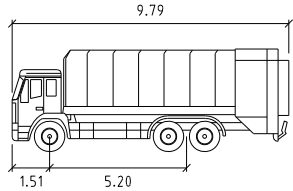
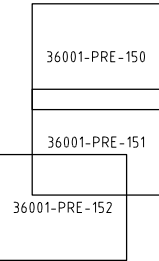


LEGEND

- EXISTING KERB (INVERT)
- EXISTING KERB (LIP & BACK)
- EXISTING FOOTPATH
- EXISTING EDGE OF BITUMEN
- EXISTING PROPERTY LINE
- FUTURE KERB
- FUTURE FOOTPATH
- FUTURE PROPERTY LINE
- CONTROL LINE / CENTER OF ROAD
- PROPOSED KERB (INVERT)
- PROPOSED KERB (LIP & BACK)
- PROPOSED EDGE OF BITUMEN
- PROPOSED FOOTPATH
- PROPOSED PROPERTY LINE
- SITE BOUNDARY
- STAGE BOUNDARY

SHEET LAYOUT



gccc garbage

meters

Width : 2.49
Track : 2.49
Lock to Lock Time : 3.0
Steering Angle : 39.0

PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 2.5 5 7.5 10 12.5m
Scale 1:250 - A1 (1:500 - A3)

REV	DATE	DESCRIPTION	INT
A	12-04-22	COUNCIL ISSUE	EP

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DRAWING TITLE

TURNING PATHS
PLAN
SHEET 01



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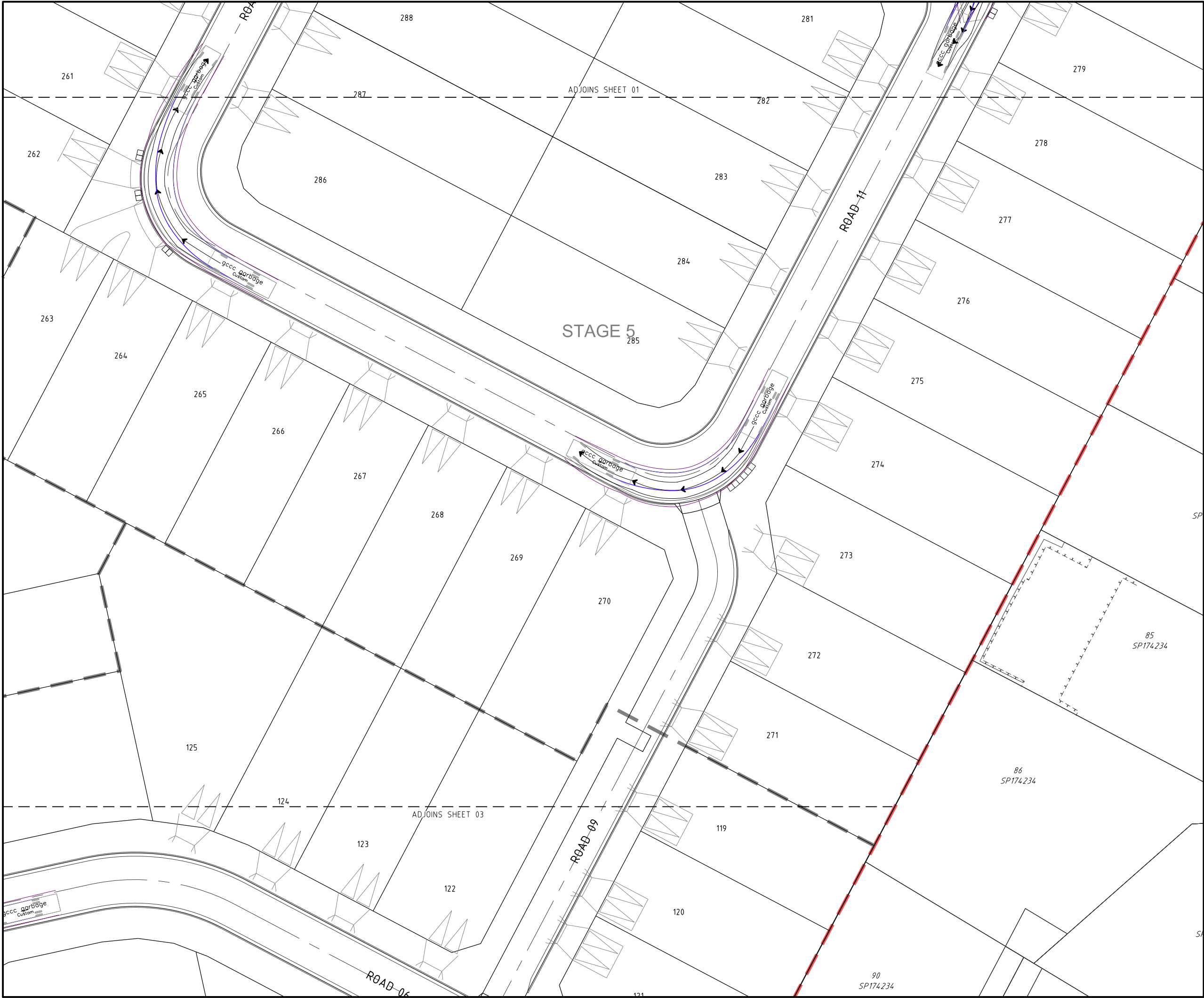
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DESIGNED RB	DRAWN EP
APPROVED <i>a.k.m.</i>	PEQ 4706 DATE 12-04-22

DRAWING NUMBER
41901-PRE-150

REV
A



PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 2.5 5 7.5 10 12.5m
Scale 1:250 - A1 (1:500 - A3)

A	12-04-22	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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DRAWING TITLE

TURNING PATHS
PLAN
SHEET 02



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DESIGNED RB	DRAWN EP
APPROVED <i>A.K.M.</i>	REQ 4706 DATE 12-04-22

DRAWING NUMBER	REV
41901-PRE-151	A



PROJECT NAME

COURTNEY DR
UPPER COOMERA

PRELIMINARY
ENGINEERING

RP DESCRIPTION

LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT

0 2.5 5 7.5 10 12.5m
Scale 1:250 - A1 (1:500 - A3)

A	12-04-22	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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DRAWING TITLE

TURNING PATHS
PLAN
SHEET 03

Urban & Regional Planning
Civil Engineering
Project Coordination

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DESIGNED RB	DRAWN EP
APPROVED	RP EQ 4706 DATE 12-04-22

DRAWING NUMBER

41901-PRE-152

REV

A

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SEQ CODE SEWER NOTES

SEQ CODE NOTES COPIED DIRECTLY FROM DRAWING SEQ-SEW-1101-3.

VEGETATION PROTECTION

- TREES LOCATED ALONG THE FOOTPATH SHALL BE, TRANSPLANTED PRIOR TO CONSTRUCTION, OR REPLACED IF DESTROYED.
- WHEN WORKING WITHIN 4m 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.
- 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.
- ANY TREE LOPPING REQUIRED SHOULD BE UNDERTAKEN BY AN APPROVED ARBORIST.

SOIL

- TOPSOIL AND SUBSOIL SHALL BE STOCKPILED SEPARATELY.
- CARE SHALL BE TAKEN TO PREVENT SEDIMENT FROM ENTERING THE STORMWATER SYSTEM, THIS MAY INVOLVE PLACING APPROPRIATE SEDIMENT CONTROLS AROUND STOCKPILES.
- IF ACID SULPHATE SOILS EXIST IN THE WORKS AREA, THE CONTRACTOR MUST PREPARE A RISK ASSESSMENT BASED ON THE QUEENSLAND ACID SULPHATE SOIL TECHNICAL MANUAL AND MANAGE THE ACID SULPHATE SOILS AS PER THE MANUAL.

CREEK CROSSINGS

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

REHABILITATION

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

SAFETY

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

GENERAL

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH EAST QUEENSLAND SEWERAGE CODE SPECIFICATIONS AND STANDARDS.
- UNLESS SPECIFIED OTHERWISE ALL MATERIALS AND WORK SHALL COMPLY WITH THE RELEVANT AUSTRALIAN STANDARDS.
- 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.
- ALL WORK ASSOCIATED WITH LIVE SEWERS OR MAINTENANCE HOLES SHALL BE CARRIED OUT BY DEVELOPER'S APPROVED CONTRACTOR UNDER THE SUPERVISION OF SEQ'S AGENT AT THE DEVELOPER'S COST.
- ALL PIPES AND MATERIALS SHALL COMPLY WITH THE REQUIREMENTS OF THE "ACCEPTED PRODUCTS AND MATERIALS" LIST.
- EACH ALLOTMENT SHALL BE SERVED BY A DN100 PVC PROPERTY CONNECTION. FOR ALLOTMENTS OTHER THAN SINGLE RESIDENTIAL, A DN160 PE (OR DN150 PVC) PROPERTY CONNECTION SHALL BE PROVIDED.
- PROPERTY CONNECTIONS SHALL BE LOCATED WITHIN THE PROPERTY AS SHOWN IN THE DRAWINGS.
- PROPERTY CONNECTION BRANCHES SHALL EXTEND INTO THE PROPERTY A MINIMUM OF 300 mm AND A MAXIMUM OF 750 mm. UNITYWATER REQUIRES MINIMUM EXTENSION OF 500 mm INTO PROPERTY.
- 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.
- WHERE SEWERS HAVE A GRADE OF 1 IN 20 OR STEEPER, BULKHEADS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE SEQ SEWER CODE.
- THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF EXISTING SERVICES WITH RELEVANT AUTHORITIES BEFORE COMMENCING WORKS.
- SEWERS SHALL BE DISUSED /ABANDONED IN ACCORDANCE WITH PROCEDURES SET OUT IN THE SEQ SEWER CODE.
- BENCH MARK AND LEVELS TO AHD.
- THE EXISTING DWELLING ON LOT 3, REFER SEQ-SEW-1100, SERVED BY A SEPTIC SYSTEM, SHALL BE CONNECTED TO THE NEW SEWER BY A LICENCED PLUMBER IN ACCORDANCE WITH THE RELEVANT STATUTORY AND COUNCIL REQUIREMENTS. THE SEPTIC SYSTEM, INCLUDING TRENCHES, SHALL BE REMOVED AT THE DEVELOPER'S COST. ALL FIXTURES SHALL BE UPGRADED IF REQUIRED BY PLUMBING CODE.
- EXISTING ALLOTMENTS REQUIRING A PROPERTY CONNECTION FROM EXISTING SEWERS SHALL BE PROVIDED BY THE SEQ SERVICE PROVIDER AT THE DEVELOPERS COST.

PROJECT SPECIFIC SEWER NOTES

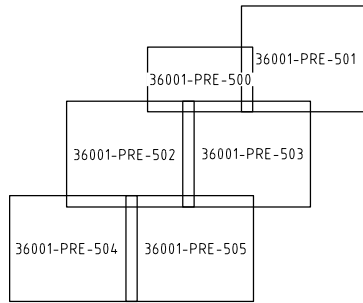
- ALL SEWER MAINS TO BE AS PER SEWER PIPE SPECIFICATIONS TABLE.
- NOTWITHSTANDING THE STANDARD SEQ NOTES ABOVE, ALL MATERIALS AND WORKS MUST BE IN ACCORDANCE WITH THE SERVICE PROVIDER'S APPROVAL CONDITIONS AND THE SEQ WS&S D&C CODE.
- THE CONTRACTOR IS TO INCLUDE ROCK EXCAVATION AS PART OF THEIR SEWER RATES UNLESS SCHEDULED OTHERWISE WITHIN THE CONTRACT.
- THE CONTRACTOR TO PROVIDE CALCAREOUS CONCRETE WHERE SPECIFIED IN THE SEQ CODE BY THE RELEVANT AUTHORITY.
- WATER AND ELECTRICAL CROSSING LOCATIONS ARE INDICATIVE ONLY. REFER TO PLANS TO DETERMINE PRECISE CROSSING LOCATIONS. WHERE SERVICE INDICATES CLASH WITH SEWER, SEWER TO TAKE PRECEDENCE, SERVICE TO BE CONSTRUCTED OVER OR UNDER SEWER ACCORDING TO SUPERINTENDENTS INSTRUCTION
- ALL BENDS TO BE LONG RADIUS BEND, 3m RADIUS U.N.O.
- CONTRACTOR TO VERIFY DOWNSTREAM EXISTING PIPE LEVELS PRIOR TO COMMENCEMENT OF WORKS ON-SITE.
- PROPERTY CONNECTIONS HAVE BEEN DESIGNED TO CONTROL THE REQUIRED SERVICE AREA OF EACH LOT AT A GRADE OF 1:60 AND A MAXIMUM DEPTH OF PROPERTY CONNECTION AT 1.5m. UNLESS OTHERWISE STATED, REFER SEQ STD. DWGS SEQ-SEW-1106-01 TO SEQ-SEW-1106-7 FOR JUNCTION DETAILS.
- CONTRACTOR TO PAY ALL FEES AND CHARGES ASSOCIATED WITH CONNECTIONS

LEGEND

- EXISTING SEWER
- EXISTING RISING MAIN
- EXISTING KERB (INVERT)
- EXISTING EDGE OF BITUMEN
- EXISTING PROPERTY LINE
- EXISTING RETAINING WALL
- EXISTING CONTOURS
- FUTURE SEWER
- FUTURE RISING MAIN
- FUTURE KERB (INVERT)
- FUTURE PROPERTY LINE
- FUTURE RETAINING WALL
- FUTURE CONTOURS
- SITE BOUNDARY
- STAGE BOUNDARY
- PROPOSED KERB (INVERT)
- PROPOSED EDGE OF BITUMEN
- PROPOSED PROPERTY LINE
- PROPOSED RETAINING WALL
- DESIGN CONTOURS
- PROPOSED SEWER
- PROPOSED RISING MAIN
- SEWER MANHOLE
- SEWER RODDING END
- SEWER BEND
- SEWER MAINTENANCE SHAFT
- SEWER END CAP
- SEWER PUMP STATION

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

SHEET LAYOUT



PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

B	13-04-22	CHAINAGES AMENDED, SEWER PIT NO.5 ADDED	EP
A	12-04-22	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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DRAWING TITLE

SEWER RETICULATION
PLAN
SHEET 01

MORTONS
urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination

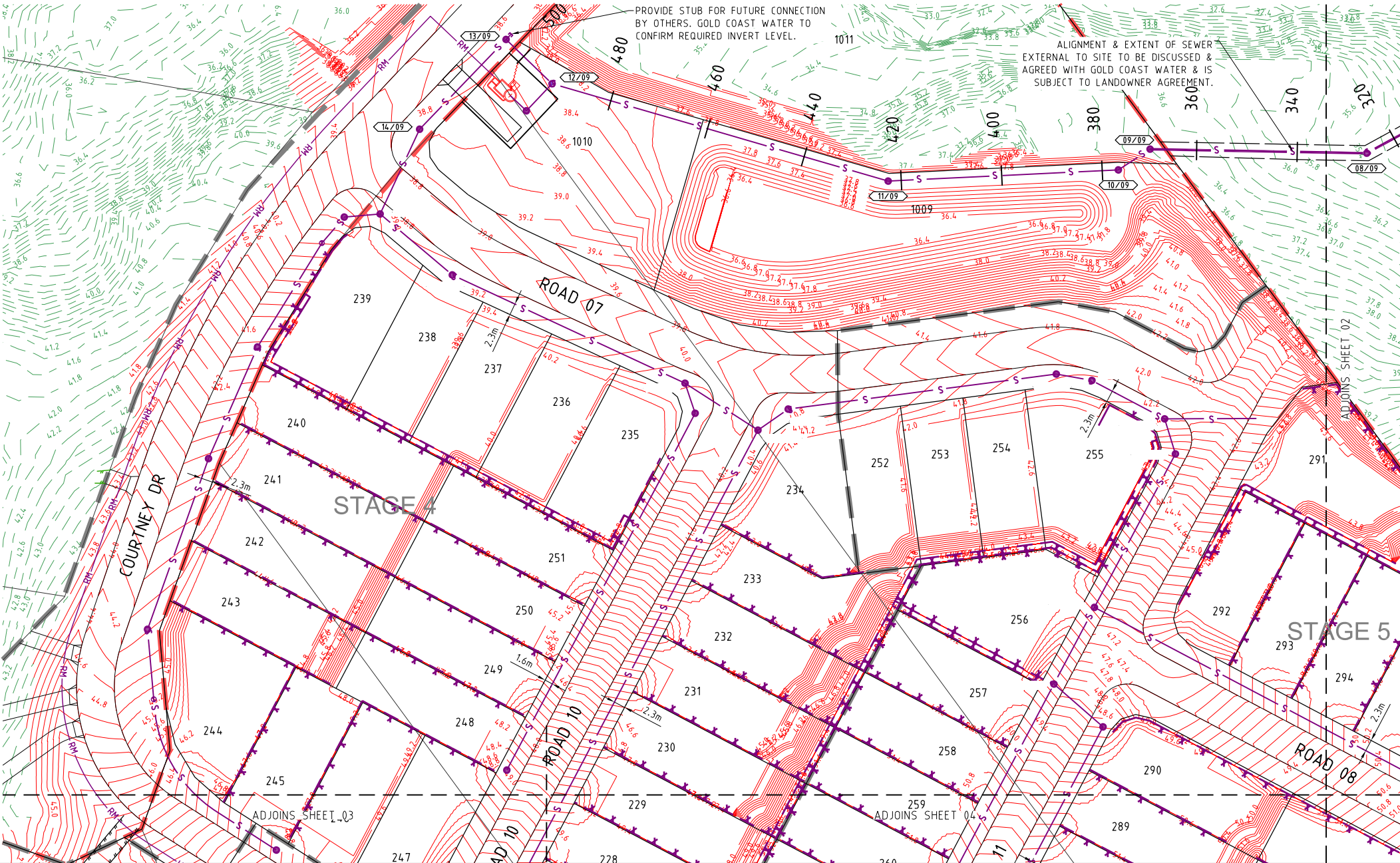
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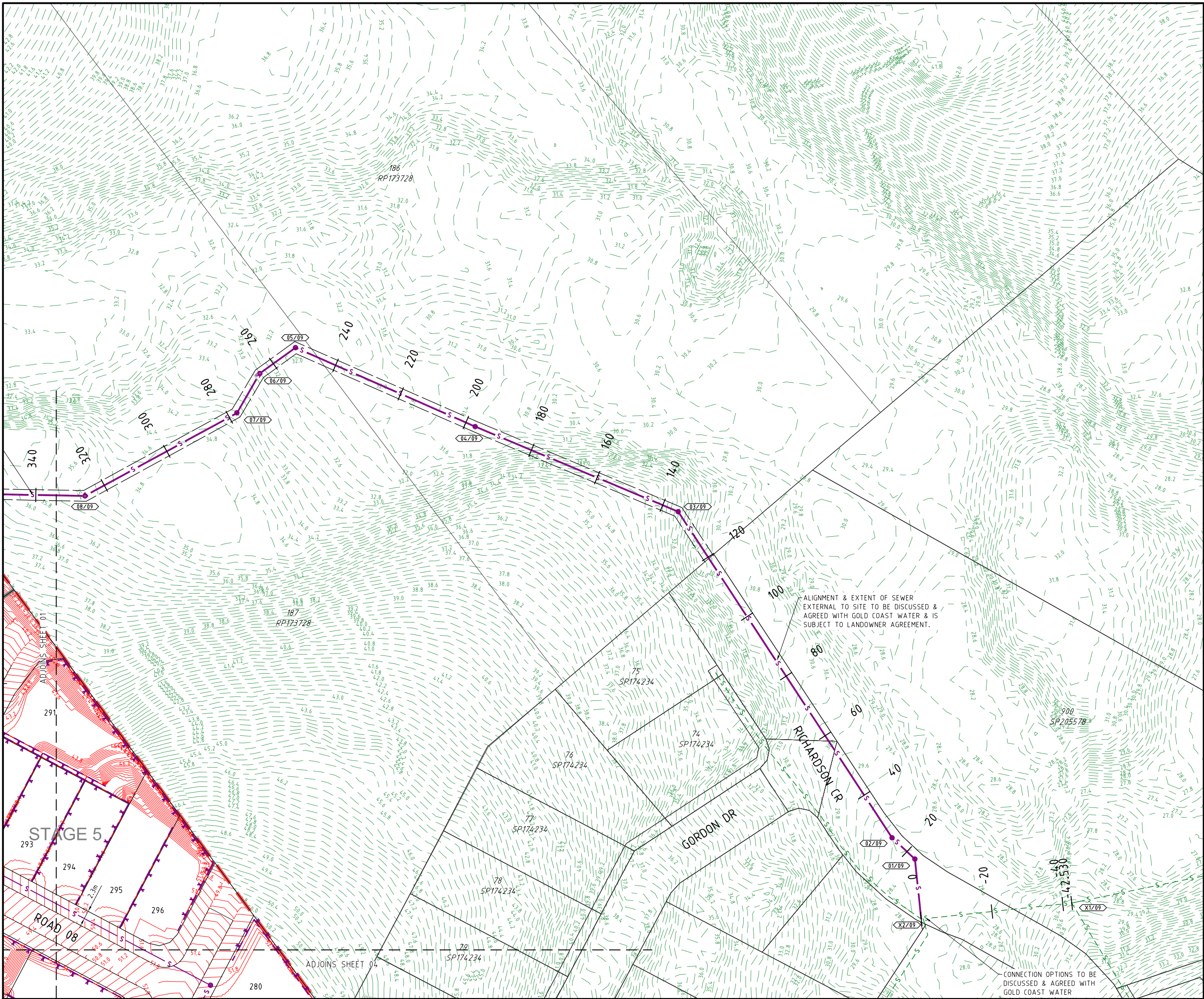
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Southport QLD 4215

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APPROVED A.K.M.	RPEQ 4706 DATE 12-04-22

DRAWING NUMBER	REV
41901-PRE-500	B





PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 5 10 15 20 25m
Scale 1:500 - A1 (1:1000 - A3)

B	13-04-22	CHAINAGES AMENDED, SEWER PIT NO.S ADDED	EP
A	12-04-22	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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SEWER RETICULATION
PLAN
SHEET 02

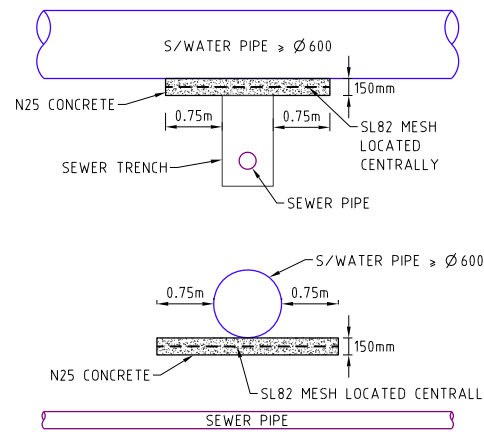


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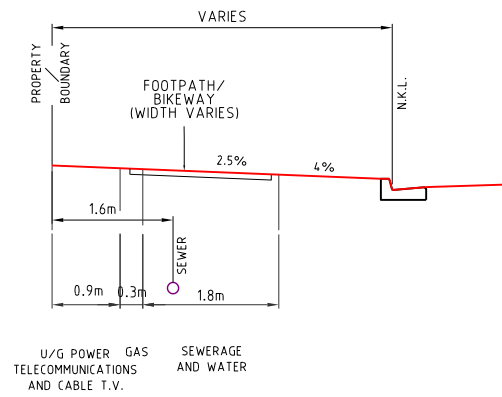
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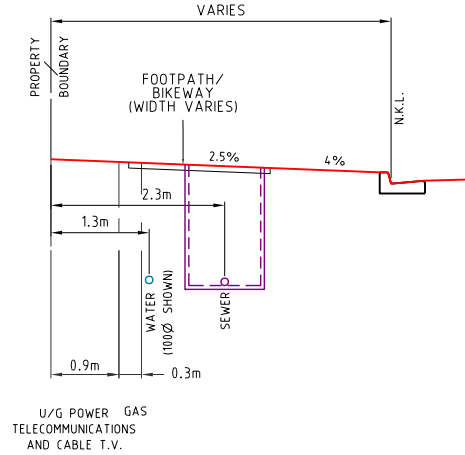
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DRAWING NUMBER 41901-PRE-501	REV B



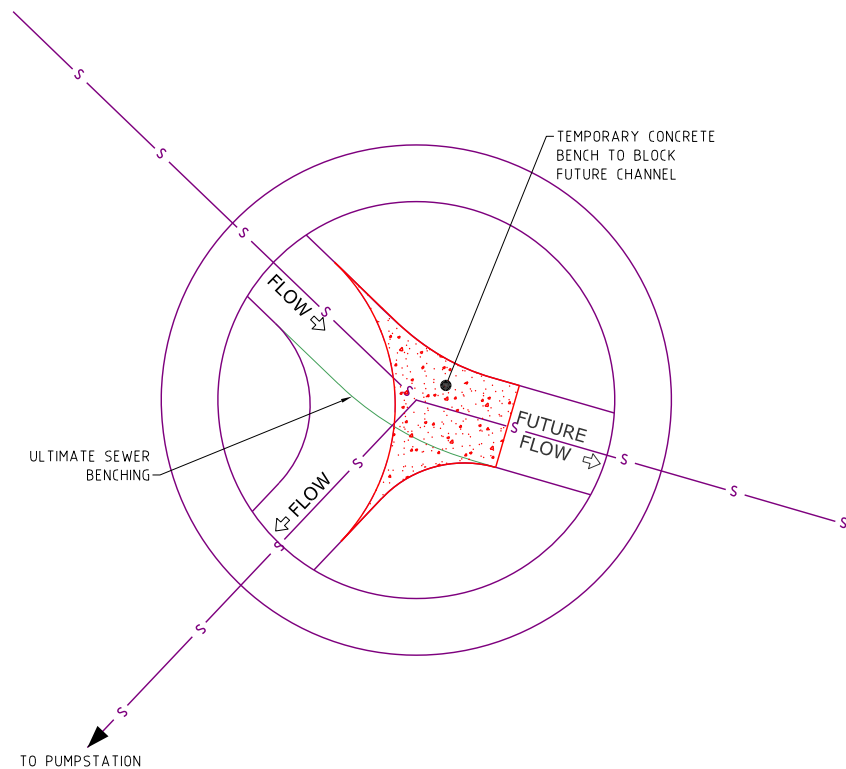
BRIDGING DETAILS FOR
STORMWATER PIPES $\geq \varnothing 600$
NOT TO SCALE



G.C.C.C. TYPICAL SERVICES
SEWER RETICULATION ONLY
SCALE 1:50 - A1 (1:100 - A3)
1. PUBLIC UTILITIES ALLOCATIONS ARE MEASURED FROM THE REAL PROPERTY BOUNDARY.
2. LIGHT POLE, TREE ALLOCATIONS AND FOOTPATHS ARE MEASURED FROM THE NOMINAL KERB LINE.

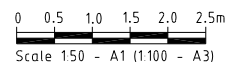


G.C.C.C. TYPICAL POTABLE WATER AND
SEWER RETICULATION (SAME SIDE)
SCALE 1:50 - A1 (1:100 - A3)



TEMPORARY BENCHING DETAIL
MH 12/09
NOT TO SCALE

PROJECT NAME
**COURTNEY DR
UPPER COOMERA**
PRELIMINARY
ENGINEERING
RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL



REV	DATE	DESCRIPTION	INT
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DRAWING TITLE
**SEWER RETICULATION
DETAILS
SHEET 01**

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APPROVED <i>a.k.m.</i>	DATE 12-04-22
DRAWING NUMBER 41901-PRE-510	REV A

PUMP STATION NOTES

GENERAL

1. DETAILS SHOWN ON THESE DRAWINGS ARE TYPICAL ONLY. THE LOCATION OF ALL ITEMS WILL BE AS SHOWN ON THE APPROVED DETAILED DRAWINGS & READ IN CONJUNCTION WITH SEQ WATER SP SPECIFICATIONS FOR SEWAGE PUMPING STATIONS.
2. WHERE SPECIFIC DRIVEWAY ACCESS DETAILS ARE NOT PROVIDED ON THESE DRAWINGS, DRIVEWAY ACCESS TO ALL PUMP & LIFT STATIONS SHALL BE PROVIDED AS FOLLOWS:
- (a) LONGITUDINAL GRADE SHALL BE MAXIMUM 10%.
 - (b) LOCATED SO VEHICULAR TRAFFIC WILL NOT TRAVERSE THE COVERS.
 - (c) HEAVY VEHICLE ACCESS DRIVEWAYS SHALL BE REINFORCED CONCRETE WITH MINIMUM 100MM GRAVEL SUBGRADE.
 - (d) WHERE SPECIFIED, THE DRIVEWAY ACCESS MUST CATER FOR TURNING/MANOEUVRING OF A 8.8M SERVICE VEHICLE.
 - (e) ACCESS ROAD SHALL HAVE THE SAME FLOOD IMMUNITY CRITERIA AS ADJACENT ROAD USED FOR PRIMARY ACCESS.
3. PUMP STATION PLATFORM SHALL BE PROFILED TO SLOPE 1 IN 100 AWAY FROM OPENINGS & SWITCHBOARD PLINTH & THEN BATTER AT 1 IN 6 (MAX.) TO NATURAL SURFACE. ALL SURFACE RUNOFF TO BE ADDRESSED & MANAGED APPROPRIATELY.
4. CONTRACTOR TO PROVIDE A 1.8m HIGH PERSON PROOF FENCE & 4.0m WIDE DOUBLE LEAF LOCKABLE GATE USING ITEMS PERMITTED WITIN THE SEQ CODE PRODUCTS & MATERIALS LIST (CIVIL).
5. FOR GCCC SITES, FOR > 525MM DIA SEWERS SHALL HAVE A KNIFE GATE VALVE INSTALLED ON THE DOWNSTREAM OUTLET. UNITY WATER HAVE VALVE ON THE INLET TO WELL.

ELECTRICAL

1. ELECTRICAL SWITCHBOARD TO BE MINIMUM 1.5M FROM EDGE OF ANY OPENING.

ODOUR CONTROL

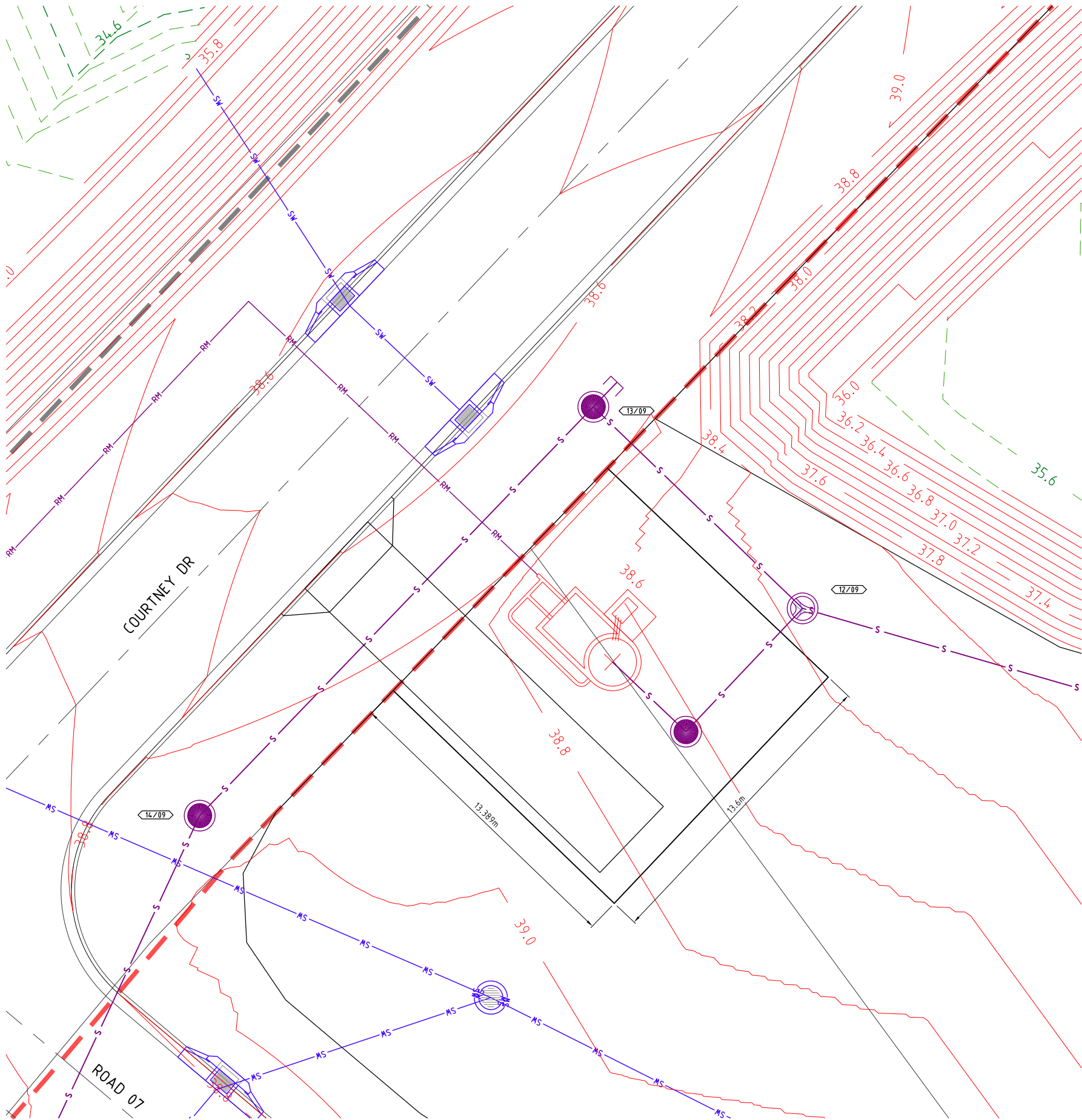
1. CONTRACTOR TO PREPARE ODOUR IMPACT ASSESSMENT REPORT & PROVIDE ODOUR CONTROL IN ACCORDANCE WITH THE REPORT.

LANDSCAPING

1. LANDSCAPING WITHIN PUMP STATION FENCE SHALL BE WEED MAT & MULCH (ie MAINTENANCE FREE). SUPPLY & PLACE WOODCHIP 100MM DEEP OVER AN APPROVED WEED INHIBITING MEDIUM. THE WHOLE AREA SHALL BE TREATED FOR & CLEARED OF WEEDS & GRASS PRIOR TO PLACING THE ABOVE MATERIALS. NO GRASS OR TURF IS TO BE INSTALLED WITHIN FENCE.
2. GENERAL LANDSCAPING OUTSIDE THE FENCE (ie THE SURROUNDS) SHALL BE LANDSCAPED WITH SHRUBS & MULCH. SUPPLY, PLANT & ESTABLISH TREES & SHRUBS AS APPROVED. TOPSOIL STRIPPED PRIOR TO CONSTRUCTION SHALL BE REPLACED ON ALL SURFACES NOT PAVED, INCLUDING BATTER SLOPES & GARDEN BEDS.
3. CONSTRUCT CONCRETE CAST IN SITU GARDEN EDGING AT THE BASE OF THE LANDSCAPED AREA. THE LINE & LEVEL OF THE GARDEN EDGING SHALL BE ESTABLISHED TO THE SATISFACTION OF THE SUPERINTENDENT.

LEGEND

- S— — — — — EXISTING SEWER
- RM— — — — — EXISTING RISING MAIN
- — — — — EXISTING KERB (INVERT)
- — — — — EXISTING PROPERTY LINE
- X—X—X—X—X— EXISTING RETAINING WALL
- 1.0— — — — — EXISTING CONTOURS
- SW— — — — — EXISTING STORMWATER
- W— — — — — EXISTING WATER
- S— — — — — FUTURE SEWER
- RM— — — — — FUTURE RISING MAIN
- — — — — FUTURE KERB (INVERT)
- — — — — FUTURE PROPERTY LINE
- X—X—X—X—X— FUTURE RETAINING WALL
- 1.0— — — — — FUTURE CONTOURS
- SW— — — — — FUTURE STORMWATER
- W— — — — — FUTURE WATER
- — — — — SITE BOUNDARY
- — — — — STAGE BOUNDARY
- — — — — PROPOSED KERB (INVERT)
- — — — — PROPOSED PROPERTY LINE
- X—X—X—X—X— PROPOSED RETAINING WALL
- 1.0— — — — — DESIGN CONTOURS
- SW— — — — — PROPOSED STORMWATER
- W— — — — — PROPOSED WATER
- S— — — — — PROPOSED SEWER
- RM— — — — — PROPOSED RISING MAIN
- SEWER MANHOLE
- SEWER RODDING END
- SEWER BEND
- SEWER MAINTENANCE SHAFT
- SEWER END CAP
- SEWER PUMP STATION
- 01-10 SEWER PIT NO/LINE



NOTE

1. REFER TO LANDSCAPE DRAWINGS FOR PUMP STATION SITE LANDSCAPE WORKS
2. ELECTRICAL PROPERTY SERVICE TO BE INSTALLED FROM ELECTRICAL PILLAR

PROJECT NAME
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PRELIMINARY
ENGINEERING

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COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 1 2 3 4 5m
Scale 1:100 - A1 (1:200 - A3)

B	13-04-22	DIMENSIONS ADDED	EP
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DRAWING TITLE

SEWER PUMP STATION
NOTES AND SITE LAYOUT
SHEET 01

MORTONS
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Southport QLD 4215

DESIGNED RB DRAWN EP

APPROVED *AK* RPEQ 4706 DATE 12-04-22

DRAWING NUMBER

41901-PRE-520

REV

B

SEWER STRUCTURE LIDS	
D	TRAFFICABLE LID
B	NON-TRAFFICABLE LID
M	'M' PREFIX DESIGNATES BOLT DOWN LID

RIGS STRUCTURE TYPES	
P(x)	PRECAST CONCRETE SEWER MAINTENANCE STRUCTURE REFER TO SEQ STD DWG SEQ-SEW-1300-1
A	TYPE 'A' 1050mm DIA. MAINTENANCE STRUCTURE REFER TO SEQ STD DWGS SEQ-SEW-1307-1
B	TYPE 'B' 1200mm DIA. MAINTENANCE STRUCTURE REFER TO SEQ STD DWGS SEQ-SEW-1307-1
C	TYPE 'C' 1500mm DIA. MAINTENANCE STRUCTURE REFER TO SEQ STD DWGS SEQ-SEW-1307-1
J1	TYPE 'J1' MAINTENANCE STRUCTURE REFER TO SEQ STD DWGS SEQ-SEW-1314-2
BND	BEND REFER TO SEQ STD DWGS SEQ-SEW-1314-3
RE	RODDING END MAINTENANCE STRUCTURE REFER TO SEQ STD DWGS SEQ-SEW-1314-1
END	PROPRIETARY END CAP
PS	SEWER PUMP STATION REFER TO RELEVANT SEQ STD DWGS
RCM	RECEIVING MAINTENANCE STRUCTURE REFER TO RELEVANT SEQ STD SEWER PUMP STATION DWGS
G6	TYPE 'G6' TERMINAL MAINTENANCE SHAFT REFER TO SEQ STD DWGS SEQ-SEW-1314-1

RIGS STRUCTURE DROPS	
V	STRAIGHT THROUGH SEWER REFER TO SEQ STD DWG SEQ-SEW-1303-1
W	OBLIQUE BACKDROP REFER TO SEQ STD DWG SEQ-SEW-1303-1
X	INTERNAL BACKDROP REFER TO SEQ STD DWG SEQ-SEW-1303-1
Y	EXTERNAL BACKDROP REFER TO SEQ STD DWG SEQ-SEW-1303-1

STRUCTURE TYPE
LID CLASS
DROP TYPE

* CONSTRUCT BRIDGING
STRUCTURE SPANNING THE
SEWER TRENCH REFER
TYPICAL SECTIONS &
DETAILS FOR BRIDGING
STRUCTURE DETAILS

| TRENCHSTOPS,
BULKHEADS & CONCRETE
ENCASEMENTS TO BE
INSTALLED IN ACCORDANCE
WITH SEQ SEWER CODE
NOTES

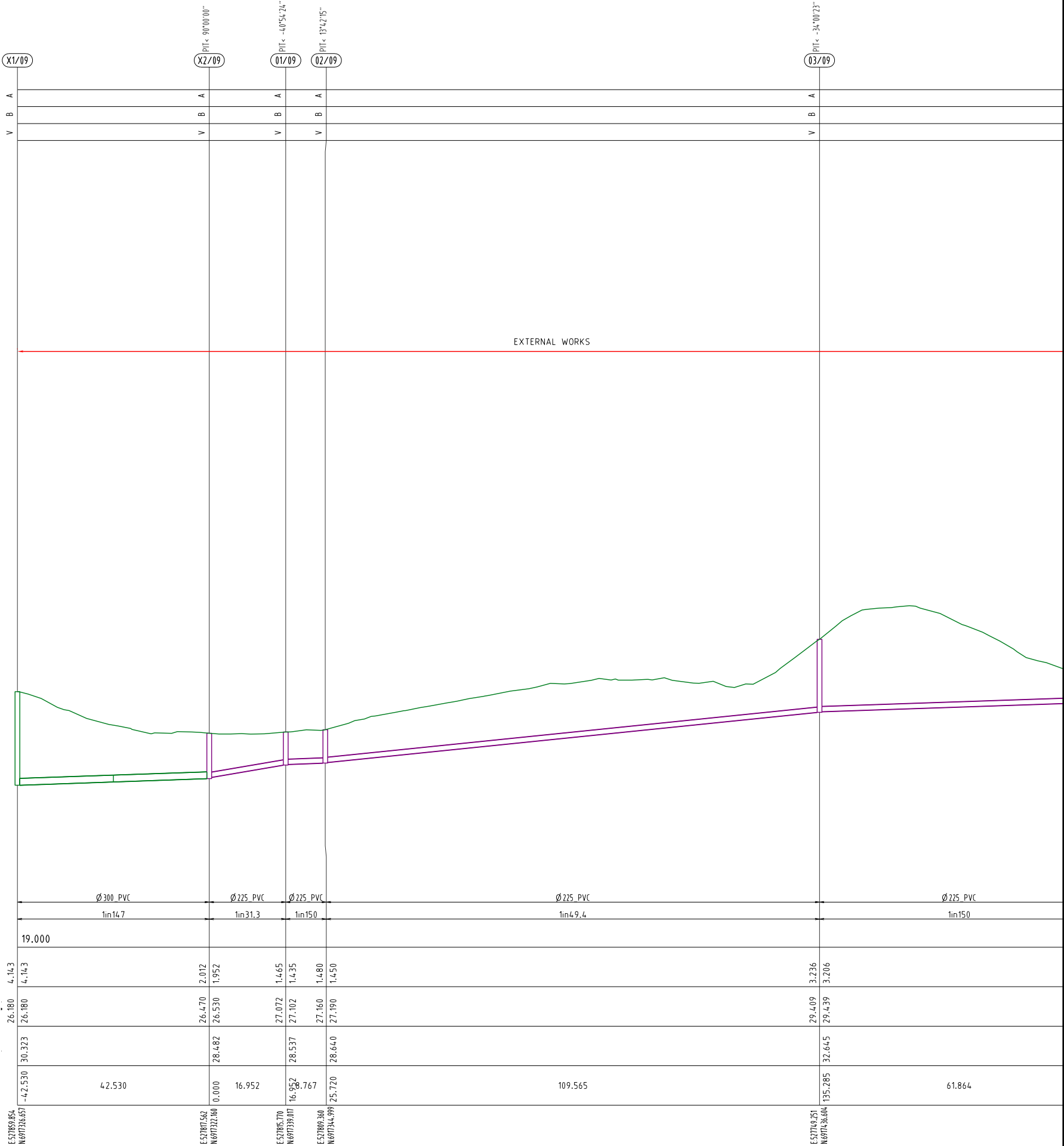
- IF SHOWN, WATER AND
ELECTRICAL CROSSING
LOCATIONS ARE
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TO PLANS TO DETERMINE
CROSSING LOCATIONS.
WHERE SERVICE
INDICATES CLASH WITH
SEWER, SEWER TO TAKE
PRECEDENCE, SERVICE TO
BE CONSTRUCTED OVER
OR UNDER SEWER
ACCORDING TO
SUPERINTENDENTS
INSTRUCTION
- ALL GRAVITY uPVC
SEWER PIPE TO BE
CLASS SN8 U.N.O.
- ALL PRESSURE MAIN
uPVC SEWER PIPE TO BE
CLASS SN16 U.N.O.
- ALL EMBEDMENT TYPE IS
TO BE TYPE 3 U.N.O
- ALL BENDS TO BE LONG
RADIUS BEND, 3m RADIUS
- CONTRACTOR TO VERIFY
DOWNSTREAM EXISTING
PIPE LEVELS PRIOR TO
COMMENCEMENT OF
PIPEWORK
- PROTECTIV COATING IS
TO BE INSTALLED TO
MAINTENANCE
STRUCTURES (WHERE
REQUIRED) IN
ACCORDANCE WITH
CLAUSE 4.7.2 OF SEQ
SEWERAGE CODE.

PIPE DIAMETER (mm)
PIPE GRADE

DATUM R.L.

DEPTH TO INVERT
PIPE INVERT LEVELS
DESIGN SURFACE LEVELS
CHAINAGE

LINE NO.



PROJECT NAME

COURTNEY DR
UPPER COOMERA

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



0 5 10 15 20 25m

Horiz. Scale 1:500 - A1 (1:1000 - A3)

0 1 2 3 4 5m

Vert. Scale 1:100 - A1 (1:200 - A3)

B	13-04-22	LIMIT OF EXTERNAL WORKS SHOWN	EP
A	12-04-22	COUNCIL ISSUE	EP
REV	DATE	DESCRIPTION	INT

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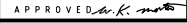

DRAWING TITLE

SEWER RETICULATION
PROFILES
SHEET 01


Urban & Regional Planning
Civil Engineering
Project Coordination

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DESIGNED RB	DRAWN EP
APPROVED 	PEREQ4706 DATE 12-04-22
DRAWING NUMBER 41901-PRE-530	REV B

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STRUCTURE TYPE
LID CLASS
DROP TYPE

* CONSTRUCT BRIDGING
STRUCTURE SPANNING THE
SEWER TRENCH REFER
TYPICAL SECTIONS &
DETAILS FOR BRIDGING
STRUCTURE DETAILS

| TRENCHSTOPS,
BULKHEADS & CONCRETE
ENCASEMENTS TO BE
INSTALLED IN ACCORDANCE
WITH SEQ SEWER CODE

NOTES

1.IF SHOWN, WATER AND
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SEWER, SEWER TO TAKE
PRECEDENCE, SERVICE TO
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OR UNDER SEWER
ACCORDING TO
SUPERINTENDENTS
INSTRUCTION

2.ALL GRAVITY uPVC
SEWER PIPE TO BE
CLASS SN8 U.N.O.

3.ALL PRESSURE MAIN
uPVC SEWER PIPE TO BE
CLASS SN16 U.N.O.

4.ALL EMBEDMENT TYPE IS
TO BE TYPE 3 U.N.O

5.ALL BENDS TO BE LONG
RADIUS BEND, 3m RADIUS

6.CONTRACTOR TO VERIFY
DOWNSTREAM EXISTING
PIPE LEVELS PRIOR TO
COMMENCEMENT OF
PIPEWORK

7.PROTECTIV COATING IS
TO BE INSTALLED TO
MAINTENANCE
STRUCTURES (WHERE
REQUIRED) IN
ACCORDANCE WITH
CLAUSE 4.7.2 OF SEQ
SEWERAGE CODE.

PIPE DIAMETER (mm)

PIPE GRADE

DATUM R.L.

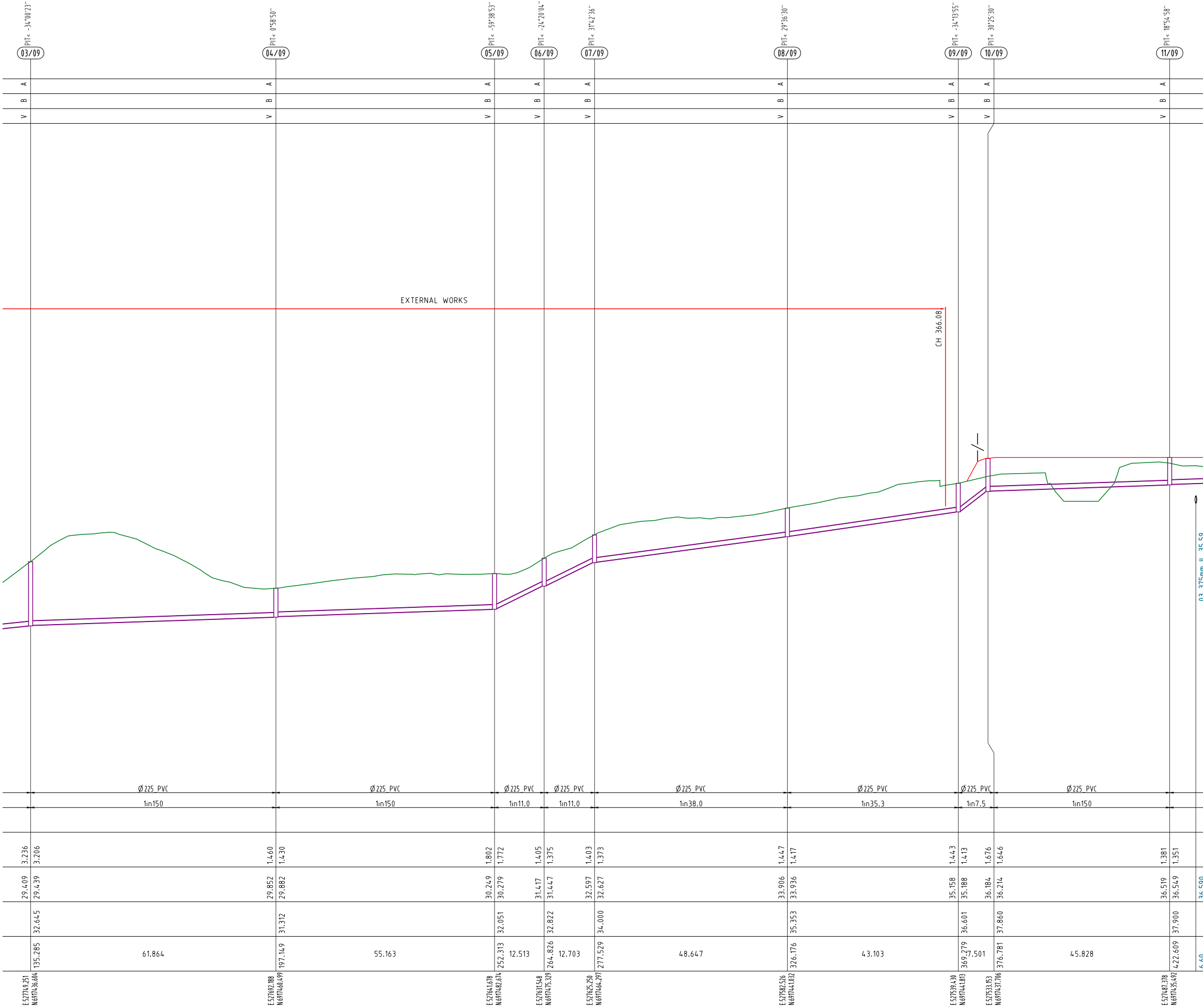
DEPTH TO INVERT

PIPE INVERT
LEVELS

DESIGN SURFACE
LEVELS

CHAINAGE

LINE NO.



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STRUCTURE TYPE
LID CLASS
DROP TYPE

* CONSTRUCT BRIDGING
STRUCTURE SPANNING THE
SEWER TRENCH REFER
TYPICAL SECTIONS &
DETAILS FOR BRIDGING
STRUCTURE DETAILS
| TRENCHSTOPS,
BULKHEADS & CONCRETE
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WITH SEQ SEWER CODE
NOTES

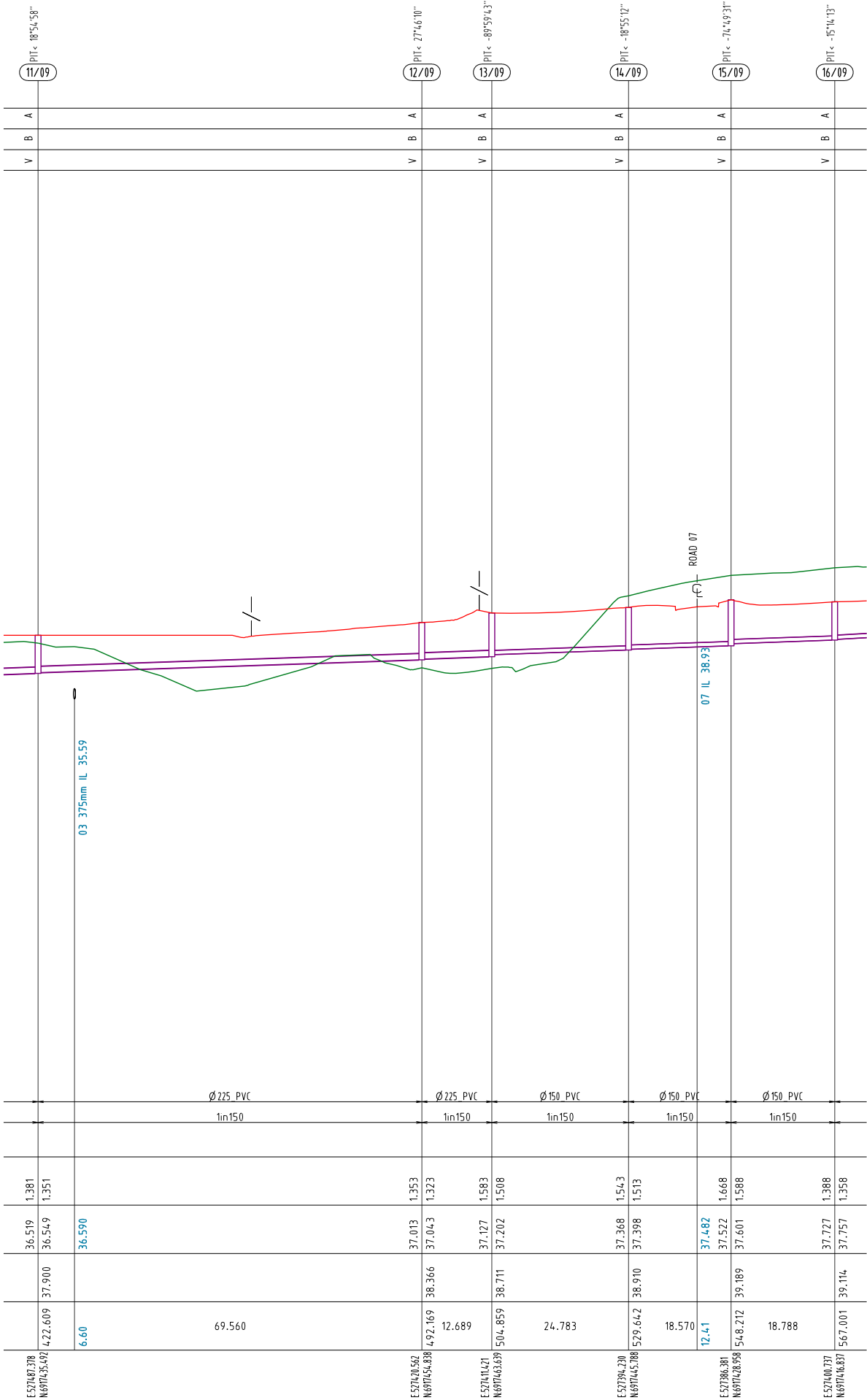
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CLASS SN16 U.N.O.
4.ALL EMBEDMENT TYPE IS
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RADIUS BEND, 3m RADIUS
6.CONTRACTOR TO VERIFY
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SEWERAGE CODE.

PIPE DIAMETER (mm)
PIPE GRADE

DATUM R.L.

DEPTH TO INVERT
PIPE INVERT LEVELS
DESIGN SURFACE LEVELS
CHAINAGE

LINE NO.



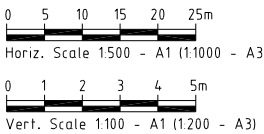
09

PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
LOCAL AUTHORITY - GOLD COAST CITY COUNCIL

CLIENT



REV	DATE	DESCRIPTION	INT
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DRAWING TITLE

SEWER RETICULATION
PROFILES
SHEET 03



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Southport QLD 4215

DESIGNED RB DRAWN EP

APPROVED *AK* RPEQ4706 DATE 12-04-22

DRAWING NUMBER
41901-PRE-532

REV
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DESIGN
SURFACE LEVEL

EXISTING
SURFACE LEVEL

OFFSET

DATUM R.L. 25.0					
-10	31.249				
-5	30.899				
-1.5	30.508				
0	30.323				
1.5	30.138				
5	29.743				
10	29.036				

CH 0

DATUM R.L. 23.0					
-10	28.454				
-5	28.786				
-1.5	28.889				
0	28.889				
1.5	28.847				
5	28.758				
10	28.742				

CH 20

DATUM R.L. 23.0					
-10	28.447				
-5	28.558				
-1.5	28.548				
0	28.525				
1.5	28.502				
5	28.517				
10	28.496				

CH 40

DATUM R.L. 25.0					
-10	28.484				
-5	28.496				
-1.5	28.514				
0	28.539				
1.5	28.571				
5	28.646				
10	28.714				

CH 60

DATUM R.L. 24.0					
-10	29.751				
-5	29.449				
-1.5	29.31				
0	29.271				
1.5	29.246				
5	29.276				
10	29.196				

CH 80

DATUM R.L. 24.0					
-10	30.462				
-5	30.119				
-1.5	30.027				
0	30.013				
1.5	29.995				
5	29.96				
10	29.853				

CH 100

DATUM R.L. 25.0					
-10	32.625				
-5	31.414				
-1.5	30.718				
0	30.678				
1.5	30.639				
5	30.628				
10	30.494				

CH 120

DATUM R.L. 25.0					
-10	33.076				
-5	31.399				
-1.5	30.943				
0	30.863				
1.5	30.877				
5	30.895				
10	30.683				

CH 140

DATUM R.L. 26.0					
-10	32.808				
-5	31.718				
-1.5	30.745				
0	30.575				
1.5	30.512				
5	30.623				
10	30.64				

CH 160

DATUM R.L. 26.0					
-10	33.571				
-5	33.243				
-1.5	33.05				
0	32.998				
1.5	32.964				
5	32.742				
10	31.76				

CH 180

DATUM R.L. 26.0					
-10	34.968				
-5	34.615				
-1.5	34.285				
0	34.039				
1.5	33.848				
5	33.131				
10	31.066				

CH 200

DATUM R.L. 26.0					
-10	34.975				
-5	33.794				
-1.5	32.786				
0	32.308				
1.5	31.83				
5	31.213				
10	30.448				

CH 220

DATUM R.L. 28.0					
-10	31.863				
-5	31.461				
-1.5	31.354				
0	31.316				
1.5	31.28				
5	31.236				
10	31.312				

CH 240

DATUM R.L. 27.0					
-10	31.655				
-5	31.772				
-1.5	31.83				
0	31.829				
1.5	31.823				
5	31.761				
10	31.641				

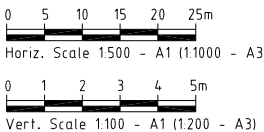
CH 260

PROJECT NAME
**COURTNEY DR
UPPER COOMERA**

PRELIMINARY
ENGINEERING

RP DESCRIPTION
LOT 188, 189, 190, 191 & 192 ON RP173728
COURTNEY DRIVE
LOCALITY OF UPPER COOMERA
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DRAWING TITLE

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urbansolutions
Urban & Regional Planning
Civil Engineering
Project Coordination

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