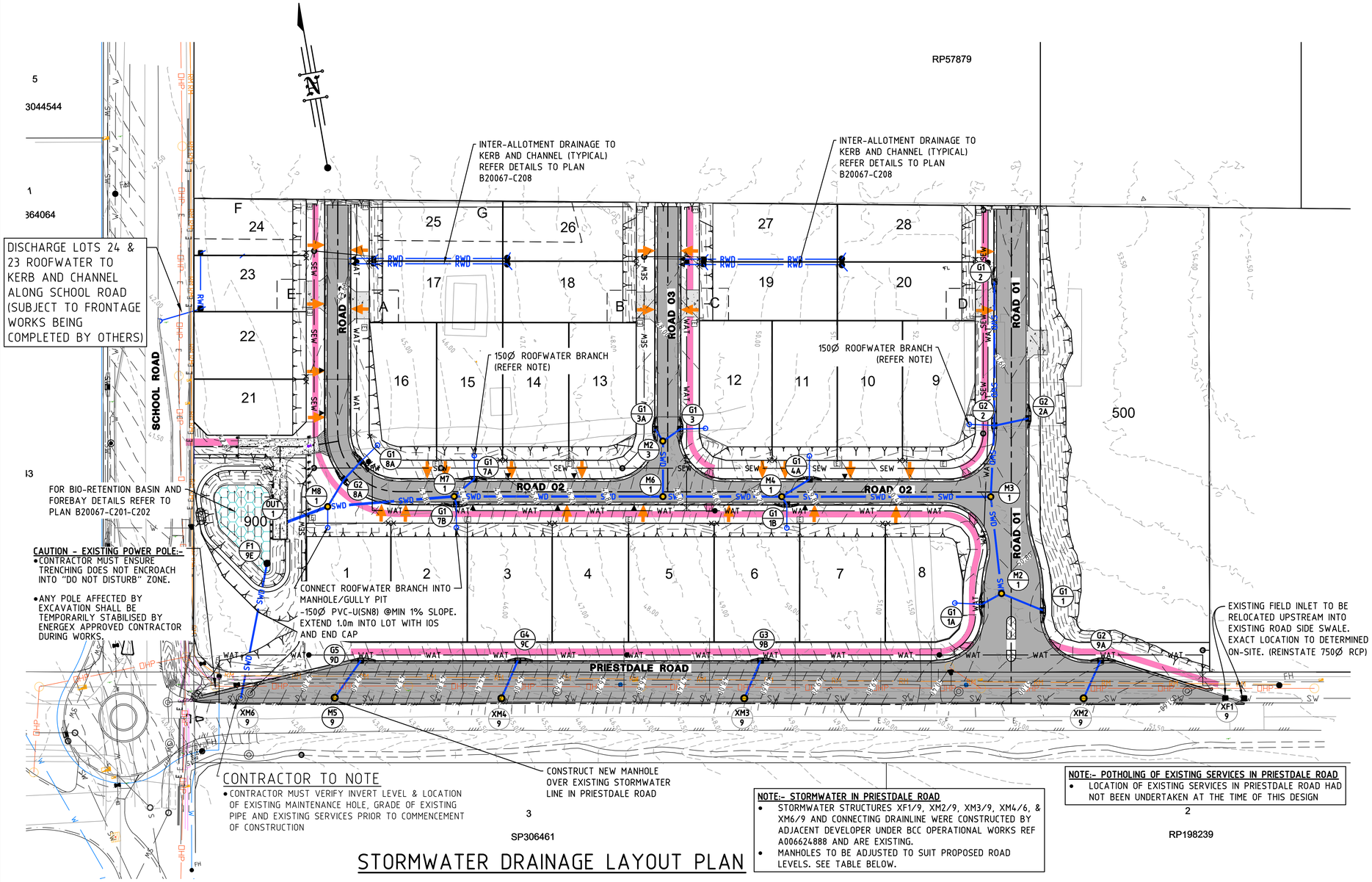


STORMWATER DRAINAGE LAYOUT PLAN

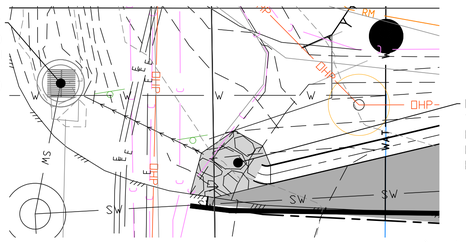
SCALE 1 : 500 (0 5 10 15m)

NOTE:- STORMWATER IN PRIESTDALE ROAD
- STORMWATER STRUCTURES XF1/9, XM2/9, XM3/9, XM4/6, & XM6/9 AND CONNECTING DRAINLINE WERE CONSTRUCTED BY ADJACENT DEVELOPER UNDER BCC OPERATIONAL WORKS REF A006624888 AND ARE EXISTING.
- MANHOLES TO BE ADJUSTED TO SUIT PROPOSED ROAD LEVELS. SEE TABLE BELOW.

NOTE:- POTHOLING OF EXISTING SERVICES IN PRIESTDALE ROAD
- LOCATION OF EXISTING SERVICES IN PRIESTDALE ROAD HAD NOT BEEN UNDERTAKEN AT THE TIME OF THIS DESIGN

STRUCTURE NO.	PROPOSED SURFACE LEVEL	EXISTING SURFACE LEVEL	DIFFERENCE	
EX1/9	40.580	40.633	-0.053	LOWER
XM6/9	41.291	41.320	-0.029	LOWER
5/9	42.620			PROPOSED
XM4/9	44.810	44.661	0.149	RAISE
XM3/9	48.367	48.347	0.020	RAISE
XM2/9	51.337	51.341	-0.004	LOWER
XF1/9	51.749	51.781	-0.032	RELOCATED

EXISTING 900x900 FIELD INLET OVER Ø1200 MANHOLE TO REMAIN (CONSTRUCTED AS PART OF BCC METRO PROJECT)



INVERTED CHANNEL TO DISCHARGE TOWARDS EXISTING FIELD INLET, AWAY FROM SEALED ROAD PAVEMENT. STONE PITCHING TO BE INSTALLED AT END OF KERB & CHANNEL TO PREVENT SCOUR.

INVERTED CHANNEL INSET

SCALE 1 : 100 (0 1 2 3m)

NOTES:- ROOFWATER CONNECTIONS

1. LOTS 1,2,6,8,9,11,12,15 & 16 SHALL BE PROVIDED WITH 150Ø PVC (CLASS SN8) ROOFWATER BRANCH CONNECTED INTO ROADWAY GULLY PITS AND EXTENDED 1.0m INTO LOTS AT MINIMUM 1.0% SLOPE. PROVIDE END CAP AND INSPECTION OPENING TO SURFACE.
2. END OF ROOFWATER BRANCH WITHIN LOT SHALL BE MINIMUM 1.0m DEPTH BELOW FINISHED LOT LEVEL.
3. ALL OTHER LOTS SHALL BE PROVIDED WITH 2 x KERB ADAPTORS INSTALLED INTO KERB & CHANNEL IN ACCORDANCE WITH BCC STD DRG BSD-8114 AND BSD-8115.
4. WHERE FOOTPATH IS PROPOSED ACROSS LOT FRONTAGES - EACH KERB ADAPTOR SHALL BE EXTENDED ACROSS THE VERGE INTO LOT WITH 125X75 RHS IN ACCORDANCE WITH BCC STD DWG BSD-8114.

LEGEND - LINEWORK (proposed)

- PROPOSED A.C. SURFACED PAVEMENT
- PROPOSED CONCRETE ACCESS ROAD AND MAINTENANCE ACCESS RAMP
- PROPOSED 1.20m WIDE FOOTPATH. REFER BCC STD. DWG. BSD-5201 FOR DETAILS
- PROPOSED BIO-RETENTION BASIN FILTER MEDIA
- MOUNTABLE KERB & CHANNEL (TYPE D) (REFER BCC STD DRG BSD-2001)
- BARRIER KERB & CHANNEL (TYPE E) (REFER BCC STD DRG BSD-2001)
- PROPOSED ROAD CONTROL CENTRE LINE
- PROPOSED FINISHED SURFACE
- 2 x KERB ADAPTOR. (REFER TO BCC STD DRG BSD-8114, BSD-8115 AND B20067-C200). (EXTEND 2x125X75 RHS ACROSS CONCRETE FOOTPATH)
- PROPOSED STORMWATER MANHOLE (REFER STORMWATER LONGITUDINAL SECTIONS)
- PROPOSED STORMWATER GULLY PIT (REFER STORMWATER LONGITUDINAL SECTIONS)
- PROPOSED STORMWATER FIELD INLET PIT (REFER STORMWATER LONGITUDINAL SECTIONS)
- 150Ø RWD PROPOSED ROOFWATER MAIN
- SEW PROPOSED SEWER MAIN
- WAT PROPOSED WATER MAIN
- W/C PROPOSED WATER SERVICE CONDUIT ROAD CROSSING
- PROPOSED CONCRETE SLEEPER RETAINING WALL. (REFER GENERAL ARRANGEMENT DETAIL ON DWG. B20067-C302
- PROPOSED EARTHWORKS BATTER SLOPE (Max. 1 in 4 SLOPE u.n.o.)
- PROPOSED DRIVEWAY LOCATIONS

LEGEND - LINEWORK (existing)

- EXIST. SURFACE CONTOUR
- EXISTING EDGE OF BITUMEN
- SW EXISTING STORMWATER
- S EXISTING SEWER PIPE
- OHP EXISTING OVERHEAD POWER LINE AND POWER LINES
- CM (D) EXISTING COMMUNICATION
- EXISTING WATER MAIN
- W EXISTING WATER MAIN (UNDER CONSTRUCTION)
- EXISTING VALVE (UNDER CONSTRUCTION)
- EXISTING HYDRANT (UNDER CONSTRUCTION)

BCC DS
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APPLICATION REF
A007036958

Associated Consultants:
SURVEYOR:
WOLTER CONSULTING PTY LTD
PHONE 07 3666 5200

R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	ISSUE FOR TENDER	
E	28.10.25	S.G.	ISSUE FOR TENDER	
D	4.09.23	M.B.	ISSUE FOR TENDER	
C	18.07.23	M.Y.B.	RFI RESPONSE	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
G	09.12.25	S.G.	AMENDED TO SUIT WORKS CONSTRUCTED BY OTHERS	

L+R ENGINEERS MANAGERS SCIENTISTS
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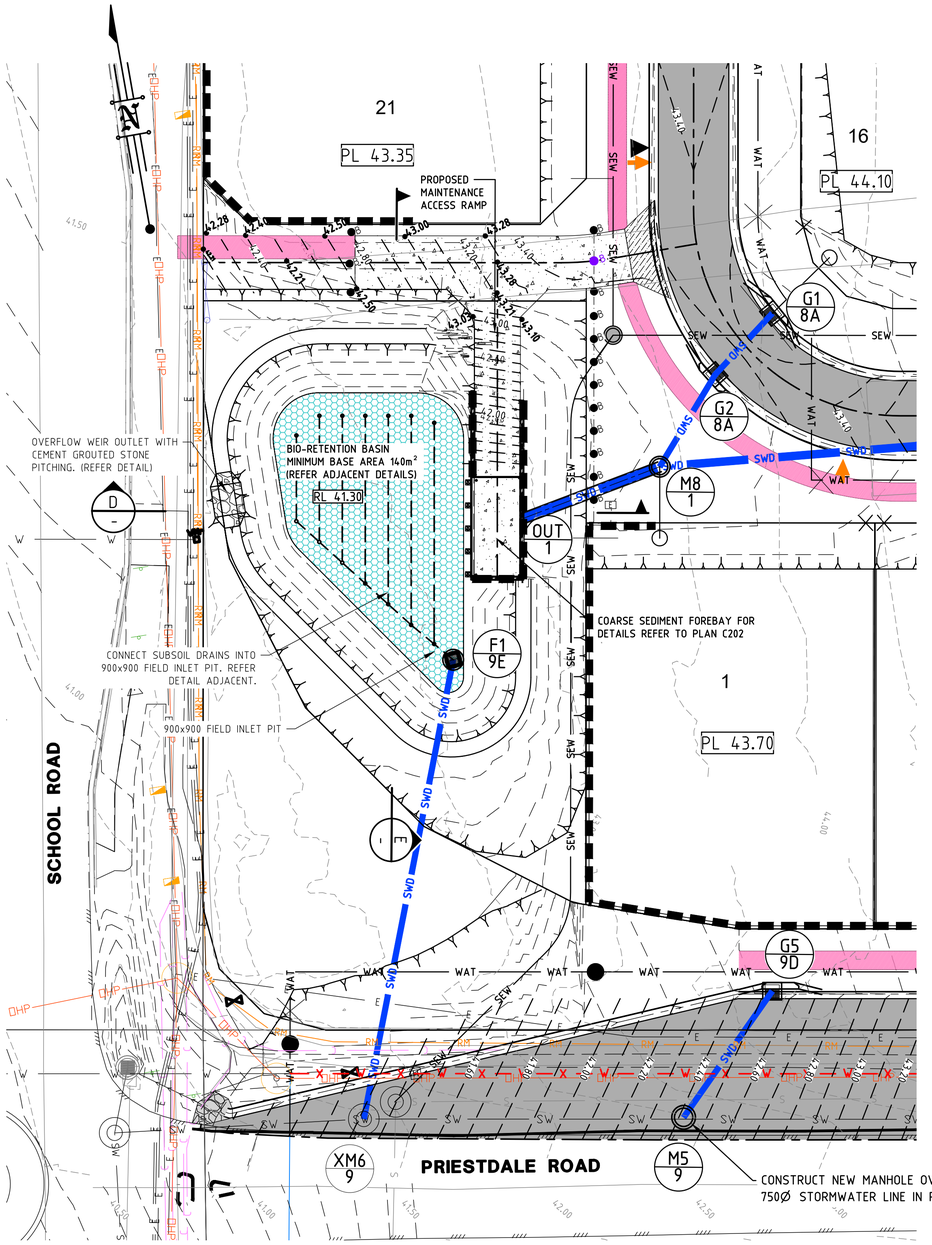
Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER DRAINAGE LAYOUT PLAN

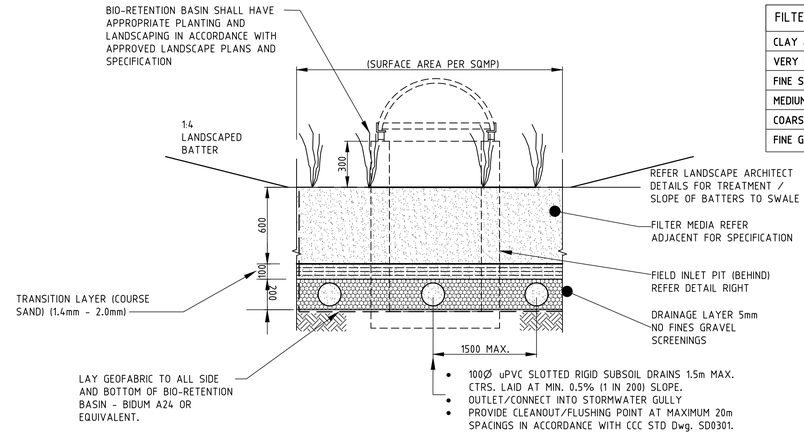
Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.	Checked: D.L.	Sheet Size: A1	Drawing No.: B20067-C200
Designer: H.W.	Approved: A.PEZZUTTI RPEQ No: 6382		
Scale: AS SHOWN	FEB '23	G	B C D E F



BIO-RETENTION BASIN - LAYOUT PLAN

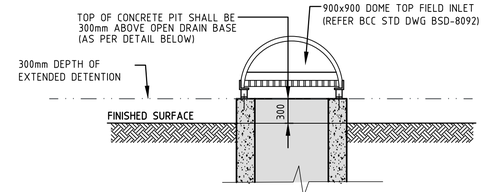
SCALE 1 : 200



TYPICAL SECTION - BIO-RETENTION BASIN

N.T.S

FILTER MEDIA SPECIFICATION/PARTICLE SIZE DISTRIBUTION		
CLAY & SILT	<3%	(<0.05mm)
VERY FINE SAND	5-30%	(0.05-0.15mm)
FINE SAND	10-30%	(0.05-0.25mm)
MEDIUM TO COARSE	40-60%	(0.25-1.0mm)
COARSE SAND	7-10%	(1.0-2.0mm)
FINE GRAVEL	<3%	(2.0-3.4mm)

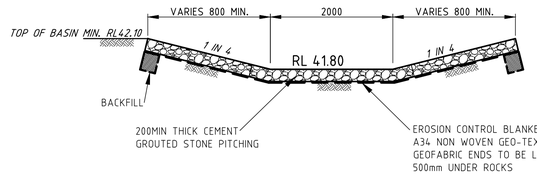


TYPICAL FIELD INLET PIT DETAIL (BIO-RETENTION BASIN)

SCALE 1 : 25

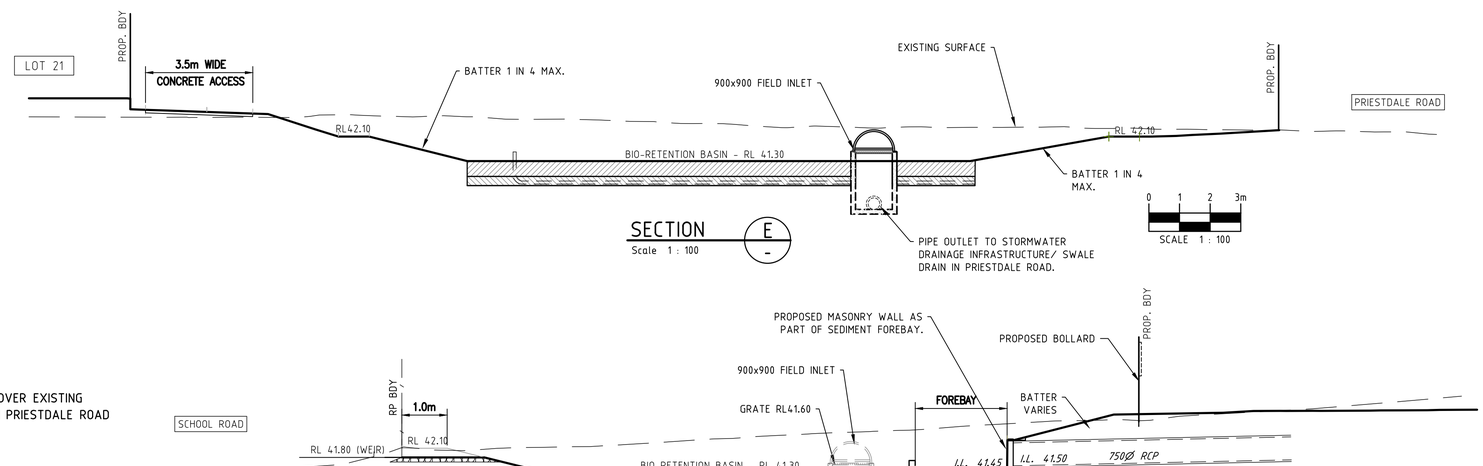
NOTES - BIO-RETENTION BASIN

1. LOCATION AND AREA OF BIO-RETENTION TRENCH SHALL BE AS INDICATED. TO BE IN ACCORDANCE WITH THE APPROVED STORMWATER QUALITY MANAGEMENT PLAN PREPARED BY LAMBERT & REHBEIN (SEQ) PTY LTD DOCUMENT NO. B20067CR002.
2. ALL BIO-RETENTION CONSTRUCTION SHALL BE CARRIED OUT IN ACCORDANCE WITH FACILITY FOR ADVANCING WATER BIO-FILTRATION (FAWB) GUIDELINES & PUBLICATIONS AND BRISBANE CITY COUNCIL RECOMMENDATIONS.
3. PLANTINGS WITHIN BIO-RETENTION BASIN SHALL BE IN ACCORDANCE WITH THE APPROVED LANDSCAPE PLANS AND SHALL BE GRASSES AND LOW SHRUBS IN ACCORDANCE WITH THE FAWB RECOMMENDATIONS.
4. ALL BIO-RETENTION TRENCHES AND FIELD INLET ARRANGEMENTS SHALL BE IN ACCORDANCE WITH BRISBANE CITY COUNCIL.



OVERFLOW WEIR PROFILE

N.T.S



BIO-RETENTION BASIN TYPICAL SECTIONS

BCC DS
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Associated Consultants:
SURVEYOR:
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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: BIO-RETENTION BASIN DETAILS

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.	Checked: D.L.	Sheet Size: A1	Drawing No.: B20067-C201
Designer: H.W.	Approved: A.PEZZUTTI RPEQ No: 6382		
Scale: AS SHOWN	MAY '23	G B C D E F	

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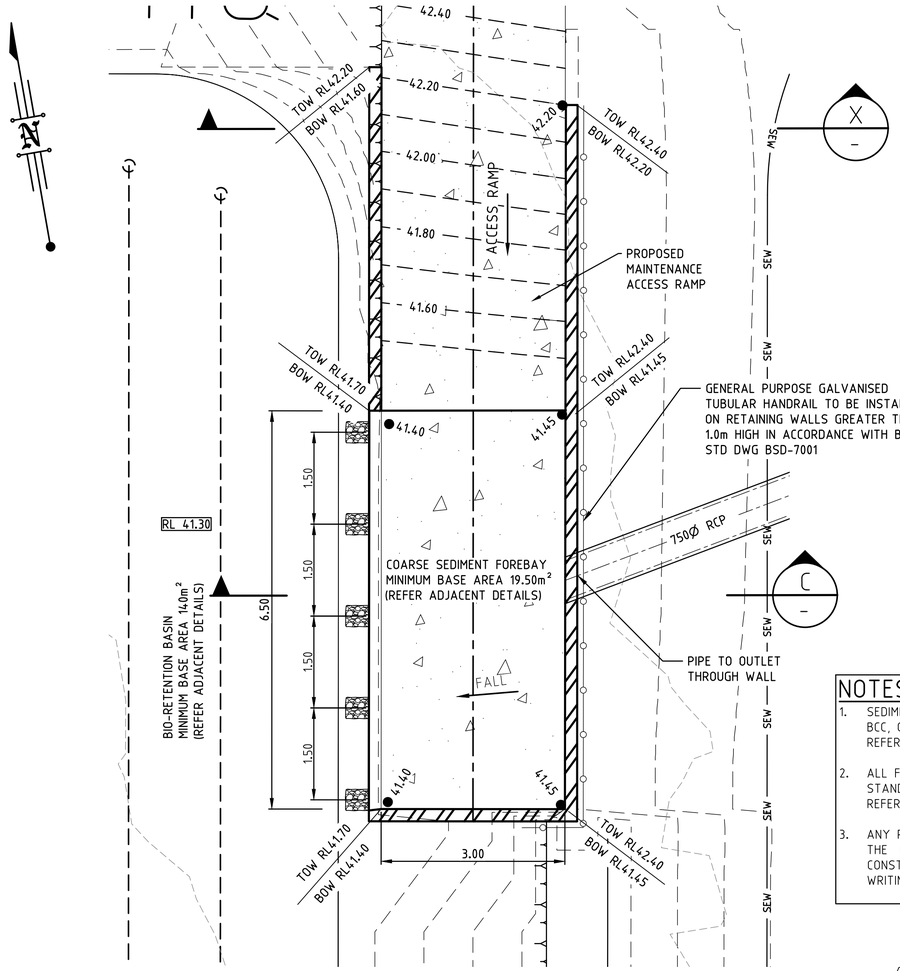


COARSE SEDIMENT FOREBAY - LAYOUT PLAN

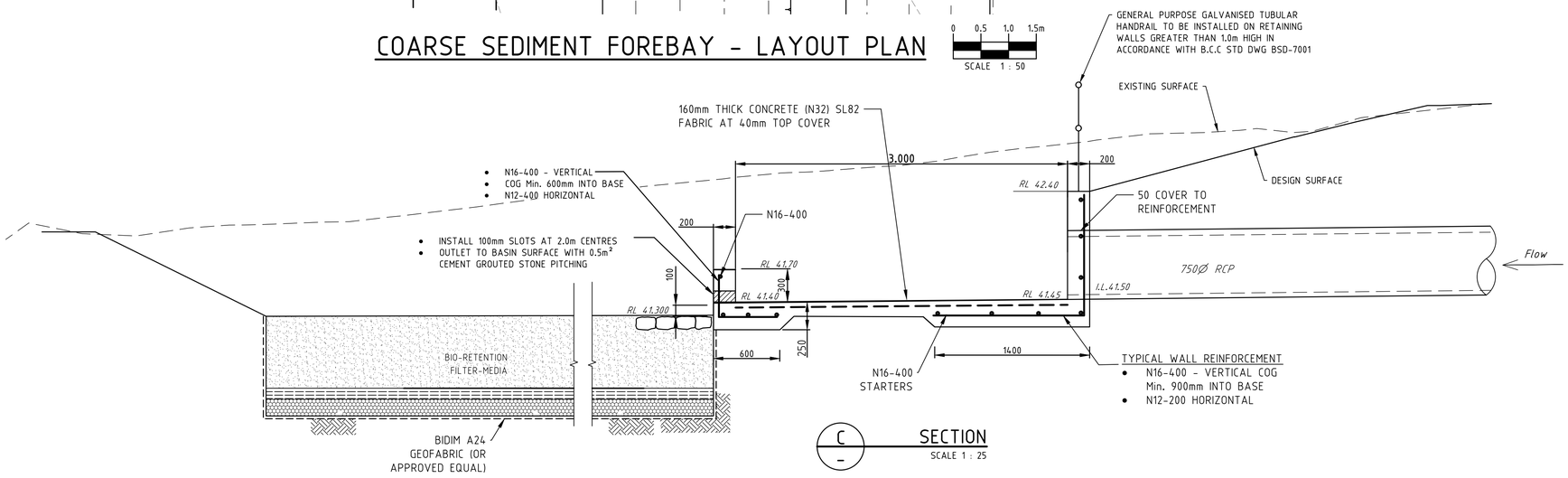
0 0.5 1.0 1.5m
SCALE 1 : 50

NOTES:- COARSE SEDIMENT FOREBAY

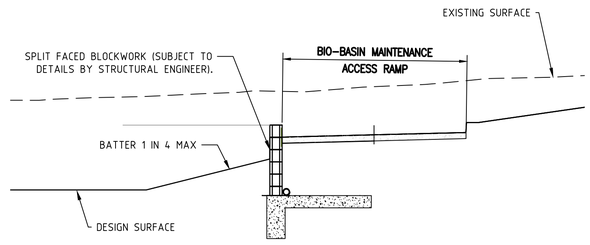
1. SEDIMENT FOREBAYS SHALL BE CONSTRUCTED IN STRICT ACCORDANCE WITH BCC, OR ANY EXTERNAL GUIDELINES OR REFERENCE DOCUMENTATION REFERENCED BY THE COUNCIL.
2. ALL FOREBAY CONSTRUCTION SHALL BE IN ACCORDANCE WITH IPWEA STANDARD DRAWING No. WSUD-005 AND ANY OTHER DOCUMENTATION REFERENCED WITHIN THE IPWEA SPECIFICATIONS.
3. ANY PROPOSED MODIFICATIONS TO THESE DETAILS MUST BE APPROVED BY THE CERTIFYING ENGINEER AND COUNCIL'S INSPECTION OFFICER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL SUBMIT ANY REVISED PROPOSAL IN WRITING TO ENGINEER.

STANDARD BCC ROOFWATER DRAINAGE NOTES

1. ALL ROOFWATER DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH BCC PLANNING SCHEME POLICIES, SCHEDULES AND STANDARD DRAWINGS. THE CONTRACTOR MUST ENSURE THEY ARE FAMILIAR WITH THESE REQUIRMENTS.
2. WHERE ROOFWATER DRAINLINES ARE PROPOSED TO CONNECT TO THE KERB AND CHANNEL, THE CROSSING OF THE VERGE SHALL BE MADE USING GALVANISED STEEL RECTANGULAR SECTIONS (RHS) OF 100mm MAXIMUM HEIGHT OR EQUIVALENT uPVC CLASS 'SEH' PIPES COMPACTED ON COMPACTED SAND BEDDING. WHERE MORE THAN ONE SUCH RHS IS REQUIRED, EACH SHALL BE PLACED NOT LESS THAN 25mm APART AND WELDED TOGETHER, USING A STEEL SPACER BETWEEN THE SECTIONS. THE WHOLE ITEM SHALL BE GALVANISED AFTER FABRICATION.
3. WHERE ROOFWATER DRAINLINES ARE DESIGNED TO DISCHARGE TO THE KERB AND CHANNEL INVERT, THE LAST ROOFWATER PIT PRIOR TO THE VERGE MAY BE LOCATED ON AN ALIGNMENT OF BETWEEN 0.5 METRES FROM THE FRONT PROPERTY BOUNDARY. IN THIS INSTANCE THE ROOFWATER DRAINLINE BETWEEN THE PIT AND THE KERB AND CHANNEL SHALL BE LOCATED PARALLEL TO THE SIDE PROPERTY BOUNDARY, UNLESS NOTED OTHERWISE.
4. ALL ROOFWATER DRAINLINES SHALL BE CONSTRUCTED USING EITHER:
   - uPVC SEWER PIPE MINIMUM CLASS SN8, OR EQUIVALENT uPVC DRAINAGE PIPE;
   - uPVC DRAINAGE PIPE PLASCOR OR EQUIVALENT, RUBBER RING JOINTED PIPE, OF EQUIVALENT CLASS TO uPVC SEWER CLASS SN8;
   - REINFORCED CONCRETE PIPE CLASS '2'; OR
   - FRC PIPE CLASS '2'.
5. ALL ROOFWATER DRAINLINE SHALL BE PROVIDED WITH MINIMUM COVER OF 500mm, EXCEPTING IN THE INSTANCE WHERE ROOFWATER DRAINLINES CROSS THE VERGE AND DISCHARGE TO THE KERB AND CHANNEL INVERT.
6. ROOFWATER DRAINLINES SHALL BE LOCATED ON A 0.5m ALIGNMENT FROM ALL SIDE AND REAR BOUNDARIES, UNLESS SPECIFICALLY NOTED OTHERWISE.
7. THE MAXIMUM ROOFWATER DRAINLINE SIZE SHALL BE 225mm, UNLESS SPECIFICALLY NOTED OTHERWISE.
8. WHERE ROOFWATER DRAINLINES ARE PROPOSED TO CONNECT DIRECTLY TO THE STORMWATER DRAINAGE SYSTEM, CONNECTIONS SHALL BE MADE TO EITHER:
   - A GULLY BOX; OR
   - TO A STORMWATER MANHOLE
9. ROOFWATER DRAINLINE SHALL NOT CONNECT DIRECTLY TO STORMWATER DRAINLINES.
10. WHERE ROOFWATER CONNECTIONS ARE FROM DRAINAGE STRUCTURES, THE CONNECTION SHALL BE CONSTRUCTED OF 100mm DIAMETER uPVC CLASS SN8 (OR EQUIVALENT), LAID AT BETWEEN 1.0% (MIN.) TO 3.0% (MAX.). THE CONNECTION SHALL BE PROVIDED WITH MINIMUM OF 600mm COVER AND SHALL EXTEND A MINIMUM OF 1000mm INTO THE ALLOTMENT THAT IS PROPOSED TO SERVICE.
11. ROOFWATER CONNECTION POINTS SHALL BE PROVIDE TO EACH ALLOTMENT. IN THIS INSTANCES WHERE A ROOFWATER CONNECTION POINT HAS NOT BEEN PROVIDED FROM A ROOFWATER DRAINLINE, PROVISION SHALL BE MADE FOR THE KERB ADAPTORS TO BE PROVIDE WITHIN THE KERB AND CHANNEL. THE KERB ADAPTORS SHALL BE INSTALLED GENERALLY 0.5m FROM THE LOWER PROPERTY BOUNDARY. WHERE AN ALLOTMENT IS PROPOSED TO BE SERVICED BY A ROOFWATER CONNECTION POINT, THE CONTRACTOR SHALL ENSURE THAT THE MID BLOCK LEVEL IS 600mm ABOVE THE LOWEST POINT OF THE KERB AND CHANNEL INVERT, FRONTING THE ALLOTMENT, AND THE ENTIRE ALLOTMENT GRADES TOWARDS THE KERB AND CHANNEL. KERB ADAPTORS SHALL NOT BE LOCATED WITHIN A DISTANCE OF 2.0m UPSTREAM OF A GULLY INLET, SHOULD THIS SITUATION ARISE, A CONNECTION POINT SHALL BE PROVIDED FROM THE GULLY BOX TO SERVICE THE LOT IN QUESTION.



C — SECTION
SCALE 1 : 25



X — SECTION
SCALE 1 : 50

TYPICAL DETAILS - COARSE SEDIMENT FOREBAY

Associated Consultants:
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R.P.D.
Lot 1 & 2 on RP156431

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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: COARSE SEDIMENT FOREBAY LAYOUT, DRAINAGE NOTES & DETAILS

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
Designer: H.W.
Scale: AS SHOWN
Checked: D.L.
Approved: A.PEZZUTTI
RPEQ No: 6382
MAY '23

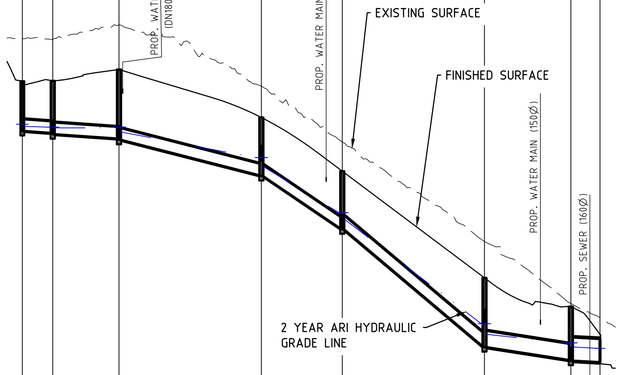
Sheet Size: A1
Drawing No. B20067-C202
G | B | C | D | E | F

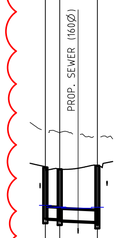
STRUCTURE NAME	G1/1	M2/1	M3/1	M4/1	M6/1	M7/1	M8/1	OUT/1	G1/1A	M2/1	G1/1B	M4/1	G1/2	G2/2	M3/1	G2/2A	G2/2	G1/3	M2/3	M6/1	G1/3A	M2/3	G1/4A	M4/1
STRUCTURE DESCRIPTION	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	OUTLET TO FOREBAY 1200mm DIA REFER BCC STD DRG BSD-8021 (REFER DWG NO. C201-C202)	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021
PIPE SIZE (mm)		375	375	375	375	450	525	750		375		375		375	375	375			375	375		375		375
PIPE CLASS		PP	PP	PP	PP	PP	PP	PP		PP		PP		PP	PP	PP			PP	PP		PP		PP
PIPE GRADE (%)		0.66%	0.66%	2.50%	6.51%	8.24%	1.50%	0.50%		1.00%		2.00%		1.70%	5.50%	1.50%			0.40%	0.40%		0.40%		2.00%
PIPE SLOPE (1 in X)		151.52	151.52	40.00	15.36	12.14	66.67	200.00		100.00		50.00		58.82	18.18	66.67			250.00	250.00		250.00		50.00
FULL PIPE VELOCITY (m/s)		0.37	0.40	1.08	1.64	1.43	1.74	1.17		0.05		0.37		0.14	0.68	0.53			0.35	0.48		0.13		0.37
PART FULL VELOCITY (m/s)		1.12	1.14	2.42	3.84	4.41	2.65	1.90		0.71		1.66		1.19	2.84	1.66			0.91	0.99		0.69		1.66
DATUM RL	33.0								37.0		36.0		37.0			38.0		34.0			34.0		36.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	49.261	49.192 49.163 49.166	49.143 49.141 49.171	49.012 48.141 48.174	47.887 46.340 46.375	46.172 42.710 42.751	42.406 42.108 42.120	41.991 41.944 41.944	41.944	49.164 49.163 49.166	49.143	48.354 48.287 48.203 48.174	47.887	50.328 50.320 49.923 49.930	49.867 49.141 49.171	49.012	50.138 49.998 49.923 49.930	49.867	46.439 46.378 46.376 46.380	46.351 46.340 46.375	46.172	46.384 46.376 46.336 46.380	46.351	48.511 48.442 48.254 48.174	47.887
PIPE FLOW (Cumecs)		0.041	0.045	0.119	0.181	0.228	0.378	0.517		0.005		0.041		0.016	0.075	0.059			0.039	0.053		0.014		0.041	
PIPE CAPACITY AT GRADE (Cumecs)		0.142	0.142	0.277	0.448	0.819	0.527	0.791		0.175		0.248		0.229	0.411	0.215			0.111	0.111		0.111		0.248	
DEPTH TO INVERT	1.621	1.698	1.738	2.251	2.291	1.886	1.906	1.874	1.894	2.238	2.258	1.740	1.760	0.900	0.900		1.624	1.698	1.738		1.428	1.381	1.906		1.656	1.730	1.750	2.251	2.291		1.691	1.710	1.750		1.673	1.631	1.671	1.834	1.894		1.692	1.651	1.671		1.535	1.331	1.906
INVERT LEVEL OF DRAIN	49.046	48.980	48.940	48.797	48.757	47.595	47.575	45.856	45.836	42.011	41.991	41.568	41.548	41.500	41.500		49.030	48.980	48.940		48.142	48.100	47.575		50.231	49.687	49.667	48.797	48.757		49.823	49.707	49.667		46.004	45.985	45.945	45.896	45.836		45.978	45.965	45.945		48.295	48.350	47.575
DESIGN SURFACE LEVEL	50.667	50.678	51.049	49.481	47.730	44.248	43.308	42.400									50.654	50.678			49.569	49.481			51.887	51.417	51.049				51.513	51.417			47.671	47.616	47.730				47.670	47.616			49.830	49.481	
SETOUT COORDINATES	E 793.941 N 5984.675	E 785.465 N 5989.847	E 786.501 N 6011.450	E 740.610 N 6018.828	E 714.533 N 6023.021	E 668.689 N 6030.392	E 640.570 N 6032.600	E 631.254 N 6030.684									E 780.752 N 5988.153	E 785.465 N 5989.847			E 741.458 N 6016.932	E 740.610 N 6018.828			E 794.863 N 6058.546	E 789.776 N 6026.910	E 786.501 N 6011.450				E 797.503 N 6027.304	E 789.776 N 6026.910			E 720.703 N 6037.218	E 716.483 N 6035.148	E 714.533 N 6023.021				E 715.199 N 6038.104	E 716.483 N 6035.148			E 747.293 N 6021.640	E 740.610 N 6018.828	
CHAINAGE	-8.443	9.929 1.486	21.627 23.114	46.481 69.595	26.411 96.006	46.433 142.439	28.205 170.644	9.511 180.156									0.000	5.008 5.008			0.000	2.077 2.077			0.000	32.043 32.043	15.803 47.846				0.000	7.737 7.737			-4.429	4.700 0.271	12.283 12.554				0.000	3.223 3.223			0.000	7.251 7.251	
LINE	LINE 1								LINE 1A		LINE 1B		LINE 2			LINE 2A		LINE 3			LINE 3A		LINE 4A	

G

NOTES:
- ALL STORMWATER PIPELINES SHALL BE INSTALLED WITH TYPE "HS2" EMBEDMENT IN ACCORDANCE WITH AS 3725.
- ALL STORMWATER STRUCTURE COVERS SHALL BE CLASS 'D' TRAFFICABLE U.N.O.
- PIPE CLASS NOMINATED ON LONGITUDINAL SECTIONS ARE AS FOLLOWS;
  - U = uPVC CLASS "SN8"
  - 2 = RCP CLASS '2'
  - 3 = RCP CLASS '3'
  - 4 = RCP CLASS '4'

SCALES:-
VERT. 1 : 100 (0 1 2 3m)
HORIZ. 1 : 1000 (0 10 20 30m)





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Associated Consultants:
SURVEYOR:
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R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	AMENDED TO SUIT WORKS CONSTRUCTED BY OTHERS	
E	28.10.25	S.G.	ISSUE FOR TENDER	
D	4.09.23	M.B.	ISSUE FOR TENDER	
C	18.07.23	M.Y.B.	RFI RESPONSE	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
G	28.05.26	K.L.	STORMWATER UPDATES	

L+R ENGINEERS MANAGERS SCIENTISTS
LEVEL 3, 120 WICKHAM STREET
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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 1 OF 3

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
Designer: H.W.
Scale: AS SHOWN
Checked: D.L.
Approved: A.PEZZUTTI
RPEQ No: 6382
MAY '23

Sheet Size: A1
Drawing No.: B20067-C203

G | B | C | D | E | F

STRUCTURE NAME	G1/7A	M7/1	G1/7B	M7/1	G1/8A	G2/8B	M8/1	G2/9A	XM2/9	G3/9B	XM3/9	G4/9C	XM4/9	G5/9D	M5/9
STRUCTURE DESCRIPTION	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	SAG LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1050mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1200mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1200mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	ACCESS CHAMBER 1200mm DIA REFER BCC STD DRG BSD-8021	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C REFER BCC STD DRG BSD-8051	1500mm DIA ACCESS CHAMBER REFER IPWEA DWG DS-010
PIPE SIZE (mm)	375		375		375	375		375		375		375		375	
PIPE CLASS	PP		PP		PP	PP		PP		PP		PP		PP	
PIPE GRADE (%)	4.00%		4.00%		2.00%	2.50%		1.00%		1.00%		1.50%		0.40%	
PIPE SLOPE (1 in X)	25.00		25.00		50.00	40.00		100.00		100.00		66.67		250.00	
FULL PIPE VELOCITY (m/s)	0.80		0.70		0.75	1.40		0.33		0.52		0.42		0.40	
PART FULL VELOCITY (m/s)	2.65		2.54		2.02	2.58		1.25		1.42		1.56		0.95	
DATUM RL	30.0		30.0		29.0			37.0		35.0		31.0		29.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	43.529 / 43.254	42.928 / 42.751	42.406	43.301 / 43.075	42.919 / 42.751	42.406	42.575 / 42.354	42.342 / 42.368	42.162	42.108 / 42.126	41.991	50.551 / 50.503	50.499 / 50.510	50.449	
PIPE FLOW (Cumecs)	0.088		0.077		0.083	0.154		0.036		0.057		0.047		0.044	
PIPE CAPACITY AT GRADE (Cumecs)	0.351		0.351		0.248	0.277		0.175		0.175		0.215		0.111	
DEPTH TO INVERT	1.625	1.448	2.258	1.420	1.448	2.258	1.451	1.512	1.532	1.740	1.760	1.394	1.512	1.552	1.494	1.429	1.469	1.402	1.360	1.604	1.378	1.370	1.514
INVERT LEVEL OF DRAIN	43.036	42.800	41.991	42.872	42.800	41.991	41.872	41.763	41.743	41.568	41.548	49.917	49.825	49.785	47.030	46.938	46.898	43.587	43.450	43.206	41.285	41.250	41.106
DESIGN SURFACE LEVEL	44.661	44.248		44.292	44.248		43.324	43.275		43.308		51.311	51.338		48.524	48.367		44.989	44.810		42.663	42.620	
SETOUT COORDINATES	E 673.711 / N 6033.471	E 668.689 / N 6030.392		E 668.897 / N 6028.598	E 668.689 / N 6030.392		E 649.410 / N 6041.323	E 645.093 / N 6037.965		E 640.570 / N 6032.600		E 804.865 / N 5971.635	E 799.806 / N 5963.944		E 730.202 / N 5983.576	E 725.306 / N 5975.873		E 676.890 / N 5992.113	E 671.983 / N 5984.412		E 642.406 / N 5997.634	E 638.930 / N 5989.614	
CHAINAGE	0.000	5.891	5.891	0.000	1.805	1.805	0.000	5.470	5.470	7.017	12.487	0.000	9.206	9.206	0.000	9.128	9.128	0.000	9.132	9.132	0.000	8.741	8.741
LINE	LINE 7A		LINE 7B		LINE 8A			LINE 9A		LINE 9B		LINE 9C		LINE 9D	

G

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  - 4 = RCP CLASS '4'

SCALES:-

VERT. 1 : 100 (0 1 2 3m)

HORIZ. 1 : 1000 (0 10 20 30m)

2 YEAR ARI HYDRAULIC GRADE LINE

2 YEAR ARI HYDRAULIC GRADE LINE

PROP. SEWER (160ØJ)

2 YEAR ARI HYDRAULIC GRADE LINE

10 YEAR ARI HYDRAULIC GRADE LINE

10 YEAR ARI HYDRAULIC GRADE LINE

CONSTRUCT NEW MANHOLE OVER EXISTING STORMWATER LINE IN PRIESTDALE ROAD

NOTE:- STORMWATER IN PRIESTDALE ROAD

- STORMWATER STRUCTURES XF1/9, XM2/9, XM3/9, XM4/6, & XM6/9 AND CONNECTING DRAINLINE WERE CONSTRUCTED BY ADJACENT DEVELOPER UNDER BCC OPERATIONAL WORKS REF A006624888 AND ARE EXISTING.

BCC DS
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29-MAY-2026
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Associated Consultants:
SURVEYOR:
WOLTER CONSULTING PTY LTD
PHONE 07 3666 5200

R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

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B	02.02.23	H.W.	REVISED SEWER CONNECTION	
G	28.05.26	K.L.	STORMWATER UPDATES	

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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 2 OF 3

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
Designer: H.W.
Scale: AS SHOWN
Checked: D.L.
Approved: A.PEZZUTTI
RPEQ No: 6382
FEB '23

Sheet Size: A1
Drawing No. B20067-C204

G | B | C | D | E | F

STRUCTURE NAME	F1/9E	XM6/9
STRUCTURE DESCRIPTION	900x900 DOME TOP FIELD INLET OVER 1050mm DIA ACCESS CHAMBER REFER BCC STD DRG BSD-8021	EXISTING ACCESS CHAMBER 1800mm DIA REFER BCC STD DRG BSD-8021

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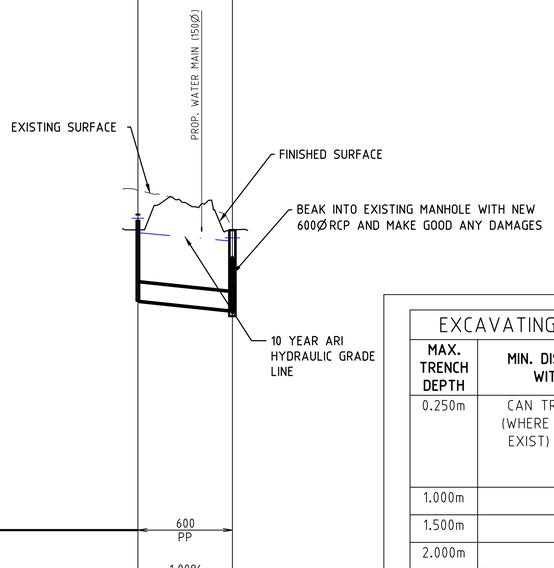
  - 2 = RCP CLASS '2'
  - 3 = RCP CLASS '3'
  - 4 = RCP CLASS '4'

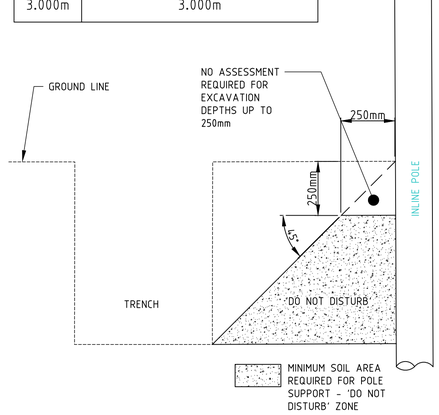
SCALES:-
VERT. 1 : 100 (0 1 2 3m)
HORIZ. 1 : 1000 (0 10 20 30m)



PIPE SIZE (mm)		600	
PIPE CLASS		PP	
PIPE GRADE (%)		1.00%	
PIPE SLOPE (1 in X)		100.00	
FULL PIPE VELOCITY (m/s)		2.02	
PART FULL VELOCITY (m/s)		2.47	
DATUM RL		27.0	
H.G.L IN PIPE & W.S.E IN STRUCTURE	41.680 / 41.205	40.938 / 41.039	40.067
PIPE FLOW (Cumecs)		0.572	
PIPE CAPACITY AT GRADE (Cumecs)		0.614	
DEPTH TO INVERT	2.317		2.616 / 2.656
INVERT LEVEL OF DRAIN	38.983		38.675 / 38.635
DESIGN SURFACE LEVEL	41.300		41.291
SETOUT COORDINATES	E 625.261 / N 6022.290		E 614.157 / N 5993.512
CHAINAGE	0.000	30.845	30.845
LINE		LINE 9E	

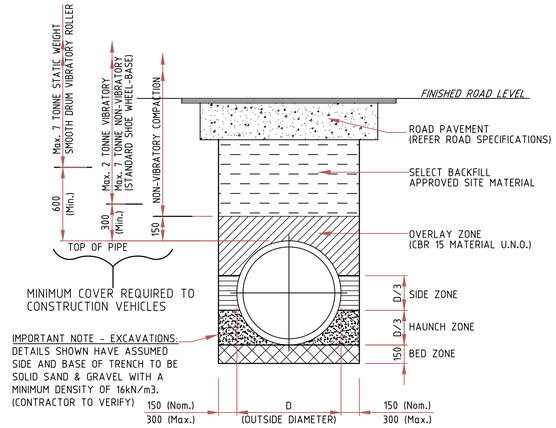
EXCAVATING NEAR POLES

MAX. TRENCH DEPTH	MIN. DISTANCE FROM POLE WITHOUT SUPPORT
0.250m	CAN TRENCH OR HAND DIG (WHERE CABLES AND LEADS EXIST) RIGHT UP TO POLE
1.000m	1.000m
1.500m	1.500m
2.000m	2.000m
2.500m	2.500m
3.000m	3.000m

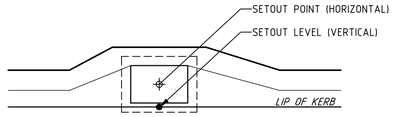


POWER POLE TRENCHING ZONE DETAIL
N.T.S.

('DO NOT DISTURB' ZONE DETAIL)
REFER TO ENERGEX TRENCHING ADJACENT ENERGEX POWER POLES GUIDELINES

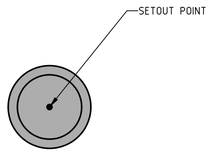


TYPICAL STORMWATER TRENCH DETAIL WITHIN ROADWAY (TYPE "HS2" SUPPORT - SINGLE BARREL)
N.T.S.



GULLY PIT SETOUT LOCATION

SETOUT POINTS LOCATION DETAIL



MANHOLE & ROOFWATER CHAMBER SETOUT LOCATION

STORMWATER DRAINAGE NOTES

1. ALL DRAINAGE MATERIALS, EXCAVATION AND CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE LOCAL AUTHORITY SPECIFICATIONS AND DETAILS AND THE FOLLOWING PUBLICATIONS (AS APPLIES TO THE TYPE OF PIPELINE):-
   - CONCRETE PIPE ASSOCIATION OF AUSTRALIA TECHNICAL ADVISORY PUBLICATIONS
   - AS 3725 "DESIGN FOR THE INSTALLATION OF BURIED CONCRETE PIPES"
   - AS 4058 "PRE-CAST CONCRETE PIPES (PRESSURE AND NON-PRESSURE)
   - AS 4139 "FIBRE REINFORCED CONCRETE PIPES AND FITTINGS"
   - AS 2566 "BURIED FLEXIBLE PIPELINES"
   - AS 3500 "NATIONAL PLUMBING CODE"
   - AS 1254 "PVC PIPES AND FITTINGS FOR STORM & SURFACE WATER APPLICATIONS"
   - AS 1273 "UNPLASTICIZED PVC (uPVC) DOWNPIPE AND FITTINGS FOR RAINWATER
2. WHERE THE DEPTH OF FILL OVER THE PIPE IS BETWEEN Min. 600mm AND Max. 1.5m HIGH:-
   - ALL uPVC PIPES SHALL BE CLASS "SN8" FOR 150Ø - 225Ø AND "SN6" FOR 100Ø
   - ALL CONCRETE PIPES SHALL BE MINIMUM CLASS "2"

   SHOULD THE DEPTH OF COVER OVER THE PIPE BE OUTSIDE THE ABOVE MAXIMUM AND MINIMUM LIMITS, OR ANY LOADING OTHER THAN NORMAL EARTH LOADS BE APPLICABLE (INCLUDING CONSTRUCTION TRAFFIC LOADS) THE DESIGN ENGINEER MUST BE CONTACTED FOR SPECIFIC DESIGN OF PIPE CLASS.
3. UNLESS DETAILED OTHERWISE PIPE CLASSES SPECIFIED ON PROJECT DRAWINGS ARE BASED ON SINGLE PIPE BARREL ONLY - WHERE MULTIPLE PIPE BARRELS ARE PROPOSED THE PIPE CLASS MUST BE REFERRED TO THE DESIGN ENGINEER FOR CONFIRMATION.
4. UNLESS SPECIFIED OTHERWISE DESIGN LOADING ON ALL PIPELINES REQUIRE "TRENCH" TYPE BEDDING AND BACKFILL INSTALLATION IN ACCORDANCE WITH AS 3725. "EMBANKMENT" TYPE INSTALLATION WILL NOT BE ACCEPTED WITHOUT WRITTEN APPROVAL. STABILITY OF TRENCH BASE AND SIDES MUST BE ADEQUATE TO PROVIDE REQUIRED SUPPORT TO THE BEDDING, HAUNCH AND SIDES OF THE TRENCH - IF ANY DOUBT EXISTS THE CONTRACTOR MUST OBTAIN GEOTECHNICAL CONSULTANT CONFIRMATION.
5. THE WIDTH OF TRENCH OUTSIDE THE PIPE SHALL BE IN ACCORDANCE WITH AS 3725 (NOMINAL 300mm Max.). ANY FURTHER WIDENING OF THE TRENCH WILL INCREASE LOAD ONTO PIPE, AND WILL REQUIRE REVIEW OF PIPE CLASS AND INSTALLATION SPECIFICATIONS. ANY ADDITIONAL ASSOCIATED PIPE OR SUPPORT COSTS WILL BE AT CONTRACTOR'S EXPENSE.
6. UNLESS SPECIFIED OTHERWISE PIPE BEDDING AND SUPPORT SHALL BE INSTALLED IN ACCORDANCE WITH AS 3725 AND SHALL BE GENERALLY AS FOLLOWS:-
   - "HS2" UNDER ROADWAYS
   - "H2" UNDER NON-TRAFFIC / NON-LOADED AREAS

   ANY CIRCUMSTANCES OUTSIDE THESE MUST BE REFERRED TO THE DESIGN ENGINEER FOR PIPE SUPPORT SPECIFICATIONS.
7. THE CONTRACTOR SHALL ENSURE THAT ALL CONSTRUCTION TRAFFIC LOADING ONTO PIPELINES IS LIMITED TO MAXIMUM VEHICLE LOADINGS AND ACHIEVES BACKFILL COVER IN ACCORDANCE WITH AS 3725 (OR ALTERNATIVELY PROVIDE ADEQUATE TEMPORARY AND PERMANENT BRIDGING). REFER C.P.A.A. PIPE CLASS SELECTION CRITERIA / SOFTWARE FOR ACCEPTABLE LOADING APPLICATIONS.
8. ANY DRAINLINE BEING INSTALLED WITH ANY PORTION OF THE DRAINLINE BELOW THE MAXIMUM TIDAL LEVEL SHALL HAVE SALTWATER EXPOSURE COVER CLASS PIPES OR CULVERTS INSTALLED. FOR ANY DEVELOPMENT WITHIN 1 KILOMETRE OF THE COASTLINE, OR WITH PIPEWORK THE HIGHEST ASTRONAMICAL TIDE (H.A.T.) THE CONTRACTOR MUST VERIFY THIS REQUIREMENT WITH THE SUPERVISING ENGINEER.
9. WHERE DRAINLINES ARE TO BE INSTALLED IN "AGGRESSIVE" PERMEABLE SOILS AS DEFINED IN AS 3600, OR ACID SULPHATE SOILS (pH <4.0) THEY MUST BE REFERRED TO THE SUPERVISING ENGINEER FOR REVIEW OF PIPE / EXPOSURE COVER CLASS. THE CONTRACTOR SHALL VERIFY SOIL CONDITION (BY TESTING) AND UNDERTAKE SOIL REMEDIATION TREATMENT (WHERE REQUIRED) PRIOR TO DRAINLINE CONSTRUCTION.
10. MINIMUM AND MAXIMUM PIPE GRADES SHALL BE IN ACCORDANCE WITH Q.U.D.M. SPECIFICATIONS. (N.B. 150Ø=1% Min. AND 375Ø=0.4% Min.)
11. ANY PIPE DOWNSTREAM OF INLETS CAPTURING GROUND RUNOFF SHALL BE Min. 150Ø.
12. WHERE PIPES AND STRUCTURES ARE TO BE LAID WITHIN THE ZONE OF INFLUENCE OF STRUCTURAL ELEMENTS (e.g. BUILDING FOOTINGS, RETAINING WALLS . . . etc.) THE BUILDER SHALL PROVIDE ADEQUATE BRIDGING / PROTECTION TO ENSURE NO UNDUE LOADING ONTO STORMWATER PIPES AND STRUCTURES. WHERE ANY DOUBT MAY EXIST REFERENCE SHALL BE MADE TO THE DESIGNER OF THE STRUCTURE AND THE STORMWATER DESIGN ENGINEER.
13. CONTRACTOR MUST VERIFY THAT ALL PIPE LEVELS AND GRADES CAN BE ACHIEVED PRIOR TO CONSTRUCTING DRAINLINES. ANY CONFLICT SHALL BE REFERRED TO THE SUPERINTENDENT FOR RE-DESIGN PRIOR TO ANY PIPELINE CONSTRUCTION.
14. BENCHING OF PIT STRUCTURES SHALL HAVE A SMOOTH FINISHED SURFACE, AND PIPES SHALL NOT PROJECT INSIDE THE SHAFT OF THE PIT.
15. WHERE RECTANGULAR PITS OR STRUCTURES ARE CONSTRUCTED, PIPES MUST NOT CONNECT INTO THE STRUCTURE AT CORNERS.
16. ALL CONSTRUCTION AND EXCAVATIONS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT WORKPLACE HEALTH AND SAFETY ACT INCLUDING AMENDMENTS SUBSEQUENT TO THE ORIGINAL PUBLICATION.
17. BASE AND SHAFT OF ALL STORMWATER STRUCTURES SHALL BE "CAST IN-SITU" CONCRETE UNLESS OTHERWISE APPROVED IN WRITING BY THE SUPERVISING ENGINEER.
18. ALL GRATED INLETS SHALL BE MINIMUM "CLASS D" TRAFFICABLE, AND SHALL BE BOLTED DOWN UNLESS OTHERWISE APPROVED BY THE SUPERVISING ENGINEER.
19. WHERE A BRANCH CONNECTION IS INDICATED DIRECTLY ONTO THE RECEIVING PIPELINE (I.E. WITHOUT JUNCTION PIT) - A PROPRIETORY OBLIQUE BRANCH FITTING SHALL BE INSTALLED ONTO RECEIVING PIPELINE SIZE UP TO 300MM, OR APPROVED SADDLE BRANCH INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURER SPECIFICATIONS FOR PIPES FOR RECEIVING PIPELINE SIZE 375MM OR GREATER. THE MAXIMUM SIZE OF THE CONNECTING BRANCH LINE (WITHOUT JUNCTION PIT) SHALL BE 150MM U.N.O.
20. ALL PIPED OUTLETS AND INLETS MUST BE PROVIDED WITH CEMENT GROUTED STONE PITCHING SCOUR PROTECTION IN ACCORDANCE WITH IPWEA STANDARD DRAWING NUMBER D-0081. ALL VOIDS BETWEEN STONES MUST BE CEMENT GROUTED - NO SHALL NOT BE LOOSE STACKED. ALL STONE PITCHING SHALL BE PLACED OVER GEOFABRIC - BIDIM A24 OR EQUIVALENT.

Associated Consultants:
SURVEYOR:
WOLTER CONSULTING PTY LTD
PHONE 07 3666 5200

R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	AMENDED TO SUIT WORKS CONSTRUCTED BY OTHERS	
E	28.10.25	S.G.	ISSUE FOR TENDER	
D	4.09.23	M.B.	ISSUE FOR TENDER	
C	18.07.23	M.Y.B.	RFI RESPONSE	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
G	28.05.26	K.L.	STORMWATER UPDATES	

L+R ENGINEERS MANAGERS SCIENTISTS
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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER DRAINAGE LONGITUDINAL SECTIONS - SHEET 3 OF 3

Client: *S&J DEVELOPMENT GROUP PTY LTD*

Draftsperson: H.W.	Checked: D.L.	Sheet Size: A1	Drawing No.: B20067-C205
Designer: H.W.	Approved: A.PEZZUTTI RPEQ No: 6382		
Scale: AS SHOWN	MAY '23	G	B C D E F

G

	LOCATION			SUB-CATCHMENT RUNOFF									INLET DESIGN					DRAIN DESIGN																		PART FULL		DESIGN LEVELS								
					Tc	I	C10	C	A	CxA	Q					Qg	Qb	dV	tc	I	+CA	Qt	Qs	Qa	Qp	L	S		V	Qcap			V2/2g	Ku	hu	Kw	hw	Sf	hf		Vp								
DESIGN AEP	STRUCTURE No	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	SLOPE OF CATCHMENT	SUB-CATCHMENT TIME OF CONC.	RAINFALL INTENSITY	10yr RUNOFF CO-EFFICIENT	COEFFICIENT OF RUNOFF	SUB-CATCHMENT AREA	EQUIVALENT AREA	SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	MINOR FLOW WIDTH	INLET TYPE	FLOW INTO INLET	BYPASS FLOW	FLOW DEPTH x VELOCITY	CRITICAL TIME OF CONC.	RAINFALL INTENSITY	TOTAL (C x A)	MAJOR TOTAL FLOW	MAJOR ROAD FLOW CAPACITY	ADDITIONAL PIPE FLOW	PIPE FLOW	REACH LENGTH	PIPE GRADE	PIPE / BOX DIMENSIONS (CLASS)	FLOW VELOCITY FULL (PIPE GRADE/ VELOCITY)	PIPE FLOW CAPACITY AT GRADE	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	VELOCITY HEAD	US HEAD LOSS COEFFICIENT	US HEAD LOSS	W.S.E COEFFICIENT	CHANGE IN W.S.E	PIPE FRICTION SLOPE	PIPE FRICTION HEADLOSS (L x Sf)	DEPTH	VELOCITY	OBVERT LEVELS	DRAIN SECTION H.G.L	UPSTREAM H.G.L	LAT - H.G.L	W.S.E	SURFACE OR K&C INVERT LEVEL	FREEBOARD	STRUCTURE No / LINK STRUCTURE
				%	min	mm/h			ha	ha	l/s	l/s	%	m		l/s	l/s	m³/s	min	mm/h	ha	l/s	l/s	l/s	l/s	m	%	mm	m/s	l/s			m		m		m	%	m	m	m/s	m	m	m		m	m	
39% 2%	G1/1	M2/1			13.0	104.0 206.0	0.88	0.64 0.84	0.224	0.143 0.188	41.2 107.4	41.2 107.4	0.36		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	41.2 107.4	0.0 0.0		13.00	104.0 206.0	0.143 0.188	0.0 0.0	68.8 34.4	0.0 0.0	41.2 107.4	9.93	0.66	375(2)	0.37 0.97 (1.29)	142.5	G2	Ku = 9.70	0.007 0.006	9.70 2.55	0.069 0.014		0.069 0.014	0.29 0.04	0.053 0.004	0.138 0.243	1.12 1.42	49.421	49.1924	49.261 50.667		49.261 50.667	50.667	1.407 0.000	G1/1
39% 2%	M2/1	M3/1	G1/1A; G1/1										0.96		ACCESS CHAMBER 1050mm DIA				13.08	103.7 205.4	0.155 0.204			0.0 0.0	44.6 116.2	21.63	0.66	375(2)	0.40 1.05 (1.29)	142.5	T6/T9	Ku = 2.40, Kw = 2.69	0.008 0.024	2.40 1.66	0.020 0.040	2.69 1.90	0.022 0.046	0.01 0.19	0.021 0.041	0.144 0.257	1.14 1.44	49.315	49.1434	49.166 50.654		49.166 50.654	50.678	1.512 0.024	M2/1
39% 2%	M3/1	M4/1	G2/2A; G1/2; G2/2; G1/1A; G1/1										1.00		ACCESS CHAMBER 1050mm DIA				13.20	103.2 204.6	0.416 0.546			0.0 0.0	119.3 310.4	46.48	2.50	375(2)	1.08 2.81 (2.51)	277.3	T9/T10	Ku = 2.17, Kw = 2.68	0.059 0.226	2.17 1.56	0.129 0.354	2.68 1.94	0.160 0.440	1.87 1.76	0.925 0.818	0.172 0.375	2.42 2.81	49.132	49.0131	49.171 50.654		49.171 50.654	51.049	1.877 0.394	M3/1
39% 2%	M4/1	M5/1	G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										4.89		ACCESS CHAMBER 1050mm DIA				5.65	144.5 277.4	0.451 0.591			0.0 0.0	181.0 455.8	26.41	6.51	375(2)	1.64 4.13 (4.05)	447.5	T3/T6	Ku = 1.86, Kw = 2.10	0.137 0.733	1.86 1.23	0.255 0.905	2.10 1.35	0.287 0.990	5.86 5.70	1.583 1.504	0.166 0.314	3.84 4.61	47.95	47.8886	48.174 49.481		48.174 49.481	49.481	1.307 0.000	M4/1
39% 2%	M6/1	M6/1	G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										7.50		ACCESS CHAMBER 1050mm DIA				5.80	143.0 276.1	0.574 0.749			0.0 0.0	228.1 574.7	46.43	8.24	450(2)	1.43 3.61 (5.15)	818.7	T1/T3	Ku = 1.60, Kw = 1.93	0.105 0.666	1.60 1.06	0.168 0.709	1.93 1.27	0.203 0.848	7.46 4.48	3.521 2.088	0.162 0.278	4.41 5.57	46.286	46.1734	46.375 47.126		46.375 47.126	47.730	1.355 0.604	M6/1
39% 2%	M7/1	M7/1	G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										7.50		ACCESS CHAMBER 1050mm DIA				5.67	144.3 279.3	0.942 1.222			0.0 0.0	377.7 948.2	28.21	1.50	525(2)	1.74 4.38 (2.43)	526.9	T3/T6	Ku = 1.95, Kw = 2.22	0.155 0.628	1.95 1.32	0.304 0.826	2.22 1.40	0.345 0.878	1.06 3.11	0.358 0.878	0.329 0.525	2.65 4.38	42.516	42.4077	42.751 44.248		42.751 44.248	44.248	1.497 0.000	M7/1
39% 2%	M8/1	OUT/1	G1/8A; G2/8B; G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										1.00		ACCESS CHAMBER 1050mm DIA				5.76	143.4 276.2	1.299 1.696			0.0 0.0	517.5 1,301.1	9.51	0.50	750(2)	1.17 2.95 (1.79)	790.6	T3	Ku = 1.67, Kw = 1.93	0.070 0.163	1.67 1.67	0.117 0.272	1.93 1.92	0.135 0.314	0.50 0.41	0.048 0.042	0.444 0.750	1.90 2.95	42.298	41.9922	42.126 42.534		42.126 42.534	43.308	1.182 0.774	M8/1
39% 2%	OUT/1		G1/8A; G2/8B; G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										1.00		OUTLET STRUCTURE																Ku = 0.00													41.944 42.181		41.944 42.181	42.250		OUT/1
39% 2%	G1/1A	M2/1			5.0	151.0 290.0	0.88	0.76 0.98	0.016	0.012 0.016	5.2 12.9	5.2 12.9	0.44		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	5.2 12.9	0.0 0.0		5.00	151.0 290.0	0.012 0.016	0.0 0.0	40.0 20.0	0.0 0.0	5.2 12.9	5.01	1.00	375(2)	0.05 0.12 (1.59)	175.4	G2	Ku = 9.70	0.000 0.001	9.70 2.55	0.001 0.002		0.001 0.002	-0.01 0.01	0.000 0.000	0.044 0.069	0.71 0.93	49.405	49.163	49.164 50.650		49.164 50.650	50.654	1.490 0.004	G1/1A
39% 2%	M2/1		G1/1A; G1/1										0.96		ACCESS CHAMBER 1050mm DIA															T6/T9	Ku = 2.40, Kw = 2.69		2.40 1.66	0.020 0.040	2.69 1.90	0.022 0.046							49.166 50.654		49.166 50.654	50.678	1.512 0.024	M2/1
39% 2%	G1/1B	M4/1			5.0	151.0 290.0	0.88	0.76 0.98	0.128	0.097 0.126	40.7 101.2	40.7 101.2	4.75	5.3	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	40.7 101.2	0.0 0.0	0.050 0.078	5.00	151.0 290.0	0.097 0.126	0.0 0.0	3,873.1 3,873.1	0.0 0.0	40.7 101.2	2.08	2.00	375(2)	0.37 0.92 (2.25)	248.1	G2	Ku = 9.70	0.007 0.043	9.70 3.03	0.067 0.130		0.067 0.130	4.05 0.33	0.000 0.007	0.103 0.167	1.66 2.13	48.517	48.2874	48.354 49.533		48.354 49.533	49.569	1.215 0.036	G1/1B
39% 2%	M4/1		G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										4.89		ACCESS CHAMBER 1050mm DIA															T3/T6	Ku = 1.86, Kw = 2.10		1.86 1.23	0.255 0.905	2.10 1.35	0.287 0.990							48.174 49.481		48.174 49.481	49.481	1.307 0.000	M4/1
39% 2%	G1/2	G2/2			5.0	151.0 290.0	0.88	0.76 0.98	0.050	0.038 0.049	15.8 39.3	15.8 39.3	1.50	1.4	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	15.8 39.3	0.0 0.0	0.032 0.051	5.00	151.0 290.0	0.038 0.049	0.0 0.0	183.0 183.0	0.0 0.0	15.8 39.3	32.04	1.70	375(2)	0.14 0.36 (2.07)	228.7	G1	Ku = 7.00	0.001 0.006	7.00 4.27	0.007 0.028		0.007 0.028	1.24 0.05	0.426 0.016	0.067 0.105	1.19 1.55	50.606	50.3201	50.328 51.076		50.328 51.076	51.887	1.559 0.811	G1/2
39% 2%	G2/2	M3/1	G2/2A; G1/2		5.0	151.0 290.0	0.88	0.76 0.98	0.027	0.021 0.027	8.7 21.7	8.7 21.7	1.50	1.1	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	8.7 21.7	0.0 0.0	0.024 0.038	13.06	103.7 205.5	0.262 0.343	0.0 0.0	183.0 183.0	0.0 0.0	75.4 195.9	15.80	5.50	375(2)	0.68 1.77 (3.72)	411.4	T6/T9	Ku = 2.36, Kw = 2.67	0.024 0.161	2.36 1.66	0.056 0.267	2.67 1.84	0.063 0.295	4.60 1.25	0.781 0.197	0.109 0.182	2.84 3.68	50.042	49.8677	49.930 51.060		49.930 51.060	51.417	1.486 0.356	G2/2
39% 2%	M3/1		G2/2A; G1/2; G2/2; G1/1A; G1/1										1.00		ACCESS CHAMBER 1050mm DIA															T9/T10	Ku = 2.17, Kw = 2.68		2.17 1.56	0.129 0.354	2.68 1.94	0.160 0.440							49.171 50.654		49.171 50.654	51.049	1.877 0.394	M3/1
39% 2%	G2/2A	G2/2			13.0	104.0 206.0	0.88	0.64 0.84	0.319	0.203 0.267	58.7 153.1	58.7 153.1	1.50	2.4	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	58.7 153.1	0.0 0.0	0.061 0.104	13.00	104.0 206.0	0.203 0.267	0.0 0.0	171.0 171.0	0.0 0.0	58.7 153.1	7.74	1.50	375(2)	0.53 1.39 (1.95)	214.8	G2	Ku = 9.70	0.014 0.098	9.70 2.68	0.140 0.262		0.140 0.262	0.97 0.76	0.103 0.059	0.134 0.234	1.66 2.11	50.198	49.9985	50.138 51.354		50.138 51.354	51.513	1.375 0.160	G2/2A
39% 2%	G2/2		G2/2A; G1/2		5.0	151.0 290.0	0.88	0.76 0.98	0.027	0.021 0.027	8.7 21.7	8.7 21.7	1.50	1.1	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	8.7 21.7	0.0 0.0	0.024 0.038				0.0 0.0	183.0 183.0								T6/T9	Ku = 2.36, Kw = 2.67		2.36 1.66	0.056 0.267	2.67 1.84	0.063 0.295							49.930 51.060		49.930 51.060	51.417	1.486 0.356	G2/2
39% 2%	G1/3	M2/3			5.0	151.0 290.0	0.88	0.76 0.98	0.122	0.092 0.119	38.7 96.1	38.7 96.1	1.01		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	38.7 96.1	0.0 0.0		5.00	151.0 290.0	0.092 0.119	0.0 0.0	40.0 20.0	0.0 0.0	38.7 96.1	4.70	0.40	375(2)	0.35 0.87 (1.00)	110.9	G2	Ku = 9.70	0.006 0.039	9.70 3.27	0.061 0.127		0.061 0.127	0.04 0.30	0.002 0.014	0.153 0.270	0.91 1.13	46.379	46.3784	46.439 47.311		46.439 47.311	47.677	1.239 0.366	G1/3
39% 2%	M2/3	M6/1	G1/3A; G1/3										0.71		ACCESS CHAMBER 1050mm DIA				5.04	150.6 289.4	0.126 0.163			0.0 0.0	52.7 131.0	12.28	0.40	375(2)	0.48 1.19 (1.00)	110.9	T6/T9	Ku = 2.15, Kw = 2.46	0.012 0.072	2.15 1.60	0.025 0.115	2.46 1.68	0.029 0.120	0.09 0.56	0.011 0.068	0.182 0.375	0.99 1.19	46.32	46.3515	46.380 47.176		46.380 47.176	47.616	1.236 0.440	M2/3
39% 2%	M6/1		G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										7.50		ACCESS CHAMBER 1050mm DIA															T1/T3	Ku = 1.60, Kw = 1.93		1.60 1.06	0.168 0.709	1.93 1.27	0.203 0.848							46.375 47.126		46.375 47.126	47.730	1.355 0.604	M6/1
39% 2%	G1/3A	M2/3			5.0	151.0 290.0	0.88	0.76 0.98	0.044	0.034 0.044	14.1 35.1	14.1 35.1	1.03		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	14.1 35.1	0.0 0.0		5.00	151.0 290.0	0.034 0.044	0.0 0.0	40.0 20.0	0.0 0.0	14.1 35.1	3.22	0.40	375(2)	0.13 0.32 (1.00)	110.9	G2	Ku = 9.70	0.001 0.005	9.70 3.55	0.008 0.018		0.008 0.018	0.01 0.04	0.000 0.001	0.090 0.145	0.69 0.89	46.353	46.3761	46.384 47.190		46.384 47.190	47.670	1.285 0.479	G1/3A
39% 2%	M2/3		G1/3A; G1/3										0.71		ACCESS CHAMBER 1050mm DIA															T6/T9	Ku = 2.15, Kw = 2.46		2.15 1.60	0.025 0.115	2.46 1.68	0.029 0.120							46.380 47.176		46.380 47.176	47.616	1.236 0.440	M2/3
39% 2%	G1/4A	M4/1			5.0	151.0 290.0	0.88	0.76 0.98	0.130	0.099 0.128	41.4 102.8	41.4 102.8	4.11	5.3	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	41.4 102.8	0.0 0.0	0.048 0.076	5.00	151.0 290.0	0.099 0.128	0.0 0.0	3,608.9 3,608.9	0.0 0.0	41.4 102.8	7.25	2.00	375(2)	0.37 0.93 (2.25)	248.1	G2	Ku = 9.70	0.007 0.044	9.70 3.37	0.069 0.149		0.069 0.149	2.59 0.34	0.101 0.025	0.104 0.168	1.66 2.14	48.67	48.4424	48.511 49.570		48.511 49.570	49.830	1.319 0.260	G1/4A

STORMWATER CALCULATION TABLE - SHEET 1 OF 2

Associated Consultants:
SURVEYOR:
WOLTER CONSULTING PTY LTD
PHONE 07 3666 5200

R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	AMEND	
E	28.10.25	S.G.	ISSUE	
D	4.09.23	M.B.	ISSUE	
C	18.07.23	M.Y.B.	RFI RES	
B	02.02.23	H.W.	REVISE	
G	28.05.26	K.L.	STORM	

BCC DS
RECEIVED
29-MAY-2026
APPLICATION REF
A007036958

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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER CALCULATION TABLE - SHEET 1 OF 2

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
Designer: H.W.
Scale: AS SHOWN
Checked: D.L.
Approved: A.PEZZUTTI
RPEQ No: 6382
FEB '23

Sheet Size: A1
Drawing No. B20067-C206

G | B | C | D | E | F

G

LOCATION			SUB-CATCHMENT RUNOFF								INLET DESIGN							DRAIN DESIGN																		PART FULL		DESIGN LEVELS								
DESIGN AEP	STRUCTURE No	DRAIN SECTION	SUB-CATCHMENTS CONTRIBUTING	SLOPE OF CATCHMENT	Tc SUB-CATCHMENT TIME OF CONC.	I RAINFALL INTENSITY	C10 10yr RUNOFF CO-EFFICIENT	C COEFFICIENT OF RUNOFF	A SUB-CATCHMENT AREA	CxA EQUIVALENT AREA	Q SUB-CATCHMENT DISCHARGE	FLOW IN K&C (INC. BYPASS)	ROAD GRADE AT INLET	MINOR FLOW WIDTH	INLET TYPE	Qg FLOW INTO INLET	Qb BYPASS FLOW	dV FLOW DEPTH x VELOCITY	tc CRITICAL TIME OF CONC.	I RAINFALL INTENSITY	+CA TOTAL (C x A)	Qt MAJOR TOTAL FLOW	Qs MAJOR ROAD FLOW CAPACITY	Qa ADDITIONAL PIPE FLOW	Qp PIPE FLOW	L REACH LENGTH	S PIPE GRADE	PIPE / BOX DIMENSIONS (CLASS)	V FLOW VELOCITY FULL (PIPE GRADE VELOCITY)	Qcap PIPE FLOW CAPACITY AT GRADE	STRUCTURE CHART No.	STRUCTURE RATIOS FOR 'K' VALUE CALCULATIONS	V2/2g VELOCITY HEAD	Ku US HEAD LOSS COEFFICIENT	hu US HEAD LOSS	Kw W.S.E COEFFICIENT	hw CHANGE IN W.S.E	Sf PIPE FRICTION SLOPE	hf PIPE FRICTION HEAD LOSS (L x Sf)	DEPTH	Vp VELOCITY	OBVERT LEVELS	DRAIN SECTION H.G.L.	UPSTREAM H.G.L.	LAT. H.G.L.	W.S.E	SURFACE OR K&C INVERT LEVEL	FREEBOARD	STRUCTURE No. / LNK STRUCTURE
				%	min	mm/h			ha	ha	l/s	l/s	%	m		l/s	l/s	m³/s	min	mm/h	ha	l/s	l/s	l/s	m	%	mm	m/s	l/s			m		m		m	m/s	m	m	m	m	m	m	m	
39% 2%	M4/1		G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										4.89		ACCESS CHAMBER 1050mm DIA														T3/T6	Ku = 1.86, Kw = 2.10		1.86 1.23	0.255 0.905	2.10 1.35	0.287 0.990					48.174 49.481		48.174 49.481	49.481	1.307 0.000	M4/1
39% 2%	G1/7A	M7/1			5.0	151.0 290.0	0.88	0.76 0.98	0.278	0.211 0.273	88.4 219.7	88.4 219.7	7.50	5.4	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	88.4 219.7	0.0 0.0	0.081 0.129	5.00	151.0 290.0	0.211 0.273	0.0 0.0	4,802.1 4,802.1	0.0 0.0	88.4 219.7	5.89	4.00	375(2)	0.80 1.99 (3.18)	350.8	G2	Ku = 8.43	0.033 0.155	8.43 2.55	0.276 0.394		0.276 0.394	5.52 1.20	0.058 0.071	0.128 0.215	2.65 3.35	43.411	43.2548	43.529 44.660		43.529 44.660	44.661	1.131 0.000	G1/7A
39% 2%	M7/1		G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										7.50		ACCESS CHAMBER 1050mm DIA														T3/T6	Ku = 1.95, Kw = 2.22		1.95 1.32	0.304 0.826	2.22 1.40	0.345 0.878					42.751 44.248		42.751 44.248	44.248	1.497 0.000	M7/1
39% 2%	G1/7B	M7/1			5.0	151.0 290.0	0.88	0.76 0.98	0.242	0.183 0.237	77.0 191.3	77.0 191.3	7.50	5.4	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	77.0 191.3	0.0 0.0	0.076 0.120	5.00	151.0 290.0	0.183 0.237	0.0 0.0	4,802.2 4,802.2	0.0 0.0	77.0 191.3	1.81	4.00	375(2)	0.70 1.73 (3.18)	350.8	G2	Ku = 9.14	0.025 0.031	9.14 2.95	0.226 0.092		0.226 0.092	8.62 0.24	0.000 0.004	0.119 0.198	2.54 3.24	43.247	43.0757	43.301 44.292		43.301 44.292	44.292	0.991 0.000	G1/7B
39% 2%	M7/1		G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										7.50		ACCESS CHAMBER 1050mm DIA														T3/T6	Ku = 1.95, Kw = 2.22		1.95 1.32	0.304 0.826	2.22 1.40	0.345 0.878					42.751 44.248		42.751 44.248	44.248	1.497 0.000	M7/1
39% 2%	G1/8A	G2/8B			5.0	151.0 290.0	0.88	0.76 0.98	0.261	0.198 0.256	82.8 205.9	82.8 205.9	0.55		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	82.8 205.9	0.0 0.0		5.00	151.0 290.0	0.198 0.256	0.0 0.0	40.0 20.0	0.0 0.0	82.8 205.9	5.47	2.00	375(3)	0.75 1.86 (2.25)	248.1	G2	Ku = 7.68	0.029 0.024	7.68 2.86	0.221 0.070		0.221 0.070	0.22 0.19	0.012 0.010	0.149 0.261	2.02 2.51	42.247	42.3548	42.575 43.324		42.575 43.324	43.324	0.749 0.000	G1/8A
39% 2%	G2/8B	m8/1	G1/8A		5.0	151.0 290.0	0.88	0.76 0.98	0.226	0.171 0.222	71.9 178.7	71.9 178.7	0.21		SAG LIP IN LINE GULLY - 2.4m LINTEL; MOUNTABLE K&C	71.9 178.7	0.0 0.0		5.05	150.5 289.3	0.369 0.478	0.0 0.0	40.0 20.0	0.0 0.0	154.3 383.7	7.02	2.50	375(2)	1.40 3.47 (2.51)	277.3	T1/T3	Ku = 1.81, Kw = 2.06	0.100 0.417	1.81 1.26	0.180 0.524	2.06 1.33	0.205 0.556	0.77 3.24	0.054 0.227	0.200 0.375	2.58 3.47	42.118	42.1634	42.368 43.275		42.368 43.275	43.275	0.907 0.000	G2/8B
39% 2%	M8/1		G1/8A; G2/8B; G1/7B; G1/7A; G1/3A; G1/3; G1/4A; G1/1B; G2/2A; G1/2; G2/2; G1/1A; G1/1										1.00		ACCESS CHAMBER 1050mm DIA														T3	Ku = 1.67, Kw = 1.93		1.67 1.67	0.117 0.272	1.93 1.92	0.135 0.314					42.126 42.534		42.126 42.534	43.308	1.182 0.774	M8/1
10% 2%	F1/9	G2/9			0.0	0.0 0.0				0.000 0.000	0.0 0.0	0.0 584.0	1.25		FIELD INLET TYPE 1 900x900	0.0 584.0	0.0 0.0		5.00	215.0 290.0	0.000 0.000	0.0 0.0	174.0 87.0	1,167.0 1,167.0	1,167.0 1,751.0	31.51	1.69	600(2)	4.13 6.19 (2.83)	799.6		Ku = 0.00	0.869 0.193	0.00 4.80	0.000 0.926		0.000 0.926	3.61 0.61	1.137 0.258	0.600 0.600	4.13 6.19	50.939	51.6401	51.636 51.749		51.636 51.749	51.749	0.113 0.000	F1/9
10% 2%	XM2/9	M3/9	G2/9A										1.00		ACCESS CHAMBER 1050mm DIA				13.08	150.6 205.5	0.086 0.098				1,203.1 1,806.8	75.45	3.80	750(2)	2.72 4.09 (4.91)	2,171.1	T1/T3	Ku = 0.13, Kw = 0.16	0.378 0.853	0.13 0.14	0.050 0.117	0.16 0.17	0.061 0.141	3.59 3.33	2.766 2.526	0.399 0.523	5.04 5.50	50.535	50.4517	50.510 50.655		50.510 50.655	51.338	0.828 0.683	XM2/9
10% 2%	XM3/9	M1/9	G3/9B; G2/9A										1.00		ACCESS CHAMBER 1050mm DIA				5.71	205.5 278.7	0.142 0.159				1,248.0 1,873.8	54.00	6.80	750(2)	2.82 4.24 (6.57)	2,904.3	T1/T3	Ku = 0.41, Kw = 0.46	0.407 0.918	0.41 0.41	0.166 0.373	0.46 0.45	0.187 0.416	6.52 6.15	3.570 3.335	0.344 0.438	6.32 6.98	47.648	47.5728	47.757 48.046		47.757 48.046	48.367	0.610 0.321	XM3/9
10% 2%	XM4/9	M5/9	G4/9C; G3/9B; G2/9A										1.00		ACCESS CHAMBER 1050mm DIA				5.53	207.7 281.6	0.214 0.239				1,290.7 1,938.2	33.46	6.28	750(2)	2.92 4.39 (6.32)	2,790.6	T1/T3	Ku = 0.38, Kw = 0.42	0.436 0.982	0.38 0.37	0.164 0.367	0.42 0.41	0.182 0.407	5.75 5.01	1.967 1.686	0.358 0.460	6.19 6.82	43.956	43.8879	44.067 44.346		44.067 44.346	44.810	0.743 0.464	XM4/9
10% 2%	M5/9	A	G5/9D; G4/9C; G3/9B; G2/9A										1.00		ACCESS CHAMBER 1200mm DIA				5.80	204.3 277.1	0.288 0.321				1,330.5 1,998.3	25.08	5.90	750(2)	3.01 4.52 (6.12)	2,705.3	T1/T3	Ku = 0.37, Kw = 0.41	0.463 1.044	0.37 0.37	0.172 0.383	0.41 0.40	0.191 0.423	3.40 3.22	0.894 0.807	0.371 0.480	6.10 6.70	41.856	41.794	41.982 42.304		41.982 42.304	42.620	0.638 0.316	M5/9
10% 2%	XM6/9	EX1/9	F1/9E; G5/9D; G4/9C; G3/9B; G2/9A										4.51		ACCESS CHAMBER 1800mm DIA.				6.01	201.9 273.8	0.365 0.408				1,897.4 2,587.0	15.24	0.89	900(2)	2.98 4.07 (2.68)	1,704.3	T9/T10	Ku = 1.92, Kw = 2.14	0.454 0.754	1.92 1.88	0.871 1.414	2.14 2.16	0.972 1.632	1.10 1.95	0.167 0.275	0.900 0.900	2.98 4.07	39.535	40.07	41.039 41.291		41.039 41.291	41.291	0.253 0.000	XM6/9
10% 2%	EX1/9		F1/9E; G5/9D; G4/9C; G3/9B; G2/9A										1.00		ACCESS CHAMBER 1800mm DIA.															Ku = 0.00											39.900 39.362		39.900 39.362	40.580		EX1/9
10% 2%	G2/9A	M2/9			13.0	151.0 206.0	0.88	0.74 0.84	0.117	0.086 0.098	36.2 55.9	36.2 55.9	1.82	2.1	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	36.2 55.9	0.0 0.0	0.044 0.056	13.00	151.0 206.0	0.086 0.098	0.0 0.0	2,274.7 2,274.7	0.0 0.0	36.2 55.9	9.21	1.00	375(2)	0.33 0.51 (1.59)	175.4	G2	Ku = 8.68	0.005 0.013	8.68 6.37	0.048 0.083		0.048 0.083	0.04 0.10	0.004 0.009	0.116 0.146	1.25 1.41	50.292	50.5033	50.551 50.723		50.551 50.723	51.311	0.761 0.588	G2/9A
10% 2%	XM2/9		G2/9A										1.00		ACCESS CHAMBER 1050mm DIA														T1/T3	Ku = 0.13, Kw = 0.16		0.13 0.14	0.050 0.117	0.16 0.17	0.061 0.141					50.510 50.655		50.510 50.655	51.338	0.828 0.683	XM2/9
10% 2%	G3/9B	M3/9			5.0	215.0 290.0	0.88	0.88 0.98	0.109	0.096 0.107	57.3 86.0	57.3 86.0	5.88	1.8	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	57.3 86.0	0.0 0.0	0.083 0.104	5.00	215.0 290.0	0.096 0.107	0.0 0.0	5,174.3 5,174.3	0.0 0.0	57.3 86.0	9.13	1.00	375(2)	0.52 0.78 (1.59)	175.4	G2	Ku = 6.39	0.014 0.031	6.39 3.87	0.088 0.120		0.088 0.120	0.11 0.24	0.010 0.022	0.147 0.185	1.42 1.58	47.405	47.7465	47.834 48.143		47.834 48.143	48.524	0.690 0.381	G3/9B
10% 2%	XM3/9		G3/9B; G2/9A										1.00		ACCESS CHAMBER 1050mm DIA														T1/T3	Ku = 0.41, Kw = 0.46		0.41 0.41	0.166 0.373	0.46 0.45	0.187 0.416					47.757 48.046		47.757 48.046	48.367	0.610 0.321	XM3/9
10% 2%	G4/9C	M4/9			5.0	215.0 290.0	0.88	0.88 0.98	0.089	0.078 0.087	46.8 70.2	46.8 70.2	6.90	1.6	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	46.8 70.2	0.0 0.0	0.077 0.095	5.00	215.0 290.0	0.078 0.087	0.0 0.0	4,920.0 4,920.0	0.0 0.0	46.8 70.2	9.13	1.50	375(2)	0.42 0.64 (1.95)	214.8	G2	Ku = 9.70	0.009 0.021	9.70 5.83	0.089 0.120		0.089 0.120	0.07 0.16	0.006 0.015	0.119 0.148	1.56 1.74	43.962	44.0564	44.144 44.442		44.144 44.442	44.989	0.845 0.548	G4/9C
10% 2%	XM4/9		G4/9C; G3/9B; G2/9A										1.00		ACCESS CHAMBER 1050mm DIA														T1/T3	Ku = 0.38, Kw = 0.42		0.38 0.37	0.164 0.367	0.42 0.41	0.182 0.407					44.067 44.346		44.067 44.346	44.810	0.743 0.464	XM4/9
10% 2%	G5/9D	M6/9D			5.0	215.0 290.0	0.88	0.88 0.98	0.084	0.074 0.082	43.9 66.0	43.9 66.0	5.59	1.7	ON-GRADE LIP IN LINE GULLY 2.4m LINTEL; MOUNTABLE K&C	43.9 66.0	0.0 0.0	0.070 0.087	5.00	215.0 290.0	0.074 0.082	0.0 0.0	5,703.1 5,703.1	0.0 0.0	43.9 66.0	8.74	0.40	375(2)	0.40 0.60 (1.00)	110.9	G2	Ku = 7.13	0.008 0.018	7.13 4.14	0.058 0.075		0.058 0.075	0.06 0.14	0.005 0.012	0.164 0.208	0.95 1.05	41.66	41.9684	42.026 42.352		42.026 42.352	42.663	0.637 0.311	G5/9D
10% 2%	M5/9		G5/9D; G4/9C; G3/9B; G2/9A										1.00		ACCESS CHAMBER 1200mm DIA														T1/T3	Ku = 0.37, Kw = 0.41		0.37 0.37	0.172 0.383	0.41 0.40	0.191 0.423					41.982 42.304		41.982 42.304	42.620	0.638 0.316	M5/9
10% 2%	F1/9E	M6/9D			5.0	215.0 290.0	0.88	0.76 0.86	0.101	0.077 0.086	45.7 69.6	571.7 595.6	1.00		FIELD INLET 900x900 DOME TOP	571.7 595.6	0.0 0.0		5.00	215.0 290.0	0.077 0.086	0.0 0.0	224.0 112.0	0.0 0.0	571.7 595.6	30.85	1.00	600(2)	2.02 2.11 (2.17)	614.3	G1	Ku = 2.28	0.209 0.208	2.28 2.21	0.475 0.460		0.475 0.460	0.87 0.86	0.267 0.267	0.458 0.476	2.47 2.47	39.583	41.207	41.680 41.800		41.680 41.800	41.800	0.120 0.000	F1/9E
10% 2%	XM6/9		F1/9E; G5/9D; G4/9C; G3/9B; G2/9A										4.51		ACCESS CHAMBER 1800mm DIA.														T9/T10	Ku = 1.92, Kw = 2.14		1.92 1.88	0.871 1.414	2.14 2.16	0.972 1.632					41.039 41.291		41.039 41.291	41.291	0.253 0.000	XM6/9

STORMWATER CALCULATION TABLE - SHEET 2 OF 2

BCC DS
RECEIVED
29-MAY-2026
APPLICATION REF
A007036958

LTD

R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	AMENDED TO SUIT WORKS CONSTRUCTED BY OTHERS	
E	28.10.25	S.G.	ISSUE FOR TENDER	
D	4.09.23	M.B.	ISSUE FOR TENDER	
C	18.07.23	M.Y.B.	RFI RESPONSE	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
G	28.05.26	K.L.	STORMWATER UPDATES	

L+R ENGINEERS MANAGERS SCIENTISTS
LEVEL 3, 120 WICKHAM STREET
FORTITUDE VALLEY QLD 4006
P.O. BOX 112 FORTITUDE VALLEY QLD 4006
CONSULT AUSTRALIA
TELEPHONE (07) 3250 9000
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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

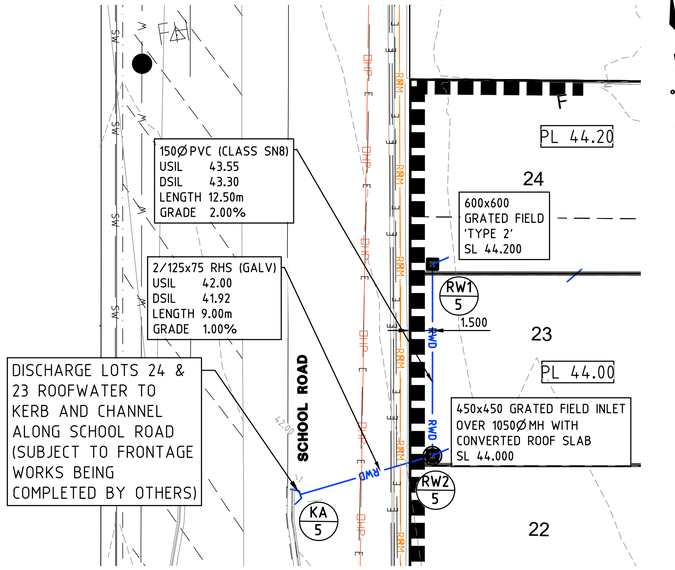
Title: STORMWATER CALCULATION TABLE - SHEET 2 OF 2

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
Designer: H.W.
Scale: AS SHOWN
Checked: D.L.
Approved: A.PEZZUTTI RPEQ No: 6382
FEB '23

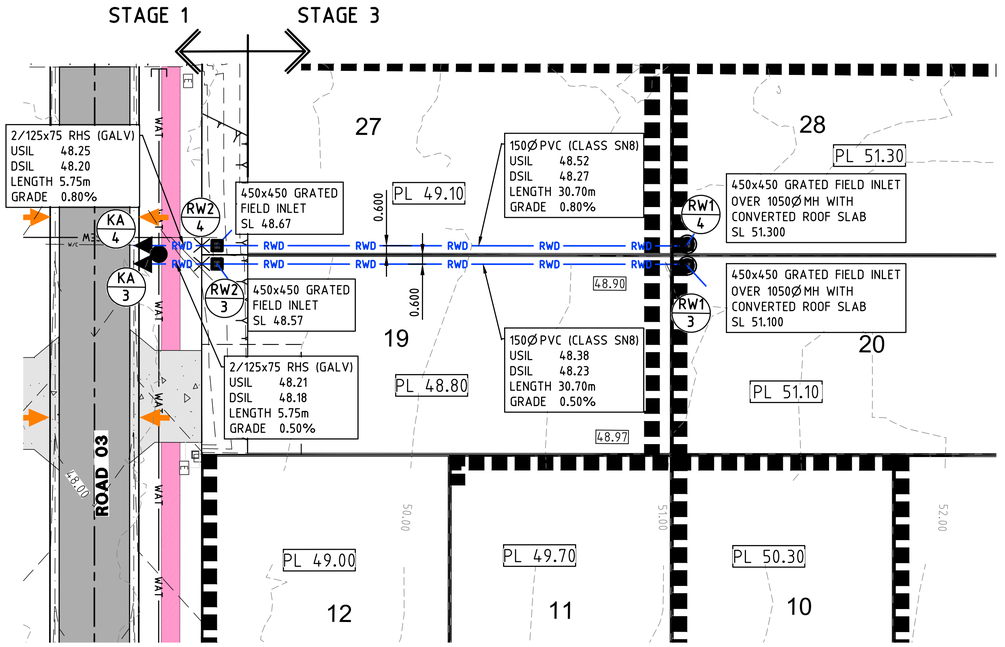
Sheet Size: A1
Drawing No.: B20067-C207

G | B | C | D | E | F



ROOFWATER DETAIL 3

SCALE 1 : 200

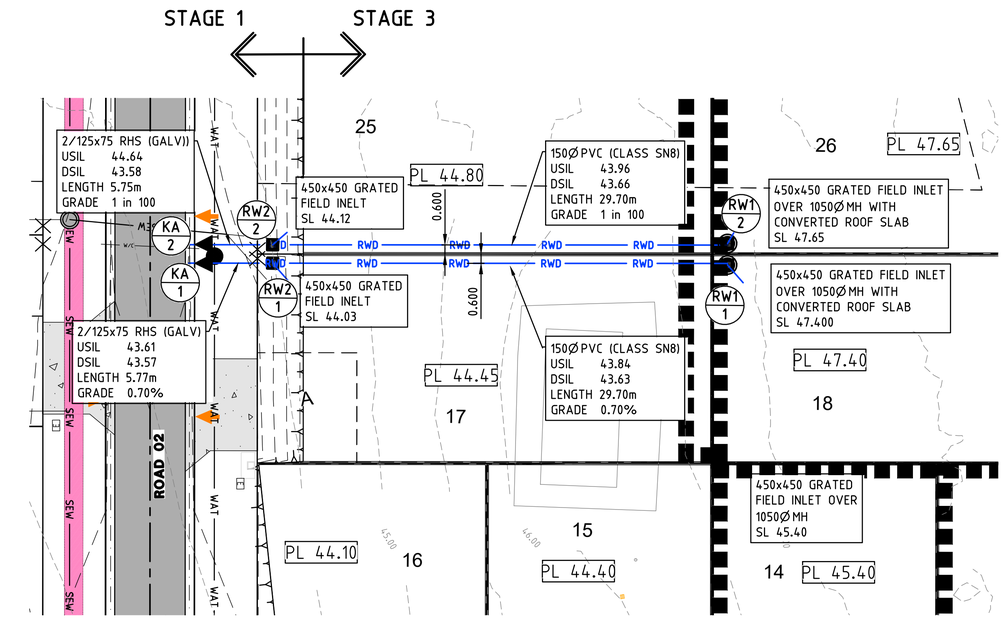


ROOFWATER DETAIL 2

SCALE 1 : 200

NOTES:- ROOFWATER CONNECTIONS

1. LOTS 1,2,6,8,9,11,12,15 & 16 SHALL BE PROVIDED WITH 150Ø PVC (CLASS SN8) ROOFWATER BRANCH CONNECTED INTO ROADWAY GULLY PITS AND EXTENDED 1.0m INTO LOTS AT MINIMUM 1.0% SLOPE. PROVIDE END CAP AND INSPECTION OPENING TO SURFACE.
2. END OF ROOFWATER BRANCH WITHIN LOT SHALL BE MINIMUM 1.0m DEPTH BELOW FINISHED LOT LEVEL.
3. ALL OTHER LOTS SHALL BE PROVIDED WITH 2 x KERB ADAPTORS INSTALLED INTO KERB & CHANNEL IN ACCORDANCE WITH BCC STD DRG BSD-8114 AND BSD-8115.
4. WHERE FOOTPATH IS PROPOSED ACROSS LOT FRONTAGES - EACH KERB ADAPTOR SHALL BE EXTENDED ACROSS THE VERGE INTO LOT WITH 125X75 RHS IN ACCORDANCE WITH BCC STD DWG BSD-8114.
5. FIELDS INLETS RW2/2, RW2/3, RW2/4 SHALL HAVE A 150ØPVC (CLASS SN8) ROOFWATER STUB (1.0m) TO FACILITATE FUTURE ROOFWATER EXTENSION TO SERVICE LOTS 18, 20, 26 & 28 IN STAGE 3.

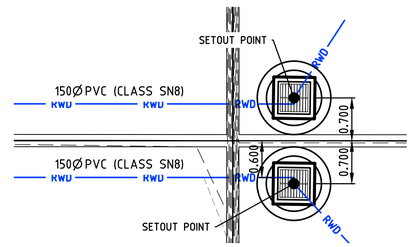


ROOFWATER DETAIL 1

SCALE 1 : 200

STANDARD BCC ROOFWATER DRAINAGE NOTES

1. ALL ROOFWATER DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH BCC PLANNING SCHEME POLICIES, SCHEDULES AND STANDARD DRAWINGS. THE CONTRACTOR MUST ENSURE THEY ARE FAMILIAR WITH THESE REQUIRMENTS.
2. WHERE ROOFWATER DRAINLINES ARE PROPOSED TO CONNECT TO THE KERB AND CHANNEL, THE CROSSING OF THE VERGE SHALL BE MADE USING GALVANISED STEEL RECTANGULAR SECTIONS (RHS) OF 100mm MAXIMUM HEIGHT OR EQUIVALENT uPVC CLASS 'SEH' PIPES COMPACTED ON COMPACTED SAND BEDDING. WHERE MORE THAN ONE SUCH RHS IS REQUIRED, EACH SHALL BE PLACED NOT LESS THAN 25mm APART AND WELDED TOGETHER, USING A STEEL SPACER BETWEEN THE SECTIONS. THE WHOLE ITEM SHALL BE GALVANISED AFTER FABRICATION.
3. WHERE ROOFWATER DRAINLINES ARE DESIGNED TO DISCHARGE TO THE KERB AND CHANNEL INVERT, THE LAST ROOFWATER PIT PRIOR TO THE VERGE MAY BE LOCATED ON AN ALIGNMENT OF BETWEEN 0.5 METRES FROM THE FRONT PROPERTY BOUNDARY. IN THIS INSTANCE THE ROOFWATER DRAINLINE BETWEEN THE PIT AND THE KERB AND CHANNEL SHALL BE LOCATED PARALLEL TO THE SIDE PROPERTY BOUNDARY, UNLESS NOTED OTHERWISE.
4. ALL ROOFWATER DRAINLINES SHALL BE CONSTRUCTED USING EITHER:
   - uPVC SEWER PIPE MINIMUM CLASS SN8, OR EQUIVALENT uPVC DRAINAGE PIPE;
   - uPVC DRAINAGE PIPE PLASCOR OR EQUIVALENT, RUBBER RING JOINTED PIPE, OF EQUIVALENT CLASS TO uPVC SEWER CLASS SN8;
   - REINFORCED CONCRETE PIPE CLASS '2'; OR
   - FRC PIPE CLASS '2'.
5. ALL ROOFWATER DRAINLINE SHALL BE PROVIDED WITH MINIMUM COVER OF 500mm, EXCEPTING IN THE INSTANCE WHERE ROOFWATER DRAINLINES CROSS THE VERGE AND DISCHARGE TO THE KERB AND CHANNEL INVERT.
6. ROOFWATER DRAINLINES SHALL BE LOCATED ON A 0.6m ALIGNMENT FROM ALL SIDE AND REAR BOUNDARIES, UNLESS SPECIFICALLY NOTED OTHERWISE.
7. THE MAXIMUM ROOFWATER DRAINLINE SIZE SHALL BE 225mm, UNLESS SPECIFICALLY NOTED OTHERWISE.
8. WHERE ROOFWATER DRAINLINES ARE PROPOSED TO CONNECT DIRECTLY TO THE STORMWATER DRAINAGE SYSTEM, CONNECTIONS SHALL BE MADE TO EITHER:
   - A GULLY BOX; OR
   - TO A STORMWATER MANHOLE
9. ROOFWATER DRAINLINE SHALL NOT CONNECT DIRECTLY TO STORMWATER DRAINLINES.
10. WHERE ROOFWATER CONNECTIONS ARE FROM DRAINAGE STRUCTURES, THE CONNECTION SHALL BE CONSTRUCTED OF 100mm DIAMETER uPVC CLASS SN8 (OR EQUIVALENT), LAID AT BETWEEN 1.0% (MIN.) TO 3.0% (MAX.). THE CONNECTION SHALL BE PROVIDED WITH MINIMUM OF 600mm COVER AND SHALL EXTEND A MINIMUM OF 1000mm INTO THE ALLOTMENT THAT IS PROPOSED TO SERVICE.
11. ROOFWATER CONNECTION POINTS SHALL BE PROVIDE TO EACH ALLOTMENT. IN THIS INSTANCES WHERE A ROOFWATER CONNECTION POINT HAS NOT BEEN PROVIDED FROM A ROOFWATER DRAINLINE, PROVISION SHALL BE MADE FOR THE KERB ADAPTORS TO BE PROVIDE WITHIN THE KERB AND CHANNEL. THE KERB ADAPTORS SHALL BE INSTALLED GENERALLY 0.5m FROM THE LOWER PROPERTY BOUNDARY. WHERE AN ALLOTMENT IS PROPOSED TO BE SERVICED BY A ROOFWATER CONNECTION POINT, THE CONTRACTOR SHALL ENSURE THAT THE MID BLOCK LEVEL IS 600mm ABOVE THE LOWEST POINT OF THE KERB AND CHANNEL INVERT, FRONTING THE ALLOTMENT, AND THE ENTIRE ALLOTMENT GRADES TOWARDS THE KERB AND CHANNEL. KERB ADAPTORS SHALL NOT BE LOCATED WITHIN A DISTANCE OF 2.0m UPSTREAM OF A GULLY INLET, SHOULD THIS SITUATION ARISE, A CONNECTION POINT SHALL BE PROVIDED FROM THE GULLY BOX TO SERVICE THE LOT IN QUESTION.



REAR LOT ALLOTMENT DRAINAGE - SETOUT DETAIL

SCALE 1 : 50

Associated Consultants:
SURVEYOR:
WOLTER CONSULTING PTY LTD
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R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
C	09.12.25	S.G.	ISSUE FOR TENDER	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
A	09.12.23	H.W.	ORIGINAL ISSUE	

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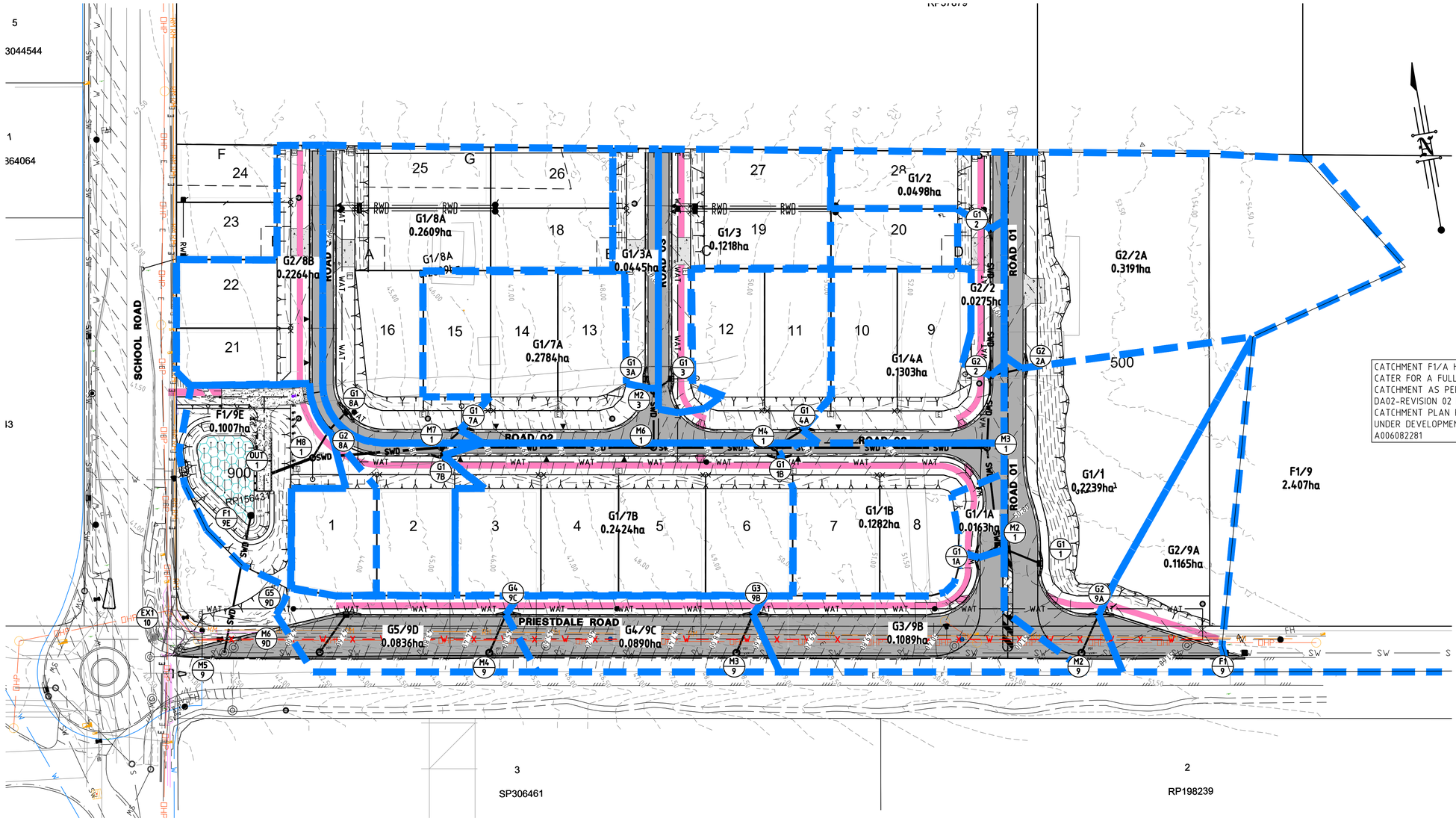
Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: ROOFWATER DRAINAGE LAYOUT PLAN

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.	Checked: D.L.	Sheet Size: A1	Drawing No.: B20067-C208
Designer: H.W.	Approved: A.PEZZUTTI RPEQ No: 6382		
Scale: AS SHOWN	FEB '23	A B C	



STORMWATER CATCHMENT PLAN

SCALE 1 : 500

STORMWATER DESIGN CRITERIA

1. STORMWATER HAS BEEN DESIGNED IN ACCORDANCE WITH QUEENSLAND URBAN DRAINAGE MANUAL (Q.U.D.M.) AND BRISBANE COUNCIL PLANNING SCHEME, POLICIES & DEVELOPMENT STANDARDS.

2. STORMWATER DESIGN EVENTS ADOPTED ARE AS FOLLOWS:-
   - "MINOR STORM" PIPED SYSTEM - 2 YEAR A.R.I.
   - PRIESTDALE ROAD "MINOR STORM" PIPED SYSTEM - 10 YEAR A.R.I.
   - "MAJOR STORM" OVERLAND FLOW - 50 YEAR A.R.I.

3. CATCHMENT LABELS CORRELATE TO INLET STRUCTURE LABELS U.N.O.

LEGEND - LINEWORK (proposed)

- STORMWATER CATCHMENT BOUNDARY
- F4/5 0.0944ha — STORMWATER CATCHMENT NUMBER AND CATCHMENT AREAS
- PROPOSED FINISHED SURFACE
- M1/1 SWD — PROPOSED STORMWATER MANHOLE (REFER STORMWATER LONGITUDINAL SECTIONS)
- G1/1 — PROPOSED STORMWATER GULLY PIT (REFER STORMWATER LONGITUDINAL SECTIONS)
- F1/1 SWD — PROPOSED STORMWATER FIELD INLET PIT (REFER STORMWATER LONGITUDINAL SECTIONS)
- 150Ø RWD — PROPOSED ROOFWATER MAIN

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Associated Consultants:
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WOLTER CONSULTING PTY LTD
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R.P.D.
Lot 1 & 2 on RP156431

LEVEL DATUM
AHD

No.	Date	By	Amendment	Checked
F	09.12.25	S.G.	ISSUE FOR TENDER	
E	28.10.25	S.G.	ISSUE FOR TENDER	
D	4.09.23	M.B.	ISSUE FOR TENDER	
C	18.07.23	M.B.	RFI RESPONSE	
B	02.02.23	H.W.	REVISED SEWER CONNECTION	
A	09.12.23	H.W.	ORIGINAL ISSUE	

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Project: PROPOSED RESIDENTIAL SUBDIVISION
96 SCHOOL ROAD,
ROCHEDALE

Title: STORMWATER CATCHMENT PLAN

Client: S&J DEVELOPMENT GROUP PTY LTD

Draftsperson: H.W.
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Approved: A.PEZZUTTI
RPEQ No: 6382
FEB '23

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Drawing No. B20067-C209

A | B | C | D | E | F