DRAWING SCHEDULE				
Sheet Number	Sheet Title	Revision		
SCSD-100-1	SCSD-100-Contents Page.V1 - Sheet 1	1		
SCSD-101-1	SCSD-101-Kerb Profiles and Dimensions.V1 - Sheet 1	1		
SCSD-201-1	SCSD-201-Driveway & Laybacks.V1 - Layout 1	1		
SCSD-201-2	SCSD-201-Driveway & Laybacks.V1 - Layout 2	1		
SCSD-202-1	SCSD-202-Driveway Profiles.V1 - Layout1	1		
SCSD-202-2	SCSD-202-Driveway Profiles.V1 - Layout2	1		
SCSD-202-3	SCSD-202-Driveway Profiles.V1 - Layout3	1		
SCSD-203-1	SCSD-203-Rural Driveway.V1 - Layout 1	1		
SCSD-301-1	SCSD-301-Concrete Foot Paving.V1 - Layout 1	1		
SCSD-301-2	SCSD-301-Concrete Foot Paving.V1 - Layout 2	1		
SCSD-302-1	SCSD-302-Pathway Barriers - Bollards.V1 - Layout1	1		
SCSD-303-1	SCSD-303-Kerb Ramps.V1 - Sheet 1	1		
SCSD-303-2	SCSD-303-Kerb Ramps.V1 - Sheet 2	1		
SCSD-304-1	SCSD-304-Footpath Chicane.V1 - Layout1	1		
SCSD-305-1	SCSD-305-Kerb Ramps Construction Details.V1 - Layout 1	1		
SCSD-401-1	SCSD-401-Grated Gully Pit with Extended Kerb Inlet.V1 - Layout1	1		
SCSD-401-2	SCSD-401-Grated Gully Pit with Extended Kerb Inlet.V1 - Layout2	1		
SCSD-402-1	SCSD-402-Drainage Swale.V1 - Layout1	1		
SCSD-403-1	SCSD-403-Raised Grated Letterbox or Junction Pit.V1 - Layout1	1		
SCSD-404-1	SCSD-404-Kerb Stormwater Outlet and Kerb Adaptor.V1 - Layout1	1		
SCSD-405-1	SCSD-405-Overland Flow Path - Cross Section.V1 - Layout1	1		
SCSD-406-1	SCSD-406-Onsite Stormwater Detention.V1 - Layout1	1		
SCSD-406-2	SCSD-406-Onsite Stormwater Detention.V1 - Layout2	1		
SCSD-407-1	SCSD-407-Onsite Stormwater Disposal Trench.V1 - Layout1	1		
SCSD-408-1	SCSD-408-Median Kerb Inlet Pit.V1 - Layout1	1		
SCSD-409-1	SCSD-409-Inter Allotment Drainage Pit.V1 - Layout1	1		
SCSD-410-1	SCSD-410-Porous Paving.V1 - Layout	1		
SCSD-411-1	SCSD-411-Grassed Swale - Type 1.V1 - Layout	1		
SCSD-412-1	SCSD-412-Grassed Swale - Type 2.V1 - Layout	1		
SCSD-413-1	SCSD-413-Sediment Basin.V1 - Layout	1		
SCSD-414-1	SCSD-414-Bioretention Tree Pit.V1 - Layout	1		
SCSD-415-1	SCSD-415-Streetscape Bioretention.V1 - Layout	1		
SCSD-416-1	SCSD-416-Bioretention Swale.V1 - Layout	1		

DRAWING SCHEDULE				
Sheet Number	Sheet Number Sheet Title			
SCSD-417-1	SCSD-417-Bioretention Basin.V1 - Layout	1		
SCSD-418-1	SCSD-418-Constructed Wetland.V1 - Layout 1	1		
SCSD-419-1	SCSD-419-High Flow Weir.V1 - Layout 1	1		
SCSD-420-1	SCSD-420-Low Flow Riser Outlet.V1 - Layout 1	1		
SCSD-421-1	SCSD-421-Small Sed Forebay.V1 - Layout 1	1		
SCSD-422-1	SCSD-422-Large Sed Forebay.V1 - Layout 1	1		
SCSD-423-1	SCSD-423-Maintenance Access - GPT Underground.V1 - Layout 1	1		
SCSD-424-1	SCSD-424-Maintenance Access - GPT Aboveground.V1 - Layout 1	1		
SCSD-425-1	SCSD-425-Sediment Basin Inlet Detail.V1 - Layout 1	1		
SCSD-426-1	SCSD-426-Bedding Methods for Drainage Pipes.V1 - Layout 1	1		
SCSD-426-2	SCSD-426-Bedding Methods for Drainage Pipes.V1 - Layout 2	1		
SCSD-427-1	SCSD-427-Typical Open Chanel.V1 - Layout 1	1		
SCSD-428-1	SCSD-428-Headwall Scour Protection.V1 - Layout 1	1		
SCSD-429-1	SCSD-429-Stormwater Concrete Headwalls.V1 - Layout 1	1		
SCSD-430-1	SCSD-430-Flood Warning Signage.V1 - Layout 1	1		
SCSD-431-1	SCSD-431-Level Spreader Detail.V1 - Layout 1	1		
SCSD-701-1	SCSD-701-Turning Area for Cul De Sacs.V1 - Layout1	1		
SCSD-702-1	SCSD-702-Street and Road Standards.V1 - Layout 1	1		
SCSD-703-1	SCSD-703-Concrete Dish Crossing at Intersection.V1 - Layout 1	1		



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1	ORIGINAL VERSION	12/09/2023	3.
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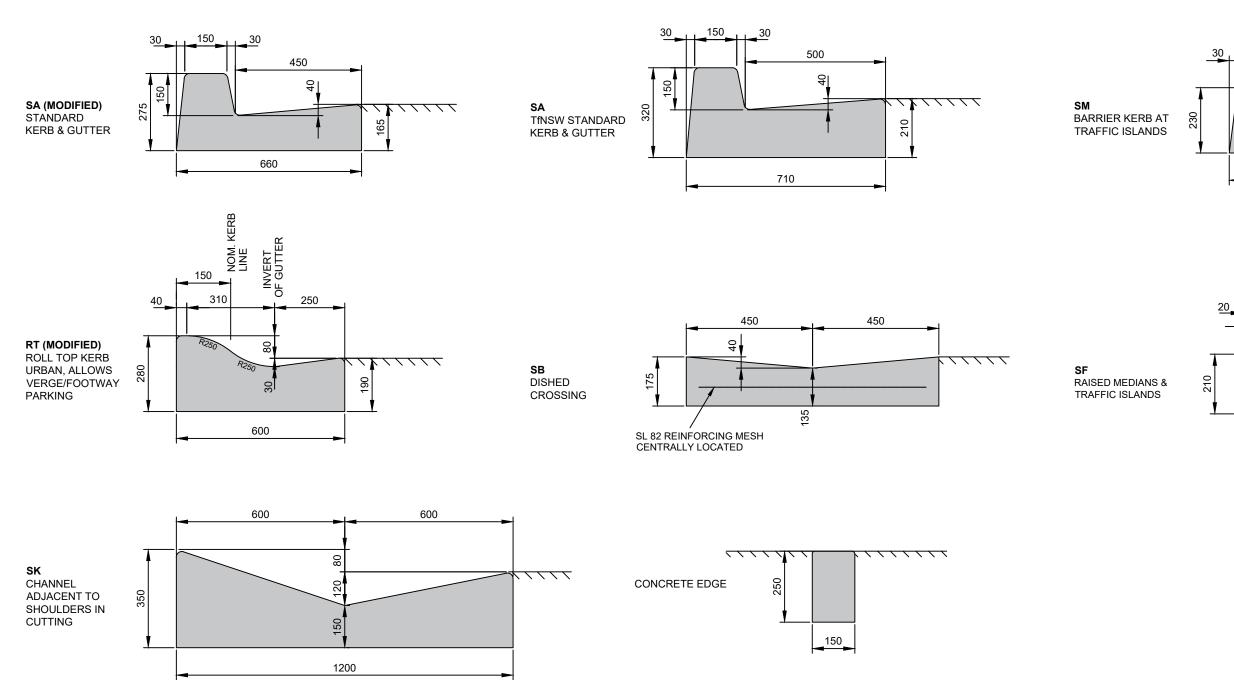
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Drawing Title	
CONTENTS PAGE	

 Sheet
 1 OF 1
 A3

 Drawing No.
 SCSD-100
 Version
 1



1. ALL EXPOSED EDGES TO BE ROUNDED TO 20mm RADIUS

160

260

2. ALL KERBS TO BE CONSTRUCTED WITH 25MPa CONCRETE

150

- 3. CONTROL JOINTS TO BE PROVIDED EVERY 2.5-3m
- 4. EXPANSION JOINTS EVERY 15m AND AT EVERY LAYBACK, LINTEL AND PRAM RAMP
- 5. ADMIXTURE TO BE USED FOR FINISHING SURFACES

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				2
	1	ORIGINAL VERSION	22/03/2023	3
	Ver	Comments	Date	

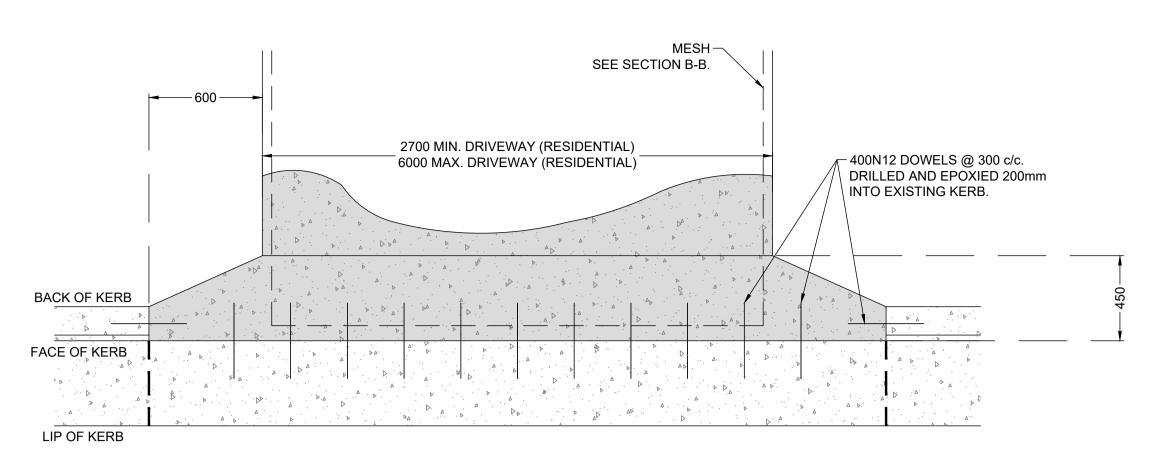
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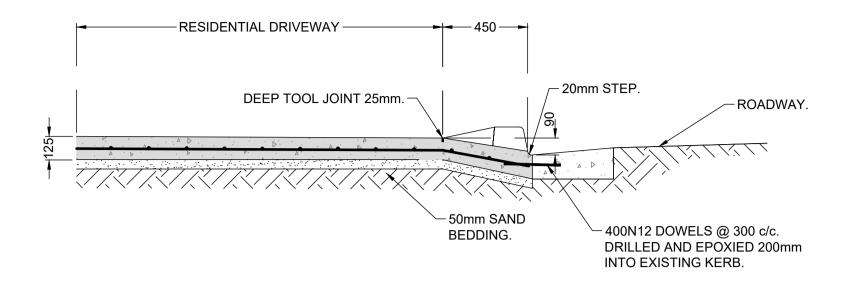
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Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au Drawing Title KERB PROFILES AND DIMENSIONS

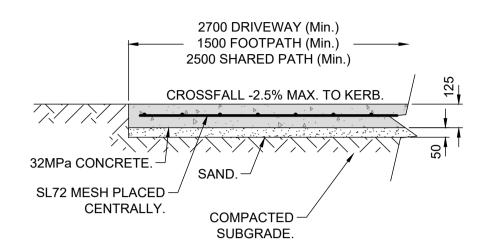
Sheet	1 OF 1		A3
Drawing No.	SCSD-101	Version	1



PLAN - UPRIGHT 'SA' KERB FOR RESIDENTIAL AND COMMERCIAL



TYPICAL SECTION - UPRIGHT 'SA' KERB RESIDENTIAL NTS



RESIDENTIAL DRIVEWAYS, CYCLEWAYS & FOOTPATHS

NOTES:

ALL DIMENSIONS IN MILLIMETRES

(NO MASTIC JOINTS PERMITTED).

SAWCUT BREAKOUT LINE TO MINIMUM DEPTH OF 75mm

PROVIDE FULL DEPTH EXPANSION JOINT AT BOUNDARY

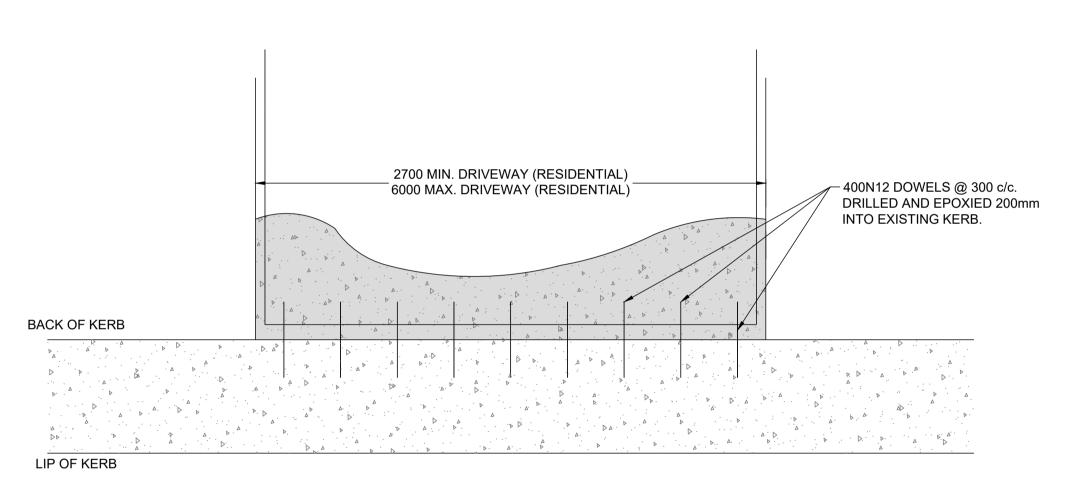
FOR COMMERCIAL AND INDUSTRIAL ACCESSES - WIDTH

SIZED TO SUIT TURNING MOVEMENTS OF DESIGN

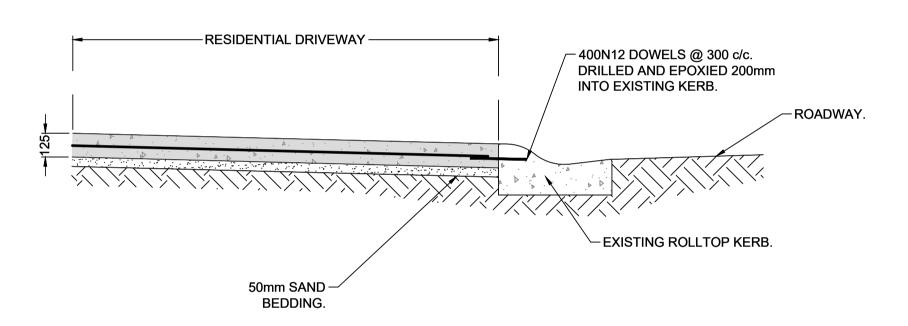
ALL CONCRETE TO BE 32MPa

AND LAYOUT ARE

VEHICLES.



PLAN - UPRIGHT 'SA' KERB FOR RESIDENTIAL AND COMMERCIAL



TYPICAL SECTION - ROLL 'RT' KERB RESIDENTIAL

NOTES:

ALL DIMENSIONS ARE IN MILLIMETRES.

FOOTPATH WIDTHS TO SCSD-704. RURAL DRIVEWAY TO SCSD-203.

10. ALL CONCRETE TO BE 32MPa.

MASTIC JOINTS PERMITTED).

KERB RAMP CONNECTIONS TO SCSD-103.

PROVIDE TRANSVERSE EXPANSION JOINTS AT 8.0m INTERVALS

PAVEMENTS LESS THAN 2.0m WIDE AND AT 4.0m INTERVALS FOR PAVEMENTS UP TO 3.0m WIDE. CUT EVERY 2nd BAR AT JOINT JOINTS WITH EXISTING CONCRETE FOOTPATHS TO BE DOWELLED

WITH R12 DOWELS, 300mm LONG AT 300mm CENTRES.

WITH R12 DOWELS, 300mm LONG AT 300mm CENTRES. ALL DISTURBED EARTH OR GRASSED AREAS TO BE TURFED.

CYCLEWAY AND FOOTPATH FINISH TO BE "LIGHT BROOM".

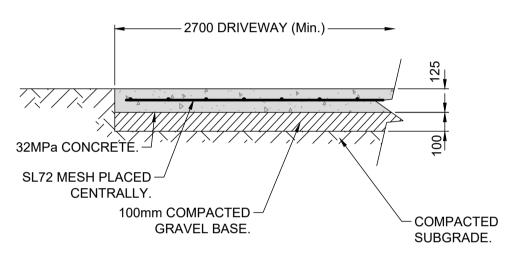
13. FOR COMMERCIAL AND INDUSTRIAL ACCESSES - WIDTH AND

PROVIDE FULL DEPTH EXPANSION JOINT AT BOUNDARY LINE.

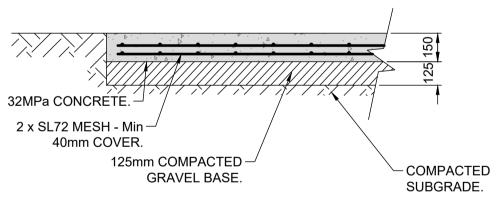
SAWCUT AND BREAKOUT LINE TO MINIMUM DEPTH OF 75mm (NO

LAYOUT ARE SIZED TO SUIT TURNING MOVEMENTS OF DESIGN

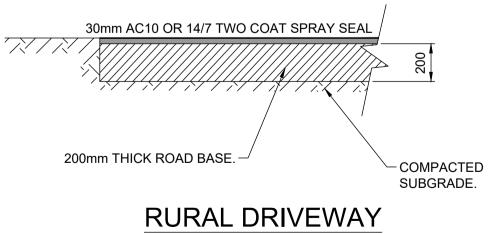
PROVIDE TOOLED DUMMY JOINTS AT 2.0m INTERVALS FOR



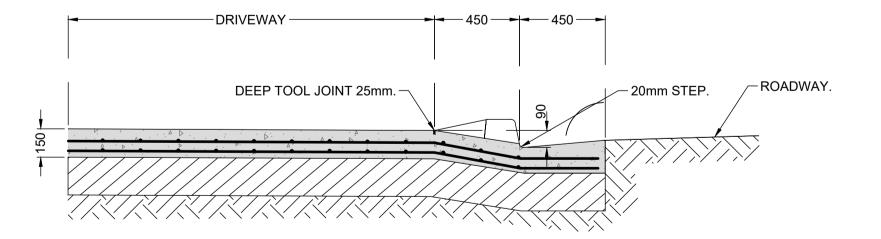
SHARED DRIVEWAYS & ACCESSWAYS INCLUDING MAINTENANCE VEHICLE ACCESS



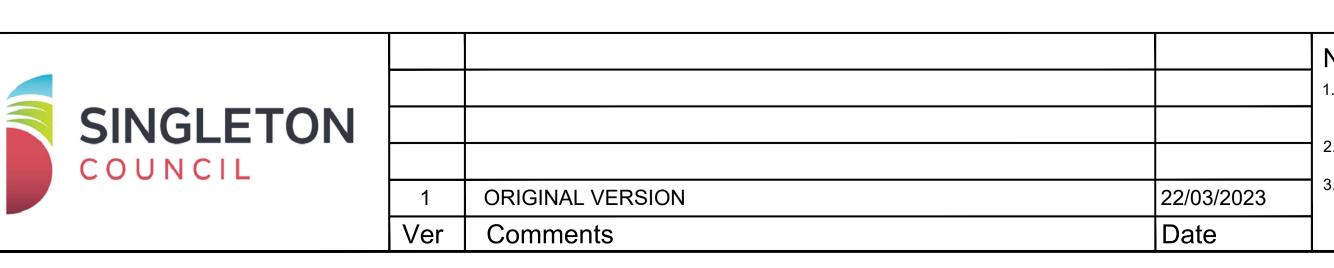
COMMERCIAL / INDUSTRIAL DRIVEWAY NTS



NTS



TYPICAL SECTION - UPRIGHT 'SA' KERB COMMERCIAL / INDUSTRIAL NTS



Notes

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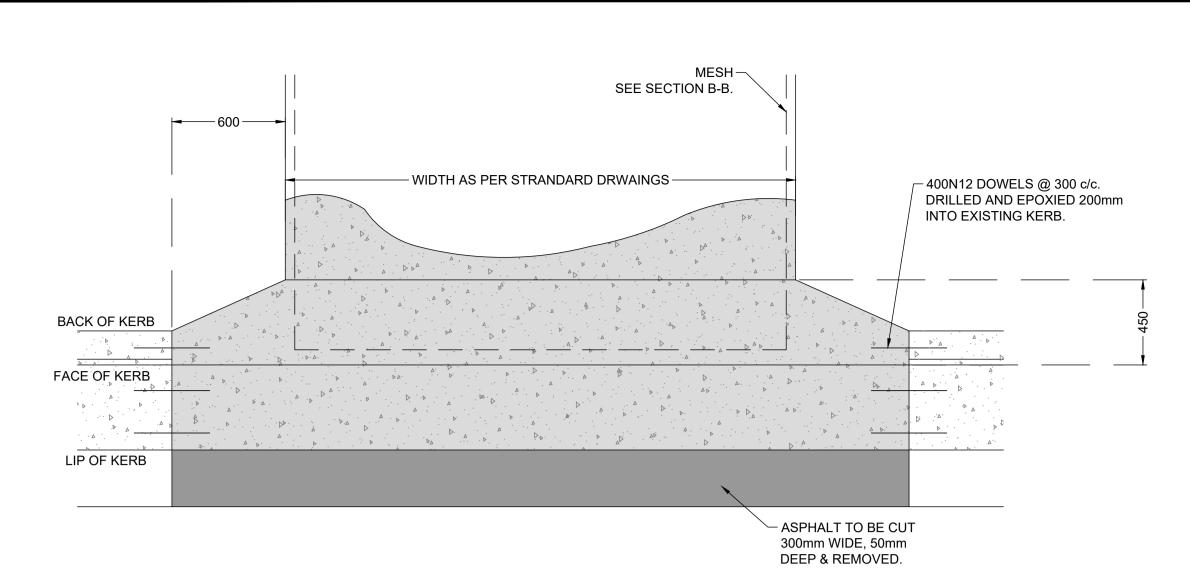
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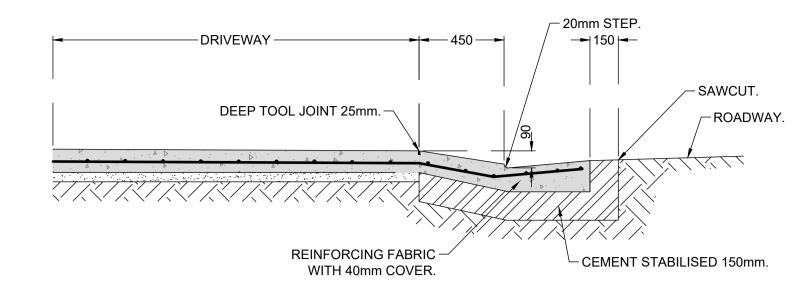
Drawing Title
DRIVEWAYS AND KERB LAYBACKS

A1 1 OF 2 Sheet Drawing No. SCSD-201 Version 1



PLAN - FULL LAYBACK CONSTRUCTION FOR RESIDENTIAL AND COMMERCIAL NTS

LAYBACK				
LAYBACK & VEHICULAR CROSSINGS STANDARD	LAYBACK THICKNESS	REINFORCING FABRIC		
LIGHT DUTY (RESIDENTIAL DWELLINGS)	150	SL72		
MEDIUM DUTY (RESIDENTIAL TOWN HOUSES & HOME UNITS)	150	2 x SL72		
HEAVY DUTY (INDUSTRIAL & COMMERCIAL)	200	2 x SL72		



TYPICAL SECTION - LAYBACK NTS

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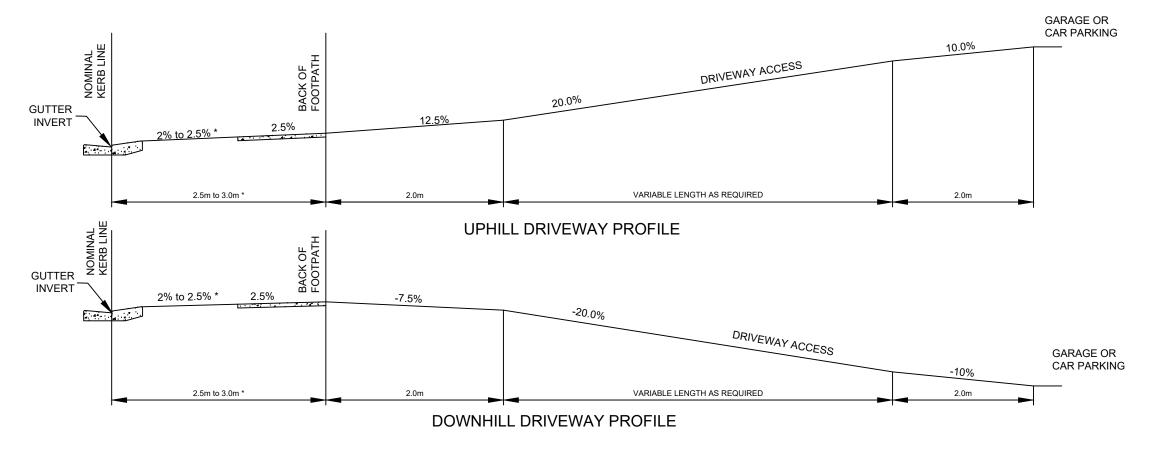
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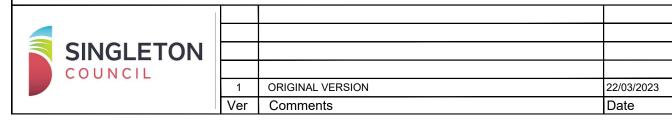
Sheet 2 OF 2 Drawing No. SCSD-201 Version 1



* depending on footway width (SCSD-303)

NOTES

- GRADING AND DIMENSIONS SHOWN SATISFY REQUIREMENTS OF AS/NZS 2890.1:2004 FOR B85 VEHICLES.
- THE RECOMMENDED MAXIMUM CHANGE IN GRADE ACROSS A HINGE POINT SHOULD BE LIMITED TO 12.5% FOR A CONVEX TRANSITION OR 15% FOR A CONCAVE TRANSITION.
- 3. THE MAXIMUM GRADIENT OF A DOMESTIC DRIVE WAY WITHIN THE PROPERTY SHALL BE 1 in 5 (20%). WHERE EXISTING TOPOGRAPHY EXCEEDS 1 IN 5, THEN A MAXIMUM GRADE OF 1 IN 4 (25%) MAY BE USED WITH COUNCIL APPROVAL.
- 4. A 2.0m TRANSITION IS REQUIRED TO ANY PARKING AREA OR GARAGE AT A GRADE OF 10%.
- 5. WHERE AN ACCESS DRIVEWAY IS PROPOSED WITHIN AN OLDER DEVELOPED AREA AND WHERE A LARGE DIFFERENCE IN LEVEL BETWEEN THE EXISTING ROADWAY AND THE PROPERTY BOUNDARY OCCURS, THEN A SITE SPECIFIC DESIGN MAY BE REQUIRED WHICH MAY INCLUDE LOWERING THE EXISTING FOOTPATH. THESE ARE NON-STANDARD TREATMENTS AND WILL REQUIRE DESIGN BY A SUITABLY QUALIFIED PROFESSIONAL.
- 6. THE GRADES INDICATED WILL PROVIDE SATISFACTORY VEHICULAR ACCESS FOR MOST STANDARD VEHICLES. PROPERTY OWNERS SHOULD BE AWARE THAT SOME DIFFICULTIES WITH ACCESS MAY STILL OCCUR WITH MODIFIED VEHICLES, EXOTIC SPORTS CARS, AND TRAILERS INCLUDING CARAVANS AND BOAT TRAILERS.
- 7. ANY PROFILE EXCEEDING ANY OF THESE MAXIMUM SLOPES WILL REQUIRE COUNCIL APPROVAL.



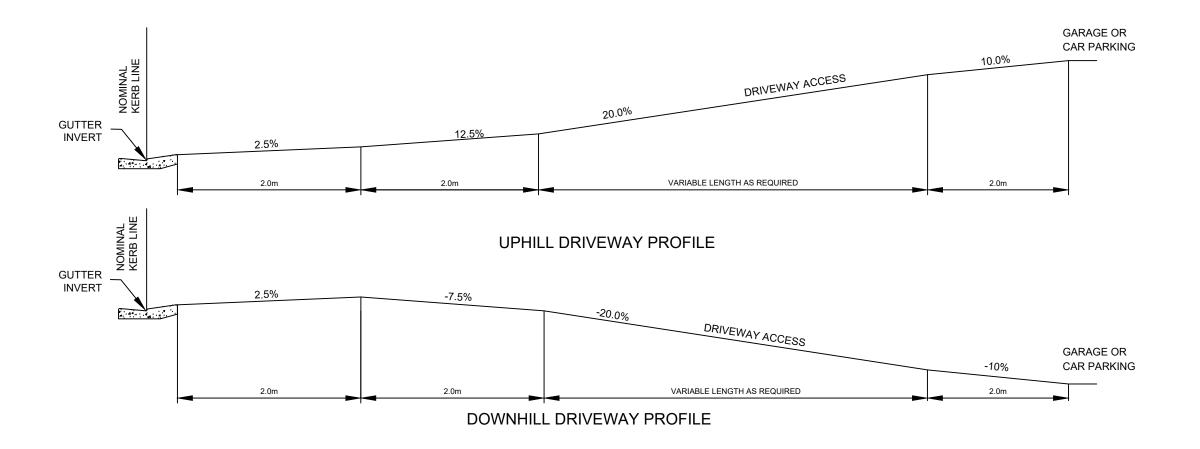
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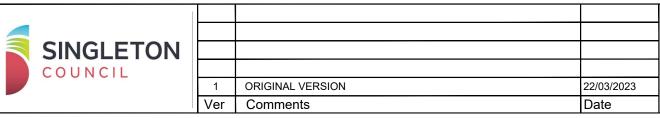
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DRIVEWAY PROFILES - MAXIMUM GRADES
WITH FOOTPATH

WITH FOOTE	PATH		
Sheet	1 OF 3		A3
Drawing No.	SCSD-202	Version	1



- GRADING AND DIMENSIONS SHOWN SATISFY REQUIREMENTS OF AS/NZS 2890.1:2004 FOR B85 VEHICLES.
- 2. THE RECOMMENDED MAXIMUM CHANGE IN GRADE ACROSS A HINGE POINT SHOULD BE LIMITED TO 12.5% FOR A CONVEX TRANSITION OR 15% FOR A CONCAVE TRANSITION.
- 3. THE MAXIMUM GRADIENT OF A DOMESTIC DRIVE WAY WITHIN THE PROPERTY SHALL BE 1 in 5 (20%). WHERE EXISTING TOPOGRAPHY EXCEEDS 1 IN 5, THEN A MAXIMUM GRADE OF 1 IN 4 (25%) MAY BE USED WITH COUNCIL APPROVAL.
- A 2.0m TRANSITION IS REQUIRED TO ANY PARKING AREA OR GARAGE AT A GRADE OF 10%.
- 5. WHERE AN ACCESS DRIVEWAY IS PROPOSED WITHIN AN OLDER DEVELOPED AREA AND WHERE A LARGE DIFFERENCE IN LEVEL BETWEEN THE EXISTING ROADWAY AND THE PROPERTY BOUNDARY OCCURS, THEN A SITE SPECIFIC DESIGN MAY BE REQUIRED WHICH MAY INCLUDE LOWERING THE EXISTING FOOTPATH. THESE ARE NON-STANDARD TREATMENTS AND WILL REQUIRE DESIGN BY A SUITABLY QUALIFIED PROFESSIONAL.
- 6. THE GRADES INDICATED WILL PROVIDE SATISFACTORY VEHICULAR ACCESS FOR MOST STANDARD VEHICLES. PROPERTY OWNERS SHOULD BE AWARE THAT SOME DIFFICULTIES WITH ACCESS MAY STILL OCCUR WITH MODIFIED VEHICLES, EXOTIC SPORTS CARS, AND TRAILERS INCLUDING CARAVANS AND BOAT TRAILERS.
- 7. ANY PROFILE EXCEEDING ANY OF THESE MAXIMUM SLOPES WILL REQUIRE COUNCIL APPROVAL.



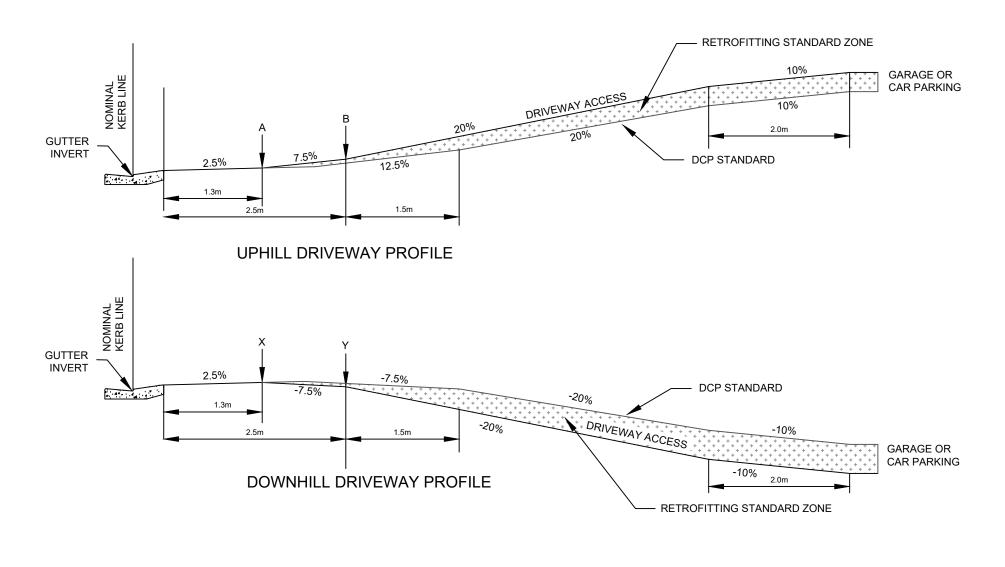
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DRIVEWAY PROFILES - MAXIMUM GRADES
WITHOUT FOOTPATH

WITHOUT FOOTPATH							
	Sheet	2 OF 3		A3			
	Drawing No.	SCSD-202	Version	1			



- GRADING AND DIMENSIONS SHOWN SATISFY REQUIREMENTS OF AS/NZS 2890.1:2004 FOR B85 VEHICLES.
- 2. THE RECOMMENDED MAXIMUM CHANGE IN GRADE ACROSS A HINGE POINT SHOULD BE LIMITED TO 12.5% FOR A CONVEX TRANSITION OR 15% FOR A CONCAVE TRANSITION.
- 3. THE MAXIMUM GRADIENT OF A DOMESTIC DRIVE WAY WITHIN THE PROPERTY SHALL BE 1 in 5 (20%). WHERE EXISTING TOPOGRAPHY EXCEEDS 1 IN 5, THEN A MAXIMUM GRADE OF 1 IN 4 (25%) MAY BE USED WITH COUNCIL APPROVAL.
- 4. A 2.0m TRANSITION IS REQUIRED TO ANY PARKING AREA OR GARAGE AT A GRADE OF 10%.
- 5. WHERE AN ACCESS DRIVEWAY IS PROPOSED WITHIN AN OLDER DEVELOPED AREA AND WHERE A LARGE DIFFERENCE IN LEVEL BETWEEN THE EXISTING ROADWAY AND THE PROPERTY BOUNDARY OCCURS, THEN A SITE SPECIFIC DESIGN MAY BE REQUIRED WHICH MAY INCLUDE LOWERING THE EXISTING FOOTPATH. THESE ARE NON-STANDARD TREATMENTS AND WILL REQUIRE DESIGN BY A SUITABLY QUALIFIED PROFESSIONAL.

POINT A 1.3m BEHIND & 30mm ABOVE TOP

POINT B 2.5m BEHIND & 120mm ABOVE TOP

POINT X 1.3m BEHIND & 30mm ABOVE TOP

POINT Y 2.5m BEHIND & 60mm BELOW TOP

OF LAYBACK

OF LAYBACK

OF LAYBACK

OF LAYBACK

- 6. THE GRADES INDICATED WILL PROVIDE SATISFACTORY VEHICULAR ACCESS FOR MOST STANDARD VEHICLES. PROPERTY OWNERS SHOULD BE AWARE THAT SOME DIFFICULTIES WITH ACCESS MAY STILL OCCUR WITH MODIFIED VEHICLES, EXOTIC SPORTS CARS, AND TRAILERS INCLUDING CARAVANS AND BOAT TRAILERS.
- 7. ANY PROFILE EXCEEDING ANY OF THESE MAXIMUM SLOPES WILL REQUIRE COUNCIL APPROVAL.
- 8. ALL DESIGNS WITHIN THE RETROFITTING STANDARD ZONE ARE ACCEPTABLE.

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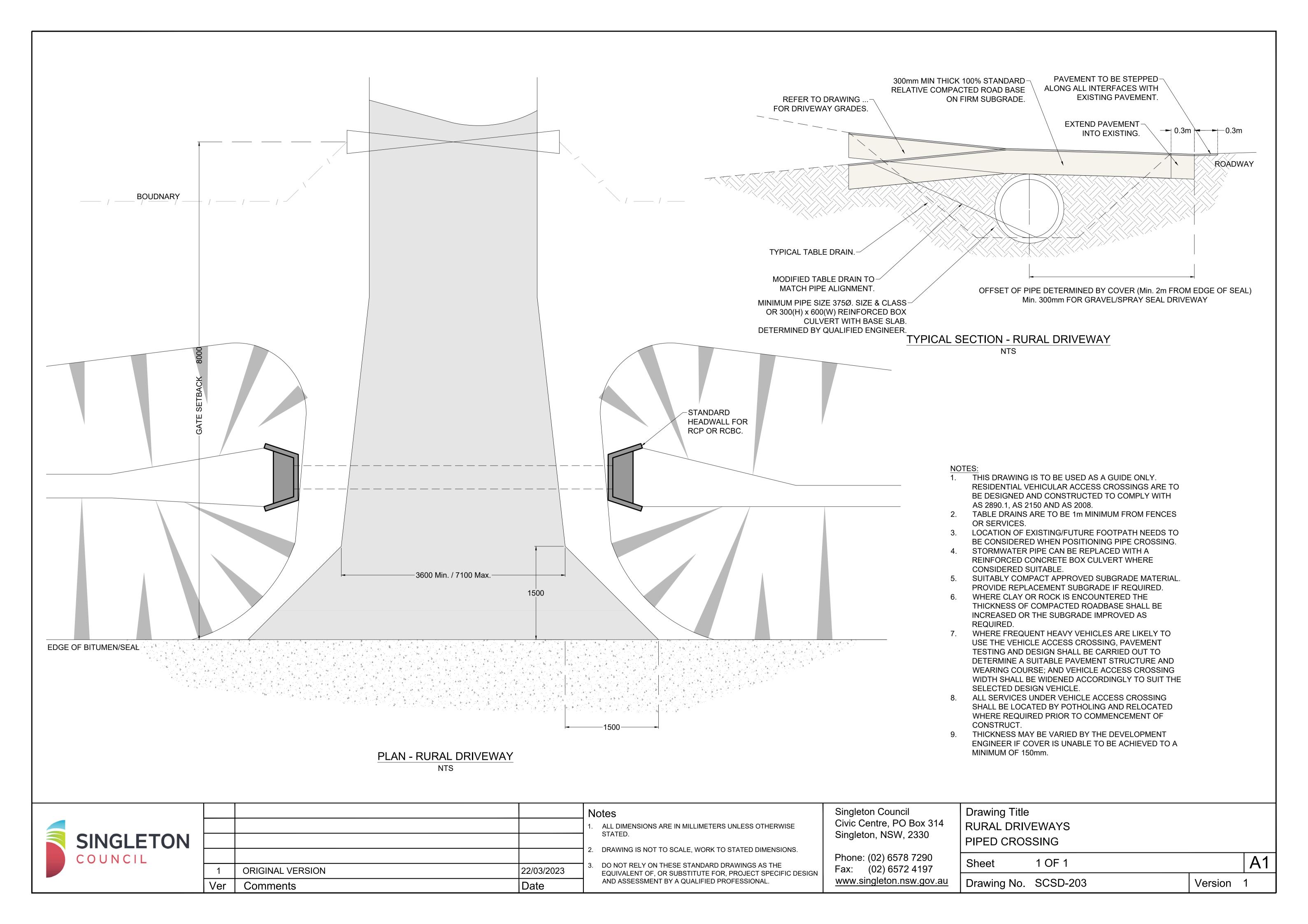
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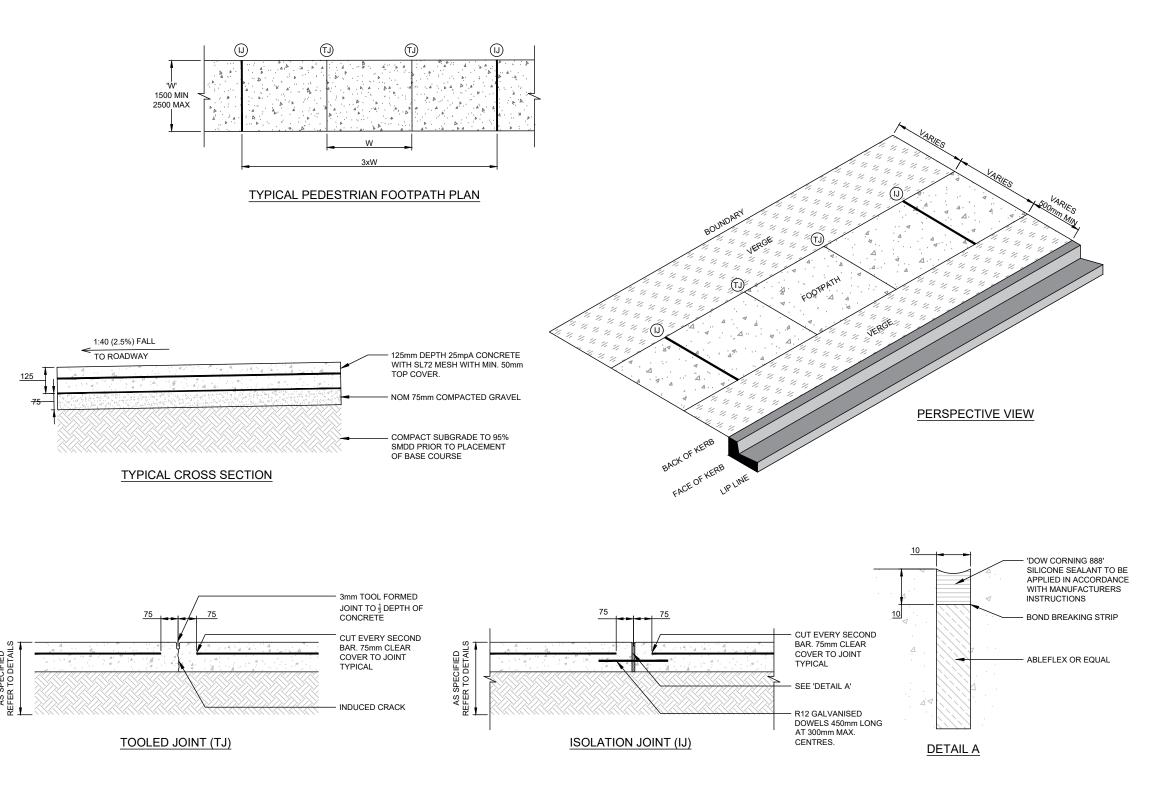
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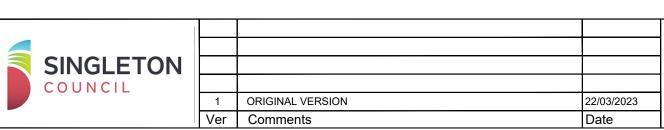
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DRIVEWAY PROFILES - NON STANDARD
SOLUTION WITHOUT FOOTPATH

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Sheet	3 OF 3		A3
Drawing No.	SCSD-202	Version	1





- STANDARDS SHOWN ARE THE MINIMUM REQUIREMENTS ONLY.
- ALIGNMENT OF PATHS ARE TO BE IN ACCORDANCE WITH APPROVED PLANS OR AS NOMINATED BY COUNCIL.
- . ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH CURRENT AUSTRALIAN STANDARDS, IN PARTICULAR AS3600 AND AS3727 AS WELL AS ANY COUNCIL REQUIREMENTS.
- MAXIMUM CROSS FALL IS TO BE 1:40 (2.5%) IN ACCORDANCE WITH AS1429 REQUIREMENTS.
- SUB BASE TO BE LAID ON APPROVED COMPACTED NATURAL SUB-GRADE. UNSUITABLE SUB-GRADE IS TO BE REMOVED AND REPLACED WITH A MINIMUM OF 75mm COMPACTED 10mm SIZE CLASS 3 FCR OR SAND
- S. JOINTS ARE TO BE SMOOTH WITH MINIMAL IRREGULARITIES. CONCRETE TO BE FINISHED FLUSH WITH THE TOP OF EACH JOINT SECTION.
- DOWELS ARE TO BE ALIGNED PARALLEL TO THE SURFACE AND THE PAVEMENT CENTRELINE. ALL DOWELS AND JOINT FORMERS ARE TO BE GALVANISED.
- 8. FINISHED LEVEL OF ANY PATH ABUTTING A WALL MUST BE BELOW THE DAMP PROOF COURSE AND MUST NOT OBSCURE ANY WEEP HOLES OR DRAINAGE OPENINGS.
- BROOM FINISH TO BE PROVIDED TRANSVERSE TO THE PAVEMENT WITH A 75mm EDGE TOOLING OF ALL JOINTS AND EDGES. BROOM FINISH IS TO EXTEND TO EDGE OF SLAB OVER EDGE TOOLING TYPICAL TO ALL JOINTS AND EDGES TO MEET AS4586 & AS3661.1.
- CONCRETE TO BE CURED BY USE OF PLASTIC SHEETING, DAMP SAND OR COMMERCIAL CURING COMPOUNDS.
- 11. DISTURBED AREAS ARE TO BE MADE GOOD AND SEEDED OR TURFED AS REQUIRED.
- 12. EXCAVATED MATERIALS SHALL BE REMOVED FROM SITE WHEN EXCAVATED.
- 13. TOLERANCES:
- CHANGE IN HEIGHT EACH SIDE OF JOINT = 3mm
- THICKNESS +20mm/-0mm
- UNDULATION IN ALL DIRECTIONS: 1mm OVER 250mm, 5mm OVER 1.5m, 10mm OVER 3m OR JOINT TO JOINT (WHICHEVER IS GREATER)



Notes

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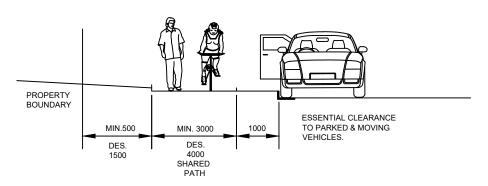
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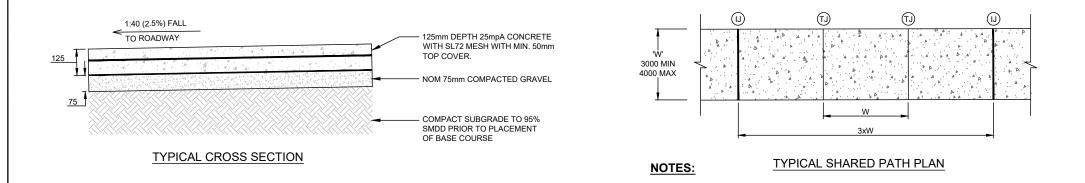
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 1 OF 2
 A3

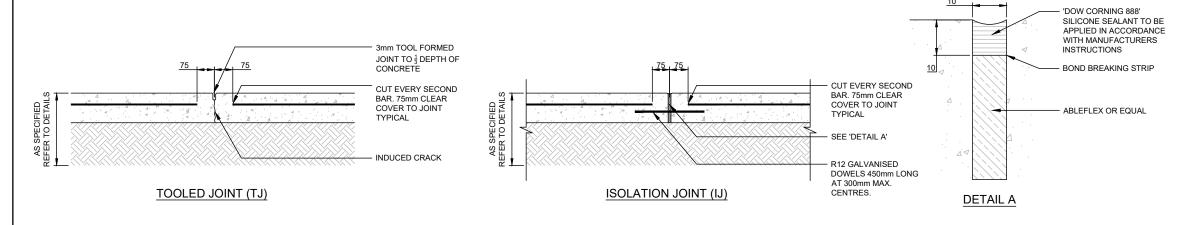
 Drawing No.
 SCSD-301
 Version
 1

* DES = DESIRABLE



DESIRABLE CLEARANCE OF SHARED PATH TO ROAD





NOTES:

- STANDARDS SHOWN ARE THE MINIMUM REQUIREMENTS ONLY.
- SHARED PATHS SIGNAGE SHALL BE PROVIDED AND LOCATED GENERALLY IN ACCORDANCE WITH AUSTROADS AND RMS STANDARDS.
- ALIGNMENT OF PATHS ARE TO BE IN ACCORDANCE WITH APPROVED PLANS OR AS NOMINATED BY COUNCIL.
- 4. ALL WORKMANSHIP AND MATERIALS SHALL COMPLY WITH CURRENT AUSTRALIAN STANDARDS, IN PARTICULAR AS3600 AND AS3727 AS WELL AS ANY COUNCIL REQUIREMENTS.
- 5. MAXIMUM CROSS FALL IS TO BE 1:40 (2.5%) IN ACCORDANCE WITH AS1429 REQUIREMENTS.
- 6. SUB BASE TO BE LAID ON APPROVED COMPACTED NATURAL SUB-GRADE. UNSUITABLE SUB-GRADE IS TO BE REMOVED AND REPLACED WITH A MINIMUM OF 75mm COMPACTED 10mm SIZE CLASS 3 FCR OR SAND
- 7. JOINTS ARE TO BE SMOOTH WITH MINIMAL IRREGULARITIES. CONCRETE TO BE FINISHED FLUSH WITH THE TOP OF EACH JOINT SECTION.
- 8. DOWELS ARE TO BE ALIGNED PARALLEL TO THE SURFACE AND THE PAVEMENT CENTRELINE. ALL DOWELS AND JOINT FORMERS ARE TO BE GALVANISED.
- FINISHED LEVEL OF ANY PATH ABUTTING A WALL MUST BE BELOW THE DAMP PROOF COURSE AND MUST NOT OBSCURE ANY WEEP HOLES OR DRAINAGE OPENINGS.
- 10. BROOM FINISH TO BE PROVIDED TRANSVERSE TO THE PAVEMENT WITH A 75mm EDGE TOOLING OF ALL JOINTS AND EDGES. BROOM FINISH IS TO EXTEND TO EDGE OF SLAB OVER EDGE TOOLING TYPICAL TO ALL JOINTS AND EDGES TO MEET AS4586 & AS3661.1.
- 11. CONCRETE TO BE CURED BY USE OF PLASTIC SHEETING, DAMP SAND OR COMMERCIAL CURING COMPOUNDS.
- 12. DISTURBED AREAS ARE TO BE MADE GOOD AND SEEDED OR TURFED AS REQUIRED.
- 13. EXCAVATED MATERIALS SHALL BE REMOVED FROM SITE WHEN EXCAVATED.
- 14. TOLERANCES:
- CHANGE IN HEIGHT EACH SIDE OF JOINT = 3mm
- THICKNESS +20mm/-0mm
- UNDULATION IN ALL DIRECTIONS: 1mm OVER 250mm, 5mm OVER 1.5m, 10mm OVER 3m OR JOINT TO JOINT (WHICHEVER IS GREATER)

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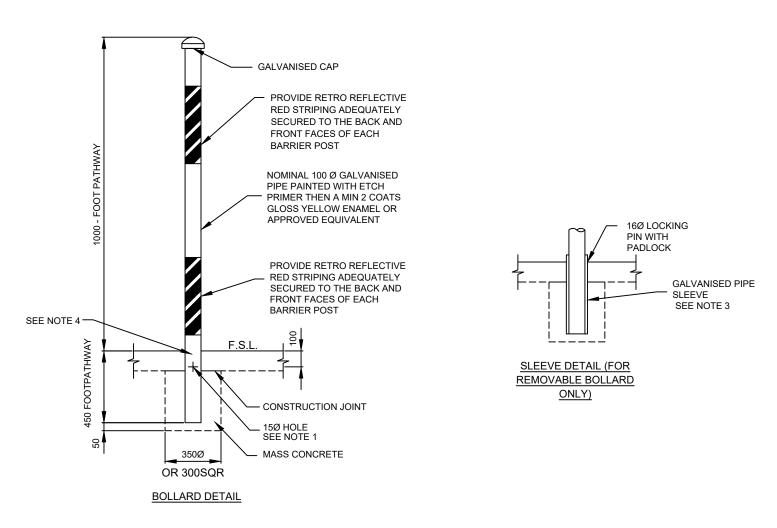
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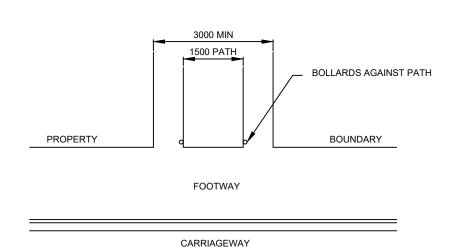
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Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au Drawing Title
CONCRETE SHARED PATH

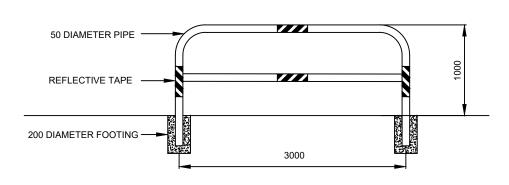
Sheet 2 OF 2 A3

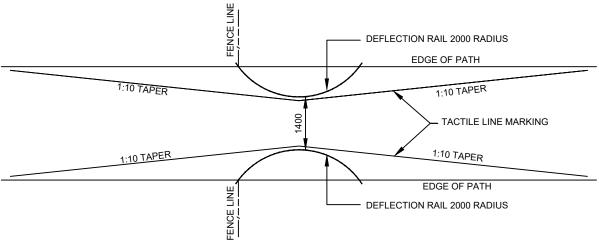
Drawing No. SCSD-301 Version 1





FOOT PATH PLAN

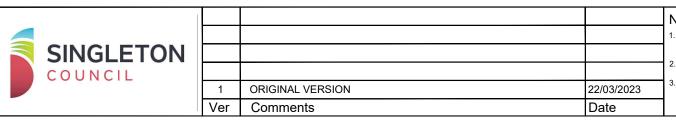




SHARED PATH PLAN DEFLECTION RAIL

NOTES:

- PLACE 150mm N12 BAR IN HOLE BEFORE FIXING INTO PLACE.
- 2. ALL STEEL TO BE HOT DIPPED GALVANISED OR APPROVED EQUIVALENT.
- 3. WHERE PATHWAYS ARE USED FOR MAINTENANCE OR EMERGENCY VEHICLE ACCESS, BOLLARDS AT ONE END OF THE PATH ARE TO BE REMOVABLE WITH LOCKING PIN.
- 4. CONSIDERATION TO BE GIVEN TO 1800mm HIGH BOLLARDS AND 600mm DEEP FOOTINGS FOR SHARED PATHWAYS.



Notes

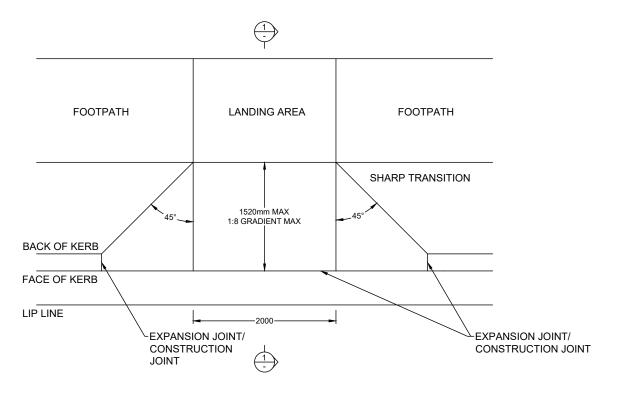
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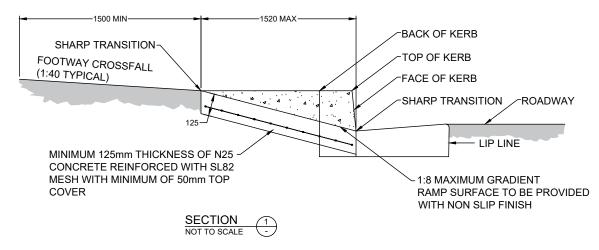
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 Sheet
 1 OF 1
 A3

 Drawing No.
 SCSD-302
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KERB RAMP CROSSING WITH GUTTER PLAN VIEW



NOTE:
REFER TO SCSD-305 FOR ADDITIONAL SECTIONS.

NOTES:

TOP OF RAMP: THERE SHALL BE A MINIMUM OBSTRUCTION FREE WHEELCHAIR TURNAROUND DISTANCE OF 1500mm BEYOND THE TOP OF THE RAMP. THE SHARP TRANSITION AT THE TOP AND BOTTOM OF THE RAMP SHALL BE PERPENDICULAR TO THE DIRECTION OF TRAVEL.

RAMP: MAXIMUM RAMP SLOPE FOR WHEELCHAIR ACCESS IS 1:8. A SHARP TRANSITION (NO ROUNDING) IS TO BE MAINTAINED AT THE INTERSECTION OF GRADED PLANE SURFACES (TOP AND BOTTOM OF RAMP AND INTERSECTION OF RAMP AND WINGS). THE INTERSECTION OF THE ROMP AND WINGS SHOULD BE A TOOLED JOINT.

RAMP ALIGNMENT: RAMPS SHALL BE ALIGNED PARALLEL TO THE PEDESTRIAN DIRECTION OF TRAVEL. RAMPS ON BOTH SIDES OF A ROADWAY SHALL BE ALIGNED WITH ONE ANOTHER AND THE DIRECTION OF TRAVEL.

KERB RAMP WINGS: THE REQUIRED WING ANGLE IS 45° SUBJECT TO APPROVAL, WINGS MAY BE ANGLED AT LESS THAN 45° IF THE WING IS REQUIRED TO BE CLEAR OF TRAFFIC SIGNAL HARDWARE, OTHER WINGS OR UTILITY PITS/MANHOLES. WING ANGLE MAY ALSO BE REDUCED AT OBTUSE ANGLED INTERSECTIONS. A SLOPE NO STEEPER THAN 1:4 IS TO BE MAINTAINED ON THE WINGS.

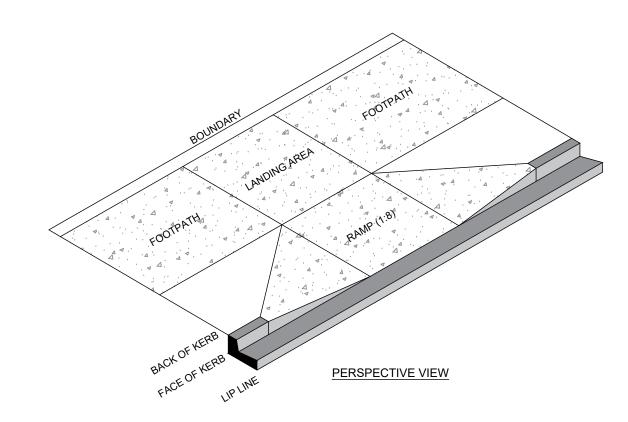
SURFACE OF RAMP AND SLOPING SIDES SHALL BE SLIP RESISTANT AS SPECIFIED IN AS1428.1

KERB RAMPS ARE TO BE ALIGNED WITH THE DESIRED DIRECTION OF PEDESTRIAN TRAVEL. THE DIRECTION OF A KERB RAMP MUST BE ALIGNED TO THE CORRESPONDING RAMP ON THE OTHER SIDE OF THE ROAD.

SEPARATE KERB RAMPS MUST BE CONSTRUCTED FOR EACH DIRECTION OF PEDESTRIAN TRAVEL AND 1.0m CLEARANCE PROVIDED BETWEEN RAMPS.

CONCRETE TO BE 25MPa. RAMP TO BE CAST MONOLITHICALLY WITH THE CHANNEL OR TRAY.

EXCAVATED MATERIALS SHALL BE REMOVED FROM SITE WHEN EXCAVATED.



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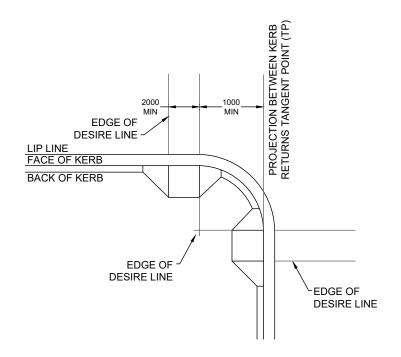
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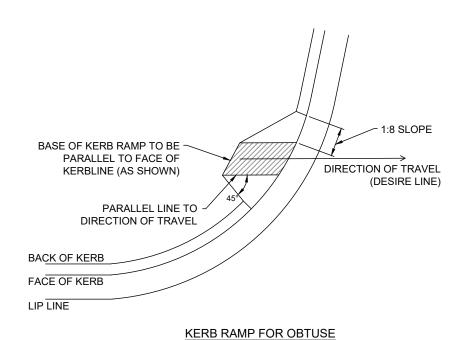
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KERB RAMPS	

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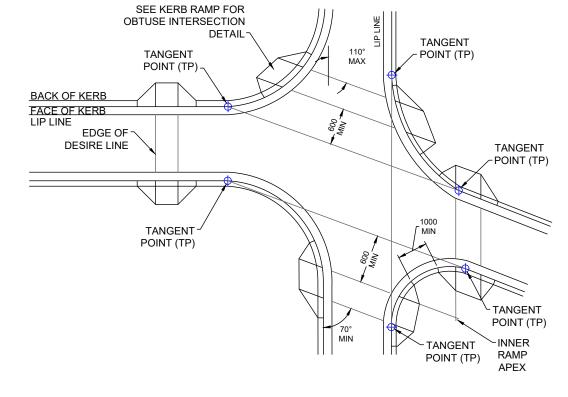
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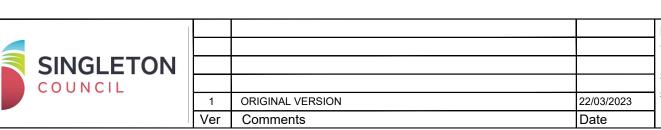
PRAM RAMPS WITH ADJACENT CROSSINGS



INTERSECTION



ALIGNED KERB RAMPS



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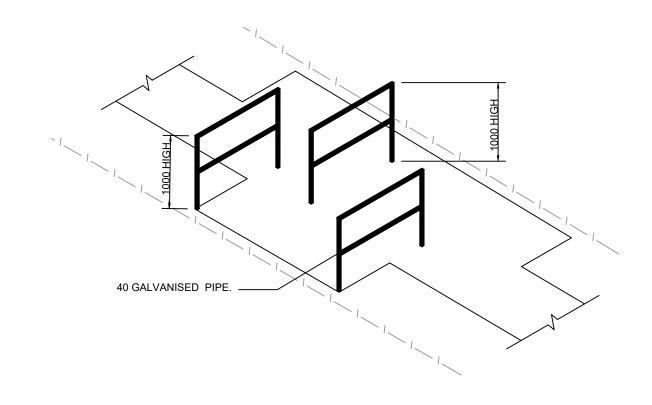
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Sheet 2 OF 2 A3

Drawing No. SCSD-303 Version 1

LOCAL STREET OR RESERVE **PROPERTY** PROPERTY MIN 1600 NEW FOOTPATH **EXTENSION** MIN 1600 TYPICALLY 40 GALVANISED POSTS INSTALLED IN GALVANISED V-LOCK. NEW FOOTPATH EXTENSION -MIN 1600 INSTALL RAILS AT THE REAR OF THE PROPERTY EXISTING FOOTPATH VARIABLE WIDTH

LOCAL STREET OR RESERVE



NOTES:

- VERIFY PUBLIC UTILITY LOCATIONS BEFORE ANY EXCAVATION
- 2. IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE SINGLETON COUNCIL ENGINEERING GUIDELINES
- 3. READ IN CONJUNCTION WITH THE SINGLETON COUNCIL ENGINEERING GUIDELINES
- 4. WIDEN SECTIONS OF FOOTPATH, MAXIMUM SLOPE TO EXISTING FOOTPATH 1 IN 40
- 5. PEDESTRIAN RAILS WILL BE VARIABLE WIDTH DEPENDING ON SITE CONDITIONS, ALL RAILS ARE TO BE 1000mm HIGH, SET INTO V-LOCKS
- 6. REFLECTOR TAPE TO BE INSTALLED AT ALL CORNERS AND IN THE MIDDLE OF THE HORIZONTAL RAILS

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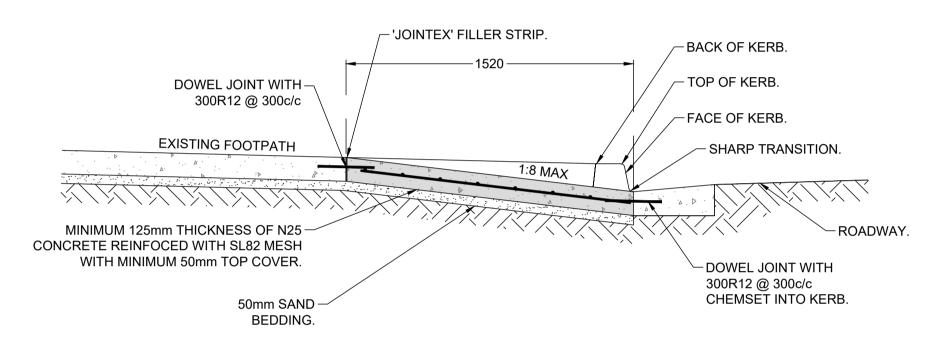
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Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au Drawing Title FOOTPATH CHICANE

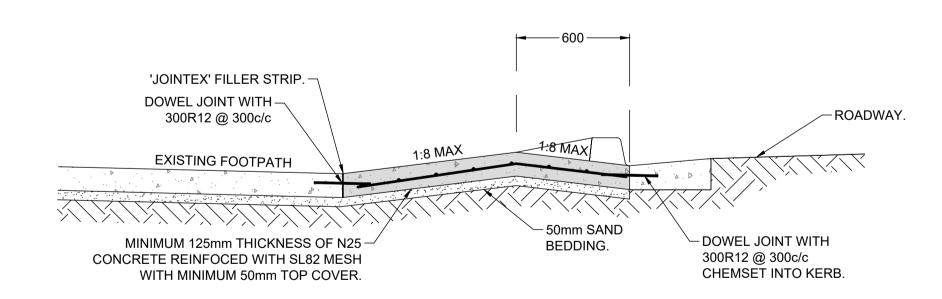
Sheet	1 OF 1		A3
Drawing No.	SCSD-304	Version	1

- 'JOINTEX' FILLER STRIP. DOWEL JOINT WITH-300R12 @ 300c/c 'JOINTEX' FILLER STRIP. -ROADWAY. - START RAMP AT **EXISTING FOOTPATH** INVERT. MINIMUM 125mm THICKNESS OF N25 CONCRETE REINFOCED WITH SL82 MESH - DOWEL JOINT WITH WITH MINIMUM 50mm TOP COVER. 300R12 @ 300c/c CHEMSET INTO KERB. 50mm SAND -BEDDING.

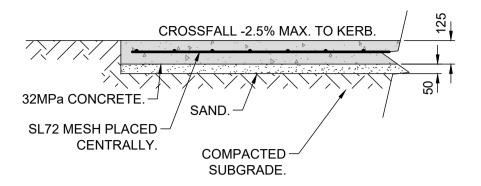
TYPICAL SECTION - ROLL 'RT' KERB NTS



TYPICAL SECTION - UPRIGHT 'SA' KERB



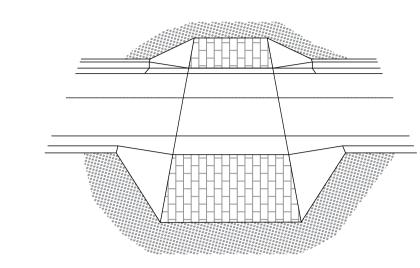
TYPICAL SECTION - LOW LEVEL FOOTPATH NTS



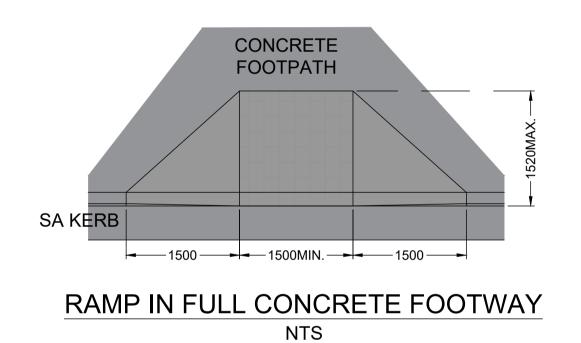
NOTES FOR CONCRETE FOOTPATHS:

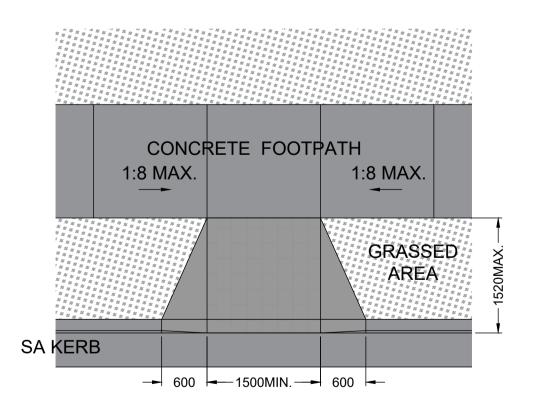
- 1. PROVIDE TRANSVERSE EXPANSION JOINTS EVERY 8.0m
- WITH 300R12 DOWELS @ 300 c/c

 PROVIDE TOOLED DUMMY JOINTS EVERY 2.0m FOR PAVEMENT LESS THAN 2.0m WIDE & 4.0 m FOR
- PAVEMENTS OVER 2.0m WIDE
 3. FINISH TO BE 'LIGHT BROOM'. BROOM OVER JOINTS



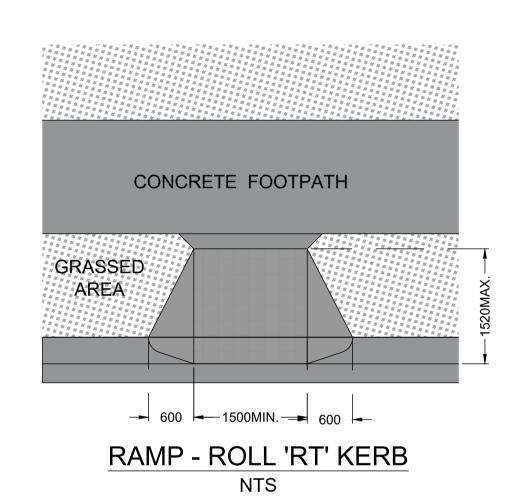
ALIGN RAMPS & PATTERNS TO OPPOSITE RAMP





RAMP IN GRASSED FOOTWAY

NTS



NOTES:

1. JOINTS TO EXISTING PAVEMENTS TO BE DOWELLED

2. ALL DISTURBED EARTH OR GRASSED AREAS TO BE

3. NEW SECTIONS OF FOOTPATH TO BE CONSTRUCTED IN

WITH 300R12 DOWELS @ 300c/c

ACCORDANCE WITH SCSD - 201

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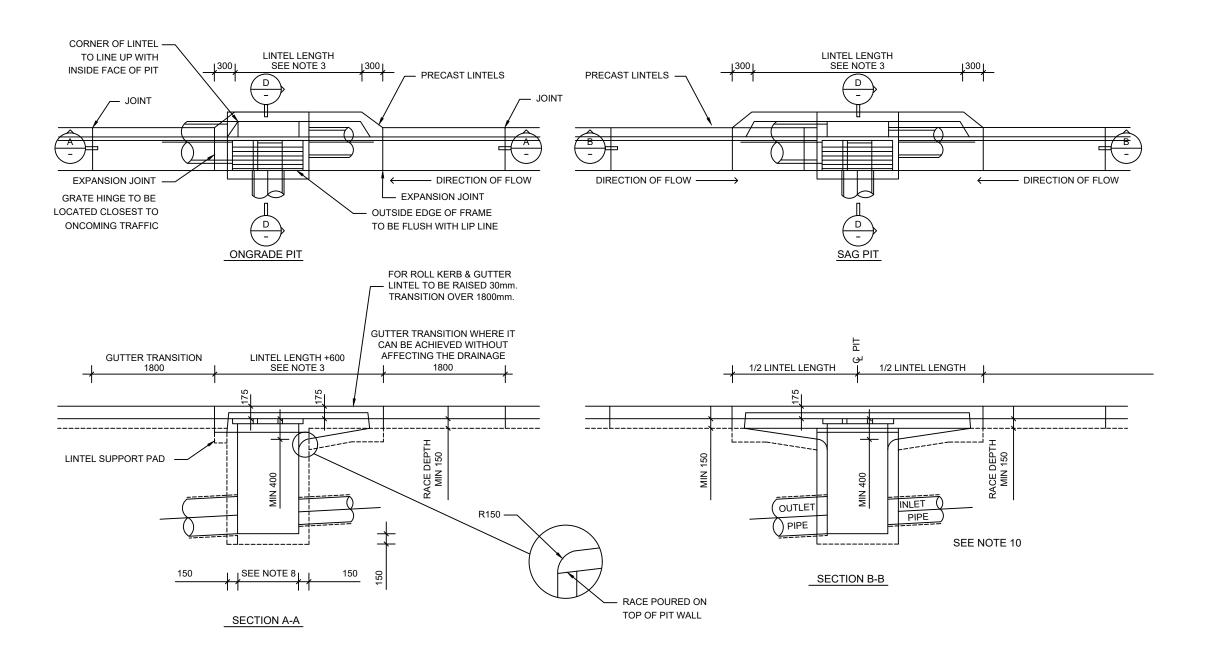
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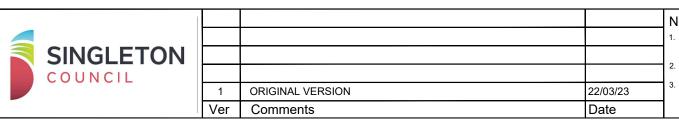
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KERB RAMPS CONSTRUCTION DETAILS

Sheet 1 OF 1 A1

Drawing No. SCSD-305 Version 1





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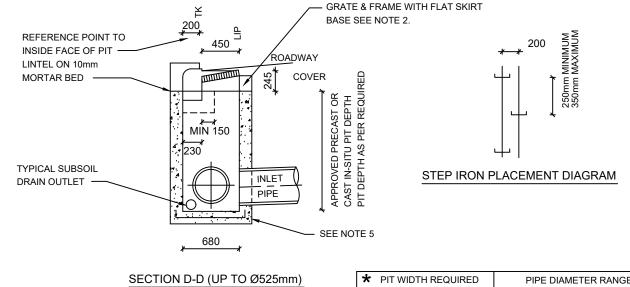
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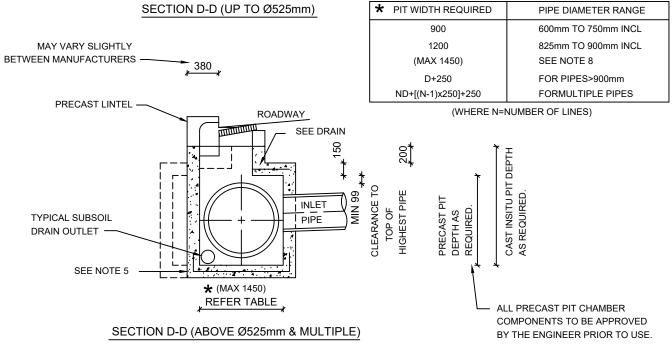
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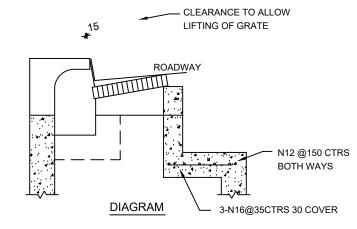
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GRATED GULLY PIT WITH
EXTENDED KERB INLET

Sheet 1 OF 2 A3

Drawing No. SCSD-401 Version 1







- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. GRATE AND FRAME TO BE HOT DIP GALVANISED 80-85 MICRONS THICK. ALL GRATES TO BE PROVIDED WITH HINGE PINS.
- 3. ALL LINTELS TO BE APPROVED PRECAST TYPE. DIMENSIONS SHOWN ON PLAN TO DENOTE CLEAR OPENINGS. MIN SIZE 1.2m DIMENSIONS MAY VARY BETWEEN MANUFACTURERS.
- 4. PROVIDE STEP IRONS FOR PITS DEEPER THAN 1.2m.
- 5. MINIMUM THICKNESS OF WALLS AND BASE TO BE 150mm.
- 6. ALL PITS TO HAVE A MINIMUM OF SL82 MESH IN BASE AND N12 `L" STARTER BARS (450 LEGS) @ 400 CTRS.
- 7. PITS BETWEEN 1.5m & 2.5m DEEP TO HAVE SL82 MESH CENTRALLY PLACED IN WALLS FOR FULL DEPTH WITH N12 'L' CORNER BARS (450 LEGS) @400 CTRS.
- 8. PITS DEEPER THAN 2.5m OR LONGER THAN 900 OR 1450 WIDE SHALL BE DESIGNED BY A QUALIFIED ENGINEER.
- 9. PITS POURED IN MULTIPLE HEIGHT SECTIONS SHALL INLCUDE SL82 MESH OR N12 STARTER BARS (400 LONG) @300 CTRS.
- 10 COMPRESSIVE STRENGTH (F $^{\prime}$ C) FOR CAST INSITU CONCRETE SHALL BE A MINIMUM 25 MPa@ 28 DAYS.
- 11. NO RENDERING PERMITTED IN STRUCTURAL COMPONENTS.
- 12. THIS STANDARD REFERS TO PITS CONSTRUCTED ADJACENT TO FLEXIBLE PAVEMENTS. TOTAL ISOLATION OF PITS IS REQUIRED ADJACENT TO RIGID PAVEMENTS.
- 13. ALL PITS TO BE ADEQUATELY STREAMLINED AND BENCHED.
- 14. WHERE A LINTEL IS REPLACED BY A DRIVEWAY ACCESS, A QUALIFIED ENGINEER IS TO CERTIFY THAT THERE IS NO LOSS OF CAPACITY IN THE DRAINAGE STRUCTURE.

STEP IRON NOTES:

1. STEP IRONS TO COMPLY TO AS 1657-1992



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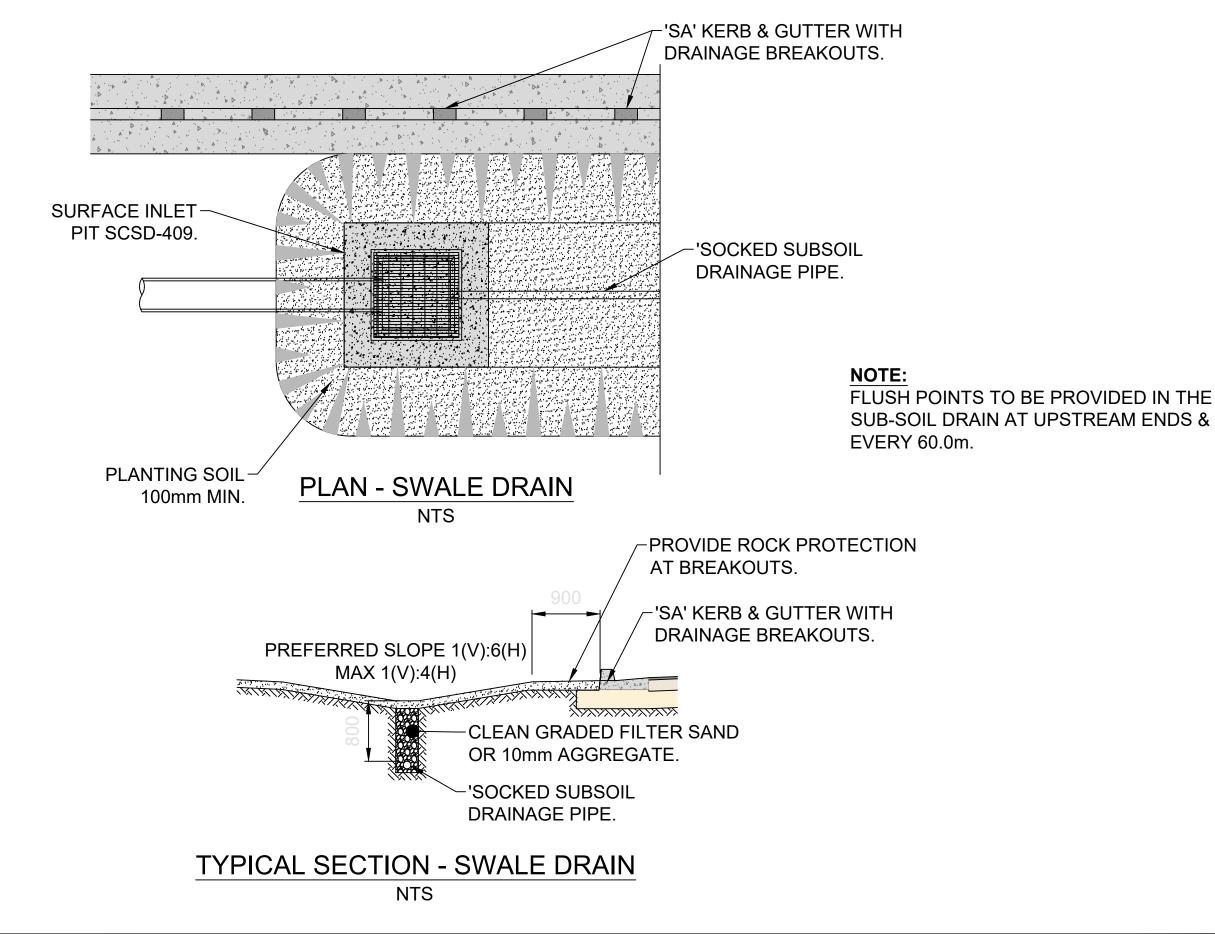
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GRATED GULLY PIT WITH
EXTENDED KERB INLET

Sheet 2 OF 2 A3

Drawing No. SCSD-401 Version 1



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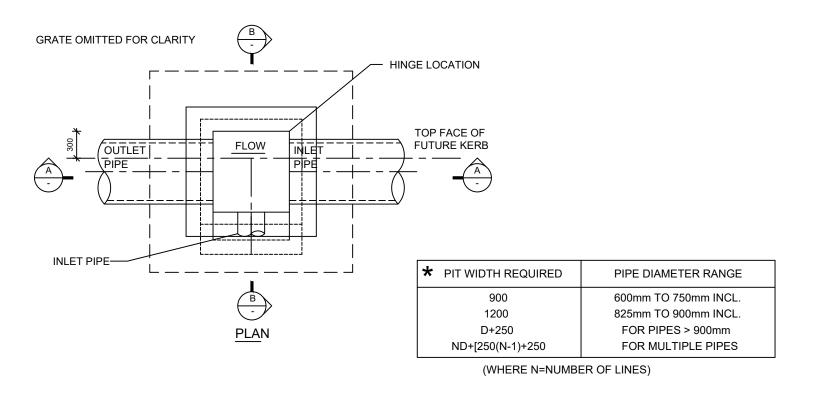
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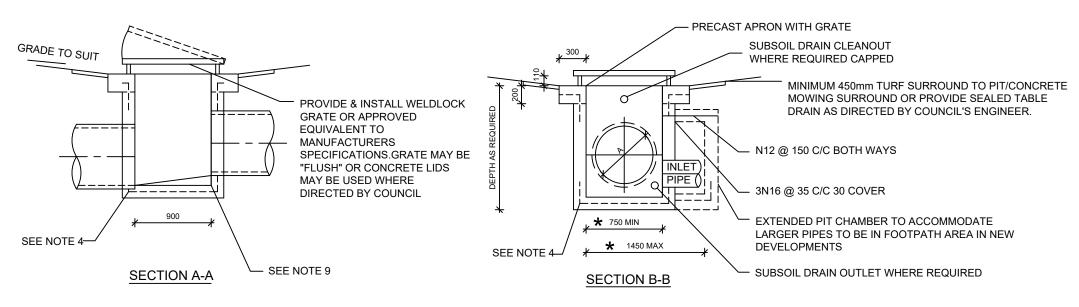
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DRAINAGE SWALE

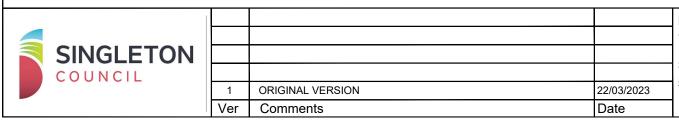
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 SCSD-402
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- 1. ALL DIMENSIONS ARE IN MILLIMETRES.
- 2. WELDLOCK GRATE SHOWN OR APPROVED EQUIVALENT TO BE USED. GRATE AND FRAME TO BE HOT DIP GALVANISED 80-85 MICRONS THICK. ALL GRATES TO BE PROVIDED WITH HINGE PINS & LOCKING BOLTS.
- 3. PROVIDE STEP IRONS FOR PITS DEEPER THAN 1.2m.
- 4. MINIMUM THICKNESS OF WALLS AND BASE TO BE 150mm.
- 5. ALL PITS TO HAVE A MINIMUM OF SL82 MESH IN BASE AND N12 "L" STARTER BARS (450 LEGS) @400 CTRS.
- 6. PITS BETWEEN 1.5m & 2.5m DEEP TO HAVE SL82 MESH CENTRALLY PLACED IN WALLS FOR FULL DEPTH WITH N12 "L" CORNER BARS (450 LEGS) @400 CTRS.
- 7. PITS DEEPER THAN 2.5m OR LONGER THAN 900 OR 1450 WIDE SHALL BE DESIGNED BY A QUALIFIED ENGINEER.
- 8. PITS POURED IN MULTIPLE HEIGHT SECTIONS SHALL INCLUDE SL82 MESH OR N12 STARTER BARS (400 LONG) @300 CTRS.
- COMPRESSIVE STRENGTH (FC) FOR CAST INSITU CONCRETE SHALL BE A MINIMUM 25 MPa @ 28 DAYS.
- 10. NO RENDERING PERMITTED IN STRUCTURAL COMPONENTS.
- 11. ALL PITS TO BE ADEQUATELY STREAMLINED AND BENCHED.
- 12. 100Ø SOCKED SUBSOIL DRAINAGE PIPE 3m LONG TO BE PROVIDED ADJACENT TO INLET PIPES.
- 13. WHERE NOMINATED BY THE ENGINEER PROVIDE MINIMUM 2 WHITE REFLECTORISED GUIDE POSTS EITHER SIDE OF PIT.
- 14. PITS TO BE LOCATED OUTSIDE CLEAR ZONE (REFER RTA GUIDELINES) UNLESS DIRECTED OTHERWISE.





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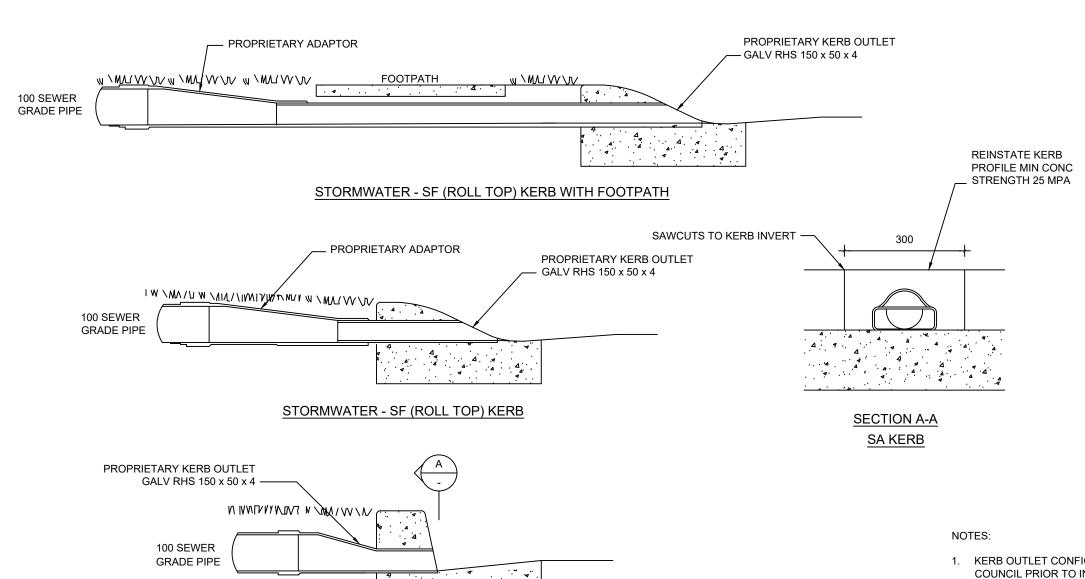
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RAISED GRATED "LETTERBOX"
OR "JUNCTION" PIT

Sheet 1 OF 1 A3

Version

Drawing No. SCSD-403



- KERB OUTLET CONFIGURATION TO BE APPROVED BY COUNCIL PRIOR TO INSTALLATION AND INSTALLED TO MANUFACTURER'S INSTRUCTIONS
- SEWER GRADE 100 DIA. PVC PIPE OR GALV.150X50 RHS WHERE COVER IS MINIMAL
- 3. ALL CONNECTIONS TO BE SEALED WITH SILICON BASED SEALANT
- 4. OUTLET SHALL BE PROVIDED ON THE LOW SIDE OF EACH LOT WITHIN 1000 FROM THE SIDE BOUNDARY ALIGNMENT OR OTHER APPROVED LOCATION
- 5. IN NEW CONSTRUCTION INVOLVING A CONCRETE FOOTPATH GALVANISED RHS 150x50x4 TO BE INSTALLED UNDER THE CONCRETE FOOTPATH AS WELL AS THROUGH KERB
- 6. ALL DIMENSIONS ARE IN MILLIMETRES

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Notes

STORMWATER OUTLET - SA (UPRIGHT) KERB

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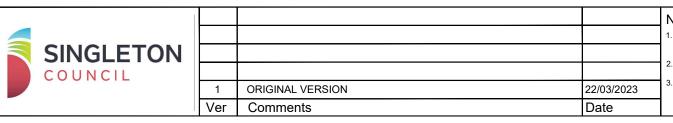
Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au Drawing Title
KERB STORMWATER OUTLET
AND KERB ADAPTER

	DAFILI		
Sheet	1 OF 1		A3
Drawing No.	SCSD-404	Version	1

PROVIDE LANDSCAPING OUTSIDE OF THE PROPOSED FLOW AREA. OVERLAND FLOWPATH- 4000 WIDE TYPICAL 150mm INTEGRAL KERB CONCRETE PATH - 1200 WIDE TYPICAL LOT LOT 1% MIN 1% MIN FINISHED/NATURAL NATURAL/FINISHED 4:1 MAX SURFACE CROSSFALL 2.5% (MAX) TOP SOIL & TURF TOP SOIL & TURF 50 SAND-MIN 125mm REINFORCED CONCRETE PATH SL72 CENTRAL

* WIDTH MAY BE INCREASED TO

DENOTES REQUIRED CAPACITY OF OVERLAND FLOW PATH TO BE SHOWN ON DETAIL DESIGN SUPPORTED BY HYDRAULIC CALCULATIONS, INCLUDING . VELOCITY DEPTH CHECK.



Notes

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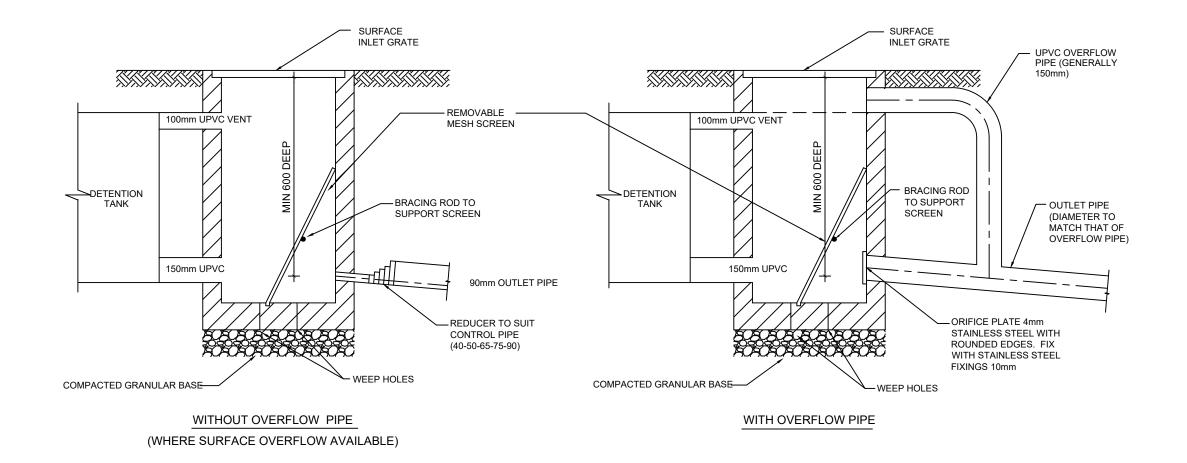
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OVERLAND FLOWPATH
CROSS SECTION

Sheet 1 OF 1

Drawing No. SCSD-405

Version 1

A3



- STORMWATER PIPES TO BE SEWER GRADE ACROSS PUBLIC FOOTWAY.
- 2. ALL DIMENSIONS ARE IN MILLIMETRES U.N.O.
- 3. CONCRETE COMPRESSIVE STRENGTH Fc25MPa.
- 4. SIDE WALLS OF ALL PITS DEEPER THAN 1500mm ARE TO BE REINFORCED WITH ONE LAYER OF SL82 MESH RETURNED 300mm INTO BASE. WHERE REQUIRED INCREASE CONCRETE STRENGTH TO Fc32MPa.
- 5. DEPTH OF PIT NO TO EXCEED 2000mm.
- 6. PROVIDE STEP IRONS FOR PITS DEEPER THAN 1.2m.
- 7. ALL EXPOSED EDGES TO BE ROUNDED WITH 20 RADIUS U.N.O.

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Notes

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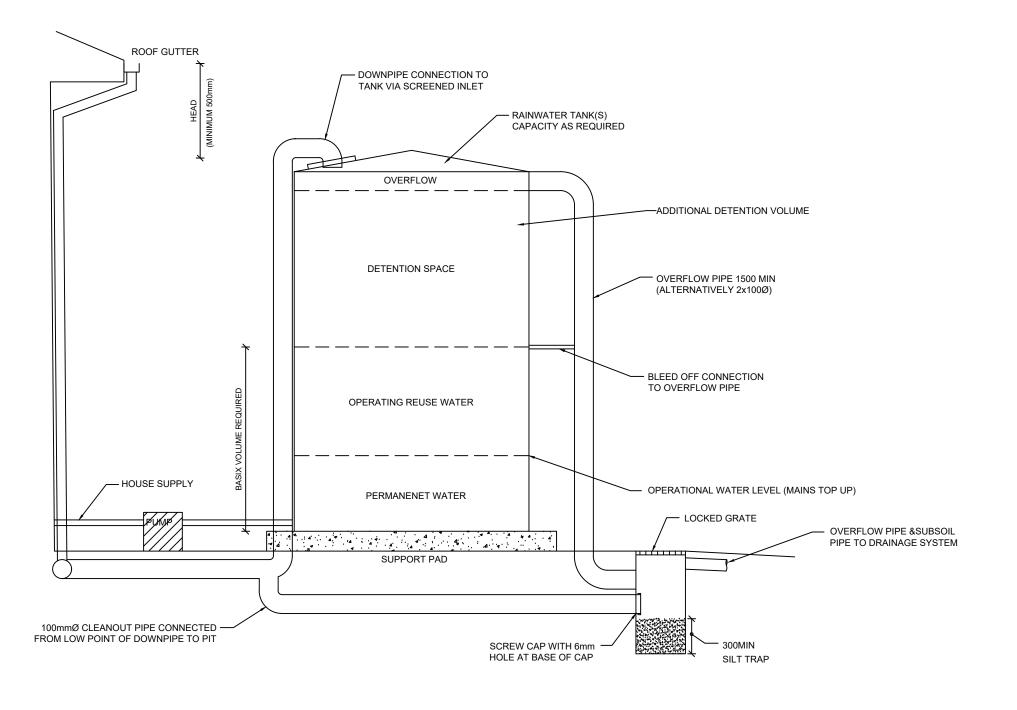
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ONSITE STORMWATER DETENTION
TANK AND CONTROL PIT

TANK AND CONTROL PIT

Sheet 1 OF 2 A3

Drawing No. SCSD-406 Version 1

 FIRST FLUSH DEVICE SHALL BE INSTALLED TO SATISFY THE BUILDING CODE OF AUSTRALIA & TO ENSURE MINIMUM "HEAD" IS MAINTAINED.



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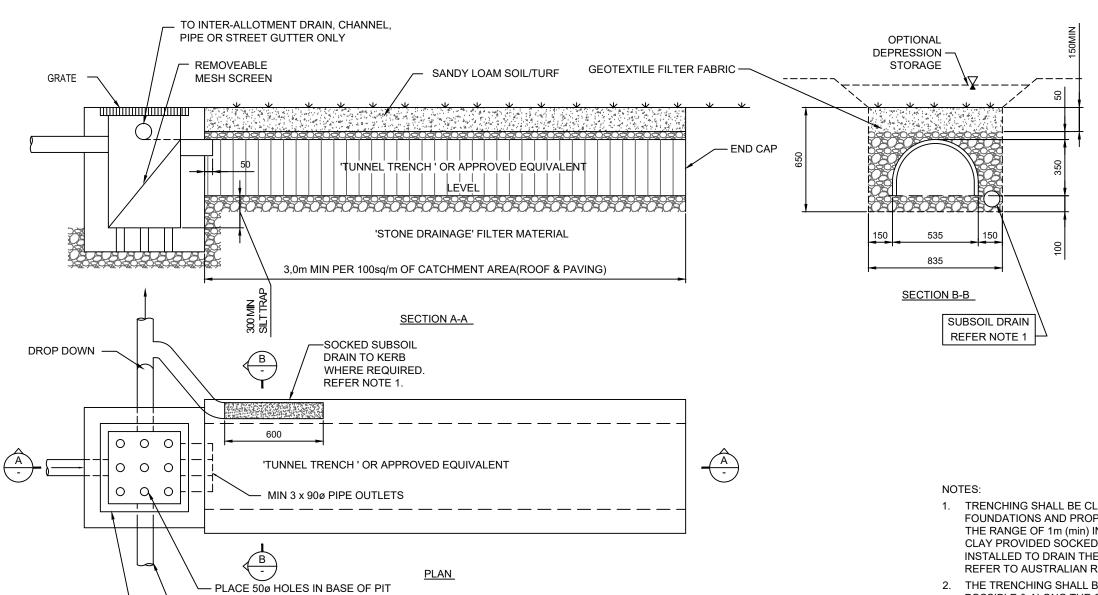
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Drawing Little	
RAINWATER	REUSE/DETENTION TANK

Sheet	2 OF 2		A3
Drawing No.	SCSD-406	Version	1



- TRENCHING SHALL BE CLEAR OF STRUCTURAL FOUNDATIONS AND PROPERTY BOUNDARIES WITHIN THE RANGE OF 1m (min) IN CLEAN SAND & 3m (min) IN CLAY PROVIDED SOCKED SUBSOIL DRAINAGE IS INSTALLED TO DRAIN THE TRENCH. IN CLAY SOIL, REFER TO AUSTRALIAN RUNOFF QUALITY SECTION 11.
- 2. THE TRENCHING SHALL BE PLACED LEVEL. WHERE POSSIBLE & ALONG THE CONTOUR OF THE LAND. DEPTH MAY BE VARIED TO SUIT.
- 3. THE TRENCHING SHALL BE PLACED DOWNHILL OF BUILDINGS AND TO ACHIEVE MAXIMUM AREA, SLOPING AWAY FROM THE TRENCH, FOR DISPERSAL OF WATER.
- 4. THE DISPERSAL AREA SHOULD BE CHOSEN TO AVOID OVERFLOW TOWARD A BUILDING OR ONTO ADJOINING PROPERTIES.
- 5. IT IS THE OWNERS RESPONSIBILITY TO REGULARLY CLEAN THE PIT & MAINTAIN THE SYSTEM.

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INLET PIPES AS REQUIRED

450 x 450 DEBRIS TRAP PIT

Votes

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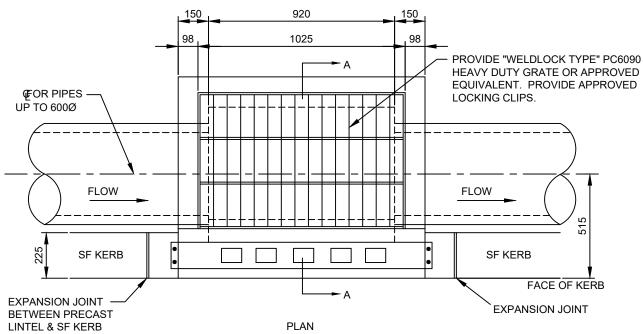
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Drawing Title ONSITE STORM WATER DISPOSAL TRENCH

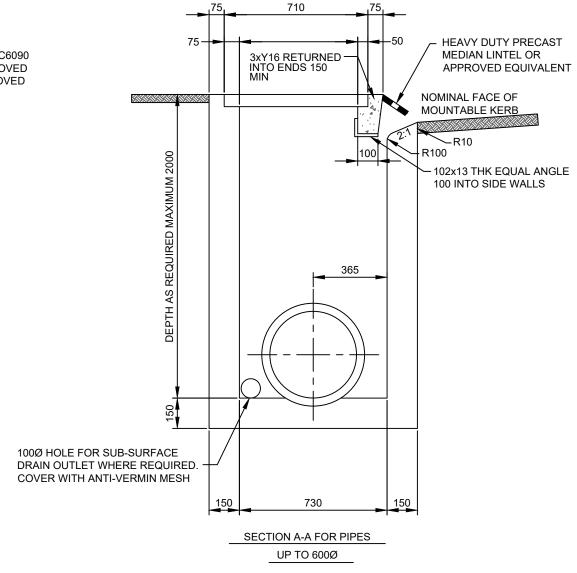
A3 1 OF 1 Sheet Drawing No. SCSD-407

Version 1





- GRATE, ANGLE & LINTEL PLATE TO BE HOT DIPPED GALVANISED.
- 2. PROVIDE STEP IRONS FOR PITS DEEPER THAN 1.2m.
- MINIMUM THICKNESS OF WALLS AND BASE TO BE 150mm.
- ALL PITS TO HAVE A MINIMUM OF SL82 MESH IN BASE AND N12 "L" STARTER BARS (450 LEGS)@400 CTRS.
- PITS DEEPER THAN 1.5m TO HAVE SL82 MESH CENTRALLY PLACED IN WALLS FOR FULL DEPTH WITH N12 "L" CORNER BARS (450 LEGS) @ 100 CTRS.
- DEPTH OF PIT NOT TO EXCEED 2000.
- PITS POURED IN MULTIPLE HEIGHT SECTIONS SHALL INCLUDE SL82 MESH OR N12 STARTER BARS (400 LONG)@300 CTRS.
- COMPRESSIVE STRENGTH (FC) FOR CAST INSITU CONCRETE SHALL BE A MINIMUM 25 MPa @ 28 DAYS.
- NO RENDERING PERMITTED IN STRUCTURAL COMPONENTS.
- 10. ALL PITS TO BE ADEQUATELY STREAMLINED AND BENCHED.
- 11. ALL DIMENSIONS ARE IN MILLIMETRES.



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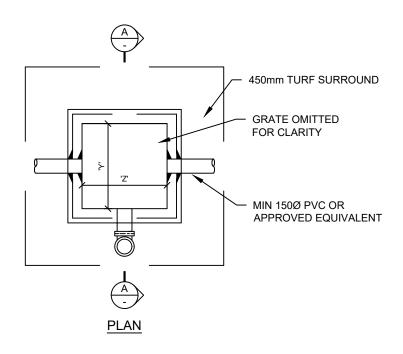
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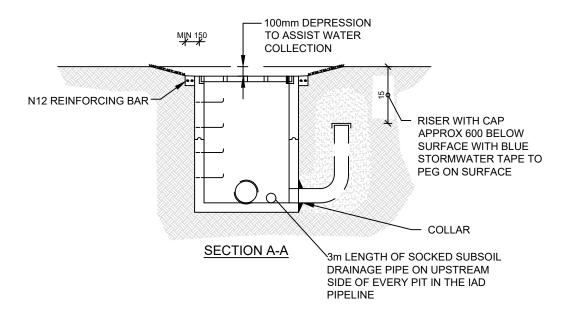
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Drawing Title MEDIAN KERB INLET PIT DISPOSAL TRENCH **A3** 1 OF 1 Sheet Drawing No. SCSD-408

Version 1





MINIMUM PIT DIMENSIONS

PIT DEPTH	< 450	450 - 900	900 - 1200	1200 - 1800	> 1800
Ύ'	450	600	900	900	900
`Z'	450	600	600	600	900

NOTES:

- INTER ALLOTMENT DRAINAGE PITS SHALL BE PROVIDED TO THE LOW CORNER OF EACH LOT UNLESS OTHERWISE PROVIDED.
- 2. PITS WILL ALSO BE PROVIDED AT CHANGES OF PIPE SIZE, CHANGES IN GRADE, CHANGED IN PIPE TYPE OR CLASS AND CHANGES IN DIRECTION OF 45° OR GREATER. SUCH PITS ARE TO BE A MINIMUM INTERNAL SIZE OF 600 x 600 APPROVED PRECAST OR CAST INSITU.
- 3. PITS SHALL BE COVERED BY AN APPROVED GRATE TO PROVIDE AN ADEQUATE SURFACE WATER INLET. ALL GRATES ARE TO BE PROVIDED WITH EITHER "J" BOLTS OR PINS TO PREVENT REMOVAL. PITS SURROUNDS WILL BE TURFED AND PEGGED OR NETTED TO A MINIMUM WIDTH OF 450mm.
- 4. PIT INLET GRATES SHALL BE DEPRESSED 100mm BELOW SURROUNDING GROUND LEVEL TO ASSIST SURFACE WATER COLLECTION.
- 5. PROVIDE STEP IRONS FOR PITS DEEPER THAN 1.2m. REFER TO EGSD-401. SUCH PITS ARE TO HAVE A MINIMUM INTERNAL SIZE OF 900 x 600mm.
- 6. CONNECTION FOR ROOF WATER FOR SINGLE RESIDENTIAL DWELLINGS SHALL BE PROVIDED VIA A MINIMUM 100mm DIA STUB INTO THE SIDE OF THE PIT.
- 7. PIPE CONNECTION TO PIT TO BE SEALED WITH MINIMUM 100mm MORTAR COLLAR FOR SEAL AND SUPPORT.
- 8. PIPE FOR INTERALLOTMENT DRAINAGE IS TO BE FIBRE REINFORCED CONCRETE, PRECAST CONCRETE OR SEWER GRADE SN4 PVC.

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Notes

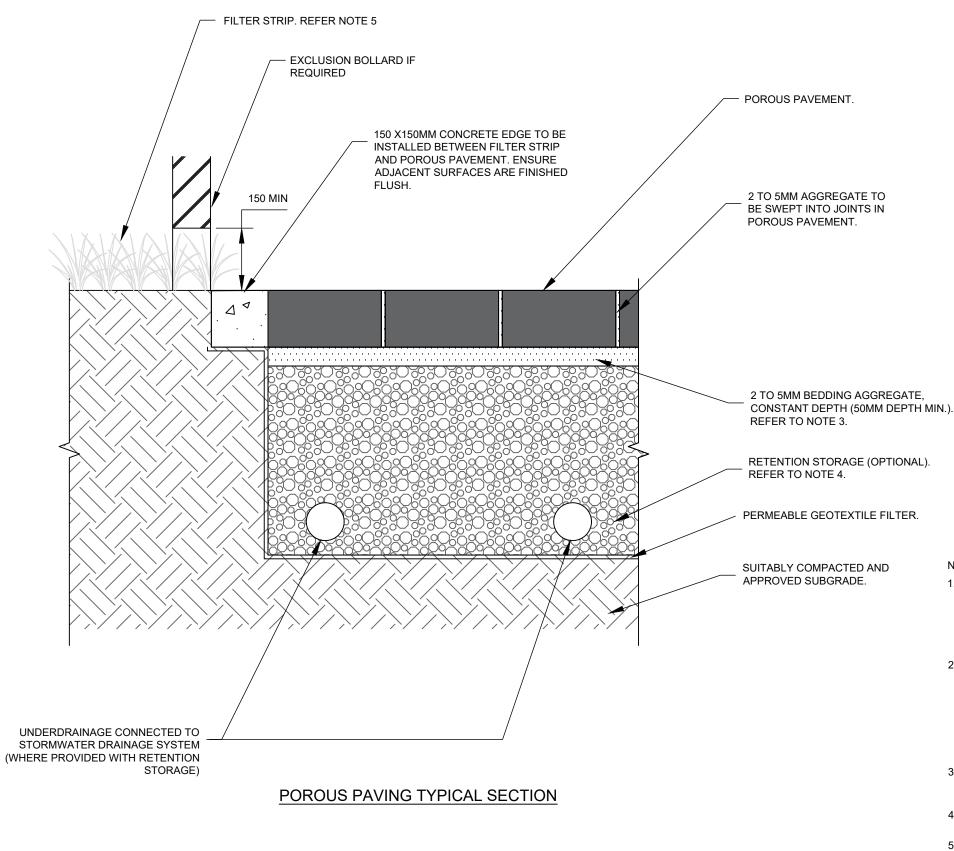
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INTER ALLOTMENT DRAIANGE PIT

Sheet 1 OF 1 A3

Drawing No. SCSD-409 Version 1



- 1. BEDDING AGGREGATE MATERIAL SHALL MEET MATERIAL AND GRADING COMPATIBILITY CRITERIA IN TECHNICAL SPECIFICATION FOR THE WORKS AND/ OR THE PAVEMENT MANUFACTURER'S TECHNICAL SPECIFICATIONS.
- 2. THE RETENTION STORAGE MEDIA SHALL COMPRISE COARSE, SOUND, CLEAN STONE OR ROCK OF GENERALLY UNIFORM PARTICLE SIZE (TYPICALLY 10 TO 63 MM SIZE) AND FREE FROM SILT/CLAY FINES OR OTHER DELETERIOUS MATTER, OR AS SPECIFIED IN THE PAVEMENT MANUFACTURE'S TECHNICAL SPECIFICATION.
- 3. FILTER STRIPS SHOULD BE TURF OR PLANTED IF PLANTED, VEHICLE EXCLUSION BOLLARDS MAY BE REQUIRED.
- 4. REFER TO MANUFACTURE'S SPECIFICATION FOR MAXIMUM TRAFFIC LOADING.

A3

5. FILTER STRIPS TO BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH LANDSCAPE DESIGN GUIDELINES.

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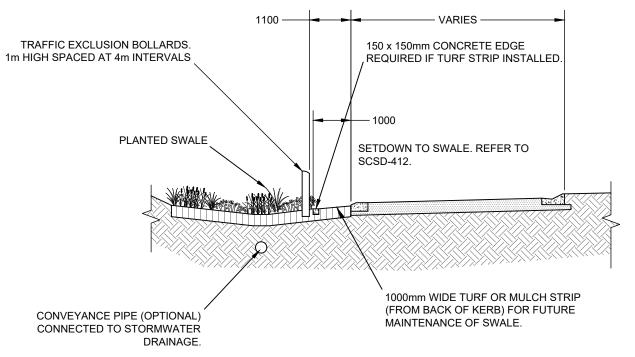
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POROUS PAVING - TYPICAL
SECTION

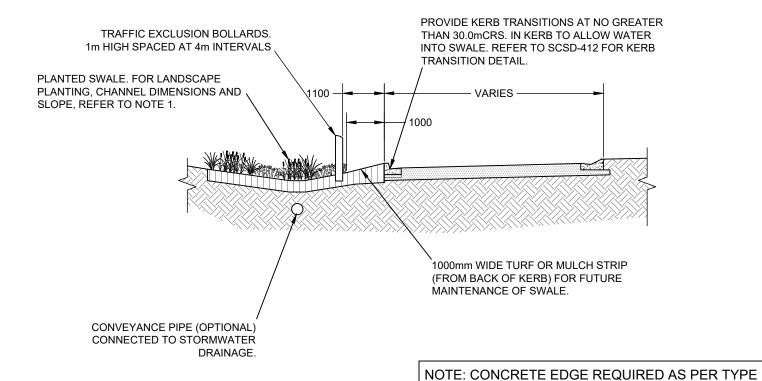
Sheet 1 OF 1

Drawing No. SCSD-410

Version 1



TYPE 1 SWALE LOCAL ACCESS ROADS



ALTERNATIVE TYPE 1 SWALE KERB AND CHANNEL LOCAL ACCESS ROADS

<u>NOTES</u>

1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES.



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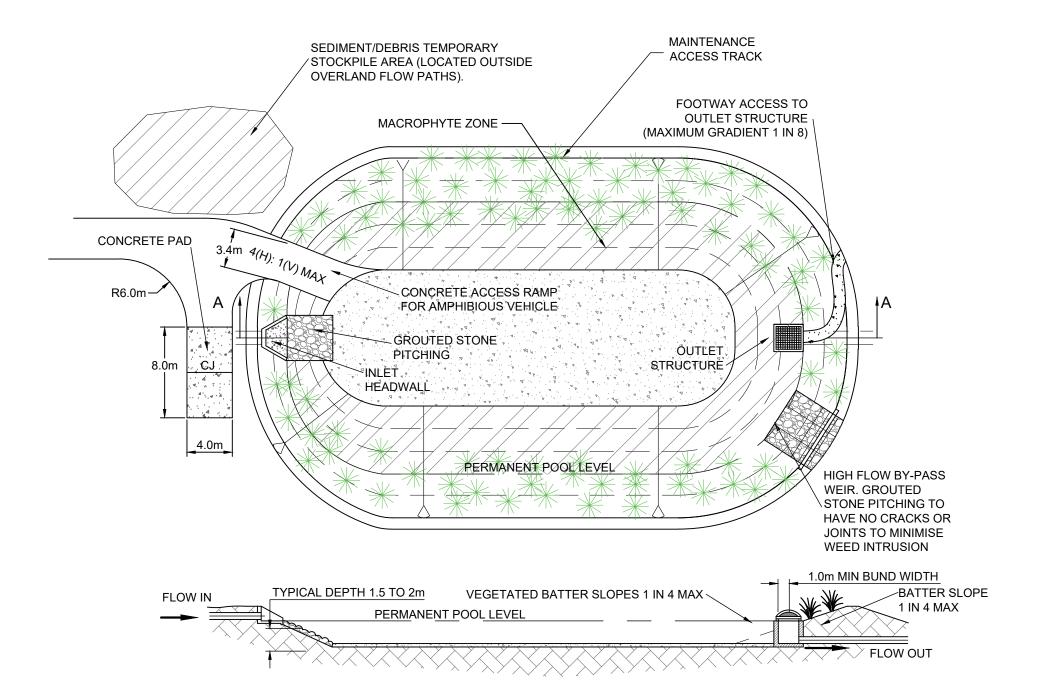
1 SWALE IF TURF STRIP INSTALLED.

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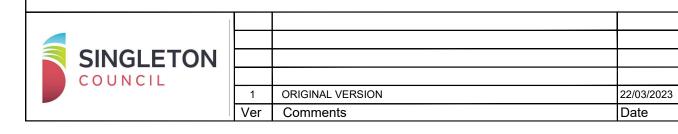
Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au **Drawing Title GRASSED SWALE - TYPE 1**

A3 1 OF 1 Sheet Drawing No. SCSD-411 Version 1

NOTES: 1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES. VARIES - REFER TO SC ROAD STANDARDS VARIES - REFER TO SC ROAD STANDARDS VARIES 1000 i 1000 PROVIDE 150 X 150MM CONCRETE EDGE TO TURF/PLANTED SWALE 100 100 1000mm WIDE TURF OR MULCH PLANTED SWALE. TRAFFIC EXCLUSION BOLLARDS. INTERFACE ONLY. NOT REQUIRED STRIP (FROM BACK OF KERB) FOR 1m HIGH SPACED AT 4m INTERVALS FOR TURF SWALES. FUTURE MAINTENANCE OF SWALE. TURF AS PROVIDE 1000MM WIDE MULCH SPECIFIED. STRIP OR 850MM WIDE TURF STRIP (FROM BACK OF KERB) FOR FUTURE MAINTENANCE OF SWALE. PROVIDE KERB TRANSITION EVERY 30.0M TO ALLOW WATER TO FLOW CONVEYANCE PIPE (OPTIONAL), 150 x 150mm CONCRETE FROM ROAD TO SWALE. EDGE REQUIRED IF TURF CONNECTED TO STORMWATER DRAINAGE. STRIP INSTALLED. FOR VEGETATION, CHANNEL DIMENSIONS, ETC. REFER TO KERB AND GUTTER NOTE 1. KERB TRANSITION DETAIL FOR TYPE 2 SWALE ALTERNATIVE TYPE 2 SWALE TRAFFIC EXCLUSION ADJACENT SURFACE BOLLARDS. TREATMENT AS SPECIFIED. 1m HIGH SPACED AT VARIES - REFER TO SC ROAD STANDARDS VARIES - REFER TO SC ROAD STANDARDS 4m INTERVALS 1000 **VARIES** 1000 60mm MIN. SETDOWN FROM EDGE RESTRAINT TO TURF/MULCH LEVEL 100 100 PROVIDE KERB TRANSITIONS AT 30.0m (100-150 SETDOWN TO FINISHED TRAFFIC EXCLUSION BOLLARDS. CRS. IN KERB TO ALLOW WATER INTO TOPSOIL LEVEL). 1m HIGH SPACED AT 4m INTERVALS SWALE. REFER TO KERB TRANSITION CONCRETE KERB AND GUTTER EDGE. BEYOND. 450 KERB. ADJACENT ROAD SURFACE. PLANTED CONVEYANCE PIPE (OPTIONAL), CONNECTED TO 1000mm WIDE TURF OR MULCH SWALE. STRIP (FROM BACK OF KERB) FOR STORMWATER DRAINAGE. FUTURE MAINTENANCE OF SWALE. FOR VEGETATION, CHANNEL DIMENSIONS, ETC. REFER TO NOTE: CONCRETE EDGE REQUIRED AS PER TYPE 2 NOTE 1. **SECTION A-A** SWALE IF TURF STRIP INSTALLED. ALTERNATIVE TYPE 2 SWALE Singleton Council **Drawing Title** Notes Civic Centre, PO Box 314 **GRASSED SWALE - TYPE 2** ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE Singleton, NSW, 2330 **SINGLETON** DRAWING IS NOT TO SCALE, WORK TO STATED DIMENSIONS. COUNCIL Phone: (02) 6578 7290 **A3** 1 OF 1 Sheet DO NOT RELY ON THESE STANDARD DRAWINGS AS THE EQUIVALENT OF, OR SUBSTITUTE FOR, PROJECT SPECIFIC DESIGN Fax: (02) 6572 4197 ORIGINAL VERSION 22/03/2023 AND ASSESSMENT BY A QUALIFIED PROFESSIONAL. www.singleton.nsw.gov.au Drawing No. SCSD-412 Version 1 Ver Date Comments



- 1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING DESIGN GUIDELINES.
- 2. SEDIMENTATION BASIN SHALL BE CONSTRUCTED WITH A HARD BASE TO ASSIST WITH MAINTENANCE. THE BASE MUST HAVE A BEARING CAPACITY TO SUPPORT MAINTENANCE MACHINERY WHEN ACCESS IS REQUIRED INTO THE BASIN.
- IN THE MACROPHYTE ZONE TO MINIMISE ALGAL BLOOMS AND EUTROPHICATION.
- 4. CONCRETE RAMP AND PAD TO BE 32MPA WITH SL82 REINFORCING STEEL AND AND 150mm MIN THICKNESS, SUB-BASE TO BE FOR COMPACTED 95% AND 100mm MIN THICKNESS.
- 5. MAINTENANCE ACCESS TRACK TO BE 2% STABILISED GRAVEL 3m WIDE AND 150mm MIN THICKNESS.
- 6. FOOTWAY ACCESS TO OUTLET STRUCTURE TO BE NO FINES CONCRETE, 1m WIDE AND 125mm MIN THICKNESS.
- 7. CONCRETE BYPASS WEIR AND INLET TO BE 25MPA WITH SL82 REINFORCING STEEL AND 150mm MIN THICKNESS.
- 8. ROCK FOR BY-PASS WEIR AND INLET STONE PITCHING TO BE 250-300mm HARD DURABLE ROCK



Notes

1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED.

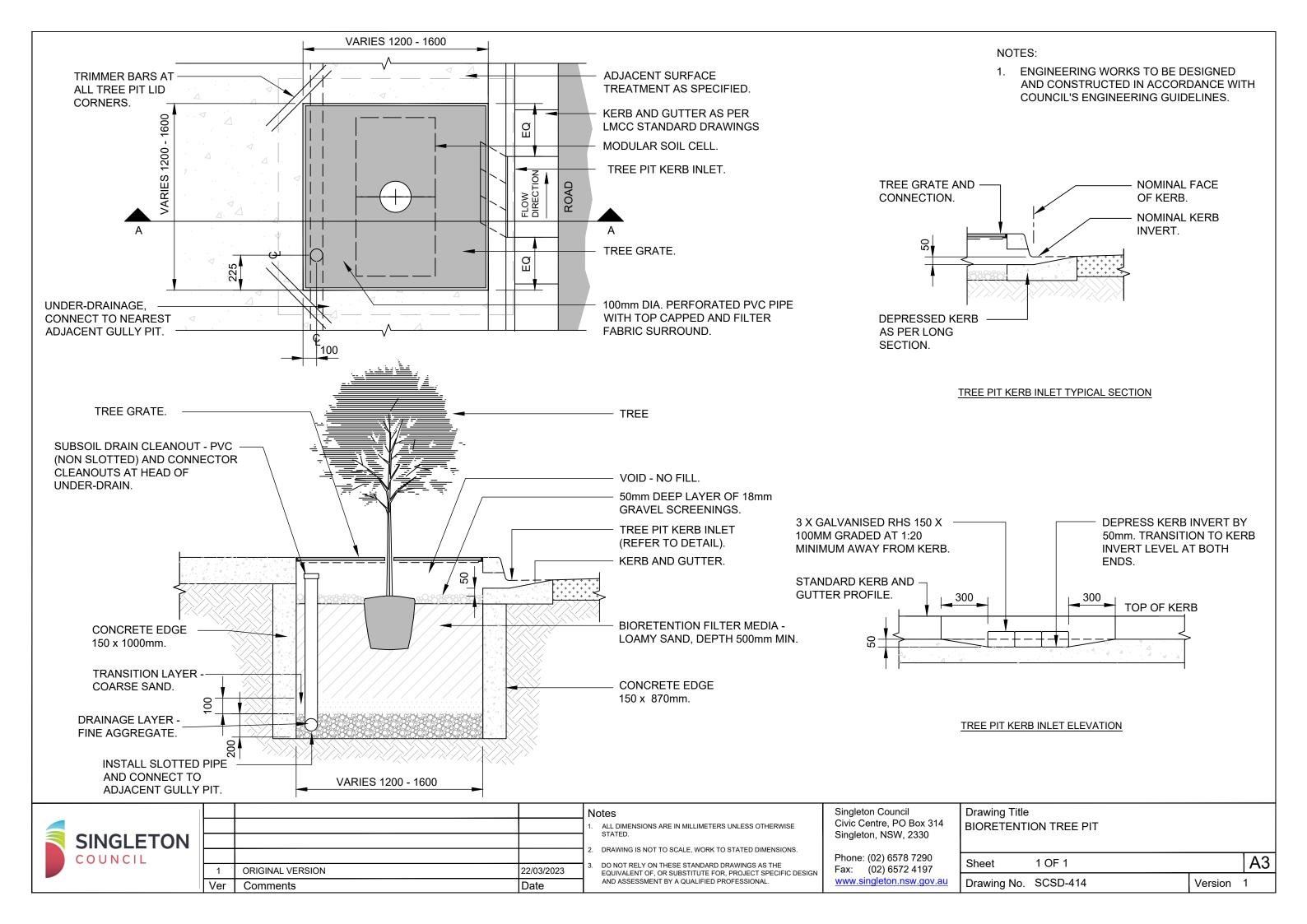
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Sheet 1 OF 1 A3

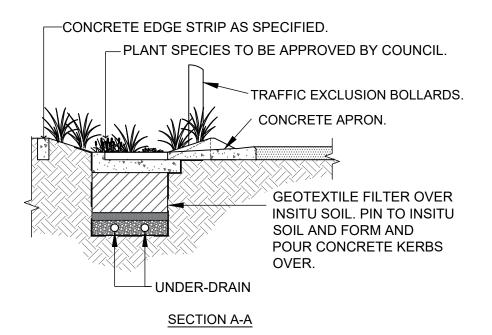
Drawing No. SCSD-413 Version 1

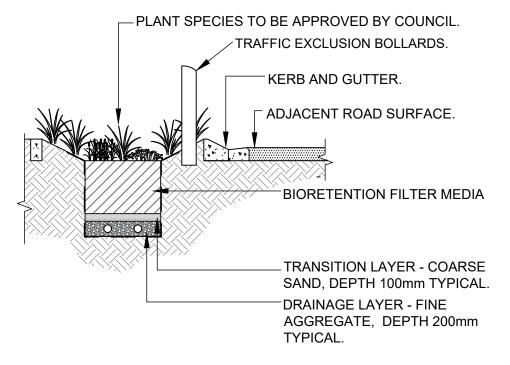


KERB AND GUTTER AS SPECIFIED. ADJACENT ROAD SURFACE. UNDER DRAINAGE CLEANOUT POINT. PLANTS AS SPECIFIED BY LANDSCAPE ARCHITECT AND APPROVED BY COUNCIL. GULLY PIT. **UNDER DRAINAGE** CONNECTED TO GULLY PIT. DIRECTION TRAFFIC EXCLUSION BOLLARDS. 1m HIGH, SPACED AT 2m **INTERVALS** В В FLOW GUTTER CONCRETE APRON. $\#\Box$ **COARSE SEDIMENT** FOREBAY.

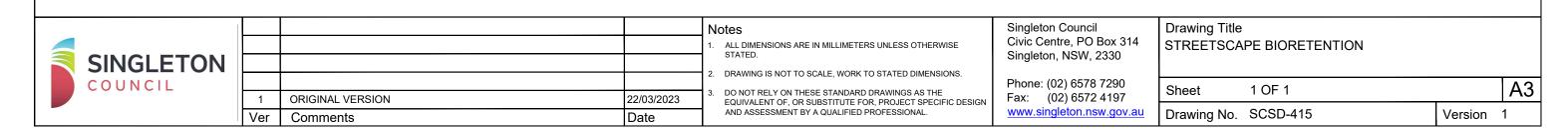
NOTES

- 1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES.
- 2. BIORETENTION FILTER MEDIA: SPECIFICATION AND HYDRAULIC CONDUCTIVITY SHALL BE IN ACCORDANCE WITH THE FACILITY FOR ADVANCING WATER BIOFILTRATION (FAWB) (2009) "ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEMS".



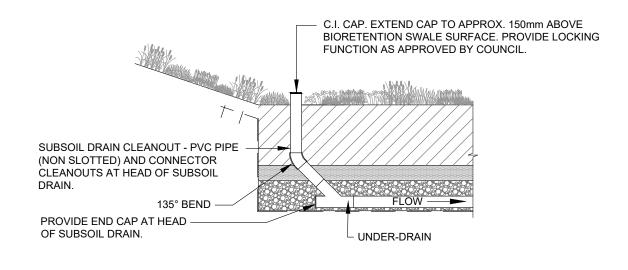


SECTION B-B



GEOTEXTILE LINER FIXED TO PERIMETER OF PIT TO AVOID RUNNELLING OF WATER BETWEEN PIT AND SOIL INTERFACE. 300mm WIDE, 100mm COVER. RAISED PIT GRATE GEOTEXTILE LINER FIXED TO PERIMETER OF PIT TO AVOID RUNNELLING OF WATER BETWEEN PIT AND SOIL INTERFACE. 300mm WIDE, 100mm COVER. GEOTEXTILE LINER FIXED TO PERIMETER OF PIT TO AVOID RUNNELLING OF WATER BETWEEN PIT AND SOIL INTERFACE. 300mm WIDE, 100mm COVER. WATER TIGHT SEAL AT PIT INTERFACE. UNDER-DRAIN TO GRADE AT 0.5% MIN TOWARDS OVERFLOW PIT.

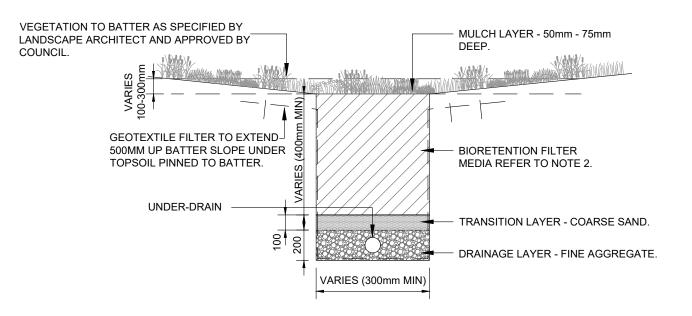
BIORETENTION OVERFLOW PIT - TYPICAL SECTION



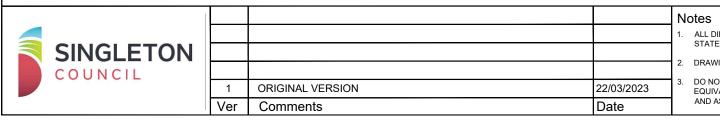
BIORETENTION UNDER-DRAIN CLEANOUT - TYPICAL SECTION

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- 1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES.
- 2. BIORETENTION FILTER MEDIA: SPECIFICATION AND HYDRAULIC CONDUCTIVITY SHALL BE IN ACCORDANCE WITH THE FACILITY FOR ADVANCING WATER BIOFILTRATION (FAWB) (2009) "ADOPTION GUIDELINES FOR STORMWATER BIOFILTRATION SYSTEMS".



BIORETENTION SWALE - TYPICAL SECTION



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BIORETENTION SWALE

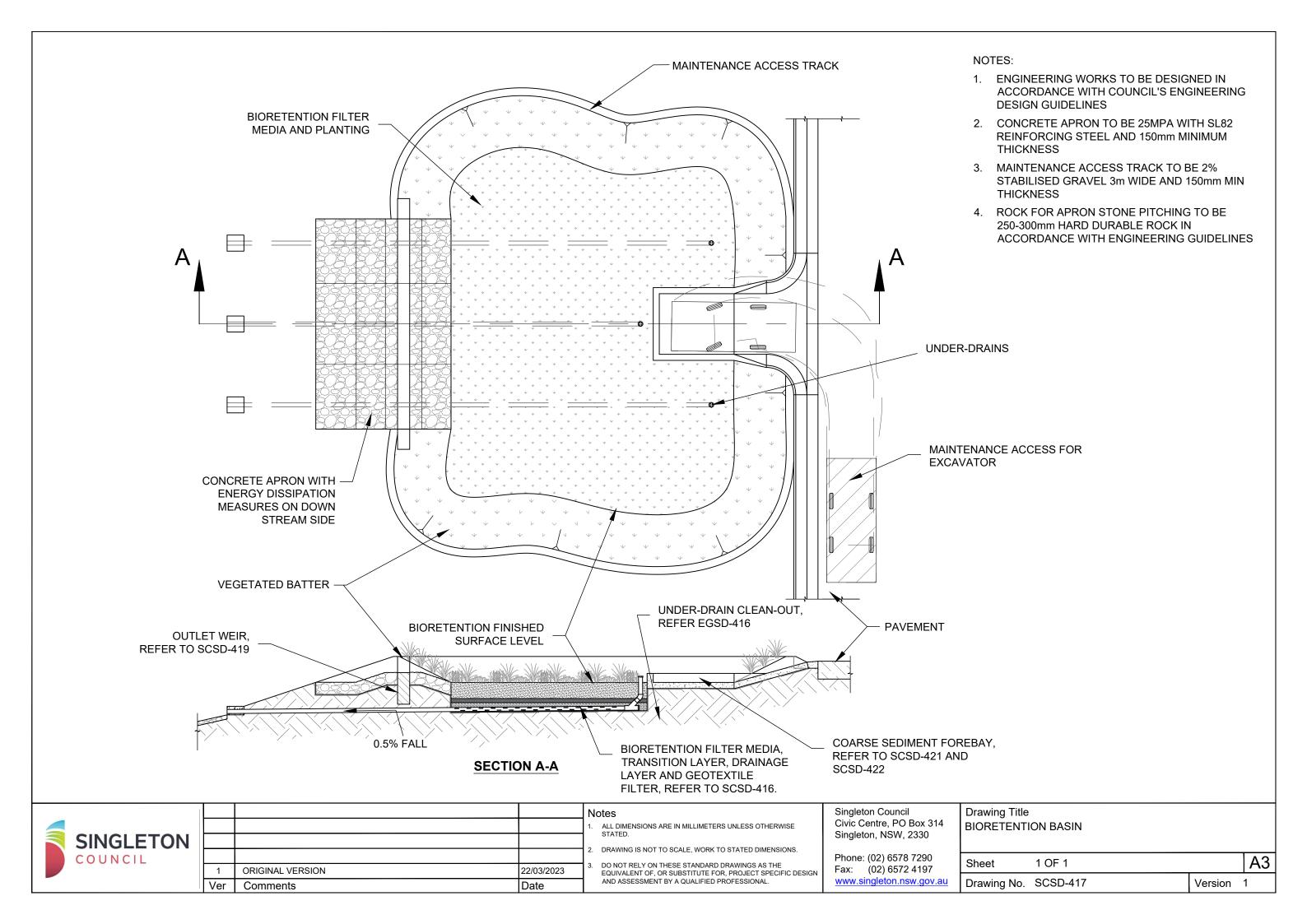
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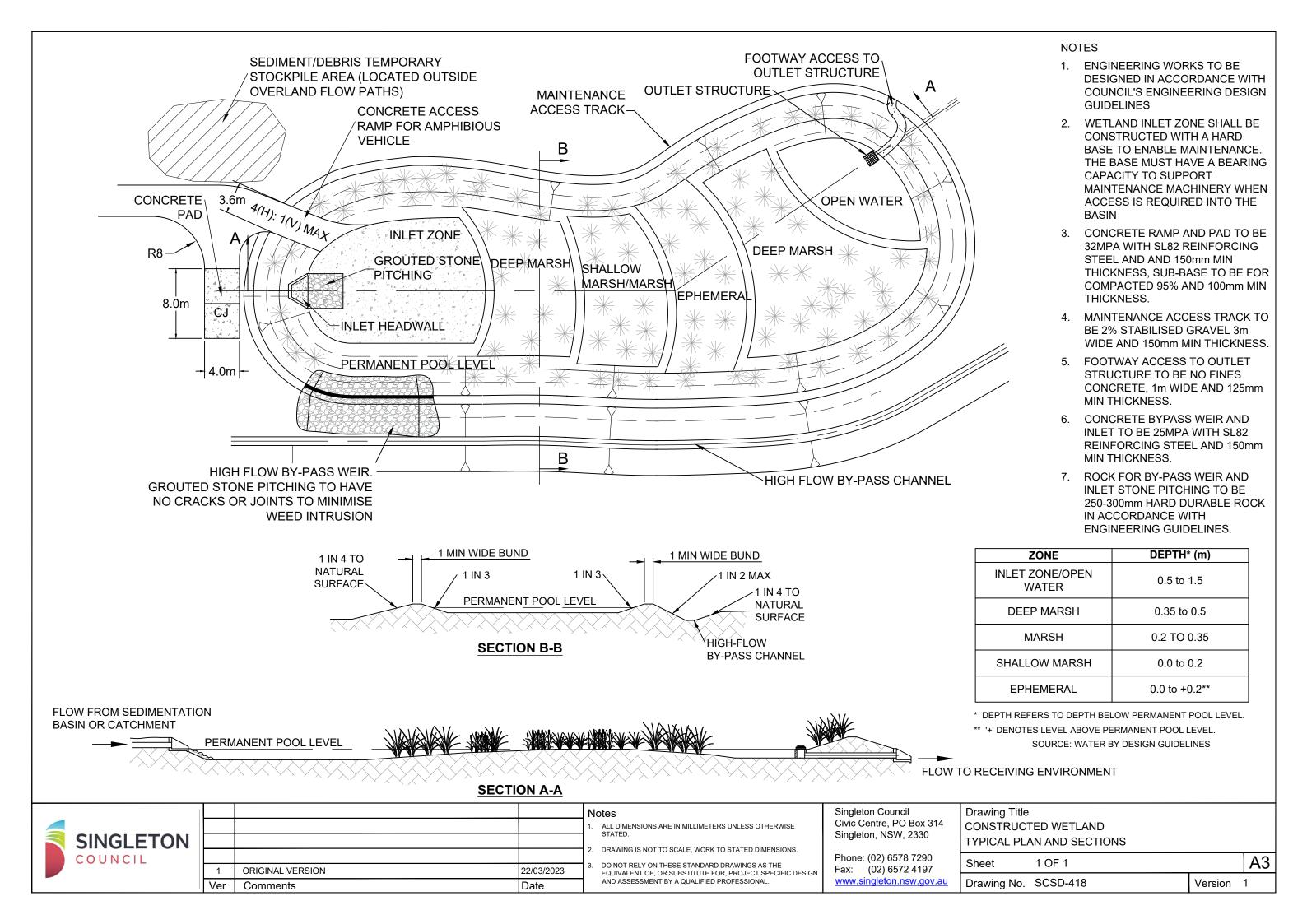
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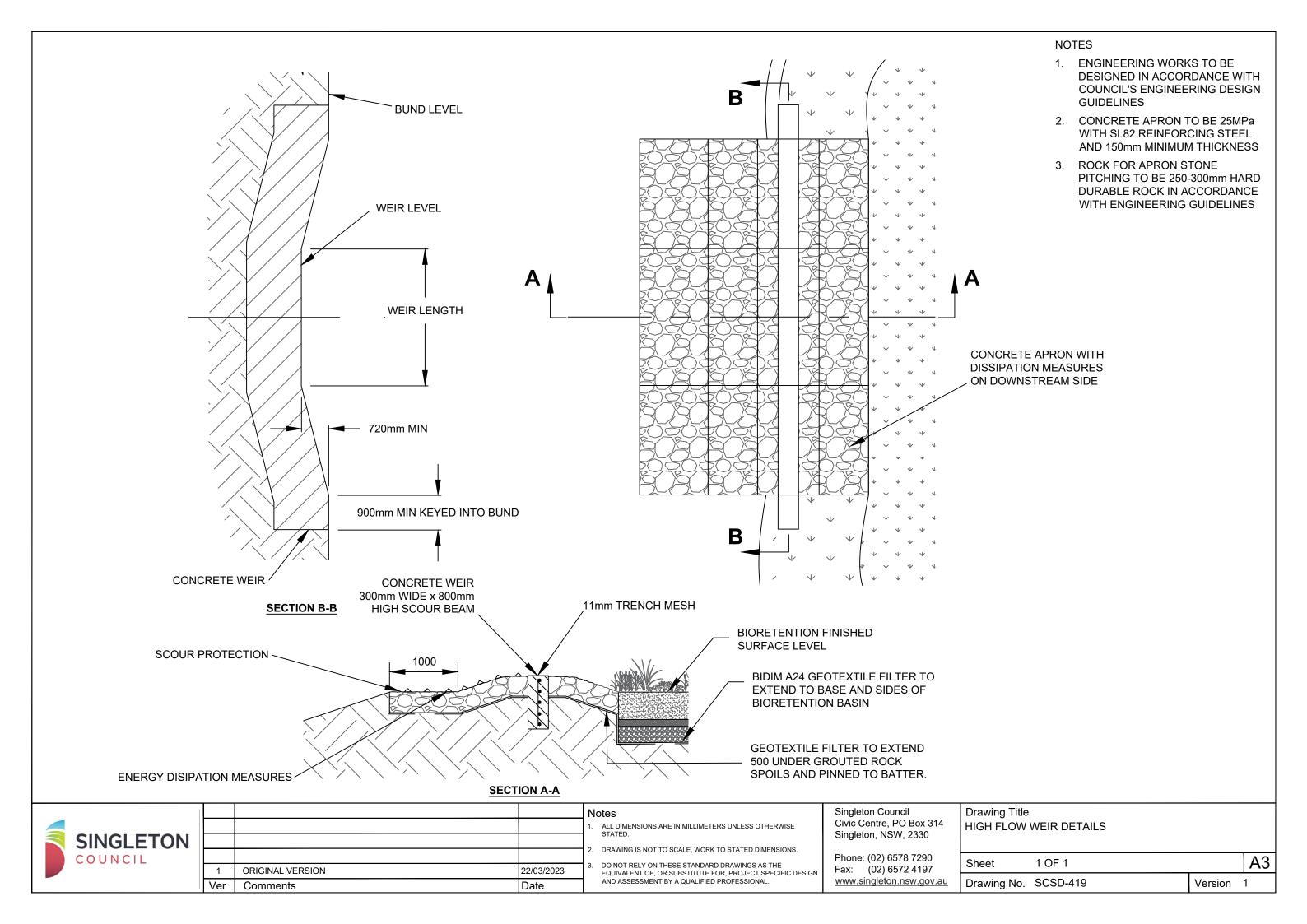
Drawing

Sheet 1 OF 1 A3

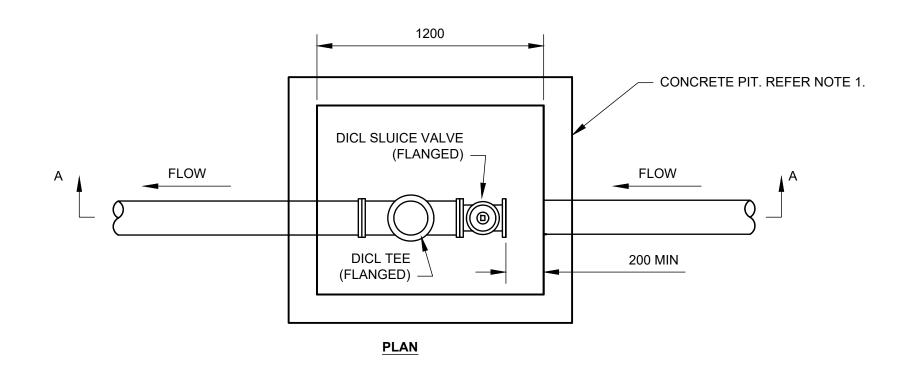
Drawing No. SCSD-416 Version 1

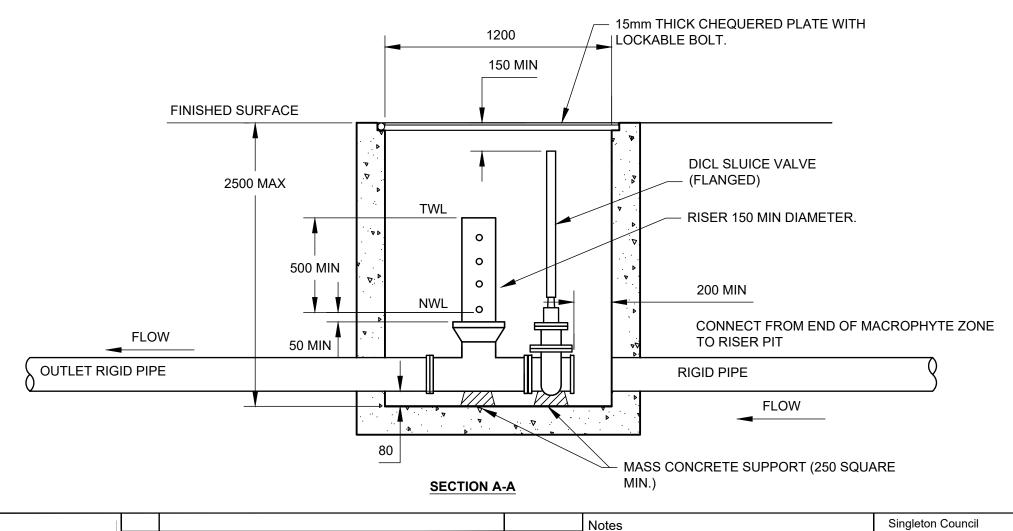






1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES.





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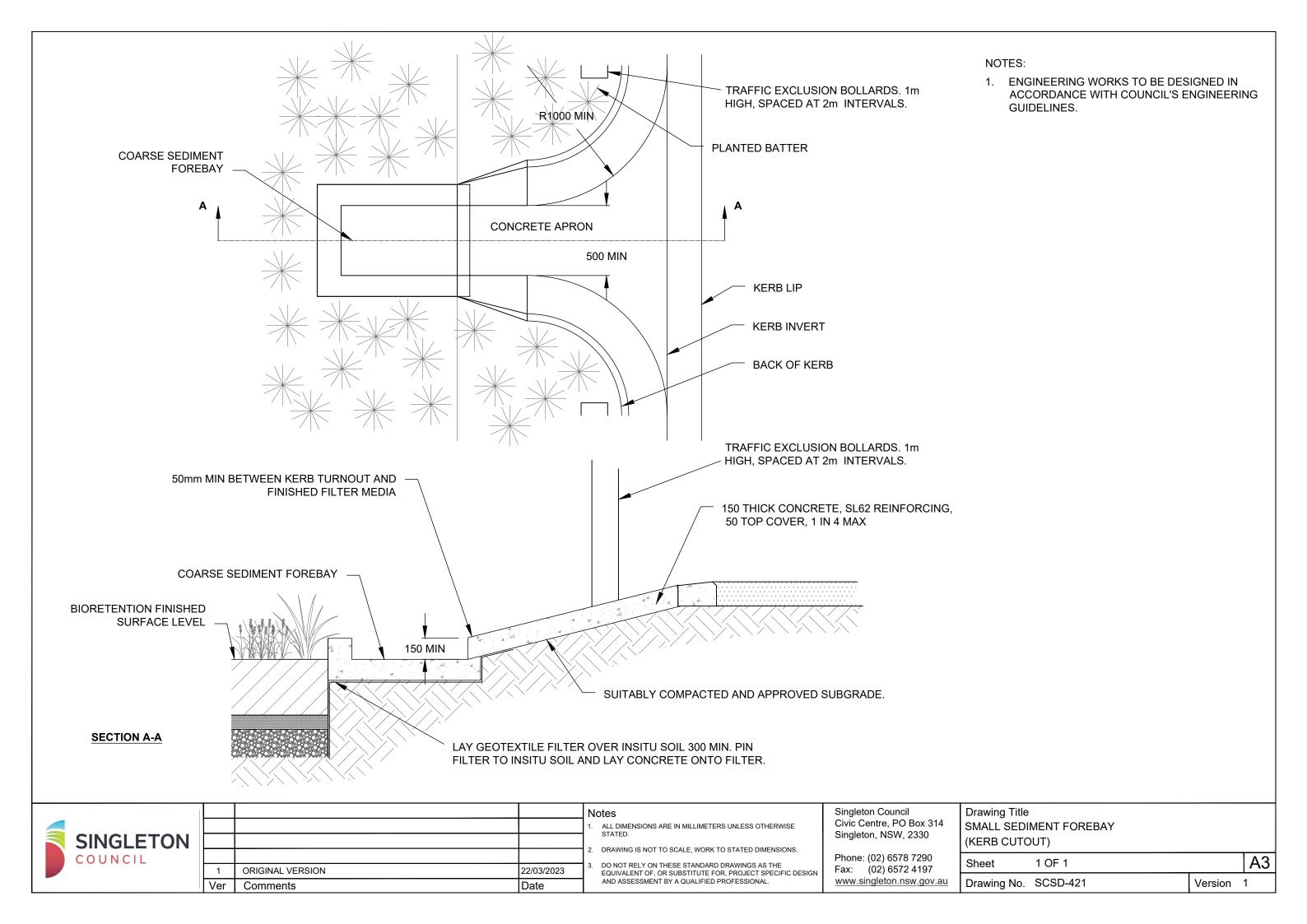
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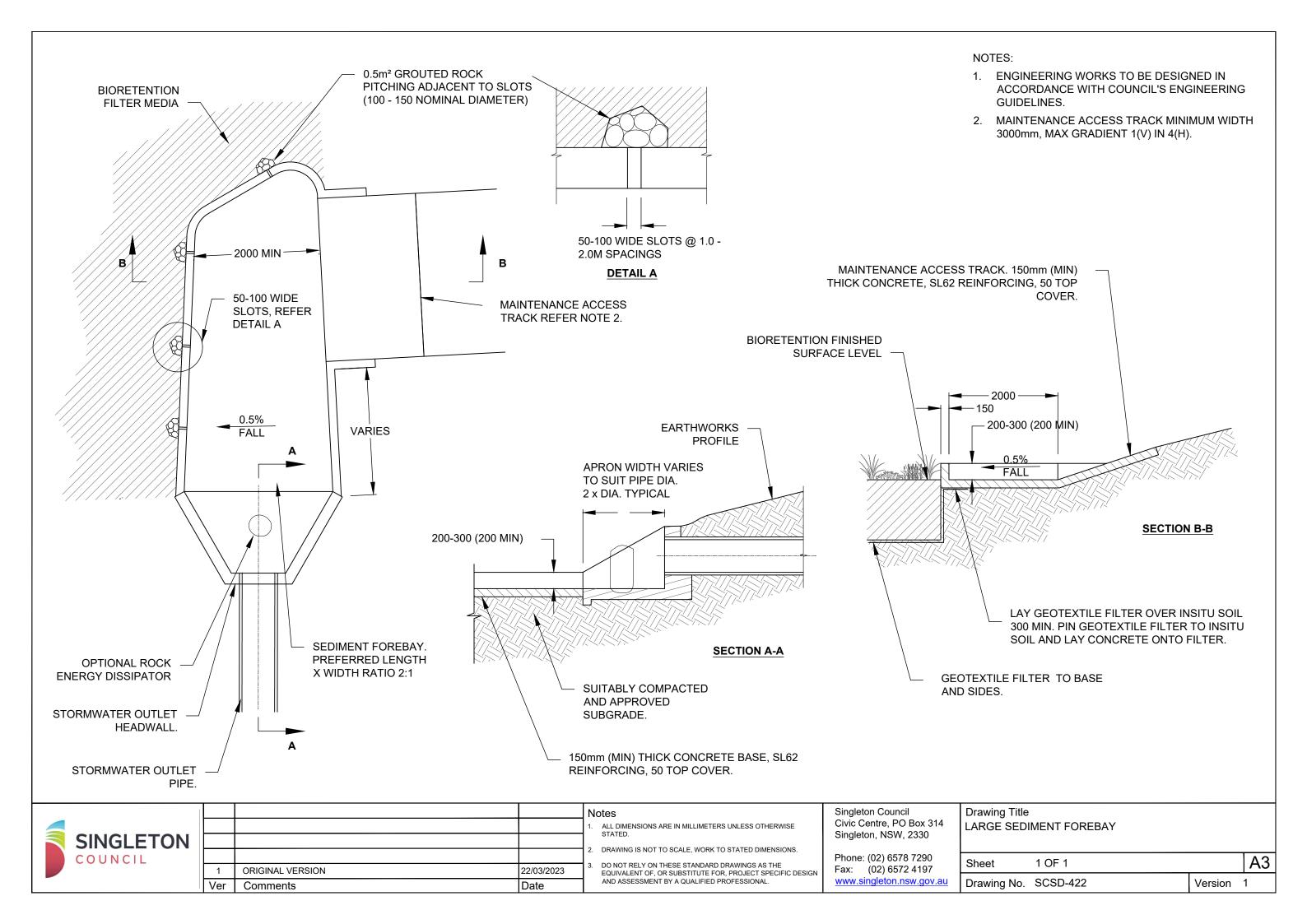
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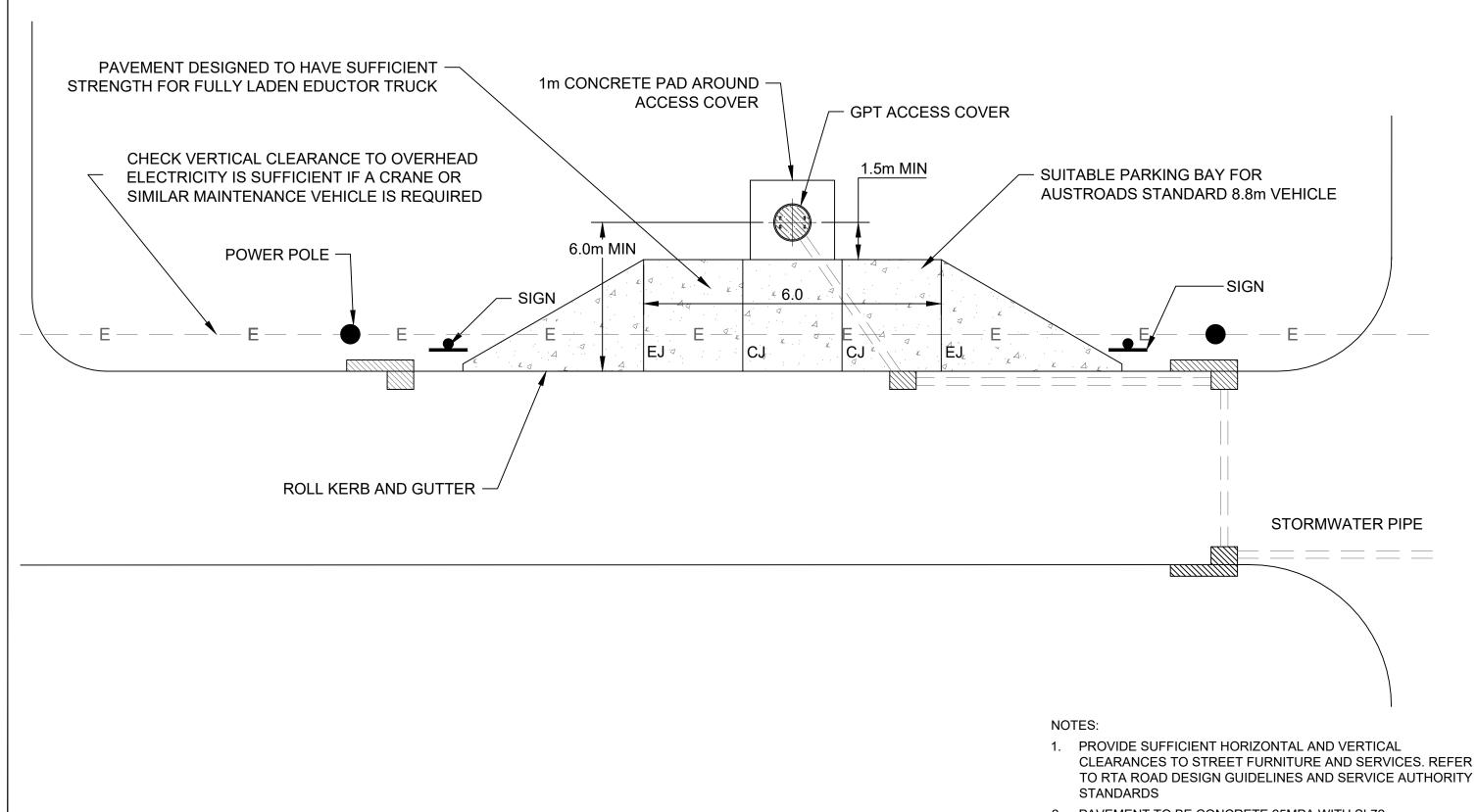
Drawing Title
LOW FLOW RISER OUTLET

Sheet 1 OF 1
Drawing No. SCSD-420

Version 1







- 2. PAVEMENT TO BE CONCRETE 25MPA WITH SL72 REINFORCING STEEL AND 150mm MIN THICKNESS, SUB-BASE TO BE FCR COMPACTED 95% AND 100mm MIN THICKNESS
- 3. PROVIDE CONCRETE ACCESS TO ALL ACCESS COVERS
- 4. SIGNS R5-40 (NO PARKING) 7AM TO 5PM MON-FRI

				No
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				2.
	1	ORIGINAL VERSION	22/03/2023	3.
ì	Ver	Comments	Date	

Votes

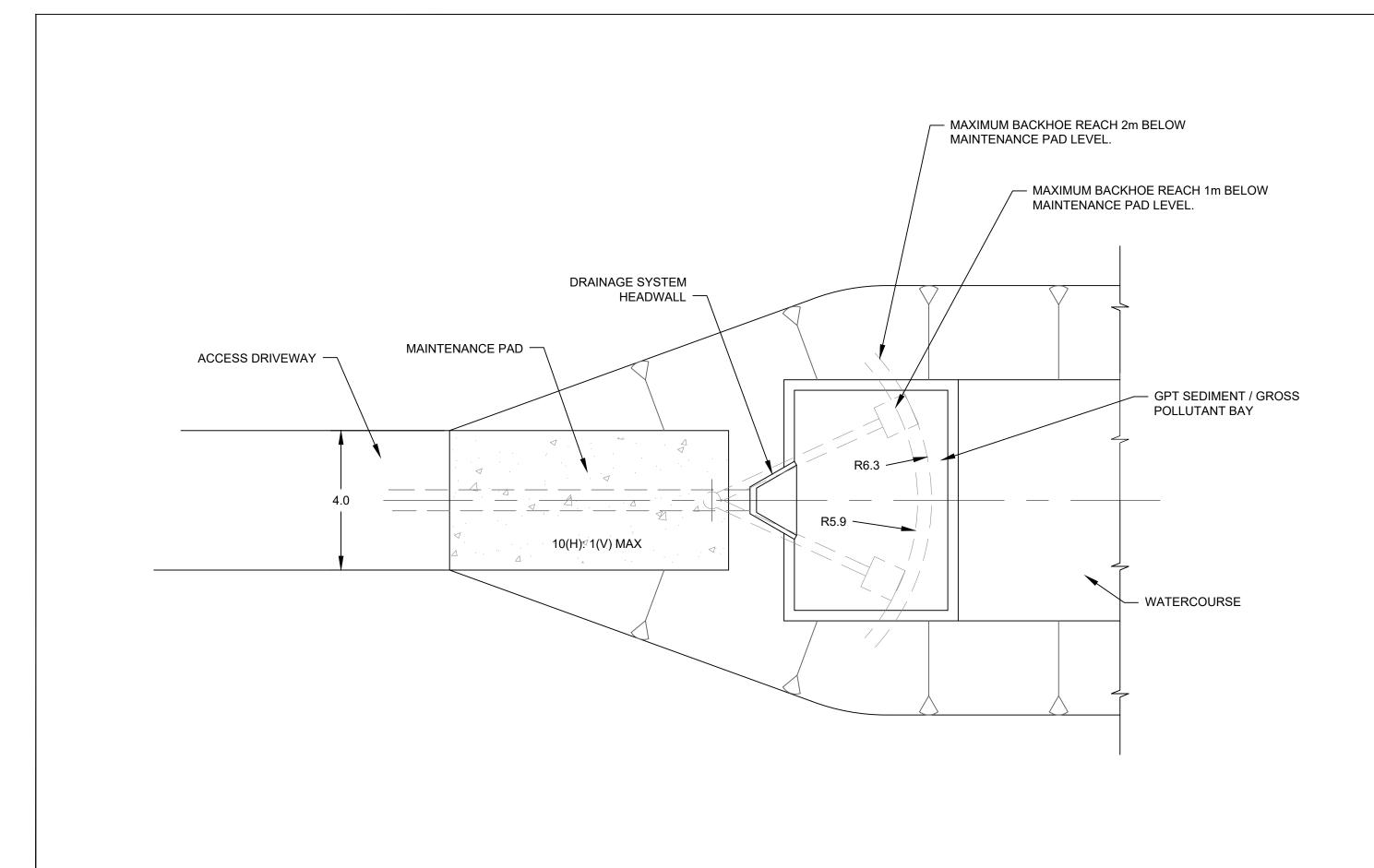
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Drawing Title MAINTENANCE ACCESS UNDERGROUND GPT

A3 Sheet 1 OF 1 Drawing No. SCSD-423 Version 1



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				_ 1	
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		1	ORIGINAL VERSION	22/03/2023	٦;
		Ver	Comments	Date	1

Notes

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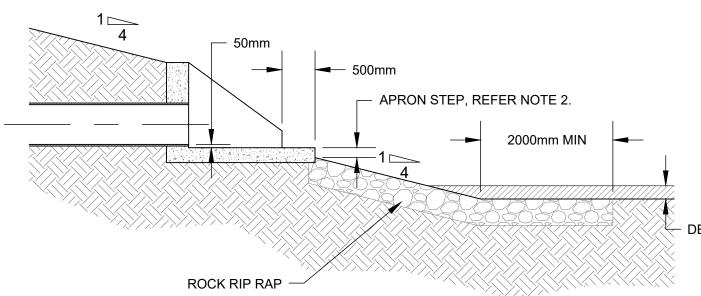
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MAINTENANCE ACCESS - GPT ABOVE GROUND

Sheet 1 OF 1 A3

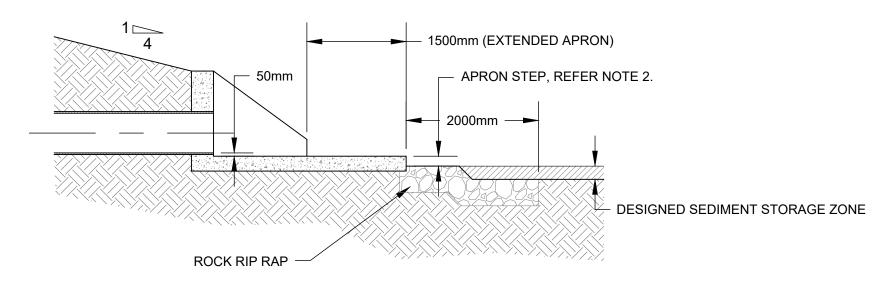
Drawing No. SCSD-424 Version 1



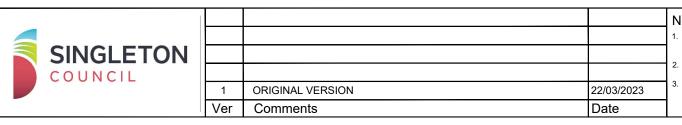
- 1. ENGINEERING WORKS TO BE DESIGNED IN ACCORDANCE WITH COUNCIL'S ENGINEERING GUIDELINES.
- 2. APRON STEP TO BE 100mm ON EACH SIDE OF THE APRON AND 150mm AT THE CENTRE OF THE APRON TO FORM A 'V' SHAPED ROCK RIP RAP.

DESIGNED SEDIMENT STORAGE ZONE

WET SEDIMENT BASIN INLET



DRY SEDIMENT BASIN INLET



Notes

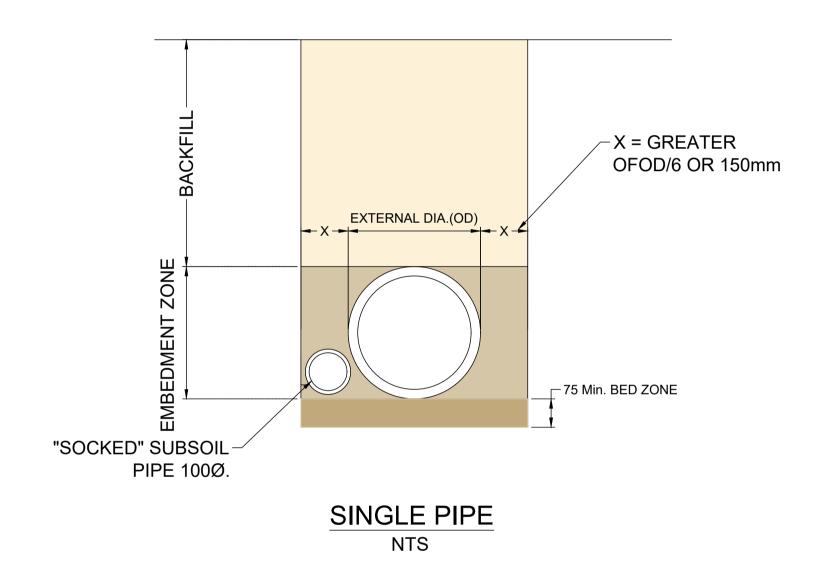
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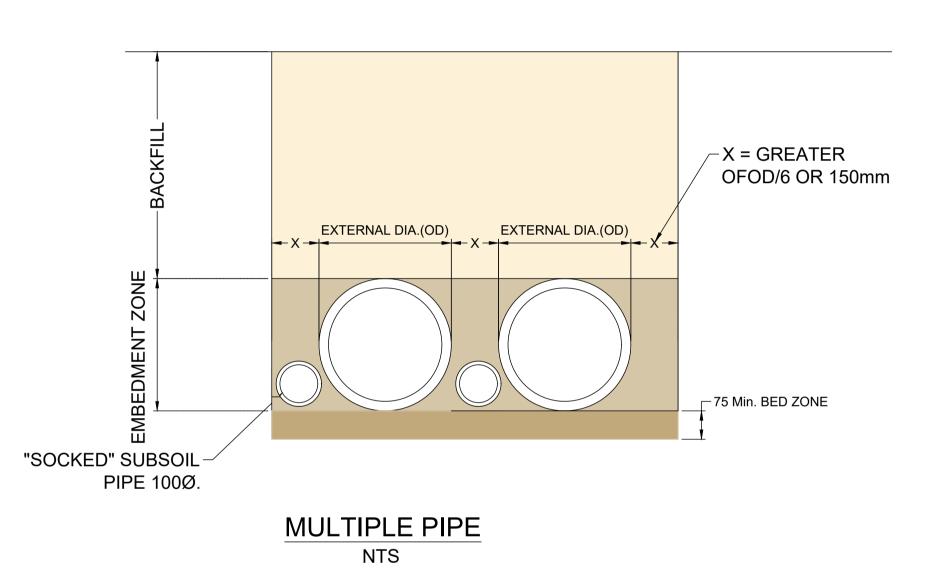
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Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au Drawing Title
SEDIMENT BASIN INLET DETAIL
DRY AND WET BASINS

Sheet 1 OF 1 A3

Drawing No. SCSD-425 Version 1

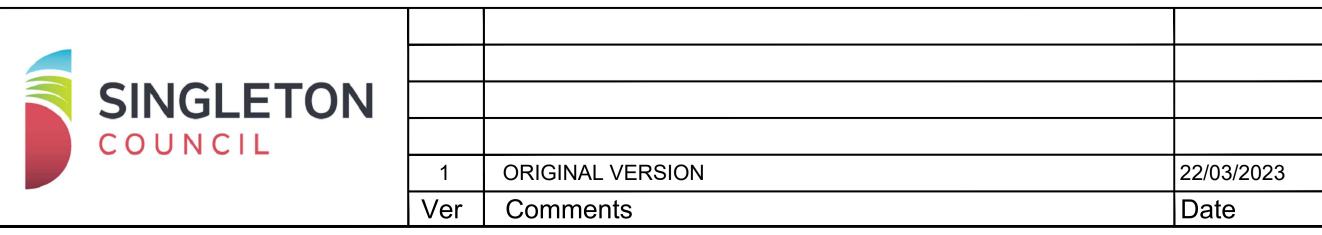




 BED ZONE MATERIAL 5mm OR 10mm SCREENINGS OR ALTERNATIVELY WASHED SCREENED BEDDING SAND TO BE GRADING SPECIFIED BELOW TO BED ZONE SIEVE SIZE (mm) PASSING (% BY WEIGHT)

01=1=01==(11111)	
9.5	100
4.75	95-100
2.36	75-90
1.18	15-25
0.60	10-20
0.30	5-10
0.15	0-5

- 2. EMBEDMENT ZONE MATERIAL: 5mm OR 10mm SCREENINGS
- 3. COMPACTED BACKFILL UNDER ROADS: GRANULAR FILL COMPRISING CRUSHED ROCK (40mm MAXIMUM SIZE, NON PLASTIC OPEN GRADED MATERIAL) OR CRUSHER RUN RECYCLED CONCRETE. WHERE APPROVED UNDER SPECIAL CIRCUMSTANCES, STABILISED SAND (1 PART CEMENT TO 12 PARTS SAND BY VOLUME) OR CONTROLLED LOW STRENGTH MATERIAL OR LEAN MIX CONCRETE OR CLASS 3 MATERIAL MAY BE PERMITTED
- 4. COMPACTED BACKFILL UNDER FOOTPATHS AND BIKEWAYS: EXCAVATED MATERIALS PROVIDED ADEQUATE COMPACTION CAN BE OBTAINED. ALTERNATIVELY USE GRANULAR FILL OR SAND
- 5. INCREASE EXCAVATION LOCALLY AT SPIGOT AND SOCKET JOINTS (RIGID PIPES) TO ENSURE MINIMUM BOTTOM COVER AS SHOWN.
- 6. SUBSOIL DRAINAGE TO BE 100mm DIA SOCKED PERFORATED POLYETHYLENE PIPES AND CLASS 1000.
- 7. ALL DIMENSIONS ARE IN MILLIMETRES



_ Notes

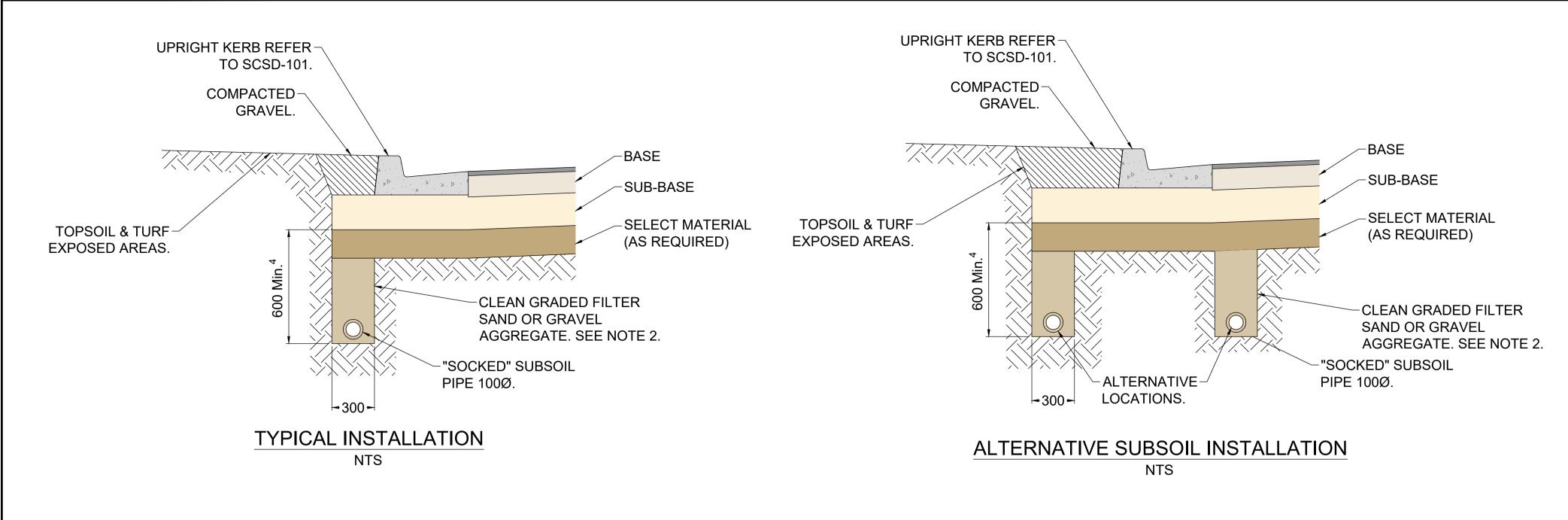
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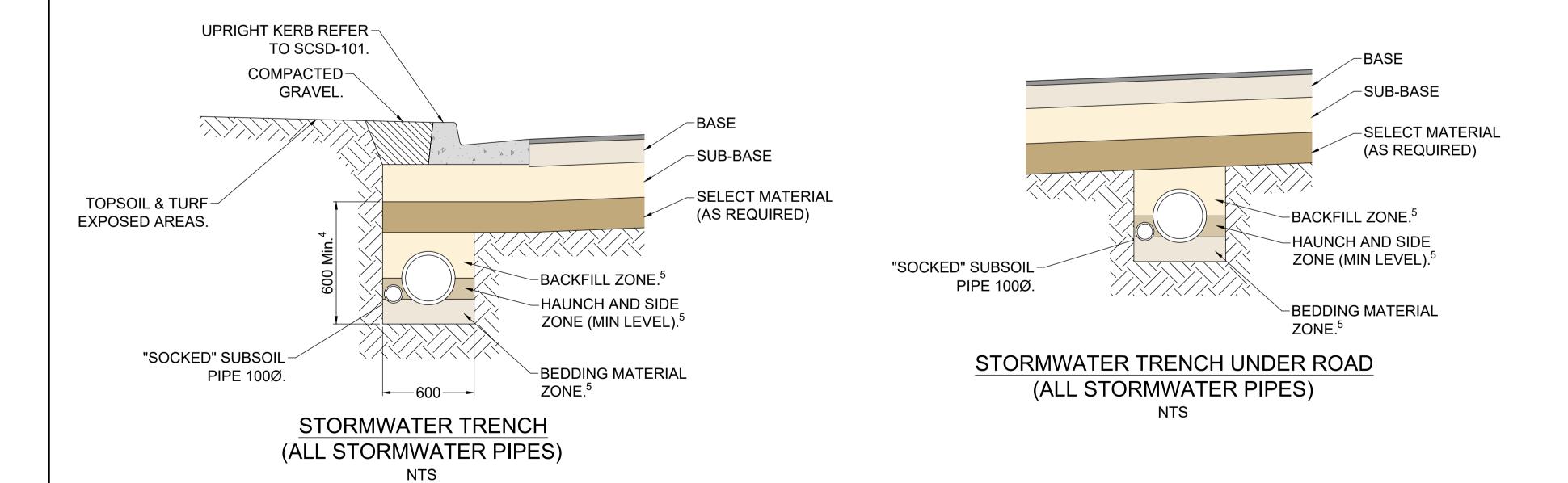
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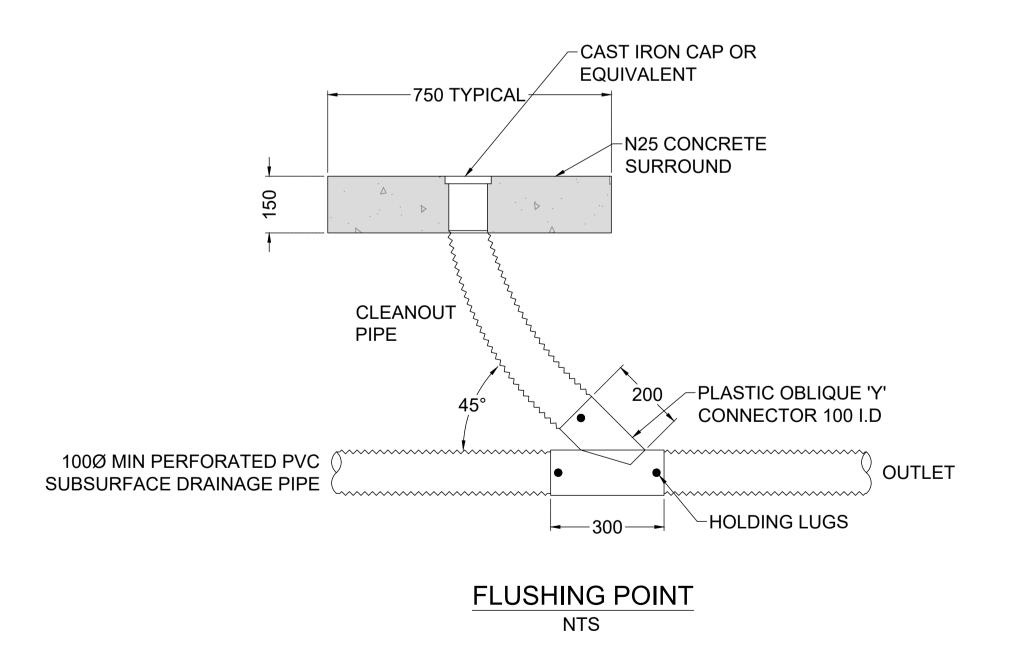
Drawing Title	
BEDDING METHODS FOR DRAINAGE PIPE	S

Sheet	1 OF 2		A ₁
Drawing No.	SCSD-426	Version	1



- 1. TYPE, LOCATION AND EXTENT OF ADDITIONAL SUBSOIL DRAINAGE SHALL BE IN ACCORDANCE WITH A GEOTECHNICAL CONSULTANT'S ASSESSMENT.
- 2. A NOMINAL SIZE AGGREGATE (10mm MAXIMUM) MAY BE SUBSTITUTED FOR THE FILTER SAND
- 3. FLUSH POINTS SHALL BE PROVIDED AT UPSTREAM DEAD
- ENDS & CRESTS & AT MAXIMUM OF 60m CTRS. 4. DEPTH MAY BE VARIED IN A ROCK SUBGRADE.
- SEE THE CONSTRUCTION SECTION OF THE MANUAL OF ENGINEERING STANDARDS FOR TRENCH MATERIAL SPECIFICATION. EACH ZONE MAY BE ONE HOMOGENEOUS APPROVED MATERIAL.
- 6. SUBSOIL DRAINAGE FILTER DESIGN SHALL BE BASED ON THE DESIGN METHOD IN A.R.R.B. (AUSTRALIAN ROAD RESEARCH BOARD) PUBLICATION TITLED SUBSURFACE DRAINAGE OF ROAD STRUCTURES - REPORT No. 35.





UPRIGHT KERB REFER-

GRAVEL.

COMPACTED-

TOPSOIL &

EXPOSED

AREAS.

TURF

WATER MAIN.-

TO SCSD-101.

600

SHARED TRENCH

(WITH WATER MAIN)

NTS

BASE

SAND OR GRAVEL

-"SOCKED" SUBSOIL

PIPE 100Ø.

CLEAN GRADED FILTER

AGGREGATE. SEE NOTE 2.

SUB-BASE

SELECT MATERIAL

(AS REQUIRED)



ORIGINAL VERSION 22/03/2023 Ver Date Comments

Notes

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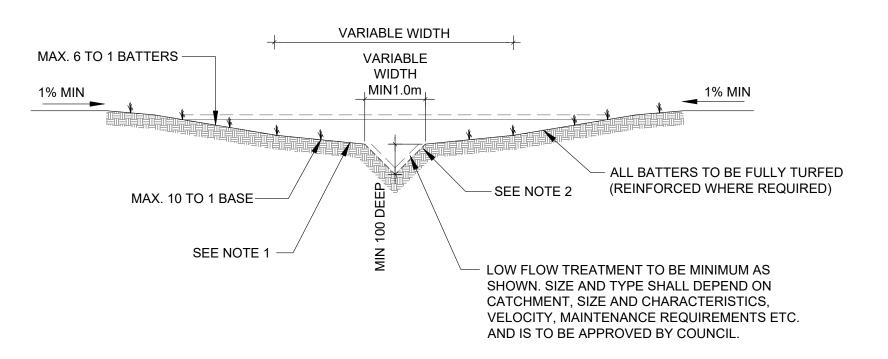
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Drawing Title SUBSOIL DRAINAGE & SERVICE TRENCH

A1 Sheet 2 OF 2 Drawing No. SCSD-426 Version 1

- 1. ADEQUATE SCOUR PROTECTION/VEGETATION STABILISING TREATMENT ADJACENT TO CONCRETE LOW FLOW.
- 2. SUBSOIL DRAINAGE FOR CHANNEL BASE AND ADJACENT TO DROP STRUCTURES MAY BE REQUIRED.
- 3. TO BE USED AS A GUIDE ONLY FOR THE PREPARATION OF DETAIL DESIGNS.
- 4. GENERALLY LOW FLOW PIPELINES WILL NOT BE PERMITTED.



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COUNCIL				2.
	1	ORIGINAL VERSION	22/03/2023	3.
	Ver	Comments	Date	

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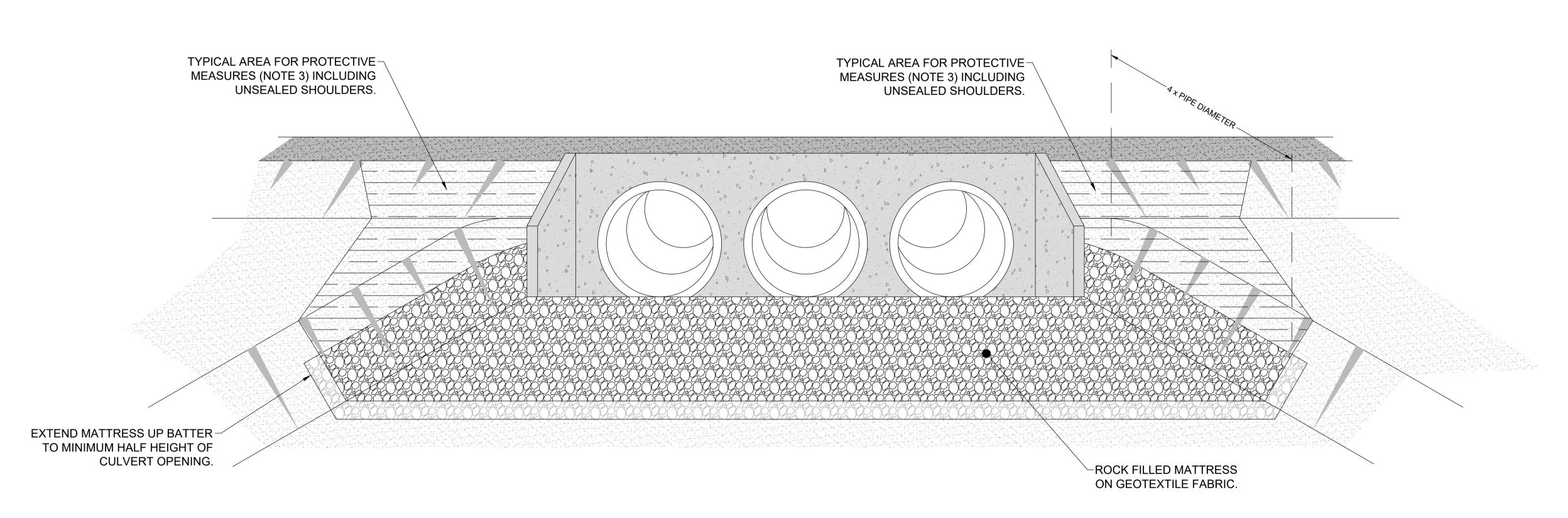
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Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au TYPICAL OPEN CHANNEL

A3 Sheet 1 OF 1 Drawing No. SCSD-427 Version 1



HEADWALL SCOUR PROTECTION

TYPICAL TREATMENT

NTS

NOTES:

- 1. SAFETY FENCING SHALL BE PROVIDED ABOVE HEADWALL SUBJECT TO PROXIMITY OF PEDESTRIANS.
- 2. ENERGY DISSIPATERS SHALL BE INCLUDED IN THE DESIGN AS REQUIRED.
- 3. WHERE THERE IS A POSSIBILITY OF OVERFLOW OF THE ROAD, SCOUR PROTECTION MEASURES ARE TO BE IMPLEMENTED ON SHOULDERS AND BATTERS.

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	1	ORIGINAL VERSION	12/09/2023	3.
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Notes

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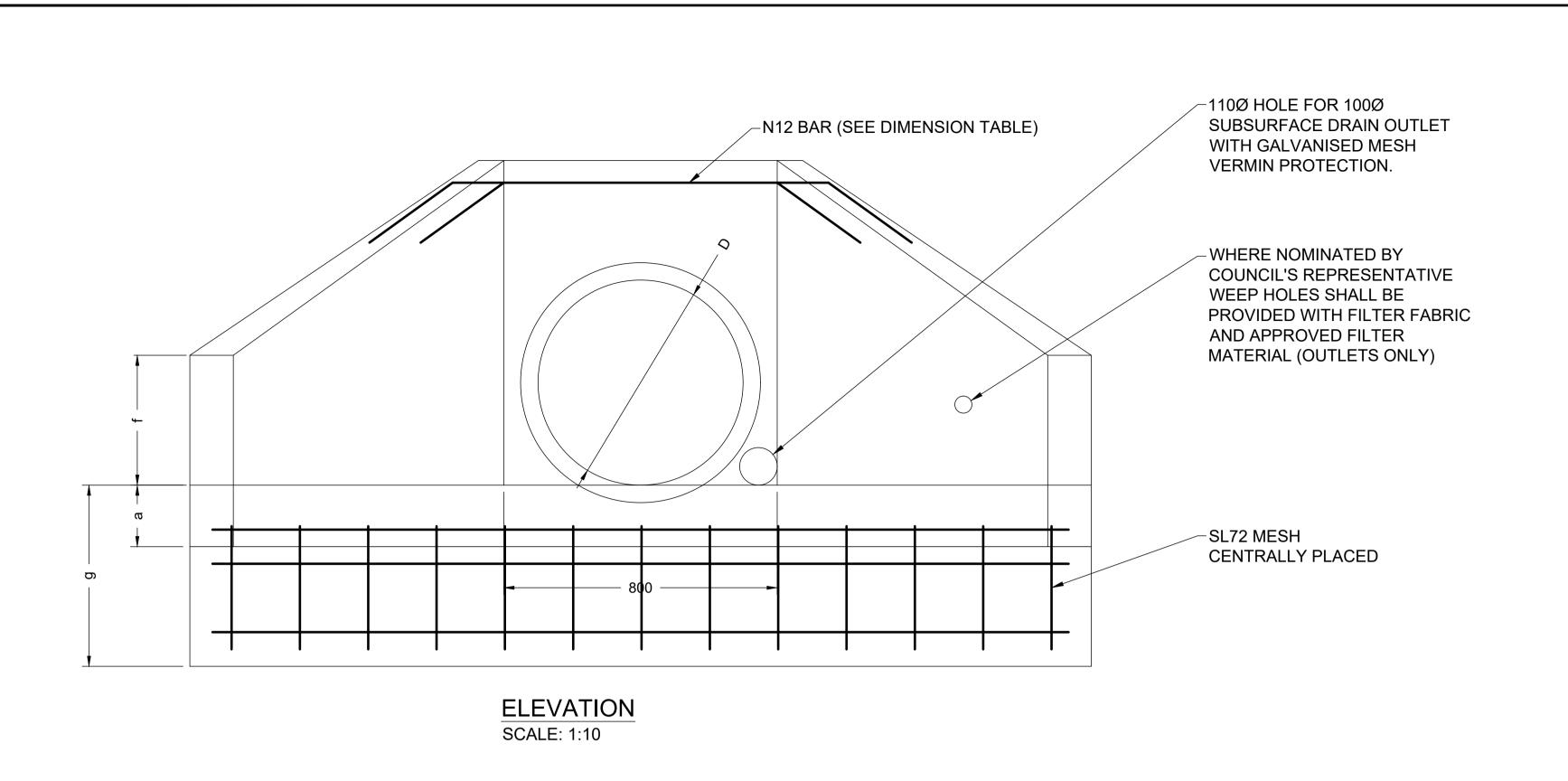
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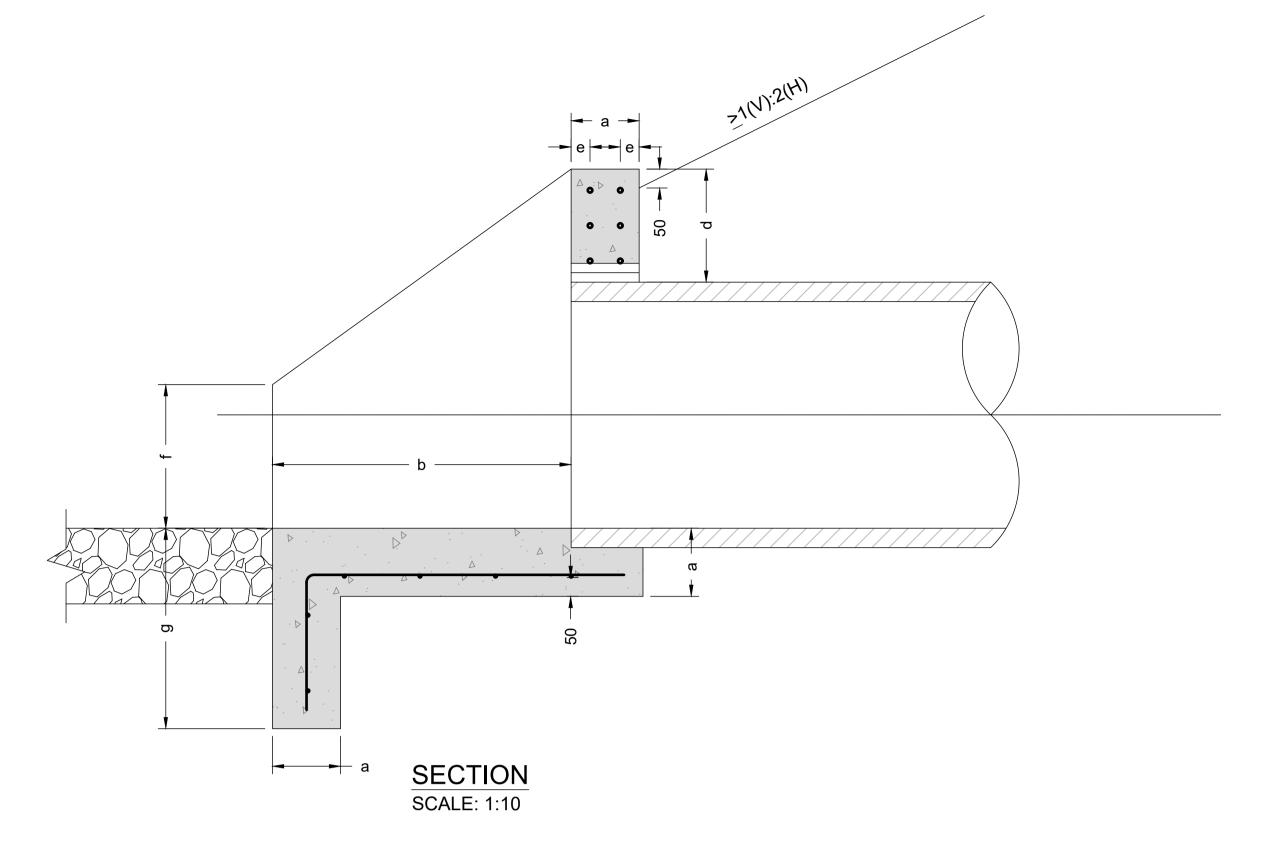
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HEADWALL SCOUR PROTECTION TYPICAL TREATMENT

Sheet 1 OF 1 A1

Drawing No. SCSD-428 Version 1





- USE OF PRECAST HEADWALL PREFERRED.
- . PROVIDE 25mm CHAMFER ON ALL EXPOSED SURFACES.
- . CONCRETE STRENGTH GRADE SHALL BE N32 MINIMUM.
- . HEADWALL WITH INTEGRAL ENERGY DISSIPATORS IN LIEU OF STANDARD HEADWALL SHALL BE PROVIDED WHERE CALCULATED VELOCITY EXCEEDS 2.0m/s.
- 5. WHERE ADDITIONAL HEIGHT TO RETAIN FILL IS REQUIRED KERB HEIGHT 'd', WINGWALL HEIGHT 'f' AND KERB WIDTH 'a' SHALL BE ADJUSTED WITH THE PROVISION OF ADDITIONAL REINFORCING.
- 6. WHERE NOMINATED BY COUNCIL'S REPRESENTATIVE OR SHOWN ON THE APPROVED PLANS, THE MATTRESS LENGTH SHALL BE ADJUSTED.
- 7. SAFETY FENCING SHALL BE PROVIDED AROUND THE HEADWALL WHERE DETERMINED BY COUNCIL'S REPRESENTATIVE.
- 8. REFER TO TfNSW STANDARD DRAWINGS FOR PIPE SIZES LARGER THAN 900Ø.
- REFER TO TINSW STANDARD DRAWINGS FOR LARGER PIPE DIAMETERS, MULTIPLE PIPES AND BOX CULVERTS.

D	Nominal pipe diameter	375	450	525	600	675	750	900
а	Apron, cut-off wall, kerb and wingwall	150	150	150	180	190	205	230
b	Apron length	490	590	700	790	910	1025	1260
٧	Face of HEadwall width	600	700	750	800	850	900	1050
d	Kerb Height	230	230	230	300	300	300	300
е	Kerb reinforcment cover	40	40	40	50	50	50	50
f	Wingwall Height	300	300	300	380	380	380	380
g	Cut-off wall depth	450	450	450	530	530	600	600
W	Wingwall	690	840	990	1120	1290	1450	1780
S	Mattress Length (See note 6)	1800	2000	2000	2400	2400	3000	3000
E1	L1 L1	840	915	990	1100	1175	1250	1400
	135° L2	200	200	200	600	600	600	600
	Reinfocement diameter	12	12	12	12	12	12	12

PLAN/SECTION SCALE: 1:10

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		1	ORIGINAL VERSION	12/09/2023
		Ver	Comments	Date

Notes

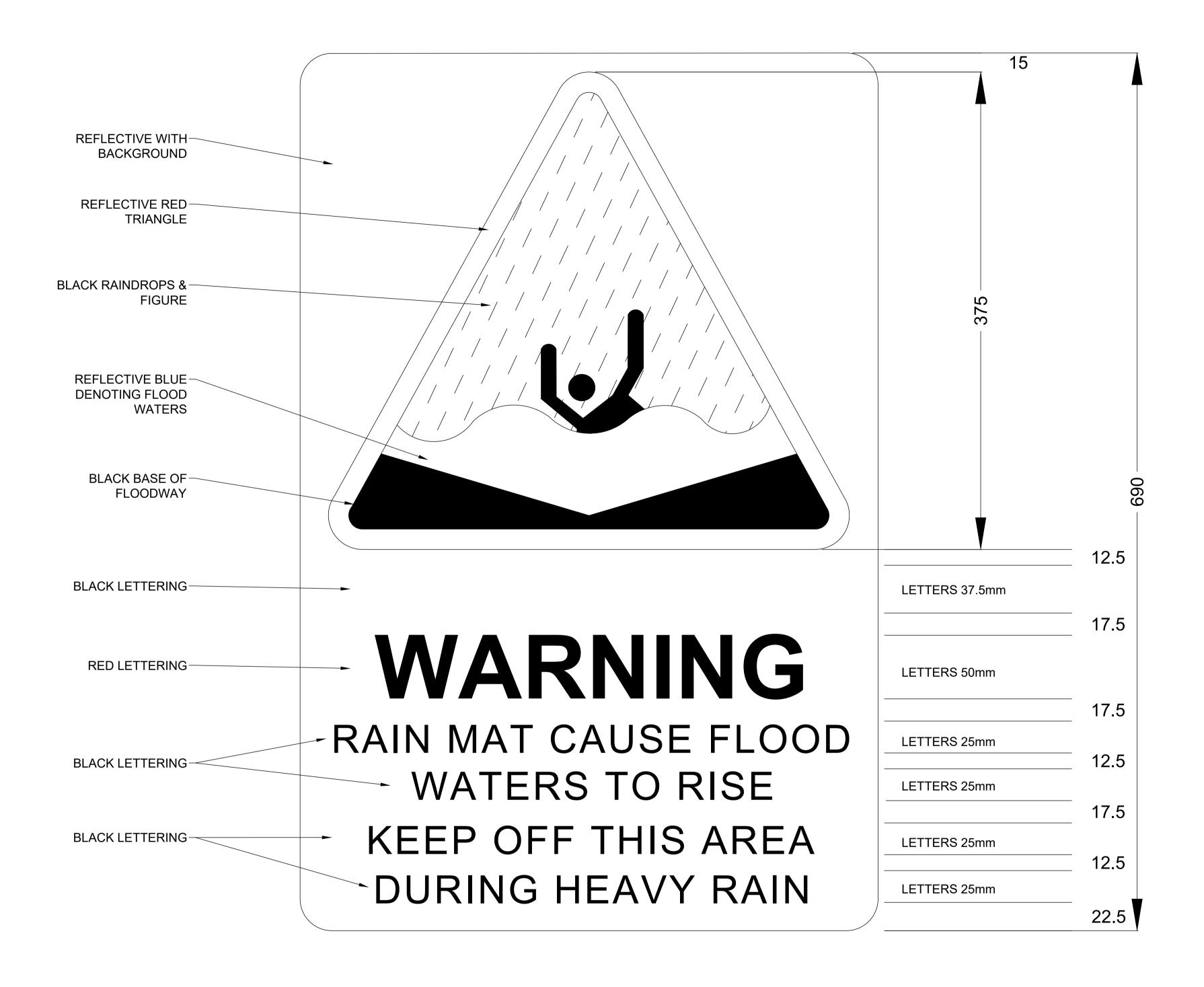
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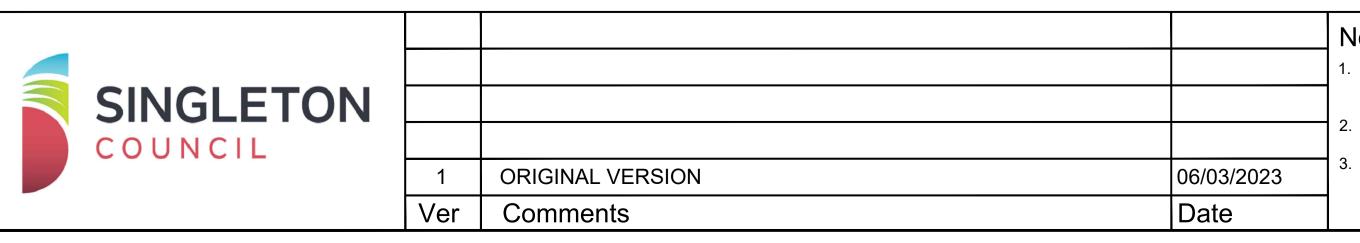
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Drawing Title
STORMWATER DRAINAGE SERIES
CONCRETE HEADWALL 375Ø TO 900Ø PIPES

CONTONETE	112,12,17,122,07,02,10,000,2,111		
Sheet	1 OF 1		A1
Drawing No.	SCSD-429	Version	1



NOTE: ALL LETTERING TO BE "E" SERIES



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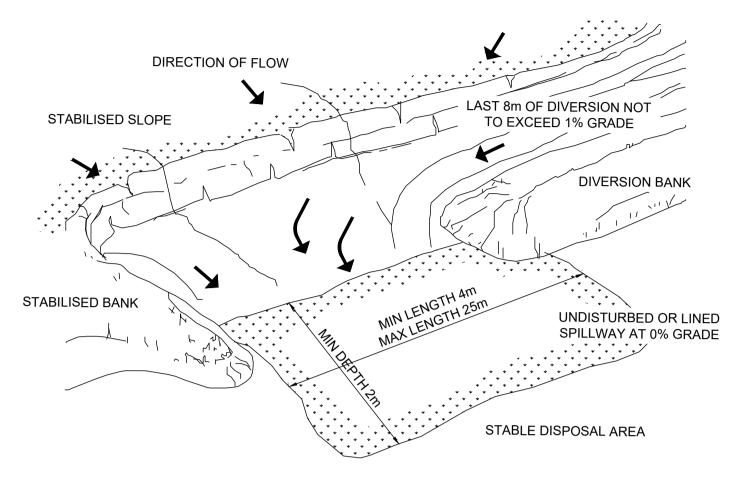
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Drawing Title FLOOD WARNING SIGNAGE



LEVEL SPREADER DETAIL

SINGLETON				
		1	ORIGINAL VERSION	22/03/2023
		Ver	Comments	Date

Notes

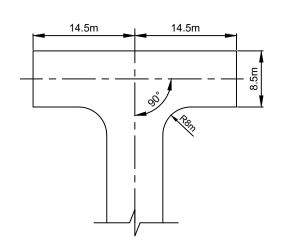
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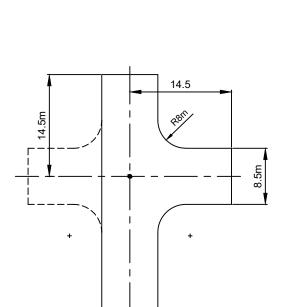
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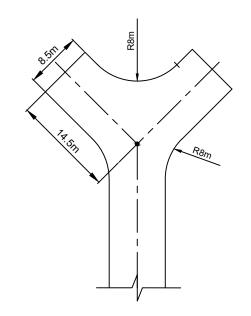
Phone: (02) 6578 7290 Fax: (02) 6572 4197 Drawing Title LEVEL SPREADER DETAIL

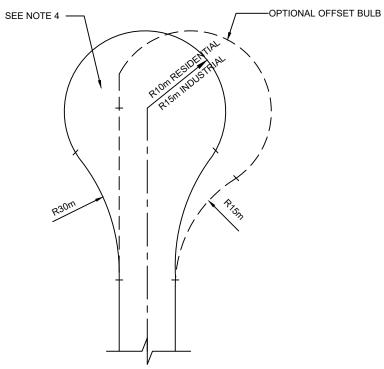
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A1 1 OF 1 Drawing No. SCSD-431 Version 1

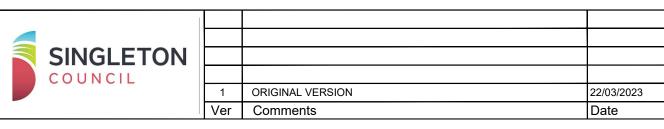








- 1. INCOMING WIDTHS TO SUIT ROAD CATEGORIES
- 2. NOTWITHSTANDING THE ABOVE DIMENSIONING, AUSTRALIAN STANDARD HB 72-1195 FOR HEAVY RIGID VEHICLES (HRV) SHALL BE USED TO VERIFY ADEQUATE MANOEUVERING AREA
- 3. VARIATIONS TO THESE MAY BE CONSIDERED DEPENDING ON CIRCUMSTANCES
- 4. TEMPORARY BULB TO BE MIN. 9.7m RADIUS. ONE COAT SEAL ON APPROVED PAVEMENT



Notes

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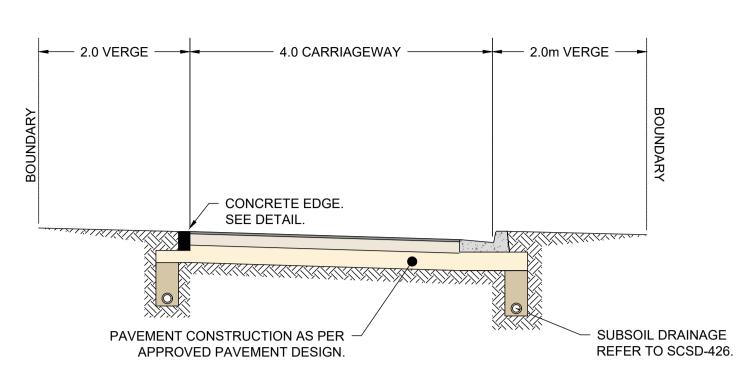
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TURNING AREAS FOR CUL-DE-SACS

Sheet	1 OF 1		A3
Drawing No.	SCSD-701	Version	1

BASE COURSE SUB-BASE SUB

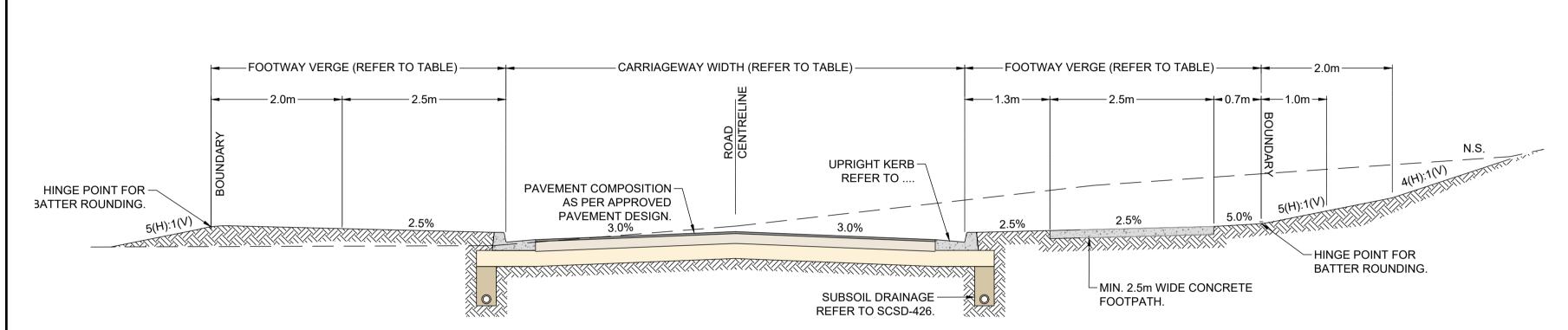
TYPICAL PAVEMENT CONNECTION DETAIL



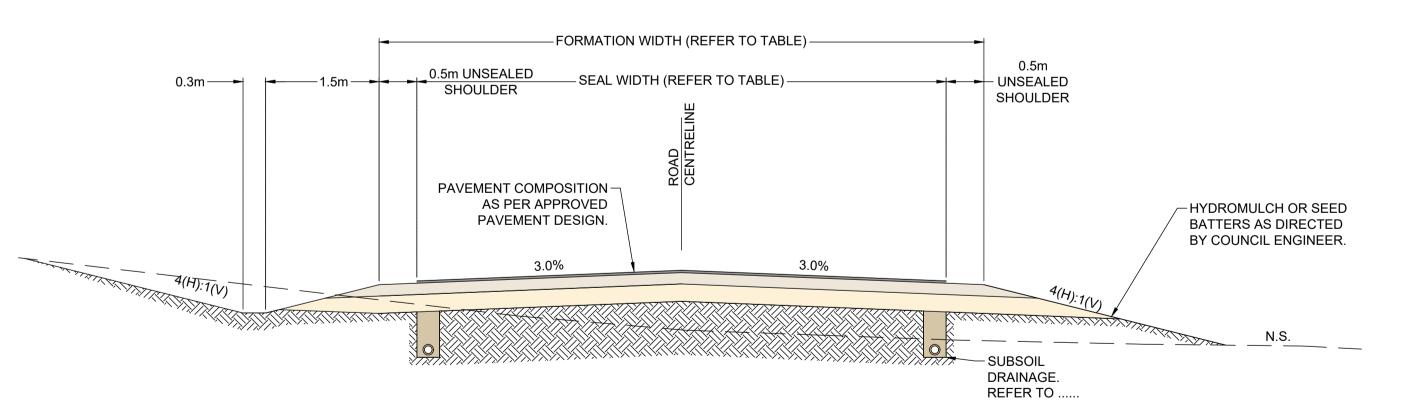
TYPICAL SECTION - LANEWAY

NOTES:

- 1. FOR CARRIAGEWAY, FOOTWAY & FOOTPATH WIDTHS SEE ROAD DESIGN SECTION OF "MANUAL OF ENGINEERING STANDARDS"
- 2. TYPICAL CROSSFALL ON CARRIAGEWAY TO BE -3% FROM CENTRELINE
- 3. TYPICAL CROSSFALL ON FOOTWAY TO BE +4.0% (25:1) FROM TOP OF KERB TO BOUNDARY
- 4. FOR PUBLIC UTILITY ALLOCATIONS IN FOOTWAYS SEE SD001
- 5. FOOTPATH WARRANT SEE ROAD DESIGN SECTION OF "MANUAL OF ENGINEERING STANDARDS" MINIMUM FOOTPATH WIDTH 1.5m, CROSSFALL TO BE +2.5% MAXIMUM WITH DESIGN TO SCSD 201 & SCSD 102.



TYPICAL SECTION - FULL ROAD CONSTRUCTION (NEW SUBDIVISIONS) NTS

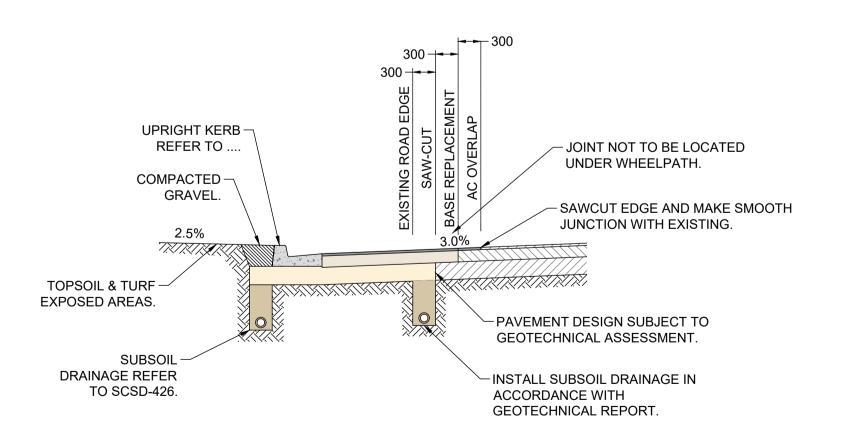


TYPICAL SECTION - RURAL ROAD CONSTRUCTION

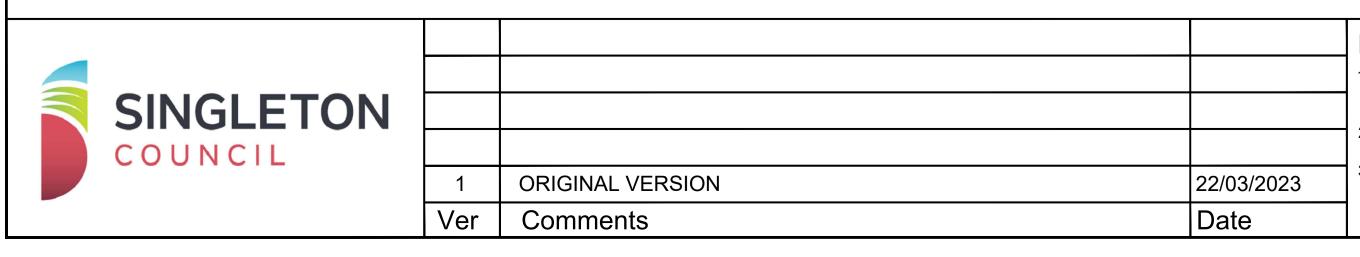
	Road Types and Dimensions									
Road Type	Maximum traffic volume (vpd)	Max No. Lots	Reserve Width (m)	Carriageway / Kerb-Kerb (m)	Formation width (m)	Footway Verge (m)	Kerb Type	Footpath (2.5m Wide) (1)	Minimum Design ESA (4)	Maximum Longitudinal Gradient (%)
Urban Local 3 (Laneway) (2)	20	-	8	4	-	2	Upright one side	As Required	1 x 105	15
Urban Local 2	300	50	17	8	-	4.5	Upright	One Side	2 x 105	15
Urban Local 1	2500	100	18	9	-	4.5	Upright	One Side	5 x 105	15
Urban Collector	6000	600	20	11	-	4.5	Upright	One Side	5 x 106	12
Urban Sub-Arterial	>6000	3500	22	13	-	4.5	Upright	Both Sides	1 x 107 min	10
Industrial - Secondary	60	-	20	11	-	4.5	Upright	As Required	5 x 106	6
Industrial - Primary	>60	-	22	13	-	4.5	Upright	As Required	1 x 107	6

RURAL ROADS										
Road Type	Maximum traffic volume (vpd)	Min Lot Area	Reserve Width (m)	Minimum Pavement/Seal Width (m)	Formation width (m)	Footway Verge (m)	Kerb Type	Footpath (2.5m Wide)	Design ESA	Maximum Longitudinal Gradient (%)
Rural Local 3 / Cul-de-Sac	150	40Ha	20	4	6	8	As Required	As Required	1 x 105 min	15
Rural Local 2	250	20000	20	6	7	7	As Required	As Required	Per 'lots' above	15
Rural Local 1	1000	10000	20	7	8	6.5	As Required	As Required	Per 'lots' above	15
Rural Collector	2000	5000	20	8	10	6	As Required	As Required	Per 'lots' above	10
Rural Sub-Arterial	>2000	2000	20	11	12	4.5	As Required	As Required	Per 'lots' above	8

NOTES:
REFER TO ENGINEERING GUIDELINES FOR SPECIFIC NOTES.



TYPICAL SECTION - ROAD WIDENING NTS



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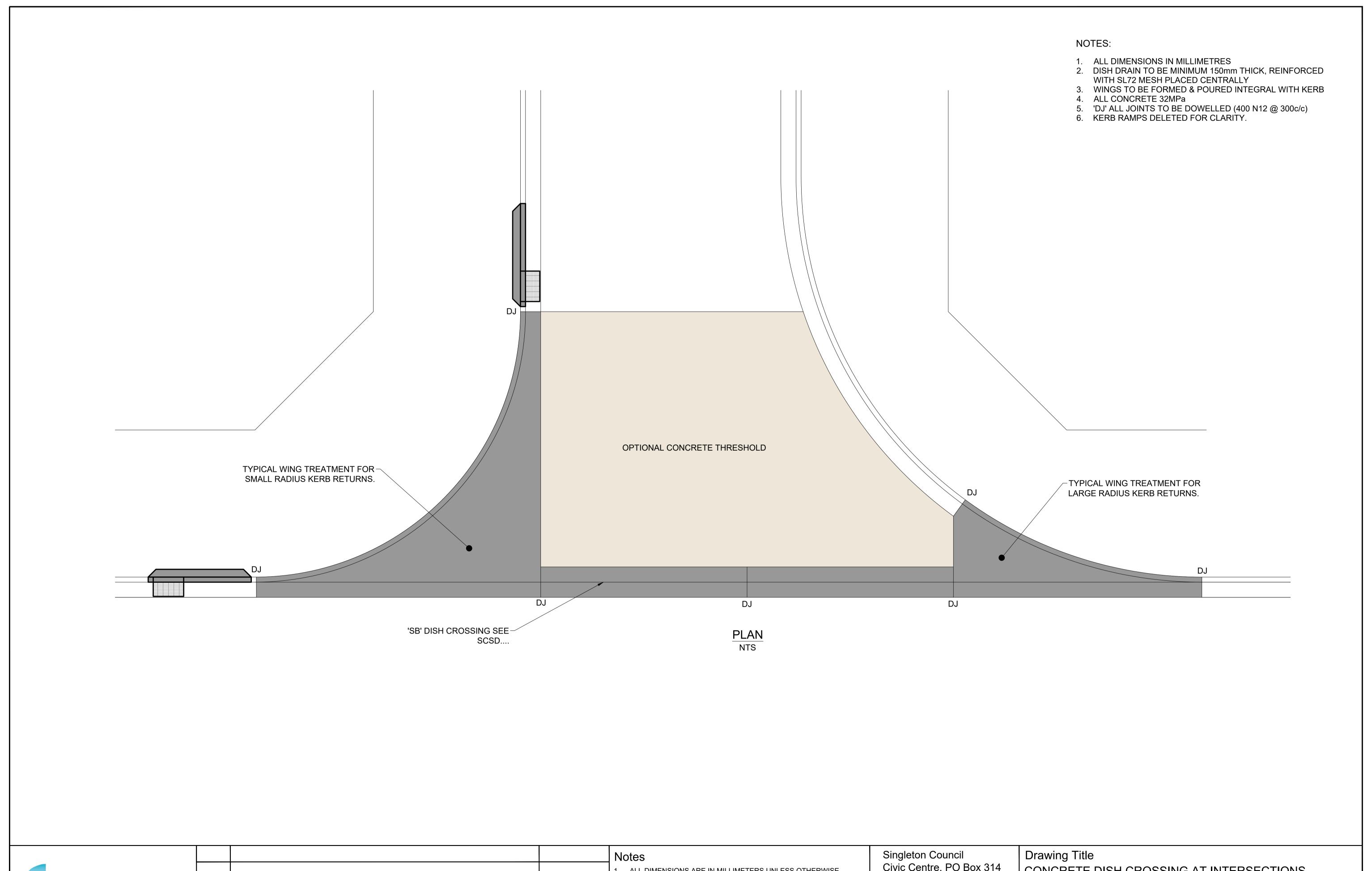
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TYPICAL URBAN AND RURAL ROADS

Sheet 1 OF 1

Ov.au

Drawing No. SCSD-702

Version 1



SINGLETON	1 Ver	ORIGINAL VERSION Comments	22/03/2023 Date	Notes 1. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE STATED. 2. DRAWING IS NOT TO SCALE, WORK TO STATED DIMENSIONS. 3. DO NOT RELY ON THESE STANDARD DRAWINGS AS THE EQUIVALENT OF, OR SUBSTITUTE FOR, PROJECT SPECIFIC DESIGN AND ASSESSMENT BY A QUALIFIED PROFESSIONAL.	Singleton Council Civic Centre, PO Box 314 Singleton, NSW, 2330 Phone: (02) 6578 7290 Fax: (02) 6572 4197 www.singleton.nsw.gov.au	Sheet	le E DISH CROSSING AT I 1 OF 1 . SCSD-703	NTERSECTIONS	A1 1
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