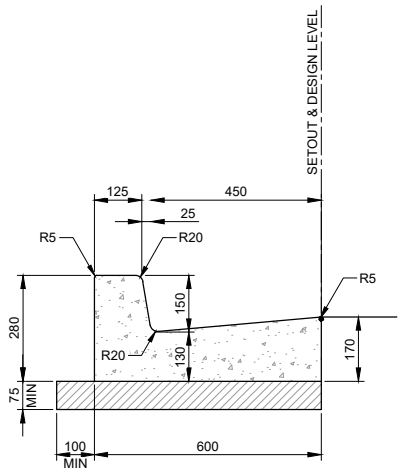
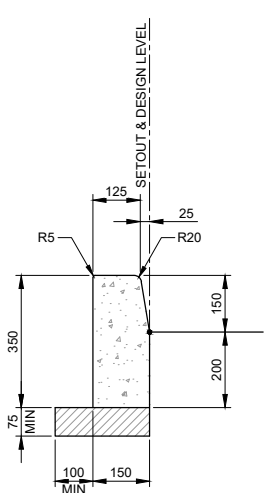
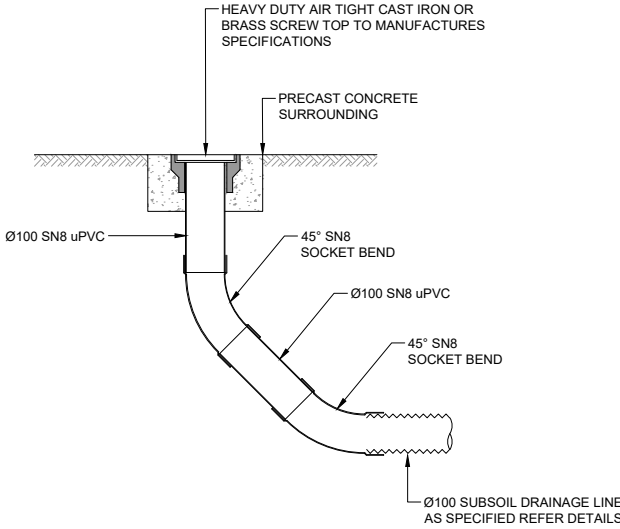




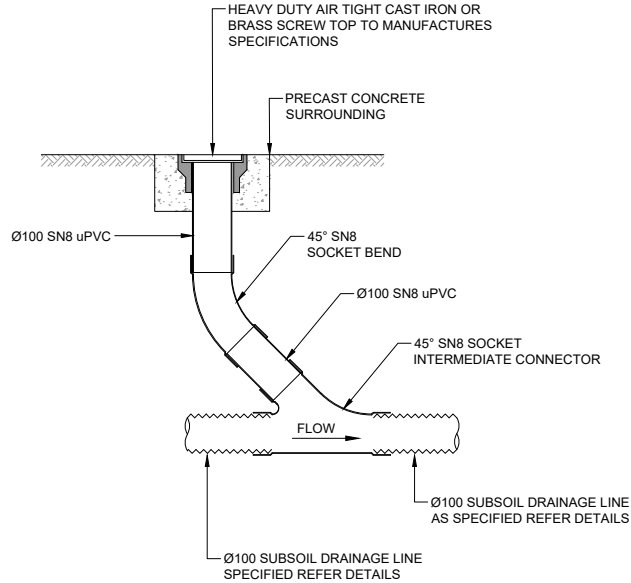
KERB AND GUTTER (KG)
SCALE 1:10



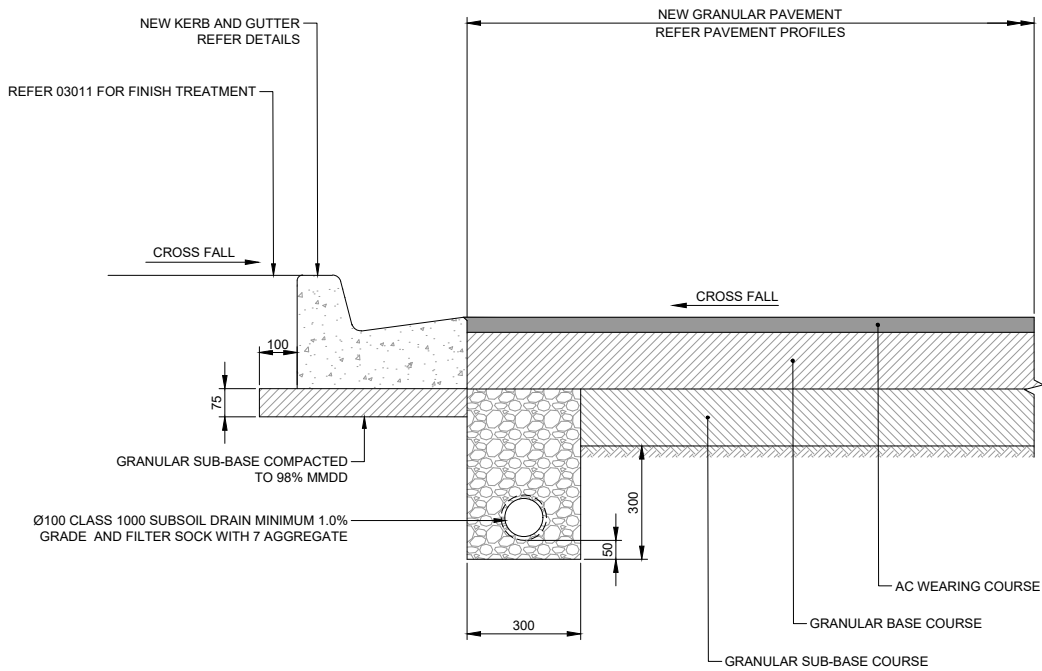
KERB ONLY (KO)
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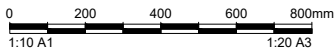
**SECTION
SUBSOIL FLUSHING POINT (FP)**
SCALE 1:10



**SECTION
SUBSOIL INTERMEDIATE RISER (IR)**
SCALE 1:10



**PAVEMENT EDGE DETAIL
NEW GRANULAR PAVEMENT**
SCALE 1:10



NOT FOR CONSTRUCTION

			Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved		
																		ARW			CG			GC		
C ISSUED FOR REF SUBMISSION			CG JT 15.07.2025						RICHMOND RIVER			PAVEMENT			Project No			Originator			Func			Sheet No.		
B ISSUED FOR REF SUBMISSION			CG JT 20.06.2025						HIGH CAMPUS			DETAILS			Spat			Type			Role			Rev		
A 100% SCHEMATIC DESIGN			CG JHH 18.12.2024						LISMORE, NSW			SHEET 1														
Rev Description			Eng Draft Date			Rev Description			Eng Draft Date			Rev Description			Eng Draft Date			Rev Description			Eng Draft Date			Rev Description		



School Infrastructure NSW



912 9439 7288 | Level 6, 73 Miller Street, North Sydney, NSW 2060

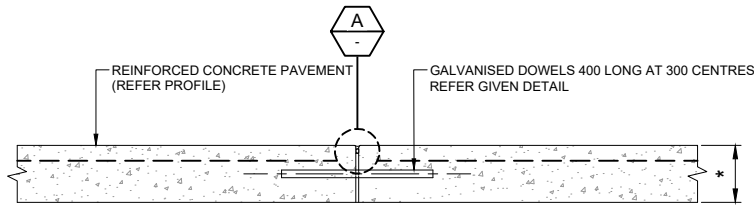


RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

PAVEMENT
DETAILS
SHEET 1

Scale at A1 Drawn ARW Designed CG Approved GC

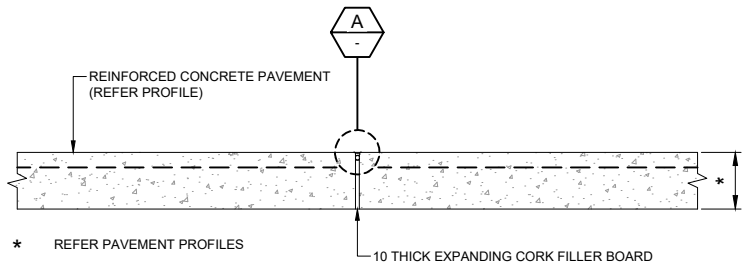
Project No RRHS-TTW-00-00-DR-C-03041-C
15.07.2025 5:32 PM



* REFER PAVEMENT PROFILES

- NOTE
1. CONNOLLY EXPANSION JOINT ACCEPTED OR APPROVED EQUIVALENT
 2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

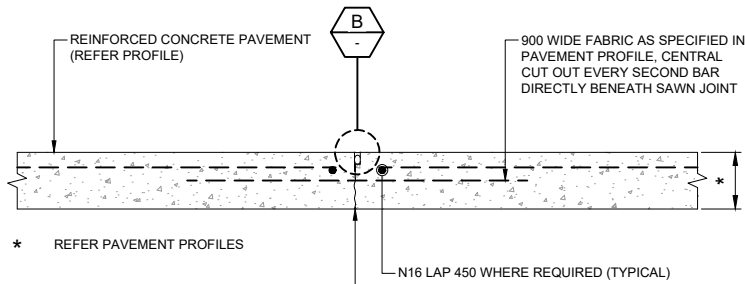
DOWELED EXPANSION JOINT (DEJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

- NOTE
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 2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

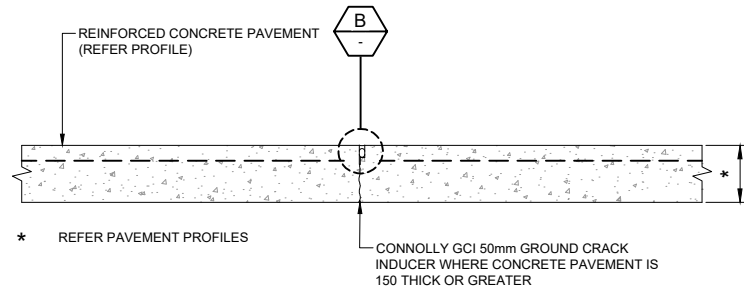
EXPANSION JOINT (EJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

- NOTE
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 2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

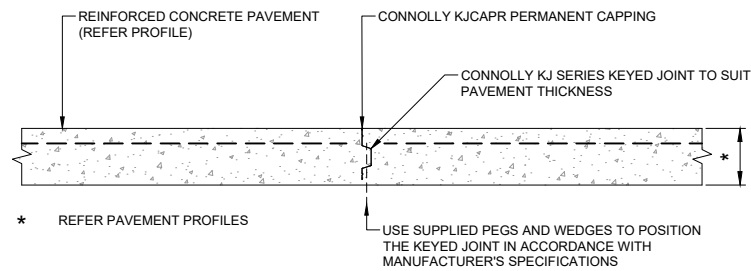
SAWN CONTROL JOINT (SJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

- NOTE
1. CONNOLLY CRACK INDUCED JOINT ACCEPTED OR APPROVED EQUIVALENT
 2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

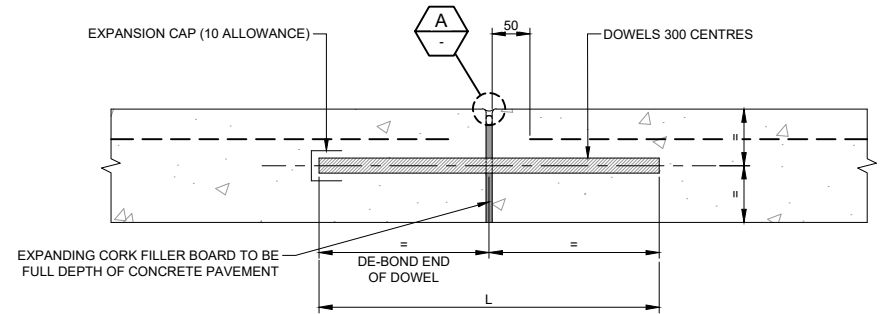
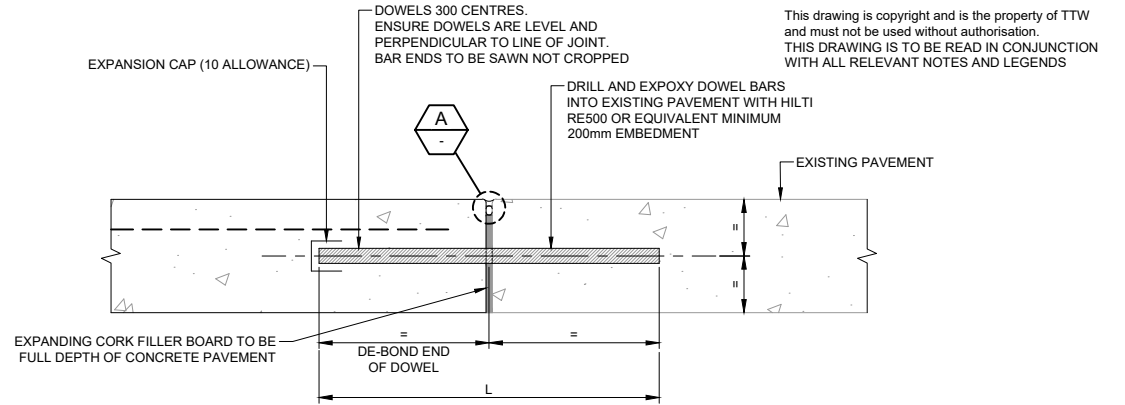
WEAKENED PLANE JOINT (WPJ)
SCALE 1:10



* REFER PAVEMENT PROFILES

- NOTE
1. CONNOLLY KEY JOINT ACCEPTED OR APPROVED EQUIVALENT
 2. PROVIDE 50mm COVER EITHER SIDE OF JOINT

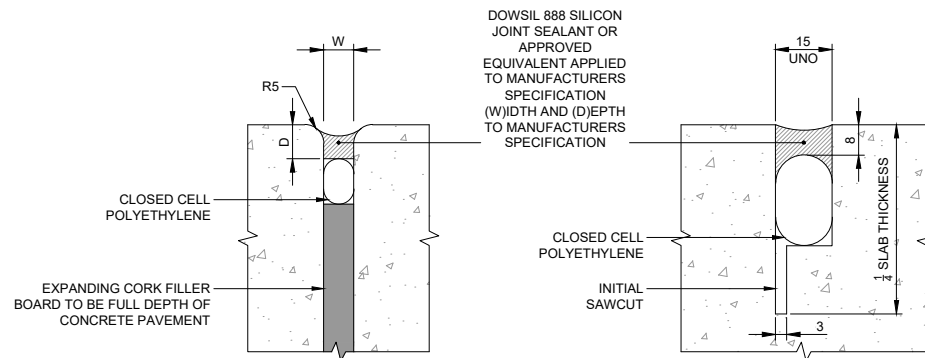
KEYED JOINT (KJ)
SCALE 1:10



NOTE
DOWEL BARS TO BE PLAIN ROUND STEEL AND OF GRADE 250N

CONCRETE THICKNESS	DOWEL SIZE	DOWEL LENGTH (L)
150 - 190	Ø20	450
200 - 240	Ø24	450
250 - 270	Ø30	450
280 - 340	Ø33	450
>340	Ø36	500

DOWEL JOINT DETAIL
SCALE 1:5

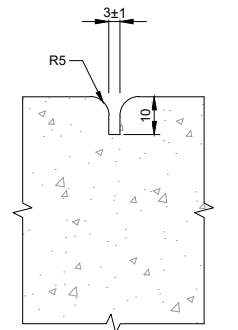


NOTE
REFER TO CONCRETE JOINTING
NOTES FOR TIMING OF SAW CUTS

DETAIL A
SCALE 1:1

NOTE
REFER TO CONCRETE JOINTING
NOTES FOR TIMING OF SAW CUTS

DETAIL B
SCALE 1:1



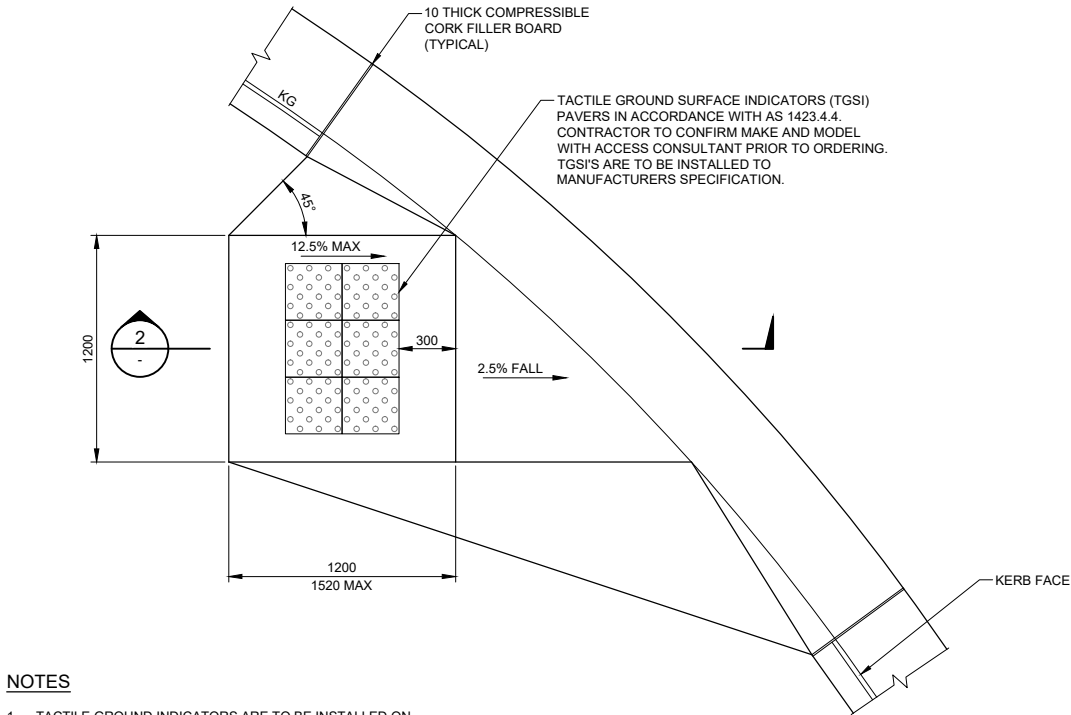
NOTE
REFER TO CONCRETE JOINTING
NOTES FOR TIMING TOOL JOINTS

DETAIL C
SCALE 1:1

NOT FOR CONSTRUCTION

									Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved					
									 School Infrastructure NSW			 Structural Civil Traffic Façade			RICHMOND RIVER HIGH CAMPUS LISMORE, NSW			PAVEMENT DETAILS SHEET 2			ARW			CG			GC								
C ISSUED FOR REF SUBMISSION CG JT 15.07.2025												612 9439 7288 Level 6, 73 Miller Street, North Sydney, NSW 2060			INTERNAL CIVIL WORKS																				
B ISSUED FOR REF SUBMISSION CG JT 20.06.2025																																			
A 100% SCHEMATIC DESIGN CG JHH 18.12.2024																																			
Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Project No	Originator	Func	Spat	Type	Role	Sheet No.	Rev	RRHS-TTW-00-00-DR-C-03042-C											
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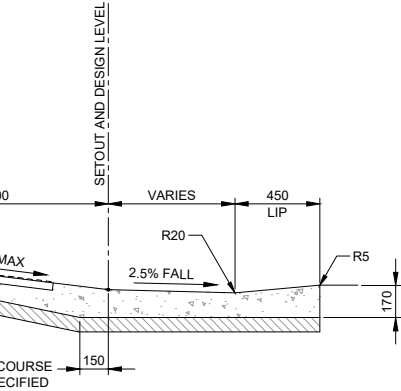
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	ARW	CG	GC				
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RRHS-TTW-00-00-DR-C-03043-C							
15.07.2025 5:32 PM							



NOTES

1. TACTILE GROUND INDICATORS ARE TO BE INSTALLED ON ACCESSIBLE PEDESTRIAN ROUTES ONLY.
2. TGSIS ARE TO BE IN ACCORDANCE WITH AS/NZS 1428.4.4 2009.
3. TGS'S SHALL NOT BE INSTALLED WITHIN KERB RAMPS UNLESS APPROVED BY THE AUTHORITIES.

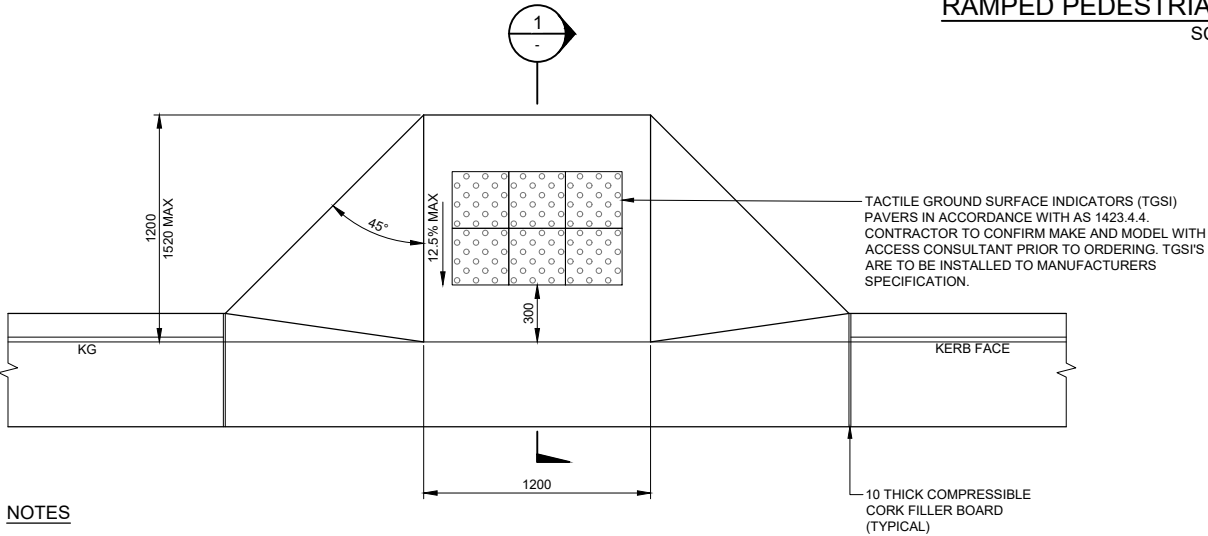
PLAN



SECTION 2

RAMPED PEDESTRIAN CROSSING - ON CURVE

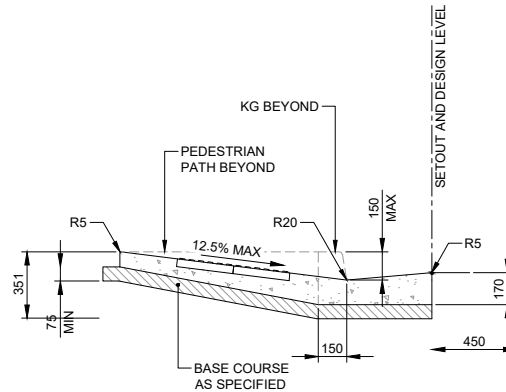
SCALE 1:20



NOTES

1. TACTILE GROUND INDICATORS ARE TO BE INSTALLED ON ACCESSIBLE PEDESTRIAN ROUTES ONLY.
2. TGSIS ARE TO BE IN ACCORDANCE WITH AS/NZS 1428.4.4 2009.
3. TGS'S SHALL NOT BE INSTALLED WITHIN KERB RAMPS UNLESS APPROVED BY THE AUTHORITIES.

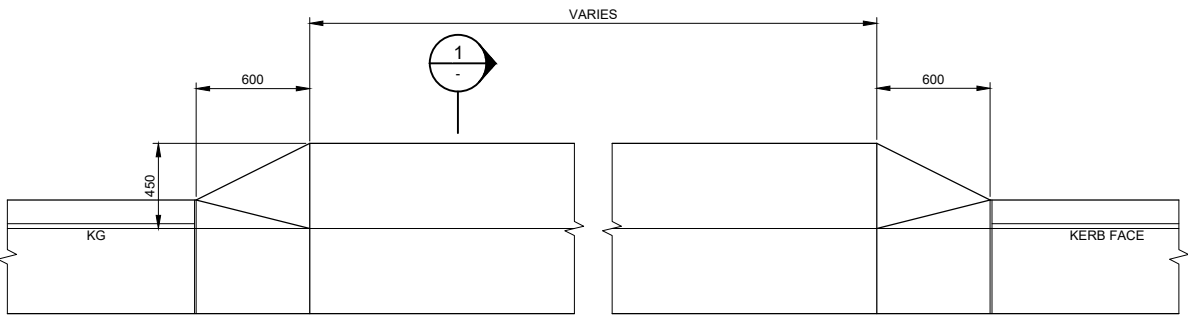
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SECTION 1

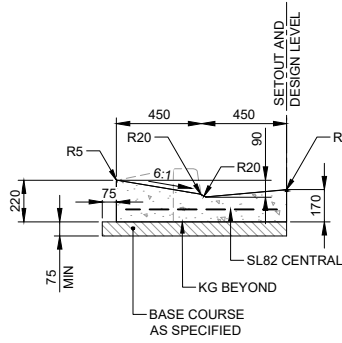
RAMPED PEDESTRIAN CROSSING - ON STRAIGHT

SCALE 1:20



NOTE
N32 CONCRETE. DO NOT USE KERB CONCRETE

PLAN



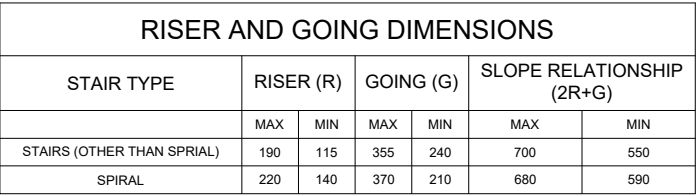
SECTION 1

VEHICULAR CROSSING

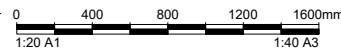
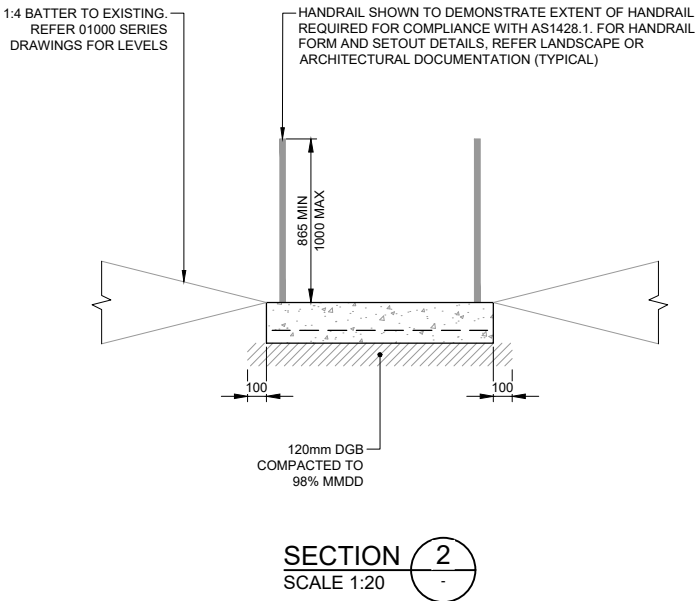
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NOT FOR CONSTRUCTION

									Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved																										
												School Infrastructure NSW						RICHMOND RIVER HIGH CAMPUS LISMORE, NSW INTERNAL CIVIL WORKS			PAVEMENT DETAILS SHEET 4			ARW			CG			GC																										
C ISSUED FOR REF SUBMISSION			CG JT 15.07.2025																					Project No			Originator			Func			Spat			Type			Role			Sheet No.			Rev											
B ISSUED FOR REF SUBMISSION			CG JT 20.06.2025																																																					
A 100% SCHEMATIC DESIGN			CG JHH 18.12.2024																																																					
Rev Description			Eng Draft Date			Rev Description			Eng Draft Date			Rev Description			Eng Draft Date																																									



1. CONCRETE STRENGTH TO BE 32MPa
2. REFER ARCHITECTURAL OR LANDSCAPE PLANS FOR SETOUT, LEVELS AND GEOMETRY (INCL RISER AND GOING LENGTHS).
3. FOR MINIMUM SLIP RESISTANCE OF STAIR TREADS AND LANDINGS REFER LANDSCAPE OR ARCHITECTURAL DOCUMENTATION.

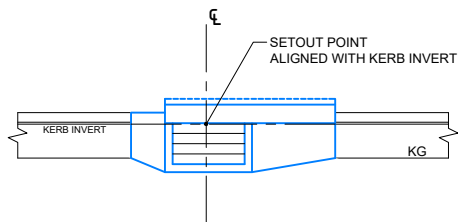


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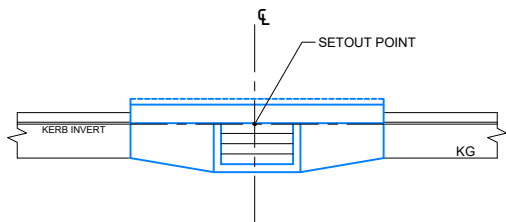
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C ISSUED FOR REF SUBMISSION CG JT 15.07.2025																		Project No Originator Func Spat Type Role Sheet No. Rev			RRHS-TTW-00-00-DR-C-03045-C 15.07.2025 5:32 PM		
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A 100% SCHEMATIC DESIGN CG JHH 18.12.2024																							
Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date

1. TO BE READ IN CONJUNCTION WITH GENERAL NOTES ON DRAWING 00002.
2. PIPES 300 DIA AND LARGER TO BE REINFORCED CONCRETE CLASS 4 APPROVED SPIGOT AND SOCKET WITH RUBBER RING JOINTS U.N.O.
3. PIPES UP TO 300 DIA MAY BE SEWER GRADE UPVC WITH SOLVENT WELDED JOINTS, SUBJECT TO APPROVAL BY THE ENGINEER
4. EQUIVALENT STRENGTH VCP OR FRP PIPES MAY BE USED SUBJECT TO APPROVAL.
5. PRECAST PITS MAY BE USED EXTERNAL TO THE BUILDING SUBJECT TO APPROVAL BY SUPERINTENDENT.
6. ENLARGERS, CONNECTIONS AND JUNCTIONS TO BE MANUFACTURED FITTINGS WHERE PIPES ARE LESS THAN 300 DIA.
7. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS, UNLOTTED UPVC SEWER GRADE PIPE IS TO BE USED.
8. GRATES AND COVERS SHALL CONFORM WITH AS 3996-2006, AND AS 1428.1 FOR ACCESS REQUIREMENTS.
9. PIPES ARE TO BE INSTALLED IN ACCORDANCE WITH AS 3725. ALL BEDDING TO BE TYPE H2 U.N.O.
10. CARE IS TO BE TAKEN WITH INVERT LEVELS OF STORMWATER LINES. GRADES SHOWN ARE NOT TO BE REDUCED WITHOUT APPROVAL.
11. ALL STORMWATER PIPES TO BE 150 DIA AT 1.0% MIN FALL U.N.O.
12. SUBSOIL DRAINS TO BE SLOTTED FLEXIBLE UPVC U.N.O.
13. ADOPT INVERT LEVELS FOR PIPE INSTALLATION (GRADES SHOWN ARE ONLY NOMINAL).
14. EXISTING STORMWATER INFRASTRUCTURE TO BE RETAINED U.N.O.
15. CONTRACTOR TO CONFIRM EXACT LOCATIONS AND EXTENTS OF SERVICES PRIOR TO CONSTRUCTION.
16. ALL PITS ARE TO BE FITTED WITH OCEAN PROTECT OCEAN-GUARDS OR APPROVED EQUIVALENT.
17. SURFACE WATER MUST BE DIVERTED AWAY FROM CLASS ONE BUILDINGS AS FOLLOWS:
 - A. SLAB ON GROUND- FINISHED GROUND LEVEL ADJACENT TO BUILDINGS: THE EXTERNAL FINISHED SURFACE SURROUNDING THE SLAB MUST BE DRAINED TO MOVE SURFACE WATER AWAY FROM BUILDINGS AND GRADED TO GIVE SLOPE OF NOT LESS THAN:
 - I. 25MM OVER THE FIRST 1 METRE FROM THE BUILDING FOR SURFACES THAT ARE REASONABLY IMPERMEABLE (SUCH AS CONCRETE OR CLAY PAVING); OR
 - II. 50MM OVER THE FIRST 1 METRE FROM THE BUILDING IN ANY OTHER CASE.
 - B. SLAB ON GROUND - FINISHED SLAB HEIGHTS: THE HEIGHT OF THE SLAB-ON-GROUND ABOVE EXTERNAL FINISHED SURFACES MUST NOT BE LESS THAN:
 - I. 100MM ABOVE FINISHED GROUND LEVEL IN AREAS OF SANDY, WELL-DRAINED AREAS; OR
 - II. 50MM ABOVE IMPERMEABLE (PAVED OR CONCRETE AREAS) THAT SLOPE AWAY FROM THE BUILDING IN ACCORDANCE WITH (A); OR
 - III. 150MM IN ANY OTHER CASE.
18. PIT GRATED INLET PITS LOCATED WITHIN FOOTPATHS ARE TO BE 'HEEL SAFE' AND 'ANTI-SLIP'.
19. PIT GRATES, U.N.O. ON THESE PLANS OR COUNCIL SPECIFICATIONS, ARE TO BE MINIMUM
 - CLASS D: FOR PUBLIC ROADS.
 - CLASS C: FOR TRAFFIC-ABLE AREAS OTHER THAN PUBLIC ROADS
 - CLASS B: FOR ALL OTHER AREAS.
20. STORMWATER PIPES TO BE INSTALLED OUTSIDE OF TPZ OF EXISTING TREES WHERE POSSIBLE. WHERE THIS CANNOT BE ACHIEVED, STORMWATER PIPES ARE TO BE INSTALLED USING NON-DESTRUCTIVE METHODS (CAREFULLY HAND DUG, HYDRO VAC, VERTICAL UNDER-BORING) TO RETAIN ANY MAJOR ROOTS 30MM OF GREATER IN DIAMETER. PIPES ARE TO BE THREADED THROUGH ROOTS.
21. PROVIDE GRATED DRAINS (GD) TO MANUFACTURER'S SPECIFICATIONS.
 - A. ALL GRATED DRAINS TO BE CLASS C GRATES IN TRAFFICABLE AREAS AND CLASS B GRATES IN NON TRAFFICABLE AREAS U.N.O.
 - B. ALL GRATED DRAINS LOCATED WITHIN FOOTPATHS TO HAVE 'HEEL-SAFE' AND 'ANTI-SLIP' GRATES'.
 - C. TOP OF GRATES TO BE FLUSH WITH SURROUNDING FINISHED SURFACE LEVELS.
 - D. INTERNAL FALL OF GRATED DRAINS TO BE DIRECTED TO PIPE CONNECTIONS AND STORMWATER PITS AND TO BE FREE DRAINING (NO TRAPPED LOW POINTS) WITH MINIMUM LONGITUDINAL GRADE OF 1%.

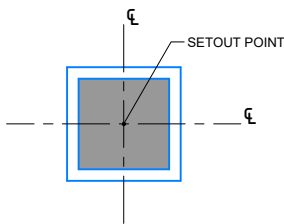
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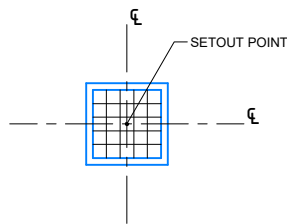
KERB INLET SUMP (KIS) ON GRADE



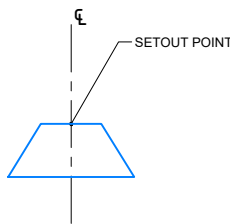
KERB INLET SUMP (KIS) IN SAG
SCALE 1:50



JUNCTION PIT
SCALE 1:50

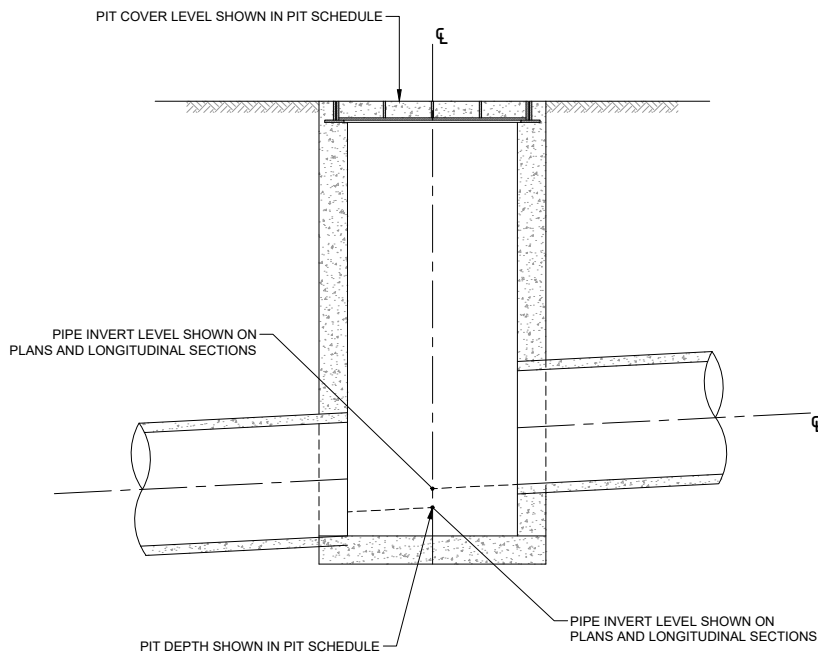


GRATED INLET SUMP
SCALE 1:50



HEADWALL
SCALE 1:50

EXISTING	EXHUMED OR ABANDONED	PROPOSED	
			Ø150 STORMWATER LINE WITH GRATED INLET SUMP AND PIPE END CAP
			Ø300 STORMWATER LINE WITH KERB INLET SUMP (KIS) ON GRADE (KIS) AND DIRECTIONAL FLOW ARROW
			Ø375 STORMWATER LINE WITH KERB INLET SUMP (KIS) IN SAG (KIS) AND HEADWALL
			Ø225 STORMWATER LINE WITH KERB GRATED INLET SUMP AND TRENCH DRAIN
			Ø450 STORMWATER LINE WITH JUNCTION PIT AND KERB INLET SUMP ON GRADE (KIS) FOR PIPES >THAN Ø450 UP TO Ø750
			DISH DRAIN WITH DISH DRAIN INLET SUMP (DDIS) AND FLOW DIRECTIONAL ARROWS



DESIGN INVERT LEVELS
AT STORMWATER STRUCTURES
SCALE 1:20

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and must not be used without authorisation.
THIS DRAWING IS TO BE READ IN CONJUNCTION
WITH ALL RELEVANT NOTES AND LEGENDS

1. ALL SUBSOIL DRAINAGE WORKS ARE TO BE COMPLETED IN ACCORDANCE WITH THE RELEVANT STANDARDS AND SPECIFICATIONS OUTLINED IN THE PROJECT SPECIFICATION.
2. WHERE SUBSOIL DRAINS PASS UNDER FLOOR SLABS AND VEHICULAR PAVEMENTS UNSLOTTED uPVC SEWER GRADE PIPE IS TO BE USED.
3. SUBSOIL DRAINS TO BE Ø100 SLOTTED FLEXIBLE uPVC UNLESS NOTED OTHERWISE.
4. ALL SUBSOIL DRAINS ARE TO BE AT MINIMUM 1% GRADE UNLESS NOTED OTHERWISE.
5. ALL SUBSOIL DRAINS TO BE RODDED PRIOR TO THE PLACEMENT OF ASPHALT.
6. ALL SUBSOIL DRAINS ARE DRAWN DIAGRAMMATICALLY FOR CLARITY. REFER TO TYPICAL DETAIL FOR SUBSOIL SETOUT.

	STORMWATER CULVERT
	SUBSOIL DRAINAGE LINE
	EXISTING STORMWATER CULVERT
	SWALE DRAIN
	GRATED DRAIN (GD)

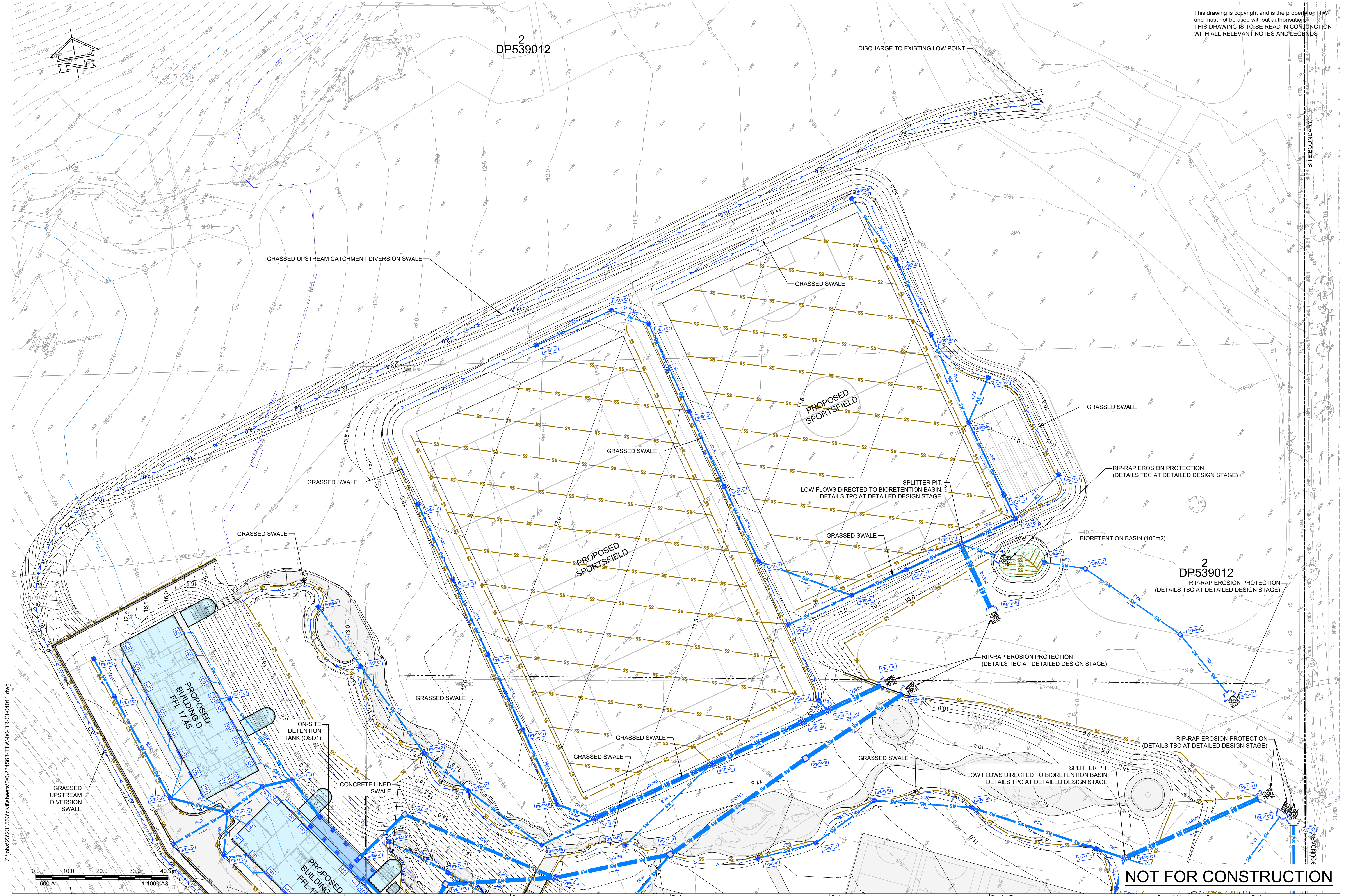
IL	PIPE INVERT LEVEL
OL	PIPE OBVERT LEVEL
CL	PIT COVER LEVEL
WL	WATER LEVEL
CLR	CLEARANCE

STORMWATER DRAINAGE NOTES AND LEGEND IS TO READ IN CONJUNCTION
WITH GENERAL NOTES AND LEGEND. REFER DRAWING No. 00002

						Client:			 School Infrastructure NSW			 Structural Civil Traffic Façade			Project: RICHMOND RIVER HIGH CAMPUS LISMORE, NSW INTERNAL CIVIL WORKS			Drawing Title: STORMWATER NOTES AND LEGEND			<table><tr><th>Scale at A1</th><th>Drawn</th><th>Designed</th><th>Approved</th></tr><tr><td>NTS</td><td>ARW</td><td>CG</td><td>GC</td></tr></table>			Scale at A1	Drawn	Designed	Approved	NTS	ARW	CG	GC
Scale at A1	Drawn	Designed	Approved																												
NTS	ARW	CG	GC																												
B ISSUED FOR REF SUBMISSION CG JT 15.07.2025																															
A 100% SCHEMATIC DESIGN CG JHH 18.12.2024																															
Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date																				

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F	100% SCHEMATIC DESIGN	CG	JHH	18.12.2024					
E	50%+ SCHEMATIC DESIGN	CG	JHH	06.12.2024					
D	50% SCHEMATIC DESIGN	CG	ES	15.11.2024					
C	MINOR AMENDMENTS	CG	ES	01.08.2024					
B	100% CONCEPT DESIGN	CG	ES	14.06.2024	H	ISSUED FOR REF SUBMISSION	CG	JT	15.07.2025
A	80% CONCEPT ISSUE	CG	ES	31.05.2024	G	ISSUED FOR REF SUBMISSION	CG	JT	20.06.2025
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date

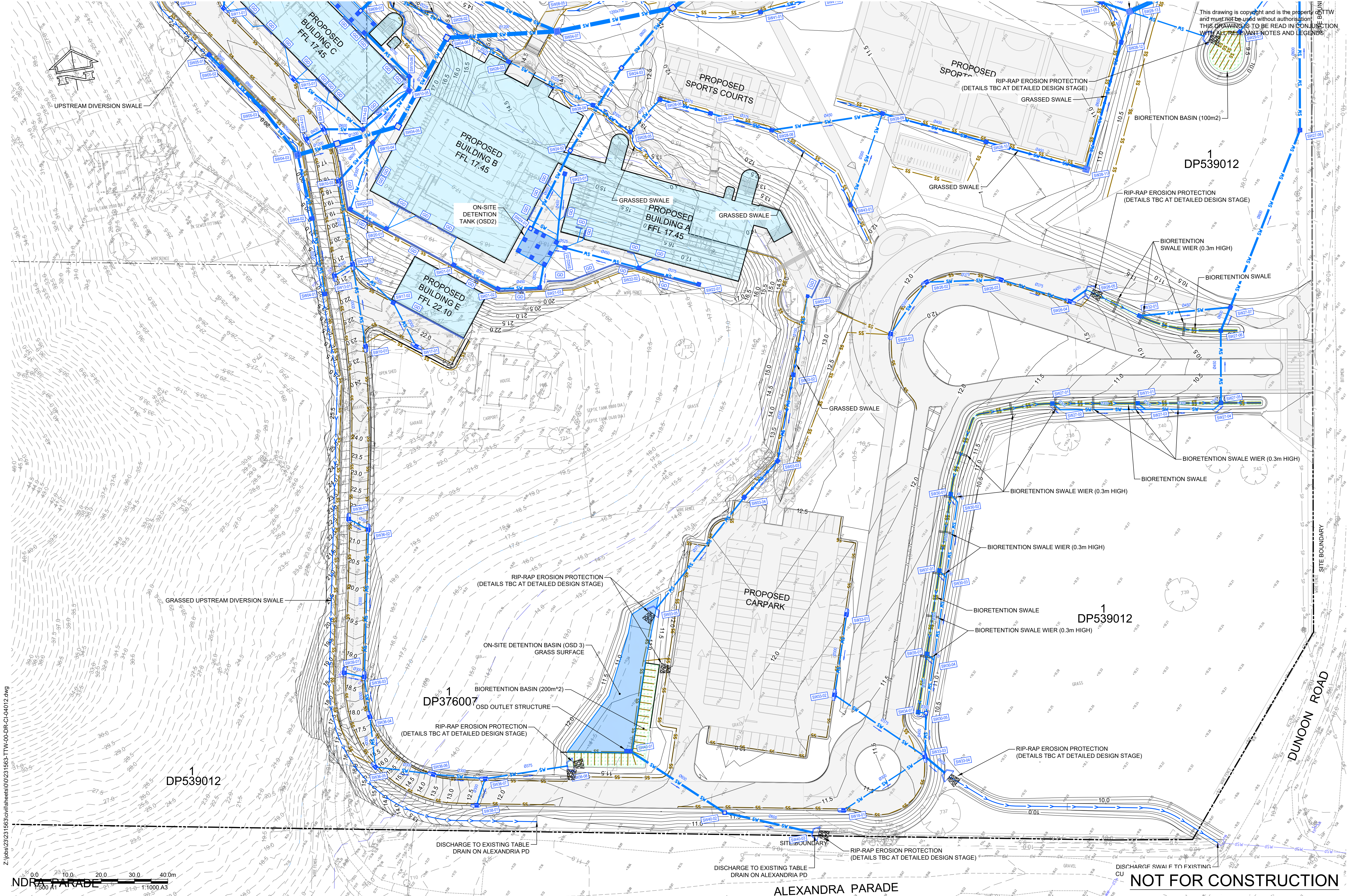
Client:  School Infrastructure NSW

Engineer:  Structural Civil Traffic Façade
612 9439 7288 | Level 6, 73 Miller Street, North Sydney, NSW 2060

Project: RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

Drawing Title: STORMWATER
AND SUBSOIL DRAINAGE
PLAN
SHEET 1

Scale at A1: 1:500
Project No: RRHS-TTW-00-00-DR-C-04011-H
15.07.2025 5:49 PM
Drawn: ARW
Designed: CG
Approved: GC
Project No: Originator Func Spat Type Role Sheet No. Rev



F 100% SCHEMATIC DESIGN CG JHH 18.12.2024										 School Infrastructure NSW  Structural Civil Traffic Façade 612 9439 7288 Level 6, 73 Miller Street, North Sydney, NSW 2060 Client: Engineer: Project: RICHMOND RIVER HIGH CAMPUS LISMORE, NSW INTERNAL CIVIL WORKS Drawing Title: STORMWATER AND SUBSOIL DRAINAGE PLAN SHEET 2 Scale at A1 1:500 Drawn ARW Designed CG Approved GC Project No Originator Func Spat Type Role Sheet No. Rev RRHS-TTW-00-00-DR-C-04012-H 15.07.2025 5:50 PM									
E 50%+ SCHEMATIC DESIGN CG JHH 06.12.2024																			
D 50% SCHEMATIC DESIGN CG ES 15.11.2024																			
C MINOR AMENDMENTS CG ES 01.08.2024																			
B 100% CONCEPT DESIGN CG ES 14.06.2024 H ISSUED FOR REF SUBMISSION CG JT 15.07.2025																			
A 80% CONCEPT ISSUE CG ES 31.05.2024 G ISSUED FOR REF SUBMISSION CG JT 20.06.2025																			
Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date	Rev	Description	Eng	Draft	Date					

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Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW01-01	GSIP 900x900	526307.388	6814948.392	0.9	0.9			225	11.308	11.986	0.678	
SW01-02	GSIP 900x900	526331.505	6814954.946	0.9	0.9	225	11.058	300	11.038	11.807	0.77	
SW01-03	GSIP 900x900	526341.935	6814948.98	0.9	0.9	300	10.953	300	10.933	11.786	0.853	
SW01-04	GSIP 900x900	526349.554	6814920.947	0.9	0.9	300	10.73	375	10.71	11.579	0.869	
SW01-05	GSIP 900x900	526356.111	6814896.822	0.9	0.9	375	10.535	450	10.497	11.4	0.903	
SW01-06	GSIP 900x900	526362.668	6814872.697	0.9	0.9	450	10.322	450	10.302	11.222	0.92	
SW01-07	GSIP 900x900	526388.433	6814857.968	0.9	0.9	450	10.094	525	10.037	11.015	0.978	
SW01-08	GSIP 900x900	526406.003	6814862.771	0.9	0.9	525	9.913	600	9.832	10.885	1.053	
SW01-09	GSIP 1500x1500	526423.572	6814867.571	1.5	1.5	600	9.71	(2x)600	9.537	10.754	1.217	
SW01-10	HEADWALL	526429.132	6814847.227	0	0	(2x)600	9.432		10.032		0.6	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW02-01	GSIP 900x900	526408.589	6814975.954	0.9	0.9			225	11.364	0.629		
SW02-02	GSIP 900x900	526418.856	6814955.453	0.9	0.9	225	10.506	300	10.482	11.236	0.753	
SW02-03	GSIP 900x900	526425.446	6814931.337	0.9	0.9	300	10.307	375	10.231	11.057	0.826	
SW02-04	GSIP 900x900	526432.047	6814903.492	0.9	0.9	375	10.031	450	9.915	10.994	1.079	
SW02-05	GSIP 900x900	526438.901	6814880.04	0.9	0.9	450	9.744	450	9.724	10.816	1.092	
SW02-06	GSIP 900x900	526441.142	6814872.372	0.9	0.9	450	9.668	600	9.648	10.629	0.981	
SW01-09	GSIP 1500x1500	526423.572	6814867.571	1.5	1.5	600	9.557		10.754	1.217		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW03-01	GSIP 600x600	526346.773	6814697.988	0.6	0.6			150	12.959	13.597	0.639	
SW03-02	GSIP 900x900	526338.587	6814675.485	0.9	0.9	150	12.524	300	12.389	13.157	0.767	
SW03-03	GSIP 900x900	526329.571	6814650.739	0.9	0.9	300	12.003	375	11.909	12.77	0.861	
SW03-04	GSIP 900x900	526317.855	6814641.675	0.9	0.9	375	11.64	375	11.506	12.471	0.965	
SW03-05	HEADWALL	526286.183	6814613.145	0	0	375	11.08		11.455	0.375		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW04-01	GSIP 900x900	526204.095	6814722.996	0.9	0.9			300	21.289	22.049	0.76	
SW04-02	GSIP 900x900	526204.422	6814745.993	0.9	0.9	300	20.078	600	19.594	20.798	1.203	
SW04-03	GSIP 1500x1500	526203.053	6814765.53	1.5	1.5	600	18.584	1200	15.623	19.744	4.121	
SW04-04	JUNCTION PIT - 1500x1500	526215.313	6814786.852	1.5	1.5	1200	15.006	1200	14.986	17.347	2.361	
SW04-05	JUNCTION PIT - 1500x1500	526234.198	6814768.887	1.5	1.5	1200	14.037	1200	14.017	17.416	3.399	
SW04-06	JUNCTION PIT - 1500x1500	526253.126	6814792.645	1.5	1.5	1200	12.384	1200	12.364	16.003	3.639	
SW04-07	GSIP 1500x1500	526286.067	6814788.98	1.5	1.5	1200	10.375	1200x750	10.355	12.032	1.677	
SW04-08	JUNCTION PIT - 1500x1500	526321.435	6814790.061	1.5	1.5	1200x750	10.178	1200x750	10.158	11.81	1.652	
SW04-09	JUNCTION PIT - 1500x1500	526366.567	6814811.79	1.5	1.5	1200x750	9.794	1200x750	9.774	11.353	1.579	
SW04-10	HEADWALL	526398.652	6814825.968	0	0	1200x750	9.599		10.349	0.75		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW05-01	GSIP 900x900	526181.94	6814799.641	0.9	0.9			600	18.633	19.919	1.286	
SW05-02	GSIP 1200x1200	526185.001	6814795.269	1.2	1.2	600	18.46	900	18.36	19.713	1.353	
SW05-03	GSIP 1200x1200	526195.323	6814780.523	1.2	1.2	900	18.18	900	18.16	19.834	1.674	
SW04-03	GSIP 1500x1500	526203.053	6814765.53	1.5	1.5	900	17.991		19.744	4.121		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW06-01	GSIP 900x900	526456.281	6814883.311	0.9	0.9			150	10.222	10.775	0.554	
SW02-06	GSIP 900x900	526441.142	6814872.372	0.9	0.9	150	10.035		10.629	0.981		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW07-01	GSIP 900x900	526264.195	6814907.11	0.9	0.9			300	11.404	12.157	0.753	
SW07-02	GSIP 900x900	526270.747	6814883.005	0.9	0.9	300	11.154	375	11.134	11.979	0.845	
SW07-03	GSIP 900x900	526277.304	6814858.88	0.9	0.9	375	10.959	525	10.822	11.8	0.978	
SW07-04	GSIP 900x900	526283.861	6814834.755	0.9	0.9	525	10.65	600	10.568	11.622	1.053	
SW07-05	GSIP 900x900	526290.418	6814810.63	0.9	0.9	600	10.393	600	10.373	11.443	1.07	
SW07-06	GSIP 1500x1500	526300.847	6814804.643	1.5	1.5	600	10.313	(2x)600	10.293	11.443	1.15	
SW07-07	GSIP 1500x1500	526338.243	6814814.808	1.5	1.5	(2x)600	10.1	(2x)600	10.08	11.166	1.087	
SW07-08	GSIP 1500x1500	526367.427	6814822.74	1.5	1.5	(2x)600	9.868	(2x)600	9.848	10.95	1.102	
SW07-09	GSIP 1500x1500	526375.64	6814824.972	1.5	1.5	(2x)600	9.788	(2x)600	9.768	11.117	1.349	
SW07-10	HEADWALL	526392.636	6814829.592	0	0	(2x)600	9.645		10.245	0.6		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW08-01	GSIP 900x900	526229.297	6814881.586	0.9	0.9			300	12.458	13.04	0.582	
SW08-02	GSIP 900x900	526238.848	6814861.801	0.9	0.9	300	12.019	375	11.944	12.786	0.843	
SW08-03	GSIP 900x900	526253.318	6814832.787	0.9	0.9	375	11.6	450	11.525	12.379	0.854	
SW08-04	GSIP 900x900	526264.623	6814819.239	0.9	0.9	450	11.349	450	11.329	12.212	0.883	
SW08-05	GSIP 900x900	526283.615	6814799.351	0.9	0.9	450	10.985	525	10.946	11.868	0.922	
SW07-06	GSIP 1500x1500	526300.847	6814804.643	1.5	1.5	525	10.474		11.443	1.15		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW09-01	PIPE CONNECTION - NO STRUCTURE	526232.528	6814807.407	0	0			900	14.5	16.831	2.331	
SW09-02	JUNCTION PIT - 1200x1200	526244.45	6814815.455	1.2	1.2	900	13.857	900	13.609	15.206	1.596	
SW04-07	GSIP 1500x1500	526286.067	6814788.98	1.5	1.5	900	10.458		12.032	1.677		
Pit				INTERNAL		INLET		OUTLET		PIT		
. Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW10-01	ROAD PIT	526213.524	6814705.408	0.835	0.93			300	22.174	23.093	0.92	
SW10-02	ROAD PIT	526213.837	6814730.358	0.835	0.93	300	20.358	375	19.779	21.188	1.41	
SW10-03	ROAD PIT	526213.837	6814755.69	0.835	0.93	375	17.245	600	16.233	18.041	1.809	

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SW10-04	GSIP 900x900	526225.853	6814765.281	0.9	0.9	600	16.079	600	16.059	17.231	1.172	
SW10-05	GSIP 1200x1200	526239.219	6814778.918	1.2	1.2	600	15.868	750	15.747	17.32	1.573	
SW10-06	GSIP 900x900	526240.074	6814783.05	0.9	0.9	750	15.704	750	15.684	17.397	1.713	
SW10-07	OUTFALL	526229.68	6814797.749	0	0	750	15.504			17.421	1.917	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW11-01	ROAD PIT	526188.595	6814812.645	0.835	0.93			450	15.799	17.023	1.224	
SW11-02	ROAD PIT - SAG	526191.831	6814825.003	0.835	0.93	450	15.671	750	15.433	17.185	1.752	
SW11-03	GSIP 900x900	526203.553	6814830.957	0.9	0.9	750	15.302	750	15.282	17.31	2.028	
SW11-04	GSIP 900x900	526212.727	6814831.557	0.9	0.9	750	15.19	750	15.17	17	1.83	
SW11-05	OUTFALL	526220.61	6814820.61	0	0	750	15.035			16.964	1.929	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW12-01	GSIP 900x900	526159.877	6814877.595	0.9	0.9			450	16.152	17.044	0.892	
SW12-02	GSIP 900x900	526164.171	6814865.124	0.9	0.9	450	16.02	525	16	17.171	1.171	
SW12-03	GSIP 900x900	526175.484	6814832.268	0.9	0.9	525	15.652	600	15.632	17.248	1.616	
SW11-02	ROAD PIT - SAG	526191.831	6814825.003	0.835	0.93	600	15.453			17.185	1.752	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW13-01	ROAD PIT	526207.837	6814727.894	0.835	0.93			300	20.538	21.296	0.759	
SW10-02	ROAD PIT	526213.837	6814730.358	0.835	0.93	300	20.461			21.188	1.41	</

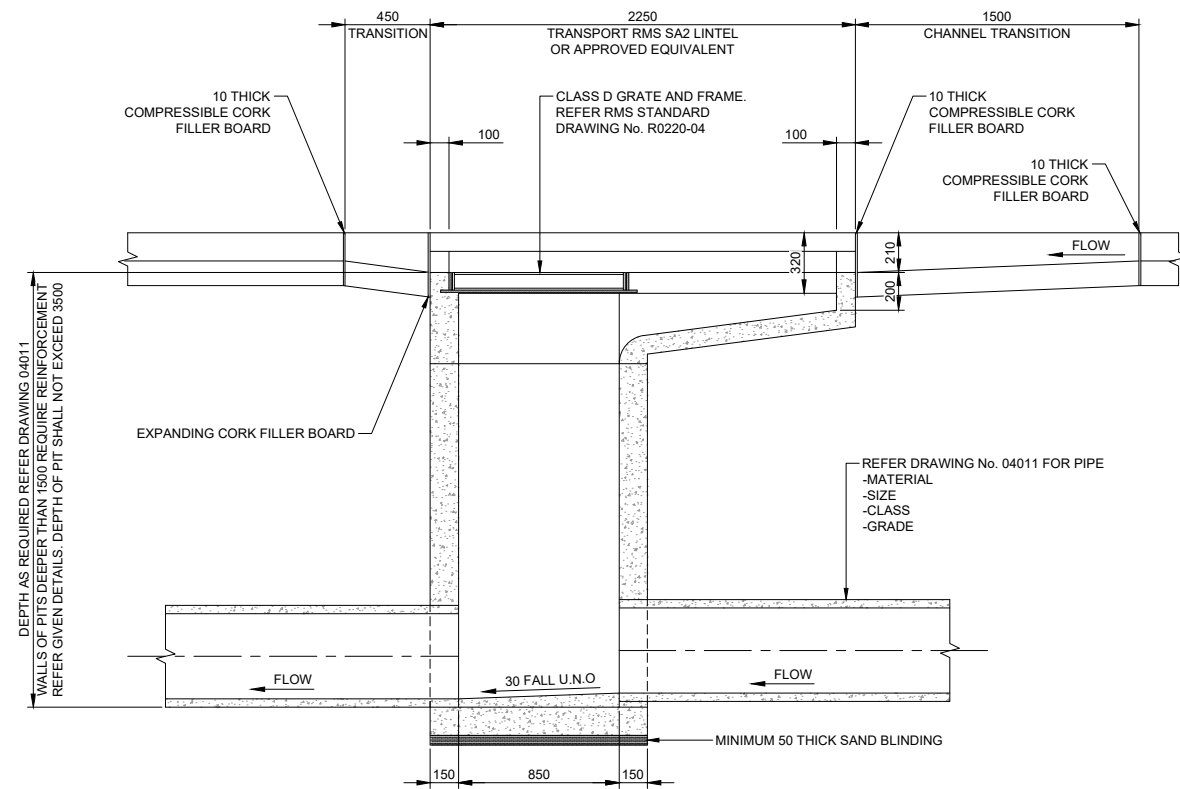
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Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW24-01	PIPE CONNECTION - NO STRUCTURE	526268.881	6814732.304	0	0			600	14.4	17.402	3.002	
SW24-02	JUNCTION PIT - 900x900	526283.937	6814753.056	0.9	0.9	600	12.349	600	12.329	14.317	1.988	
SW24-03	JUNCTION PIT - 900x900	526303.232	6814774.899	0.9	0.9	600	11.257	600	11.237	12.458	1.221	
SW04-08	JUNCTION PIT - 1500x1500	526321.435	6814790.061	1.5	1.5	600	10.526			11.81	1.652	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW25-01	GSIP 900x900	526198.237	6814858.841	0.9	0.9			300	16.624	17.378	0.754	
SW11-04	GSIP 900x900	526212.727	6814831.557	0.9	0.9	300	16.006			17	1.83	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW26-01	ROAD PIT	526369.4	6814682.62	0.835	0.93			300	11.151	11.867	0.715	
SW26-02	ROAD PIT	526382.651	6814696.157	0.835	0.93	300	10.938	375	10.918	11.759	0.841	
SW26-03	ROAD PIT	526404.792	6814693.103	0.835	0.93	375	10.762	375	10.742	11.61	0.868	
SW26-04	ROAD PIT	526424.095	6814683.223	0.835	0.93	375	10.538	450	10.518	11.396	0.878	
SW26-05	HEADWALL	526429.565	6814685.76	0	0	450	10.488	Channel682.640 208	10.468	11.15	0.683	
SW32-01	GSIP 900x900	526443.899	6814675.419	0.9	0.9					10.282	0.755	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW27-01	GSIP 900x900	526413.75	6814653.867	0.9	0.9			300	10.085	10.796	0.71	
SW27-02	PIPE CONNECTION - NO STRUCTURE	526415.762	6814651.655	0	0	300	10.056	300	10.056	11.197	1.141	
SW27-03	PIPE CONNECTION - NO STRUCTURE	526440.982	6814647.443	0	0	300	9.518	300	9.518	10.659	1.141	
SW27-04	PIPE CONNECTION - NO STRUCTURE	526461.29	6814644.051	0	0	300	9.106	300	9.106	10.238	1.131	
SW27-05	GSIP 900x900	526463.625	6814645.537	0.9	0.9	300	9	450	8.98	9.777	0.797	
SW27-06	GSIP 900x900	526467.226	6814666.936	0.9	0.9	450	8.828	600	8.808	9.765	0.957	
SW27-07	GSIP 900x900	526471.23	6814673.364	0.9	0.9	600	8.755	600	8.735	10.52	1.785	
SW27-08	GSIP 900x900	526500.763	6814722.274	0.9	0.9	600	8.335	600	8.315	9.609	1.294	
SW27-09	HEADWALL	526508.278	6814767.271	0	0	600	7.996			8.596	0.6	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW28-01	GSIP 900x900	526238.392	6814808.272	0.9	0.9			225	15.543	16.231	0.687	
SW28-02	GSIP 900x900	526254.536	6814795.911	0.9	0.9	225	14.867	225	14.792	15.52	0.728	
SW28-03	GSIP 900x900	526270.122	6814782.51	0.9	0.9	225	13.917	225	13.897	14.6	0.703	
SW28-04	GSIP 900x900	526292.959	6814765.334	0.9	0.9	225	12.897	300	12.812	13.465	0.653	
SW28-05	GSIP 900x900	526302.537	6814755.566	0.9	0.9	300	12.128	375	11.792	12.906	1.114	
SW28-06	GSIP 900x900	526313.039	6814763.603	0.9	0.9	375	11.131	375	11.075	11.903	0.828	
SW28-07	GSIP 900x900	526327.272	6814756.967	0.9	0.9	375	10.965	375	10.945	11.791	0.846	
SW28-08	GSIP 900x900	526344.533	6814748.917	0.9	0.9	375	10.754	450	10.734	11.653	0.919	
SW28-09	GSIP 900x900	526378.107	6814748.254	0.9	0.9	450	10.398	450	10.378	11.395	1.016	
SW28-10	GSIP 900x900	526407.337	6814734.624	0.9	0.9	450	10.153	450	10.133	11.165	1.032	
SW28-11	GSIP 900x900	526435.611	6814721.439	0.9	0.9	450	9.914	600	9.892	10.942	1.05	
SW28-12	GSIP 900x900	526452.332	6814757.298	0.9	0.9	600	9.584	600	9.552	10.618	1.066	
SW28-13	JUNCTION PIT - 1500x1500	526456.356	6814765.926	1.5	1.5	600	9.485	(2x)600	9.319	10.605	1.286	
SW28-14	HEADWALL	526499.119	6814776.824	0	0	(2x)600	8.061		8.661		0.6	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW29-01	GSIP 900x900	526487.903	6814754.356	0.9	0.9			300	8.3	9.402	1.102	
SW29-02	HEADWALL	526504.625	6814770.339	0	0	300	8.069			8.369	0.3	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW30-01	GSIP 900x900	526379.097	6814632.196	0.9	0.9			300	10.585	11.287	0.703	
SW30-02	PIPE CONNECTION - NO STRUCTURE	526380.698	6814629.536	0	0	300	10.563	300	10.563	11.713	1.15	
SW30-03	PIPE CONNECTION - NO STRUCTURE	526373.534	6814607.71	0	0	300	10.402	300	10.402	11.552	1.151	
SW30-04	PIPE CONNECTION - NO STRUCTURE	526365.737	6814583.957	0	0	300	10.177	300	10.177	11.325	1.147	
SW30-05	JUNCTION PIT - 900x900	526360.703	6814568.62	0.9	0.9	300	10.064	450	10.044	11.163	1.119	
SW33-03	ROAD PIT - SAG	526358.301	6814555.809	0.835	0.93	450	9.979		11.162	1.183		
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW31-01	GSIP 900x900	526438.066	6814649.656	0.9	0.9			300	9.548	10.259	0.71	
SW27-03	PIPE CONNECTION - NO STRUCTURE	526440.982	6814647.443	0	0	300	9.518			10.659	1.141	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW32-01	GSIP 900x900	526443.899	6814675.419	0.9	0.9			450	9.528	10.282	0.755	
SW27-07	GSIP 900x900	526471.23	6814673.364	0.9	0.9	450	8.979			10.52	1.785	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW33-01	ROAD PIT	526342.226	6814601.879	0.835	0.93			300	10.946	11.737	0.791	
SW33-02	ROAD PIT - SAG	526334.605	6814578.661	0.835	0.93	300	10.717	375	10.697	11.501	0.804	
SW33-03	ROAD PIT - SAG	526358.301	6814555.809	0.835	0.93	375	10.145	600	9.979	11.162	1.183	
SW33-04	HEADWALL	526363.285	6814549.991	0	0	600	9.919			10.519	0.6	setout level to maximum pipe obvert
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW34-01	GSIP 900x900	526358.47	6814569.353	0.9	0.9			300	10.061	10.723	0.662	
SW30-05	JUNCTION PIT - 900x900	526360.703	6814568.62	0.9	0.9	300	10.044			11.163	1.119	

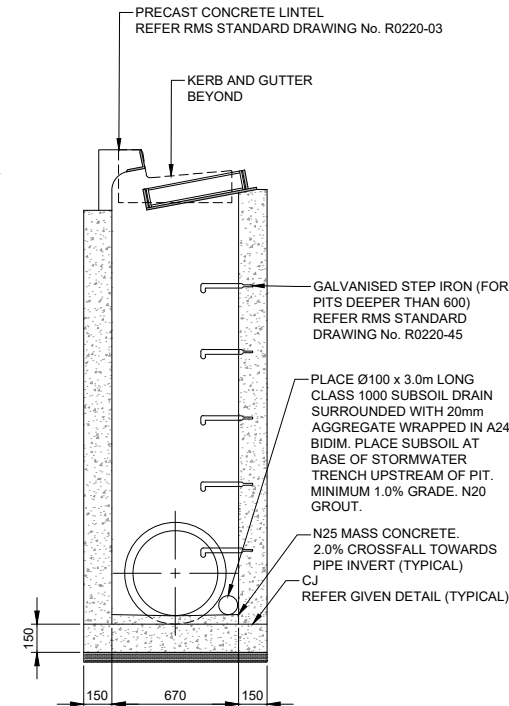
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Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW35-01	GSIP 900x900	526363.986	6814586.159	0.9	0.9			300	10.197	11.2	1.003	
SW30-04	PIPE CONNECTION - NO STRUCTURE	526365.737	6814583.957	0	0	300	10.177			11.325	1.147	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW36-01	ROAD PIT	526199.768	6814655.259	0.835	0.93			300	20.779	21.544	0.765	
SW36-02	ROAD PIT	526205.064	6814651.124	0.835	0.93	300	20.52	300	20.161	21.244	1.083	
SW36-03	ROAD PIT	526196.435	6814607.688	0.835	0.93	300	17.577	300	17.557	18.595	1.038	
SW36-04	ROAD PIT	526196.093	6814595.671	0.835	0.93	300	16.355	300	16.335	17.837	1.501	
SW36-05	ROAD PIT	526195.175	6814580.522	0.835	0.93	300	14.817	300	14.654	16.004	1.35	
SW36-06	ROAD PIT	526211.931	6814575.41	0.835	0.93	300	12.902	300	12.571	13.763	1.192	
SW36-07	ROAD PIT	526227.032	6814571.504	0.835	0.93	300	11.479	375	11.369	12.125	0.756	
SW36-08	HEADWALL	526252.123	6814571.108	0	0	375	11.2			11.575	0.375	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW37-01	GSIP 900x900	526371.854	6814610.129	0.9	0.9			300	10.422	11.425	1.002	
SW30-03	PIPE CONNECTION - NO STRUCTURE	526373.534	6814607.71	0	0	300	10.402			11.552	1.151	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW38-01	ROAD PIT	526223.171	6814564.084	0.835	0.93			300	11.525	12.278	0.753	
SW36-07	ROAD PIT	526227.032	6814571.504	0.835	0.93	300	11.389			12.125	0.756	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW39-01	ROAD PIT	526190.737	6814609.952	0.835	0.93			300	17.9	18.8	0.901	
SW36-03	ROAD PIT	526196.435	6814607.688	0.835	0.93	300	17.855			18.595	1.038	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW40-01	GSIP 900x900	526271.427	6814572.261	0.9	0.9			600	10.4	11.3	0.9	
SW40-02	JUNCTION PIT - 900x900	526296.165	6814549.362	0.9	0.9	600	10.231	600	10.211	11.793	1.582	
SW40-03	HEADWALL	526321.295	6814539.029	0	0	600	10.066			10.666	0.6	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW41-01	GSIP 900x900	526347.116	6814784.406	0.9	0.9			300	10.659	11.395	0.736	
SW41-02	GSIP 900x900	526365.376	6814786.136	0.9	0.9	300	10.456	375	10.43	11.25	0.82	
SW41-03	GSIP 900x900	526384.852	6814795.74	0.9	0.9	375	10.213	450	10.193	11.114	0.921	
SW41-04	GSIP 900x900	526413.474	6814788.739	0.9	0.9	450	9.802	600	9.602	10.685	1.083	
SW41-05	GSIP 900x900	526448.56	6814770.073	0.9	0.9	600	9.403	600	9.383	10.448	1.065	
SW28-13	JUNCTION PIT - 1500x1500	526456.356	6814765.926	1.5	1.5	600	9.339			10.605	1.286	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW42-01	GSIP 900x900	526368.176	6814852.433	0.9	0.9			375	10.292	11.072	0.78	
SW01-07	GSIP 900x900	526388.433	6814857.968	0.9	0.9	375	10.082			11.015	0.978	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW43-01	GSIP 900x900	526364.033	6814722.861	0.9	0.9			300	10.996	11.71	0.714	
SW28-09	GSIP 900x900	526378.107	6814748.254	0.9	0.9	300	10.69			11.395	1.016	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW44-01	GSIP 900x900	526308.229	6814795.054	0.9	0.9			300	10.849	11.574	0.725	
SW07-07	GSIP 1500x1500	526338.243	6814814.808	1.5	1.5	300	10.446			11.166	1.087	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW45-01	GSIP 900x900	526447.514	6814857.921	0.9	0.9			300	8.788	9.775	0.987	
SW45-02	JUNCTION PIT - 900x900	526459.335	6814854.049	0.9	0.9	300	8.663	300	8.643	9.671	1.027	
SW45-03	JUNCTION PIT - 900x900	526464.282	6814829.608	0.9	0.9	300	8.399	300	8.379	9.47	1.091	
SW45-04	HEADWALL	526495.209	6814809.882	0	0	300	8.221			8.521	0.3	
Pit				INTERNAL		INLET		OUTLET		PIT		
Name	TYPE	EASTING	NORTHING	WD	LEN	DIA	INV LEV	DIA	INV LEV	SETOUT RL	DEPTH	REMARKS
SW46-01	GSIP 900x900	526373.313	6814828.373	0.9	0.9			375	10.123	10.9	0.777	
SW07-09	GSIP 1500x1500	526375.64	6814824.972	1.5	1.5	375	10.082			11.117	1.349	

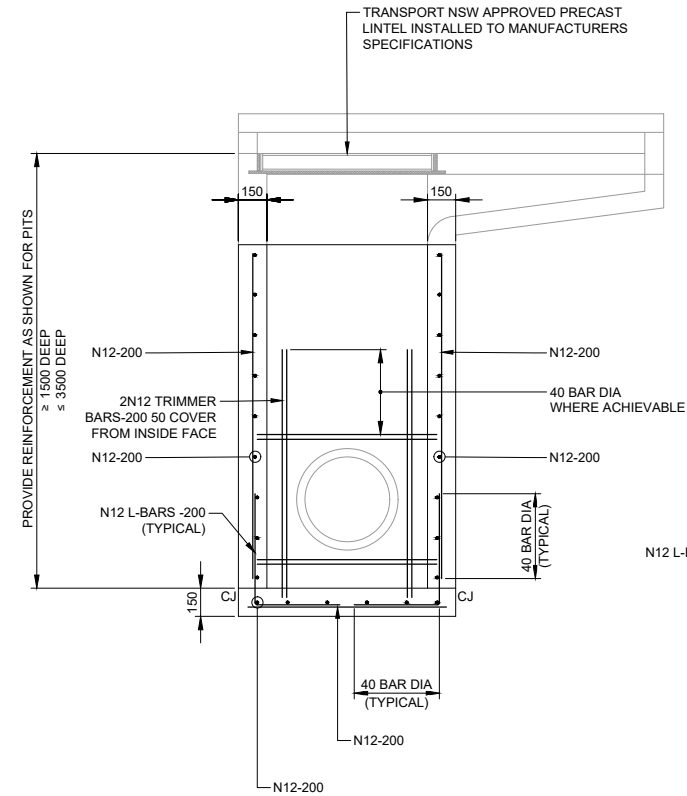
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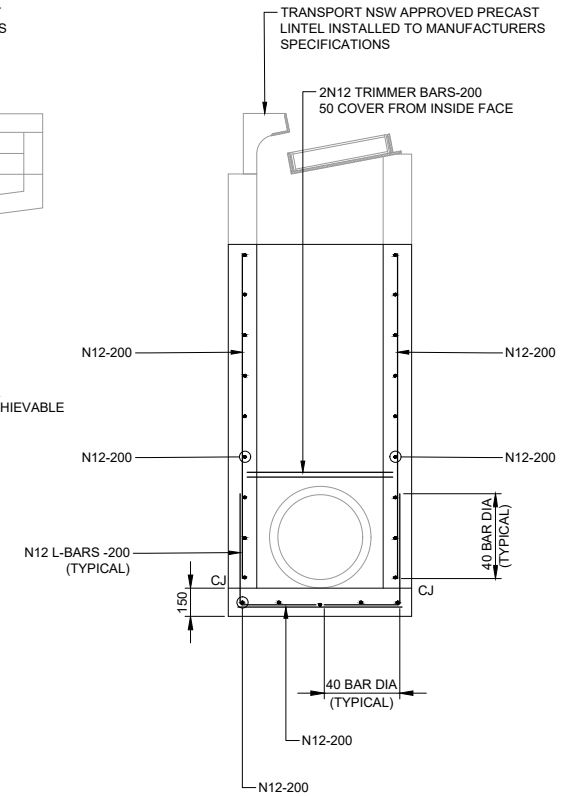
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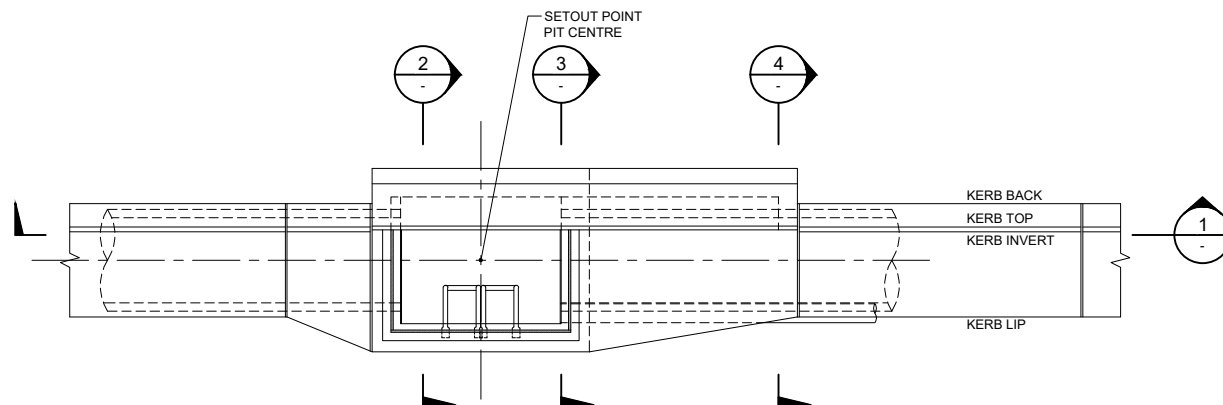
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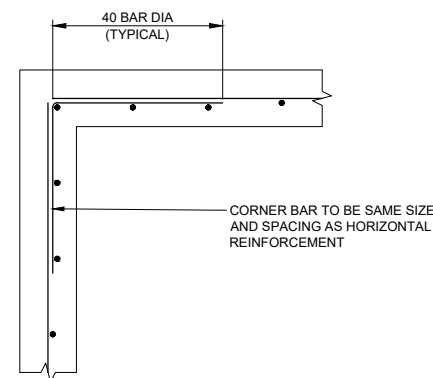
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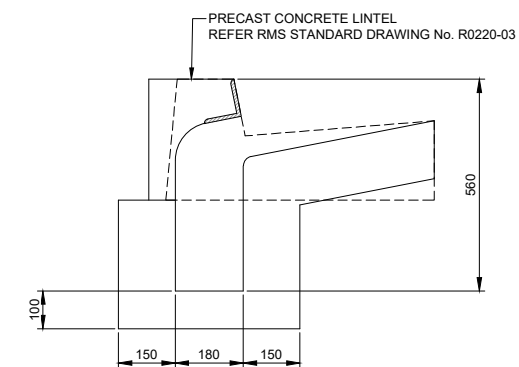
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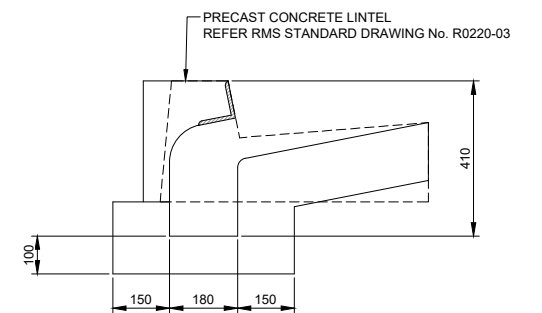
KERB INLET PIT (KIS) ON GRADE
FOR PIPES UP TO Ø450
SCALE 1:20



PLAN
CORNER BAR - SINGLE LAYER
SCALE 1:10



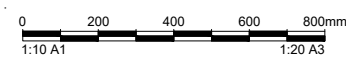
SECTION 3
SCALE 1:10



SECTION 4
SCALE 1:10

NOTES

1. CONCRETE STRENGTH 25MPa.
2. SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED IN ACCORDANCE WITH GIVEN DETAIL.
3. STEP IRONS ARE REQUIRED WHERE PITS ARE DEEPER THAN 1200.
4. REFER DRAWING No. 00002 FOR CONCRETE NOTES



Client:	
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School Infrastructure NSW

Engineer



Project:

Project:
RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

Drawing Title:

Drawing Title:
**STORMWATER
DETAILS
SHEET 1**

Scale at A1

Drawn

Designed

Approved

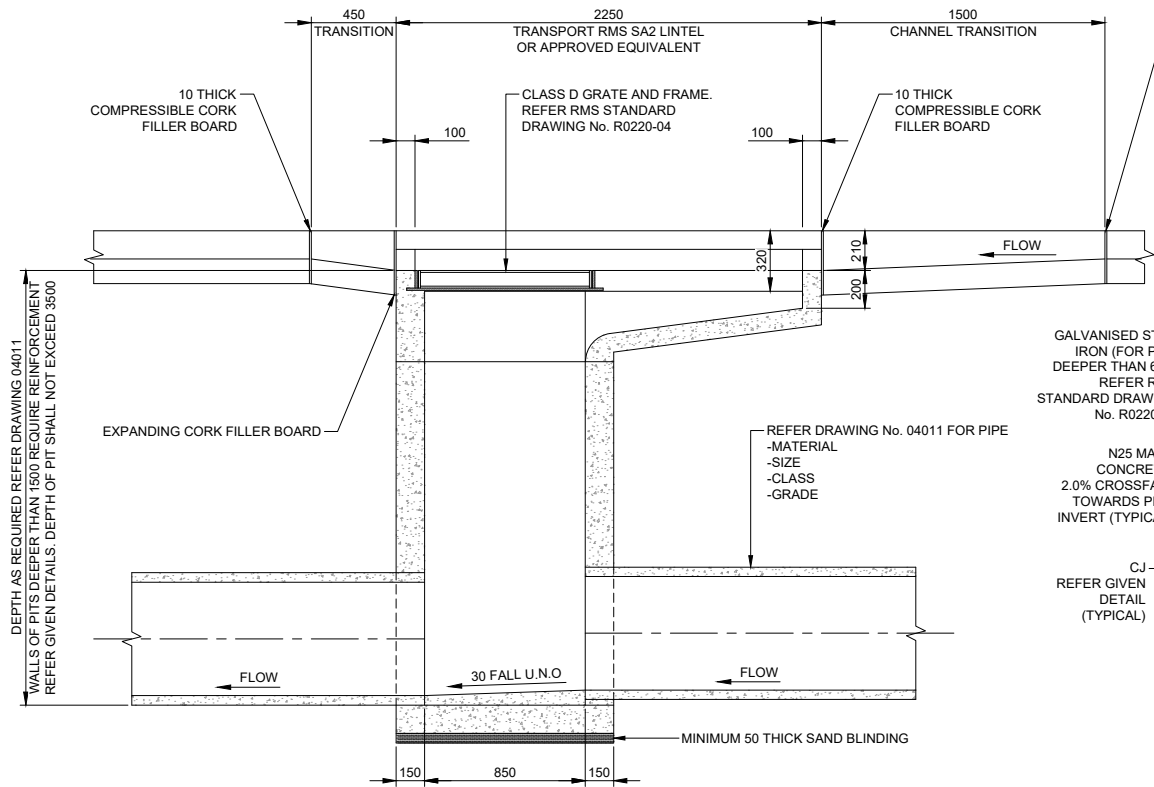
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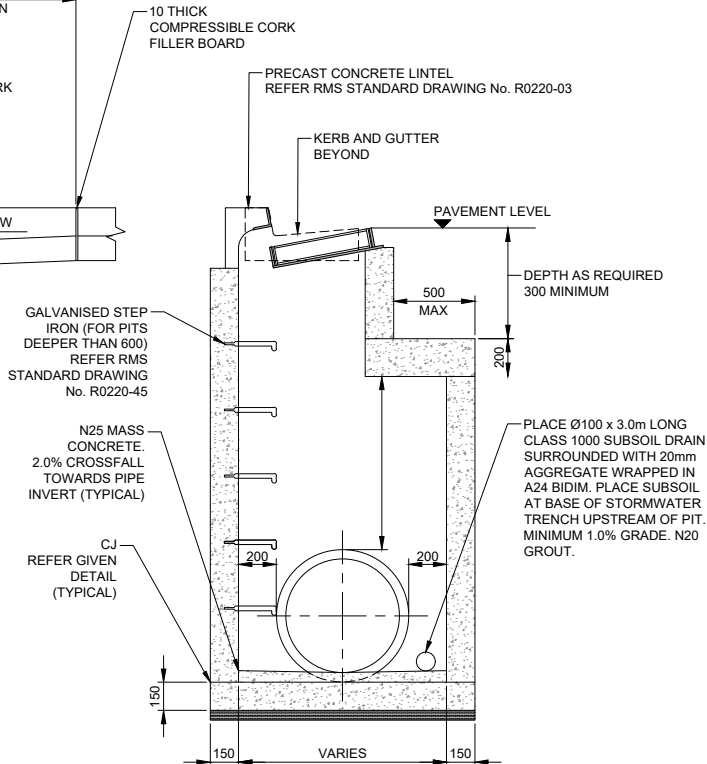
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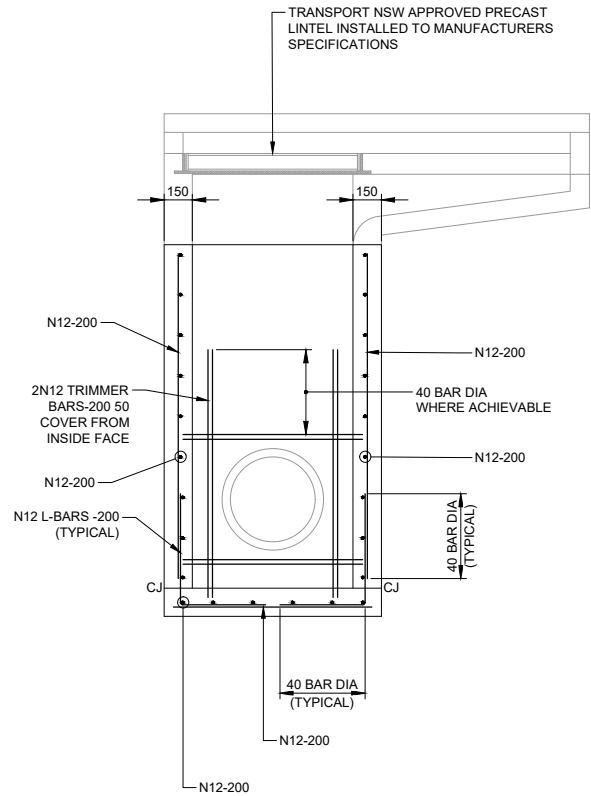
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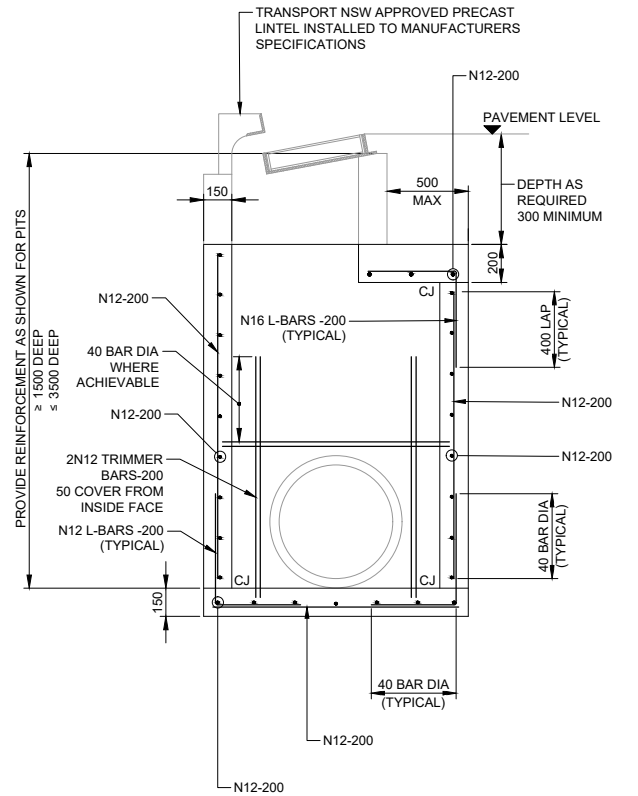
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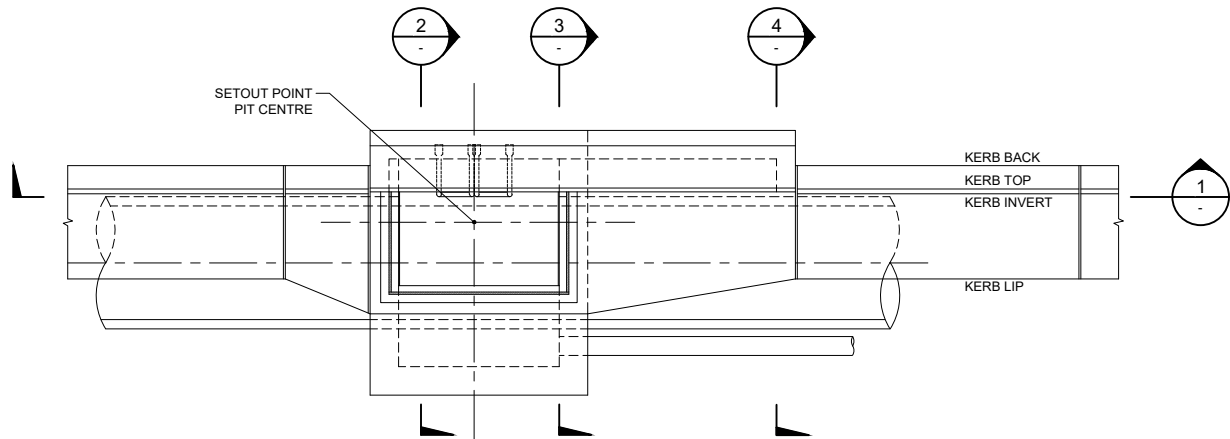
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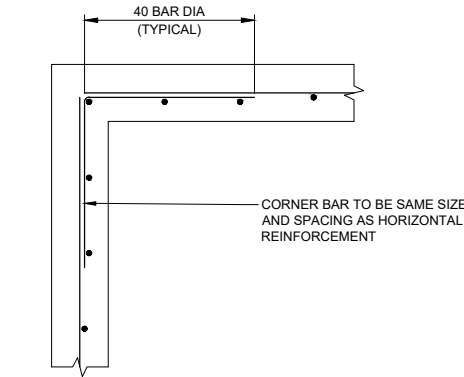
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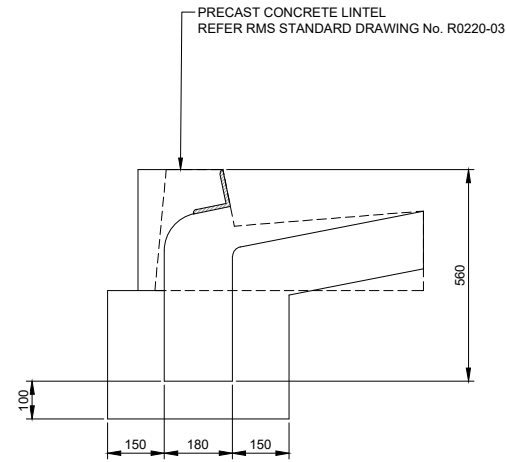
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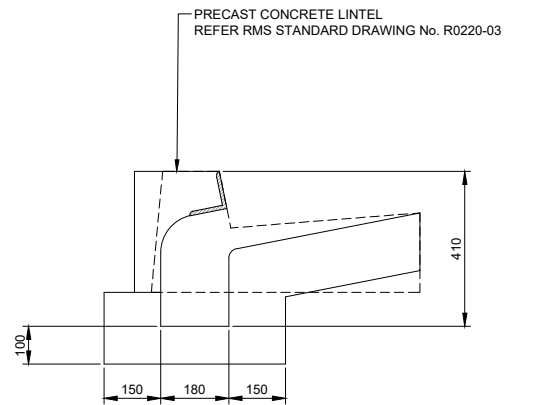
Kerb Inlet Pit (KIS) on Grade
for Pipes > Ø450 up to Ø750
SCALE 1:20



PLAN
Corner Bar - Single Layer
SCALE 1:10



SECTION 3
SCALE 1:10



SECTION 4
SCALE 1:10

NOTES

- CONCRETE STRENGTH 25MPa.
- SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED IN ACCORDANCE WITH GIVEN DETAIL.
- STEP IRONS ARE REQUIRED WHERE PITS ARE DEEPER THAN 1200.
- REFER DRAWING No. 00002 FOR CONCRETE NOTES

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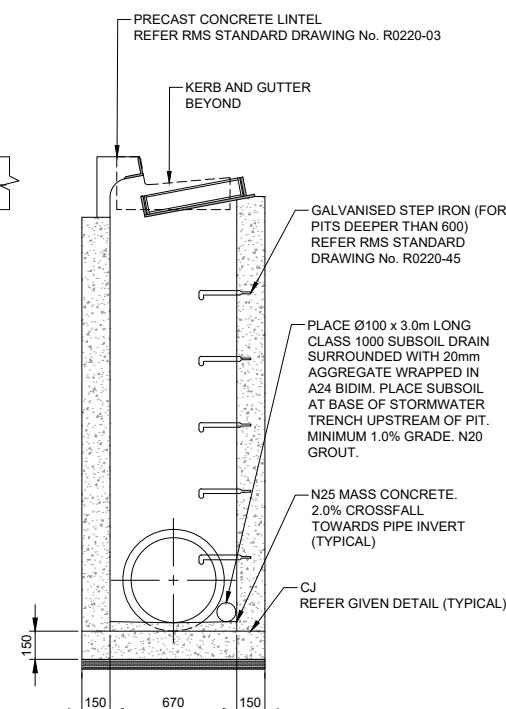
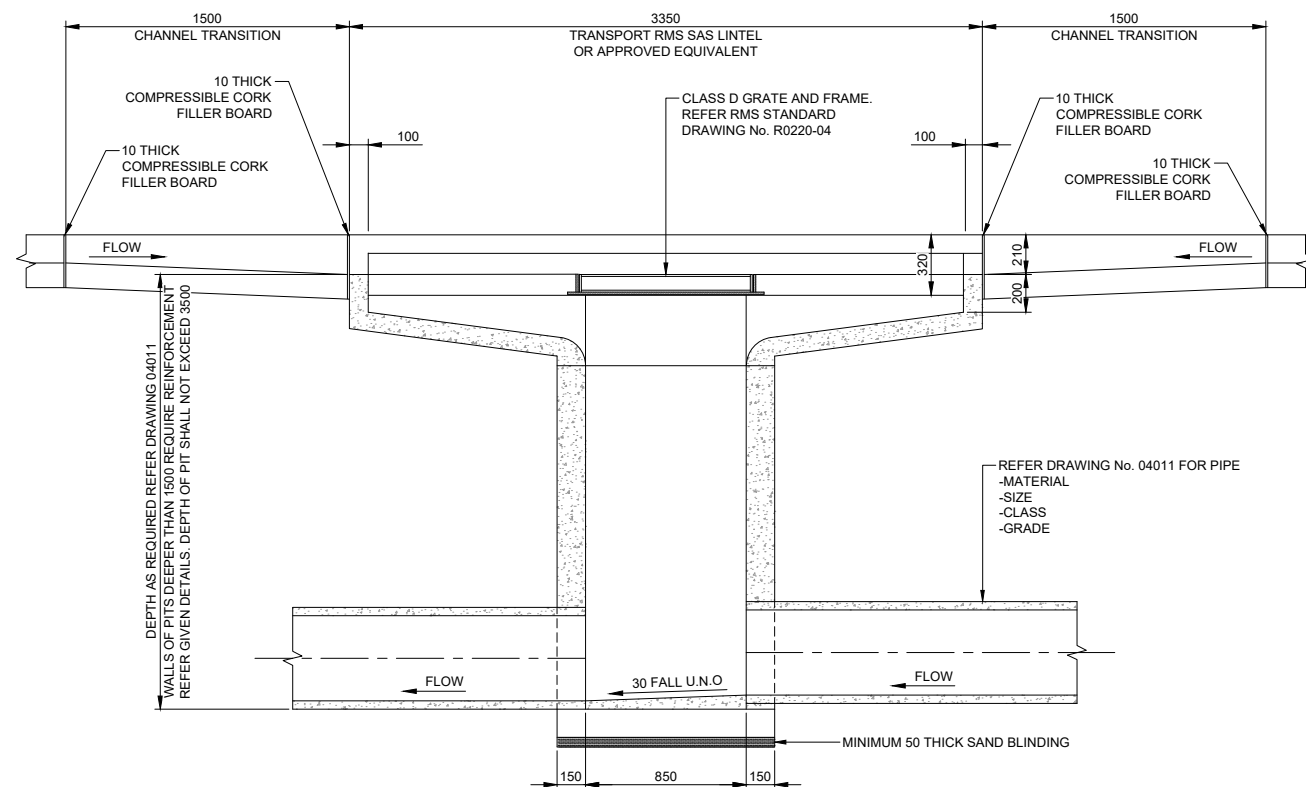
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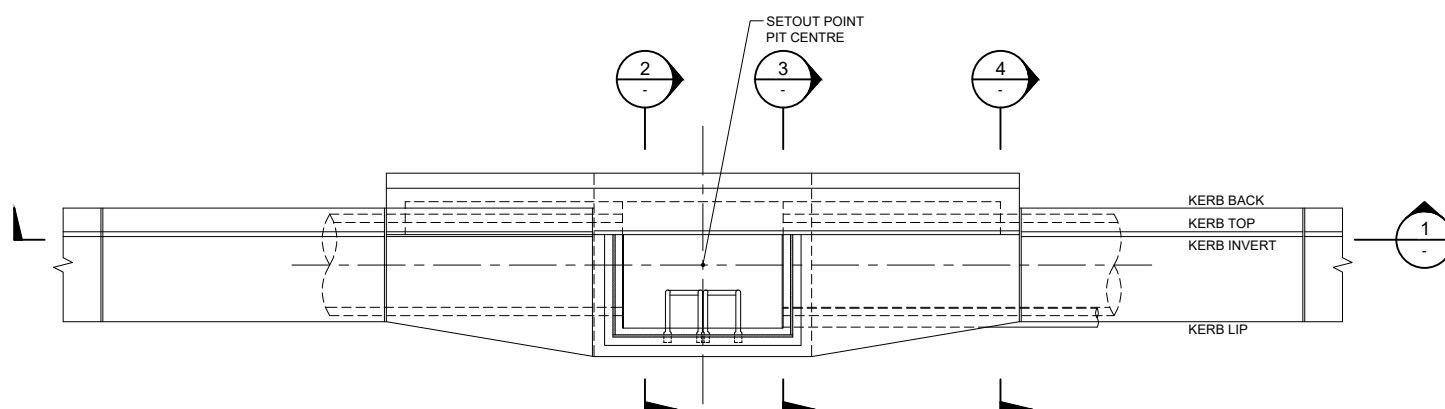
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C ISSUED FOR REF SUBMISSION			CG JT 15.07.2025									612 9439 7288 Level 6, 73 Miller Street, North Sydney, NSW 2060						Project No			Originator			Func			Spat			Role			Sheet No.			Rev		
B ISSUED FOR REF SUBMISSION			CG JT 20.06.2025															RRHS-TTW-00-00-DR-C-04052-C																				
A 100% SCHEMATIC DESIGN			CG JHH 18.12.2024															15.07.2025 5:55 PM																				
Rev Description			Eng Draft Date			Rev Description			Eng Draft Date																													

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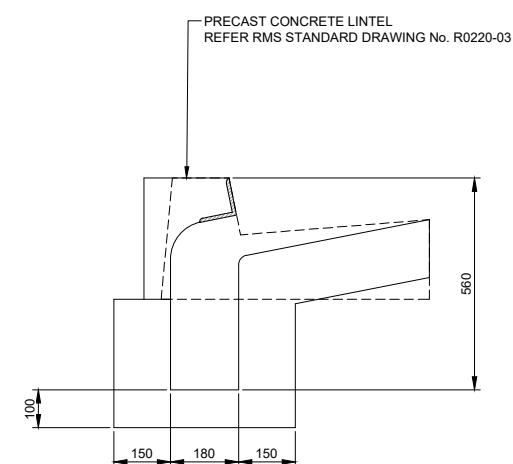
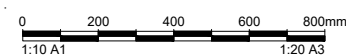
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SECTION 2
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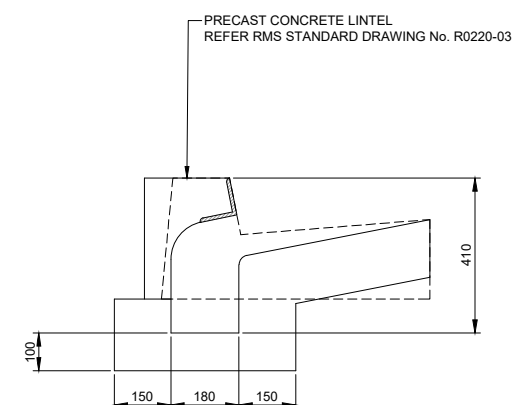


KERB INLET PIT (KIS) IN SAG
FOR PIPES UP TO Ø450
SCALE 1:20

- ## NOTES
1. CONCRETE STRENGTH 25MPa.
 2. SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED IN ACCORDANCE WITH GIVEN DETAIL.
 3. STEP IRONS ARE REQUIRED WHERE PITS ARE DEEPER THAN 1200.
 4. REFER DRAWING No. 00002 FOR CONCRETE NOTES



SECTION 3
SCALE 1:10



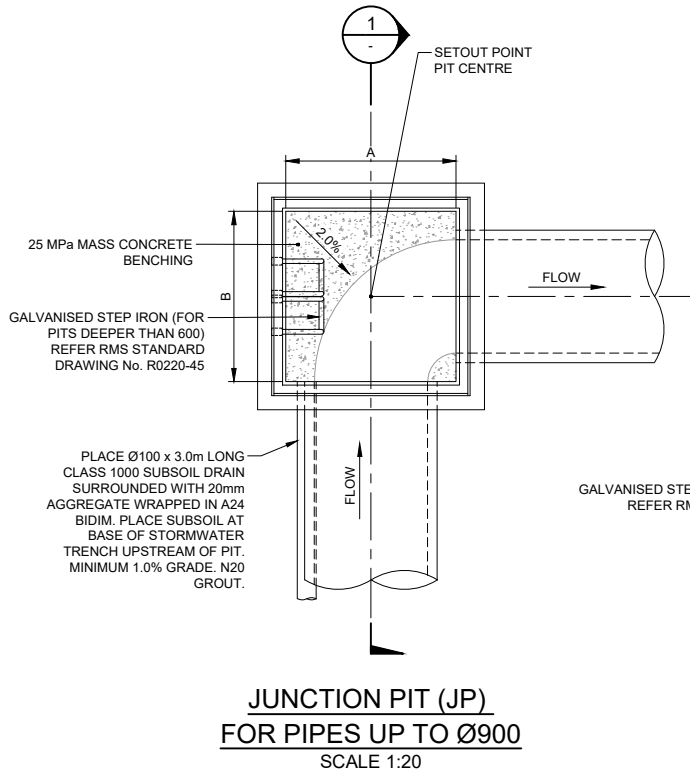
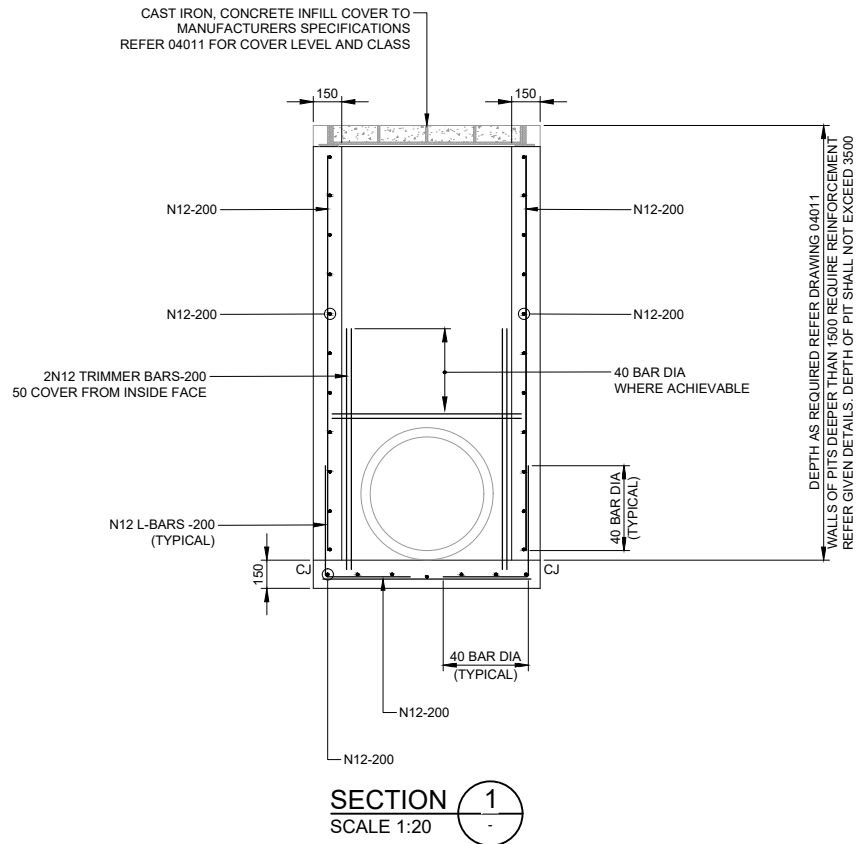
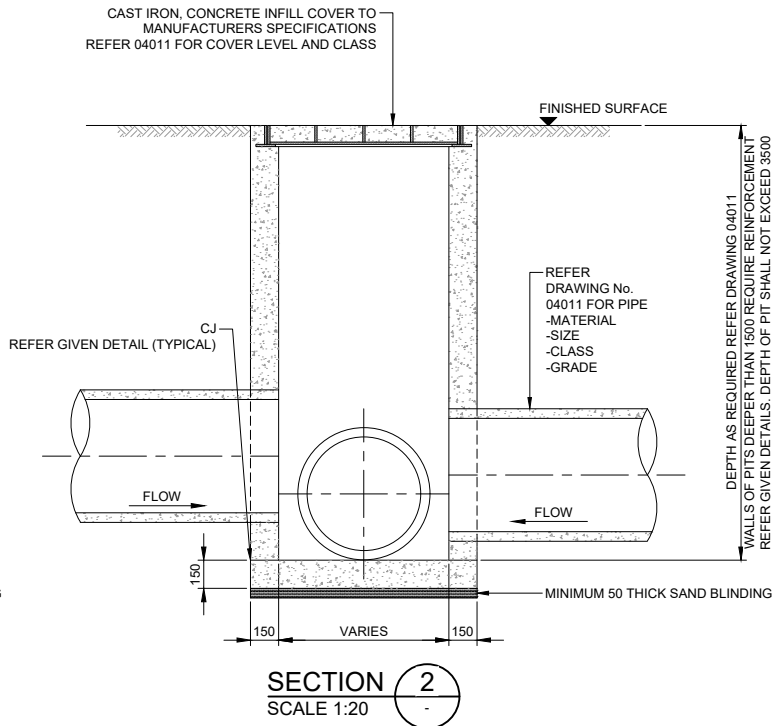
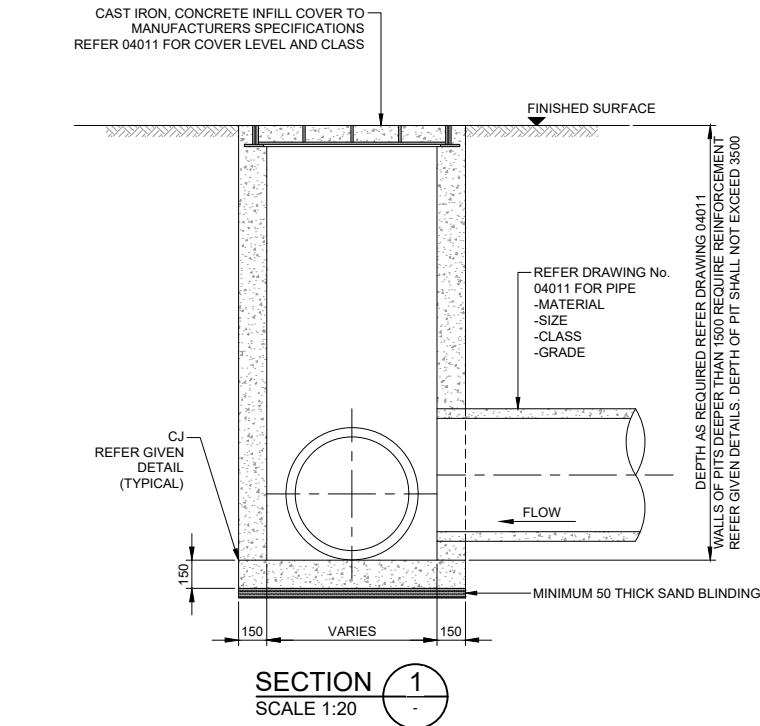
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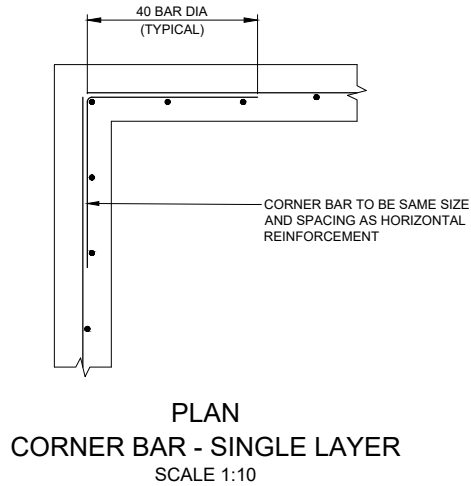
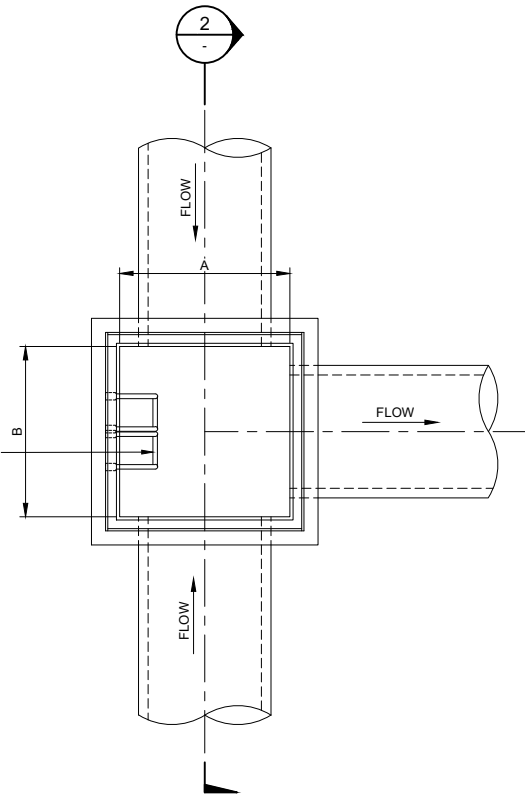
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- NOTES
1. CONCRETE STRENGTH 25MPa.
 2. SIDE WALLS OF PITS DEEPER THAN 1500 ARE TO BE REINFORCED IN ACCORDANCE WITH GIVEN DETAIL.
 3. STEP IRONS ARE REQUIRED WHERE PITS ARE DEEPER THAN 1200.
 4. REFER DRAWING No. 00002 FOR CONCRETE NOTES

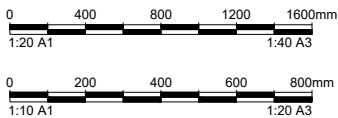
This drawing is copyright and is the property of TTW and must not be used without authorisation. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT NOTES AND LEGENDS



GALVANISED STEP IRON (FOR PITS DEEPER THAN 600) REFER RMS STANDARD DRAWING No. R0220-45



SIZE REQUIREMENTS	
GOVERNED BY MAXIMUM PIPE DIAMETER	
PIPE Ø	A, B
300	600
600	900
900	1200
1200	1600



NOT FOR CONSTRUCTION

										Client:	Engineer:	Project:	Drawing Title:	Scale at A1	Drawn	Designed	Approved			
											School Infrastructure NSW		RICHMOND RIVER	STORMWATER	ARW	CG	GC			
C ISSUED FOR REF SUBMISSION CG JT 15.07.2025												HIGH CAMPUS	DETAILS							
B ISSUED FOR REF SUBMISSION CG JT 20.06.2025												LISMORE, NSW	SHEET 4							
A 100% SCHEMATIC DESIGN CG JHH 18.12.2024												INTERNAL CIVIL WORKS								
Rev	Description			Eng	Draft	Date	Rev	Description			Eng	Draft	Date	Rev	Description			Eng	Draft	Date
															RRHS-TTW-00-00-DR-C-04054-C					
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School Infrastructure NSW

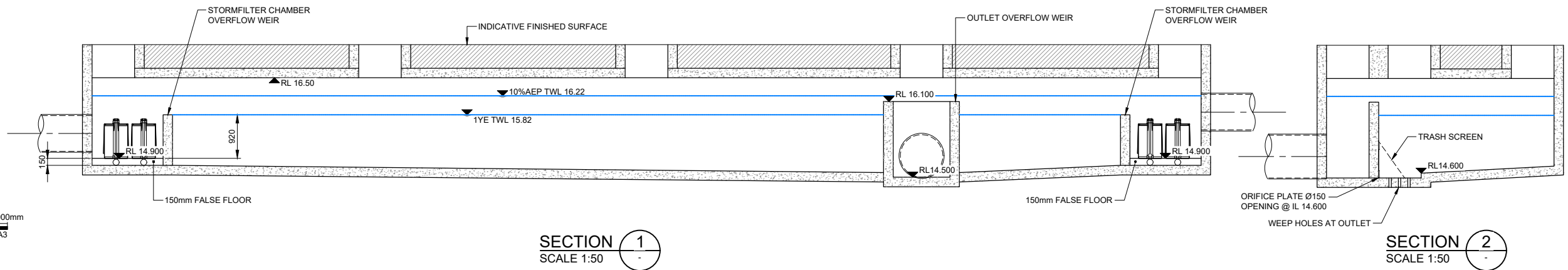
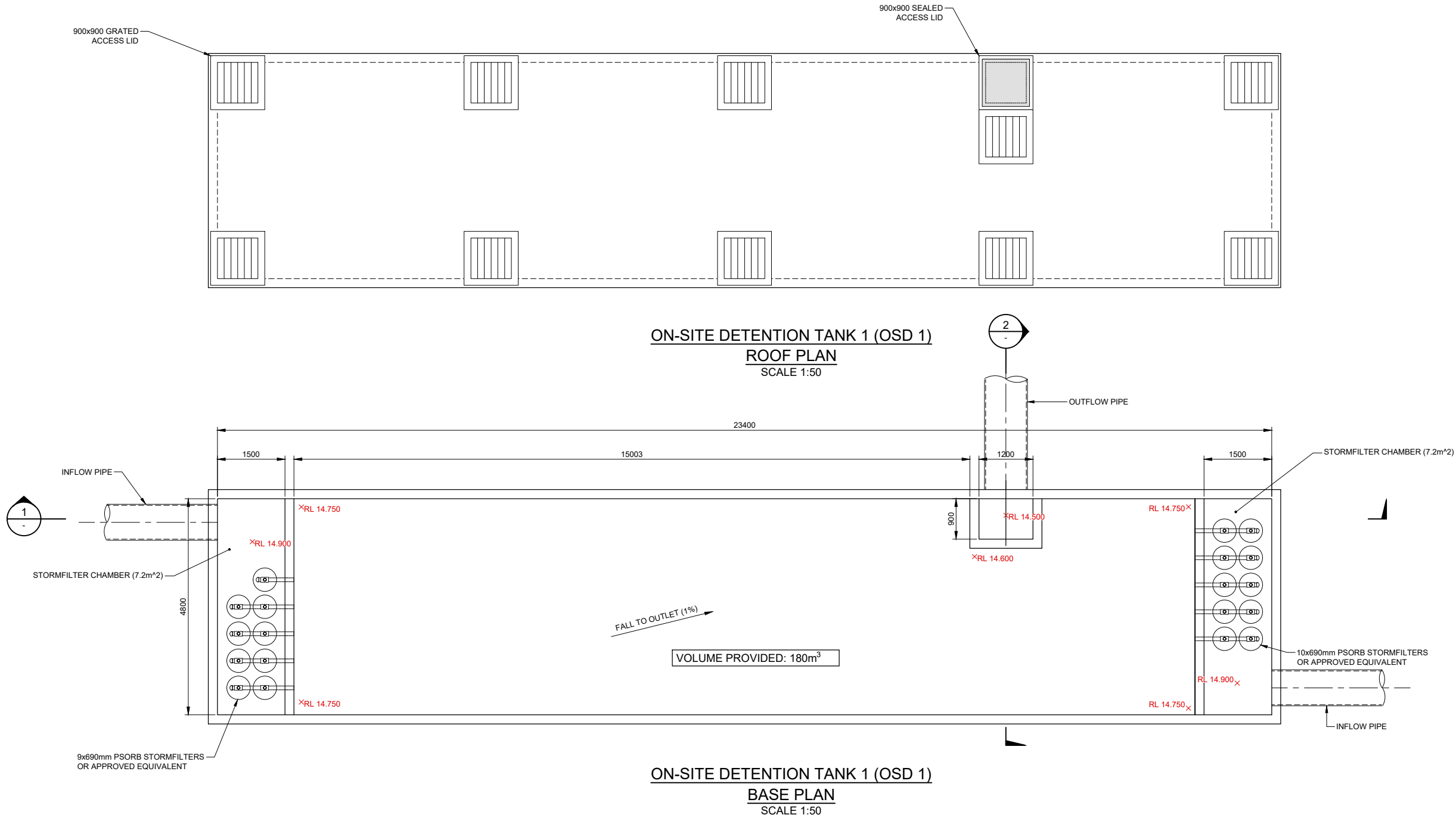


812 9439 7288 | Level 6, 73 Miller Street, North Sydney, NSW 2060



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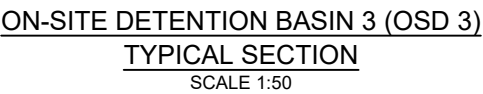
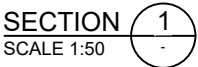
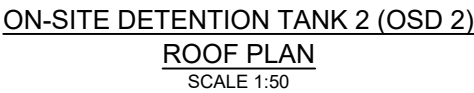
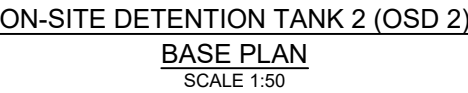
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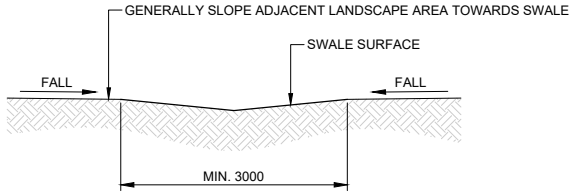
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1:50 A1 1:100 A3

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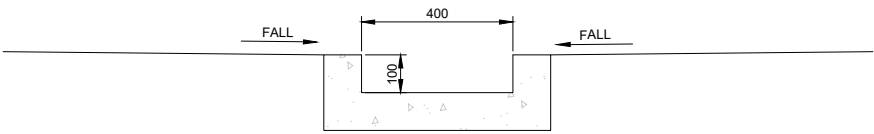
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									School Infrastructure NSW						Structural Civil Traffic Façade			RICHMOND RIVER HIGH CAMPUS LISMORE, NSW			STORMWATER DETAILS SHEET 5			Drawn ARW			Designed CG			Approved GC																	
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B ISSUED FOR REF SUBMISSION CG JT 20.06.2025																								RRHS-TTW-00-00-DR-C-04055-C																							
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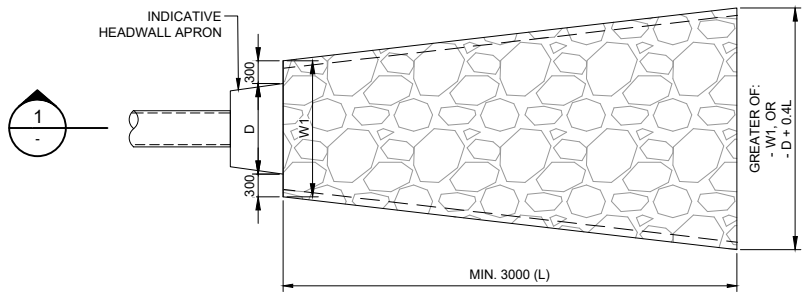
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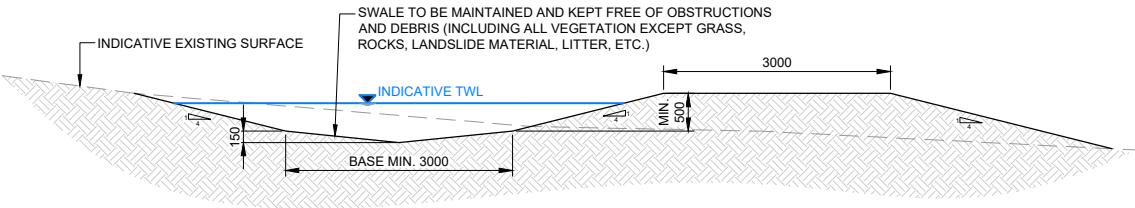
LANDSCAPE SWALE TYPICAL SECTION
GRASS LINED
SCALE 1:50



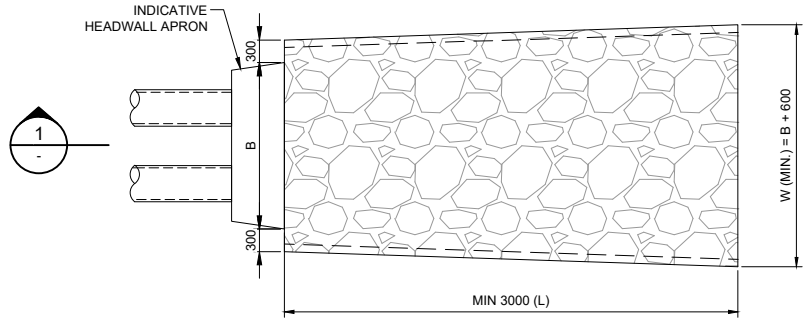
LANDSCAPE SWALE TYPICAL SECTION
CONCRETE
SCALE 1:10



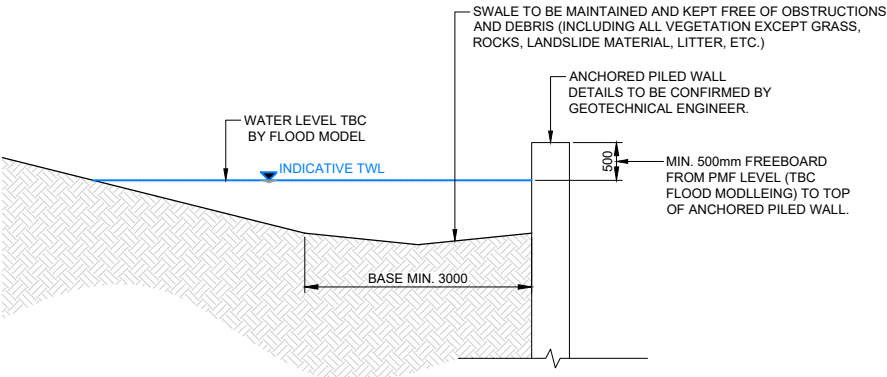
SINGLE PIPE HEADWALL OUTLET
RIP-RAP TYPICAL DETAIL
SCALE 1:50



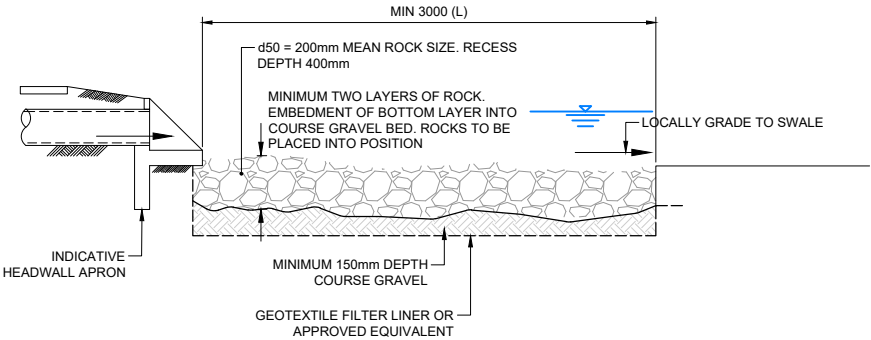
UPSTREAM CATCHMENT BYPASS SWALE TYPICAL SECTION
GRASS LINED
SCALE 1:50



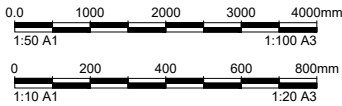
MULTI PIPE HEADWALL OUTLET
RIP-RAP TYPICAL DETAIL
SCALE 1:50



UPSTREAM CATCHMENT BYPASS SWALE TYPICAL SECTION
GRASS LINED - ADJACENT TO ACHORED PILED WALL
SCALE 1:50

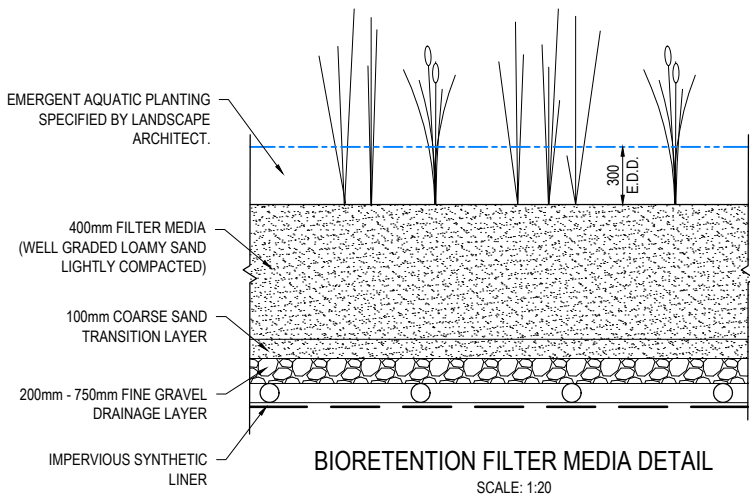


SECTION 1 HEADWALL OUTLET WITH RIP RAP
SCALE 1:50



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			Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved		
									RICHMOND RIVER			STORMWATER			ARW			CG			GC					
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B ISSUED FOR REF SUBMISSION			CG JT 20.06.2025						LISMORE, NSW			SHEET 7														
A 100% SCHEMATIC DESIGN			CG JHH 18.12.2024						INTERNAL CIVIL WORKS																	
Rev Description			Eng Draft Date			Rev Description			Eng Draft Date			Rev Description			Eng Draft Date											



FILTER MEDIA SPECIFICATION

THE FILTER MEDIA SHALL GENERALLY BE A LOAMY SAND AND BE FREE OF CONTAMINANTS SUCH AS RUBBISH, DELETERIOUS MATERIAL, TOXICANTS, DECLARED PLANTS AND WEEDS AND SHOULD NOT BE HYDROPHOBIC.

THE FILTER MEDIA SHALL BE WELL GRADED.

1. pH BETWEEN 5.5 TO 7.5
2. ELECTRICAL CONDUCTIVITY (EC) < 1.2 dS/m
3. ORGANIC MATTER CONTENT< 5% w/w
4. PHOSPHOROUS CONTENT < 35 mg/kg
5. TOTAL SILT & CLAY CONTENT (<0.05mm) < 3% w/w
6. HYDRAULIC CONDUCTIVITY BETWEEN 100 & 300 mm/h
7. HYDRAULIC CONDUCTIVITY TEST SHALL BE CARRIED OUT PRIOR TO TURN OVER TO COUNCIL. 100mm/h IS THE MINIMUM ALLOWABLE RATE

THE COARSE SAND TRANSITION LAYER SHALL BE OF A CLEAN WELL GRADED SAND/COARSE SAND MATERIAL CONTAINING LITTLE OR NO FINES.

THE DRAINAGE LAYER SHALL BE OF A CLEAN FINE GRAVEL CONSISTING OF 2-5mm WASHED SCREENINGS.

NOTE:

1. DETAILS TO BE CONFIRMED AT DETAILED DESIGN STAGE.

CONSTRUCTION NOTES

1. FILTER MEDIA SPECIFICATION & GRADING IS TO BE VERIFIED BY THE SUPERINTENDENT PRIOR TO PLACEMENT. RELEVANT MATERIAL SPECIFICATION SHEETS ARE TO BE PROVIDED BY THE CONTRACTOR.
2. SUBSOIL DRAINAGE PIPES WITHIN THE BIORETENTION SYSTEM ARE TO BE SLOTTED 100mm uPVC CONSISTENT WITH AS/NZS 1254. JOINTS ARE TO BE SOLVENT CEMENT GLUED AND BENDS ARE TO BE 45° TO MINIMISE BLOCKAGE.
3. FILTER MEDIA TO BE LIGHTLY COMPACTED USING A SINGLE PASS VIBRATING PLATE OR ROLLER (ETC. DRUM LAWN ROLLER). UNDER NO CIRCUMSTANCES SHOULD HEAVY COMPACTION OR MULTIPLE PASSES BE MADE.
4. FILTER MEDIA TO BE INSTALLED IN TWO LIFTS UNLESS DEPTH OF MEDIA IS < 500mm.
5. LINER IS TO BE A 0.75mm (30 mil) POLYETHYLENE PRODUCT OR EQUIVALENT.
6. PLANTING DENSITIES AND SPECIES ARE TO BE PLANTED TO THE LANDSCAPE ARCHITECT REQUIREMENTS.

IMPERMEABLE LINER NOTES

AN IMPERMEABLE MEMBRANE SHALL BE USED TO LINE THE BASE AND SIDES WITHIN THE ANOXIC ZONE. THE IMPERVIOUS MEMBRANE SHALL BE A LOW DENSITY POLYETHYLENE SHEETING. TYPICAL PROPERTIES OF IMPERVIOUS MEMBRANES ARE:

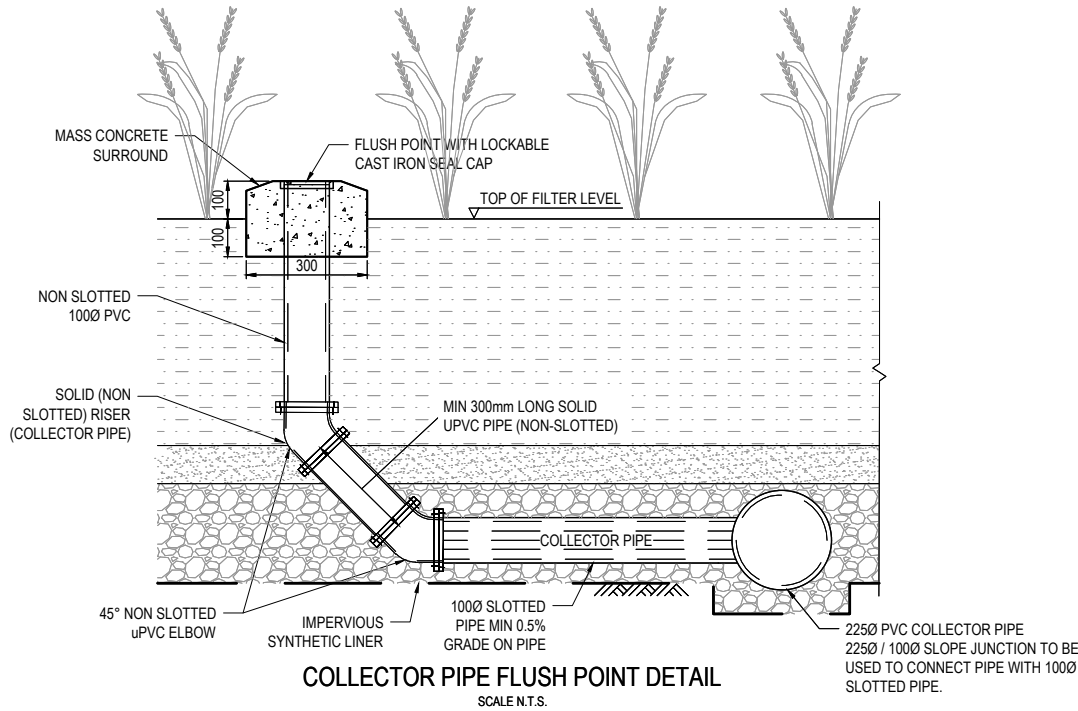
MINIMUM WEIGHT	360 g/m2
MINIMUM THICKNESS	400 microns
TENSILE STRENGTH @ BREAK	19 MPA
TEAR RESISTANCE	35 (N/mm)
PUNCTURE RESISTANCE	125 N

WHERE MULTIPLE PIECES ARE REQUIRED THEY SHALL BE OVERLAPPED BY NO LESS THAN 300 MM

A GEOTEXTILE LINER IS TO BE USED IN ASSOCIATION WITH IMPERMEABLE MEMBRANE AND SHALL BE A NON-WOVEN NEEDLE-PUNCHED FABRIC CONSISTING OF POLYPROPYLENE, POLYETHYLENE, POLYESTER OR A COMBINATION OF ANY OF THESE MATERIALS. TYPICAL PROPERTIES OF GEOTEXTILE FILTER FABRIC ARE:

MINIMUM WEIGHT	250 g/m2
PORE SIZE	180 microns
TENSILE STRENGTH	20 kN/m
GRAB TENSILE STRENGTH	1200 N
CBR BURST STRENGTH	3800 N
FLOW RATE 100MM HEAD	150 l/m2/s

THE LINER IS TO BE PLACED AT THE BASE OF BIORETENTION BASINS BEFORE PLACEMENT OF SLOTTED PIPES AND DRAINAGE LAYERS.



NOTES:
FLUSH POINTS TO BE PROVIDED AT END OF EVERY COLLECTOR DRAINAGE LINE USE:
- Ø225mm UPVC COLLECTOR PIPE & BENDS



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						Client:			Engineer:			Project:			Drawing Title:			Scale at A1			Drawn			Designed			Approved		
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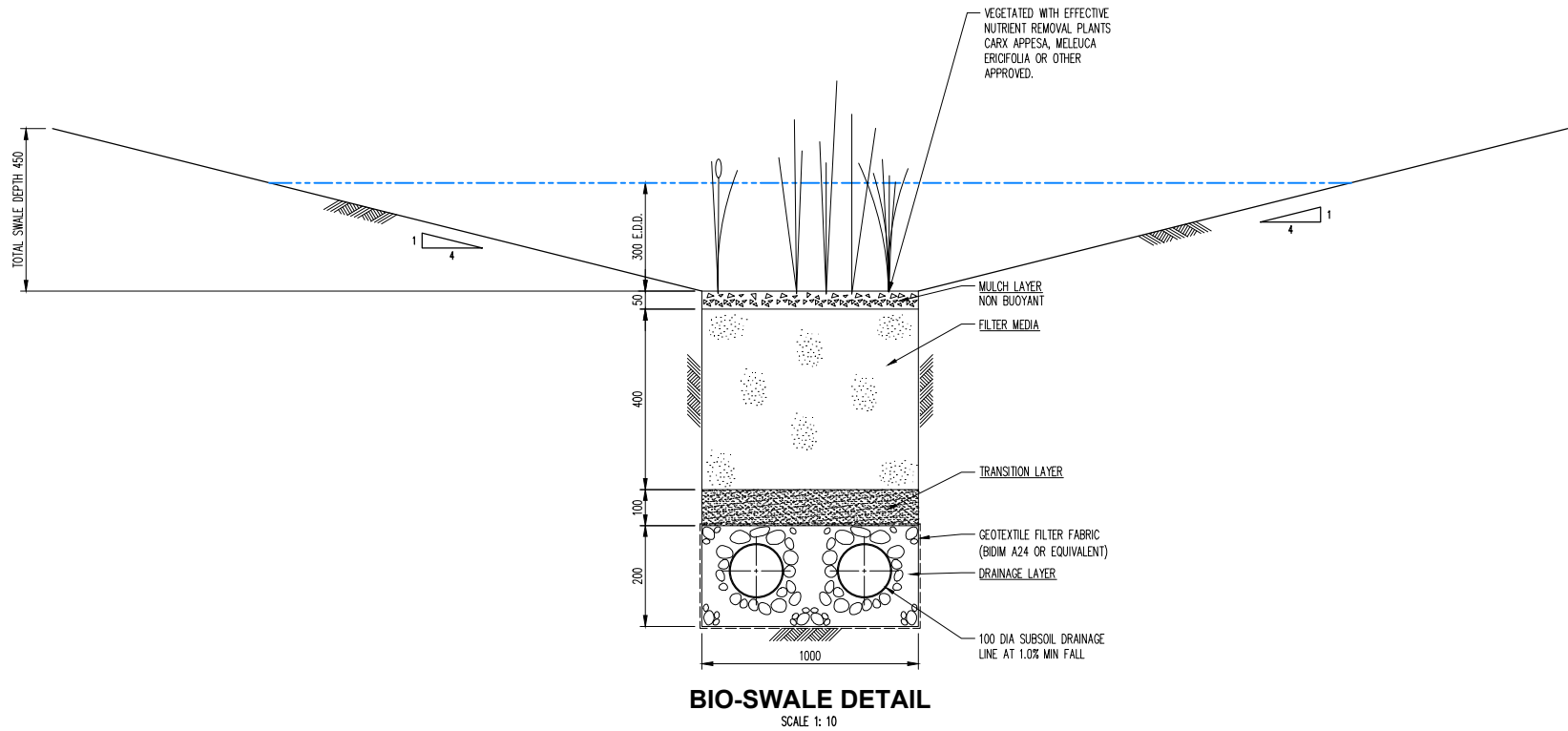
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RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

STORMWATER
DETAILS
SHEET 8

Project No
Originator
Func
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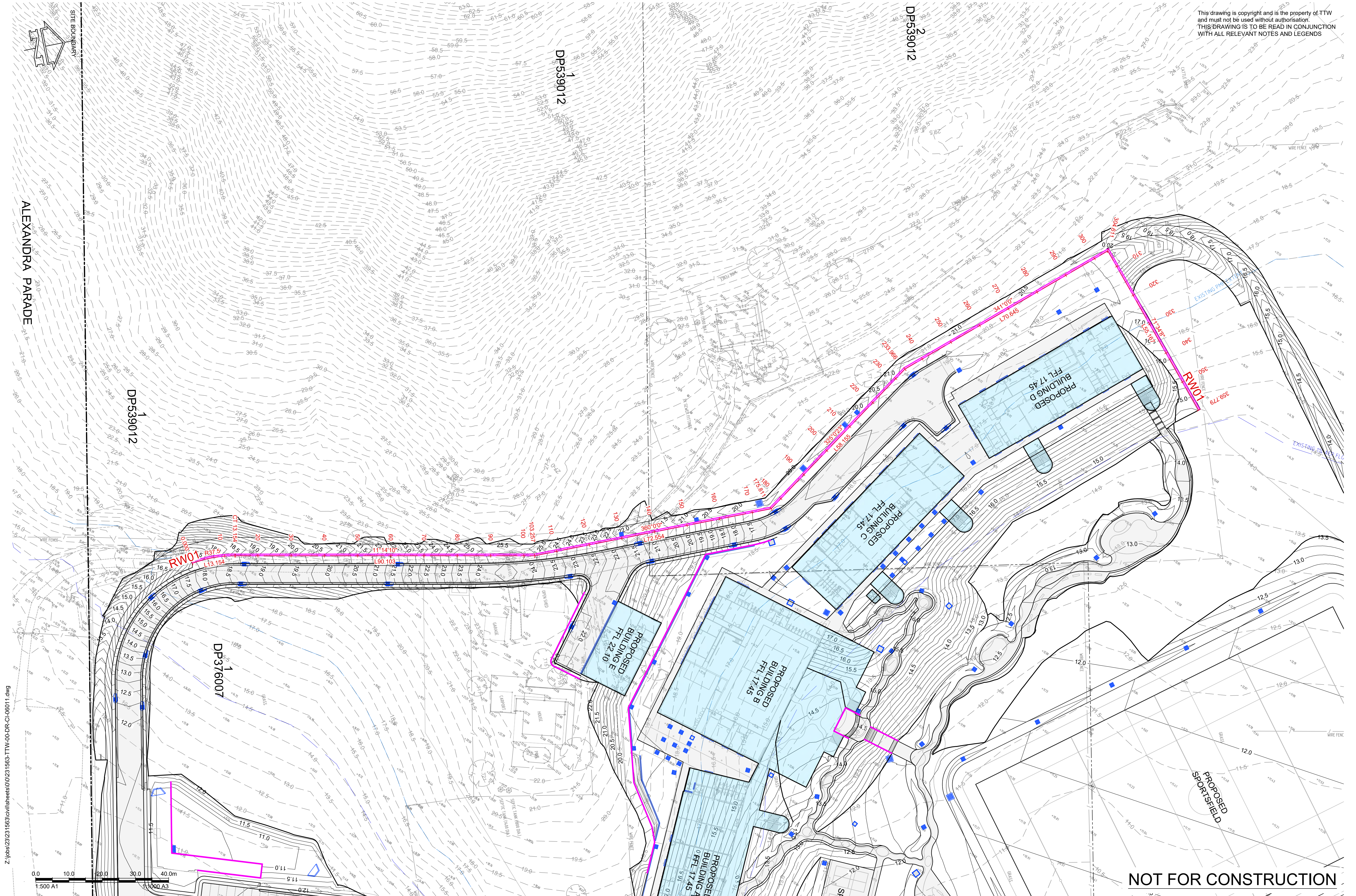


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Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date	Rev	Description	Eng Draft	Date
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A	ISSUED FOR REF SUBMISSION	CG	JT	20.06.2025							

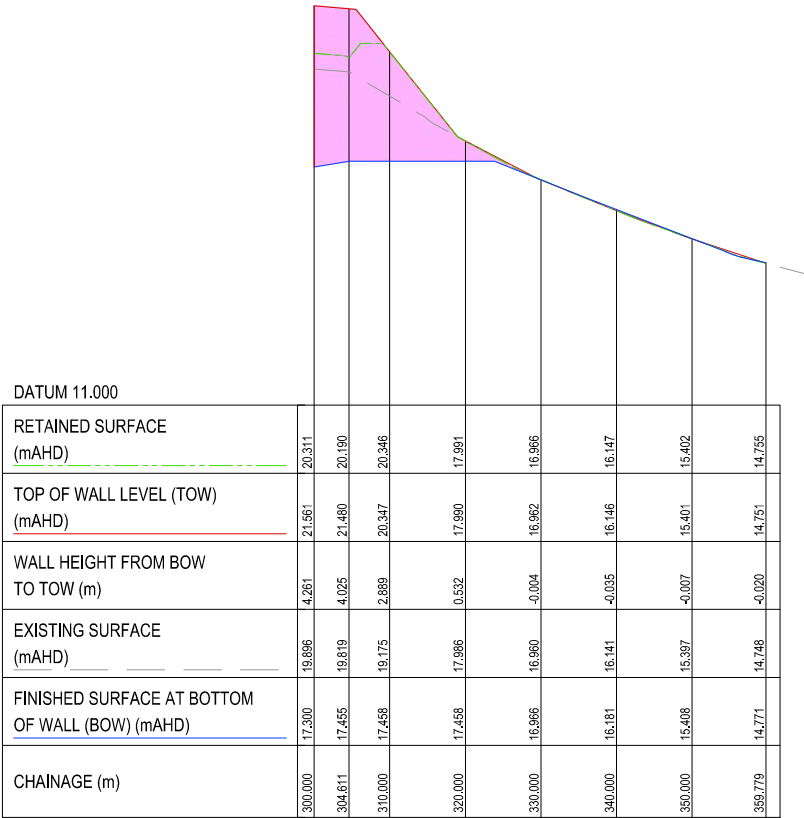
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Engineer:  Structural Civil Traffic Façade
612 9439 7288 | Level 6, 73 Miller Street, North Sydney, NSW 2060

Project: RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

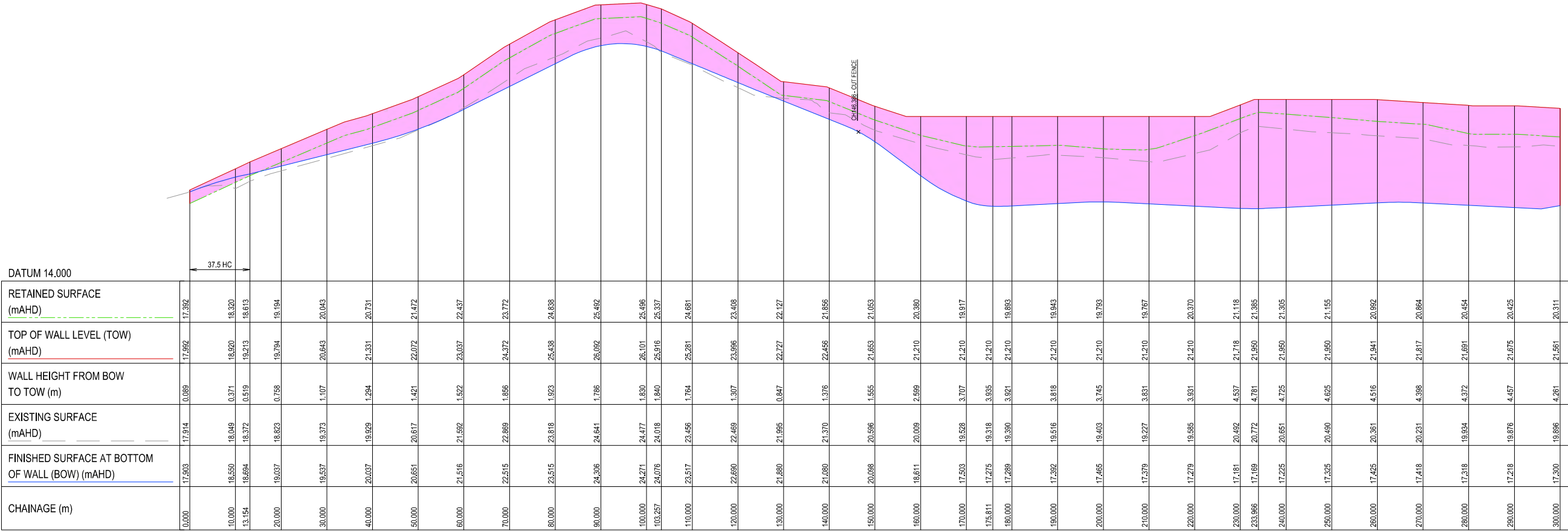
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ALIGNMENT CONTROL
PLAN

Scale at A1
Drawn: ARW
Designed: CG
Approved: GC
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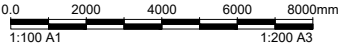


RETAINING WALL ALIGNMENT RW01
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1

NOTES:
1. FOOTING / PILING DEPTHS TBC AT DETAILED DESIGN STAGE BY GEOTECHNICAL ENGINEER.



RETAINING WALL ALIGNMENT RW01
SCALE - HORIZ. 1:500 VERT. 1:100 AT A1



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EROSION AND SEDIMENT CONTROL NOTES

1. ALL WORK SHALL BE GENERALLY CARRIED OUT IN ACCORDANCE WITH:-
 - LOCAL AUTHORITY REQUIREMENTS,
 - EPA POLLUTION CONTROL MANUAL FOR URBAN STORMWATER,
 - LANDCOM NSW - MANAGING URBAN STORMWATER: SOILS AND CONSTRUCTION ("BLUE BOOK").
2. EROSION AND SEDIMENT CONTROL DRAWINGS AND NOTES ARE PROVIDED FOR THE WHOLE OF THE WORKS. SHOULD THE CONTRACTOR STAGE THESE WORKS THEN THE DESIGN MAY BE REQUIRED TO BE MODIFIED. VARIATION TO THESE DETAILS MAY REQUIRE APPROVAL BY THE RELEVANT AUTHORITIES. THE EROSION AND SEDIMENT CONTROL PLAN SHALL BE IMPLEMENTED AND ADAPTED TO MEET THE VARYING SITUATIONS AS WORK ON SITE PROGRESSES.
3. THE EROSION & SEDIMENT CONTROL PLAN IS PREPARED FOR INFORMATION & PLANNING APPROVALS ONLY. THE CONTRACTOR SHALL PREPARE THE CONSTRUCTION EROSION & SEDIMENT CONTROL PLAN BASED ON THEIR WORKS STAGING & PROPOSED SITE FACILITIES.
4. MAINTAIN ALL EROSION AND SEDIMENT CONTROL DEVICES TO THE SATISFACTION OF THE SUPERINTENDENT AND THE LOCAL AUTHORITY.
5. WHEN STORMWATER PITS ARE CONSTRUCTED PREVENT SITE RUNOFF ENTERING THE PITS UNLESS SILT FENCES ARE ERECTED AROUND PITS.
6. MINIMISE THE AREA OF SITE BEING DISTURBED AT ANY ONE TIME.
7. PROTECT ALL STOCKPILES OF MATERIALS FROM SCOUR AND EROSION. DO NOT STOCKPILE LOOSE MATERIAL IN ROADWAYS, NEAR DRAINAGE PITS OR IN WATERCOURSES.
8. ALL SOIL AND WATER CONTROL MEASURES ARE TO BE PUT BACK IN PLACE AT THE END OF EACH WORKING DAY, AND MODIFIED TO BEST SUIT SITE CONDITIONS.
9. CONTROL WATER FROM UPSTREAM OF THE SITE SUCH THAT IT DOES NOT ENTER THE DISTURBED SITE.
10. ALL CONSTRUCTION VEHICLES SHALL ENTER AND EXIT THE SITE VIA THE TEMPORARY CONSTRUCTION ENTRY/EXIT.
11. ALL VEHICLES LEAVING THE SITE SHALL BE CLEANED AND INSPECTED BEFORE LEAVING.
12. MAINTAIN ALL STORMWATER PIPES AND PITS CLEAR OF DEBRIS AND SEDIMENT. INSPECT STORMWATER SYSTEM AND CLEAN OUT AFTER EACH STORM EVENT.
13. CLEAN OUT ALL EROSION AND SEDIMENT CONTROL DEVICES AFTER EACH STORM EVENT.

SEQUENCE OF WORKS

1. PRIOR TO COMMENCEMENT OF EXCAVATION THE FOLLOWING SOIL MANAGEMENT DEVICES MUST BE INSTALLED.
- 1.1. CONSTRUCT SILT FENCES BELOW THE SITE AND ACROSS ALL POTENTIAL RUNOFF SITES.

1.2. CONSTRUCT TEMPORARY CONSTRUCTION ENTRY/EXIT AND DIVERT RUNOFF TO SUITABLE CONTROL SYSTEMS.

1.3. CONSTRUCT MEASURES TO DIVERT UPSTREAM FLOWS INTO EXISTING STORMWATER SYSTEM.

1.4. CONSTRUCT SEDIMENTATION TRAPS/BASIN INCLUDING OUTLET CONTROL AND OVERFLOW.

1.5. CONSTRUCT TURF LINED SWALES.

1.6. PROVIDE SANDBAG SEDIMENT TRAPS UPSTREAM OF EXISTING PITS.
2. CONSTRUCT GEOTEXTILE FILTER PIT SURROUND AROUND ALL PROPOSED PITS AS THEY ARE CONSTRUCTED.
3. ON COMPLETION OF PAVEMENT PROVIDE SAND BAG KERB INLET SEDIMENT TRAPS AROUND PITS.
4. PROVIDE AND MAINTAIN A STRIP OF TURF ON BOTH SIDES OF ALL ROADS AFTER THE CONSTRUCTION OF KERBS.

WATER QUALITY TESTING REQUIREMENTS

1. PRIOR TO DISCHARGE OF SITE STORMWATER, GROUNDWATER AND SEEPAGE WATER INTO COUNCIL'S STORMWATER SYSTEM, CONTRACTORS MUST UNDERTAKE WATER QUALITY TESTS IN CONJUNCTION WITH A SUITABLY QUALIFIED ENVIRONMENT CONSULTANT OUTLINING THE FOLLOWING: -
- COMPLIANCE WITH THE CRITERIA OF THE AUSTRALIAN AND NEW ZEALAND GUIDELINES FOR FRESH AND MARINE WATER QUALITY (2000)

- IF REQUIRED SUBJECT TO THE ENVIRONMENTAL CONSULTANTS ADVICE, PROVIDE REMEDIAL MEASURES TO IMPROVE THE QUALITY OF WATER THAT IS TO BE DISCHARGED INTO COUNCILS STORM WATER DRAINAGE SYSTEM.THIS SHOULD INCLUDE COMMENTS FROM A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT CONFIRMING THE SUITABILITY OF THESE REMEDIAL MEASURES TO MANAGE THE WATER DISCHARGED FROM THE SITE INTO COUNCILS STORM WATER DRAINAGE SYSTEM. OUTLINING THE PROPOSED, ONGOING MONITORING, CONTINGENCY PLANS AND VALIDATION PROGRAM THAT WILL BE IN PLACE TO CONTINUALLY MONITOR THE QUALITY OF WATER DISCHARGED FROM THIS SITE. THIS SHOULD OUTLINE THE FREQUENCY OF WATER QUALITY TESTING THAT WILL BE UNDERTAKEN BY A SUITABLY QUALIFIED ENVIRONMENTAL CONSULTANT.

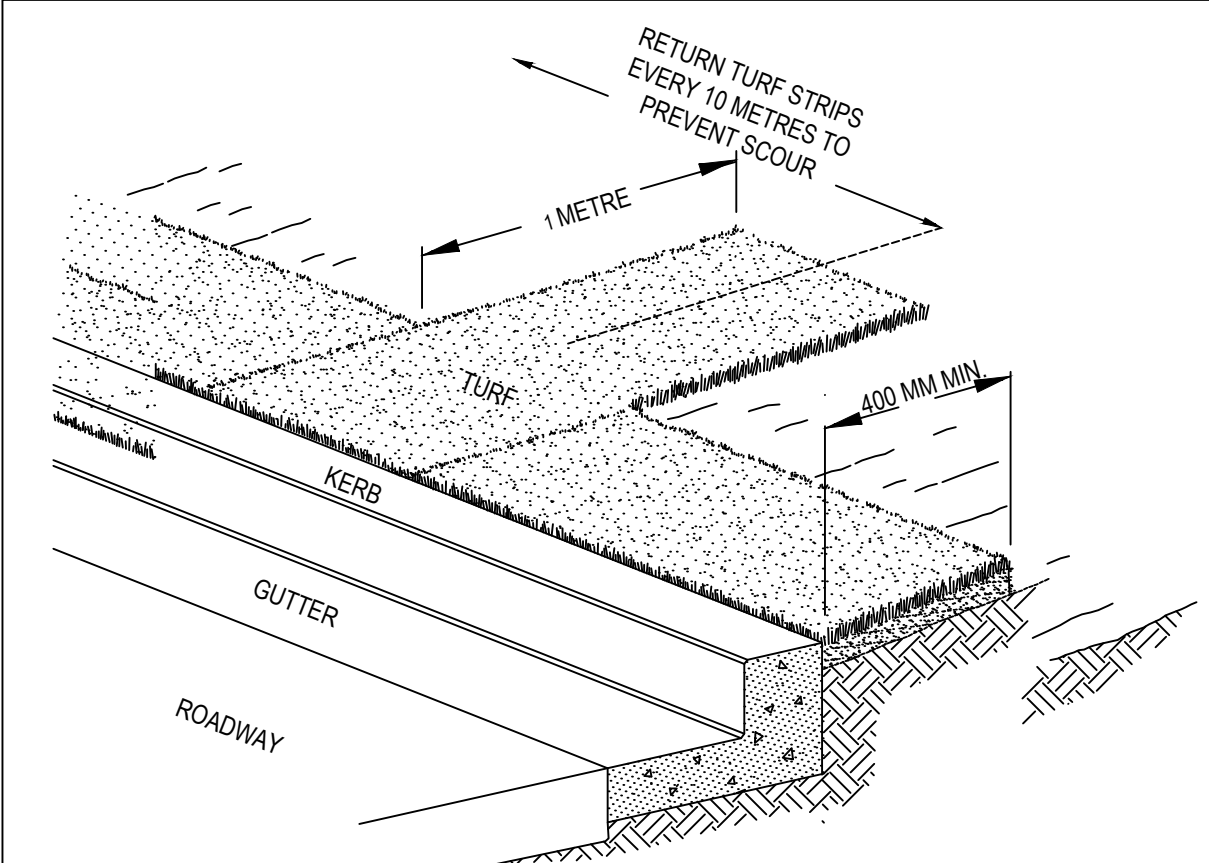
EROSION AND SEDIMENT CONTROL LEGEND

- SF

SEDIMENT FENCE (SD6-8)
- IF

GRATED SURFACE INLET PIT WITH GEOTEXTILE FILTER SURROUND (SD6-12)
- KIF

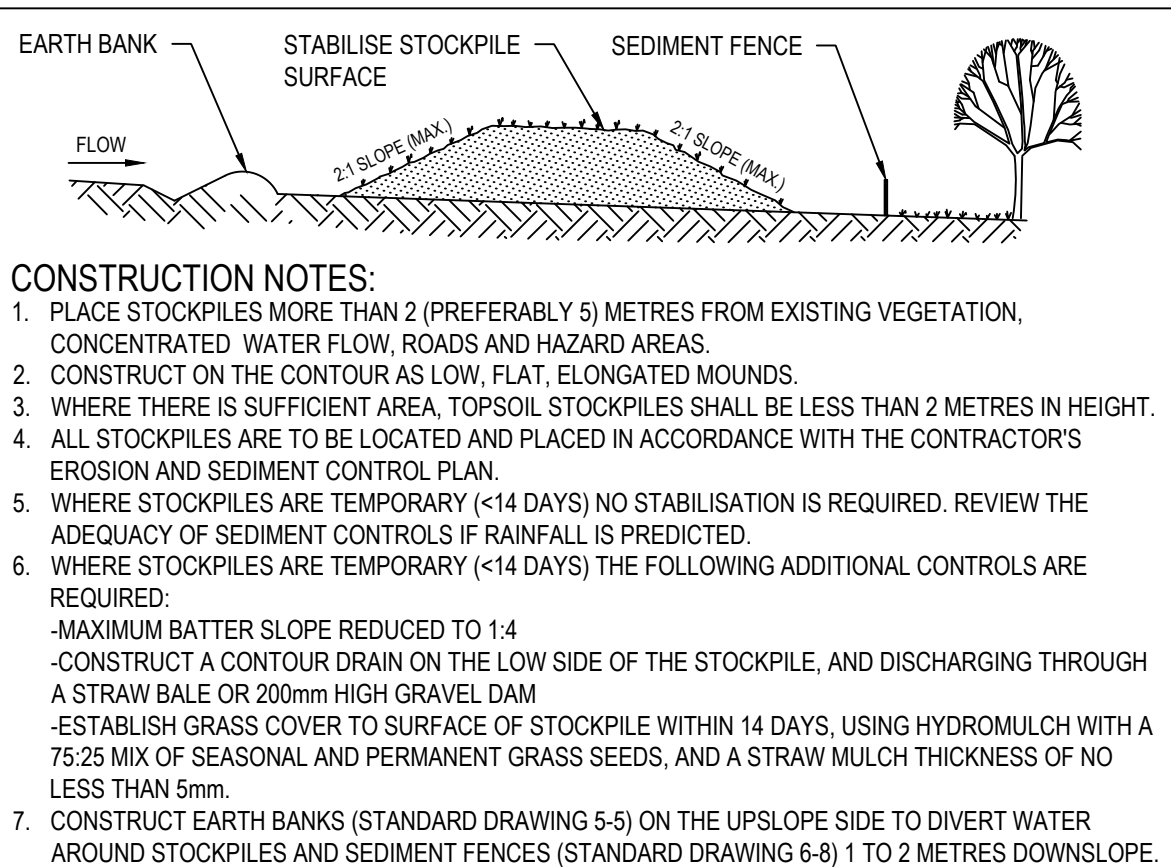
KERB INLET PIT WITH GEOTEXTILE FILTER SURROUND (SD6-11)
- STRAW BALE FILTER (SD6-7)
- CATCH DRAIN (SD5-5)



- CONSTRUCTION NOTES:
1. INSTALL A 400mm MINIMUM WIDE ROLL OF TURF ON THE FOOTPATH NEXT TO THE KERB AND AT THE SAME LEVEL AS THE TOP OF THE KERB.
2. LAY 1.4 METRE LONG TURF STRIPS NORMAL TO THE KERB EVERY 10m.
3. REHABILITATE DISTURBED SOIL BEHIND THE TURF STRIP FOLLOWING THE ESCP/SWMP.

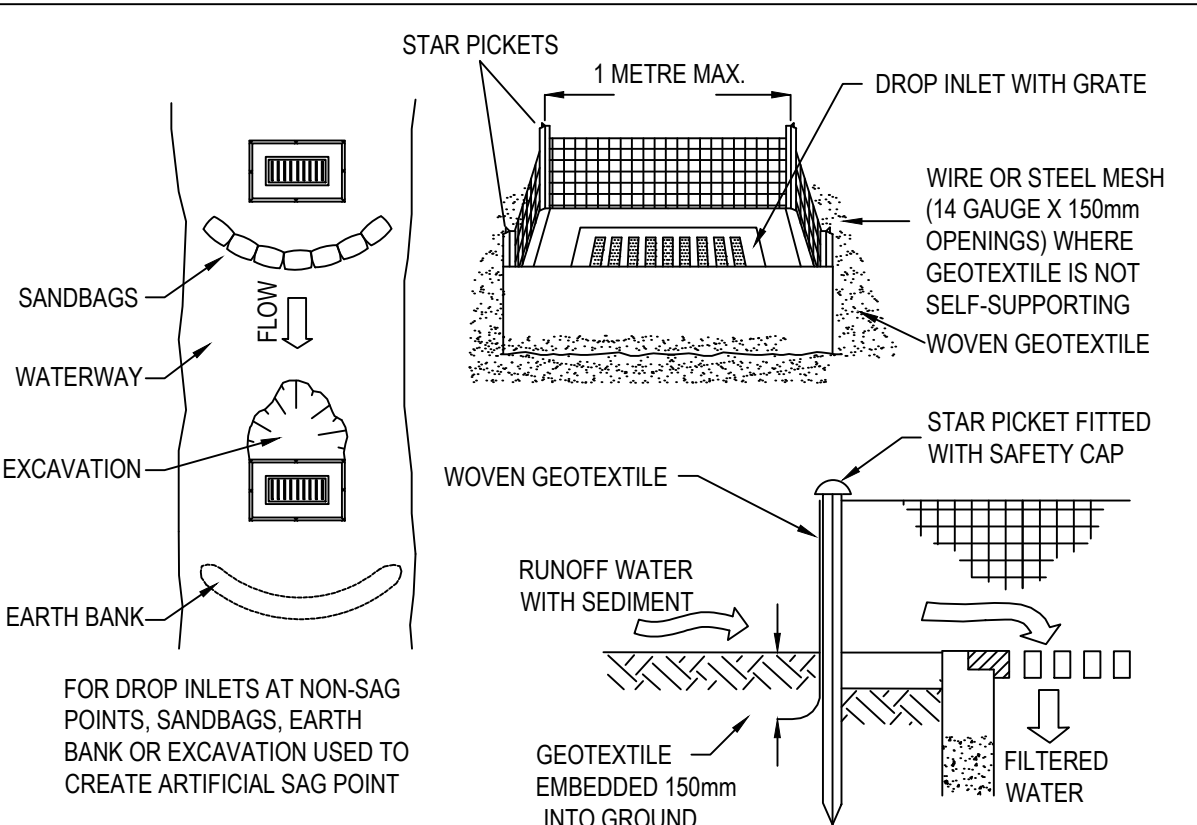
KERBSIDE TURF STRIP

SD 6-13



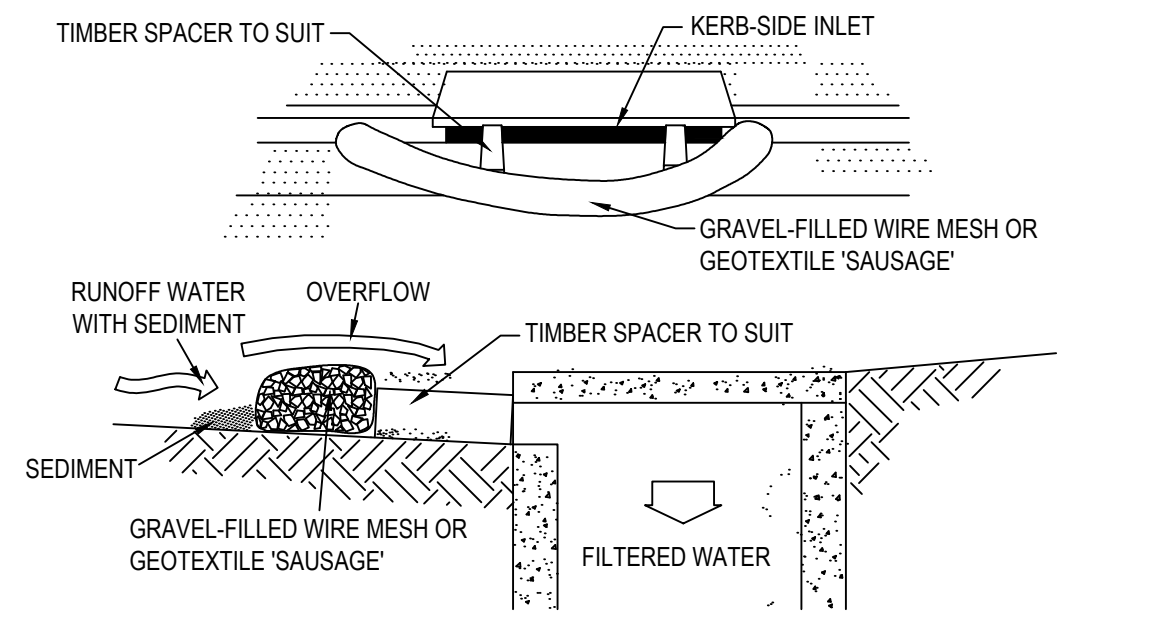
STOCKPILES

SD 4-1



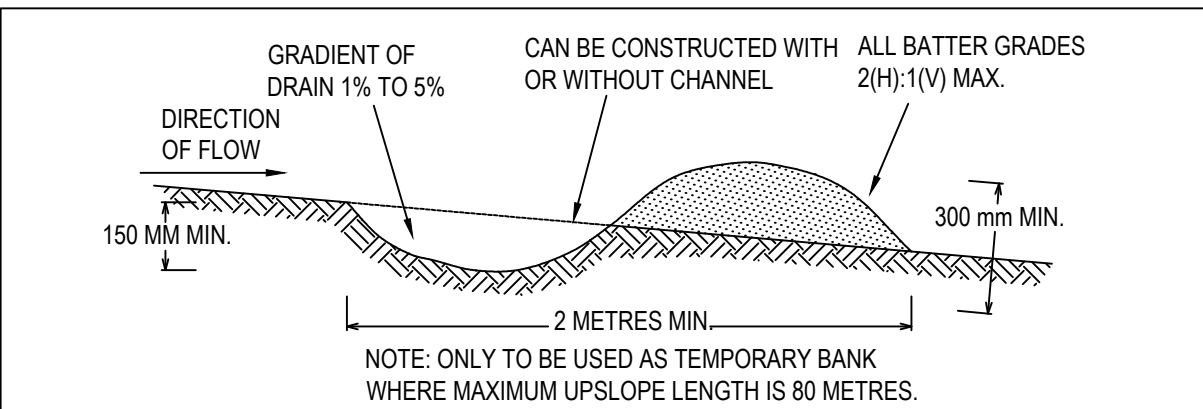
GEOTEXTILE INLET FILTER

SD 6-12



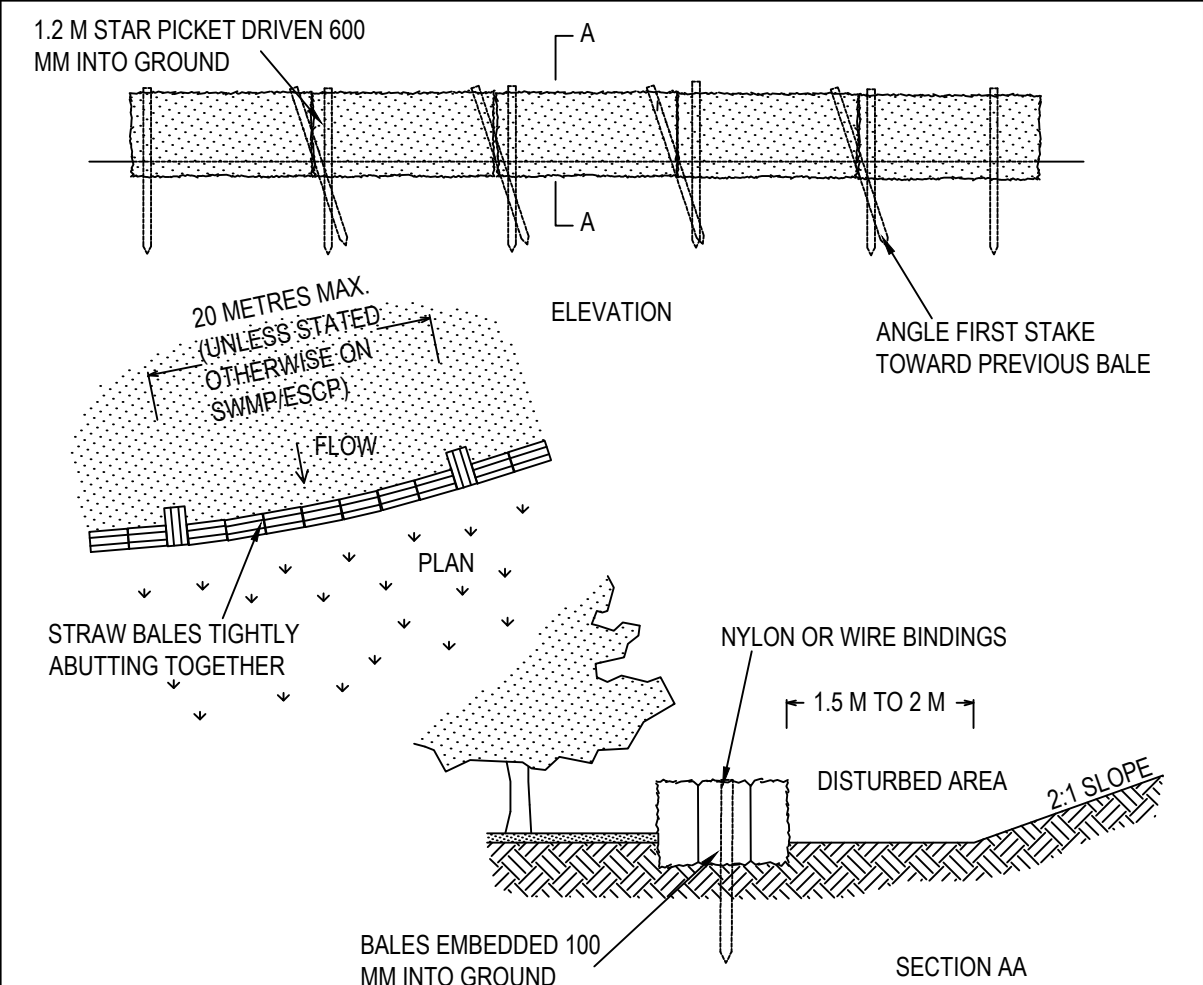
MESH AND GRAVEL INLET FILTER

SD 6-11



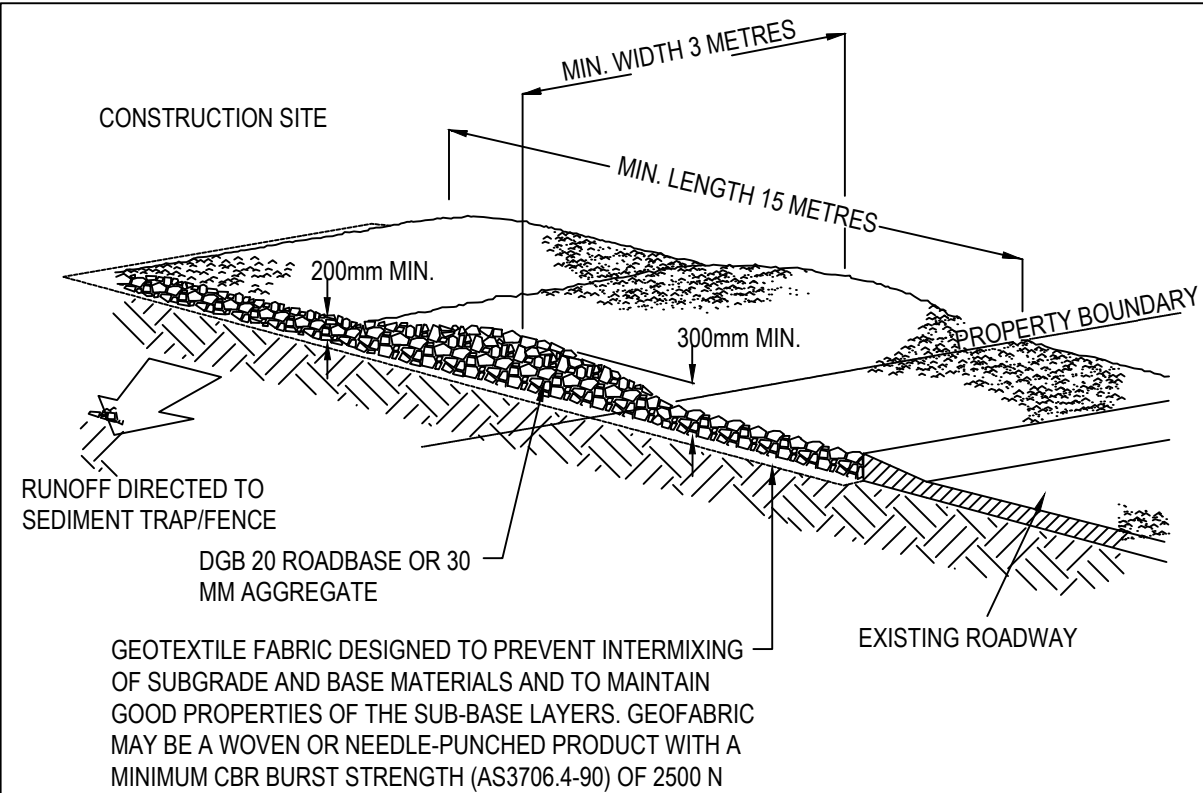
EARTH BANK (LOW FLOW)

SD 5-5



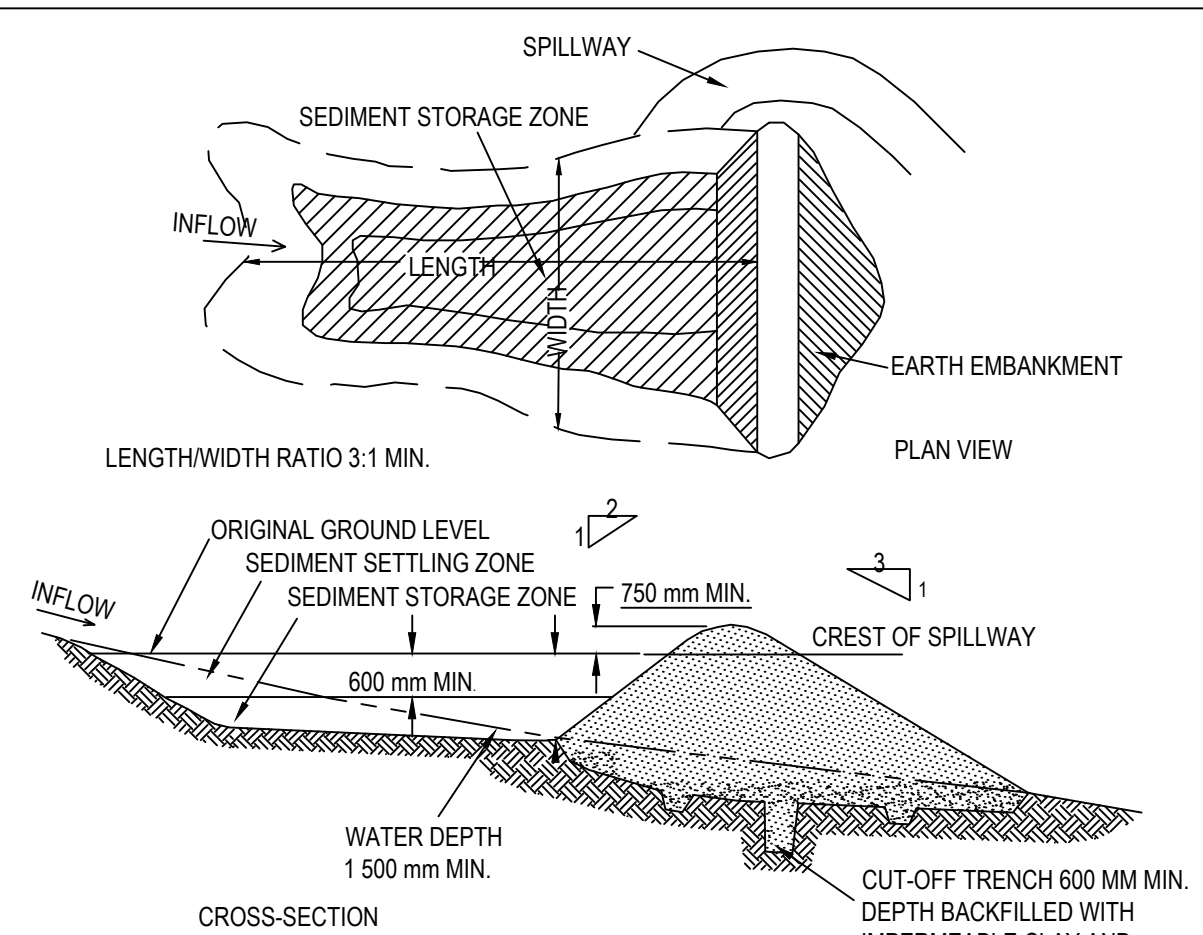
STRAW BALE FILTER

SD 6-7



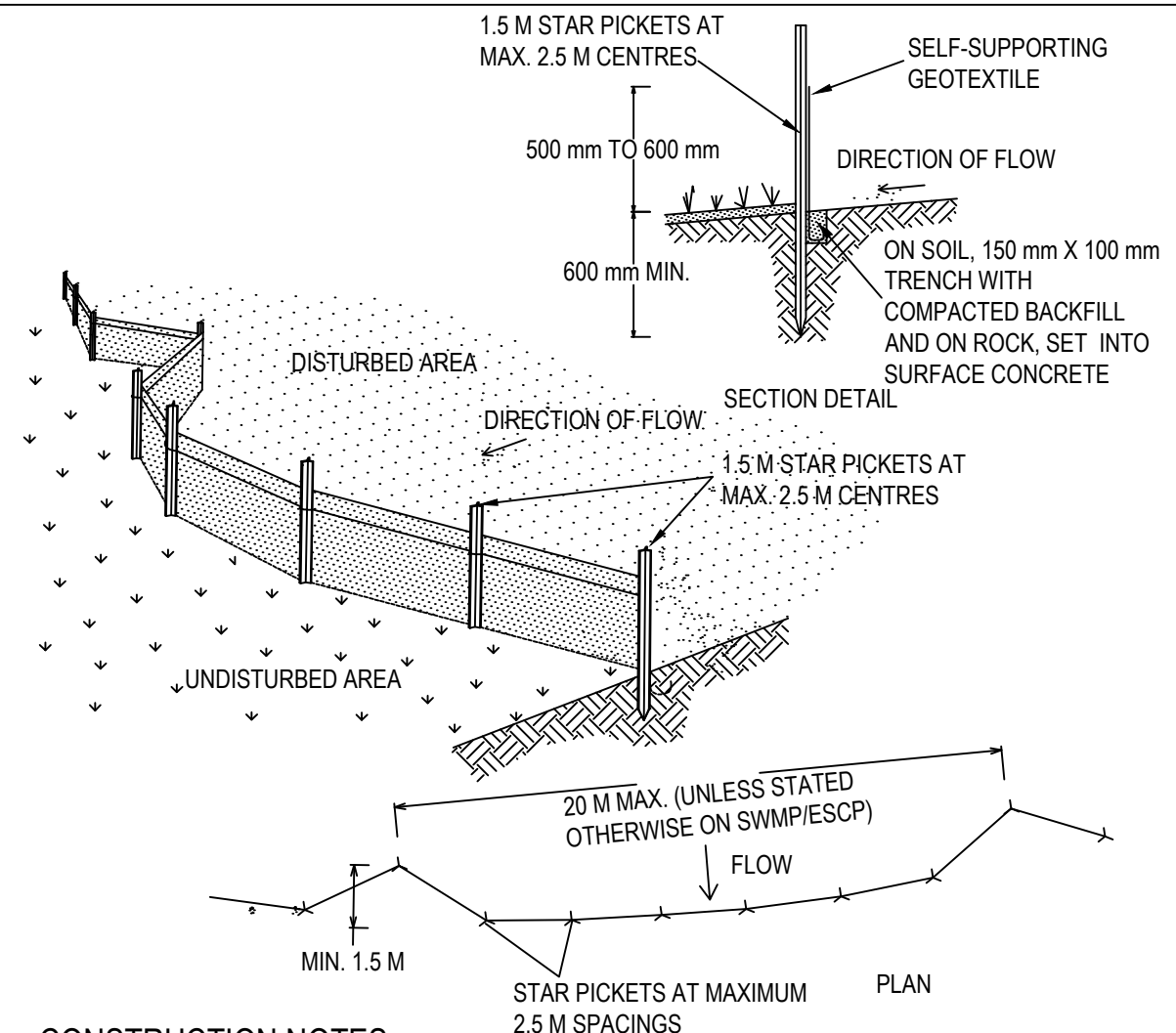
STABILISED SITE ACCESS

SD 6-14



EARTH BASIN - WET
(APPLIES TO 'TYPE D' AND 'TYPE F' SOILS ONLY)

SD 6-4



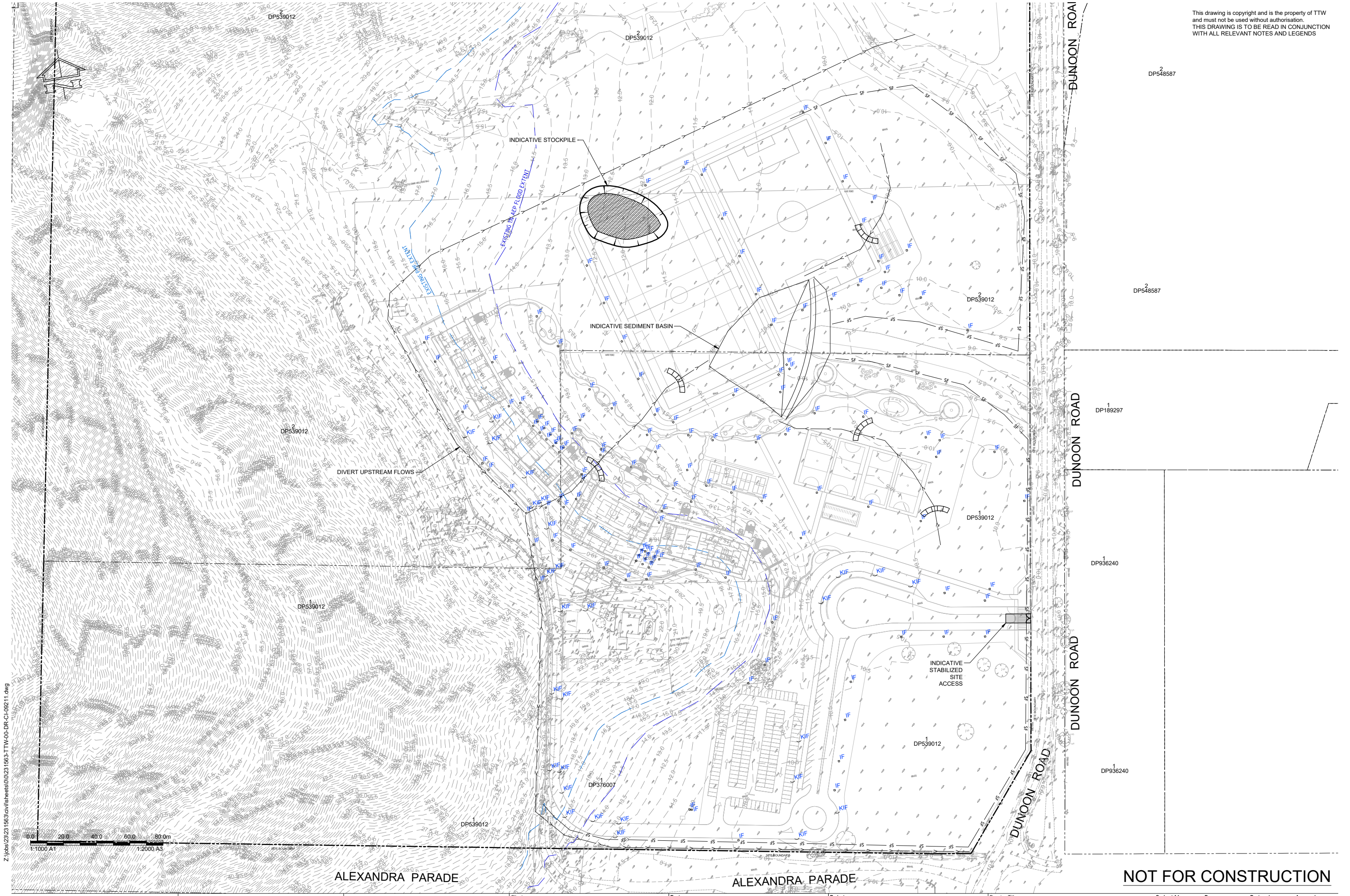
SEDIMENT FENCE

SD 6-8

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School Infrastructure NSW



Structural
Civil
Traffic
Façade

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RICHMOND RIVER
HIGH CAMPUS
LISMORE, NSW
INTERNAL CIVIL WORKS

ENVIRONMENTAL
EROSION CONTROL PLAN

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