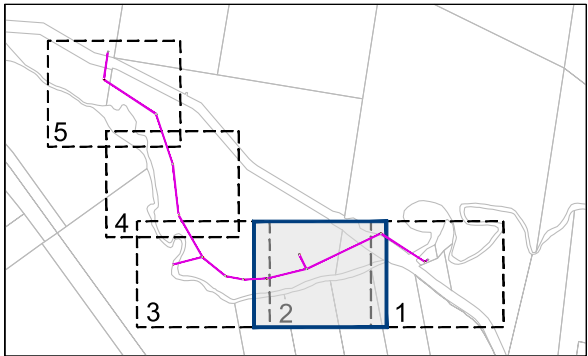


Scale at A1:	1:2000
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025





! 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

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



Client:



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 CONSTRUCTION

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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

CONTOURS AND DETAILS
PLAN SHEET 2 OF 5

Issue	Date	Description	LAB	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	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
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

SCALE IN METRES



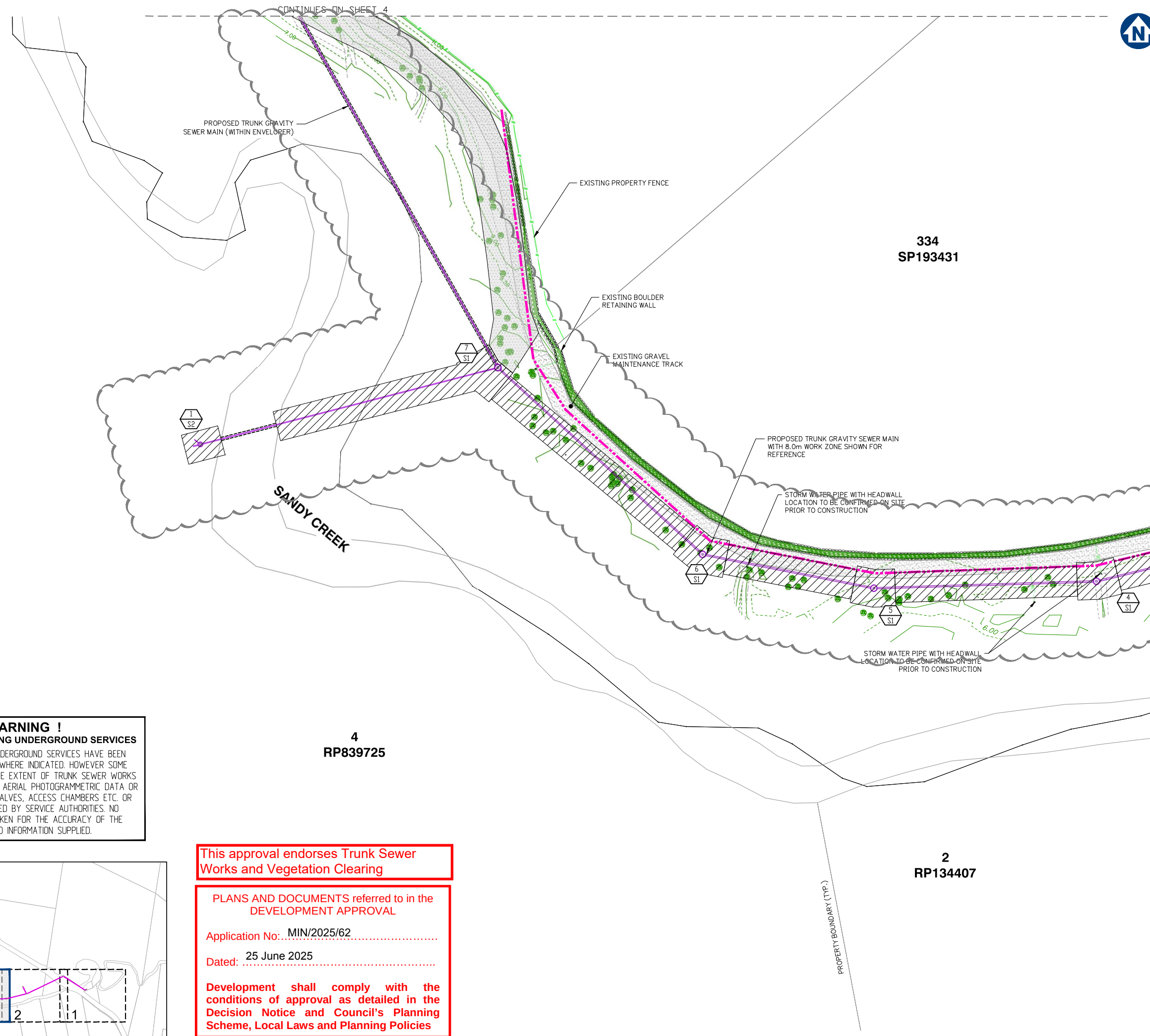
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Scale at A1: 1:500

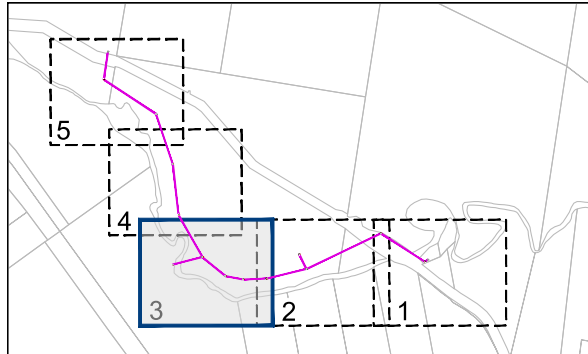
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No:
5941 ENG SNA2 011

Rev. No:
F



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KEY PLAN

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



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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RPD:

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

ISSUED FOR CONSTRUCTION

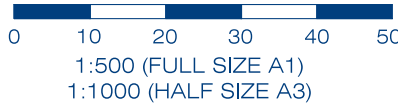
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DRAWING TITLE
CONTOURS AND DETAILS
PLAN SHEET 3 OF 5

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	JH	MG
E	20-06-2024	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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A	20-11-2021	ORIGINAL ISSUE	JH	MG

SCALE IN METRES

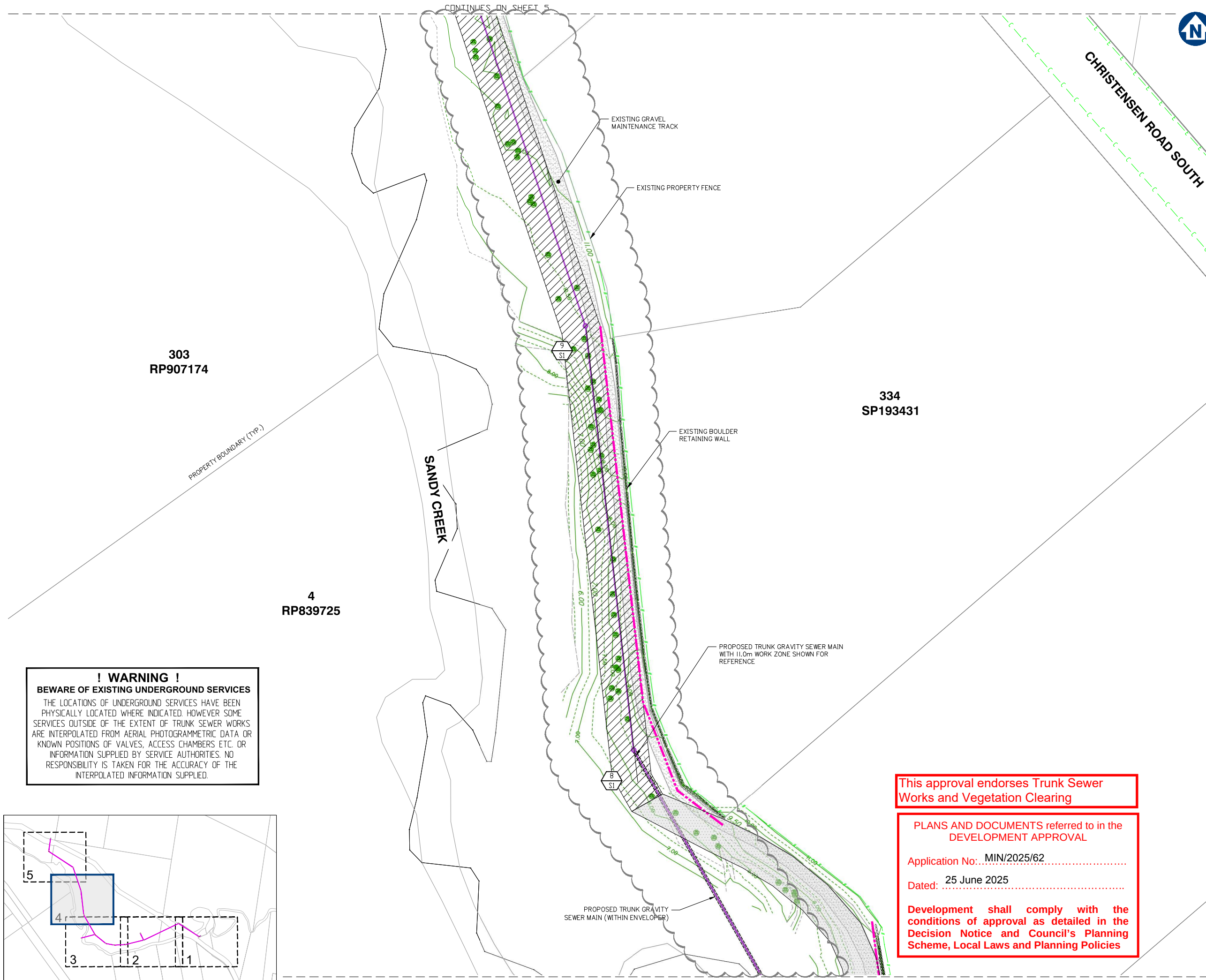


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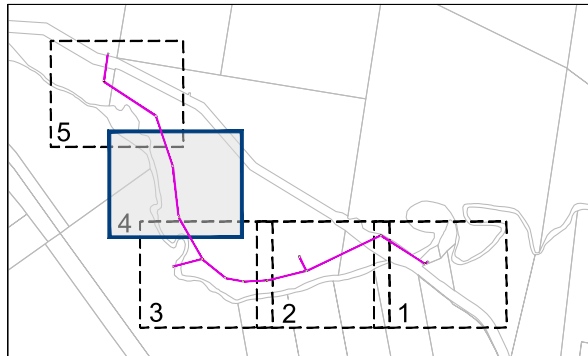
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No:
5941 ENG SNA2 012

Rev. No:
F



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BEWARE OF EXISTING UNDERGROUND SERVICES
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KEY PLAN



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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RPD:

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DRAWING TITLE

CONTOURS AND DETAILS
PLAN SHEET 4 OF 5

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	ML	MG
E	20-06-2024	SEWER LAYOUT 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



Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No: 5941 ENG SNA2 013
Rev. No: F



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

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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RPD:

Lot: 501
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DRAWING TITLE

CONTOURS AND DETAILS
PLAN SHEET 5 OF 5

Issue	Date	Description	LAB	MG	DRN	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	JH	MG		
E	17-01-2024	STRUCTURE 12/S1 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	JH	MG		
A	20-11-2021	ORIGINAL ISSUE	JH	MG		

SCALE IN METRES



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:	17-02-2025

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

VANTAGE
YATALA

3
RP209307

334
SP193431

334
SP193431

303
RP907174

! WARNING !
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This approval endorses Trunk Sewer
Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

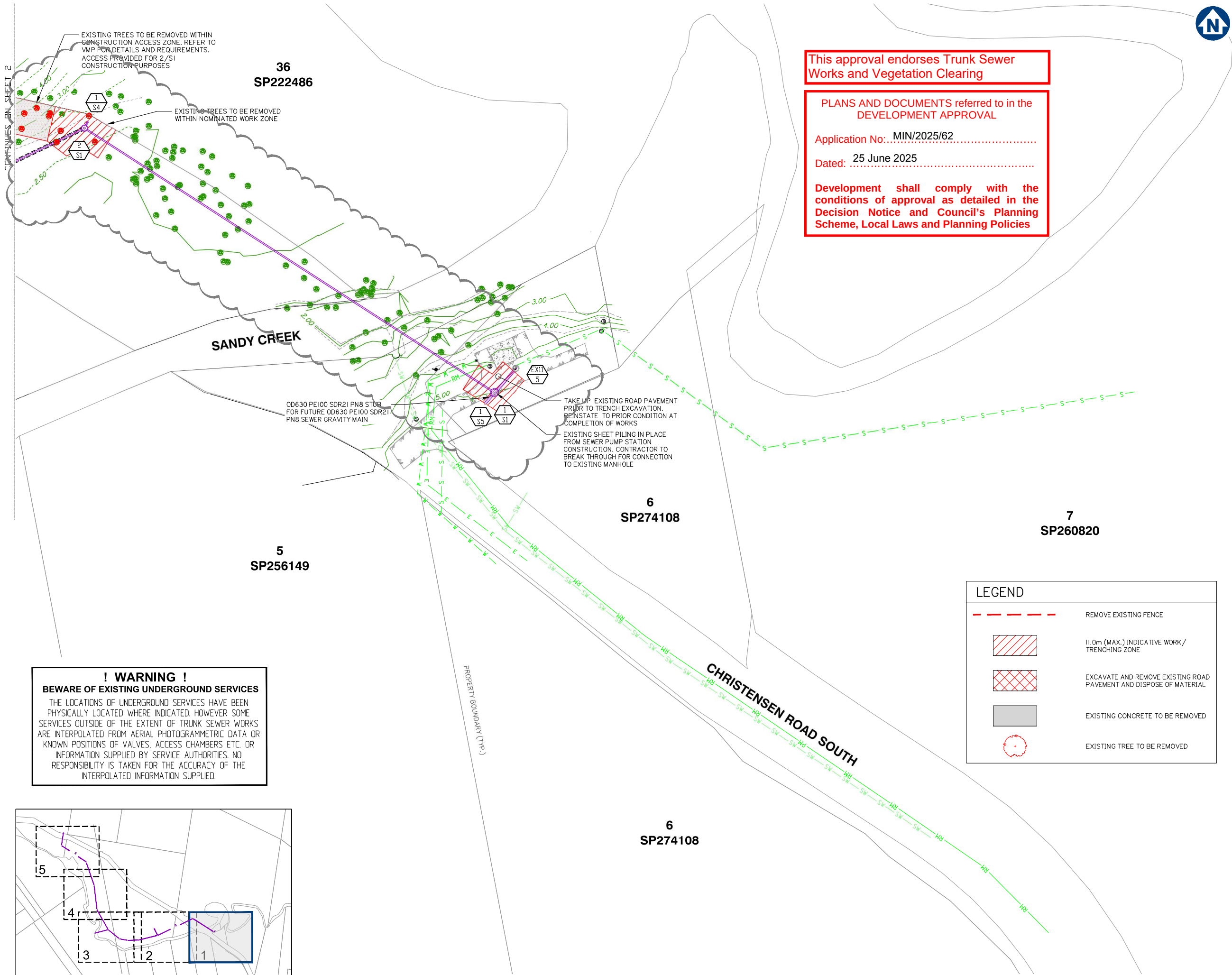
Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the
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KEY PLAN

CONTOURS AND DETAILS PLAN SHEET 5 OF 5



This approval endorses Trunk Sewer Works and Vegetation Clearing

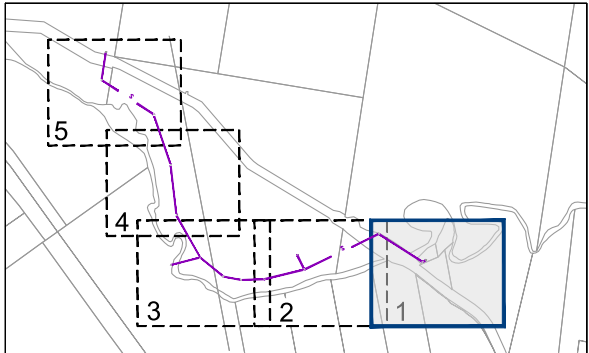
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

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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

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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DRAWING TITLE
DEMOLITION AND PROTECTION PLAN
SHEET 1 OF 5

Issue	Date	Description	LAB	MG	CHK
H	17-02-2025	SEWER LAYOUT UPDATED	JH	MG	
G	19-02-2024	SEWER LAYOUT UPDATED	JH	MG	
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	
B	17-08-2022	ISSUE FOR TENDER	JH	MG	
A	20-11-2021	ORIGINAL ISSUE	JH	MG	

SCALE IN METRES

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

Scale at A1: 1:500

Designed: JH

Drafted: JH

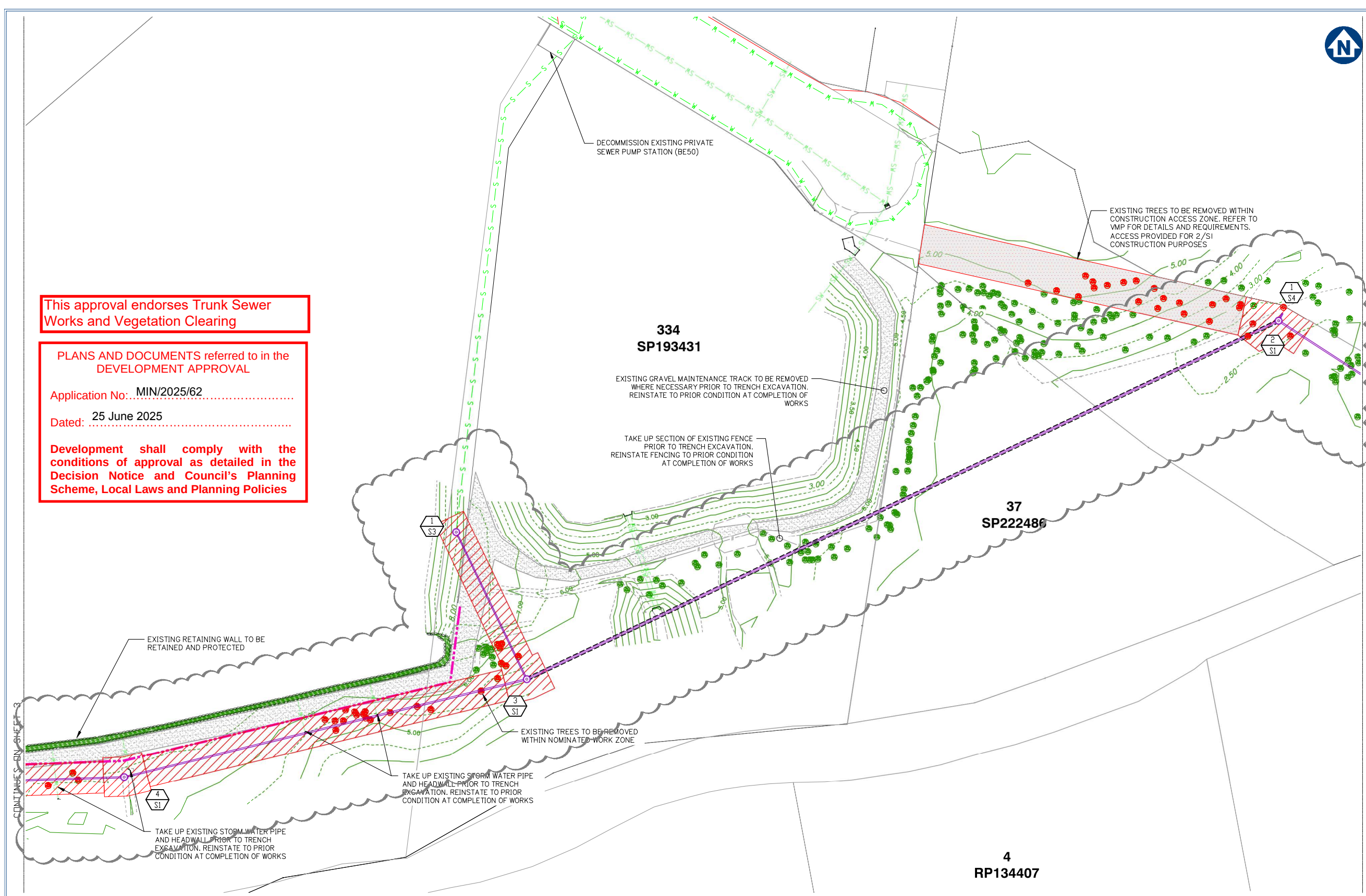
Approved: MG

RPEQ: 16939

Signed: 

Date: 17-02-2025

Drawing No: 5941 ENG SNA2 020 Rev. No: H



This approval endorses Trunk Sewer Works and Vegetation Clearing

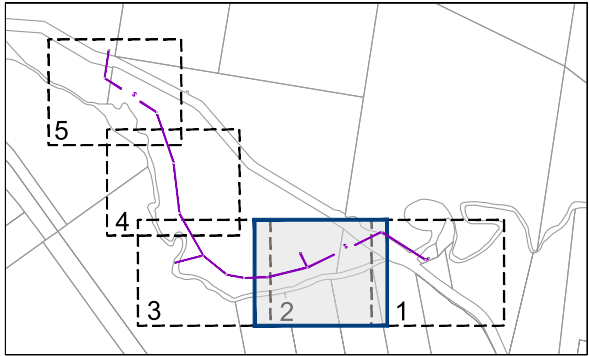
PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

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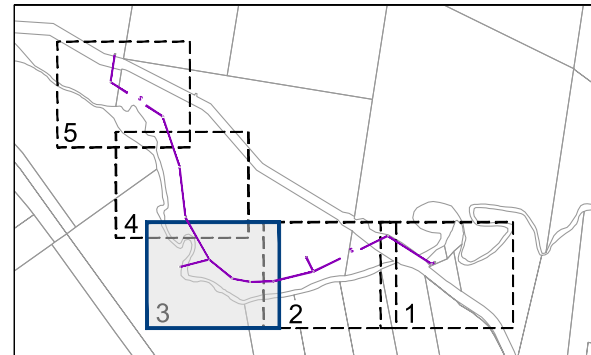
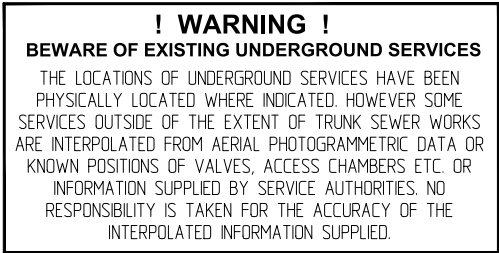


KEY PLAN

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

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	ML	MG
E	14-08-2023	SEWER LAYOUT UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
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B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

Scale at A1:	1:500
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025



KEY PLAN

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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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 |

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development
perspectives
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planning | environment | landscape | engineering | survey

F: 3807 3333 | F: 3287 5461 | www.gassman.com.au

Doki Coast & Logan | 78 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

Client:



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: -
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DRAWING TITLE
DEMOLITION AND
PROTECTION PLAN
SHEET 3 OF 5

F	17-02-2025		SEWER LAYOUT UPDATED			ML	MG		
E	20-06-2024		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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A	20-11-2021		ORIGINAL ISSUE			LAB	MO		
Issue	Date		Description			DRN	CHK		

SCALE IN METRES



Scale at A1: 1:500

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

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303
RP907174

4
RP839725

CONTINUES ON SHEET 5

SANDY CREEK

334
SP193431

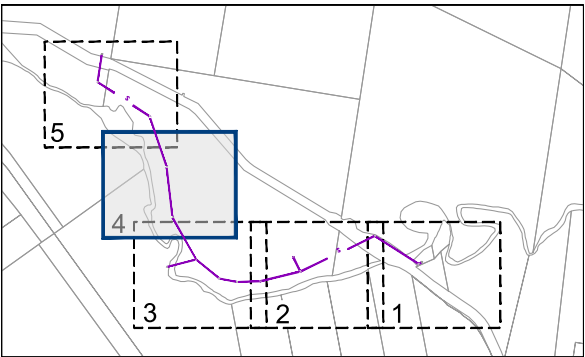
EXISTING TREES TO BE REMOVED
WITHIN NOMINATED WORK ZONE

EXISTING RETAINING WALL TO BE
RETAINED AND PROTECTED

EXISTING GRAVEL MAINTENANCE TRACK TO BE REMOVED
WHERE NECESSARY PRIOR TO TRENCH EXCAVATION.
REINSTATE TO PRIOR CONDITION AT COMPLETION OF WORKS

EXISTING TREES TO BE REMOVED
WITHIN CONSTRUCTION ACCESS
ZONE. REFER TO VMP FOR
DETAILS AND REQUIREMENTS.

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



KEY PLAN

DEMOLITION AND PROTECTION PLAN SHEET 4 OF 5

CONTINUES ON SHEET 3



CHRISTENSEN ROAD SOUTH



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

Client:



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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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ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE
DEMOLITION AND
PROTECTION PLAN
SHEET 4 OF 5

Issue	Date	Description	LAB	MG	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	ML	MG	
E	20-06-2024	SEWER LAYOUT 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



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:	17-02-2025

Drawing No:
5941 ENG SNA2 023

Rev. No:
F



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 5 OF 5

Issue	Date	Description	LAB	MG	DRN	CHK
F	17-02-2025	SEWER LAYOUT UPDATED	JH	MG		
E	17-01-2024	STRUCTURE 12/S1 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	JH	MG		
A	20-11-2021	ORIGINAL ISSUE	JH	MG		

SCALE IN METRES



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:	17-02-2025

Drawing No: 5941 ENG SNA2 024 Rev. No: F

This approval endorses Trunk Sewer
Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

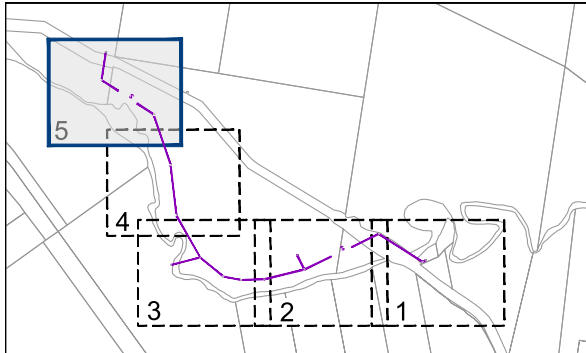
Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

! 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

303
RP907174

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

VANTAGE
YATALA

EXISTING Ø150mm uPVC CL SN8 GRAVITY
SEWER LINE, CONSTRUCTED AS PART OF
VANTAGE STAGE 2

3
RP209307

334
SP193431

CHRISTENSEN ROAD SOUTH

334
SP193431

SANDY CREEK

EXISTING TREES TO BE REMOVED
WITHIN NOMINATED WORK ZONE

CONTINUES ON SHEET 4

DEMOLITION AND PROTECTION PLAN SHEET 5 OF 5

GRAVITY SEWER SETOUT TABLE SI

No.	CHAINAGE	EASTING	NORTHING
2/SI	145.543	3675.871	5547.124
3/SI	356.898	3485.091	5456.162
4/SI	462.074	3382.901	5431.280
1/S3	41.712	3467.149	5493.494

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

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

APPROX 385m SHORING ALONG RETAINING WALL

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

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

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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
I(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	I500 / P2	D / C	N/A	8.624	8.624	4.550	4.074
I(B)	CONTRACTOR TO LAY NEW LINE S3.									
I(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

Client:



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
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PSM: -
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DRAWING TITLE

SEWER LAYOUT PLAN
SHEET 2 OF 5

SCALE IN METRES



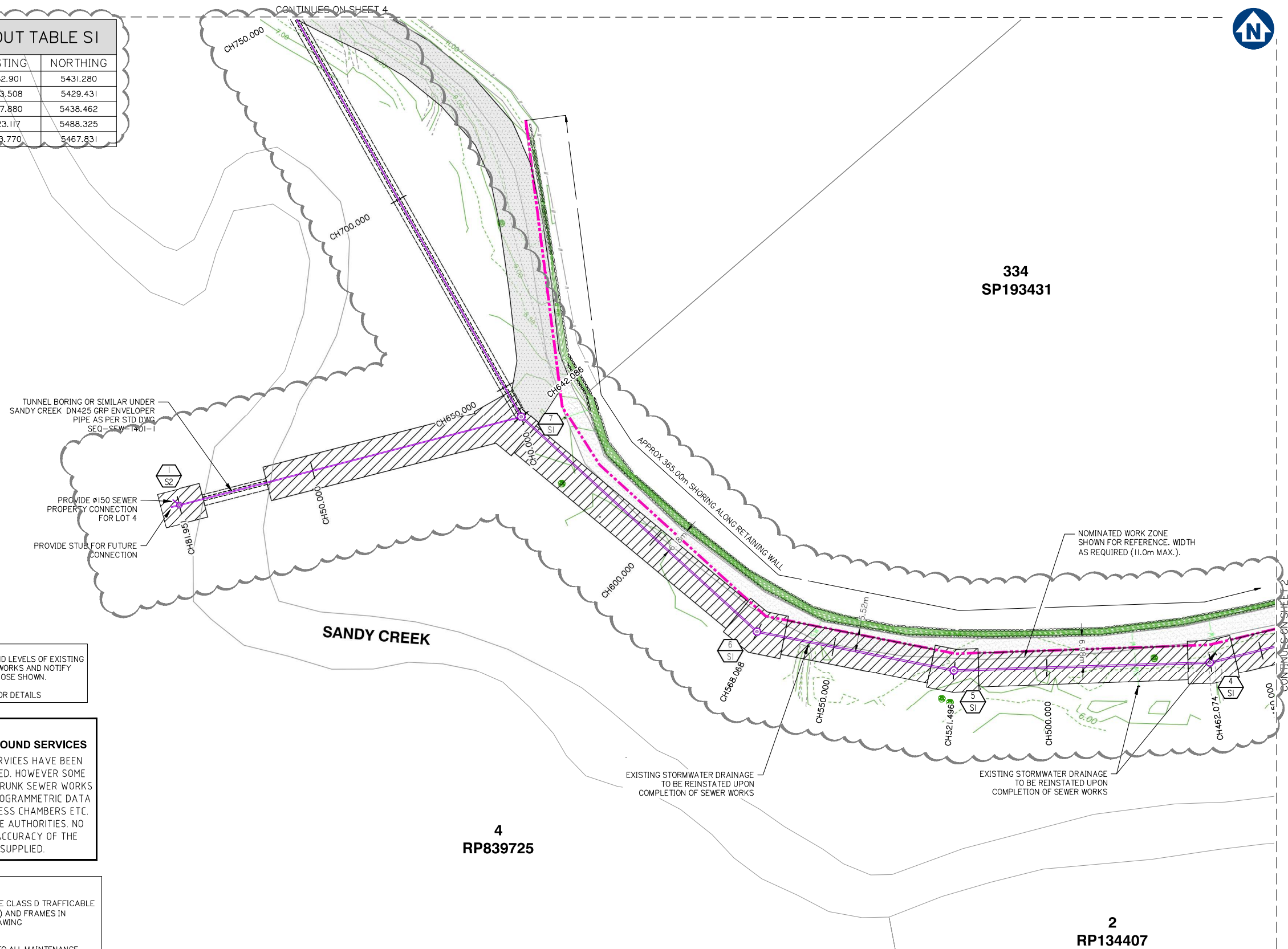
1:500 (FULL SIZE A1)
1:1000 (HALF SIZE A3)

Scale at A1: 1:500

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No: 5941 ENG SNA2 601 Rev. No: G

GRAVITY SEWER SETOUT TABLE SI			
No.	CHAINAGE	EASTING	NORTHING
4/SI	462.074	3382.901	5431.280
5/SI	521.496	3323.508	5429.431
6/SI	568.069	3277.880	5438.462
7/SI	642.087	3223.117	5488.325
1/S2	81.951	3143.770	5467.831



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

! WARNING !

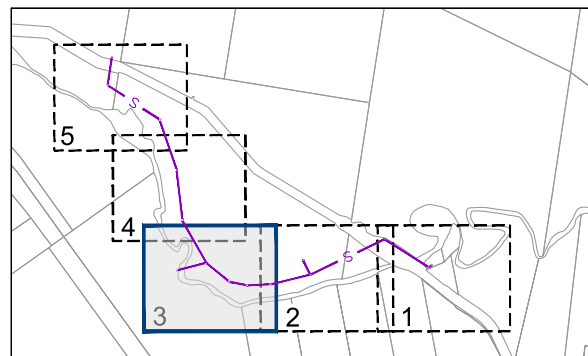
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MANHOLE COVERS AND SURROUNDS:

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-I, 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

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

SEWER LAYOUT PLAN SHEET 3 OF 5



planning | environment | landscape | engineering | survey
T: 3807 3333 | F: 3287 5461 | www.gassman.com.au
Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

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

SEWER LAYOUT PLAN
SHEET 3 OF 5

F	17-02-2025	SEWER LAYOUT AND CHAINAGES UPDATED	ML	MG	
E	20-06-2024	SEWER LAYOUT AND CHAINAGES 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	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



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

Scale at A1: 1:500

Designed:	JH
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Drafted:	IH
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	17-02-2025
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Drawing No:	Rev. No:
5941 ENG SNA2 602	F

GRAVITY SEWER SETOUT TABLE SI			
No.	CHAINAGE	EASTING	NORTHING
8/SI	776.725	3156.896	5605.553
9/SI	897.156	3143.264	5725.218

303
P907174

4
RP839725

SANDY CREEK

334
SP193431

CHRISTENSEN ROAD SOUTH



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development
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est. 1985

planning | environment | landscape | engineering | survey

T: 3807 3333 | F: 3287 5461 | www.gassman.com.au

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Client:



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VANTAGE YATALA
STAGE 2

Site Address:
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SEWER LAYOUT PLAN
SHEET 4 OF 5

F	17-02-2025	SEWER LAYOUT AND CHAINAGES UPDATED	ML	MG	
E	20-06-2024	SEWER LAYOUT AND CHAINAGES UPDATED	JH	MG	
D	26-07-2023	SEWER UPDATED	JH	MG	
C	19-11-2022	SEWER UPDATED	JH	MG	
B	17-03-2022	ISSUE FOR TENDER	LAB	MG	
A	20-11-2021	ORIGINAL ISSUE	LAB	MG	
Issue	Date	Description	DRN	CHK	

SCALE IN METRES



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

Scale at A1:	1:500
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Designed:	JH
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Drafted:	JH
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Approved:	MG
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RPEQ:	16939
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Signed:	
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Date:	17-02-2025
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Drawing No:	Rev. No:
5941 ENG SNA2 603	F

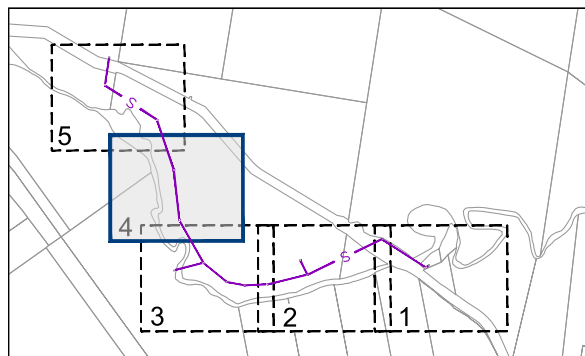
NOTE:
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MANHOLE COVERS AND SURROUNDS:

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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)

! WARNING !
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KEY PLAN

SEWER LAYOUT PLAN SHEET 4 OF 5

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

GRAVITY SEWER SETOUT TABLE SI			
No.	CHAINAGE	EASTING	NORTHING
10/SI	I031.317	3100.368	5852.328
11/SI	I190.802	2967.356	5940.321
12/SI	I225.203	2974.646	5974.313
S21/5	I263.148	2978.609	6011.788

This approval endorses Trunk Sewer Works and Vegetation Clearing

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Application No: MIN/2025/62

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SP295994

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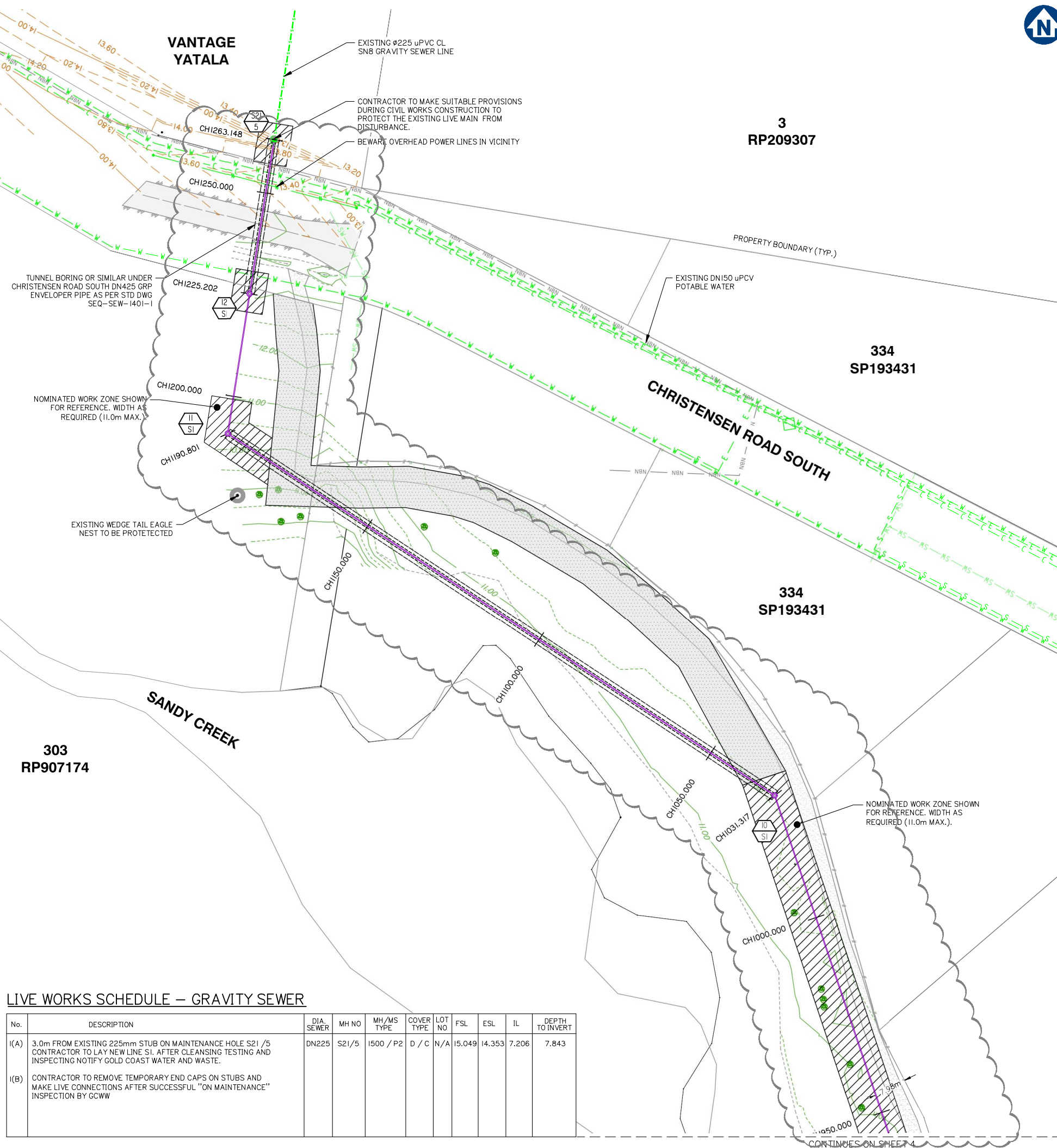
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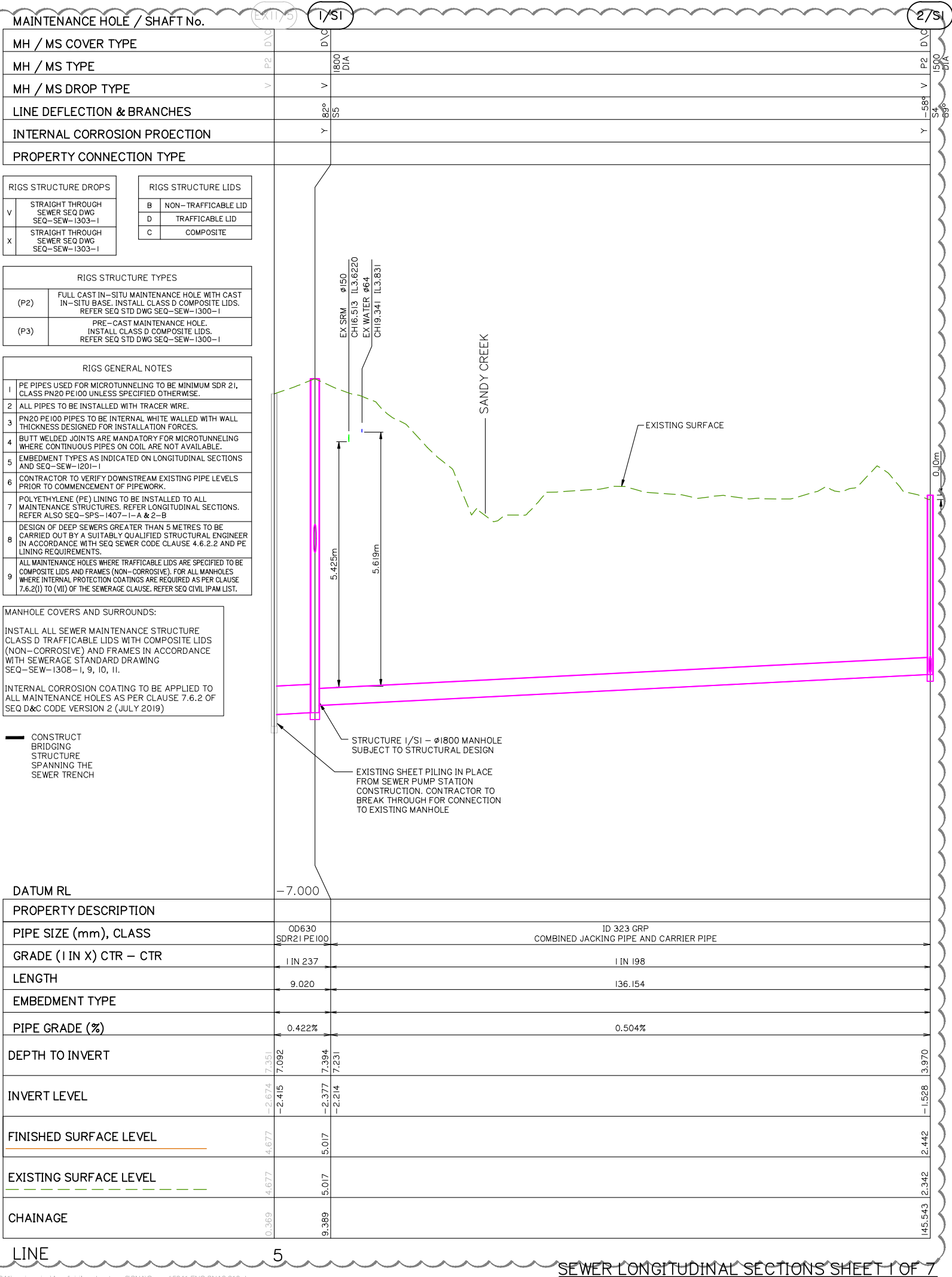
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g:\Projects\5941\engineering\Acad\civil works stage 2\SNA\Current\5941 ENG SNA2 610.dwg

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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RPD:

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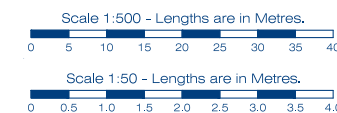
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DRAWING TITLE

SEWER LONGITUDINAL
SECTIONS SHEET 2 OF 7

K	17-02-2025	LONG SECTION UPDATED	JH	MC	
J	20-06-2024	LONG SECTION UPDATED	JH	MC	
I	30-04-2024	SEWER UPDATED	JH	MC	
H	17-01-2024	SEWER UPDATED	JH	MC	
G	07-11-2023	GENERAL NOTE 1 AMENDED	JH	MC	
F	14-09-2023	SEWER SECTIONS UPDATED	JH	MC	
E	14-08-2023	SEWER SECTION UPDATED	JH	MC	
D	26-07-2023	SEWER UPDATED	JH	MC	
C	10-01-1-2022	SEWER UPDATED	JH	MC	
B	17-09-2022	ISSUE FOR TENDER	LAB	MC	
A	20-11-2021	ORIGINAL ISSUE	LAB	MC	
Issue	Date	Description	DRN	CH	



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

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No:	Rev. No:
5941 ENG SNA2 611	K

Client:



FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER -
VANTAGE YATALA
STAGE 2

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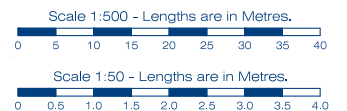
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DRAWING TITLE

SEWER LONGITUDINAL
SECTIONS SHEET 3 OF 7

I	17-02-2025	LONG SECTION UPDATED	JH	MG	
H	20-06-2024	LONG SECTION UPDATED	JH	MG	
G	30-04-2024	SEWER UPDATED	JH	MG	
F	17-01-2024	SEWER UPDATED	JH	MG	
E	07-11-2023	GENERAL NOTE 1 AMENDED	JH	MG	
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Issue	Date	Description	DRN	CHK	



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

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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

Client:



FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER -
VANTAGE YATALA
STAGE 2

Site Address:
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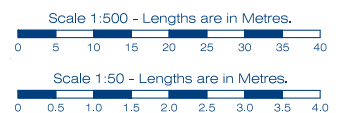
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SEWER LONGITUDINAL
SECTIONS SHEET 4 OF 7

J	17-02-2025	LONG SECTION UPDATED	JH	MG	
I	20-06-2024	LONG SECTION UPDATED	JH	MG	
H	30-04-2024	SEWER UPDATED	JH	MG	
G	17-01-2024	SEWER UPDATED	JH	MG	
F	07-11-2023	GENERAL NOTE 1 AMENDED	JH	MG	
E	14-06-2023	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	
Issue Date	Date	Description	DRN	CHK	



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

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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

MAINTENANCE HOLE / SHAFT No.

8/SI

MH / MS COVER TYPE

MH / MS TYPE

MH / MS DROP TYPE

LINE DEFLECTION & BRANCHES

INTERNAL CORROSION PROECTION

PROPERTY CONNECTION TYPE

RIGS STRUCTURE DROPS

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

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-I
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-I

RIGS GENERAL NOTES

1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 21, 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-I
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-I-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-I, 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

GRADE (1 IN X) CTR - CTR

LENGTH

EMBEDMENT TYPE

PIPE GRADE (%)

DEPTH TO INVERT

INVERT LEVEL

FINISHED SURFACE LEVEL

EXISTING SURFACE LEVEL

CHAINAGE

LINE

5

9/SI

P2 D/C

P2 D/C

Y -12°

Y

P2 D/C

P2 D/C

Y -38°

Y

P2 D/C

P2 D/C

Y -38°

Y

P2 D/C

P2 D/C

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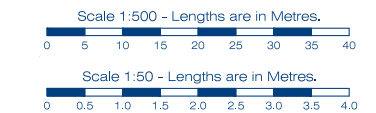
P2 D/C

P2 D/C

Y -38°

Y

17-02-2025	LONG SECTION UPDATED		JH
20-06-2024	LONG SECTION UPDATED		JH
17-01-2024	SEWER UPDATED		JH
07-11-2023	GENERAL NOTE 1 & STRUCT. 10/S1 AMENDED		JH
14-08-2023	SEWER SECTION UPDATED		JH
26-07-2023	SEWER UPDATED		JH
10-11-2022	SEWER UPDATED		JH
17-08-2022	ISSUE FOR TENDER		LAB
20-11-2021	ORIGINAL ISSUE		LAB
Date	Description		DRN



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

Designed:	JH
Drafted:	JH
Approved:	MG
PEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No:	Rev. N
041 ENG SNA2 615	I

MAINTENANCE HOLE / SHAFT No.		10/S1	11/S1	12/S1	12/S1	12/S1
MH / MS COVER TYPE						
MH / MS TYPE		P2	P2	P3	P3	C
MH / MS DROP TYPE		V	V	V	V	V
LINE DEFLECTION & BRANCHES		-38°	86°			
INTERNAL CORROSION PROECTION		Y	Y	Y		
PROPERTY CONNECTION TYPE						
RIGS STRUCTURE DROPS		RIGS STRUCTURE LIDS				
V	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-I	B	NON-TRAFFICABLE LID			
X	STRAIGHT THROUGH SEWER SEQ DWG SEQ-SEW-1303-I	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-I					
(P3)	PRE-CAST MAINTENANCE HOLE. INSTALL CLASS D COMPOSITE LIDS. REFER SEQ STD DWG SEQ-SEW-1300-I					
RIGS GENERAL NOTES						
1	PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 21, 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-I					
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-I-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-I, 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 SN8	DN225 uPVC SN8	DN225 uPVC SN8	DN225 uPVC DWV SN8	
GRADE (I IN X) CTR – CTR		1 IN 180	1 IN 217	1 IN 170	1 IN 300	
LENGTH		159.484	34.401	37.946	92.812	
EMBEDMENT TYPE					TYPE 4	
PIPE GRADE (%)		0.554%	0.461%	0.587%	0.333%	
DEPTH TO INVERT		5.860 5.848	3.603 3.588	6.399 6.380	7.871 6.974	
INVERT LEVEL		5.894 5.906	6.790 6.805	6.963 6.983	7.206 7.226	
FINISHED SURFACE LEVEL		11.754	10.393	15.560	15.077	
EXISTING SURFACE LEVEL		11.536	10.293	12.954	14.200	
CHAINAGE		1031.317	1190.802	1225.203	1263.149	

MAINTENANCE HOLE / SHAFT No.

MH / MS COVER TYPE

MH / MS TYPE

MH / MS DROP TYPE

LINE DEFLECTION & BRANCHES

INTERNAL CORROSION PROECTION

PROPERTY CONNECTION TYPE

RIGS STRUCTURE DROPS

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

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-1303-I
(P3) PRE-CAST MAINTENANCE HOLE.
INSTALL CLASS D COMPOSITE LIDS.
REFER SEQ STD DWG SEQ-SEW-1300-I

RIGS GENERAL NOTES

- 1 PE PIPES USED FOR MICROTUNNELING TO BE MINIMUM SDR 21,
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-I
- 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-SFS-1407-I-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-I, 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 -4.000

PROPERTY DESCRIPTION

PIPE SIZE (mm), CLASS

GRADE (1 IN X) CTR - CTR

LENGTH

EMBEDMENT TYPE

PIPE GRADE (%)

DEPTH TO INVERT

INVERT LEVEL

FINISHED SURFACE LEVEL

EXISTING SURFACE LEVEL

CHAINAGE

LINE

S2

S2 PC

S3

S4

S5

SEWER LONGITUDINAL SECTIONS SHEET 7 OF 7



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beenleigh 4207

Client:



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 7 OF 7

M	17-02-2025	LONG SECTION UPDATED	JH	MG
L	20-06-2024	LONG SECTION UPDATED	JH	MG
K	30-04-2024	SEWER UPDATED	JH	MG
J	04-04-2024	STRUCTURE 1/S1 UPDATED	JH	MG
I	19-02-2024	LINE S5 UPDATED	JH	MG
H	17-01-2024	SEWER UPDATED	JH	MG
G	07-11-2023	GENERAL NOTE 1 & STRUCT. 1/S3 AMENDED	JH	MG
F	05-10-2023	S5 AMENDED	JH	MG
E	14-08-2023	LINE 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
Issue	Date	Description	DRN	CHK

Scale 1:500 - Lengths are in Metres.

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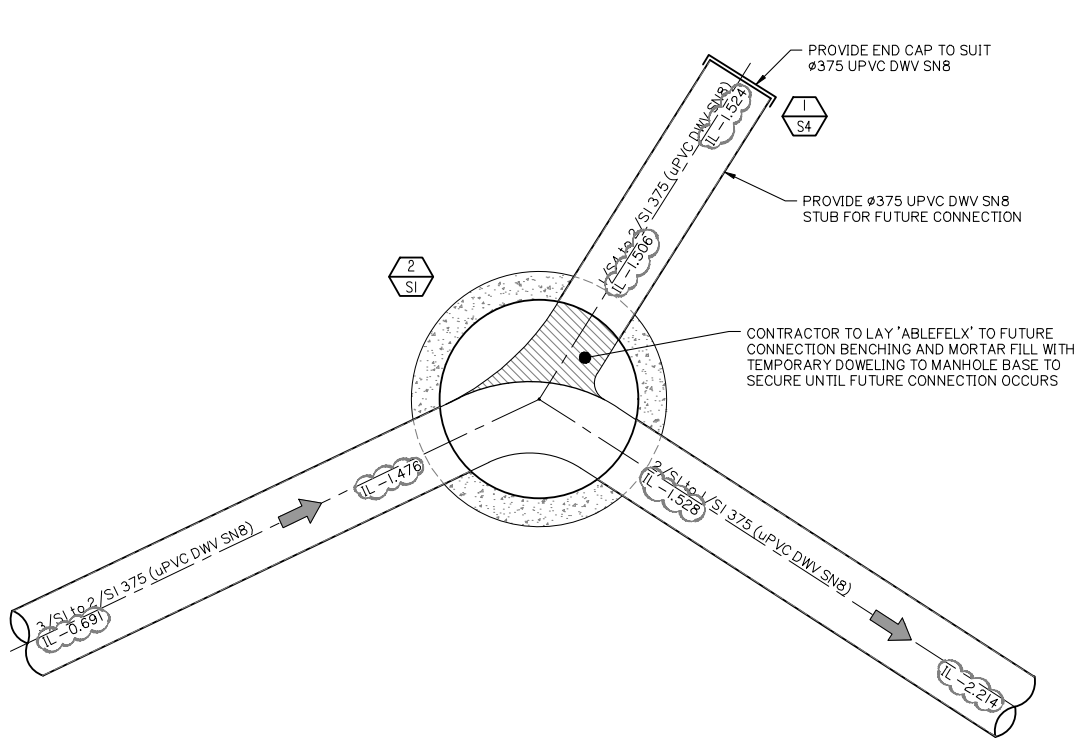
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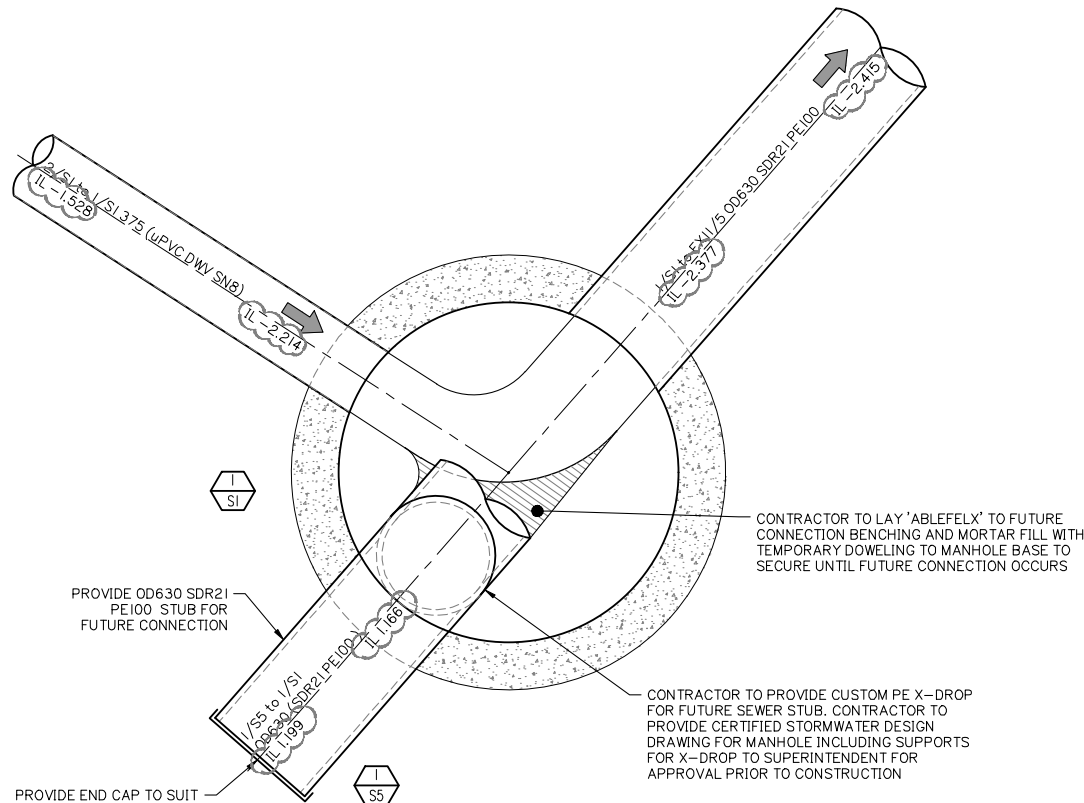
Scale at A1: 1:500 (H) 1:50 (V)

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

Drawing No: 5941 ENG SNA2 616 Rev. No: M



STRUCTURE 2/S1 BENCHING DETAILS



STRUCTURE 1/S1 BENCHING DETAILS

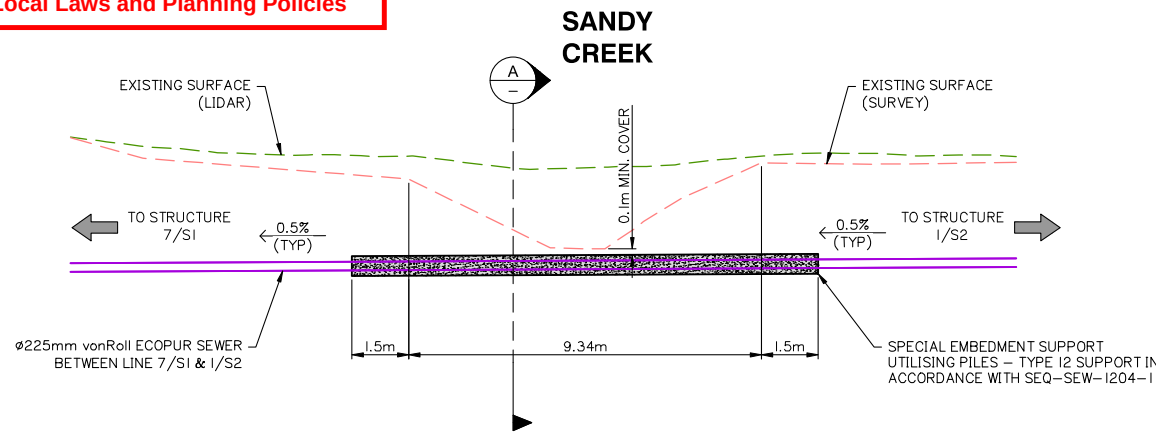
This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

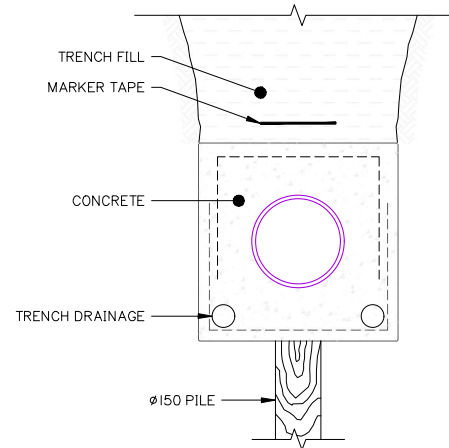
Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies



ULTIMATE CONCRETE ENCASED SEWER SECTION

SANDY CREEK SEWER CROSSING
SCALE: 1: 100



TYPICAL SECTION - A

SPECIAL EMBEDMENT SUPPORT
UTILISING PILES - TYPE I2
SUPPORT. REFER TO
SEQ-SEW-I204-I

NOTES:
1. CONCRETE ENCASEMENT
• REINFORCED CONCRETE N25 MIN
2. SEWER PIPE
• vonRoll ECOPUR
3. REFER TO SEQ-SEW-I204-I FOR
TYPICAL DETAILS.
4. CONTRACTOR TO LOCATE ALL EXISTING
SERVICES PRIOR TO CONSTRUCTION.

Client:



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

STRUCTURE BENCHING
DETAILS

Issue	Date	Description	DRN	CHK
G	17-02-2025	STRUCTURE DETAIL UPDATED	JH	MG
F	30-04-2024	STRUCTURE DETAIL UPDATED, DETAIL ADDED	JH	MG
E	04-04-2024	IL ADDED	JH	MG
D	19-02-2024	STRUCTURE DETAIL UPDATED	JH	MG
C	17-01-2024	DETAILS UPDATED	JH	MG
B	05-10-2023	DETAIL UPDATED	JH	MG
A	14-09-2023	ORIGINAL ISSUE	LAB	MG

Scale 1:20 - Lengths are in Metres.

0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6

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

Designed: JH

Drafted: JH

Approved: MG

RPEQ: 16939

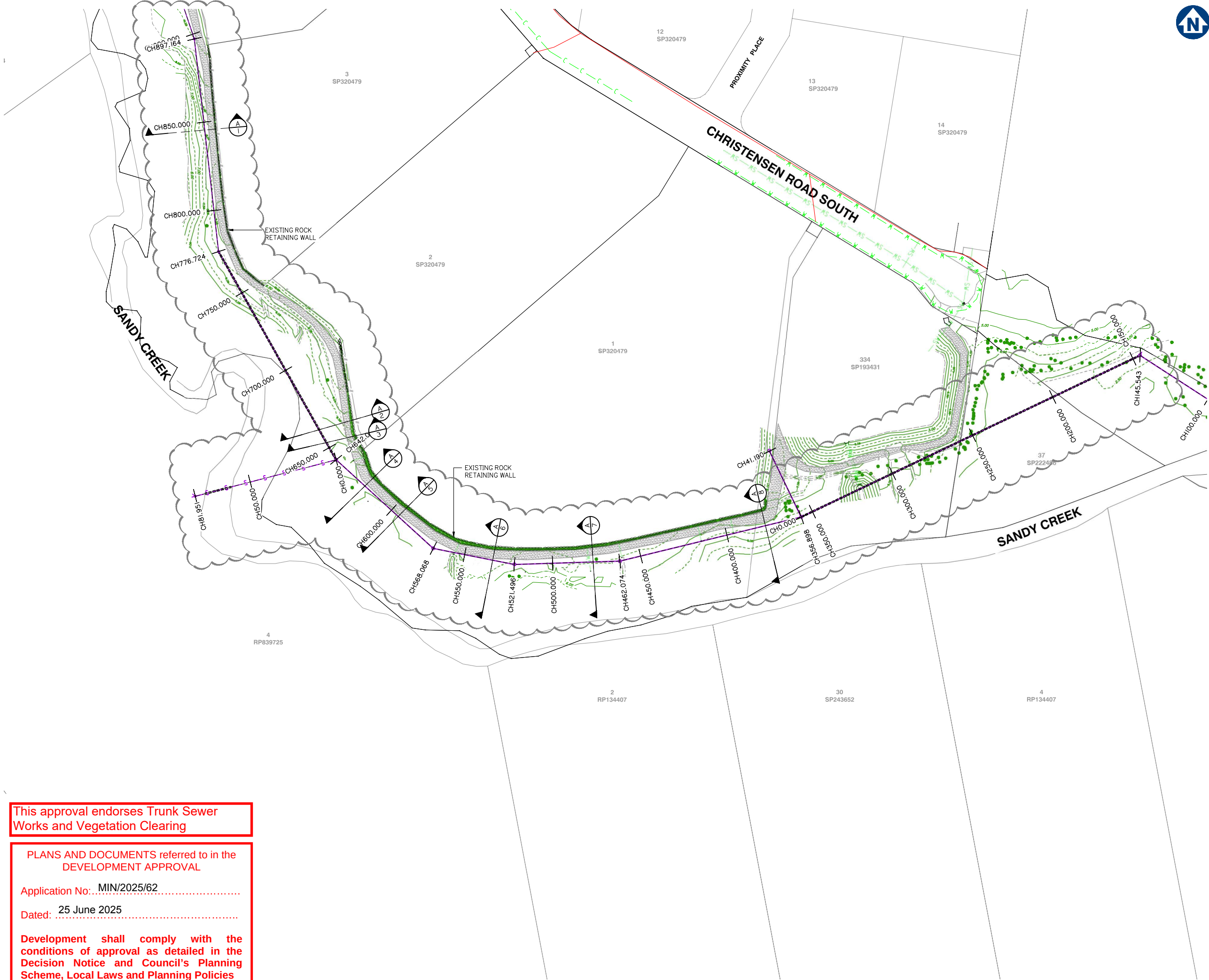
Signed:

Date: 17-02-2025

Drawing No:
5941 ENG SNA2 617

Rev. No:
G

STRUCTURE BENCHING DETAILS



planning | environment | landscape | engineering | survey
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Gold Coast & Logan | 76 Business Street, Yatala QLD | PO Box 392, Beerleigh 4207

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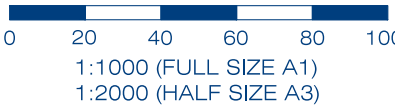
ALL DRAWINGS ARE TO BE READ IN CONJUNCTION WITH GENERAL NOTES

DRAWING TITLE

EXISTING RETAINING
WALL LAYOUT PLAN

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER UPDATED	ML	MG
E	20-06-2024	SEWER 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



Scale at A1: 1:1000

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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

This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the conditions of approval as detailed in the Decision Notice and Council's Planning Scheme, Local Laws and Planning Policies

EXISTING RETAINING WALL LAYOUT PLAN

Client:



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

EXISTING RETAINING WALL
SECTIONS SHEET 1 OF 2

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER UPDATED	ML	MG
E	20-06-2024	SEWER 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

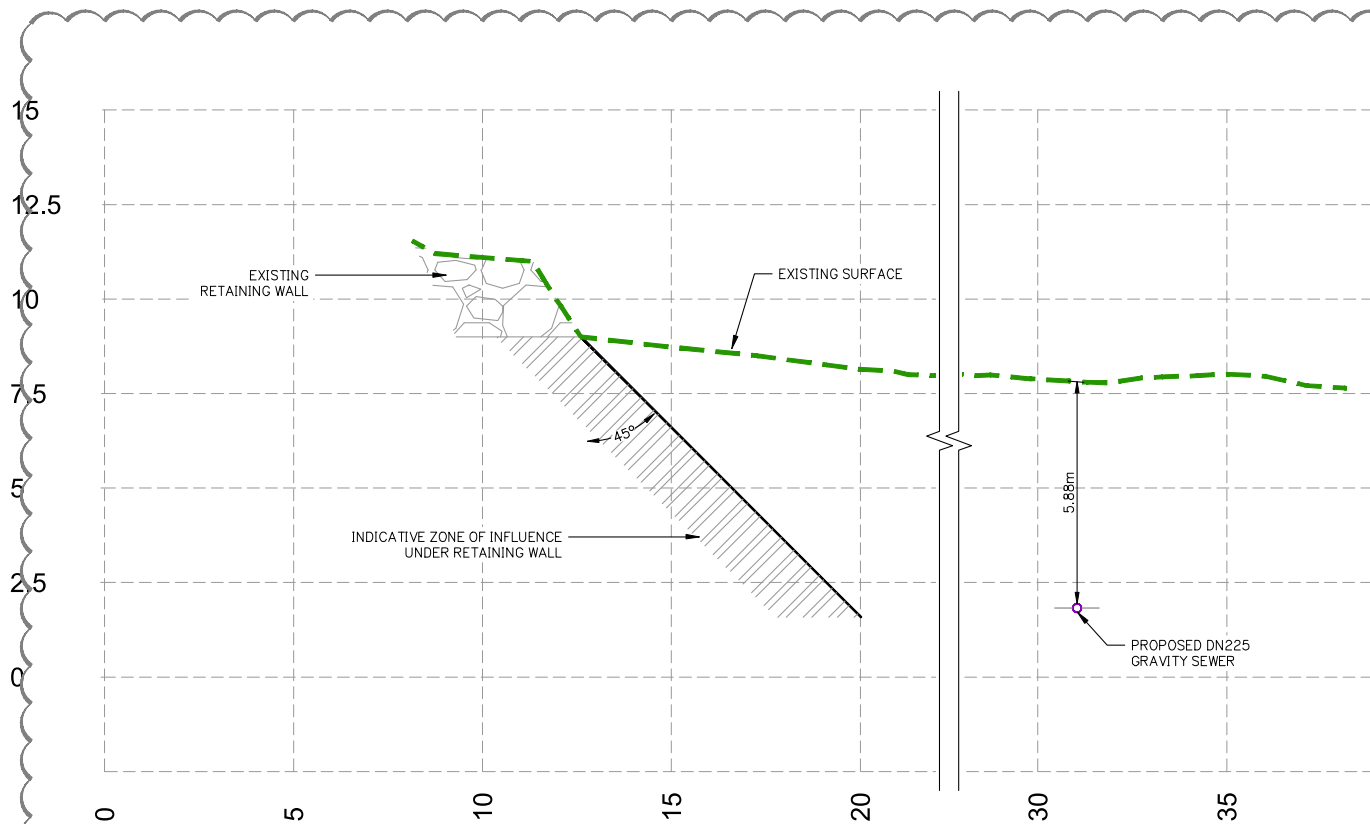


1:100 (FULL SIZE A1)
1:200 (HALF SIZE A3)

Scale at A1: 1:100

Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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



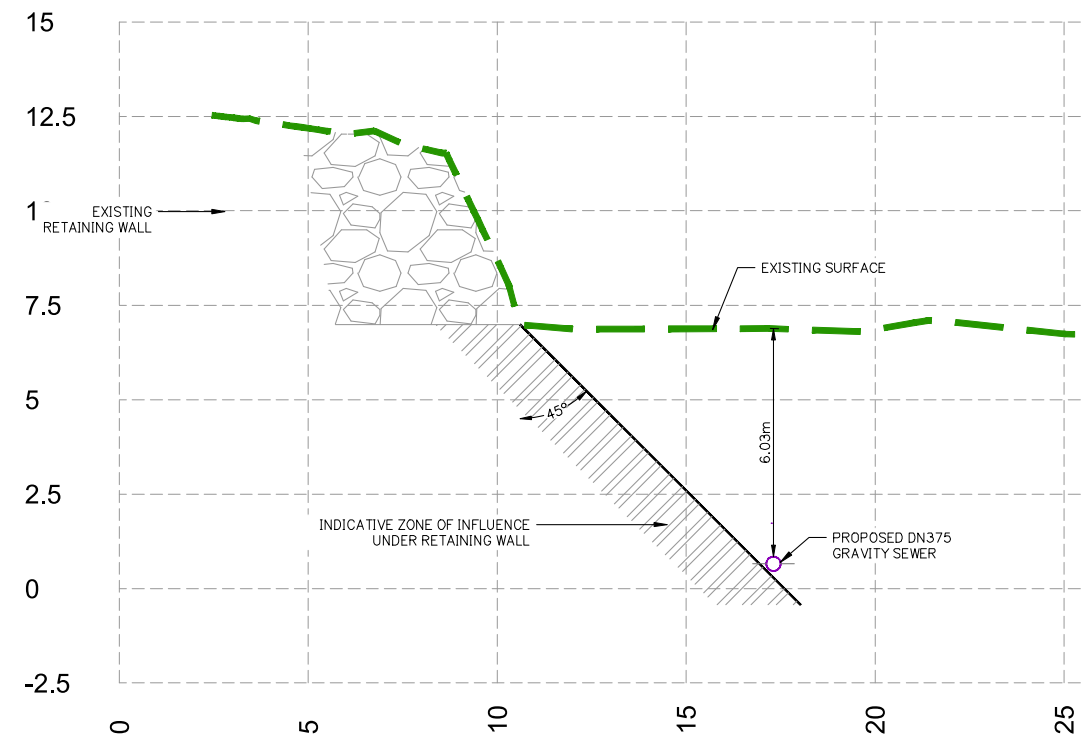
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PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

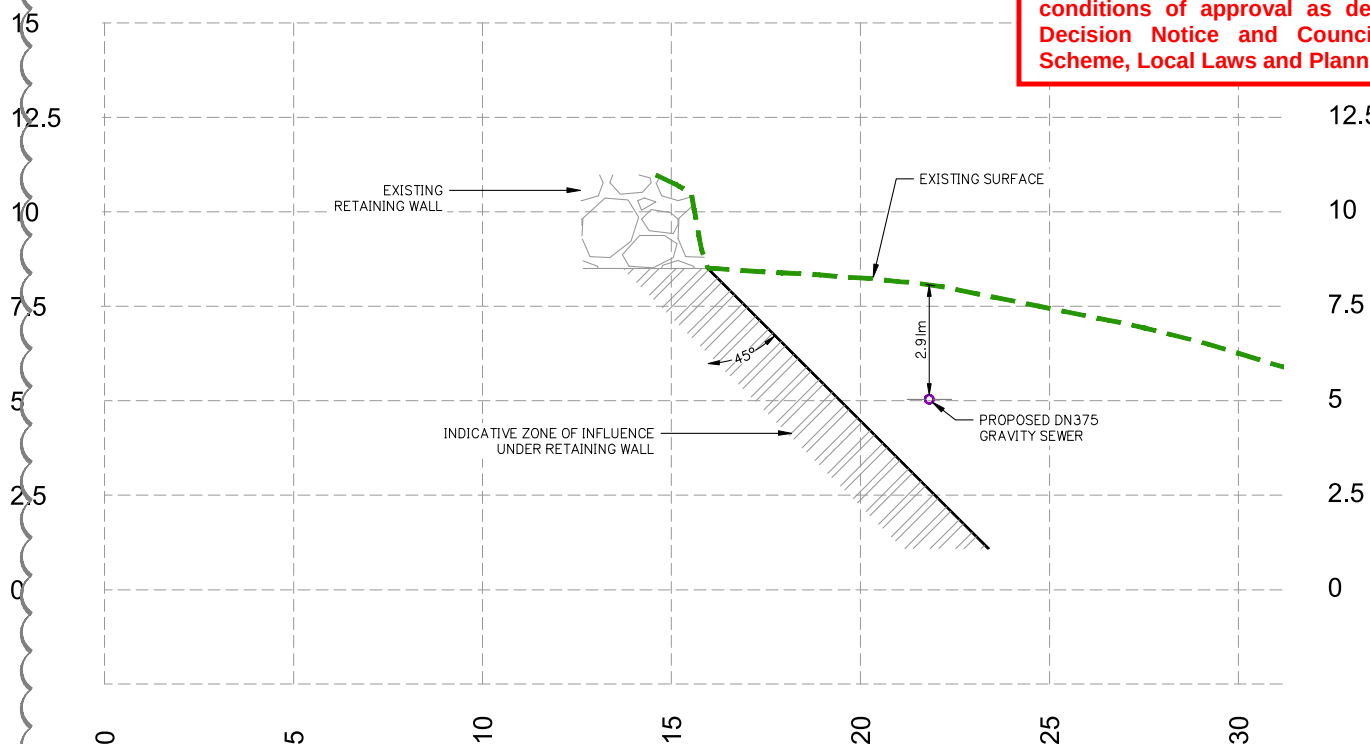
Dated: 25 June 2025

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Scheme, Local Laws and Planning Policies

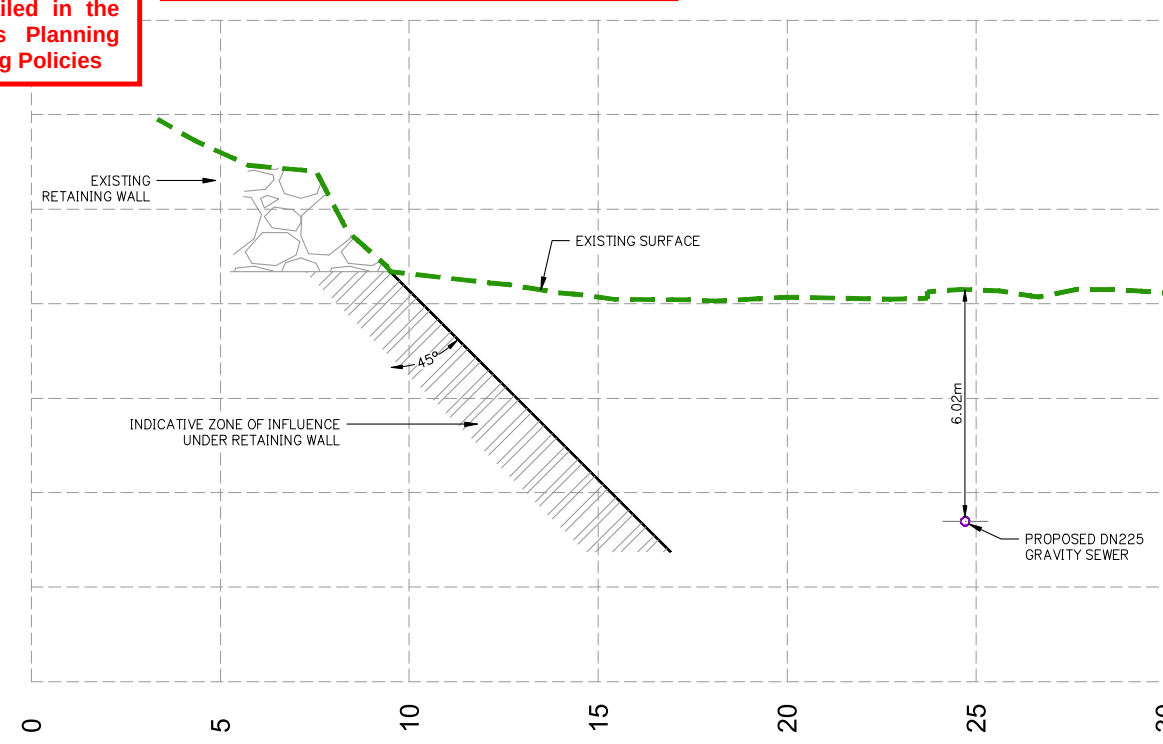


SECTION
SCALE 1: 100

This approval endorses Trunk Sewer
Works and Vegetation Clearing



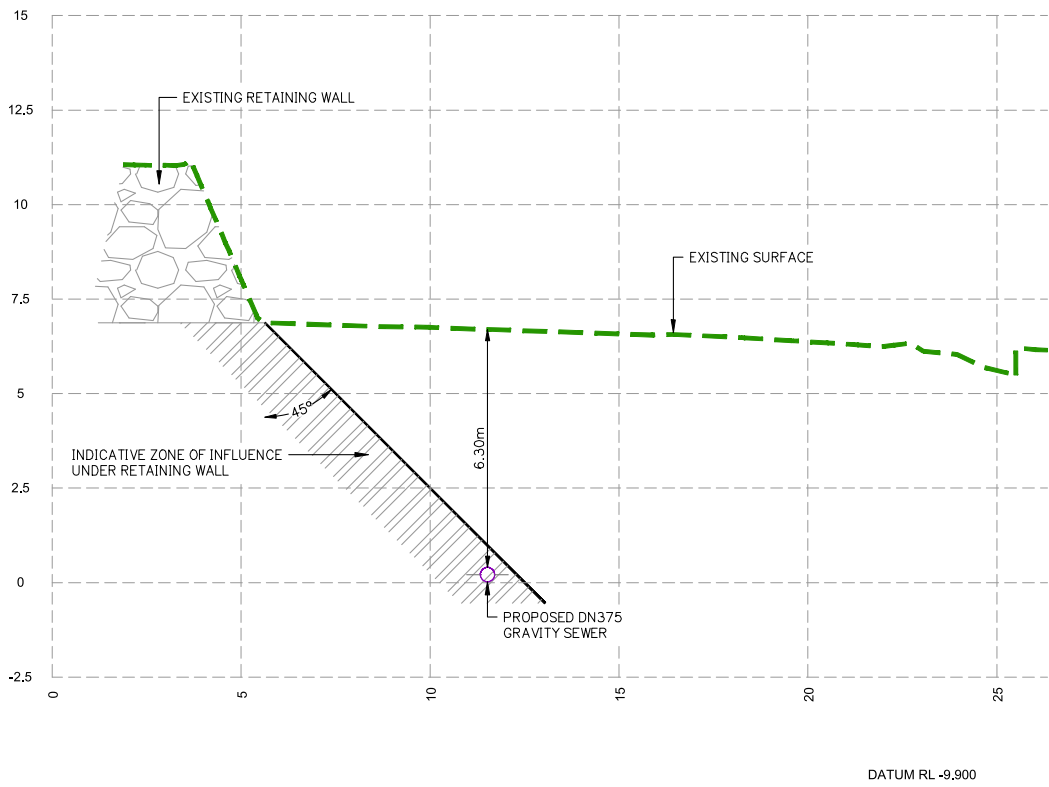
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SCALE 1: 100



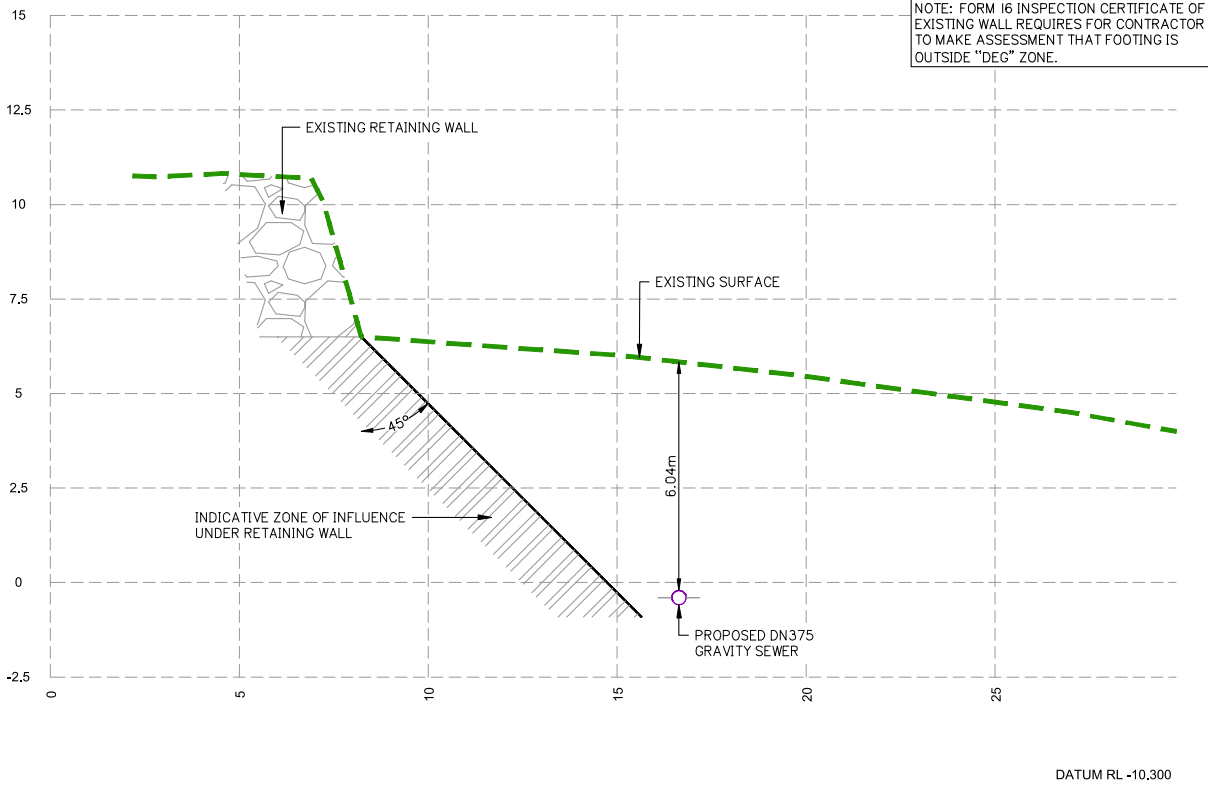
SECTION
SCALE 1: 100

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



SECTION
SCALE 1: 100



SECTION
SCALE 1: 100

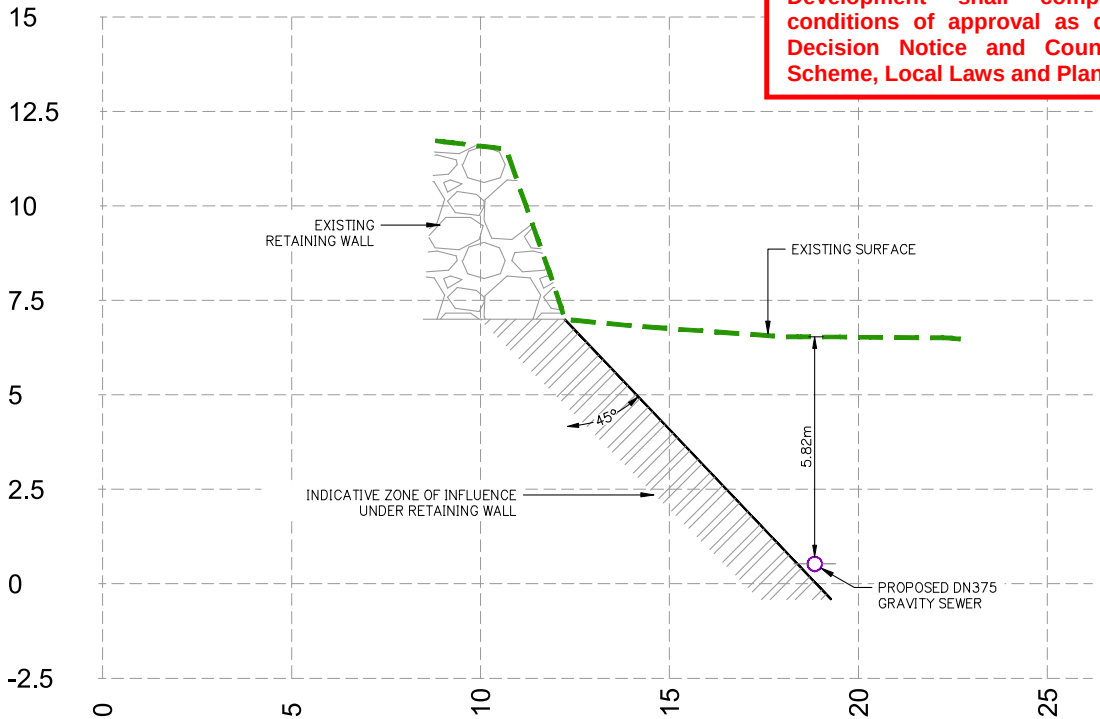
PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No: MIN/2025/62

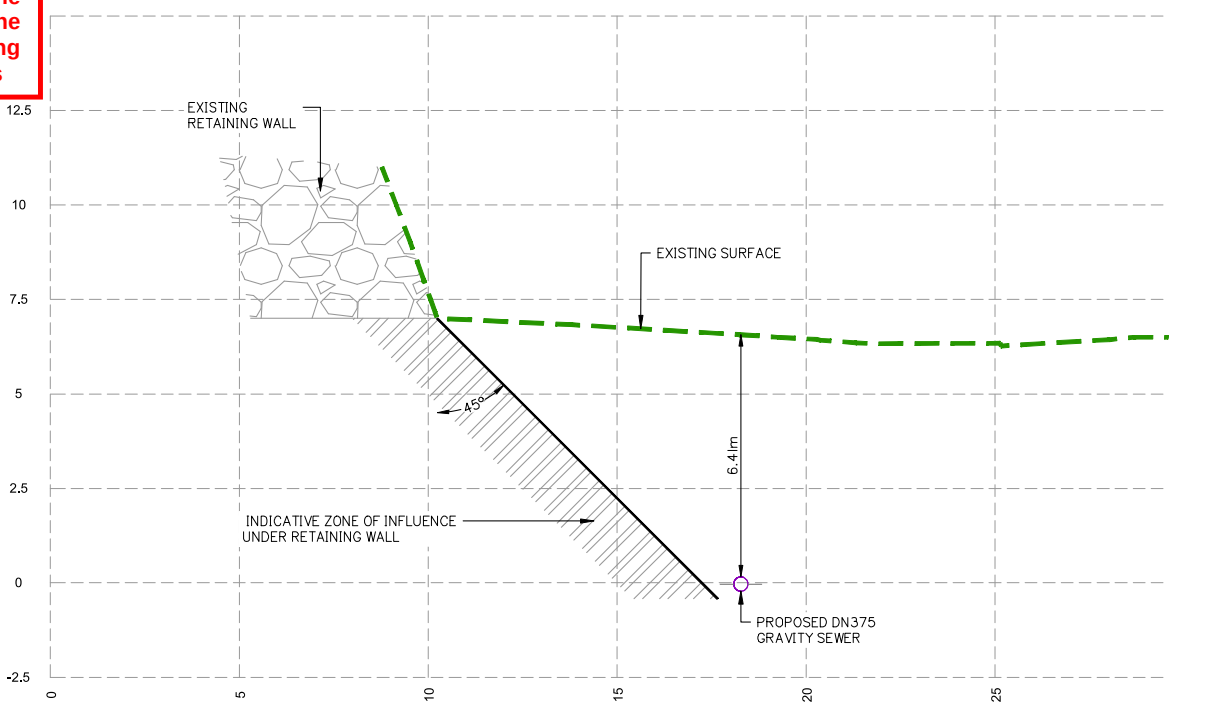
Dated: 25 June 2025

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This approval endorses Trunk Sewer
Works and Vegetation Clearing



SECTION
SCALE 1: 100



SECTION
SCALE 1: 100

Client:



FPI QUEENSLAND PTY. LTD.

Project: TRUNK GRAVITY SEWER -
VANTAGE YATALA
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Site Address:
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DRAWING TITLE

EXISTING RETAINING WALL
SECTIONS SHEET 2 OF 2

Issue	Date	Description	DRN	CHK
F	17-02-2025	SEWER UPDATED	ML	MG
E	20-06-2024	SEWER UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
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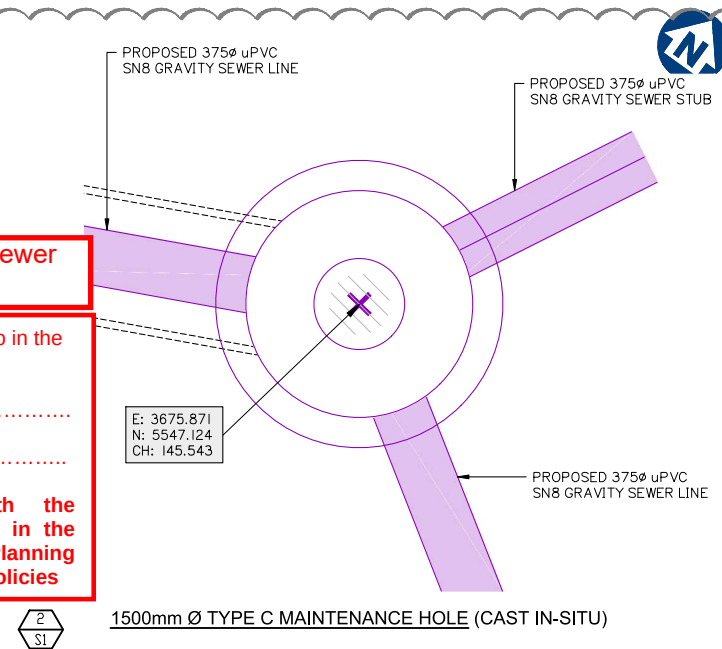
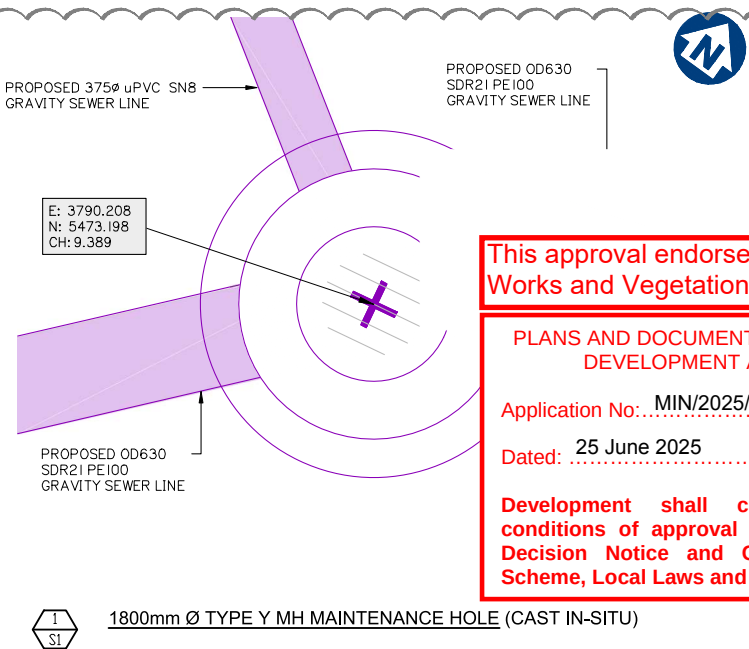
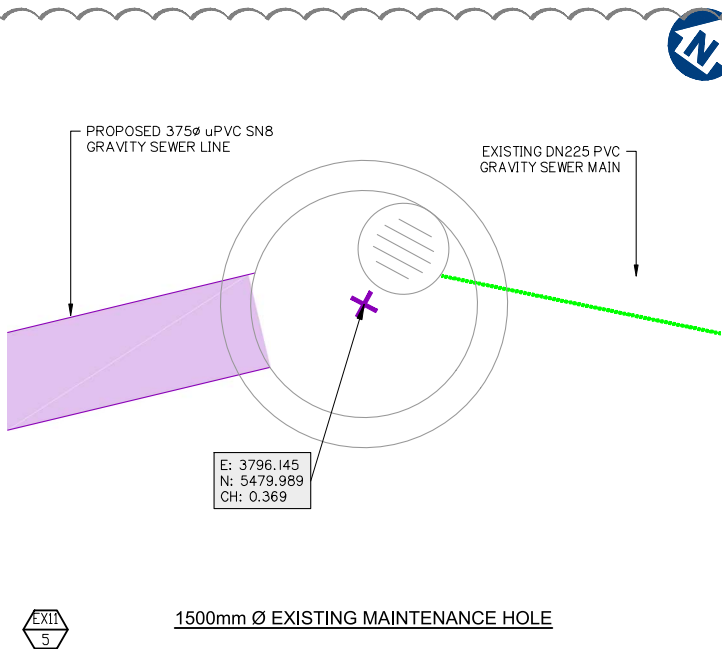
SCALE IN METRES



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:	17-02-2025

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



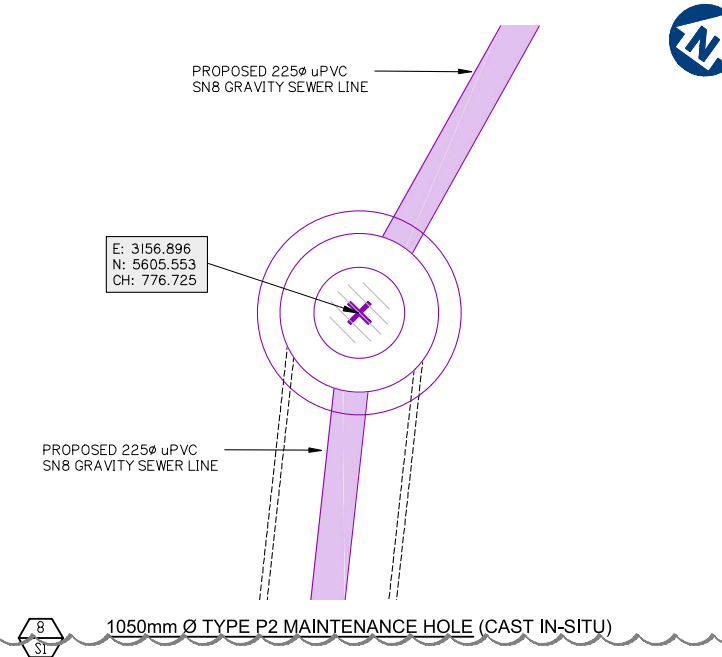
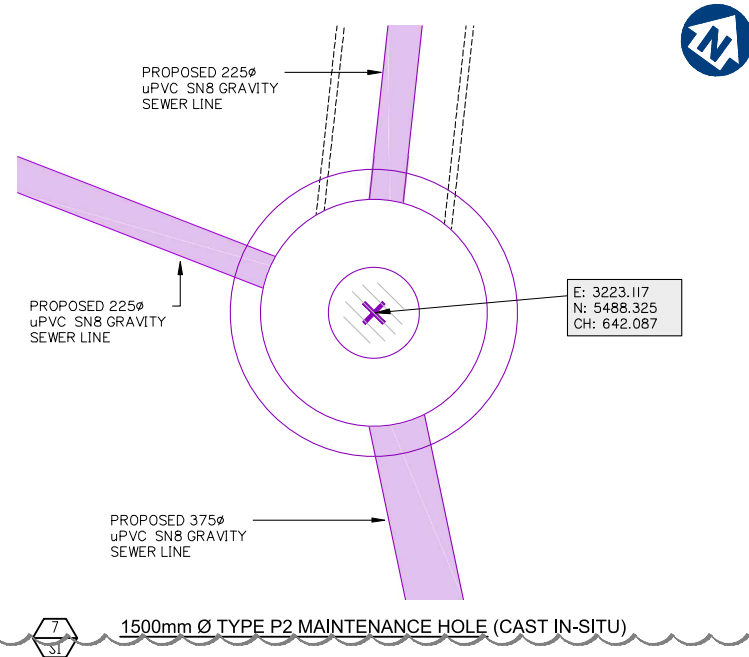
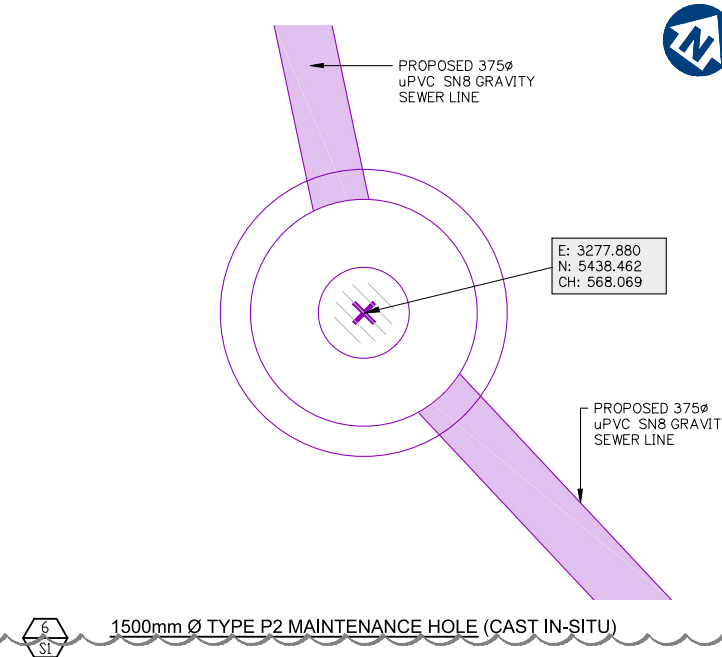
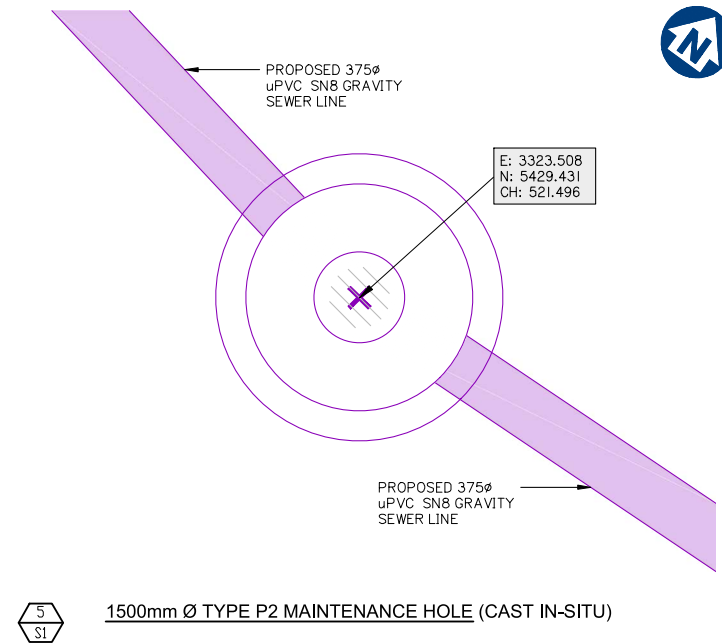
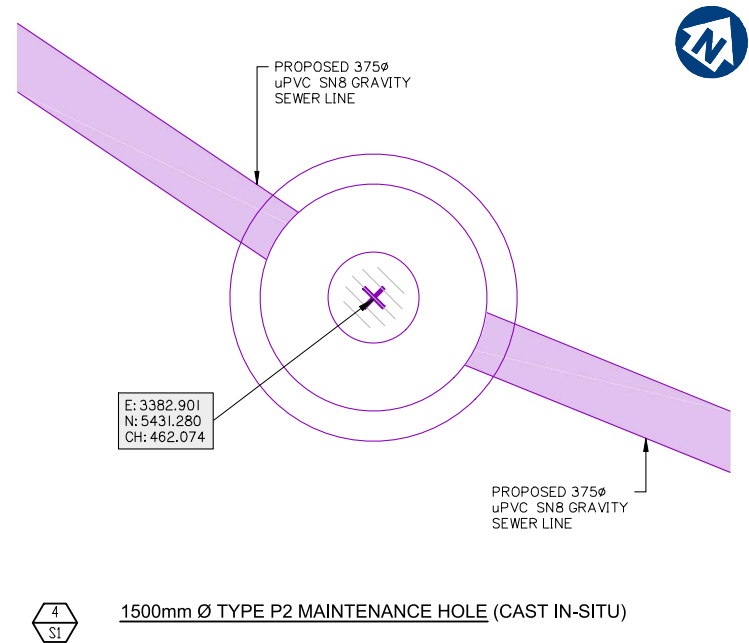
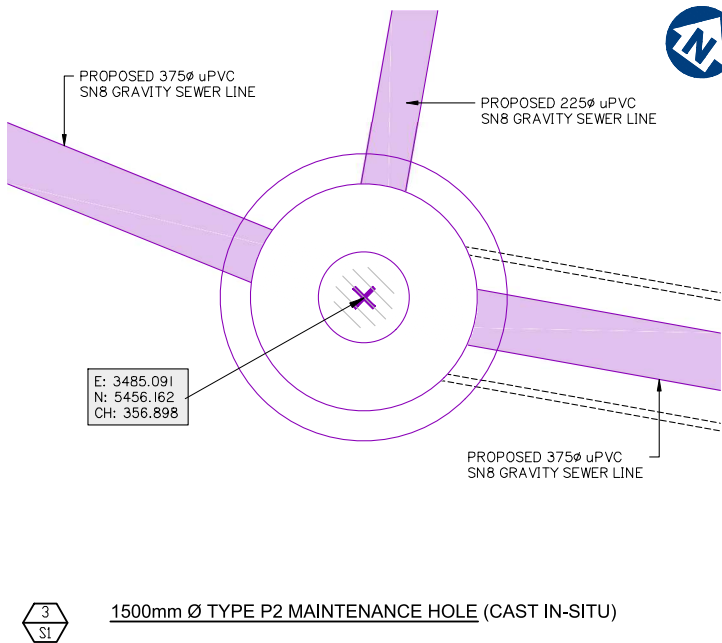
This approval endorses Trunk Sewer Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the DEVELOPMENT APPROVAL

Application No: MIN/2025/62

Dated: 25 June 2025

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Issue	Date	Description	DRN	CHK
I	17-02-2025	DETAILS UPDATED	JH	MG
H	20-06-2024	DETAILS UPDATED	JH	MG
G	19-02-2024	DETAILS UPDATED	JH	MG
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
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
A	20-11-2021	ORIGINAL ISSUE	LAB	MG

Scale at A1:	N.T.S
Designed:	JH
Drafted:	JH
Approved:	MG
RPEQ:	16939
Signed:	
Date:	17-02-2025

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

SEWER STRUCTURE
DETAILS SHEET 2 OF 3

Issue	Date	Description	DRN	CHK
A	20-11-2021	ORIGINAL ISSUE	LAB	MG
B	17-08-2022	ISSUE FOR TENDER	LAB	MG
C	10-11-2022	SEWER UPDATED	JH	MG
D	26-07-2023	SEWER UPDATED	JH	MG
E	07-11-2023	STRUCT. 10S1 & 1S3 AMENDED	JH	MG
F	17-01-2024	STRUCTURE 10S1 ADDED	JH	MG
G	20-06-2024	DETAILS UPDATED	JH	MG
H	17-02-2025	DETAILS UPDATED	ML	MG

Scale at A1: N.T.S

Designed: JH

Drafted: JH

Approved: MG

RPEQ: 16939

Signed:

Date: 17-02-2025

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

PROPOSED 225 ϕ uPVC
SN8 GRAVITY SEWER LINE

E: 3143.264
N: 5725.218
CH: 897.165

PROPOSED 225 ϕ uPVC
SN8 GRAVITY SEWER LINE

1050mm ϕ TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

This approval endorses Trunk Sewer
Works and Vegetation Clearing

PLANS AND DOCUMENTS referred to in the
DEVELOPMENT APPROVAL

Application No.: MIN/2025/62

Dated: 25 June 2025

Development shall comply with the
conditions of approval as detailed in the
Decision Notice and Council's Planning
Scheme, Local Laws and Planning Policies

PROPOSED 225 ϕ
uPVC SN8 GRAVITY
SEWER LINE

E: 3100.368
N: 5852.328
CH: 1031.317

PROPOSED 225 ϕ
uPVC SN8 GRAVITY
SEWER LINE

1050mm ϕ TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

PROPOSED 225 ϕ
uPVC SN8 GRAVITY
SEWER LINE

E: 2967.356
N: 5940.321
CH: 897.165

PROPOSED 225 ϕ
uPVC SN8 GRAVITY
SEWER LINE

1050mm ϕ TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

E: 2972.646
N: 5974.313
CH: 1225.203

PROPOSED 225 ϕ
uPVC SN8 GRAVITY
SEWER LINE

1050mm ϕ TYPE P3 MAINTENANCE HOLE (PRE-CAST)

E: 2978.609
N: 6011.788
CH: 1263.148

PROPOSED 225 ϕ uPVC
SN8 GRAVITY SEWER LINE

1500mm ϕ STAGE 2 EXISTING MAINTENANCE HOLE

EXISTING ϕ 225mm uPVC
GRAVITY SEWER LINE

ϕ 150mm PROPERTY
CONNECTION FOR LOT 4

FUTURE ϕ 225mm uPVC
GRAVITY SEWER LINE

E: 3143.770
N: 5467.831
CH: 81.951

PROPOSED 225 ϕ uPVC
SN8 GRAVITY SEWER LINE

1050mm ϕ TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

EXISTING ϕ 225mm uPVC
GRAVITY SEWER LINE

E: 3467.149
N: 5493.494
CH: 41.712

PROPOSED 225 ϕ uPVC
SN8 GRAVITY SEWER LINE

1500mm ϕ TYPE P2 MAINTENANCE HOLE (CAST IN-SITU)

DOCUMENT TRANSMITTAL SCHEDULE

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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	Month	11	07	08	09	10	11	12	01	02	04	04	02
	Year	22	23	23	23	23	23	23	24	24	24	24	25

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A	A	A	A	A	A	A	A	C	C	C	C	A
C - Construction				T -Tender				A - Approval				
I - Information				O - Other								

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EP	- PDF										

Drg/Doc No.	Title												
5941 ENG SNA2 001	DRAWING INDEX AND LOCALITY PLAN	C	D	E	F	G	H	H	I	J	K	L	P
5941 ENG SNA2 002	GENERAL NOTES	C	D	D	D	D	D	D					
5941 ENG SNA2003	LEGEND	C	D	D	D	D	D	D					
5941 ENG SNA2 005	KEY PLAN LAYOUT AND BOREHOLE INVESTIGATION LOCATIONS	C	D	E	E	E	E	E		F			H
5941 ENG SNA2 010	CONTOUR AND DETAIL PLAN SHEET 1 OF 5	C	D	E	E	E	E	E		F			G
5941 ENG SNA2 011	CONTOUR AND DETAIL PLAN SHEET 2 OF 5	C	D	E	E	E	E	E					F
5941 ENG SNA2 012	CONTOUR AND DETAIL PLAN SHEET 3 OF 5	C	D	D	D	D	D	D					F
5941 ENG SNA2 013	CONTOUR AND DETAIL PLAN SHEET 4 OF 5	C	D	D	D	D	D	D					F
5941 ENG SNA2 014	CONTOUR AND DETAIL PLAN SHEET 5 OF 5	C	D	D	D	D	D	D	E				F
5941 ENG SNA2 020	DEMOLITION AND PROTECTION PLAN SHEET 1 OF 5	C	D	E	F	F	F	F		G			H
5941 ENG SNA2 021	DEMOLITION AND PROTECTION PLAN SHEET 2 OF 5	C	D	E	E	E	E	E					F
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5941 ENG SNA2 603	SEWER LAYOUT PLAN SHEET 4 OF 5	C	D	D	D	D	D	D					F
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5941 ENG SNA2 610	SEWER LONGITUDINAL SECTIONS SHEET 1 OF 7	C	D	E	F	G	H	H	I	J	K		N
5941 ENG SNA2 611	SEWER LONGITUDINAL SECTIONS SHEET 2 OF 7	C	D	E	F	F	G	G	H			I	K
5941 ENG SNA2 612	SEWER LONGITUDINAL SECTIONS SHEET 3 OF 7	C	D	D	D	D	E	E	F			G	I
5941 ENG SNA2 613	SEWER LONGITUDINAL SECTIONS SHEET 4 OF 7	C	D	E	E	E	F	F	G			H	J
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5941 ENG SNA2 615	SEWER LONGITUDINAL SECTIONS SHEET 6 OF 7	C	D	E	E	E	F	F	G				I
5941 ENG SNA2 616	SEWER LONGITUDINAL SECTIONS SHEET 7 OF 7	C	D	E	E	F	G	G	H	I	J	K	M
5941 ENG SNA2 617	STRUCTURE BENCHING DETAILS			A	A	B	B	B	C	D	E	F	G
5941 ENG SNA2 620	EXISTING RETAINING WALL LAYOUT PLAN	C	D	D	D	D	D	D					F
5941 ENG SNA2 621	EXISTING RETAINING WALL SECTIONS SHEET 1 OF 2	C	D	D	D	D	D	D					F
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5941 ENG SNA2 650	SEWER STRUCTURE DETAILS SHEET 1 OF 3	C	D	E	F	F	F	F		G			I
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5941 ENG SNA2 652	DRAWING REMOVED	C	D	-									
5941 ENG SNA2 700	DRAWING REMOVED	C	D	-									

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Name & Company: Signed: Dated: / /

Project Manager: mitchell@gassman.com.au Sent by: Mitchell Gassman