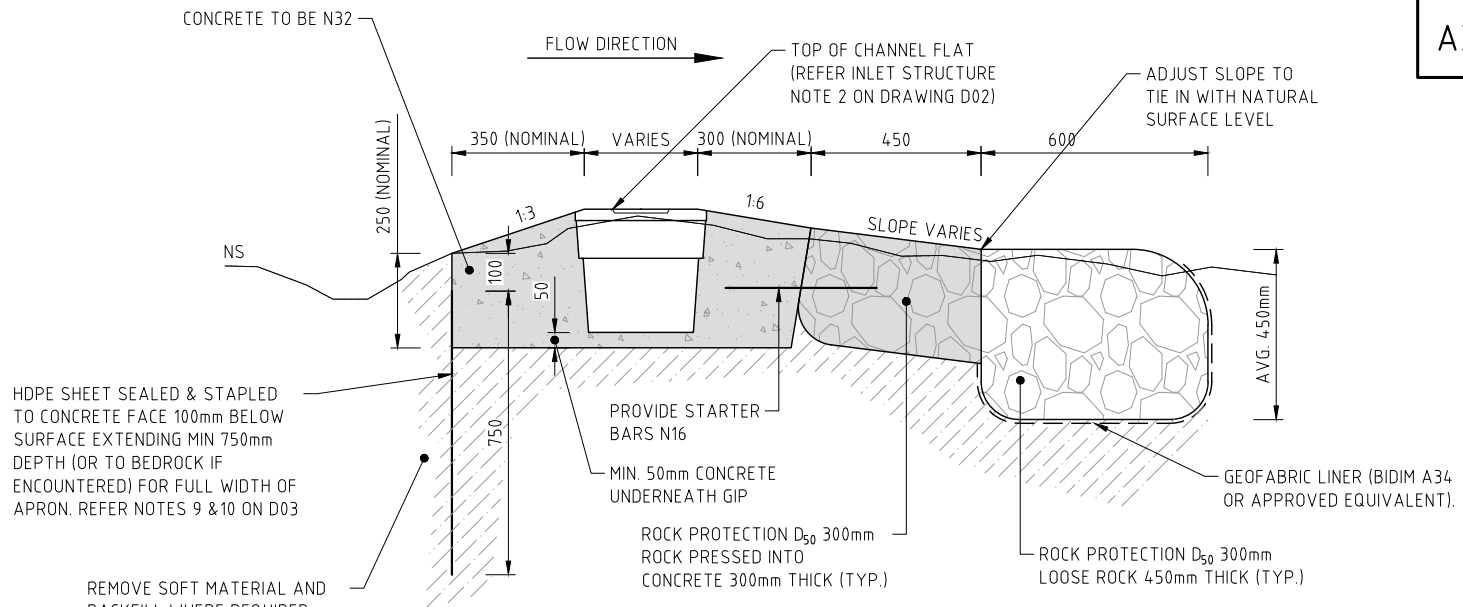


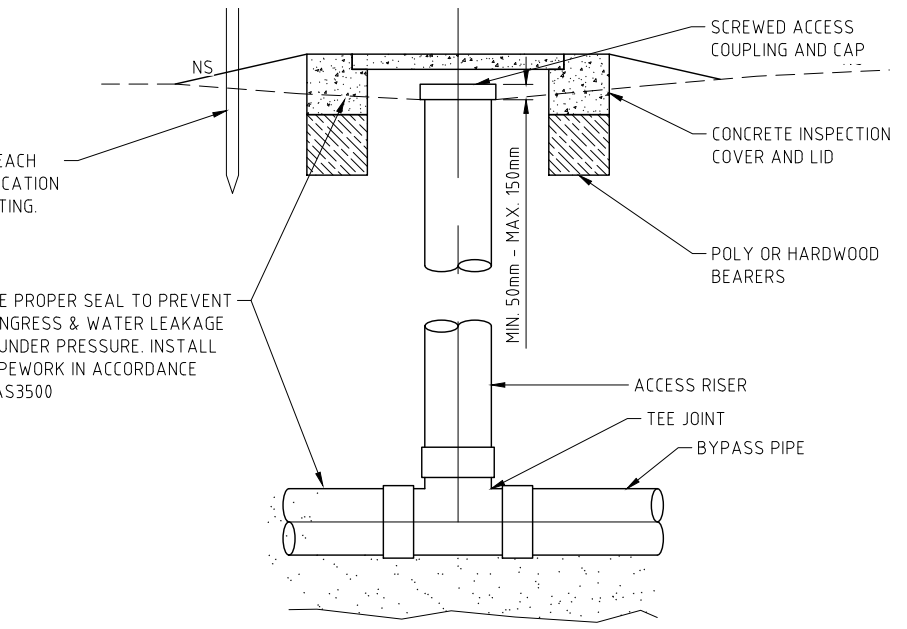
LOW FLOW BYPASS - PLAN VIEW

SCALE 1:40



TYPICAL SECTION B-B

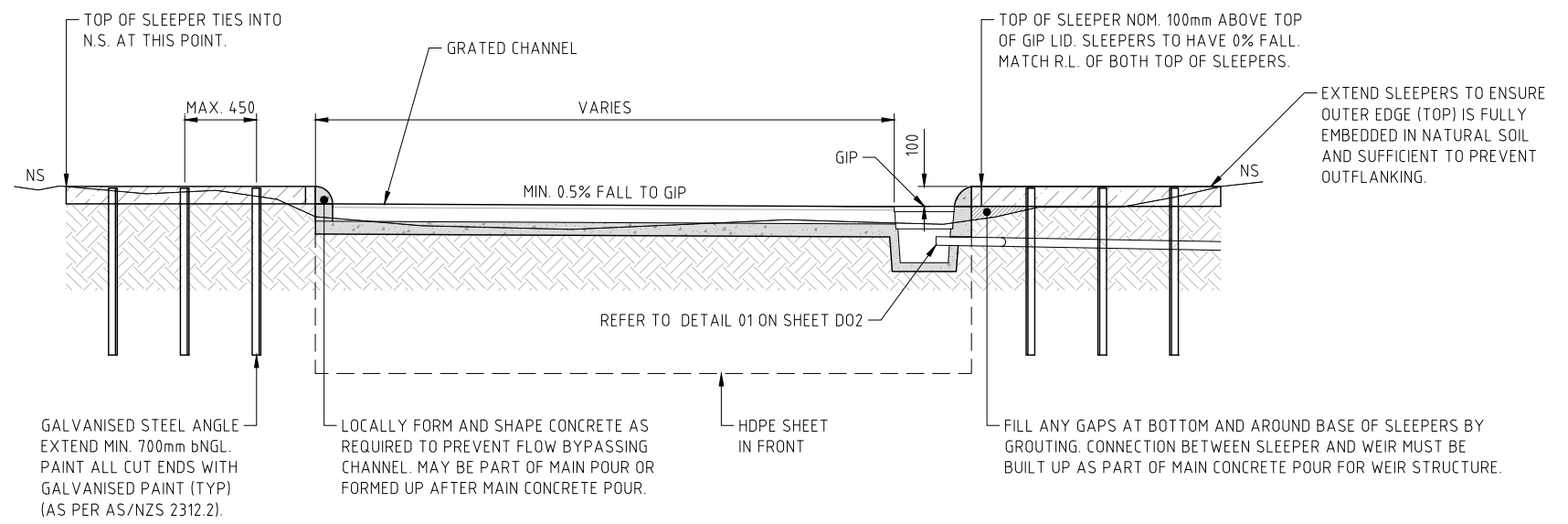
SCALE 1:20



FLUSHING POINT DETAIL

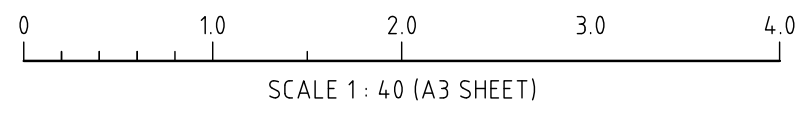
NOT TO SCALE

CONSTRUCTION ISSUE



TYPICAL SECTION A-A

SCALE 1:40



SLEEPER DIVERSION STRUCTURE (WING WALLS) REFER SECTION C-C ON D02

Amendments		
4	12.05.2022	ISSUED FOR CLIENT REVIEW
3	06.05.2022	ISSUED FOR CLIENT REVIEW
2	29.04.2022	ISSUED FOR CLIENT REVIEW
1	04.04.2022	ISSUED FOR CLIENT REVIEW
0	04.03.2022	ISSUED FOR CLIENT REVIEW

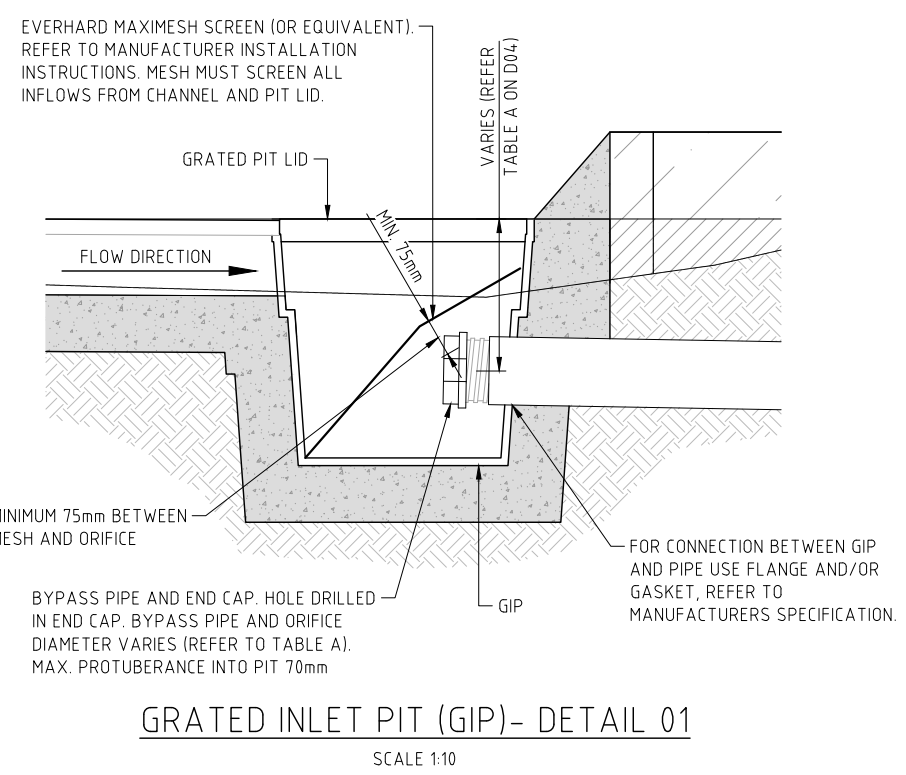
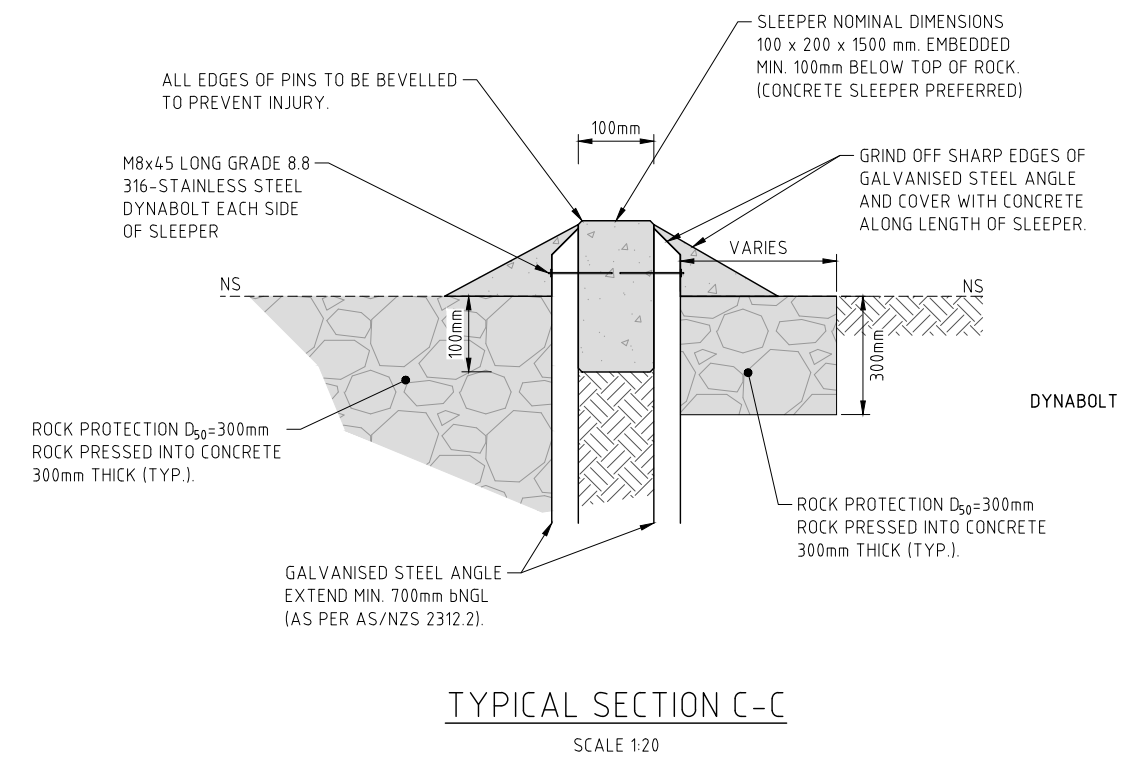
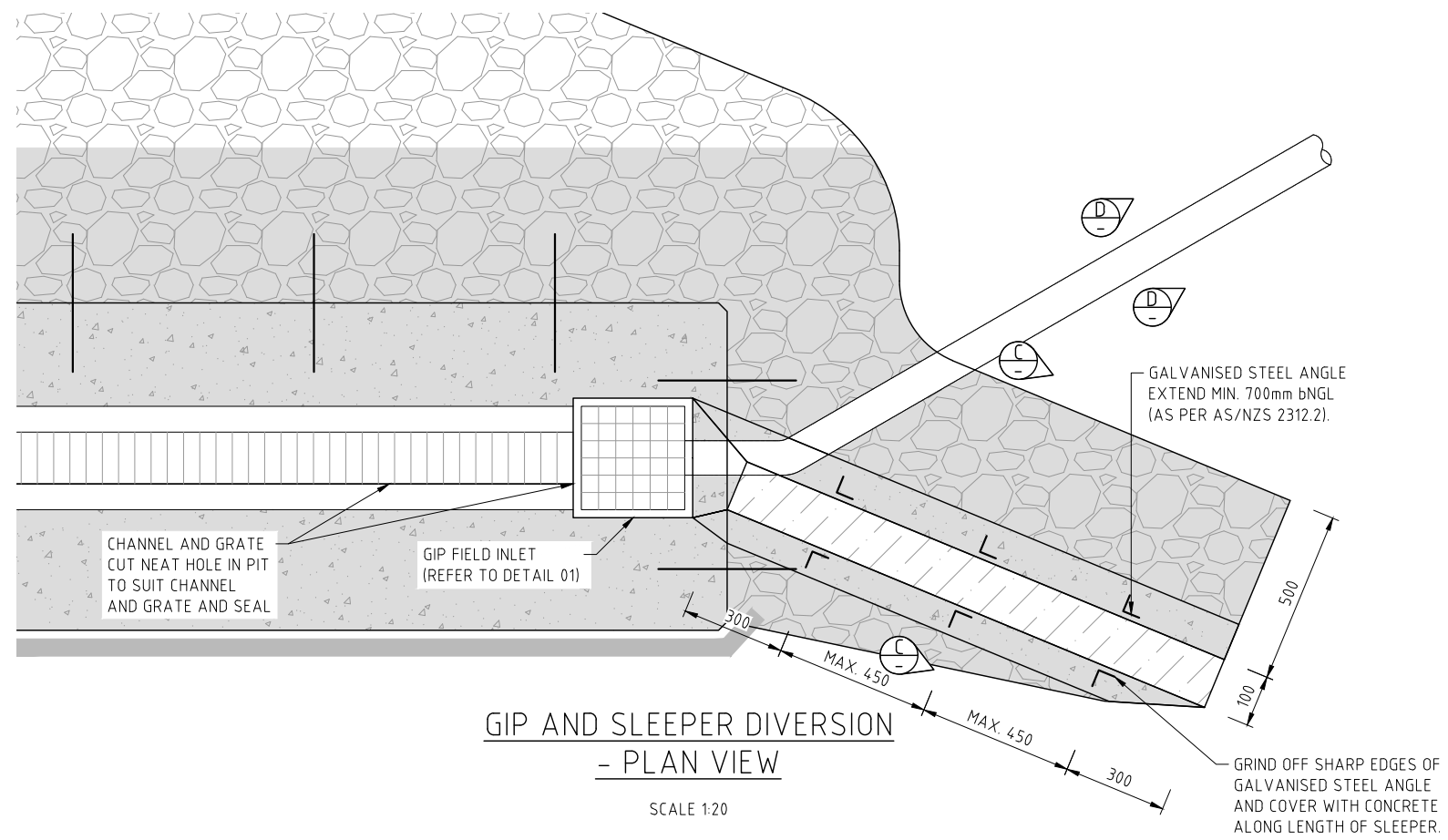


PROJECT: **FLows FOR THE FUTURE**
GENERIC GRAVITY BYPASS DESIGN

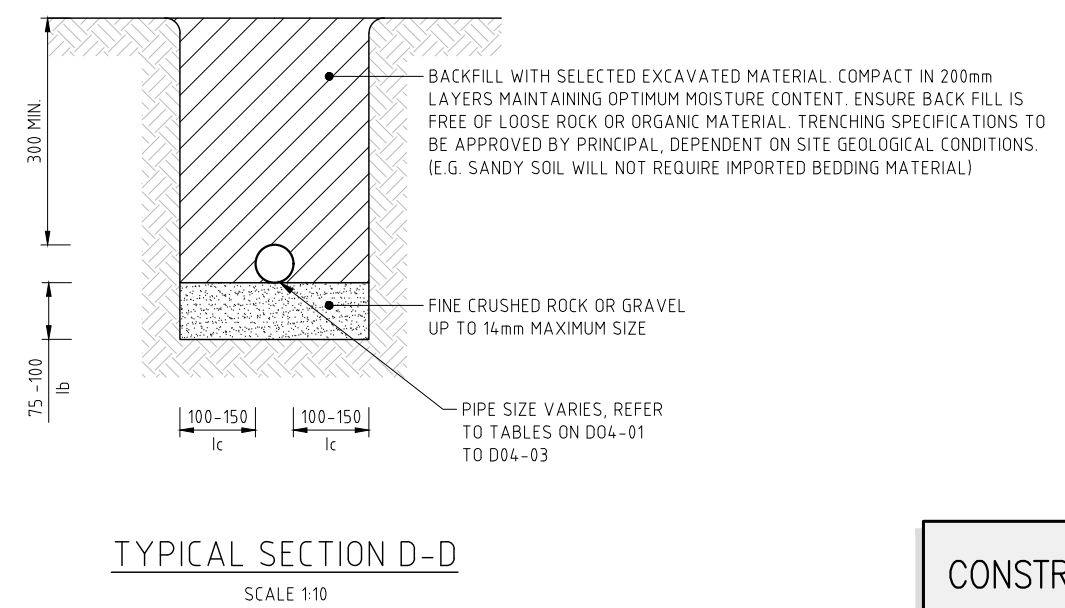
DESIGNED BY: MDM	DRAWN BY: BF
DRAWING DATE: 12.05.2022	CHECKED: DP
SHEET: 1 OF 1	SCALE: AS SHOWN
FILE: 21030305-DXX v3-2 220517.dwg	

GRAVITY BYPASS DEVICE
PLAN, SECTIONS AND DETAILS

PROJECT No. 21030305	DRAWING No. D01	REV. 4
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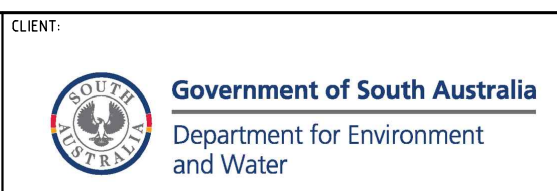


TRENCH DETAILS		
Do (PIPE SIZE)	MINIMUM VALUES	
	lb	lc
>75 - <=150	75	100
>150 - <=300	100	150



CONSTRUCTION ISSUE

Amendments	No.	Date	Description
	4	12.05.2022	ISSUED FOR CLIENT REVIEW
	3	06.05.2022	ISSUED FOR CLIENT REVIEW
	2	29.04.2022	ISSUED FOR CLIENT REVIEW
	1	04.04.2022	ISSUED FOR CLIENT REVIEW
	0	04.03.2022	ISSUED FOR CLIENT REVIEW



PROJECT:
**FLows FOR THE FUTURE
 GENERIC GRAVITY BYPASS DESIGN**

DESIGNED BY: MDM	DRAWN BY: BF
DRAWING DATE: 12.05.2022	CHECKED: DP
SHEET: 1 OF 1	SCALE: AS SHOWN
FILE: 21030305-DXX v3-2 220517.dwg	

GRAVITY BYPASS DEVICE TYPICAL DETAILS		
PROJECT No. 21030305	DRAWING No. D02	REV. 4

NOTES

GENERAL

1. ANY DEVIATIONS FROM THE GENERIC DESIGN MUST BE APPROVED PRIOR TO CONSTRUCTION AND IN WRITING BY THE PRINCIPAL
2. DEVICE CONSTRUCTION TO CONSIDER DURABILITY AND AIM FOR A DEVICE LIFESPAN OF 25 YEARS

INLET STRUCTURE - WEIR

3. CONCRETE TO BE 32MPa.
4. ROCK FOUND ON SITE MAY BE USED IF IT MEETS SIZE REQUIREMENT.
5. INCLUDE GEOTEXTILE LINER BELOW LOOSE ROCK.
6. WHERE INLET STRUCTURE WILL CONSIST OF DIVERSIONS AND PIT ONLY (I.E. NO CHANNEL AND GRATE) THEN A 600mm x 600mm PIT IS REQUIRED. ENSURE ALL FLOWS ARE DIRECTED TO THE PIT.
7. TOP OF GRATED CHANNEL TO BE MIN. 100mm ABOVE DAM SPILLWAY INVERT LEVEL.
8. GRATED CHANNEL AND GRATED INLET PIT (GIP) TO BE EVERHARD (HTTPS://WWW.EVERHARD.COM.AU) BLACK POLYMER (OR EQUIVALENT) WITH GALVANISED STEEL OR POLYMER GRATE.
9. GIP AND CHANNEL GRATES MUST BE REMOVABLE BY HAND.
10. MESH SCREEN OR BASKET MUST BE INSTALLED WITHIN GIP TO PROTECT ORIFICE FROM BLOCKAGE, PREVENT DEBRIS WASHING INTO THE BYPASS PIPE, AND TO ALLOW ANIMALS (E.G. FROGS) TO CLIMB OUT OF THE PIT. SCREEN/BASKET TO BE MAXIMESH (HTTPS://WWW.EVERHARD.COM.AU) OR EQUIVALENT. MESH SHALL NOT IMPEDE FREE FLOW OF WATER INTO PIT OR ORIFICE.
11. HDPE SHEET TO BE HDPE 60 TEXTURED WITH MIN. THICKNESS 1.4mm.
12. DEPTH OF HDPE LINER TO 1.1m WHERE SANDY OR BOGGY SUBSTRATE IS PRESENT. LINER TO BE GLUED AND STAPLED TO SLEEPERS EITHER SIDE OF INLET CHANNEL/PIT.
13. IN LIEU OF SCREWED FITTING, A PIPE WITH ORIFICE DRILLED INTO A PUSH ON END CAP MAY BE APPROPRIATE WHERE PLACEMENT OF MESH DOES NOT IMPACT FREE FLOW OF WATER INTO THE ORIFICE AND ORIFICE IS SHARP-EDGED. ENSURE WATERTIGHT SEAL AND CONNECTION BETWEEN BYPASS PIPE AND PIT WALL.
14. GIP MUST BE INTERNALLY BRACED DURING THE CONCRETE POUR TO PREVENT DEFORMATION AND POOR FITTING OF SCREENS.

INLET STRUCTURE - DIVERSIONS

15. DIVERSION SLEEPERS MAY BE CONCRETE, HARDWOOD, OR RECYCLED PLASTIC. CONCRETE SLEEPERS ARE THE FIRST PREFERENCE AND OTHER MATERIALS NEED TO BE APPROVED BY THE PRINCIPAL. FIXINGS TO BE SELECTED APPROPRIATE TO THE MATERIALS USED.
16. WHERE INLET STRUCTURE IS TO BE CONSTRUCTED WITHIN A WELL-DEFINED INLET CHANNEL, DIVERSION SLEEPERS MAY BE OMITTED. HOWEVER ROCK ARMOUR AROUND SIDES OF STRUCTURE WILL STILL BE REQUIRED IN THIS CASE AND BE APPROVED BY THE PRINCIPAL.
17. WHERE TWO OR MORE SLEEPERS REQUIRED BUTT ENDS OF SLEEPERS FIRMLY UP AGAINST EACH OTHER. ENSURE BUTT JOINT BETWEEN SLEEPERS OR WITH CONCRETE IS WATERPROOF (E.G. FILLING GAP WITH A SUITABLE SEALANT SUCH AS SIKAFLEX 11FC GREY (OR EQUIVALENT)).
18. SPACING OF GALVANISED STEEL ANGLE CAN BE VARIED TO AVOID FLOATING ROCKS, IF NECESSARY.
19. GALVANISED STEEL ANGLES FOR SLEEPERS TO BE COVERED BY CONCRETE AND MUST NOT BE EXPOSED.

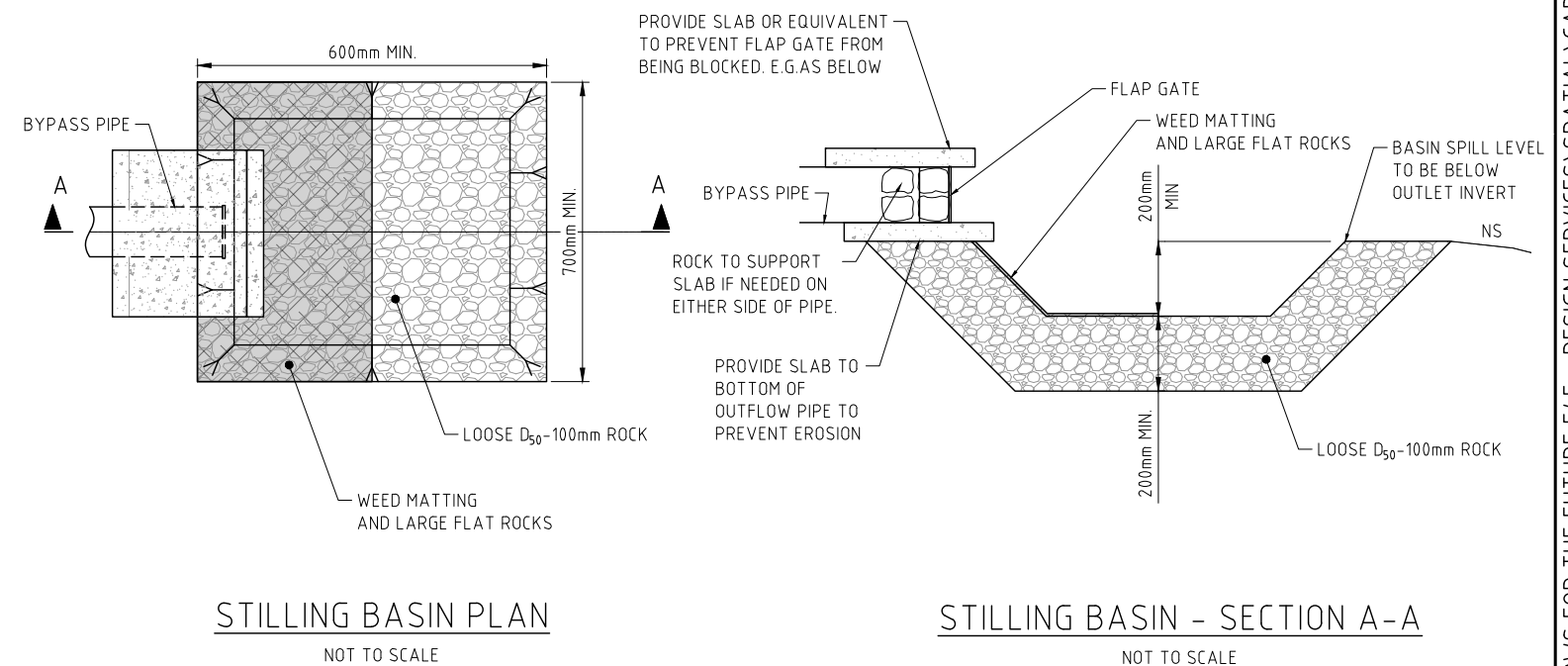
INLET STRUCTURE - EROSION RISK AND STOCK MANAGEMENT

20. REVEGETATION AT THE DISCRETION OF THE WORK ORDER MANAGER.
21. FENCING TO BE PROVIDED TO EXCLUDE STOCK FROM A MINIMUM OF 2m AROUND DEVICE. STYLE OF FENCING AND INCLUSION OF GATE FOR MAINTENANCE ACCESS TO BE SUBJECT TO LANDHOLDER AGREEMENT.
22. ANY SHARP EDGES ON EXPOSED ROCK TO BE BURIED OR SMOOTHED.
23. AS-BUILT/ MARK UP DRAWINGS SHOULD BE PROVIDED BY CONTRACTOR TO RECORD AND CLEARLY MARK THE WORK DONE.
24. OUTLET PIPE SHOULD NOT BE BUILT IN LINE & WITHIN THE DAM SPILLWAY, AND THE OUTLET POINT SHOULD NOT BE INSTALLED WITHIN THE DAM WALL AREA. NO TRENCHING IS PERMITTED THROUGH THE DAM WALL OR IN THE SPILLWAY WITH OUT EXPRESS PERMISSION FROM THE PRINCIPAL AND MITIGATION OF THE RISKS.

25. EROSION PROTECTION AND ROCK SIZING TO BE APPROVED BY THE PRINCIPAL AND NEEDS TO CONSIDER TFR.
26. THE DEVICE OUTFLOW MUST NOT BE LOCATED ON THE DAM SPILL OR CAUSE INCREASED RISK TO THE EROSION OF THE DAM WALL OR SPILLWAY. THE DEVICE OUTFLOW IS TO BE SITUATED SUITABLY FAR ENOUGH DOWNSTREAM.
27. INSPECTION POINT MARKER POSTS ARE TO BE TIMBER FENCE POSTS OR CAPPED 2 INCH GALVANISED POSTS.

BYPASS PIPE AND OUTLET

28. BYPASS PIPE MUST HAVE A CONSISTENT GRADE AND ANY GRADE LESS THAN 1.0% MUST BE APPROVED BY THE PRINCIPAL. THE CONTRACTOR MUST DEMONSTRATE ADHERENCE TO GRADE SPECIFICATIONS TO THE PRINCIPAL'S SATISFACTION, PRIOR TO BACKFILLING OF THE TRENCH.
29. POLYETHYLENE PN8 OR PVC DWV CLASS PIPE IS SUITABLE.
30. WHEREVER VERTICAL GRADIENT CAN NOT ACHIEVE THE GRADIENT IDENTIFIED IN TABLE A, OR WHERE HORIZONTAL ALIGNMENT DEFLECTS GREATER THAN 30 DEGREES, ALLOW TO INSTALL FLUSHING POINTS EVERY 50m FOR CLEANING, UNLESS OTHERWISE INDICATED.
31. FLUSHING POINTS SHALL BE FITTED WITH WATER TIGHT END CAPS AND CONCRETE IP COVER WITH SUPPORT BEARERS (OR AN EQUIVALENT ALTERNATIVE STOCK PROTECTION METHOD)
32. MINIMUM 300mm COVER IS TO BE MAINTAINED UNLESS OTHERWISE DIRECTED BY THE PRINCIPAL OR LANDHOLDER.
33. OUTLET TO BE FITTED WITH HINGED FLAP GATE TO SUIT PIPE SIZE TO PREVENT ANIMAL ACCESS AND ALLOW SEDIMENT AND DEBRIS TRAPPED WITHIN THE BYPASS PIPE TO DISCHARGE FREELY. OUTLET DESIGN MUST ENSURE THAT FLAP GATE IS NOT AT RISK OF BEING BLOCKED.
34. PROVIDE APPROPRIATE BEDDING MATERIAL IMMEDIATELY BELOW THE OUTLET PIPE, SUCH AS WEED MATTING AND LARGE FLAT ROCKS, THAT WILL PREVENT OR HINDER VEGETATION BUILDING UP AROUND AND IN THE PIPE.
35. ROCK SCOUR PROTECTION TO BE PROVIDED AT THE OUTLET AND MONITORED FOR EROSION. SCOUR PROTECTION TO BE LOOSE ROCK 700mm (W) x 700mm (L) x 200mm (D) WITH MINIMUM ROCK SIZE D50 OF 100mm. IF A STILLING BASIN IS PROVIDED, RECOMMENDED FOR FLOW RATES > 1.0 L/S, THE BYPASS PIPE OUTLET INVERT MUST BE SET ABOVE THE SPILL LEVEL OF THE BASIN SUCH THAT THE OUTLET FREELY DISCHARGES INTO THE BASIN.
36. INSTALLATION OF SEEPAGE COLLARS AND RELEVANT SPECIFICATIONS TO BE DIRECTED BY THE PRINCIPAL AS GUIDED BY SITE CONDITIONS.



CONSTRUCTION ISSUE

Amendments	No.	Date	Description
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	1	04.04.2022	ISSUED FOR CLIENT REVIEW
	0	04.03.2022	ISSUED FOR CLIENT REVIEW



PROJECT:
**FLows FOR THE FUTURE
GENERIC GRAVITY BYPASS DESIGN**

DESIGNED BY: MDM	DRAWN BY: BF
DRAWING DATE: 12.05.2022	CHECKED: DP
SHEET: 1 OF 1	SCALE: AS SHOWN
FILE: 21030305-DXX v3-2 220517.dwg	



STILLING BASIN DETAIL AND NOTES		
PROJECT No. 21030305	DRAWING No. D03	REV. 4

TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)
0.01	3	150	32	1	4	125	1	300	0.26	18	150	50	1	2	125	1	300	0.51	25	150	63	1	2	125	1	300
0.02	5	150	32	1	4	125	1	300	0.27	18	150	50	1	2	125	1	300	0.52	25	150	63	1	2	125	1	300
0.03	6	150	32	1	4	125	1	300	0.28	18	150	50	1	2	125	1	300	0.53	25	150	63	1	2	125	1	300
0.04	7	150	32	1	4	125	1	300	0.29	19	150	50	1	2	125	1	300	0.54	25	150	63	1	2	125	1	300
0.05	8	150	32	1	4	125	1	300	0.30	19	150	50	1	2	125	1	300	0.55	26	150	63	1	2	125	1	300
0.06	8	150	32	1	4	125	1	300	0.31	19	150	50	1	2	125	1	300	0.56	26	150	63	1	2	125	1	300
0.07	9	150	32	1	4	125	1	300	0.32	20	150	50	1	2	125	1	300	0.57	26	150	63	1	2	125	1	300
0.08	10	150	32	1	4	125	1	300	0.33	20	150	50	1	2	125	1	300	0.58	26	150	63	1	2	125	1	300
0.09	10	150	32	1	4	125	1	300	0.34	20	150	50	1	2	125	1	300	0.59	27	150	63	1	2	125	1	300
0.10	11	150	32	1	4	125	1	300	0.35	20	150	50	1	2	125	1	300	0.60	27	150	63	1	2	125	1	300
0.11	11	150	32	1	2	125	1	300	0.36	21	150	50	1	2	125	1	300	0.61	27	150	63	1	2	125	1	300
0.12	12	150	32	1	2	125	1	300	0.37	21	150	50	1	2	125	1	300	0.62	27	150	63	1	2	125	1	300
0.13	12	150	32	1	2	125	1	300	0.38	21	150	50	1	2	125	1	300	0.63	27	150	63	1	2	125	1	300
0.14	13	150	32	1	2	125	1	300	0.39	22	150	50	1	2	125	1	300	0.64	28	150	63	1	2	125	1	300
0.15	13	150	32	1	2	125	1	300	0.40	22	150	50	1	2	125	1	300	0.65	28	150	63	1	2	125	1	300
0.16	14	150	32	1	2	125	1	300	0.41	22	150	50	1	2	125	1	300	0.66	28	150	63	1	2	125	1	300
0.17	14	150	32	1	2	125	1	300	0.42	22	150	50	1	2	125	1	300	0.67	28	150	63	1	2	125	1	300
0.18	15	150	32	1	2	125	1	300	0.43	23	150	50	1	2	125	1	300	0.68	29	150	63	1	2	125	1	300
0.19	15	150	32	1	2	125	1	300	0.44	23	150	50	1	2	125	1	300	0.69	29	150	63	1	2	125	1	300
0.20	15	150	32	1	2	125	1	300	0.45	23	150	50	1	2	125	1	300	0.70	29	150	63	1	2	125	1	300
0.21	16	150	32	1	2	125	1	300	0.46	23	150	50	1	2	125	1	300	0.71	29	150	63	1	2	125	1	300
0.22	16	150	32	1	2	125	1	300	0.47	24	150	50	1	2	125	1	300	0.72	29	150	63	1	2	125	1	300
0.23	17	150	32	1	2	125	1	300	0.48	24	150	50	1	2	125	1	300	0.73	30	150	63	1	2	125	1	300
0.24	17	150	32	1	2	125	1	300	0.49	24	150	50	1	2	125	1	300	0.74	30	150	63	1	2	125	1	300
0.25	17	150	50	1	2	125	1	300	0.50	24	150	50	1	2	125	1	300	0.75	30	150	63	1	2	125	1	300

NOTE: TFR = THRESHOLD FLOW RATE. TO BE PROVIDED BY SUPERINTENDENT.

CONSTRUCTION ISSUE




TABLE A

Amendments 4 12.05.2022 ISSUED FOR CLIENT REVIEW 3 06.05.2022 ISSUED FOR CLIENT REVIEW 2 29.04.2022 ISSUED FOR CLIENT REVIEW 1 04.04.2022 ISSUED FOR CLIENT REVIEW 0 04.03.2022 ISSUED FOR CLIENT REVIEW	 WATER, COASTAL & ENVIRONMENTAL CONSULTANTS	CLIENT:  Government of South Australia Department for Environment and Water	PROJECT: FLOWS FOR THE FUTURE GENERIC GRAVITY BYPASS DESIGN	DESIGNED BY: MDM	DRAWN BY: BF	GRAVITY BYPASS DEVICE TABLE A - DESIGN SELECTION		
				DRAWING DATE: 12.05.2022	CHECKED: DP			
				SHEET: 1 OF 3	SCALE: AS SHOWN			
				FILE: 21030305-DXX v3-2 220517.dwg	PROJECT No. 21030305		DRAWING No. D04	REV. 4

TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)
0.76	30	150	63	1	2	125	1	300	1.10	36	150	63	1	2	125	1	300	3.60	66	150	100	1	2	125	1	300
0.77	30	150	63	1	2	125	1	300	1.20	38	150	63	1	2	125	1	300	3.70	67	150	100	1	2	125	1	300
0.78	31	150	63	1	2	125	1	300	1.30	39	150	63	1	2	125	1	300	3.80	67	150	100	1	2	125	1	300
0.79	31	150	63	1	2	125	1	300	1.40	41	150	63	1	2	125	1	300	3.90	68	150	100	1	2	125	1	300
0.80	31	150	63	1	2	125	1	300	1.50	42	150	90	1	2	125	1	300	4.00	69	150	160	1	2	200	1	300
0.81	31	150	63	1	2	125	1	300	1.60	44	150	90	1	2	125	1	300	4.10	70	150	160	1	2	200	1	300
0.82	31	150	63	1	2	125	1	300	1.70	45	150	90	1	2	125	1	300	4.20	71	150	160	1	2	200	1	300
0.83	32	150	63	1	2	125	1	300	1.80	46	150	90	1	2	125	1	300	4.30	72	150	160	1	2	200	1	300
0.84	32	150	63	1	2	125	1	300	1.90	48	150	90	1	2	125	1	300	4.40	73	150	160	1	2	200	1	300
0.85	32	150	63	1	2	125	1	300	2.00	49	150	90	1	2	125	1	300	4.50	73	150	160	1	2	200	1	300
0.86	32	150	63	1	2	125	1	300	2.10	50	150	90	1	2	125	1	300	4.60	74	150	160	1	2	200	1	300
0.87	32	150	63	1	2	125	1	300	2.20	51	150	90	1	2	125	1	300	4.70	75	150	160	1	2	200	1	300
0.88	32	150	63	1	2	125	1	300	2.30	52	150	90	1	2	125	1	300	4.80	76	150	160	1	2	200	1	300
0.89	33	150	63	1	2	125	1	300	2.40	54	150	90	1	2	125	1	300	4.90	77	150	160	1	2	200	1	300
0.90	33	150	63	1	2	125	1	300	2.50	55	150	90	1	2	125	1	300	5.00	77	150	160	1	2	200	1	300
0.91	33	150	63	1	2	125	1	300	2.60	56	150	90	1	2	125	1	300	5.10	78	150	160	1	2	200	1	300
0.92	33	150	63	1	2	125	1	300	2.70	57	150	90	1	2	125	1	300	5.20	79	150	160	1	2	200	1	300
0.93	33	150	63	1	2	125	1	300	2.80	58	150	90	1	2	125	1	300	5.30	80	150	160	1	2	200	1	300
0.94	34	150	63	1	2	125	1	300	2.90	59	150	90	1	2	125	1	300	5.40	80	150	160	1	2	200	1	300
0.95	34	150	63	1	2	125	1	300	3.00	60	150	100	1	2	125	1	300	5.50	81	150	160	1	2	200	1	300
0.96	34	150	63	1	2	125	1	300	3.10	61	150	100	1	2	125	1	300	5.60	82	150	160	1	2	200	1	300
0.97	34	150	63	1	2	125	1	300	3.20	62	150	100	1	2	125	1	300	5.70	83	150	160	1	2	200	1	300
0.98	34	150	63	1	2	125	1	300	3.30	63	150	100	1	2	125	1	300	5.80	83	150	160	1	2	200	1	300
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1.00	35	150	63	1	2	125	1	300	3.50	65	150	100	1	2	125	1	300	6.00	85	150	160	1	2	200	1	300

TABLE A (CONTINUED)

CONSTRUCTION ISSUE

		 <p>Government of South Australia Department for Environment and Water</p>		<p>PROJECT:</p> <p>FLows FOR THE FUTURE GENERIC GRAVITY BYPASS DESIGN</p>		<p>DESIGNED BY: MDM</p> <p>DRAWN BY: BF</p>		<p>GRAVITY BYPASS DEVICE TABLE A - DESIGN SELECTION</p>	
<p>Amendments</p>				<p>CLIENT:</p>		<p>DRAWING DATE: 12.05.2022</p> <p>CHECKED: DP</p>			
<p>4 12.05.2022 ISSUED FOR CLIENT REVIEW</p> <p>3 06.05.2022 ISSUED FOR CLIENT REVIEW</p> <p>2 29.04.2022 ISSUED FOR CLIENT REVIEW</p> <p>1 04.04.2022 ISSUED FOR CLIENT REVIEW</p> <p>0 04.03.2022 ISSUED FOR CLIENT REVIEW</p>		<p>WATER TECHNOLOGY WATER, COASTAL & ENVIRONMENTAL CONSULTANTS</p>		<p>FILE: 21030305-DXX v3-2 220517.dwg</p>		<p>SHEET: 2 OF 3</p> <p>SCALE: AS SHOWN</p>		<p>DRAWING No. D04</p> <p>REV. 4</p>	

TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)	TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)
6.10	85	150	200	1	2	150	2	450	8.60	101	150	200	1	2	150	2	450	11.10	115	150	200	1	2	200	2	450
6.20	86	150	200	1	2	150	2	450	8.70	102	150	200	1	2	150	2	450	11.20	116	150	200	1	2	200	2	450
6.30	87	150	200	1	2	150	2	450	8.80	103	150	200	1	2	150	2	450	11.30	116	150	200	1	2	200	2	450
6.40	88	150	200	1	2	150	2	450	8.90	103	150	200	1	2	150	2	450	11.40	117	150	200	1	2	200	2	450
6.50	88	150	200	1	2	150	2	450	9.00	104	150	200	1	2	150	2	450	11.50	117	150	200	1	2	200	2	450
6.60	89	150	200	1	2	150	2	450	9.10	104	150	200	1	2	200	2	450	11.60	118	150	200	1	2	200	2	450
6.70	90	150	200	1	2	150	2	450	9.20	105	150	200	1	2	200	2	450	11.70	118	150	200	1	2	200	2	450
6.80	90	150	200	1	2	150	2	450	9.30	106	150	200	1	2	200	2	450	11.80	119	150	200	1	2	200	2	450
6.90	91	150	200	1	2	150	2	450	9.40	106	150	200	1	2	200	2	450	11.90	119	150	200	1	2	200	2	450
7.00	92	150	200	1	2	150	2	450	9.50	107	150	200	1	2	200	2	450	12.00	112	200	250	1	2	200	2	600
7.10	92	150	200	1	2	150	2	450	9.60	107	150	200	1	2	200	2	450	12.10	112	200	250	1	2	200	2	600
7.20	93	150	200	1	2	150	2	450	9.70	108	150	200	1	2	200	2	450	12.20	112	200	250	1	2	200	2	600
7.30	93	150	200	1	2	150	2	450	9.80	108	150	200	1	2	200	2	450	12.30	113	200	250	1	2	200	2	600
7.40	94	150	200	1	2	150	2	450	9.90	109	150	200	1	2	200	2	450	12.40	113	200	250	1	2	200	2	600
7.50	95	150	200	1	2	150	2	450	10.00	109	150	200	1	2	200	2	450	12.50	114	200	250	1	2	200	2	600
7.60	95	150	200	1	2	150	2	450	10.10	110	150	200	1	2	200	2	450	12.60	114	200	250	1	2	200	2	600
7.70	96	150	200	1	2	150	2	450	10.20	110	150	200	1	2	200	2	450	12.70	115	200	250	1	2	200	2	600
7.80	97	150	200	1	2	150	2	450	10.30	111	150	200	1	2	200	2	450	12.80	115	200	250	1	2	200	2	600
7.90	97	150	200	1	2	150	2	450	10.40	112	150	200	1	2	200	2	450	12.90	116	200	250	1	2	200	2	600
8.00	98	150	200	1	2	150	2	450	10.50	112	150	200	1	2	200	2	450	13.00	116	200	250	1	2	200	3	600
8.10	98	150	200	1	2	150	2	450	10.60	113	150	200	1	2	200	2	450	13.10	117	200	250	1	2	200	3	600
8.20	99	150	200	1	2	150	2	450	10.70	113	150	200	1	2	200	2	450	13.20	117	200	250	1	2	200	3	600
8.30	100	150	200	1	2	150	2	450	10.80	114	150	200	1	2	200	2	450	13.30	117	200	250	1	2	200	3	600
8.40	100	150	200	1	2	150	2	450	10.90	114	150	200	1	2	200	2	450	13.40	118	200	250	1	2	200	3	600
8.50	101	150	200	1	2	150	2	450	11.00	115	150	200	1	2	200	2	450	13.50	118	200	250	1	2	200	3	600

TFR (L/s)	ORIFICE DIAM. (MM)	DEPTH TO CENTRE OF ORIFICE FROM TOP OF PIT (MM)	MIN. PIPE NOM. DIAM. (MM)	MIN. PIPE GRADE (%)	SUGGEST. PIPE GRADE (%)	NOM. CHANNEL WIDTH (MM)	CHANNEL LENGTH (M)	MIN. PIT DEPTH (MM)
13.60	119	200	250	1	2	200	3	600
13.70	119	200	250	1	2	200	3	600
13.80	120	200	250	1	2	200	3	600
13.90	120	200	250	1	2	200	3	600
14.00	120	200	250	1	2	200	3	600
14.10	121	200	250	1	2	200	3	600
14.20	121	200	250	1	2	200	3	600
14.30	122	200	250	1	2	200	3	600
14.40	122	200	250	1	2	200	3	600
14.50	123	200	250	1	2	200	3	600
14.60	123	200	250	1	2	200	3	600
14.70	123	200	250	1	2	200	3	600
14.80	124	200	250	1	2	200	3	600
14.90	124	200	250	1	2	200	3	600
15.00	125	200	250	1	2	200	3	600
15.10	125	200	250	1	2	200	3	600
15.20	126	200	250	1	2	200	3	600
15.30	126	200	250	1	2	200	3	600
15.40	126	200	250	1	2	200	3	600
15.50	127	200	250	1	2	200	3	600
15.60	127	200	250	1	2	200	3	600
15.70	128	200	250	1	2	200	3	600
15.80	128	200	250	1	2	200	3	600
15.90	128	200	250	1	2	200	3	600
16.00	129	200	250	1	2	200	3	600

TABLE A (CONTINUED)

CONSTRUCTION ISSUE

Amendments	Date	Description
4	12.05.2022	ISSUED FOR CLIENT REVIEW
3	06.05.2022	ISSUED FOR CLIENT REVIEW
2	29.04.2022	ISSUED FOR CLIENT REVIEW
1	04.04.2022	ISSUED FOR CLIENT REVIEW
0	04.03.2022	ISSUED FOR CLIENT REVIEW



CLIENT:

Government of South Australia
Department for Environment and Water

PROJECT:

**FLows FOR THE FUTURE
GENERIC GRAVITY BYPASS DESIGN**

DESIGNED BY: MDM	DRAWN BY: BF
DRAWING DATE: 12.05.2022	CHECKED: DP
SHEET: 3 OF 3	SCALE: AS SHOWN
FILE: 21030305-DXX v3-2 220517.dwg	

GRAVITY BYPASS DEVICE TABLE A - DESIGN SELECTION		
PROJECT No. 21030305	DRAWING No. D04	REV. 4