

8 LOT INDUSTRIAL SUBDIVISION

86-160 CHRISTENSEN ROAD SOUTH, STAPYLTON

WORKING DRAWINGS

17-209-C100-01 COVER SHEET, LOCALITY PLAN, DRAWING INDEX

EARTHWORKS AND EROSION AND SEDIMENT CONTROL

- 17-209-C101-01 EROSION & SEDIMENT CONTROL PLAN
- 17-209-C101-02 EROSION & SEDIMENT CONTROL DETAILS AND NOTES
- 17-209-C102-01 BULK EARTHWORKS PLAN
- 17-209-C102-02 BULK EARTHWORKS SECTIONS
- 17-209-C102-03 RETAINING WALL LONG SECTION AND DETAILS

ROADS AND DRAINAGE

- 17-209-C103-01 ROADWORKS AND DRAINAGE PLAN - SHEET 1
- 17-209-C103-02 ROADWORKS AND DRAINAGE PLAN - SHEET 2
- 17-209-C103-02 ROADWORKS AND DRAINAGE NOTES AND DETAILS
- 17-209-C103-04 WETLANDS LAYOUT PLAN
- 17-209-C104-01 NEW ROAD SECTIONS AND PAVEMENT DETAILS - SHEET 1
- 17-209-C104-02 NEW ROAD SECTIONS AND PAVEMENT DETAILS - SHEET 2
- 17-209-C104-03 NEW ROAD CROSS SECTIONS - SHEET 1
- 17-209-C104-04 NEW ROAD CROSS SECTIONS - SHEET 2
- 17-209-C110-01 STORMWATER CATCHMENT PLAN & DETAILS
- 17-209-C110-02 STORMWATER LONGITUDINAL SECTIONS - SHEET 1
- 17-209-C110-03 STORMWATER LONGITUDINAL SECTIONS - SHEET 2
- 17-209-C110-04 STORMWATER CALCULATION TABLES - SHEET 1
- 17-209-C110-05 STORMWATER CALCULATION TABLES - SHEET 2

SEWER RETICULATION

- 17-209-C120-01 SEWER RETICULATION LAYOUT
- 17-209-C120-02 SEWER LONGITUDINAL SECTION
- 17-209-C120-03 SEWER NOTES AND DETAILS

WATER RETICULATION

- 17-209-C130-01 WATER RETICULATION PLAN
- 17-209-C130-02 WATER RETICULATION NOTES AND DETAILS

STANDARD DRAWINGS

CITY OF GOLD COAST

- 02-003 TYPICAL CROSS SECTIONS COLLECTOR STREETS PLAN 2 OF 2
- 02-005 PUBLIC UTILITY PLANT CORRIDOR ALLOCATION IN PUBLIC ROAD VERGES
- 03-001 SIDE INLET GULLY CAST IN-SITU DETAILS LIP IN LINE
- 03-101 STORMWATER ACCESS CHAMBER 1050 DIA TO 1500 DIA
- 03-201 EXCAVATION & BEDDING OF CONCRETE STORMWATER PIPES

IPWEAQ

- DS-068 DRAINAGE PITS KERB INLET - KERB IN LINE ANTI-PONDING
- RS-065 PATHWAYS CONCRETE PATHWAY CONSTRUCTION DETAILS
- RS-080 KERB AND CHANNEL PROFILES AND DIMENSIONS INCLUDING EDGE RESTRAINTS, MEDIAN & CHANNEL
- RS-090 KERB RAMPS RAMPED PEDESTRIAN CROSSINGS
- RS-092 KERB RAMPS INSTALLATION OF TGSIS ON RAMPED KERB CROSSINGS
- RS-093 KERB RAMPS INSTALLATION OF TGSIS ON RAMPED KERB CROSSINGS APPLICATION EXAMPLES
- RS-140 SUBSOIL DRAINS DETAILS AND LOCATIONS
- RS-142 SUBSOIL DRAINS ACCESS POINTS

IECA

BEST PRACTICE EROSION AND SEDIMENT

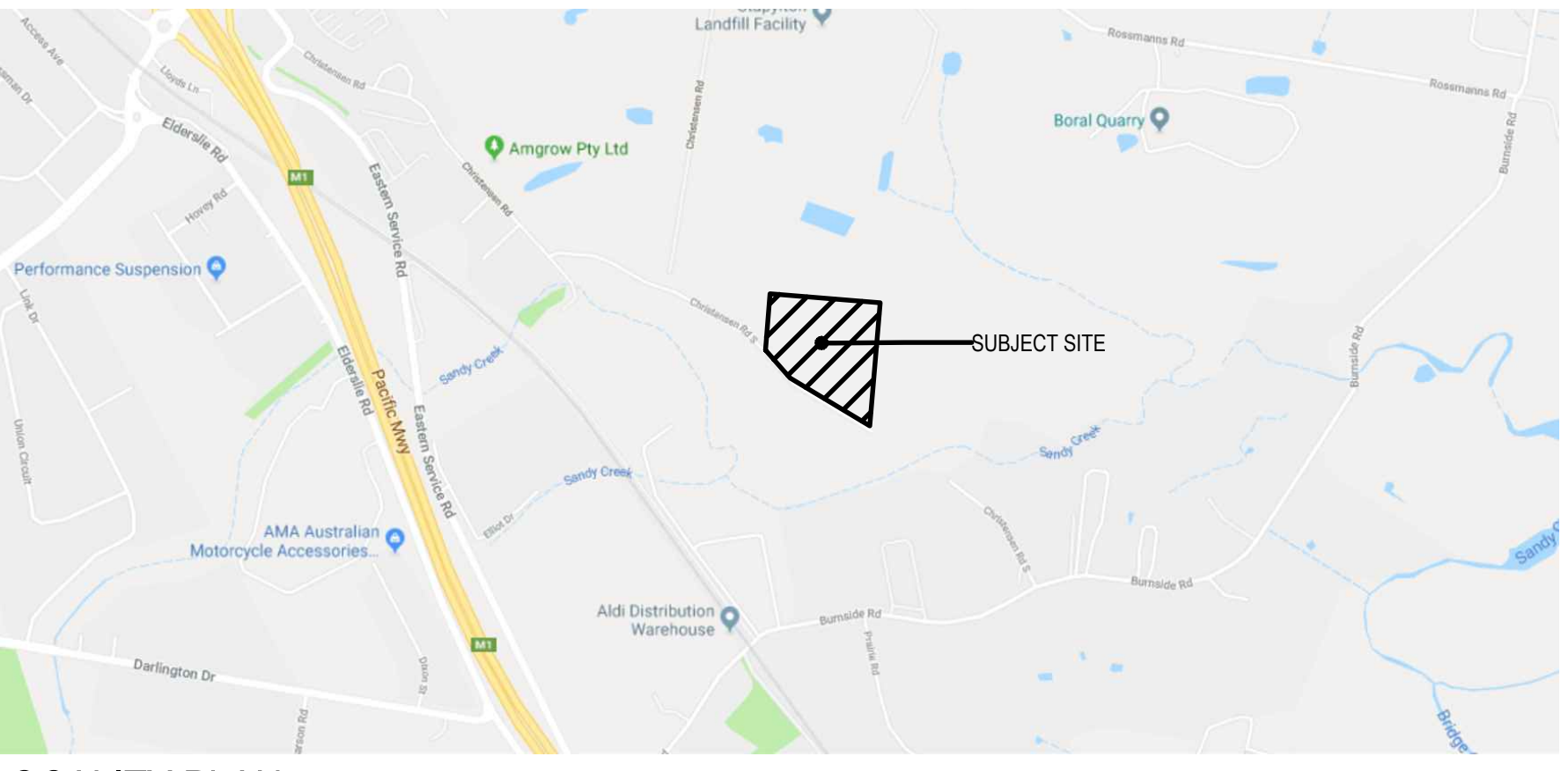
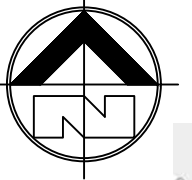
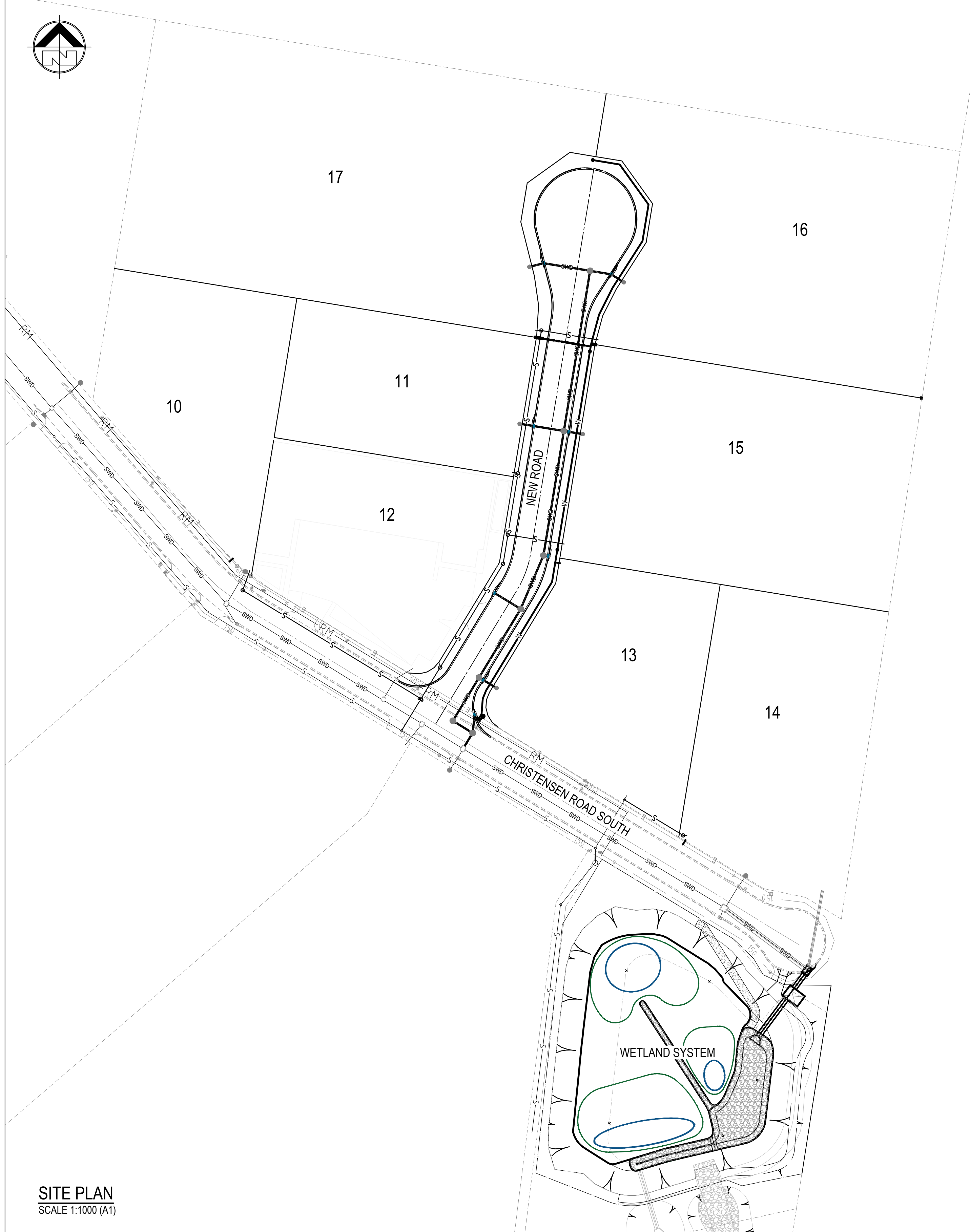
AUSTRALIAN STANDARDS

- AS1289 METHODS OF TESTING SOILS FOR ENGINEERING PURPOSES
- AS2439.1 PERFORATED PLASTICS DRAINAGE AND EFFLUENT PIPE AND FITTINGS
- AS1379 SPECIFICATION AND SUPPLY OF CONCRETE
- AS3600 CONCRETE STRUCTURES

SEQ WATER SUPPLY AND SEWERAGE DESIGN AND CONSTRUCTION CODE

- SEQ-SEW-1104-1 SEWERAGE HOUSE CONNECTION TYPICAL CONSTRUCTION DETAILS
- SEQ-SEW-1201-1 TYPICAL STANDARD EMBEDMENT FLEXIBLE & RIGID PIPES
- SEQ-SEW-1202-1 TYPICAL SPECIAL EMBEDMENT INADEQUATE FOUNDATIONS REQUIRING OVER EXCAVATION & REPLACEMENT
- SEQ-SEW-1300-1 MAINTENANCE HOLES < DN300 SEWER TYPES P1, P2 & P3 TYPICAL PRE-CAST
- SEQ-SEW-1301-1 CAST IN-SITU MAINTENANCE HOLE TYPICAL COPING & ANCHOR BRACKET DETAILS
- SEQ-SEW-1302-1 MAINTENANCE HOLES CAST IN-SITU AND PRECAST TYPICAL PIPE CONNECTION DETAILS
- SEQ-SEW-1303-1 MAINTENANCE HOLES SEWERS < 300 TYPICAL CHANGES IN LEVEL DETAILS

- SEQ-WAT-1105-1 TYPICAL PE WATER MAIN DETAILS
- SEQ-WAT-1106-1 TYPICAL PROPERTY SERVICE CONNECTION MAIN TO METER
- SEQ-WAT-1106-2 TYPICAL PROPERTY SERVICE CONNECTION MAIN TO METER
- SEQ-WAT-1200-2 EMBEDMENT & TRENCH FILL TYPICAL ARRANGEMENT
- SEQ-WAT-1201-1 STANDARD EMBEDMENT TYPICAL FLEXIBLE & RIGID PIPES
- SEQ-WAT-1202-1 TYPICAL SPECIAL EMBEDMENT INADEQUATE FOUNDATIONS REQUIRING OVER EXCAVATION & REPLACEMENT
- SEQ-WAT-1205-1 TYPICAL THRUST BLOCK DETAILS MASS CONCRETE
- SEQ-WAT-1206-1 TYPICAL THRUST AND ANCHOR BLOCKS FOR VALVES
- SEQ-WAT-1300-1 TYPICAL VALVE AND HYDRANT ROAD AND PAVEMENT MARKERS
- SEQ-WAT-1300-2 TYPICAL VALVE AND HYDRANT IDENTIFICATION MARKER POSTS
- SEQ-WAT-1302-1 TYPICAL HYDRANT INSTALLATION
- SEQ-WAT-1305-1 TYPICAL SURFACE FITTING INSTALLATION VALVE AND HYDRANT SURFACE BOXES TRAFFICABLE AND NON-TRAFFICABLE
- SEQ-WAT-1306-1 TYPICAL SURFACE FITTING INSTALLATION VALVE AND HYDRANT SURFACE BOXES SUPPORT AND SURROUND DETAILS



LOCALITY PLAN
NTS

WARNING
NO GUARANTEE IS GIVEN THAT SERVICES SHOWN ARE COMPLETE AND CORRECT. CONTRACTOR SHALL VERIFY EXACT POSITION OF SERVICES ON SITE BY HAND DIGGING OR OTHER NON DESTRUCTIVE MEANS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN AND PROTECT THE SAME FOR THE DURATION OF THE CONTRACT.

GCCC REF: xxxx



SITE PLAN
SCALE 1:1000 (A1)

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Date: 05.02.2019

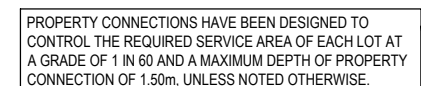
Project
**PROPOSED SUBDIVISION AT
86-160 CHRISTENSEN ROAD
SOUTH, STAPYLTON**
for
**BURNSIDE DEVELOPMENTS P/L &
YELLOWSTONE INVESTMENTS P/L**

Title
**COVER SHEET, LOCALITY PLAN
DRAWING INDEX**

Status
FOR COUNCIL APPROVAL

Drawn	Date	Chkd	Date
K.J.L.	07.12.18	T.J.S.	07.12.18
Design	Date	Apprd	Date
T.J.S.	07.12.18		
Scale	A1	Certif	Date
AS SHOWN			
Project No.	Dwg. No.	Rev.	
17-209	C100-01	B	

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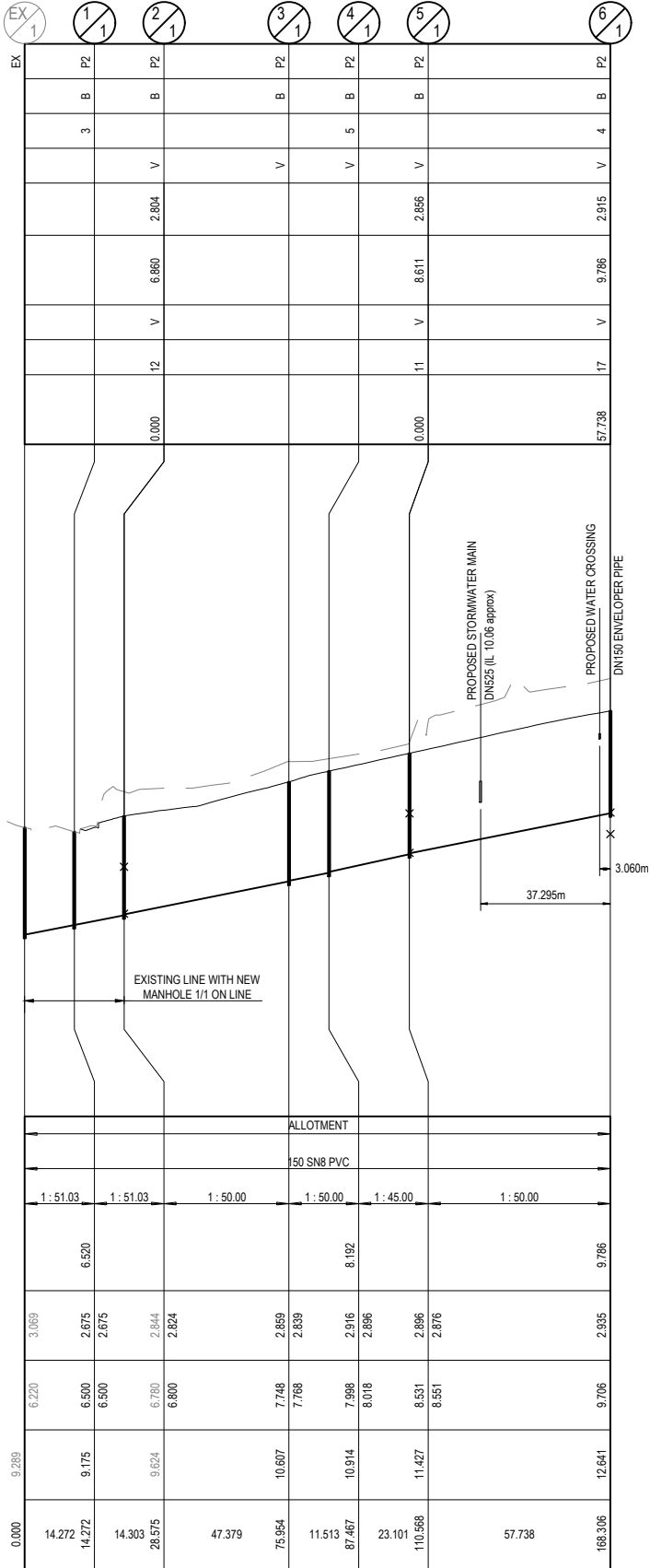
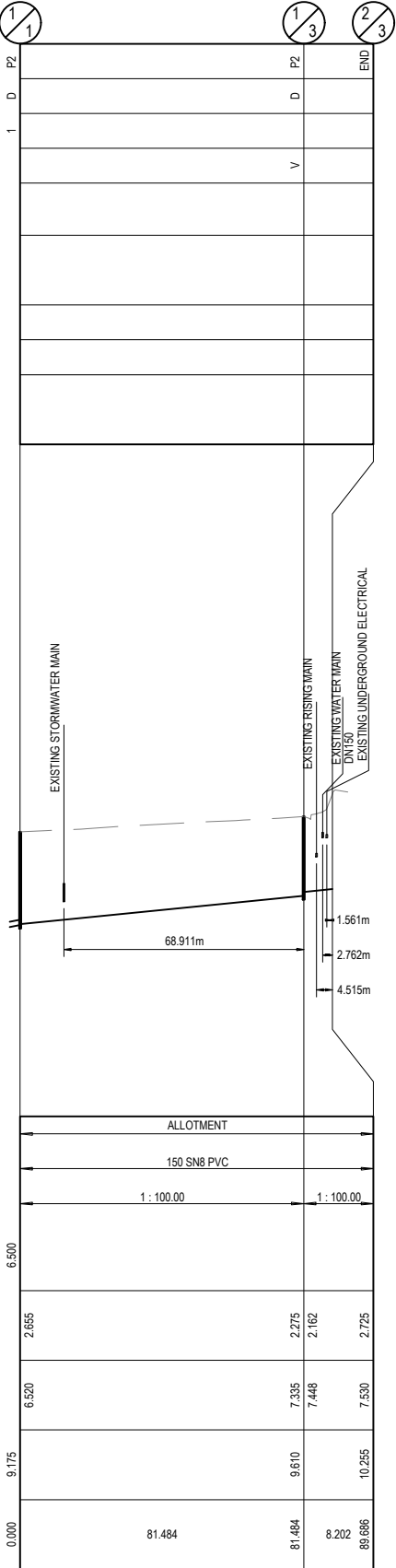
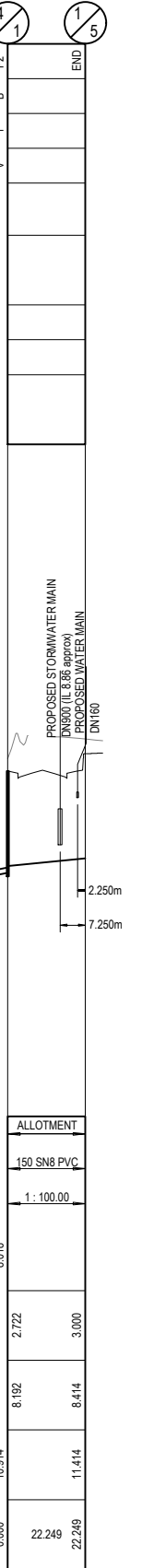
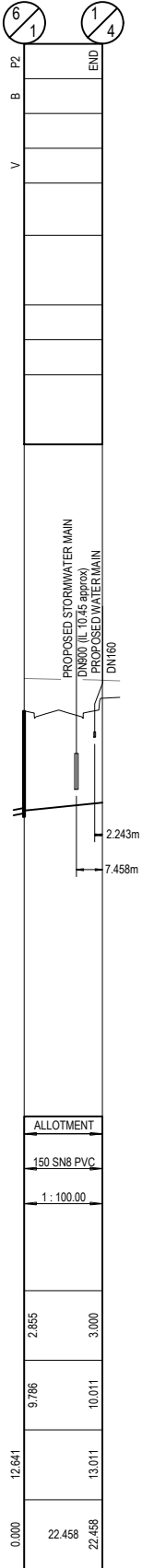
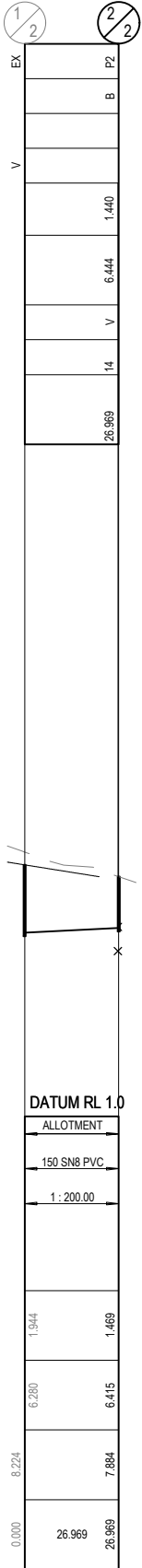


Project No. 17-209	Dwg. No. C120-01	Rev. B
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MANHOLE/END NAME
MANHOLE TYPE
LID TYPE
JUNCTION LINE
DROP TYPE
DEPTH TO HC
HOUSE CONNECTION INVERT LEVEL
HC TYPE
HC LOT No
CH. FROM D/S MH

STREET ETC
DIAMETER
GRADE
JUNCTION INVERT LEVEL
DEPTH TO INVERT
INVERT LEVEL OF SEWER
DESIGN SURFACE LEVEL
RUNNING CHAINAGE

LINE



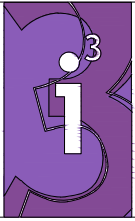
LEGEND	
STRUCTURE TYPE	
P2	1000 DIA PRECAST CONCRETE MAINTENANCE HOLE LOCATED IN ROADS, FOOTPATHS OR LOTS. DEPTH<6.00m. IN ACCORDANCE WITH SEQ-SEW-1300-1
STRUCTURE COVER TYPE	
B	NON-TRAFFICABLE (INDUSTRIAL AREA FOOTPATH) CONCRETE FILLED
D	CAST IRON TRAFFICABLE
MAINTENANCE HOLE DROP TYPE	
V	FALL THROUGH MH (DN 150 = MAX 250mm)

PROPERTY CONNECTION TABLE

TYPE V	
STANDARD & EXTENDED ≤ 0.250m	
VS	VE
TYPE W	
SLOPED CONNECTION > 0.250m	
WS	WE
TYPE Y	
VERTICAL RISE > 0.600m	
YS	YE

B	FOR COUNCIL APPROVAL	30.01.2019	K.J.L.
A	PRELIMINARY	07.12.2018	K.J.L.
REV	DESCRIPTION	DATE	BY

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Date: 05 / 02 / 2019

Project
PROPOSED SUBDIVISION AT
86-160 CHRISTENSEN ROAD
SOUTH, STAPYLTON
for
BURNSIDE DEVELOPMENTS P/L &
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Title
SEWER LONGITUDINAL SECTION

GCCC REF: xxxx



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17-209	C120-02	B	

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GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH FOLLOWING CURRENT SPECIFICATIONS AND STANDARDS (IN ORDER OF PRIORITY):
- CITY OF GOLD COAST PLANNING SCHEME

- SOUTH EAST QUEENSLAND SEWERAGE CODE (SEQ SEWER CODE)

- SEWERAGE CODE OF AUSTRALIA WSA02-2002 V2.3.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. THE CONSTRUCTION OF THE SEWERAGE WORK SHOWN ON THIS DRAWING SHALL BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. SEWERAGE WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT INTO THE SEQ SERVICE PROVIDER SEWERAGE SYSTEM.
4. ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY THE CONTRACTOR AT THE DEVELOPER'S COST, WITH A VALID NETWORK ACCESS PERMIT.
5. ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
6. PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
7. PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300 mm AND A MAXIMUM OF 750 mm.
8. WHERE PIPES ARE LAID IN FILL, THE FILLING SHALL BE CARRIED OUT IN LAYERS NOT EXCEEDING 300 mm (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 THE SEQ SERVICE PROVIDER UNLESS CERTIFICATES ARE PRODUCED CERTIFYING THAT THE REQUIRED COMPACTION HAS BEEN ACHIEVED.
9. WHERE GRAVITY SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER,BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
10. WHERE RISING SEWERS HAVE A GRADE BETWEEN 5-15% TRENCH STOPS SHALL BE INSTALLED AT A SPACING (S) OF S=100/GRADE% IN ACCORDANCE WITH THE SEQ WATER 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.
13. BENCH MARK AND LEVELS TO AHD.
14. CONCRETE FOR MANHOLE CONSTRUCTION SHALL BE SPECIAL CLASS TO WSA PS-358 WITH THE REQUIREMENT FOR CALCAREOUS AGGREGATE.
15. DETECTABLE MARKER TAPE SHALL BE INSTALLED ON ALL SEWER MAINS.

SAFETY

1. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

REHABILITATION

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

CREEK CROSSINGS

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.

SOIL

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. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

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 TUNNELLED 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.

TRENCH NOTES

1. BEARING PRESSURE AT THE BOTTOM OF EXCAVATION IS TO BE TESTED AS PER THE SEQ WATER SERVICE PROVIDERS CODE STANDARD DRAWING SEQ-SEW-1200-1.
2. WHERE THE BOTTOM OF AN EXCAVATION IS FOUND TO BE FIRM OR STRONGER TYPE 3 TRENCH (REFER SEQ-SEW-1201-1) IS TO BE USED.
3. WHERE THE BOTTOM OF AN EXCAVATION IS FOUND TO BE SOFT OR WEAKER, THE TYPE 7 (REFER SEQ-SEW-1202-1) IS TO BE USED.

GOLD COAST WATER AND CONTRACTOR LIVE SEWER WORKS

NO.	DESCRIPTION	DIA SEWER	MH NO	MHMS TYPE	COVER TYPE	LOT NO	F.S.L	E.S.L	IL	DEPTH TO INVERT
1 (A)	CONTRACTOR TO LOCATE EXISTING LOT 12 CONNECTION AND STUB, AND CONFIRM AS CONSTRUCTED LEVELS.	150	2/1	-	-	-	-	-	-	-
1 (B)	CONTRACTOR TO CONSTRUCT NEW MANHOLE 2/1 OVER EXISTING SEWER, AND RECONNECT LOT 12 PROPERTY CONNECTION. CONTRACTOR TO CONSTRUCT 0.5m STUB FOR LINE 1 (TEMPORARILY END CAPPED). CONTRACTOR TO MAKE MANHOLE 2/1 LIVE.	-	2/1	P2	CLASS B / CI	-	9.624	-	-	-
1 (C)	CONTRACTOR TO LAY NEW LINE 1 AND PROPERTY CONNECTIONS. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY COUNCIL.	150	-	P2	CLASS B / CI	-	-	-	-	-
1 (D)	CONTRACTOR TO REMOVE END CAP FROM 0.5m STUB, AND COMPLETE THE CONNECTION TO THE LIVE MAIN AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	150	2/1	P2	CLASS B / CI	-	-	-	-	-
2 (A)	CONTRACTOR TO BREAK INTO EXISTING MAINTENANCE HOLE 1/2 AND CONSTRUCT THE STUB FOR LINE 2 (TEMPORARILY END CAPPED).	150	1/2	EX	-	13	8.224	-	6.280	1.944
2 (B)	CONTRACTOR TO LAY NEW LINE 2 AND PROPERTY CONNECTIONS. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY COUNCIL.	150	-	P2	CLASS B / CI	13 14	-	-	-	-
2 (C)	CONTRACTOR TO REMOVE TEMPORARY END CAP AND MODIFY MANHOLE COVER TO SUIT NEW SURFACE LEVELS (IF REQUIRED) AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	150	1/2	EX	-	13	-	-	-	-
3 (A)	CONTRACTOR TO BREAK INTO EXISTING SEWER LINE BETWEEN MANHOLES 2/1 AND EX/1 AND CONSTRUCT MANHOLE 1/1. CONTRACTOR TO CONSTRUCT 0.5m STUB FOR LINE 3 (TEMPORARILY END CAPPED). CONTRACTOR TO MAKE MANHOLE 1/1 LIVE.	150	1/1	P2	CLASS D / CI	-	-	-	-	-
3 (B)	CONTRACTOR TO LAY NEW LINE 3 AND PROPERTY CONNECTION TO LOT 10. AFTER CLEANSING, TESTING AND INSPECTING, NOTIFY COUNCIL.	150	-	P2	CLASS D / CI	-	-	-	-	-
3 (C)	CONTRACTOR TO REMOVE END CAP FROM 0.5m STUB, AND COMPLETE THE CONNECTION TO THE LIVE MAIN AFTER SUCCESSFUL "ON MAINTENANCE" INSPECTION.	150	1/1	P2	-	-	-	-	-	-

1. THE DESIGN AND CONSTRUCTION OF THE WORKS SHALL COMPLY WITH ALL QUEENSLAND LEGISLATION.

REHABILITATION

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

CREEK CROSSINGS

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.

SOIL

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. ACID SULPHATE SOILS EXIST IN THE WORKS AREA. THE OUTPUTS FROM THE RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL REQUIRES THAT ACID SULPHATE SOILS BE MANAGED AS FOLLOWS: (DELETE IF NO ACID SULPHATE SOILS)

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 TUNNELLED 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.

TRENCH NOTES

1. BEARING PRESSURE AT THE BOTTOM OF EXCAVATION IS TO BE TESTED AS PER THE SEQ WATER SERVICE PROVIDERS CODE STANDARD DRAWING SEQ-SEW-1200-1.
2. WHERE THE BOTTOM OF AN EXCAVATION IS FOUND TO BE FIRM OR STRONGER TYPE 3 TRENCH (REFER SEQ-SEW-1201-1) IS TO BE USED.
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	B	FOR COUNCIL APPROVAL	30.01.2019	K.J.L.
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	REV	DESCRIPTION	DATE	BY

Engineers Certification:

Travis Smith MIE Aust. CPEng.
RPEQ 16400

Signature:*T.J.S.*.....

Date: *05 / 02 / 2019*

Project
PROPOSED SUBDIVISION AT
86-160 CHRISTENSEN ROAD
SOUTH, STAPYLTON

for
BURNSIDE DEVELOPMENTS P/L &
YELLOWSTONE INVESTMENTS P/L

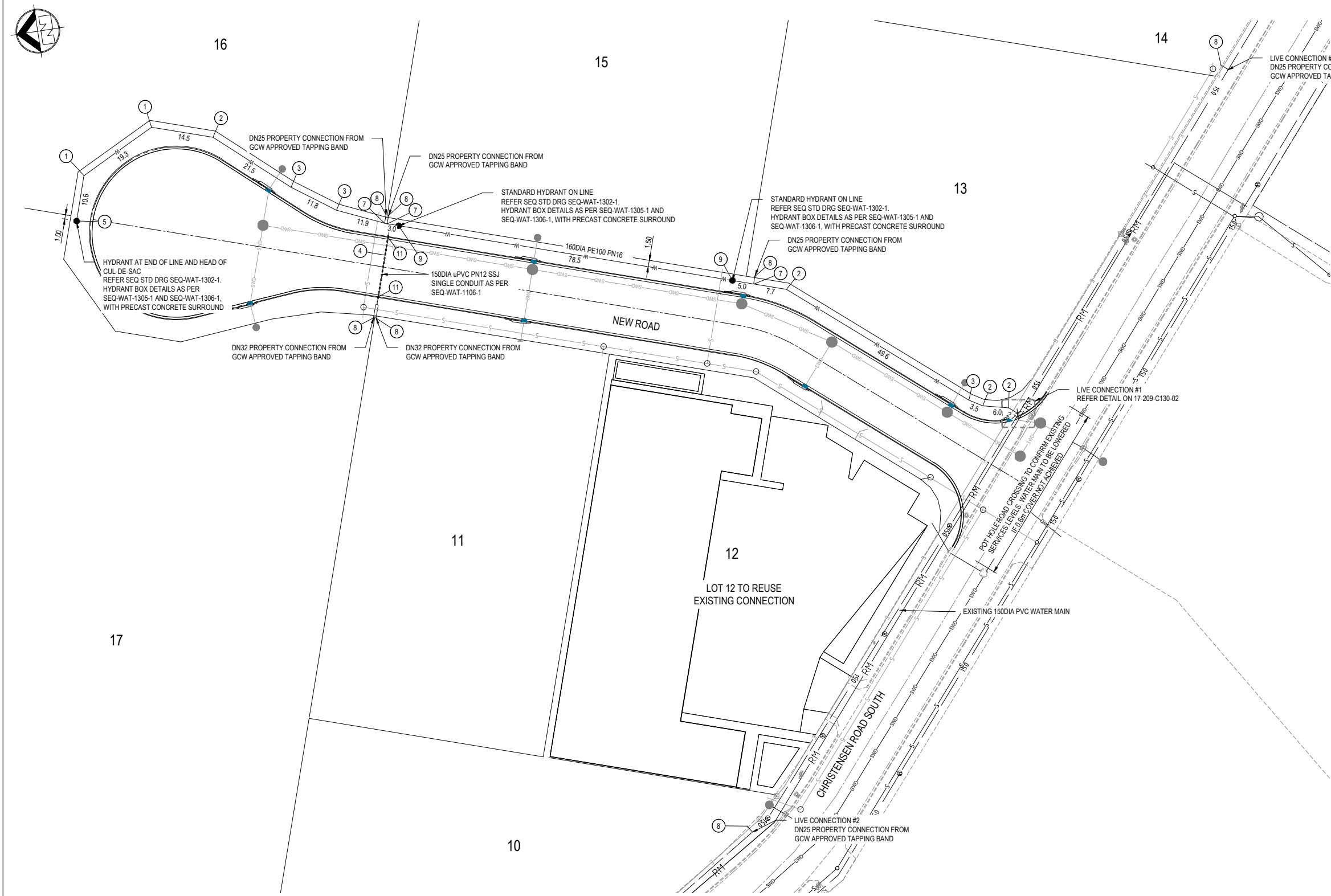
Title
SEWER NOTES AND DETAILS

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LEGEND

- PROPOSED LOT BOUNDARY
- EXISTING PROPERTY BOUNDARY
- EXISTING STORMWATER MAIN
- PROPOSED STORMWATER MAIN
- PROPOSED STORMWATER MANHOLE
- EXISTING ELECTRICAL
- PROPOSED LIP IN LINE GULLY PIT
- EXISTING WATER MAIN
- PROPOSED WATER MAIN DN160 PE100 CLASS 16
- PROPOSED WATER SERVICE AND METER
- PROPOSED WATER SERVICE CONDUIT 150DIA uPVC PN12 SERIES 1 CONDUIT
- PROPOSED HYDRANT
- PROPOSED VALVE
- WATER FITTING LABEL
- EXISTING HYDRANT
- EXISTING SEWER MAIN
- PROPOSED SEWER MAIN

WARNING

NO GUARANTEE IS GIVEN THAT SERVICES SHOWN ARE COMPLETE AND CORRECT. CONTRACTOR SHALL VERIFY EXACT POSITION OF SERVICES ON SITE BY HAND DIGGING OR OTHER NON DESTRUCTIVE MEANS PRIOR TO CONSTRUCTION AND SHALL MAINTAIN AND PROTECT THE SAME FOR THE DURATION OF THE CONTRACT.

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

ALL WATER AND SEWER CONSTRUCTION WORK UNDERTAKEN BY THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE WORKPLACE HEALTH AND SAFETY LEGISLATION

FITTING NO.	FITTING DESCRIPTION	QTY
1	160DIA PE 45° BEND	2
2	160DIA PE 22.5° BEND	4
3	160DIA PE 11.25° BEND	3
4	150DIA uPVC PN12 CONDUIT	1
5	160DIA HYDRANT AT END OF LINE AND HEAD OF CUL-DE-SAC	1
6	160DIA x 160DIA PVC TEE	1
7	TAPPING BAND	3
8	20mm WATER METER (DRINKING WATER ONLY SYSTEM)	7
9	160DIA STANDARD HYDRANT ON-LINE	2
10	160DIA SLUICE VALVE	1
11	BRASS ROAD CROSSING PLATE	2
12	150DIA GIBAULT JOINT	2

WATER RETICULATION LAYOUT
SCALE 1:500 (A1)

GCCC REF: xxxx



FOR COUNCIL APPROVAL

Drawn	Date	Chkd	Date
K.J.L.	07.12.18	T.J.S.	07.12.18
Design	Date	Apprd	Date
T.J.S.	07.12.18		
Scale	A1	Certif	Date
AS SHOWN			
Project No.	Dwg. No.	Rev.	
17-209	C130-01	B	

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Signature: *T. Smith*

Date: 05 / 02 / 2019

Project
PROPOSED SUBDIVISION AT
86-160 CHRISTENSEN ROAD
SOUTH, STAPYLTON
for
BURNSIDE DEVELOPMENTS P/L &
YELLOWSTONE INVESTMENTS P/L

Title
WATER RETICULATION PLAN

B	FOR COUNCIL APPROVAL	30.01.2019	K.J.L.
A	PRELIMINARY	07.12.2018	K.J.L.
REV	DESCRIPTION	DATE	BY

- A. TREES LOCATED ALONG THE FOOTPATH SHALL BE TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- B. WHEN WORKING WITHIN 4m OF TREES, RUBBER OR HARDWOOD GIROLES SHALL BE CONSTRUCTED WITH 1.8m BATTENS CLOSELY SPACED AND ARRANGED VERTICALLY FROM GROUND LEVEL. GIROLES SHALL BE SECURED TO TREES PRIOR TO CONSTRUCTION AND REMAIN UNTIL COMPLETION.
- C. 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.
- D. ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

- A. TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- B. CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM. THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.

- A. SILTATION CONTROL MEASURES SHALL BE PLACED DOWNSTREAM OF ANY EXCAVATION WORK.
- B. APPROPRIATE SEDIMENT CONTROLS SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE CREEK.
- C. NO SOIL SHALL BE STOCKPILED WITHIN 5m OF THE CREEK.

A. PREDISTURBANCE SOIL PROFILES AND COMPACTION LEVELS SHALL BE REINSTATED.
B. PREDISTURBANCE VEGETATION PATTERNS SHALL BE RESTORED.

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND WATER SUPPLY CODE SPECIFICATIONS AND STANDARDS.
2. UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
3. ADOPT LIP OF KERB OR SHOULDER OF ROAD AS PERMANENT LEVEL.
4. COVER ON MAINS FROM PERMANENT LEVEL TO BE AS SHOWN IN SEQ-WAT-1200-2.
5. CONDUITS TO BE INSTALLED IN ACCORDANCE WITH THE STANDARD DRAWINGS.
6. A WATER METER SUPPLIED AT THE DEVELOPER'S COST, IS TO BE INSTALLED AT THE SERVICE POINT OF EACH LOT IN ACCORDANCE WITH THE STANDARD DRAWING FOR THE SEQ-SP.
7. ALL MATERIALS USED IN THE WORKS SHALL COMPLY WITH THE SEQ-SP'S ACCEPTED PRODUCTS AND MATERIAL LIST OR BE APPROPRIATELY SHOWN, LISTED AND DEFINED IN THE ENGINEERING SUBMISSION SO THAT THE ALTERNATIVE PRODUCT OR MATERIAL CAN BE ASSESSED AND IF APPROPRIATE, APPROVED BY THE SEQ-SP.
8. ALL CONCRETE FOOTPATHS TO BE CLEAR OF WATER MAINS.
9. TEST/CHLORINATION POINTS TO BE INSTALLED IN ACCORDANCE WITH STANDARD DRAWING NO SEQ-WAT-1410-1.
10. THE CONSTRUCTION OF THE WATER RETICULATION WORK SHOWN ON THIS DRAWING MUST BE SUPERVISED BY AN ENGINEER WHO HAS RPEQ REGISTRATION. WORKS NOT COMPLYING WITH THIS REQUIREMENT WILL NOT BE PERMITTED TO CONNECT TO THE RETICULATION SYSTEM.

1. BEARING PRESSURE AT THE BOTTOM OF EXCAVATION IS TO BE TESTED AS PER THE SEQ WATER SERVICE PROVIDERS CODE, AND STANDARD DRAWING SEQ-WAT-1200-2.
2. WATER MAINS SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH SEQCODE STD DRG SEQ-WAT-1201-1 TYPE 'C' SUPPORT, IF THE EXCAVATION IS FOUND TO BE FIRM OR STRONGER.
3. WATER MAINS SHALL BE BEDDED AND BACKFILLED IN ACCORDANCE WITH SEQCODE STD DRG SEQ-WAT-1201-1 TYPE 'G' SUPPORT, IF THE EXCAVATION IS FOUND TO BE SOFT OR WEAKER.

1. THRUST BLOCKS SHALL BE PROVIDED TO ALL BENDS (HORIZONTAL AND VERTICAL); TEES; REDUCERS; DEAD ENDS; VALVES; ETC. REFER SEQCODE STD DWG SEQ-WAT-1205-1 AND SEQ-WAT-1206-1.
2. BLUE RPPMS SHALL BE PLACED ALONG THE ROADWAY CENTRELIN, OPPOSITE ALL HYDRANTS. REFER SEQCODE STD DRG NO SEQ-WAT-1300-1.
3. WATER SERVICE KERB & CHANNEL CONDUIT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH SEQCODE STD DRG NO SEQ-WAT-1300-1.

1. ALL PROPERTY CONNECTIONS SHALL BE FOR A NOMINAL DN25 OR DN32 PE PROPERTY SERVICE U.N.O.
2. ALL WATER METERS TO BE 20mm FOR DRINKING WATER ONLY, AND IN ACCORDANCE WITH GCW STD DRGS 11-133 AND 11-134.
3. WATER SERVICES SHALL BE LOCATED 1000mm CLEAR OF ENERGEX SERVICES.
4. 20mm METER BOXES TO BE SUPPLIED BY RETAIN REPRESENTATIVES LISTED IN THE SEQ CIVIL IPAM PRODUCT LIST.

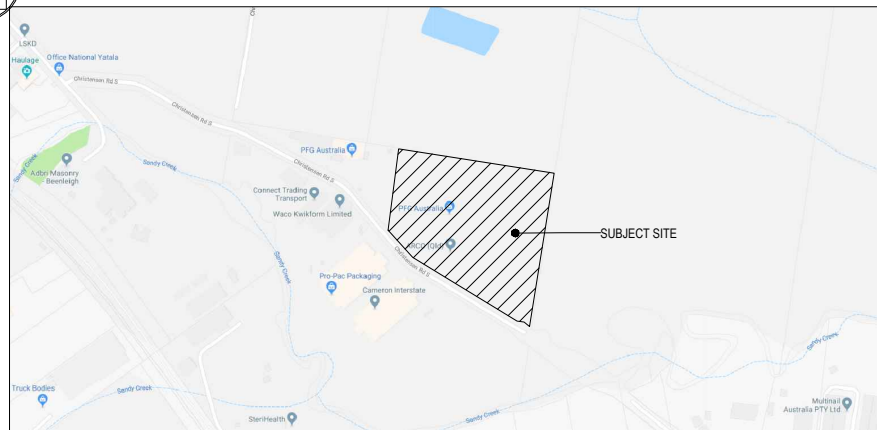
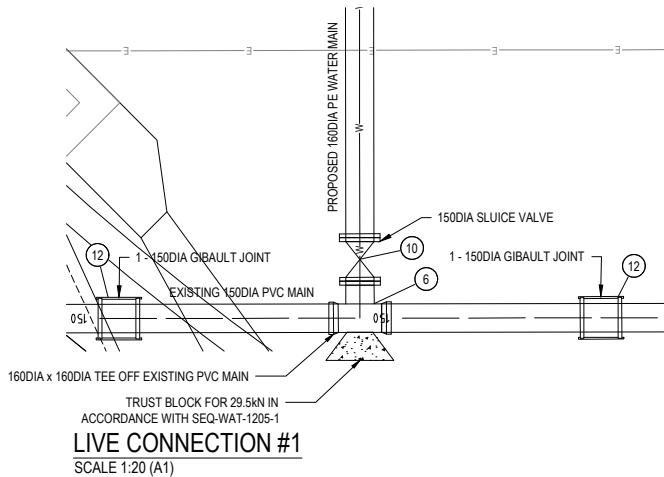
NO	DESCRIPTION	DIA OF MAIN	MATERIAL	LOT NO.
1A	CONTRACTOR TO LAY NEW WATER MAIN AND PROPERTY CONNECTIONS IN THE NEW SUBDIVISION. CONTRACTOR TO CHLORINATE AND PRESSURE TEST THE NEW MAIN, AND ARRANGE FOR BIOLOGICAL TESTING OF THE WATER IN THE NEW MAIN.	160	PE	-
1B	AFTER A SUCCESSFUL ON-MAINTENANCE INSPECTION, UNDER SUPERVISION OF GOLD COAST WATER, THE CONTRACTOR SHALL ISOLATE THE SECTION OF THE EXISTING MAIN IN CHRISTENSEN ROAD SOUTH, PROVIDE THE APPROPRIATE LENGTH OF PIPE, CONNECT THE NEW WATER MAIN TO THE EXISTING AND PRESSURISE THE LINE.	160	PE	-

NO	DESCRIPTION	DIA OF MAIN	MATERIAL	LOT NO.
2	CONTRACTOR SHALL INSTALL NEW PROPERTY SERVICE CONNECTIONS, UNDER THE SUPERVISION OF GOLD COAST WATER, ON EXISTING WATER MAIN TO LOTS ALONG CHRISTENSEN ROAD SOUTH.	25 32	PE	10 14

MINIMUM COVER TO WATER		
TYPE	LOCATION	COVER (m)
SERVICE	VERGE	0.3
ROAD CONDUIT	ROAD	0.6
MAIN	CARRIAGE WAY OF SEALED LOCAL ROADS	0.6 *
MAIN	NON-TRAFFICABLE AREAS, DRIVEWAYS, VERGES/FOOTWAYS	0.6 *

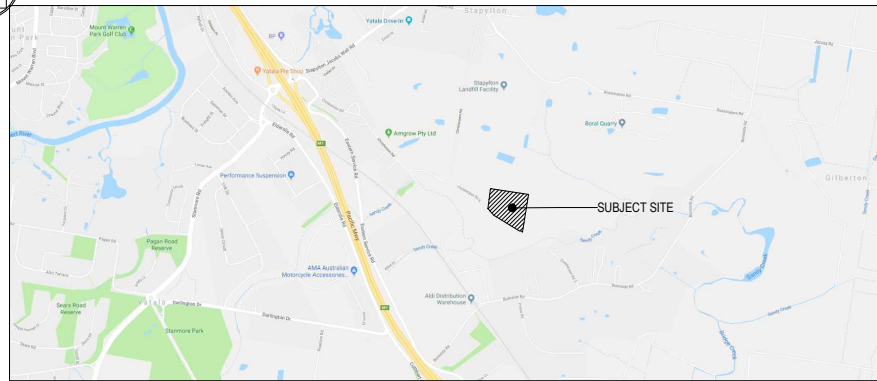
* COVER IS MEASURED FROM THE LIP OF KERB

* COVER IS MEASURED FROM THE LIP OF KERF



LOCALITY PLAN

NTS

REGIONAL PLANNING
NTS

B	FOR COUNCIL APPROVAL	30.01.2019	K.J.L.
A	PRELIMINARY	07.12.2018	K.J.L.
REV	DESCRIPTION	DATE	BY



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p 07 3870 8888

Date: 05 / 02 / 2019

Title

WATER RETICULATION NOTES
AND DETAILS

GCCC REF: xxxx



Status **FOR COUNCIL APPROVAL**

Drawn K.J.L.	Date 07.12.18	Chkd T.J.S.	Date 07.12.18
Design T.J.S.	Date 07.12.18	Apprd	Date
Scale AS SHOWN	A1	Certif	Date
Project No. 17-209	Dwg. No. C130-02	Rev. B	

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