

FLAGSTONE CITY

TRUNK SEWER CONTEXT AREA 4

NEW BEITH ROAD, FLAGSTONE

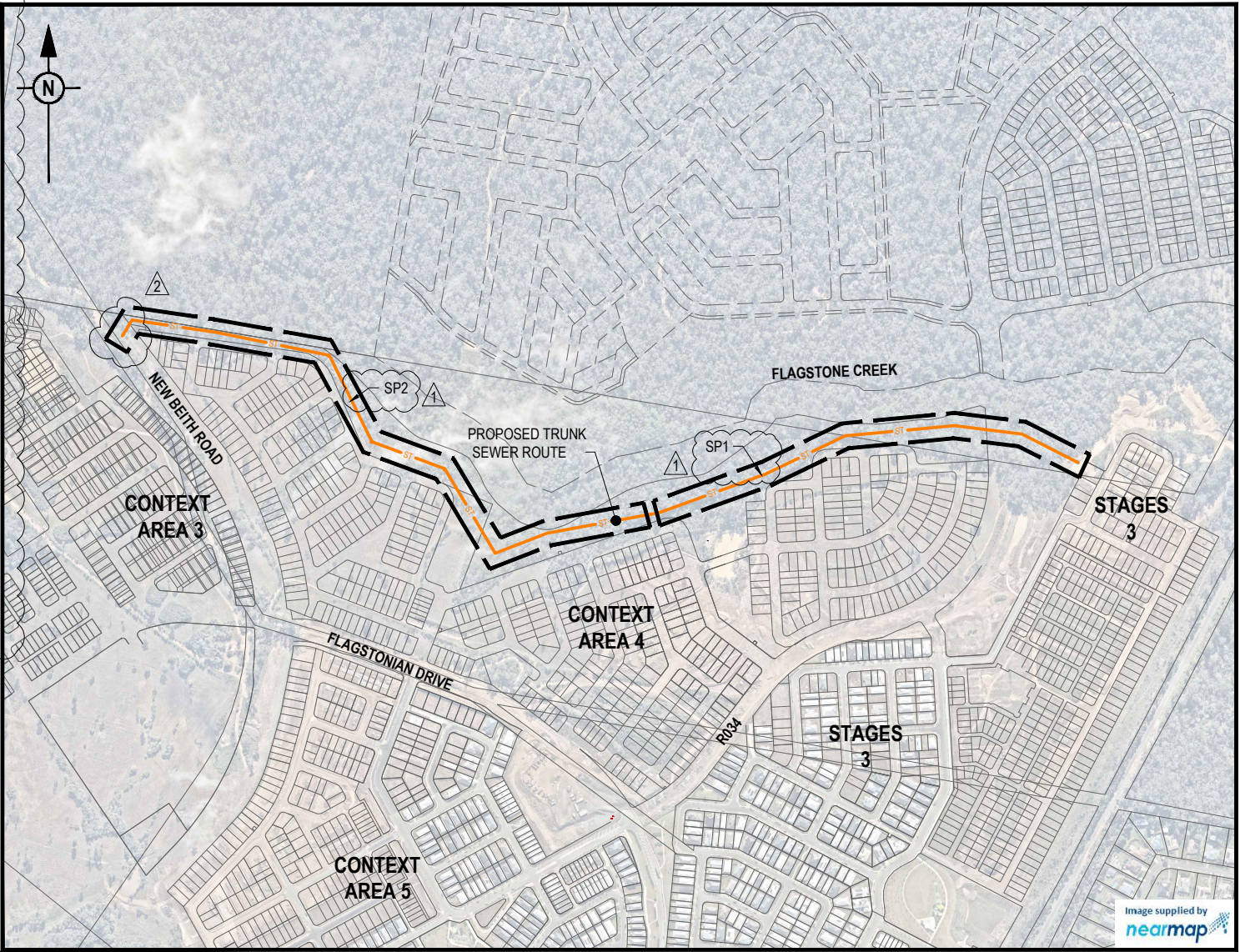
FOR 'PEET FLAGSTONE CITY Pty. Ltd.'

DRAWING LIST

23-0202-1700	TRUNK SEWER COVER PLAN
23-0202-1701	TRUNK SEWER GENERAL NOTES
23-0202-1702	TRUNK SEWER MAIN MH CONSTRUCTION NOTES SHEET 1 OF 2
23-0202-1703	TRUNK SEWER MAIN MH CONSTRUCTION NOTES SHEET 2 OF 2
23-0202-1710	TRUNK SEWER OVERALL LAYOUT PLAN
23-0202-1711	TRUNK SEWER LAYOUT PLAN SHEET 1 OF 5
23-0202-1712	TRUNK SEWER LAYOUT PLAN SHEET 2 OF 5
23-0202-1713	TRUNK SEWER LAYOUT PLAN SHEET 3 OF 5
23-0202-1714	TRUNK SEWER LAYOUT PLAN SHEET 4 OF 5
23-0202-1715	TRUNK SEWER LAYOUT PLAN SHEET 5 OF 5
23-0202-1716	TRUNK SEWER LONGITUDINAL SECTIONS SHEET 1 OF 4
23-0202-1717	TRUNK SEWER LONGITUDINAL SECTIONS SHEET 2 OF 4
23-0202-1718	TRUNK SEWER LONGITUDINAL SECTIONS SHEET 3 OF 4
23-0202-1719	TRUNK SEWER LONGITUDINAL SECTIONS SHEET 4 OF 4

REFERENCE DRAWINGS

LW-SEW-DWG-2000 (B)	COVER SHEET AND DRAWING LIST
LW-SEW-DWG-2050 (A)	TYPICAL INTERNALLY LINED MAINTENANCE HOLE DETAILS SHEET 1 OF 3
LW-SEW-DWG-2051 (A)	TYPICAL INTERNALLY LINED MAINTENANCE HOLE DETAILS SHEET 2 OF 3
LW-SEW-DWG-2052 (A)	TYPICAL INTERNALLY LINED MAINTENANCE HOLE DETAILS SHEET 3 OF 3
LW-SEW-DWG-2053 (A)	TYPICAL TYPE 'D' MAINTENANCE HOLE MODIFIED P3 MAINTENANCE HOLE
LW-SEW-DWG-2100 (A)	TYPICAL MAINTENANCE STRUCTURE DETAILS ON EXISTING GRAVITY SEWER
LW-SEW-DWG-2101 (A)	MISCELLANEOUS CONNECTION DETAILS
LW-SEW-DWG-2102 (A)	PE TO PVC CONNECTION DETAILS
LW-SEW-DWG-2103 (A)	TYPICAL DIAMETER SEWER CONNECTION TO EXISTING
LW-SEW-DWG-2120 (A)	MAINTENANCE HOLE TYPICAL PVC INTERNAL DROP DETAILS



LOCALITY PLAN
SCALE 1:5000 (A1)
SCALE 1:10000 (A3)

PROJECT INFORMATION SUMMARY:

RP DESCRIPTION
LOT 910 ON SP339534

DATUM LEVEL AND LOCATION
P.S.M. 107142
RL 39.078 AHD
LOCAL

LOCAL AUTHORITY: LOGAN CITY COUNCIL
COUNCIL REFERENCE NUMBER: XX/XX

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314
Condition no: 20b
Date: 14-Apr-26

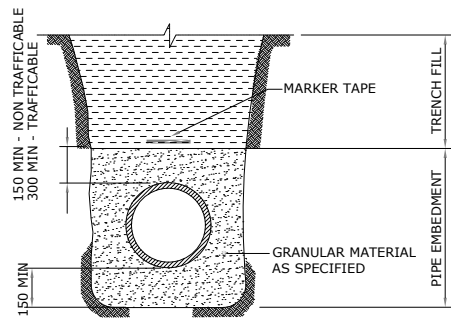


REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS	SCALE	CLIENT	PROJECT NAME	DRAWING TITLE
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION	JR	ISSUED FOR CONSTRUCTION	1:5000 100 50 0 100 200 A1	PEET FLAGSTONE CITY Pty. Ltd.	FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4	TRUNK SEWER COVER PLAN
1	29.04.25	DC	JR	LIVE CONNECTION ADDED FOR SP2	TR	APPROVED DANIEL COLLINS RPEQ 18631	1:10000	ASSOCIATED CONSULTANT VERIS PHONE: (07) 3666 4700	FLAGSTONIAN DRIVE FLAGSTONE	PROJECT No. 23-0202
2	31.07.25	TR	JR	ALIGNMENT AMENDED, DRAWING LIST AMENDED		FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD				DRAWING No. 1700
										REVISION 2

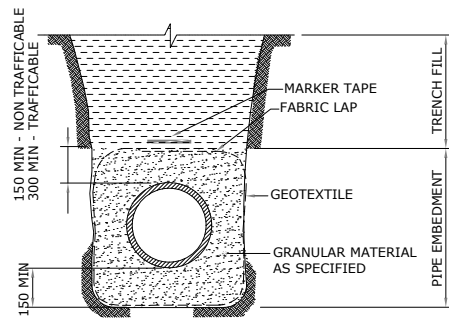
PLOT: 31-Jul-2025 02:27 PM LOCATION: H:\23023-0202-Flagstone-Stage 4A & 4B\Design\Area 4A\23-0202-1700-TRUNK SEWER COVER.dwg

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER AND SEWERAGE CODE SPECIFICATIONS AND STANDARDS (SEQCODE).
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER.
4. ALL DESIGN AND CONSTRUCTION ACTIVITIES UNDERTAKEN SHALL COMPLY WITH CURRENT WORKPLACE HEALTH AND SAFETY REQUIREMENTS AND LEGISLATION/
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE TESTED BY A NATA CERTIFIED TEST LABORATORY IN ACCORDANCE WITH THE SEQ CODE. IN ALL SUCH CASES APPROVAL OF CONSTRUCTED WORKS WILL NOT BE ISSUED BY THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
7. WHERE PIPES HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS OR TRENCHSTOPS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SEQ-SEW-1206-1.
8. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
9. EXISTING MAINS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ CODE.
10. HOLD POINT: ONCE THE BASE OF MANHOLES HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS
11. BENCH MARK AND LEVELS TO AHD.
12. THE CONTRACTOR SHALL SUPPLY ALL LABOR, MATERIALS, PLANT AND EQUIPMENT TO CONSTRUCT THE WORKS AS DOCUMENTED AND STRICTLY IN ACCORDANCE WITH THE RELEVANT AUTHORITY STANDARDS, SPECIFICATIONS AND REQUIREMENTS.
13. EXISTING SERVICES RELEVANT TO THE PROJECT HAVE BEEN CONSIDERED THROUGHOUT DESIGN AND IS BASED ON SURVEY INFORMATION PROVIDED BY THE SURVEYOR AND THE CONTRACTOR. THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ HAVE RELIED UPON THIS INFORMATION TO INFORM THE DESIGN. THE CONTRACTOR SHALL VERIFY THE POSITION OF ANY UNDERGROUND SERVICES WITHIN THE AREAS OF WORKS AND SHALL BE RESPONSIBLE FOR MAKING GOOD ANY DAMAGE THERETO. ANY ALTERATION WORKS TO SERVICES WILL BE CARRIED OUT ONLY BY THE SERVICE OWNER AUTHORITY UNLESS APPROVED OTHERWISE.
14. PRIOR TO COMMENCING WORK, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL RELEVANT LOCAL AUTHORITY PERMITS.
15. THE CONTRACTOR SHALL NOT COMMENCE THE DEMOLITION OF ANY EXISTING BUILDINGS AND/OR STRUCTURES WITHOUT APPROVAL FROM THE SUPERINTENDENT.
16. THE CONTRACTOR SHALL APPLY INDUSTRY BEST PRACTICE SO WORKS SHALL NOT DISTURB OR AFFECT NEARBY RESIDENTS EITHER BY DUST, NOISE, FLOODING OR DISCONNECTION OF SERVICES. CONTRACTOR TO ENSURE THAT ACCESS AND SERVICES TO EXISTING PROPERTIES ARE AVAILABLE AT ALL TIMES.
17. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POT HOLE INFORMATION PROVIDED BY THE SURVEYOR AND/OR CONTRACTOR AT THE TIME OF DESIGN. PRIOR TO COMMENCEMENT OF WORKS, THE CONTRACTOR SHALL VERIFY LEVELS OF EXISTING SERVICE CROSSINGS AND CONNECTION POINTS AND NOTIFY THE RPEQ WHO CERTIFIED THE DESIGN OR THE PRINCIPAL'S CONSTRUCTION RPEQ OF ANY DISCREPANCIES BETWEEN ACTUAL AND PROPOSED DESIGN LEVELS. THE CERTIFICATION OF THIS DESIGN IS BASED ON SURVEY AND POT HOLE INFORMATION PROVIDED BY THE SURVEYOR AND CONTRACTOR AT THE TIME OF DESIGN.
18. THESE ENGINEERING DRAWINGS ARE TO BE READ IN CONJUNCTION WITH THE APPROVED VEGETATION MANAGEMENT PLAN, WHERE APPLICABLE. WHEN IN DOUBT, ALL EXISTING TREES ARE TO REMAIN UNLESS DIRECTED OTHERWISE.
19. THE CONTRACTOR SHALL NOTE DURING THE COURSE OF THE WORKS WHEN JOINT INSPECTIONS WITH THE AUTHORITY AND THE SUPERINTENDENT ARE REQUIRED. THESE INCLUDE PRE-STARTS, SUBGRADES, PRE-SEALS, CLEARING, AND OTHER SUCH INSPECTIONS AS NOMINATED DURING THE PRE-START, IN THE APPROVAL AND THE SPECIFICATIONS. THE CONTRACTOR SHALL ENSURE NO WORKS PROCEED PAST THE INSPECTION POINT UNTIL THE JOINT INSPECTION HAS BEEN SUCCESSFULLY COMPLETED.
20. ALL EXISTING ROADS THAT ARE DISTURBED DURING THE WORKS ARE TO BE REINSTATED

1. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE SEQ SERVICE PROVIDER AT THE DEVELOPER'S COST.
2. SEWERS SHALL BE DISUSED/ABANDONED IN ACCORDANCE WITH PROCEDURE SET OUT IN THE GRAVITY SEWER CODE.
3. DETECTABLE MARKER TAPE SHALL BE USED FOR ALL SEWER PIPES (EXCEPT FOR PIPE IN A STEEL ENVELOPER PIPE) IN ACCORDANCE WITH SEQ STANDARD DRAWING SEQ-SEW-1200 SERIES AND SEQ CODE STANDARDS.
4. CONCRETE FOR MH CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH REQUIREMENT OF CALCAREOUS AGGREGATES.
5. CONSTRUCTION OF PAVEMENT IN UNSEALED ROAD SHOULDERS SHALL BE IN ACCORDANCE WITH SEQ STANDARD DRAWING SEQ-SEW-1205-1.
6. FOR CAST-IN-SITU MAINTENANCE HOLES, COPING AND ANCHOR BRACKETS TO BE AS PER SEQ-SEW-1301-1, WITH AMENDMENTS AS SHOWN ON DETAIL DRAWING FOR PE LINED MANHOLES NECKS
 - TOP SLAB REINFORCEMENT TO BE AS PER SEQ-SEW-1301-26-A
7. FOR POLYETHYLENE LINER (PE LINER) MAINTENANCE HOLES REFER TO SEQ-SEW-1101-6 A FOR INSTALLATION REQUIREMENTS



TYPE 3 SUPPORT
(NTS)



TYPE 4 SUPPORT - WITH GEOTEXTILE
(NTS)

8. WHERE CONNECTING TO EXISTING PIPEWORK, THE LEVEL AND DIAMETER OF THE EXISTING PIPEWORK, SHALL BE CONFIRMED BY THE CONTRACTOR, PRIOR TO CONNECTION.
9. ALL FLANGES SHALL BE IN ACCORDANCE WITH AS 4087, CLASS 14 FOR CAST IRON AND, CLASS 16 FOR DUCTILE IRON AND STEEL, UNO.
10. ALL BACKING PLATES, NUTS, BOLTS AND WASHERS TO BE A MINIMUM GRADE 316 STAINLESS STEEL. COAT THE THREADED SECTIONS OF ALL STAINLESS STEEL BOLTS WITH AN ANTI-SEIZE LUBRICANT
11. INSTALL VALVE IDENTIFICATION CAP ON ALL SPINDLES.
12. GASKET MATERIAL TO COMPLY WITH AS4087 AND IN ACCORDANCE WITH WSA 109.
13. ALL FLANGE BOLT HOLE ORIENTATIONS SHALL BE OFF-CENTRE UNO.
14. ALL FLANGE BOLT SETS SHALL BE GRADE 316 STAINLESS STEEL. REFER AS 4087 - TABLE C1 FOR CLASS.
15. FLANGE GASKET MATERIAL AND THICKNESS SHALL BE IN ACCORDANCE WITH AS 4087 - TABLE C1.
16. THRUST AND PUDDLE FLANGES SHALL BE CAST CENTRALLY WITHIN WALLS UNLESS SHOWN OTHERWISE.
17. ALL SPIGOT AND SOCKET DI CL PIPEWORK SHALL BE CLASS PN35.
18. ALL GATE AND REFLUX VALVES SHALL BE INTERNALLY AND EXTERNALLY COATED WITH A POLYMERIC COATING. ALL GATE VALVES SHALL BE RESILIENT SEATED. ALL REFLUX VALVES SHALL BE RESILIENT SEATED SWING FLEX CHECK VALVE OR SIMILAR APPROVED TOP OPENING VALVE.
19. DUCTILE IRON FITTINGS MAY BE USED WITH DI & PVC PIPE. FITTINGS SHALL BE FBE COATED AND LINED. CEMENT LINED WITH A BITUMINOUS EXTERNAL COATING MAY BE USED WITH APPROVAL. DO NOT USE PVC FITTINGS.
20. PE SLEEVING, COLOURED FOR THE PRODUCT IS REQUIRED ON ALL DI PIPE AND FITTINGS APPLIED IN ACCORDANCE WITH AS 3681. TWO THICKNESS REQUIRED BETWEEN FITTINGS AND THRUST BLOCK. REINSTATE ANY DAMAGED SLEEVING AS PER MANUFACTURER'S SPECIFICATIONS.
21. DI SPIGOTS SHALL NOT BE FITTED INTO PVC SOCKETS.

1. PVC PIPE SHALL NOT BE IN CONTACT WITH THRUST BLOCK CONCRETE.
2. MAXIMUM SIZE OF DRILLED HOLES FOR SERVICE CONNECTIONS IN PVC PIPE TO BE 30% OF DN OR 50 (LOWER VALUE TO BE USED).
3. PVC PIPE SHALL NOT BE BENT OR CURVED

1. PLACEMENT OF EMBEDMENT, TRENCHFILL & COMPACTION TO MEET THE REQUIREMENTS OF THE SEQ CODE AND DESIGN DRAWINGS.
2. EXCAVATE OR COMPACT TRENCH FLOOR TO PROVIDE A FLAT FIRM BASE TO SUPPORT BEDDING MATERIAL AND MINIMISE PIPELINE SETTLEMENT. WHEN EXCAVATED, REPLACE WITH GRANULAR MATERIAL AS SPECIFIED FOR BEDDING OR ADOPT SUPPORT AS REQUIRED.
3. WHERE ADDITIONAL SUPPORT IS REQUIRED THIS SHALL BE REFERRED TO GEO-TECHNICAL ENGINEER FOR REVIEW. SUPPORT SHALL BE INSTALLED AT A MINIMUM DEPTH OF 300 WITH A 20mm NOMINAL SIZE CRUSHED ROCK COMPLYING WITH TABLE G2 OR G3 OF AS2566.2. ADDITIONAL BEDDING SHALL BE WRAPPED WITH GEOTEXTILE TO FORM A SEPARATE GEOTEXTILE PILLOW FOUNDATION FOR PIPE EMBEDMENT.
4. ENSURE BEDDING IS DEEP ENOUGH THAT PIPE JOINT PROJECTIONS (SOCKETS, FLANGES) DO NOT TOUCH TRENCH FLOOR.
5. GEOTEXTILE BIDIM A24 OR APPROVED EQUIVALENT TO BE USED WHERE TRENCH FILL IS A MIGRATORY NATIVE SOIL OR SAND OR FINE CLAY MATERIAL, AND WHERE SPECIFIED IN THE DESIGN.
6. LAY GEOTEXTILE FILTER FABRIC AGAINST TRENCH FLOOR AND WALLS SUCH THAT IT FULLY ENCASES THE EMBEDMENT AND SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 - PRESS FABRIC INTO THE VOIDS BEFORE INSTALLING EMBEDMENT TO PREVENT FABRIC TEARING.
 - PROVIDE A MINIMUM OF 250 OVERLAP AT ALL FABRIC JOINTS.
7. PURCHASE SPECIFICATIONS FOR EMBEDMENT MATERIAL ARE DETAILED IN THE SEQ CODE ACCEPTED PRODUCTS AND MATERIALS LIST. TRENCH FILL SHALL COMPLY WITH SEQ-SEW-1200-2. 10. DETECTABLE MARKER TAPE SHALL BE PROVIDED EITHER ABOVE THE EMBEDMENT ZONE OR 1000 BELOW THE F.S.L, WHICHEVER IS CLOSEST TO F.S.L
8. MARKER TAPE SHALL BE DETECTABLE TYPE IN ACCORDANCE WITH IPAM LIST, COLOUR CREAM FOR NON-PRESSURE AND PRESSURE SEWERAGE. THE TAPE SHALL BE MARKED "CAUTION SEWER BURIED BELOW"
9. TEMPORARY OR SHORT TERM BATTERS (UP TO 4 WEEKS) CAN BE CONSTRUCTED TO THE GRADIENTS PRESENTED IN TABLE 7 OF REPORT 8043 – 24-231.
10. USE TYPE 4 EMBEDMENT WITH GEOFABRIC WRAPPING IN ALL DISPERSIVE/FILL AREAS.
11. WRAPPING MUST FULLY ENCAPSULATE BEDDING WITH 250mm OVERLAP AT JOINTS.
12. TRENCH BASE TO ACHIEVE MINIMUM BEARING PRESSURE OF 100kPa UNLESS OTHERWISE SPECIFIED.
13. BACKFILL COMPACTED TO 95 TO 98% STANDARD COMPACTION PER AS3798 AND VERIFIED TO LCC REQUIREMENTS.
14. THRUST BLOCKS TO HAVE A MINIMUM HORIZONTAL BEARING PRESSURE ALLOWANCE OF 50kPa.

Approval no: DEV2012/403/314
Condition no: 20b
Date: 14-Apr-26



NAME OF ESTATE		FLAGSTONE CITY - CONTEXT AREA 3
SUBDIVIDER		LOGAN WATER
SP APPLICATION No.		***
SP APPROVAL DATE		***
DRAWING/PLAN No.		23-0202 (1700-1722)
AREA		6.95 ha
LENGTH OF SEWERS	Ø225 uPVC SN8	1402m
	Ø150 uPVC SN8	170m
	Ø525 PP SN10	388m

VEGETATION PROTECTION

1. TREES LOCATED ALONG THE FOOTPATH SHALL BE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
2. WHEN WORKING WITHIN 4 m OF TREES, RUBBER OR HARDWOOD GIRDLES SHALL BE CONSTRUCTED WITH 1.8 m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIRDLES SHALL BE STRAPPED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
3. TREE ROOTS SHALL BE TUNNELED UNDER, RATHER THAN SEVERED. IF ROOTS ARE SEVERED THE DAMAGED AREA SHALL BE TREATED WITH A SUITABLE FUNGICIDE. CONTACT RELEVANT COUNCIL ARBORIST FOR FURTHER ADVICE.
4. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.
5. ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

1. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
2. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
3. THE CONTRACTOR SHALL HAVE READ THE GEOTECHNICAL REPORT.
4. THE CONTRACTOR SHALL HAVE READ THE DISPERSIVE SOILS MANAGEMENT PLAN.

1. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
2. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
3. NO SOIL SHALL BE STOCKPILED WITHIN 5 m OF THE CREEK OR WATER WAY.

1. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
2. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

1. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION
2. THE SAFETY IN DESIGN, DESIGN AND RISK MITIGATION MEASURES FOR THESE DRAWINGS DO NOT NECESSARILY ACCOUNT FOR ALL DESIGN, CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION ASSESSMENTS. IT DOES NOT REDUCE OR LIMIT THE OBLIGATIONS OF THE CONSTRUCTOR, USER, OPERATOR, MAINTAINER AND DEMOLISHER TO PERFORM THEIR OWN SAFETY IN DESIGN RISK ASSESSMENT.
3. DEVELOP CONSTRUCTION AND INSTALLATION SAFE WORK METHOD STATEMENTS TO ELIMINATE AND MINIMISE INSTALLATION RISKS. THE SAFE METHOD STATEMENT SHALL BE REVIEWED AND APPROVED BY A SUITABLY QUALIFIED STRUCTURAL ENGINEER

1. ALL DIMENSIONS IN MILLIMETERS.
2. BEDDING MATERIAL SHALL BE A SINGLE SIZED 5mm OR 7mm NOMINAL SIZE CRUSHED ROCK COMPLYING WITH TABLE G2 OF AS2566.2.
3. IMPORTED BACKFILL MATERIAL SHALL HAVE A SOAKED CBR VALUE OF NOT LESS THAN 15% AND A MAXIMUM PARTICLE SIZE OF 75mm.
4. FLOWABLE FILL OR LEAN MIX CONCRETE SHALL BE THOROUGHLY MIXED PRIOR TO PLACEMENT WITH A CEMENT CONTENT OF 5%. SHALL CONSIST OF A GRADED SAND AND GRAVEL AGGREGATE OF 40mm MAXIMUM SIZE AND SUFFICIENT WATER TO ENSURE SLUMP OF LESS THAN 12mm.

1. FOR EACH BEDDING ZONE, BEDDING MATERIAL SHALL BE PLACED IN THE TRENCH TO THE DEPTH SHOWN ON THE DRAWINGS AND COMPACTED IN 150mm LAYERS FOR THE FULL WIDTH OF THE TRENCH BY TWO PASSES OF A VIBRATING PLATE.
2. TRENCH BACKFILL ABOVE BEDDING ZONE SHALL BE COMPACTED IN ACCORDANCE WITH THE BELOW TABLE U.N.O.

MATERIAL TYPE	TRAFFICABLE AREA	NON-TRAFFICABLE AREA
COHESIONLESS (DENSITY INDEX)	70	60
COHESIVE (STD COMPACTION)	95	90

3. SINGLE SIZE COARSE AGGREGATES OF SIZES 7 & 10 mm ARE DEEMED "SELF-COMPACTING" AND DO NOT REQUIRE COMPACTION TESTING WHEN USED AS EMBEDMENT U.N.O.
4. THE INSTALLED MAIN AND STRUCTURES SHALL CONFORM WITH THE CONSTRUCTION TOLERANCES NOMINATED WITHIN SEQ-CODE.
SPRING LINE CLEARANCE

NOMINAL DIAMETER (DN)	MINIMUM CLEARANCE "Lc" TO AS/NZ 2566.1
≤300	150
>300 - ≤450	200
>450 - ≤900	300

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION

ALL ENVIRONMENTAL PROTECTION MEASURES SHALL BE IMPLEMENTED PRIOR TO ANY CONSTRUCTION WORK COMMENCING, INCLUDING CLEARING

ALL WATER AND SEWERAGE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF THE QUEENSLAND WORK HEALTH AND SAFETY ACT 2011. CONTACT THE DIVISION OF WORKPLACE HEALTH AND SAFETY FOR INFORMATION. PHONE 1300 362 128

REV	DATE	DESIGN	DRAWN	REVISION DETAILS	DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE			
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION	JR	ISSUED FOR CONSTRUCTION			PEET FLAGSTONE CITY Pty. Ltd.	FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4	FLAGSTONIAN DRIVE FLAGSTONE	PROJECT No. 23-0202	DRAWING No. 1701	REVISION 1
1	31.07.25	TR	JR	NOTES AMENDED										

MAINTENANCE HOLES – DESIGN REQUIREMENT

1. DESIGN AND CONSTRUCTION OF ALL SEWERAGE INFRASTRUCTURE SHALL BE RPEQ CERTIFIED.
2. TOP SLABS HAVE BEEN DESIGNED FOR THE FOLLOWING LIVE LOADS AND LOCATIONS

LOCATION	LIVE LOAD	ACCESS COVER TO AS 3996
RESERVES, RESIDENTIAL ALLOTMENTS, FOOTPATHS AND VERGES	25 kN	CLASS RATING B
ROADWAYS AND DRIVEWAYS, COMMERCIAL, INDUSTRIAL AND NON-RESIDENTIAL ALLOTMENTS	80 kN	CLASS RATING D

- DESIGN LIFE 100 YEARS
- DEAD LOAD AS DETERMINED FROM SEQ SEWER CODE STANDARD DRAWINGS.
- LIVE LOADS TO AS 1170.1 AND AS 5100.2
3. DURABILITY CLASSIFICATION

STRUCTURE	COVER LOCATION	EXPOSURE CLASSIFICATION AS3600, AS3735	REINFORCEMENT COVER (mm)
SLABS	TOP	B2 TO AS3600-	40
	BOTTOM	B2 TO AS3735	50 INCLUDING PE LINER THICKNESS

4. SEQ CODE SEWER MH STANDARD DRAWINGS THAT ARE APPLICABLE TO LOGAN WATER HAVE ASSUMED THAT A MINIMUM SOIL BEARING PRESSURE OF 50 KPA CAN BE ACHIEVED. RESPONSIBILITY FOR ALL ASPECTS OF THE DESIGN AND CONSTRUCTION OF SEWER INFRASTRUCTURE RESTS SOLELY WITH THE CERTIFYING RPEQ.
5. SEQ CODE SEWER MH STANDARD DRAWINGS THAT ARE APPLICABLE TO LOGAN WATER HAVE ASSUMED THAT A MINIMUM SOIL BEARING PRESSURE OF 50 KPA CAN BE ACHIEVED. RESPONSIBILITY FOR ALL ASPECTS OF THE DESIGN AND CONSTRUCTION OF SEWER INFRASTRUCTURE RESTS SOLELY WITH THE CERTIFYING RPEQ.

MAINTENANCE HOLES - GENERAL

1. THESE NOTES RELATE TO ALL TOP SLABS AND CAST-INSITU MAINTENANCE HOLES FOR LOGAN WATER.
2. MAINTENANCE HOLE TOP SLABS SHALL BE PRECAST ELEMENTS.
3. DIMENSIONS IN MILLIMETRES U.N.O.
4. DIMENSIONS NOT TO BE SCALED FROM DRAWINGS.
5. VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK ON SITE.
6. MATERIALS AND WORKMANSHIP TO COMPLY WITH THE CURRENT STANDARDS AUSTRALIA CODES, BUILDING CODE OF AUSTRALIA, SEW CODE, WSAA PRODUCT SPECIFICATIONS, BY-LAWS AND ORDNANCES OF RELEVANT BUILDING AUTHORITIES. EXISTING STRUCTURES TO BE MAINTAINED IN A STABLE CONDITION AND NO PART TO BE OVER-STRESSED DURING CONSTRUCTION.
8. ADDITIONAL SITE EXAVATION SHALL OCCUR UNTIL SUITABLE FOUNDATION MATERIAL IS LOCATED. ALL OVEREXCAVATION SHALL BE REPLACED WITH A LEAN MIX CONCRETE OR C.L.S.M.

MAINTENANCE HOLES

1. MAINTENANCE HOLES SHALL BE LOCATED CENTRALLY OVER SEWERS UNLESS SPECIFIED OTHERWISE. REFER DRAWINGS SEQ-SEW-1304-1 AND SEQ-SEW-1305-1
2. OBVERT LEVEL OF THE UPSTREAM SEWER PIPE SHALL ALWAYS BE ABOVE THE OBVERT LEVEL OF THE DOWNSTREAM SEWER PIPE UNLESS APPROVED OTHERWISE.
3. ALL CONSTRUCTION JOINTS SHALL INCLUDE HYDROPHILIC SEALS INSTALLED TO MANUFACTURER'S SPECIFICATIONS.
4. MAINTENANCE HOLE CONNECTORS, INCLUDING HYDROPHILIC SEALS AND PUDDLE FLANGES SHALL BE THE PRE-FABRICATED TYPE UNLESS APPROVED OTHERWISE.
5. ENDS OF SEWER PIPES SHALL FINISH FLUSH WITH THE INSIDE FACE OF MAINTENANCE HOLE WALL.
6. FINISHED BENCHING SHALL PROVIDE A SMOOTH NON-TURBULENT FLOW.
7. SAFETY CHAINS AND ALL CONNECTIONS SHALL BE STAINLESS STEEL GRADE 316.
8. PROPERTY CONNECTION JUNCTIONS SHALL NOT BE CONSTRUCTED ON SHORT PIPES AT MAINTENANCE HOLES OR BULKHEADS.

MAINTENANCE HOLE CIRCULAR ACCESS COVERS

1. CIRCULAR ACCESS COVERS AND FRAMES SHALL BE RATED TO CLASS RATING B OR CLASS RATING D TO AS 3996.
2. PRODUCT CERTIFICATION TO AS 3996 SHALL BE SUPPLIED FOR EACH COVER ASSEMBLY.
3. COVERS, FRAMES AND RISER RINGS, WHERE REQUIRED, SHALL BE SUPPLIED ASSEMBLED.
4. COVERS SHALL BE SOLID TOP. IN LOGAN WATER AREAS ONLY, CLASS B CONCRETE INFILL COVERS MAY BE USED.
5. COVERS SHALL HAVE IDENTIFICATION TAGS DETAILING, SEWER / VACUUM SEWER / CLASS RATING B, D / SEALED / COVER PATTERN DETAIL /SEQ-SP NAME / WEIGHT.
6. BOLT DOWN COVERS SHALL BE PROVIDED IN FLOOD PRONE AREAS, STORM SURGE AREAS, SURCHARGING SEWERS AND WHERE SPECIFIED IN THE DESIGN.
7. BOLT DOWN COVER FRAMES TO BE FIXED TO THE TOP SLAB WITH 4 M16 STAINLESS STEEL CHEMICAL ANCHORS. EMBEDMENT LENGTH SHALL BE MINIMUM 110 mm UNLESS APPROVED OTHERWISE.

CONCRETE

1. CONCRETE WORKMANSHIP AND MATERIALS TO COMPLY WITH AS 3600 AND AS 3610
2. CONCRETE TO COMPLY WITH AS 1379, AS 1478.1, AS 1478.2, AS 3582.1, AS 3582.2, AS 3582.3 AND AS 3972.
3. SLUMP TO BE AS REQUIRED FOR PLACEMENT, COMPACTION AND FINISHING. A SAMPLE OF FRESH CONCRETE SHALL BE TESTED FOR SLUMP AND STRENGTH UPON ARRIVAL ON SITE.
4. WATER NOT TO BE ADDED TO CONCRETE AFTER TRUCK HAS LEFT BATCHING PLANT UNLESS APPROVED OTHERWISE.
5. TEST SLUMP OF EACH BATCH OF CONCRETE DELIVERED.
6. DESIGN, CERTIFICATION, CONSTRUCTION AND PERFORMANCE OF FORMWORK BY CONTRACTOR.
7. CONCRETE CONSTRUCTION TOLERANCES TO AS 3610.
8. CONCRETE SIZES DO NOT INCLUDE FINISHES. SIZES NOT TO BE REDUCED OR PENETRATIONS ADDED.
9. CONDUITS, PIPES, ETC. NOT TO BE PLACED IN CONCRETE COVER TO THE REINFORCEMENT.
10. EXPOSED EDGES AND RE-ENTRANT CORNERS TO HAVE 25 MM CHAMFERS OR FILLETS UNLESS NOTED OTHERWISE.
11. CONSTRUCTION JOINTS AS DETAILED AND LOCATED ON DESIGN DRAWINGS.
12. CONCRETE SURFACE FINISHES TO AS 3610. FORMED EXPOSED SURFACES - CLASS 2
13. CONCRETE TEMPERATURE NOT TO EXCEED TEMPERATURES STATED BELOW.

CONCRETE STRUCTURE	CONCRETE STRENGTH	TEMPERATURE LIMIT
CONCRETE SECTIONS LESS THAN 600mm THICK	EQUAL TO OR MORE THAN 40MPa	35°C
CONCRETE SECTIONS EQUAL TO OR GREATER THAN 600mm THICK	EQUAL TO OR MORE THAN 40 MPa	27°C

14. CONCRETE CURING TO AS3600 AS SOON AS POSSIBLE AFTER PLACING AND FINISHING.
15. CONCRETE GRADE S40.

TYPE OF AGGREGATE	CALCAREOUS
COMPRESSIVE STRENGTH AT 28 DAYS	40 MPa
MIN. CEMENT CONTENT	380 kg/m ³
MAX. CEMENTITIOUS MATERIAL	25%
MAX W/C RATIO	0.5
NOMINAL SLUMB	80 mm±15
DRYING SHRINKAGE AT 21 DAYS	500 x 10 ⁻⁶
MAXIMUM AGGREGATE SIZE	20 mm
MINIMUM AGGREGATE SIZE	10 mm

16. CONCRETE SHALL BE SPECIAL CLASS TO WSA-PS 358 WITH CALCAREOUS AGGREGATE.
17. BENCHING FINISH SHALL CONSIST OF EQUAL PARTS OF CEMENT AND SAND.
18. HOLD POINT: ONCE THE BASE OF MANHOLES HAVE BEEN POURED, CONSTRUCTION SHALL ONLY RE-COMMENCE ONCE THE SUPERINTENDENT AND/OR ENGINEER HAVE INSPECTED THE WORKS

REINFORCEMENT

1. REINFORCEMENT FOR THE TOP SLABS SHALL BE A PREFABRICATED ELEMENT.
2. REINFORCEMENT TO COMPLY WITH AS4671.
3. SYMBOLS ON DRAWINGS FOR GRADE AND TYPE OF REINFORCEMENT ARE:
- R - STRUCTURAL GRADE 250 PLAIN ROUND BARS
 - N - HOT ROLLED GRADE 500 DEFORMED BAR, DUCTILITY CLASS N
 - L - HOT ROLLED GRADE 500 DEFORMED BAR, DUCTILITY CLASS L
 - SL - HARD DRAWN WIRE GRADE 500 MESH, DUCTILITY CLASS L
 - RL - HARD DRAWN WIRE GRADE 500 MESH, DUCTILITY CLASS L
 - W - STEEL REINFORCING WIRE GRADE 500
4. REINFORCEMENT DESIGNATION AS FOLLOWS (e.g. 14/N16-250 EF)
- 14 - NUMBER OF BARS
 - N - BAR GRADE AND DUCTILITY CLASS
 - 16 - BAR DIAMETER IN mm
 - 250 - SPACING OF BARS IN mm
 - EF - LOCATION
5. ABBREVIATIONS TO REINFORCEMENT LOCATION:
- EW - EACH WAY
 - EF - EACH FACE
 - B - BOTTOM
 - T - TOP
 - CP - CENTRALLY PLACED
6. REINFORCEMENT IS SHOWN DIAGRAMMATICALLY ONLY AND NOT NECESSARILY IN TRUE PROJECTION.
7. REINFORCEMENT TO BE FIXED SECURELY AND SUPPORTED ON PROPRIETY CONCRETE, METAL OR PLASTIC SUPPORTS.
8. REINFORCEMENT TO BE SPliced AS SHOWN ON PROJECT DRAWINGS. LAP LENGTHS TO COMPLY WITH AS 3600 AND TABLE BELOW U.N.O.

BAR SIZE	LAP LENGTH (mm)
N12	350
N16	500
N20	600
N24	700
N28	850
N32	950

9. REINFORCEMENT NOT TO BE WELDED UNLESS SHOWN ON PROJECT DRAWINGS OR APPROVED OTHERWISE.
10. REINFORCEMENT NOT TO BE BENT, CUT OR HEATED ON SITE UNLESS APPROVED OTHERWISE.
11. REINFORCEMENT TO BE CLEAN, FREE OF MILL SCALE, RUST, OIL, GREASE ETC.
12. DOWEL LOCATION TOLERANCE SHALL BE +/- HALF THE DIAMETER OF THE DOWEL. THE ALIGNMENT TOLERANCE SHALL BE 2 mm IN 300 mm.

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314

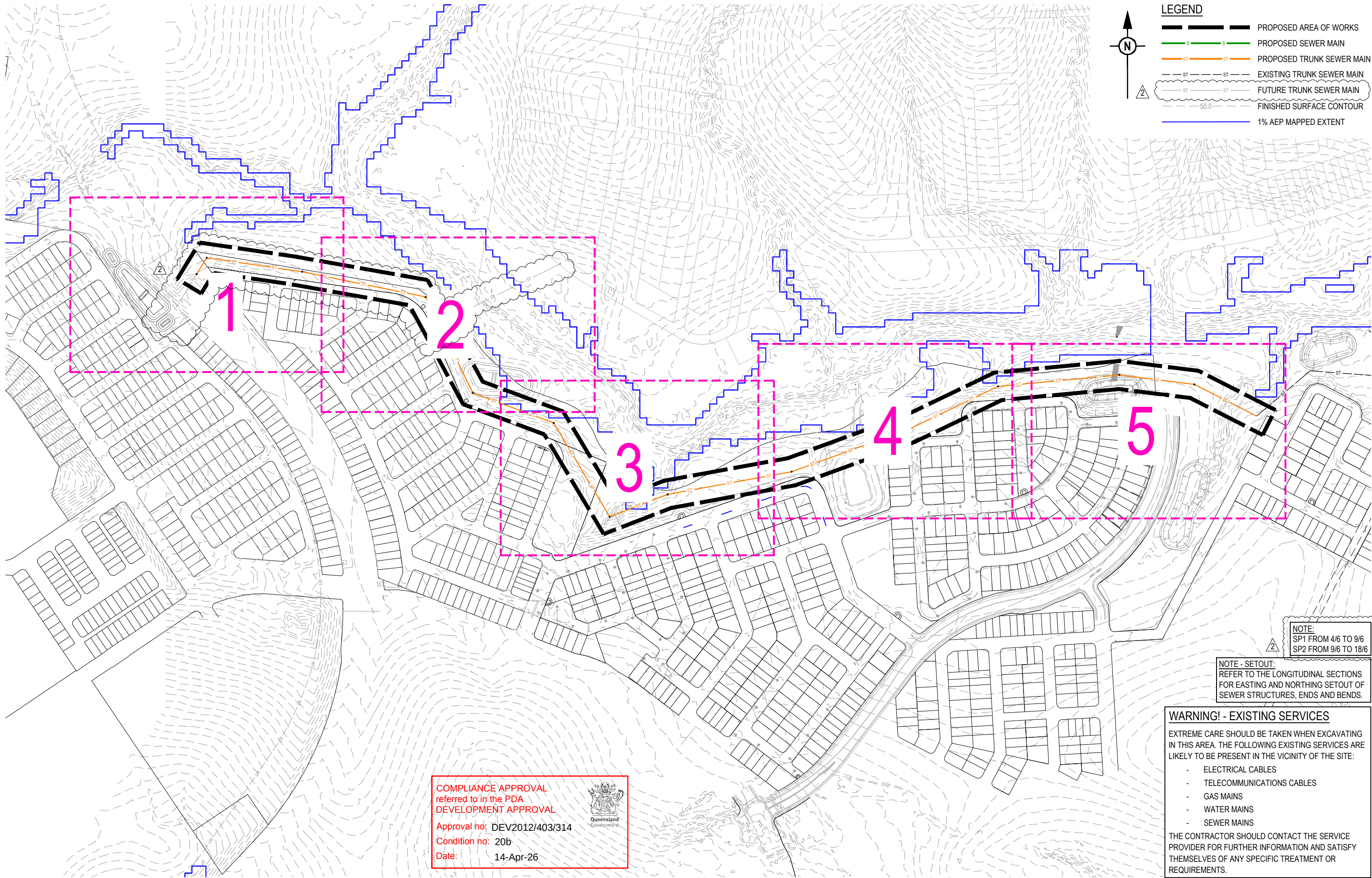
Condition no: 20b

Date: 14-Apr-26



REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT PEET FLAGSTONE CITY Pty. Ltd.	PROJECT NAME FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4	DRAWING TITLE TRUNK SEWER MAIN MH CONSTRUCTION NOTES SHEET 1 OF 2		
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION		JR						PROJECT No. 23-0202		
1	31.07.25	TR	JR	DRAWING NUMBER AMENDED				APPROVED DANIEL COLLINS <i>[Signature]</i> RPEQ 18631 FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD		ASSOCIATED CONSULTANT VERIS PHONE: (07) 3666 4700	FLAGSTONIAN DRIVE FLAGSTONE	DRAWING No. 1702		
						TR						REVISION 1		

PLOT: 31 JUL 2025 02:37 PM LOCATION: H:\2323-2023 Flagstone - Stage 4A & 4B Design\4a\4a03-002-1710\TRUNK SEWER LAYOUT & L.SJ.dwg



COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL
Approval no: DEV2012/403/314
Condition no: 20b
Date: 14-Apr-26



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	29.04.25	DC	JR	LIVE CONNECTION ADDED FOR SP2
2	31.07.25	TR	JR	ALIGNMENT AMENDED

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
TR	DANIEL COLLINS RPEQ 18631
FOR AND ON BEHALF OF COLLIERS INTERNATIONAL ENGINEERING & DESIGN PTY LTD	

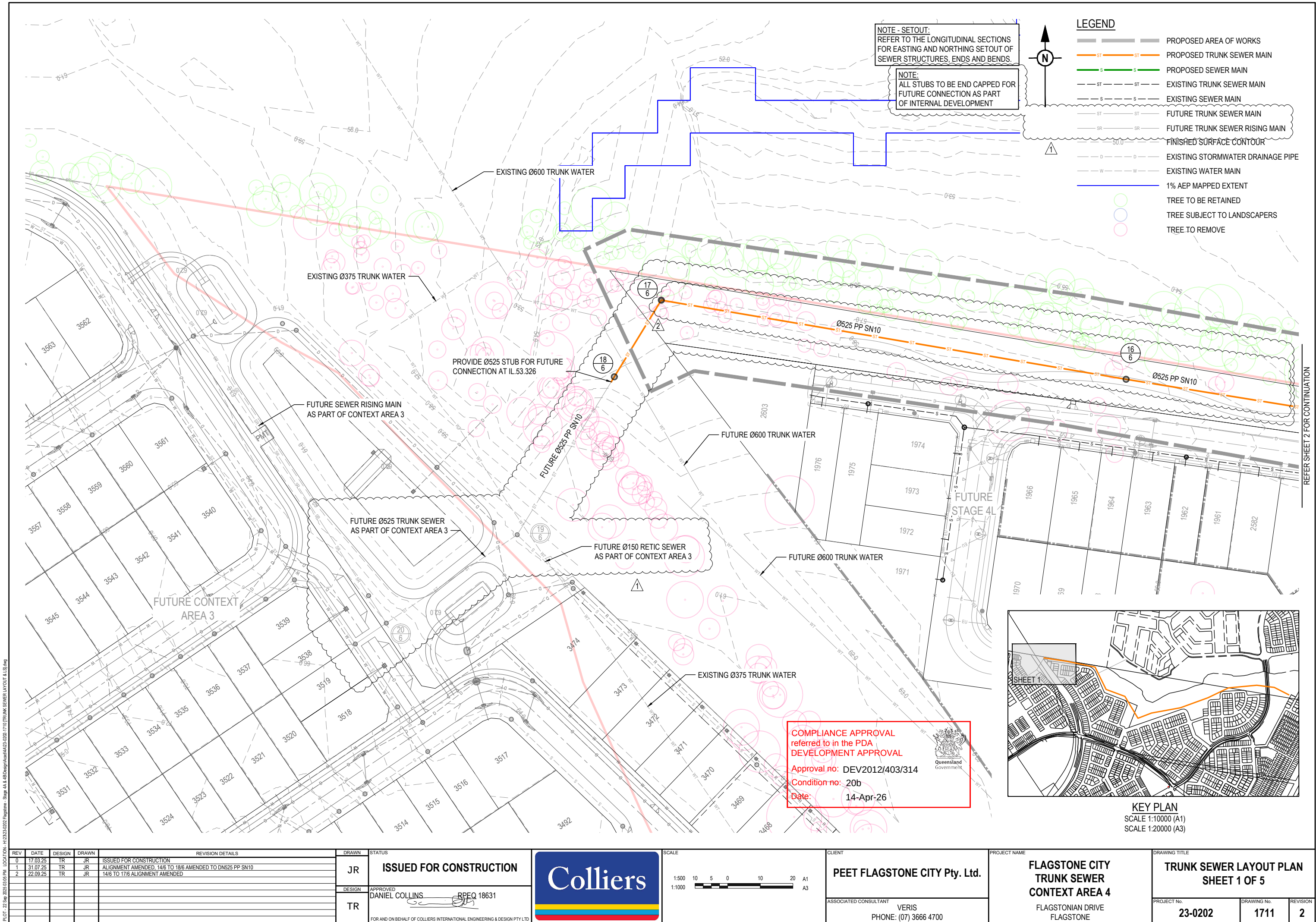


SCALE
1:2500 50 0 50 100 A1
1:5000

CLIENT
PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT
VERIS PHONE: (07) 3666 4700

PROJECT NAME
FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4
FLAGSTONIAN DRIVE FLAGSTONE

DRAWING TITLE		
TRUNK SEWER OVERALL LAYOUT PLAN		
PROJECT No.	DRAWING No.	REVISION
23-0202	1710	2



PLOT: 22 Sep 2025 03:05 PM LOCATION: H:\2023\2025 Flagstone - Stage 4A & 4B Design\Area4A\23-0202-1710 TRUNK SEWER LAYOUT 4A.dwg

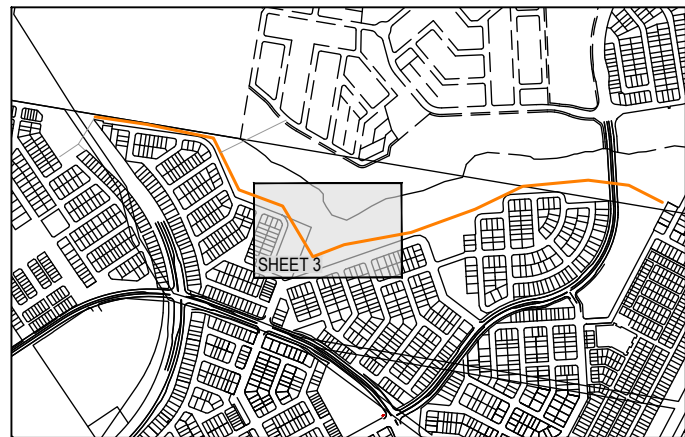
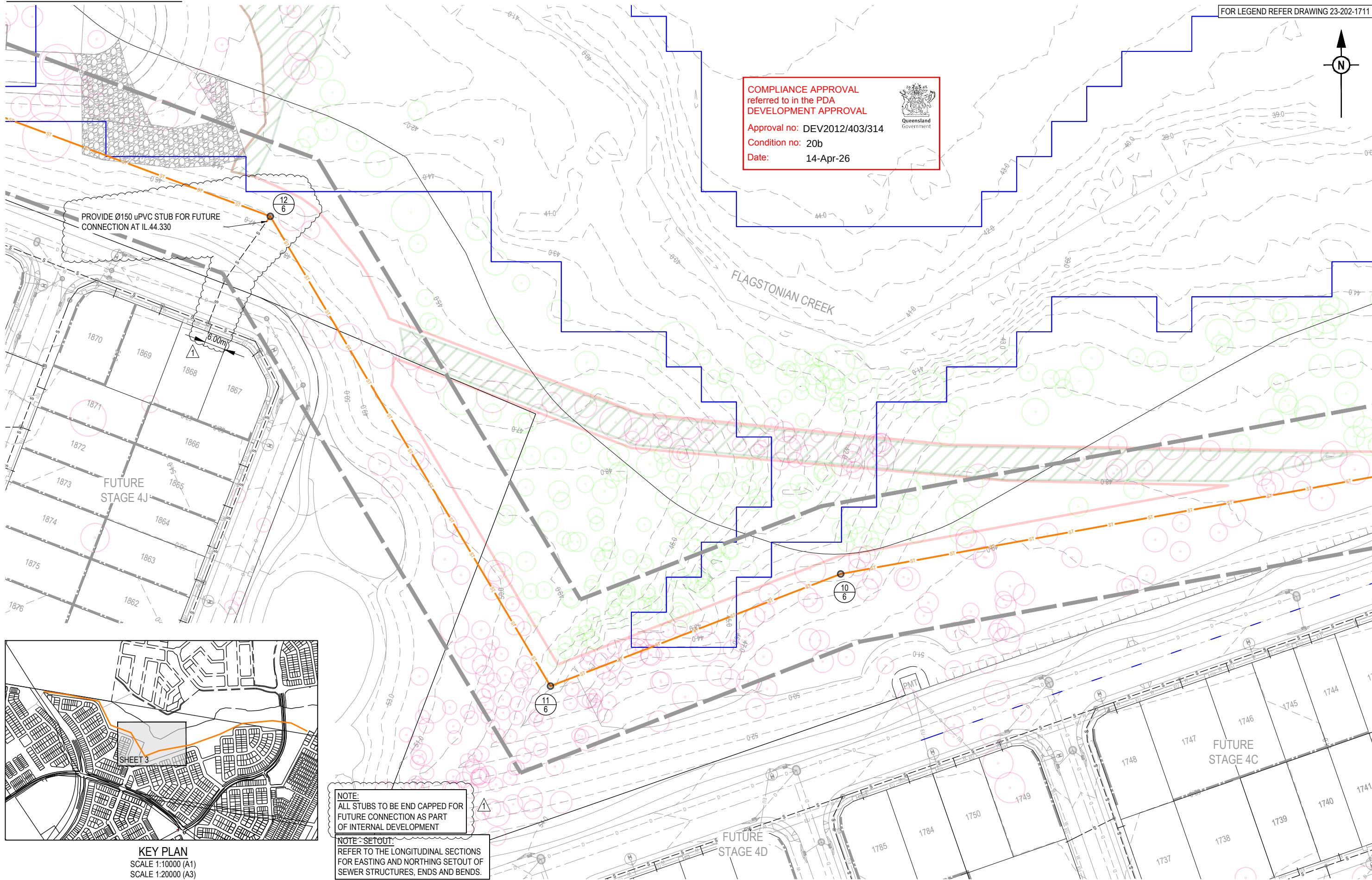
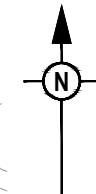
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REFER SHEET 2 FOR CONTINUATION

FOR LEGEND REFER DRAWING 23-202-1711

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314
Condition no: 20b
Date: 14-Apr-26



KEY PLAN
SCALE 1:10000 (A1)
SCALE 1:20000 (A3)

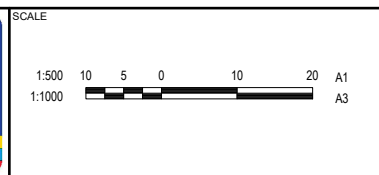
NOTE:
ALL STUBS TO BE END CAPPED FOR
FUTURE CONNECTION AS PART
OF INTERNAL DEVELOPMENT

NOTE - SETOUT:
REFER TO THE LONGITUDINAL SECTIONS
FOR EASTING AND NORTHING SETOUT OF
SEWER STRUCTURES, ENDS AND BENDS.

PLOT: 31 JUL 2025 02:37 PM LOCATION: H:\2323-2022 Flagstone - Stage 4A & 4B Design\Kad4A423-0202-1711\TRUNK SEWER LAYOUT & LS.dwg

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	31.07.25	TR	JR	ALIGNMENT AMENDED, 14/6 TO 18/6 AMENDED TO DN525 PP S/N10

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
TR	DANIEL COLLINS RPEQ 18631
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



CLIENT	PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT	VERIS PHONE: (07) 3666 4700

PROJECT NAME	FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4
FLAGSTONIAN DRIVE FLAGSTONE	

DRAWING TITLE	TRUNK SEWER LAYOUT PLAN SHEET 3 OF 5
PROJECT No.	23-0202
DRAWING No.	1713
REVISION	1

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

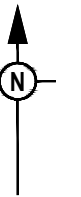
Approval no: DEV2012/403/314

Condition no: 20b

Date: 14-Apr-26



FLAGSTONIAN CREEK



FOR LEGEND REFER DRAWING 23-202-1711

PROVIDE STUB FOR FUTURE
CONNECTION AT IL.43.3

PROVIDE Ø150 uPVC STUB FOR FUTURE
CONNECTION AT IL.45.7

PROVIDE Ø150 uPVC STUB FOR FUTURE
CONNECTION AT IL.44.238

LIVE CONNECTION 2:
REFER LIVE WORKS
TABLE FOR DETAILS

NOTE:
ALL STUBS TO BE END CAPPED FOR
FUTURE CONNECTION AS PART
OF INTERNAL DEVELOPMENT

NOTE - SETOUT:
REFER TO THE LONGITUDINAL SECTIONS
FOR EASTING AND NORTHING SETOUT OF
SEWER STRUCTURES, ENDS AND BENDS.

KEY PLAN
SCALE 1:10000 (A1)
SCALE 1:20000 (A3)

REFER SHEET 3 FOR CONTINUATION

REFER SHEET 5 FOR CONTINUATION

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	29.04.25	DC	JR	LIVE CONNECTION ADDED FOR SP2
2	31.07.25	TR	JR	ALIGNMENT AMENDED, 1416 TO 1816 AMENDED TO DN525 PP-SN10

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631
TR	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



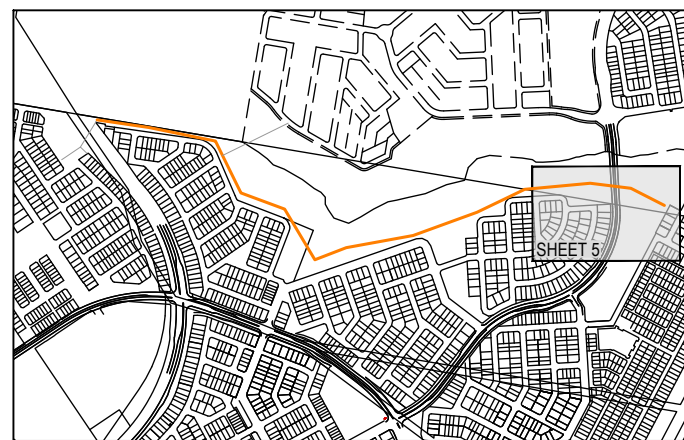
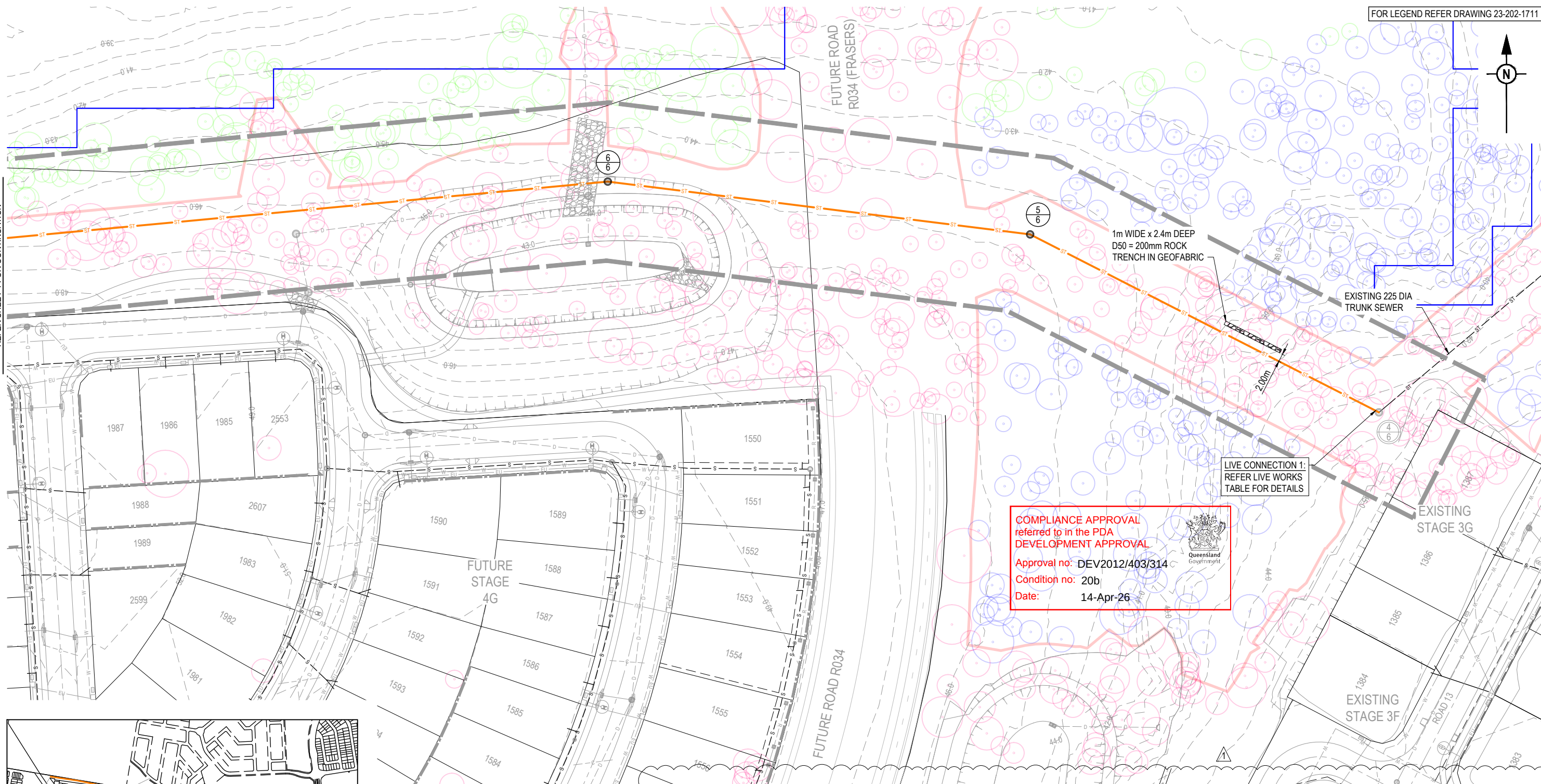
SCALE
1:500 10 5 0 10 20 A1 1:1000

CLIENT
PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT
VERIS PHONE: (07) 3666 4700

PROJECT NAME
FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4
FLAGSTONIAN DRIVE FLAGSTONE

DRAWING TITLE		
TRUNK SEWER LAYOUT PLAN SHEET 4 OF 5		
PROJECT No.	DRAWING No.	REVISION
23-0202	1714	2

REFER SHEET 4 FOR CONTINUATION



KEY PLAN
SCALE 1:10000 (A1)
SCALE 1:20000 (A3)

NOTE:
ALL STUBS TO BE END CAPPED FOR
FUTURE CONNECTION AS PART
OF INTERNAL DEVELOPMENT

NOTE - SETOUT:
REFER TO THE LONGITUDINAL SECTIONS
FOR EASTING AND NORTHING SETOUT OF
SEWER STRUCTURES, ENDS AND BENDS.

LIVE SEWER WORKS

[illegible]

REV	DATE	DESIGN	DRAWN	REVISION DETAILS		DRAWN	STATUS		SCALE	CLIENT	PROJECT NAME	DRAWING TITLE			
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION		JR	ISSUED FOR CONSTRUCTION		1:500 10 5 0 10 20 A1 1:1000  A3	PEET FLAGSTONE CITY Pty. Ltd.	FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4	TRUNK SEWER LAYOUT PLAN SHEET 5 OF 5			
1	29.04.25	DC	JR	LIVE CONNECTION ADDED FOR SP2											
2	31.07.25	TR	JR	ALIGNMENT AMENDED, 14/6 TO 18/6 AMENDED TO DN525 PP SN10											

STRUC/ BEND/ END NAME

STRUCTURE TYPE & DROP

STRUCTURE LID TYPE

JUNCTION DROP TYPE

JUNCTION LINE

3/6

4/6

5/6

6/6

7/6

8/6

DESIGN AND CONSTRUCT
BY CONTRACTOR

DESIGN AND CONSTRUCT
BY CONTRACTOR

DESIGN AND CONSTRUCT
BY CONTRACTOR

PE LINED

PE LINED

PE LINED

PE LINED

STRUCTURE TYPES

C1 = CAST-IN-SITU 1.050Ø
C2 = CAST-IN-SITU 1.200Ø
C3 = CAST-IN-SITU 1.500Ø
C4 = CAST-IN-SITU 1.800Ø
C5 = CAST-IN-SITU 2.000Ø
C6 = CAST-IN-SITU 2.400Ø

REFER TO LOGAN WATER STANDARD
DRAWING SET DRG LW-SEW-DRG-2052
MH DROP TYPES:

AS PER SEQ STD DRG SEQ-SEW-1303-1
MS DROP TYPES:

MS-V = 30mm DROP THROUGH BULB
MS-Z = >750mm DROP INTO RISER

LID TYPES

B = NON-TRAFFICABLE
D = TRAFFICABLE
D(BD) = TRAFFICABLE WITH BOLT
DOWN

NOTE: PE LINING OF MANHOLES:
PE LINING REQUIREMENTS AS PER
SEWER SEQ CODE CLAUSE 7.6.2.

EMBEDMENT NOTE:

PIPE EMBEDMENT & TRENCHFILL SHALL BE IN
ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO
1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL
FINAL GEOTECHNICAL INVESTIGATIONS ARE
COMPLETED PRIOR TO CONSTRUCTION.

DATUM R.L.

LAND USE

DIAMETER

GRADE

EMBEDMENT TYPE

DEPTH TO INVERT

JUNCTION INVERT LEVEL

SEWER INVERT LEVEL

DESIGN SURFACE LEVEL

SETOUT

RUNNING CHAINAGE

33.0

EXISTING STAGE 3

LIVE CONNECTION 1 -
REFER LIVE WORKS
TABLE FOR DETAILS

1.50m CLEARANCE

INDICATIVE FUTURE
RO34 (FRASERS) SURFACE

ROCK SCOUR PROTECTION

EXISTING SURFACE

PROPOSED SURFACE

PROVIDE Ø150 uPVC STUB FOR FUTURE
CONNECTION AT IL.43.3

PROVIDE Ø150 uPVC STUB FOR FUTURE
CONNECTION AT IL.45.7

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314

Condition no: 20b

Date: 14-Apr-26



LINE

LINE 6

PLOT: 31 JUL 2025 02:37 PM LOCATION: H:\2323-0202 Flagstone - Stage 4A & 4B Design\Area4A\23-0202-1710\TRUNK SEWER\LAYOUT & LSJ.dwg

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	31.07.25	TR	JR	SP1 ADDED

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
TR	DANIEL COLLINS RPEQ 18631
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



SCALE
1:1000 10 0 10 20 30 40 50 A1
1:2000 HORIZONTAL A3
1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

CLIENT
PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT
VERIS PHONE: (07) 3666 4700

PROJECT NAME
FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4
FLAGSTONIAN DRIVE FLAGSTONE

DRAWING TITLE		
TRUNK SEWER LONGITUDINAL SECTIONS SHEET 1 OF 4		
PROJECT No.	DRAWING No.	REVISION
23-0202	1716	1

STRUC/ BEND/ END NAME

STRUCTURE TYPE & DROP

STRUCTURE LID TYPE

JUNCTION DROP TYPE

JUNCTION LINE

8/6

DESIGN AND CONSTRUCT
BY CONTRACTOR

9/6

10/6

11/6

12/6

C3 >

PE LINED

C3 >

PE LINED

C2 >

PE LINED

C2 >

PE LINED

C2 >

PE LINED

X

X

X

FUTURE STAGE 4F

LINE 1

SP1

SP2

STRUCTURE TYPES

C1 = CAST-IN-SITU 1.050Ø
C2 = CAST-IN-SITU 1.200Ø
C3 = CAST-IN-SITU 1.500Ø
C4 = CAST-IN-SITU 1.800Ø
C5 = CAST-IN-SITU 2.000Ø
C6 = CAST-IN-SITU 2.400Ø

REFER TO LOGAN WATER STANDARD
DRAWING SET DRG LW-SEW-DRG-2052
MH DROP TYPES:

AS PER SEQ STD DRG SEQ-SEW-1303-1

MS DROP TYPES:

MS-V = 30mm DROP THROUGH BULB

MS-Z = >750mm DROP INTO RISER

LID TYPES

B = NON-TRAFFICABLE

D = TRAFFICABLE

D(BD) = TRAFFICABLE WITH BOLT
DOWN

NOTE: PE LINING OF MANHOLES:
PE LINING REQUIREMENTS AS PER
SEWER SEQ CODE CLAUSE 7.6.2.

EMBEDMENT NOTE:

PIPE EMBEDMENT & TRENCHFILL SHALL BE IN
ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO
1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL
FINAL GEOTECHNICAL INVESTIGATIONS ARE
COMPLETED PRIOR TO CONSTRUCTION.

DATUM R.L.

35.0

LAND USE

OPEN SPACE

OPEN SPACE

OPEN SPACE

OPEN SPACE

DIAMETER

Ø225uPVC SN8

Ø225uPVC SN8

Ø225uPVC SN8

Ø225uPVC SN8

GRADE

1 in 300

1 in 300

1 in 300

1 in 300

EMBEDMENT TYPE

TYPE #3

TYPE #3

TYPE #3

TYPE #3

DEPTH TO INVERT

6.845

6.815

7.032

7.002

4.530

4.500

4.876

4.836

4.073

JUNCTION INVERT LEVEL

45.700

44.238

44.238

SEWER INVERT LEVEL

39.874

39.904

40.504

40.534

41.134

41.164

41.460

41.500

42.021

DESIGN SURFACE LEVEL

46.720

47.536

47.536

45.665

46.336

46.094

SETOUT

34883.157

74743.172

34723.972

74681.718

34546.888

74649.450

34464.012

74617.444

34383.993

74751.511

RUNNING CHAINAGE

521.728

180.000

701.728

180.000

881.728

88.841

970.569

156.131

1126.701

LINE

LINE 6

1.08m CLEARANCE

SWD Ø900
CLR 0.997

ROCK SCOUR PROTECTION

EXISTING SURFACE

PROVIDE Ø150 uPVC STUB FOR FUTURE
CONNECTION AT IL.44.238

LIVE CONNECTION 2 -
REFER LIVE WORKS
TABLE FOR DETAILS

1.58m CLEARANCE

PROPOSED SURFACE

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314

Condition no: 20b

Date: 14-Apr-26



PLOT: 31-Jul-2025 02:37 PM LOCATION: H:\2323-0202 Flagstone - Stage 4A & 4B\Design\A440423-0202-1710\TRUNK SEWER\LAYOUT & L.SJ.dwg

REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	29.04.25	DC	JR	LIVE CONNECTION ADDED FOR SP2
2	31.07.25	TR	JR	ALIGNMENT AMENDED, 14/6 TO 18/6 AMENDED TO DNS25 PP-SN10

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED DANIEL COLLINS RPEQ 18631 <i>[Signature]</i>
TR	FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD



SCALE	
1:1000	10 0 10 20 30 40 50 A1
1:2000	HORIZONTAL
1:100	2 1 0 2 4 A1
1:200	VERTICAL

CLIENT	PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT	VERIS PHONE: (07) 3666 4700

PROJECT NAME	FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4 FLAGSTONIAN DRIVE FLAGSTONE
--------------	---

DRAWING TITLE	TRUNK SEWER LONGITUDINAL SECTIONS SHEET 2 OF 4
PROJECT No.	23-0202
DRAWING No.	1717
REVISION	2

STRUC/ BEND/ END NAME

STRUCTURE TYPE & DROP

STRUCTURE LID TYPE

JUNCTION DROP TYPE

JUNCTION LINE

STRUCTURE TYPES

C1 = CAST-IN-SITU 1.0500
C2 = CAST-IN-SITU 1.2000
C3 = CAST-IN-SITU 1.5000
C4 = CAST-IN-SITU 1.8000
C5 = CAST-IN-SITU 2.0000
C6 = CAST-IN-SITU 2.4000

REFER TO LOGAN WATER STANDARD
DRAWING SET DRG LW-SEW-DRG-2052
MH DROP TYPES:

AS PER SEQ STD DRG SEQ-SEW-1303-1
MS DROP TYPES:

MS-V = 30mm DROP THROUGH BULB
MS-Z = >750mm DROP INTO RISER

LID TYPES

B = NON-TRAFFICABLE
D = TRAFFICABLE
D(BD) = TRAFFICABLE WITH BOLT
DOWN

NOTE: PE LINING OF MANHOLES:
PE LINING REQUIREMENTS AS PER
SEWER SEQ CODE CLAUSE 7.6.2.

EMBEDMENT NOTE:

PIPE EMBEDMENT & TRENCHFILL SHALL BE IN
ACCORDANCE WITH SEQ-SEW-1200-2, 1201-1 TO
1201-5. TYPE 3 SUPPORT IS PROPOSED UNTIL
FINAL GEOTECHNICAL INVESTIGATIONS ARE
COMPLETED PRIOR TO CONSTRUCTION.

DATUM R.L.

LAND USE

DIAMETER

GRADE

EMBEDMENT TYPE

DEPTH TO INVERT

JUNCTION INVERT LEVEL

SEWER INVERT LEVEL

DESIGN SURFACE LEVEL

SETOUT

RUNNING CHAINAGE

LINE

LINE 6

LINE 7

1

COMPLIANCE APPROVAL
referred to in the PDA
DEVELOPMENT APPROVAL

Approval no: DEV2012/403/314

Condition no: 20b

Date: 14-Apr-26



REV	DATE	DESIGN	DRAWN	REVISION DETAILS
0	17.03.25	TR	JR	ISSUED FOR CONSTRUCTION
1	31.07.25	TR	JR	ALIGNMENT AMENDED, 14/6 TO 18/6 AMENDED TO DN525 PP SN10

DRAWN	STATUS
JR	ISSUED FOR CONSTRUCTION
DESIGN	APPROVED
TR	DANIEL COLLINS RPEQ 18631
FOR AND ON BEHALF OF COLLIER'S INTERNATIONAL ENGINEERING & DESIGN PTY LTD	



SCALE
1:1000 10 0 10 20 30 40 50 A1
1:2000 HORIZONTAL A3
1:100 2 1 0 2 4 A1
1:200 VERTICAL A3

CLIENT
PEET FLAGSTONE CITY Pty. Ltd.
ASSOCIATED CONSULTANT
VERIS PHONE: (07) 3666 4700

PROJECT NAME
FLAGSTONE CITY TRUNK SEWER CONTEXT AREA 4
FLAGSTONIAN DRIVE FLAGSTONE

DRAWING TITLE
TRUNK SEWER LONGITUDINAL SECTIONS SHEET 4 OF 4
PROJECT No. 23-0202
DRAWING No. 1719
REVISION 1