

STANDARD DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
ROADWORKS	
DH-RD-1000	TYPICAL RESIDENTIAL KERB
DH-RD-1010	KERB & WATERTABLE INSTALLATION ABUTTING EXISTING PAVEMENT
DH-RD-1015	STANDARD STORMWATER KERB OUTLET DETAILS-INSTALLED DURING CONSTRUCTION
DH-RD-1020	HEAVY DUTY STORMWATER KERB OUTLET DETAILS - EXISTING KERB
DH-RD-1025	KERB RAMP SPECIFICATIONS SHEET 1 OF 2
DH-RD-1030	KERB RAMP SPECIFICATIONS SHEET 2 OF 2
DH-RD-2000	TYPICAL PEDESTRIAN CROSSING ARRANGEMENT DETAIL
DH-RD-2005	TYPICAL CONCRETE FOOTPATH DETAIL SHEET 1 OF 2
DH-RD-2010	TYPICAL CONCRETE FOOTPATH DETAIL SHEET 2 OF 2
DH-RD-2015	TYPICAL HOT MIX ASPHALT FOOTPATH
DH-RD-2020	BLOCK PAVED FOOTPATH
DH-RD-2025	RETROFIT RESIDENTIAL VEHICLE CROSSING DETAIL
DH-RD-2030	RESIDENTIAL VEHICLE CROSSING DETAIL
DH-RD-2035	VEHICLE BLOCK PAVED CROSSING DETAIL
DH-RD-2045	VEHICLE CROSSING LONGITUDINAL SECTIONS
DH-RD-2050	ROUNDBOUT INSTALLATION TYPE 1
DH-RD-2055	ROUNDBOUT INSTALLATION TYPE 2
DH-RD-2060	TERMINATION ROAD TURNAROUND PROVISIONS
DH-RD-2065	TYPICAL PAVEMENT SUBSOIL DRAINAGE
DH-RD-2070	TYPICAL ROAD CROSSING TRENCH BACKFILL REQUIREMENTS
DH-RD-2075	TYPICAL BUS STOP DETAIL
DH-RD-3000	TYPICAL ROAD CROSS SECTION AND PLAN ACCESS STREET
DH-RD-3001	TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 1 COLLECTOR/CONNECTOR STREET
DH-RD-3002	TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 1 COLLECTOR/CONNECTOR STREET WITH INDENTED CARPARK
DH-RD-3004	TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 2 COLLECTOR ROAD (ON-ROAD CYCLEWAY)
DH-RD-3005	TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 2 COLLECTOR ROAD (OFF-ROAD CYCLEWAY)

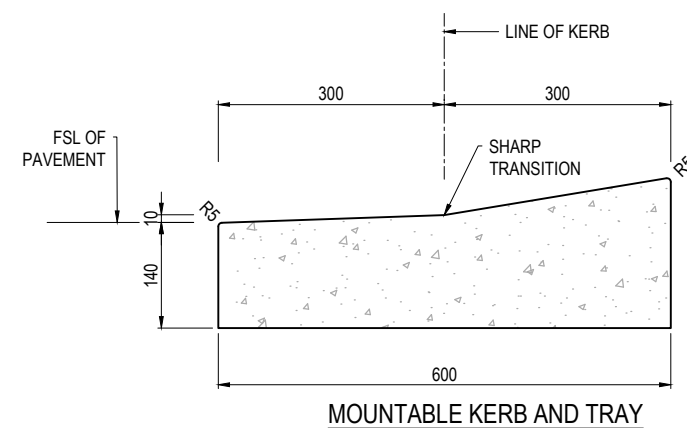
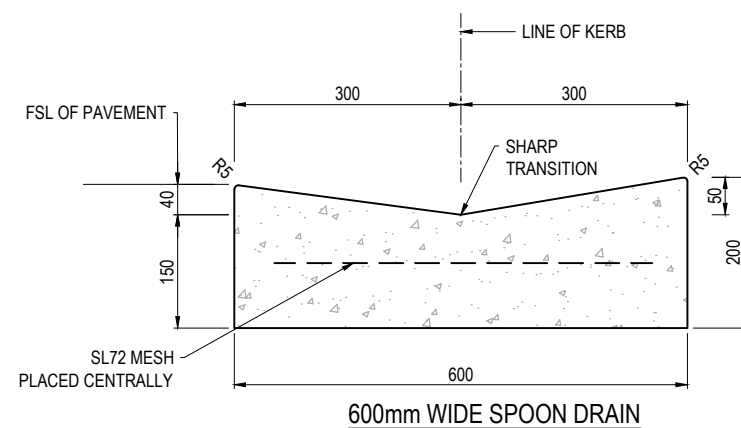
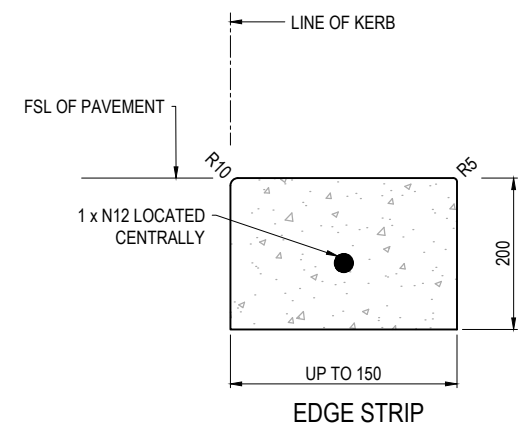
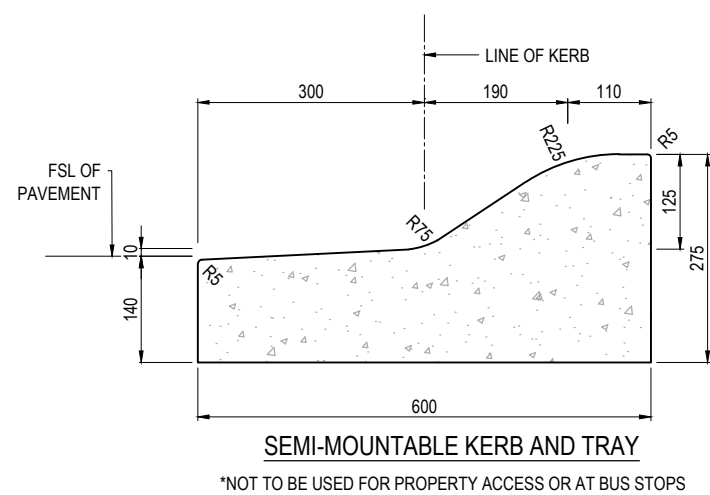
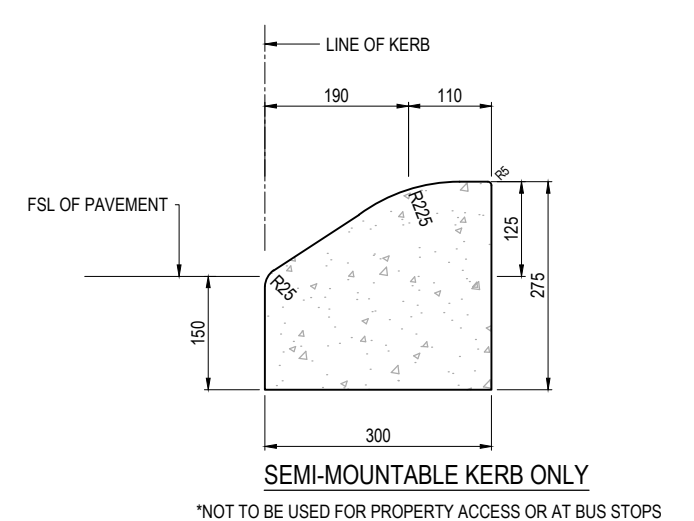
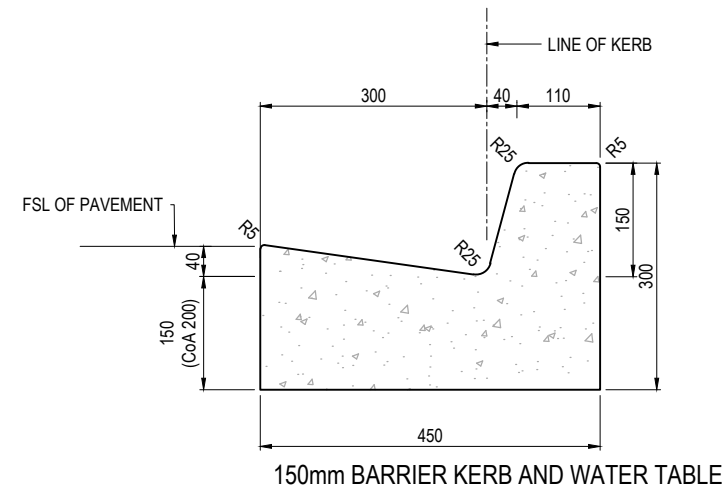
STANDARD DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
STORMWATER	
DH-SW-3050	DRAIN STORMWATER ALLOTMENT TO KERB AND CHANNEL CONNECTION
DH-SW-3055	STORMWATER ALLOTMENT DRAIN CONNECTION TO AUTHORITY PIPELINE
DH-SW-3060	STORMWATER ALLOTMENT CONNECTION IN EASEMENT DETAIL
DH-SW-3065	SUBSOIL DRAINAGE FLUSHOUT RISER DETAIL
DH-SW-5000	STORMWATER PITS REINFORCEMENT DETAILS
DH-SW-5005	STORMWATER JUNCTION PIT
DH-SW-5010	STORMWATER DEPRESSED GRATED PIT
DH-SW-5020	STORMWATER SIDE ENTRY PIT 900mm INLET
DH-SW-5025	STORMWATER SIDE ENTRY PIT AND LIDS WITH PRECAST LINTEL
DH-SW-5030	STORMWATER DOUBLE SIDE ENTRY PIT 1900mm INLET
DH-SW-5035	PRECAST SIDE ENTRY PIT INLET WITH GRATE INLINE
DH-SW-5040	OFFSET SIDE ENTRY PIT WITH 900mm INLET GRATE
DH-SW-5100	BANDAGE JOINT
DH-SW-5200	STANDARD HEADWALL FOR PIPES 300-375 DIAMETER
DH-SW-5205	STANDARD HEADWALL FOR PIPES 450-750 DIAMETER
DH-SW-5210	STANDARD HEADWALL FOR SINGLE PIPES 675-1800 DIAMETER
DH-SW-5215	STANDARD HEADWALL FOR TWIN PIPES 675-1800 DIAMETER
DH-SW-5220	CONCRETE ENDWALL FOR PIPES UP TO Ø300mm (WALKWAYS, PATHS AND TRACKS)
DH-SW-5225	NATURAL LOOK CONCRETE AND BOULDER HEADWALL
DH-SW-5300	STORMWATER CATCH DRAIN DETAILS
DH-SW-5400	STORMWATER DRAINAGE PIPE ANCHOR BLOCK
DH-SW-5600	POST AND RAIL SAFETY BARRIER AROUND DROP ZONES
DH-SW-6100	BIORETENTION STANDARD NOTES
DH-SW-6101	BIORETENTION DRAINAGE PROFILE TYPE 1 SATURATED ZONE UNCONSTRAINED
DH-SW-6102	BIORETENTION DRAINAGE PROFILE TYPE 1 SATURATED ZONE CONSTRAINED
DH-SW-6103	BIORETENTION DRAINAGE PROFILE TYPE 2 - SEALED

STANDARD DRAWING INDEX	
DRAWING NUMBER	DRAWING TITLE
DH-SW-6104	BIORETENTION DRAINAGE PROFILE TYPE 3 - CONVENTIONAL
DH-SW-6105	BIORETENTION DRAINAGE PROFILE TYPE 4 - PIPELESS
DH-SW-6110	LARGE BIORETENTION SEDIMENT FOREBAY
DH-SW-6111	BIORETENTION WEIR
DH-SW-6113	BIORETENTION SWALE TYPICAL SECTIONS
DH-SW-6120	STREETSCAPE BIORETENTION
DH-SW-6121	BIORETENTION POD SEDIMENT FOREBAY
DH-SW-6130	BIORETENTION STREET TREE
DH-SW-6210	SEDIMENT BASIN TYPICAL PLAN AND SECTION
DH-SW-6211	CONSTRUCTED WETLAND TYPICAL PLAN AND SECTIONS
DH-SW-6220	WETLAND LOW FLOW RISER OUTLET
DH-SW-6230	TYPICAL POND/WETLAND EDGE TREATMENTS
DH-SW-6310	PORUS PAVEMENT – TYPICAL SECTION

Drawing Number	Drawing Title
LANDSCAPE	
DH-LS-7000	TYPICAL TREE PLANTING VERGE DETAIL (NON IRRIGATED)
DH-LS-7001	TYPICAL TREE PLANTING VERGE DETAIL (IRRIGATED)
DH-LS-7002	TYPICAL TREE PLANTING VERGE DETAIL (DOUBLE BUNTING)
DH-LS-7003	TYPICAL TREE PLANTING VERGE DETAIL (NARROW VERGE)
DH-LS-7004	TYPICAL TREE PLANTING DETAIL (LANE WAY)
DH-LS-7005	STREET TREE PLANTING DETAIL
DH-LS-7006	STREET TREE PLANTING DETAIL (NO FOOTPATH)
DH-LS-7007	STREET TREE PLANTING DETAIL (PATH AGAINST KERB)

DRAWINGS HAVE BEEN DEVELOPED FROM IPWEA STANDARDS WITH DHUD AMENDMENTS

FIRST ISSUE A M E N D M E N T S	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	<div><div></div><div><div>Government of South Australia</div><div>Department for Housing and Urban Development</div></div></div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	DRAWING TITLE COVER SHEET/ DRAWING LIST PROJECT No. 24-000479 DRAWING No. DH-GE-0000 MILESTONE REVISION D	
					19/12/24								ISSUED FOR REVIEW
					20/12/24								ISSUED FOR REVIEW
					02/04/25								CLIENT SUBMISSION
					08/05/25	CLIENT SUBMISSION							



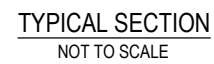
- ## NOTES:
1. CONCRETE SHALL BE NORMAL CLASS N25 STANDARD STRENGTH GRADE COMPLYING WITH THE REQUIREMENTS OF AS. 1379 UNLESS OTHERWISE NOTED.
 2. BEDDING TO BE PM2 / 20 COMPACTED TO 96% MMDD TO AS1289 METHOD 5.2.1. BEDDING TO EXTEND MIN. 300mm BEHIND BACK OF KERB. THICKNESS MIN. 100mm OR MATCH EXISTING PAVEMENT.
 3. CONCRETE TO BE SMOOTH TROWELLED FINISHED ON TRAY AND KERB.
 4. CONCRETE SPONGE FINISHED ON LAYBACK.
 5. SHRINKAGE CONTROL JOINTS (TOOLED JOINT) LOCATED AT 2500mm MAXIMUM SPACING. MIN. 50% OF SECTION AREA TO BE CUT. FINISHED WITH TOOLED JOINT 20mm DEPTH, 5mm WIDE.
 6. CONSTRUCTION JOINTS AS REQUIRED TO BE IN ACCORDANCE WITH AS 2876.
 7. WHERE ADJACENT PAVEMENT IS BLOCK PAVED OR CONCRETE.
 8. BACKFILL BEHIND KERB UNTIL FLUSH WITH COMPACTED APPROVED IN-SITU SITE MATERIAL OR PM2 / 20 COMPACTED TO 95% MMDD TO AS1289 METHOD 5.2.1.

ALL MEASUREMENTS IN MILLIMETRES


THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

REVISIONS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR INFORMATION	SCALE AS SHOWN	CLIENT		PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE TYPICAL RESIDENTIAL KERB				
	A				19/12/24									ISSUED FOR REVIEW	PROJECT No.	DRAWING No.	MILESTONE	REVISION
	B				20/12/24									ISSUED FOR REVIEW	24-000479	DH-RD-1000		C
	C				02/04/25									CLIENT SUBMISSION				

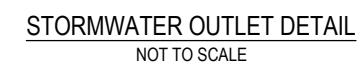
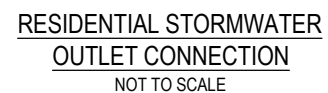
1. REFER TO DH-RD-1000 FOR KERB DETAILS.
2. FOR WIDTH MINIMUM OF 100 TO 350mm USE CONTROLLED LOW STRENGTH MATERIAL (CLSM) INFILL.
3. PM 2/20 RG TO BE USED INSTEAD OF PM 2/20 QG ONLY WHEN SPECIFICALLY APPROVED RELEVANT AUTHORITY.
4. REFER PAVEMENT DESIGN FOR PAVEMENT THICKNESS.
5. INSTALLATION OF KERBING SHALL BE IN ACCORDANCE WITH AS2876.
6. EXCAVATED MATERIAL SHALL NOT BE RE-USED IN THE BACKFILL REINSTATEMENT AND SHALL BE REMOVED OFFSITE.



ALL MEASUREMENTS IN MILLIMETRES


PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR INFORMATION	SCALE AS SHOWN	CLIENT	<div><div>Government of South Australia</div><div>Department for Housing and Urban Development</div></div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE KERB & WATERABLE INSTALLATION ABUTTING EXISTING PAVEMENT	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479	DRAWING No. DH-RD-1010	MILESTONE C	REVISION	
	FIRST ISSUE																		
	A				19/12/24														ISSUED FOR REVIEW
	B				20/12/24														ISSUED FOR REVIEW
	C				02/04/25														CLIENT SUBMISSION

1. ALL WELDING TO HAPPEN BEFORE GALVANISING. SITE WELDING AND COLD GALVANISING ARE NOT PERMITTED.

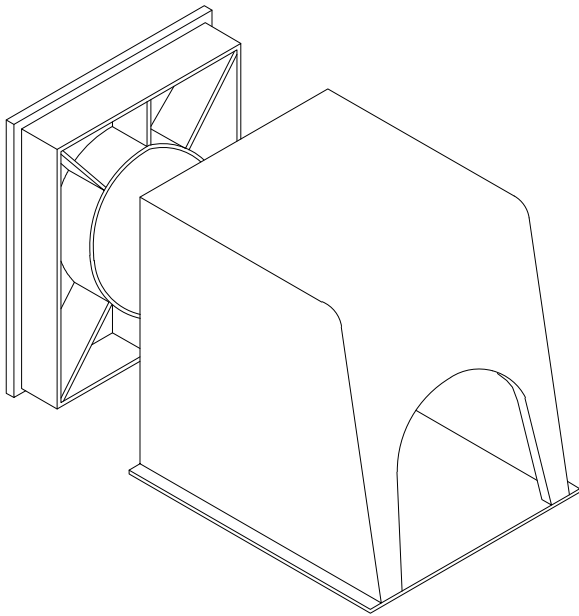


PROVIDE ONE OUTLET PER 10m OF FRONTAGE
ON LOW SIDE OF LOT (UP TO 2 OUTLETS PER LOT)

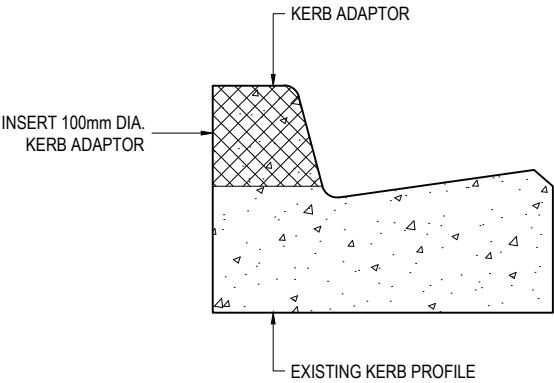
ALL MEASUREMENTS IN MILLIMETRES

	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE STANDARD STORMWATER KERB OUTLET DETAILS-INSTALLED DURING CONSTRUCTION
A					19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479
B				02/04/25	CLIENT SUBMISSION	DRAWING No. DH-RD-1015					
						MILESTONE					
						REVISION					

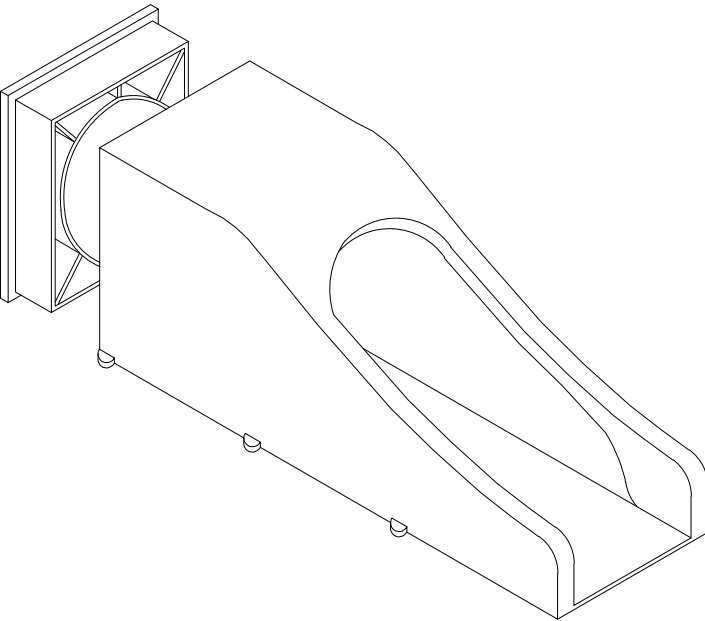
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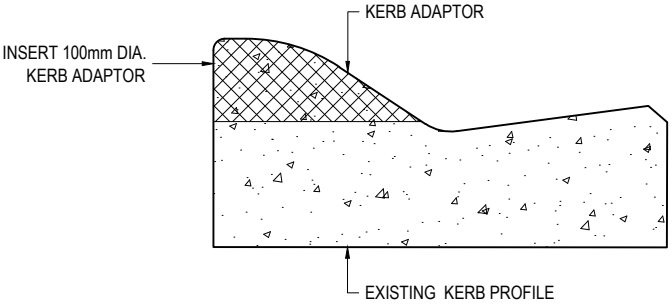
KERB ADAPTOR - UPRIGHT KERB



UPRIGHT KERB WITH KERB ADAPTOR SECTIONAL VIEW



KERB ADAPTOR - SEMI MOUNTABLE KERB



SEMI MOUNTABLE KERB WITH KERB ADAPTOR SECTIONAL VIEW

- NOTES:
1. ALL KERB ADAPTORS ARE TO BE AN APPROVED PROPRIETARY PRODUCT CONSTRUCTED FROM EITHER HEAVY DUTY UPVC OR HOT DIPPED GALVANIZED MILD STEEL.
 2. KERB IS TO BE NEATLY SAW CUT & KERB ADAPTOR EPOXIED INTO POSITION.

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					19/12/24	ISSUED FOR REVIEW
B					02/04/25	CLIENT SUBMISSION
C						
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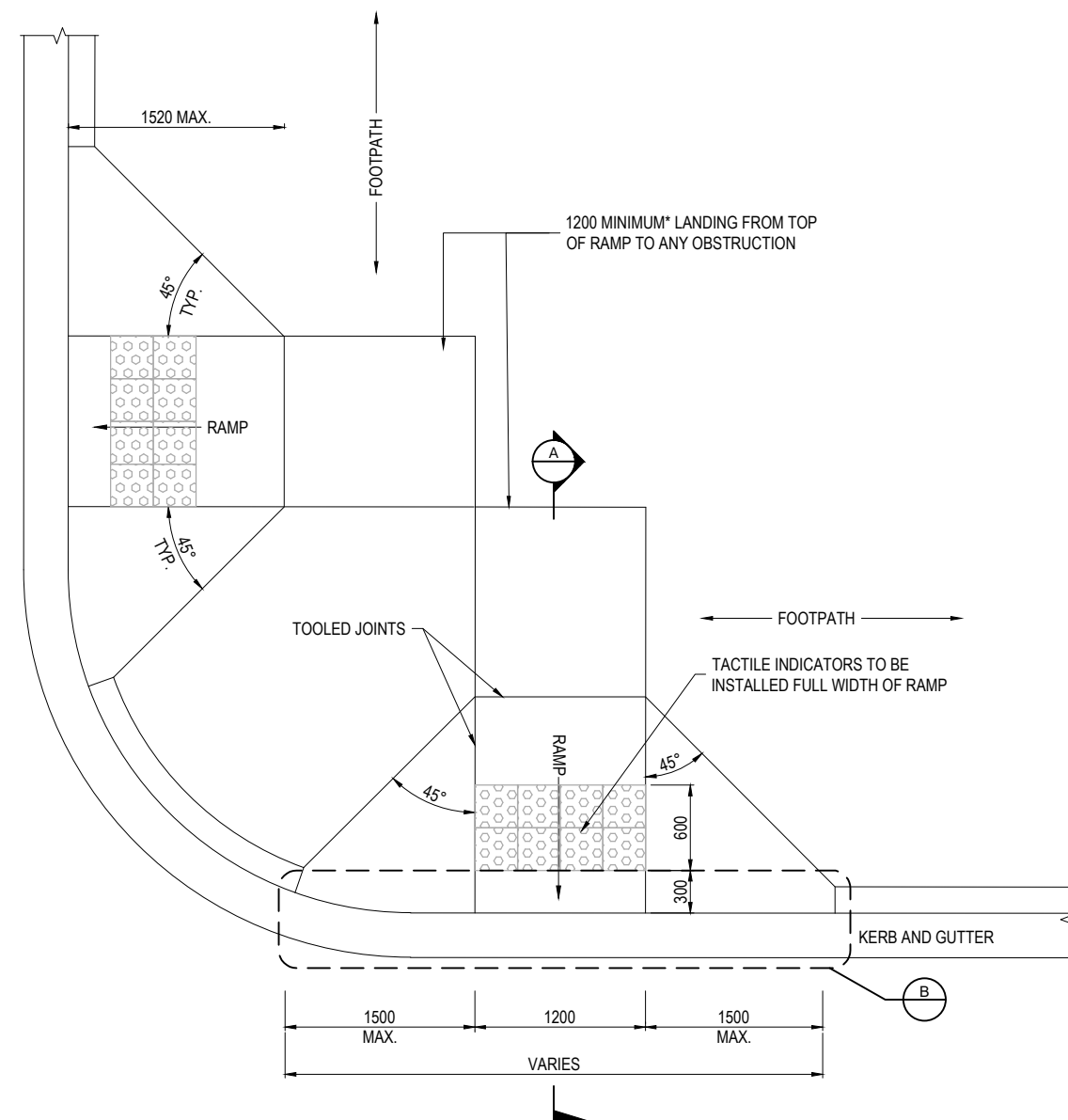
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FOR INFORMATION

SCALE AS SHOWN

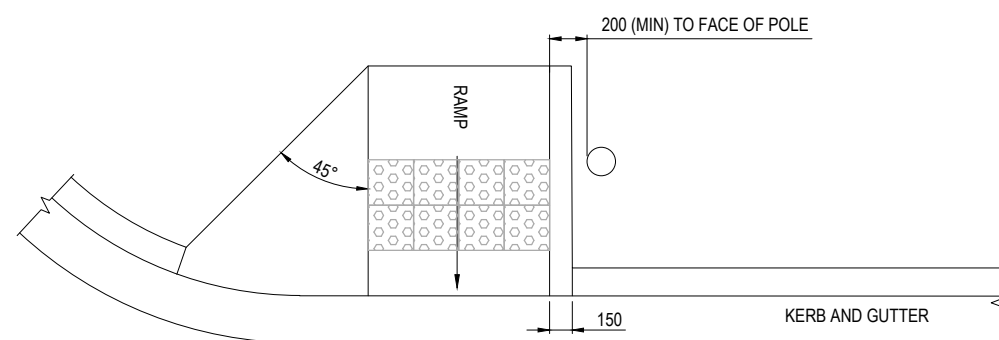
CLIENT
 Government of South Australia Department for Housing and Urban Development

PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
HEAVY DUTY STORMWATER KERB OUTLET DETAILS - EXISTING KERB			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-RD-1020		B



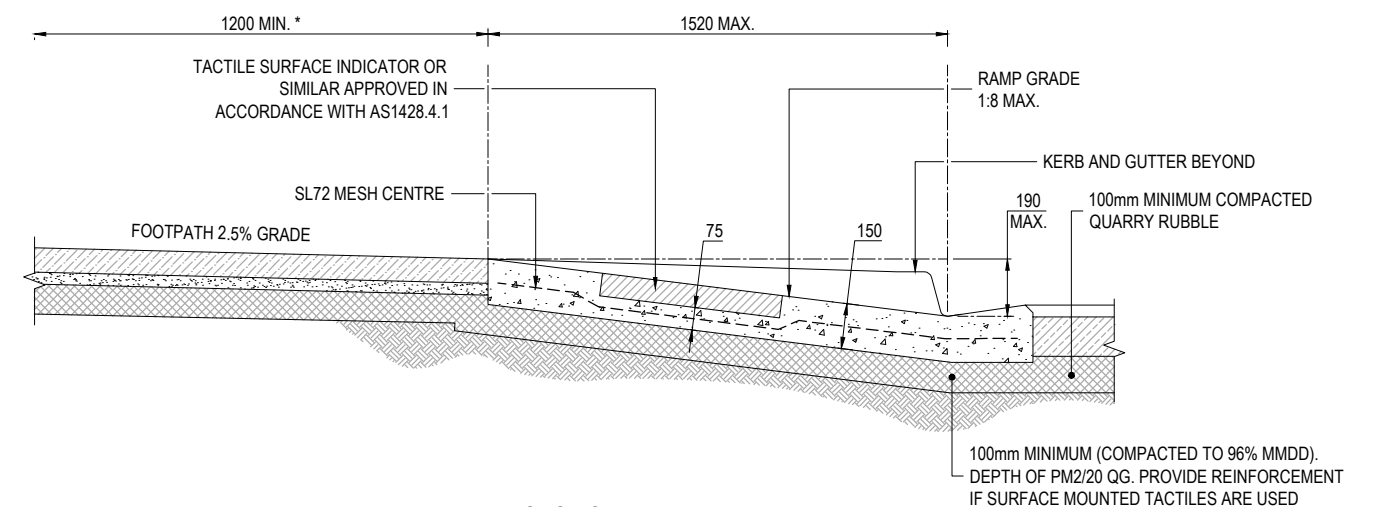
KERB RAMP PLAN
NOT TO SCALE



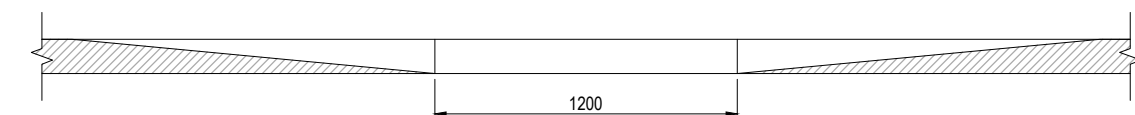
KERB RAMP WITH VERTICAL SIDE - PLAN
NOT TO SCALE

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AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

- ## NOTES:
1. THE RAMP AND SLOPING SIDES SHALL BE SLIP RESISTANT WITH TACTILE SURFACE INDICATORS (CONTRASTING COLOUR), TYPE 'B' AND SHALL BE INSTALLED IN ACCORDANCE WITH AS1428.4.1. COLOUR TO BE CONFIRMED BY LOCAL AUTHORITY. REFER TO AS1428.4.1.
 2. CONCRETE GRADE SHALL BE N32 FOR KERB, GUTTERS AND RAMPS.
 3. KERB RAMPS MUST CONFORM WITH AS1428.4.1.
 4. KERB RAMP WINGS CAN BE STEEPENED AND A HAND RAIL PROVIDED IN LOCATIONS WHERE ACCESS FROM THE SIDES IS NOT POSSIBLE, OR ON CURVES.




SECTION A-A
NOT TO SCALE

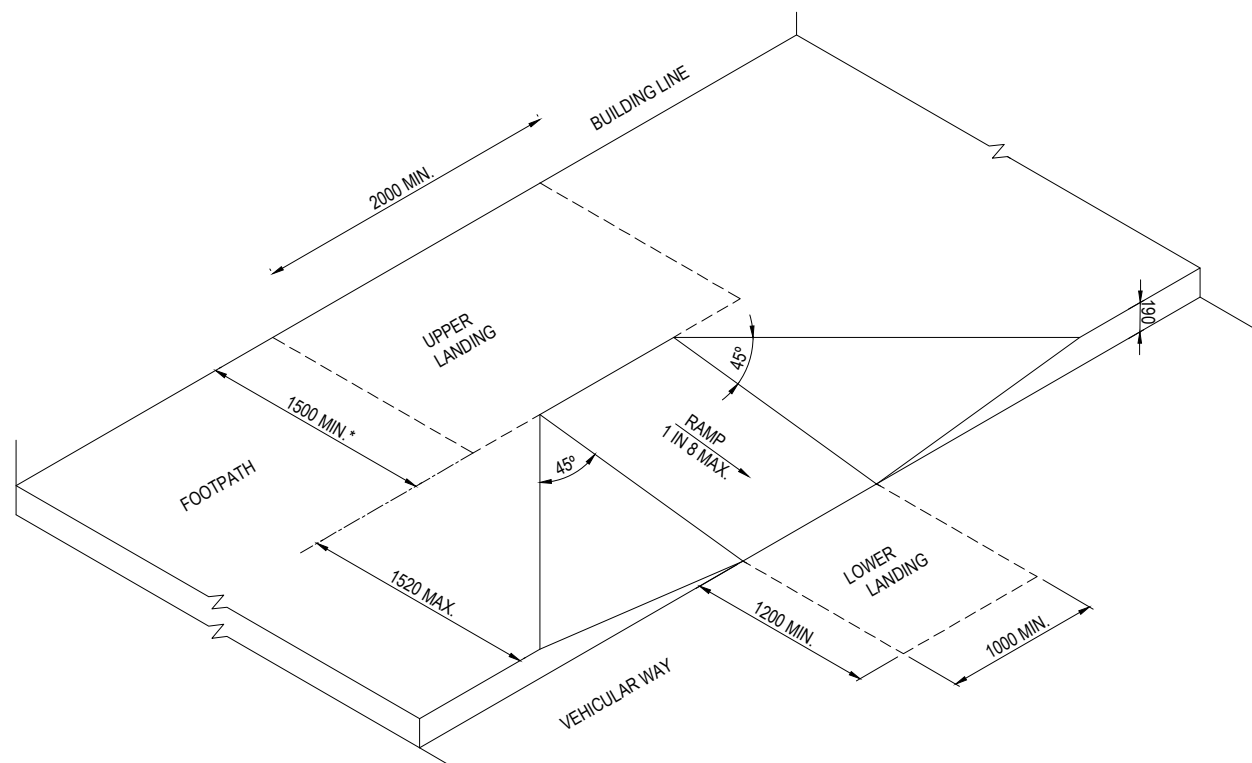


ELEVATION B
NOT TO SCALE

* DENOTES MINIMUM DIMENSION. TO BE 1500 IF A TURN IN DIRECTION OF TRAVEL IS REQUIRED.

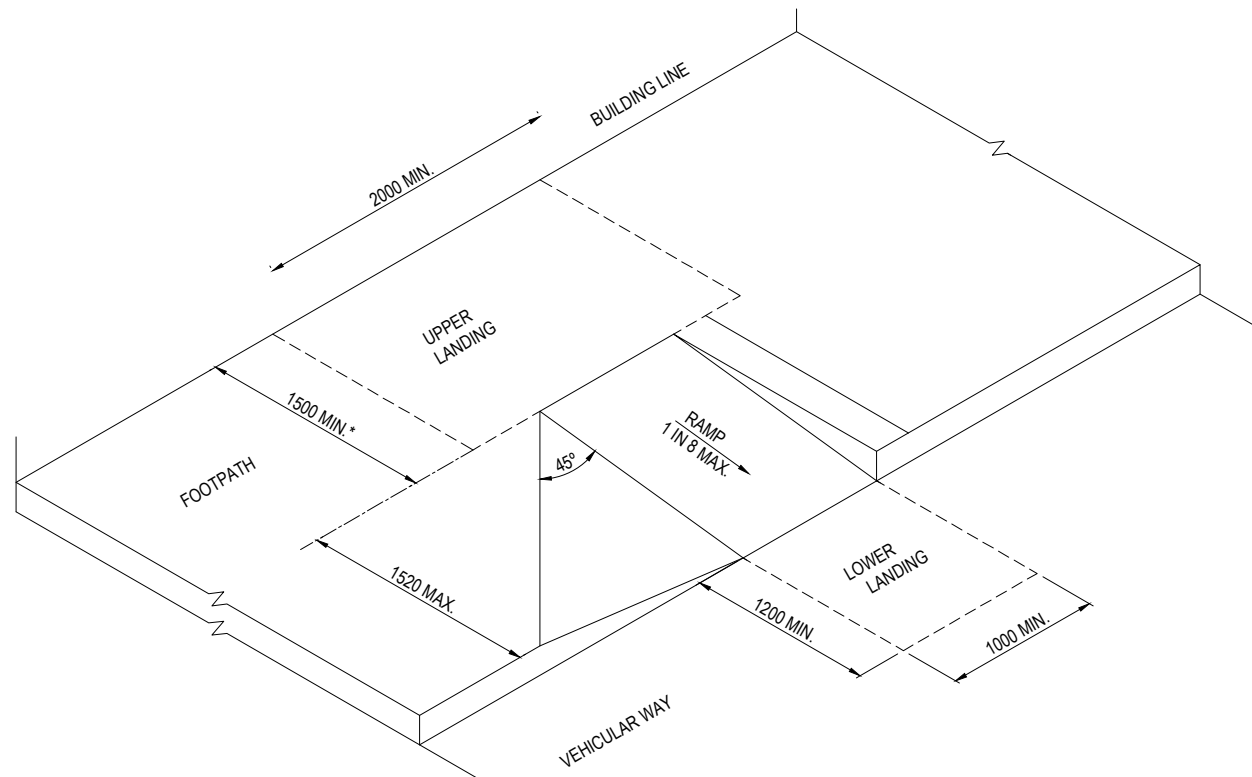
ALL MEASUREMENTS IN MILLIMETRES

	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE KERB RAMP SPECIFICATIONS SHEET 1 OF 2
FIRST ISSUE	A				19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	<small>DISCLAIMER</small> ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	<small>PROJECT No.</small> 24-000479
AMENDMENTS	B			02/04/25	CLIENT SUBMISSION	<small>DRAWING No.</small> DH-RD-1025					
						<small>MILESTONE</small> B					
						<small>REVISION</small> B					



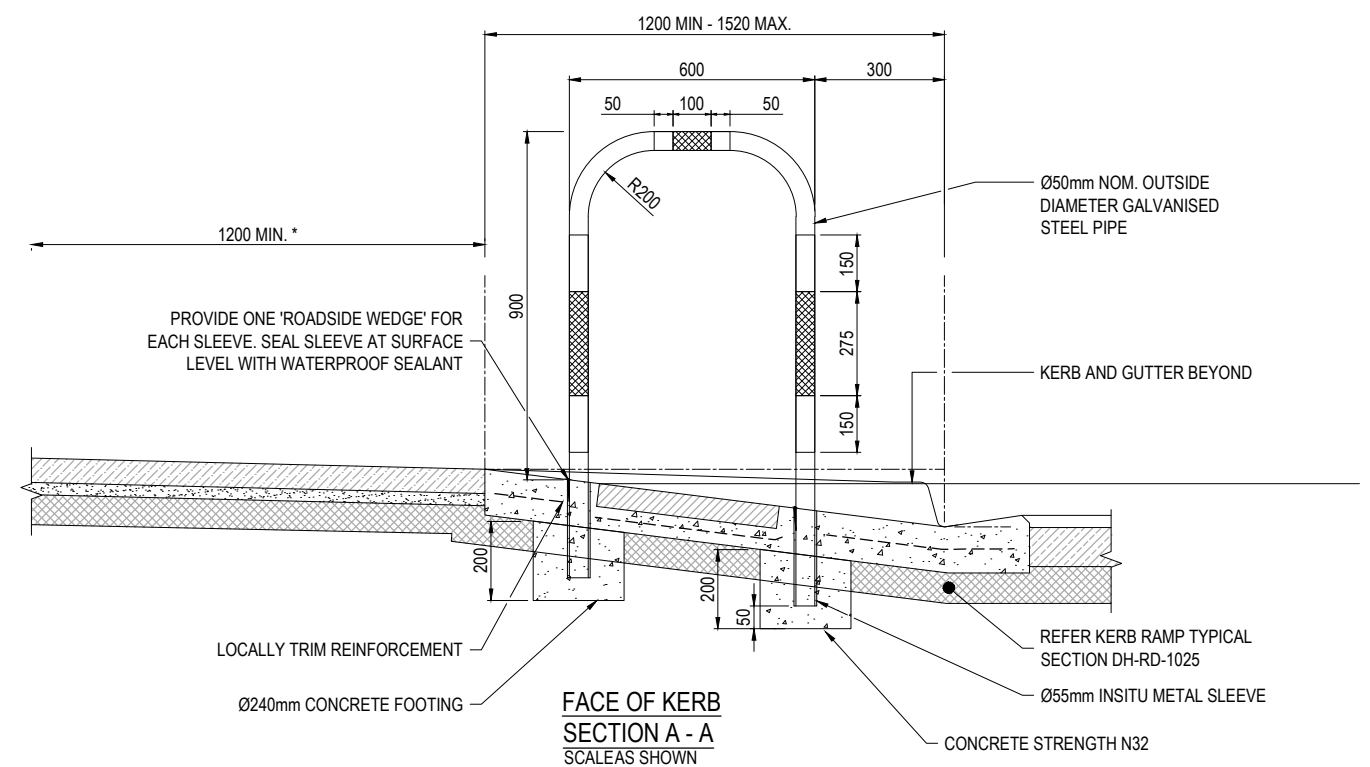
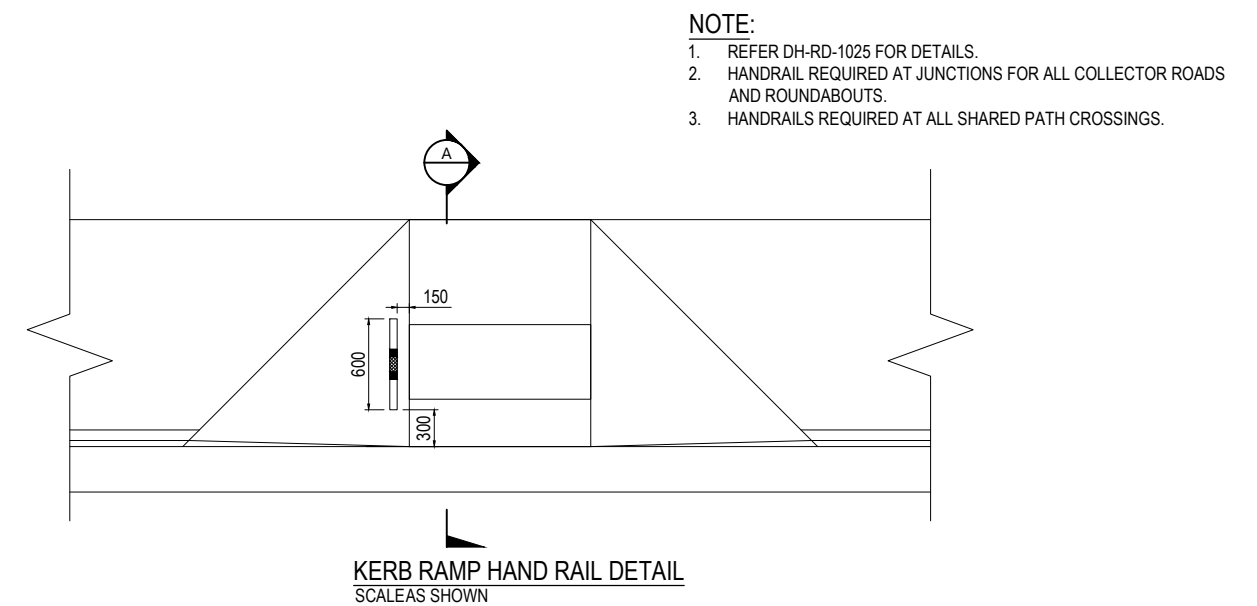
KERB RAMP ISOMETRIC VIEW
SCALE AS SHOWN

* WHERE THERE IS NO TURN INVOLVED, TOP LANDING MAY BE REDUCED TO 1200mm MIN. IN LENGTH



KERB RAMP WITH VERTICAL SIDE - ISOMETRIC VIEW
SCALE AS SHOWN

* WHERE THERE IS NO TURN INVOLVED, TOP LANDING MAY BE REDUCED TO 1200mm MIN. IN LENGTH



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AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

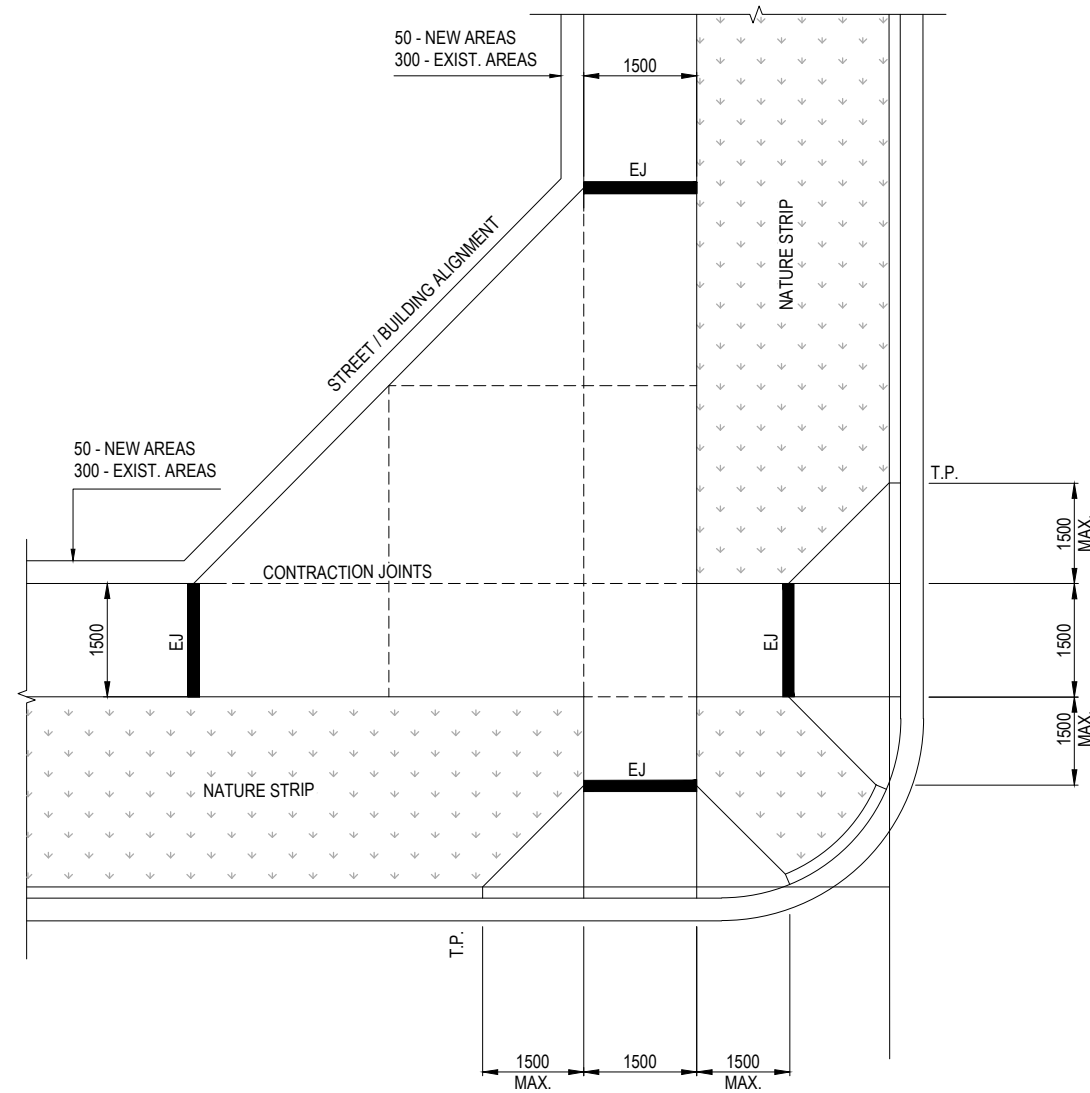
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	A				19/12/24	ISSUED FOR REVIEW								
	B				02/04/25	CLIENT SUBMISSION								
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.														
PROJECT No. 24-000479 DRAWING No. DH-RD-1030 MILESTONE B REVISION														

LEGEND:

EXPANSION JOINT EJ
 CONTRACTION JOINTS - - - - -

NOTES:

1. LOCATION OF CROSSINGS TO BE CASE BY CASE & ONLY WHERE APPROVED.
2. CROSSING GENERALLY TO BE LOCATED AT TANGENT POINTS.
3. CONCRETE TO BE SMOOTH TROWELLED FINISH ON TRAY.
4. CONCRETE TO BE FINE SOFT HAIR BROOM FINISH ON LAYBACK.
5. MINIMUM CONCRETE STRENGTH TO BE 32 MPA.
6. BEDDING TO BE COMPACTED PM2/20 QG 100mm MIN. THICKNESS.
7. IF SPLAY IS NOT REQUIRED FOOTPATH IS TO CONTINUE THROUGH TO LAYBACKS.
8. TGI'S (TILES), WHERE REQUIRED, ARE TO BE TO BE INSTALLED TO AS1428.4.

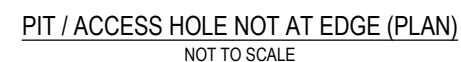
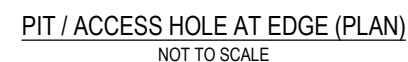
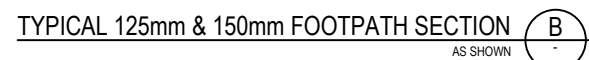
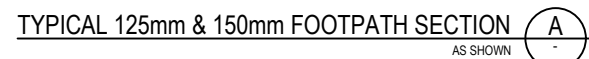


TYPICAL ARRANGEMENT PLAN
SCALE AS SHOWN


THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

[illegible]



ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE TYPICAL CONCRETE FOOTPATH DETAIL SHEET 1 OF 2
A M E N D M E N T S	A				19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479 DRAWING No. DH-RD-2005 MILESTONE REVISION B
	B				02/04/25	CLIENT SUBMISSION					

The diagram illustrates a cross-section of a concrete slab. A horizontal line represents the 'FUTURE SLAB'. Below it, a solid line indicates the 'SLAB REINFORCEMENT'. The distance from the future slab to the reinforcement is marked as 75. The total width of the slab is 400. The vertical distance from the reinforcement to the bottom edge is labeled D/2. A dashed line indicates the 'VERTICAL FACE TO BE FORMED WITH AN APPROVED METHOD'.

FORM 3-5mm JOINT TO A DEPTH OF 25% OF THE CONCRETE DEPTH USING A T-IRON TOOL OR BY SAWCUT. SAWCUT TO BE UNDERTAKEN WITHIN 24HRS OF POUR. FILL TOP 10mm WITH AN APPROVED POURING GRADE SILICON TO MANUFACTURERS SPECIFICATIONS. TOOL SEALANT TO FORM 5mm RECESS. SEALANT COLOUR TO MATCH PAVEMENT SURROUND.

A schematic diagram of a beam with a central crack. The beam is represented by two horizontal lines. A vertical crack is shown in the center, with a wavy line indicating the crack path. The crack is labeled "INDUCED CRACK" with an arrow pointing to it. The beam is divided into two sections by the crack. The left section is labeled "a" and the right section is labeled "b". The beam is supported by a central vertical support. The beam is shown in a cross-section view, with a dashed line indicating the crack path.

TOP 10mm TO BE FILLED WITH APPROVED
POURING GRADE SEALANT TO
MANUFACTURER'S SPECIFICATIONS
10mm THICK BITUMEN
IMPREGNATED FIBREBOARD OR AN
APPROVED EQUIVALENT FILLER
EXISTING STRUCTURE / SLAB

Figure 1 is a cross-sectional diagram of a composite slab. It shows three main layers: Invariant Filler (10 mm thick), Structure / Slab (100 mm thick), and Slab Reinforcement (300 mm thick). The total thickness of the slab is labeled as $D+50$. The Slab Edge Thickening is 75 mm. The Slab Reinforcement is indicated by a dashed line with triangles representing the reinforcement bars.

APPROVED 10mm WIDE BITUMINOUS JOINTING
STRIP OR APPROVED PROPRIETARY EXPANSION
JOINT FOR FULL WIDTH & DEPTH OF PATH
BETWEEN POURS. MAX SPACING 12m
APPROVED BOND BREAKING AGENT APPLIED —
TO DOWEL EXTEND 25mm BEYOND JOINT
PVC SLIP CAP TO SUIT DOWEL BAR □

— R12 x 450mm LONG DOWEL BAR AT 300mm CRS. MAX.
ENSURE DOWELS ARE ACCURATELY ALIGNED
PERPENDICULAR TO THE JOINT TO PREVENT 'LOCK
UP' DURING EXPANSION/CONTRACTION

MESH SLAB REINFORCEMENT -
REFER DH-RD-2005 FOR SIZE

NOTE:
LOCALLY DEEPEN WHERE $D \leq 125\text{mm}$

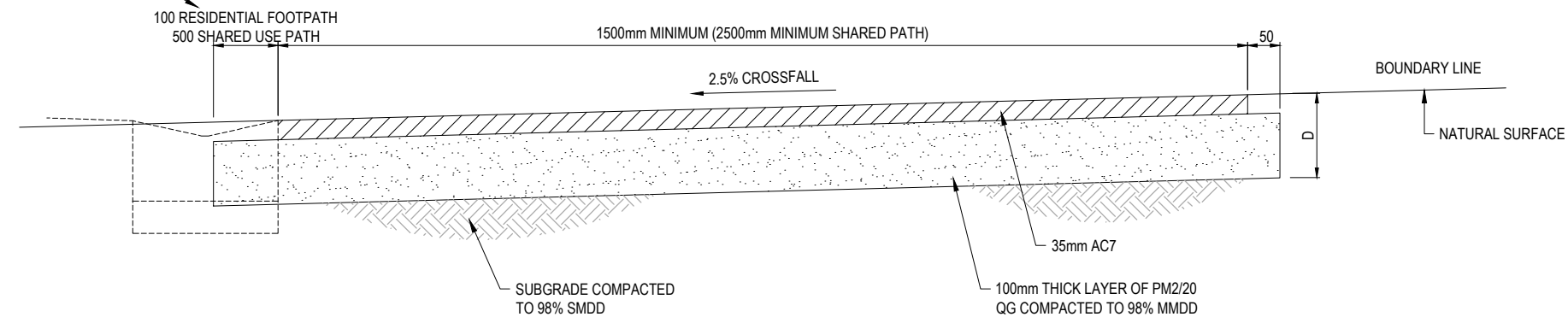
ALL MEASUREMENTS IN MILLIMETRES

[illegible]

NOTES:

1. 'D' = DEPTH OF ASPHALT FOOTPATH TYPICAL ASPHALT FOOTPATH DEPTH 'D'= 130mm TYPICAL 'D' MAY VARY DEPENDANT ON SUBGRADE CBR AND POSSIBLE MAINTENANCE OR EMERGENCY VEHICLE TRAFFIC ACCESS.
2. ASPHALT FOOTPATHS/ SHARED USE PATHS ARE REQUIRED TO HAVE A PAVEMENT DESIGN UNDERTAKEN BASED ON PROPOSED LOADING AND SITE CONDITIONS INCLUDING INVESTIGATION INTO THE GEOTECHNICAL REVIEW.


RESIDENTIAL FOOTPATHS ARE REQUIRED TO HAVE 100mm MIN. WIDE RUBBLE SHOULDER ON EDGE OF PATH, SHARED USE PATHS ARE REQUIRED TO HAVE 500mm WIDE SHOULDERS

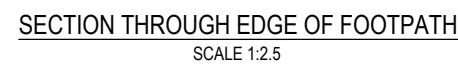


TYPICAL ASPHALT FOOTPATH SECTION
SCALE 1:5

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

REVISED AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS	FOR INFORMATION	SCALE	AS SHOWN	CLIENT	 <div>Government of South Australia Department for Housing and Urban Development</div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE TYPICAL HOT MIX ASPHALT FOOTPATH	
	A				19/12/24	ISSUED FOR REVIEW					0 0.05 0.1 0.15 0.2 0.25 0.3 0.35 0.4						
	B				02/04/25	CLIENT SUBMISSION											



1. CONCRETE PLINTH TO BE USED WHERE NOT BACK OF KERB, OR BOTH SIDES OF FOOTPATH WHEN NOT BACK OF KERB OR AGAINST FIXED EDGE.
2. MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE RELEVANT PUBLICATION OF THE CONCRETE MASONRY ASSOCIATION OF AUSTRALIA AND SHALL BE IN ACCORDANCE WITH BEST TRADE PRACTICE.
3. PAVING BLOCKS TO BE LAID IN 90° HERRINGBONE PATTERN WITH HEADER COURSE UP TO THE CONCRETE PLINTH OR AS SPECIFIED.
4. BLOCKS SHALL BE CONCRETE INTERLOCKING. COLOUR AND STYLE TO BE NOMINATED ON DRAWING APPROVED BY RELEVANT AUTHORITY. ALL JOINTS TO BE FILLED WITH SUPERSAND/OR PAVELOCK SAND.
5. ALL CUTTING OF PAVERS TO BE WITH MASONRY SAW ONLY.
6. CLAY PAVERS OR OTHER NON INTERLOCKING PAVERS ARE SUBJECT TO APPROVAL BASED ON PERFORMANCE REQUIREMENTS INCLUDING SLIP RESISTANCE AND STRENGTH.
7. USE 80mm THICK PAVERS AT ALL DRIVEWAY CROSSOVERS.

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE A A B C AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR INFORMATION	SCALE: AS SHOWN	CLIENT	 <div>Government of South Australia</div> <div>Department for Housing and Urban Development</div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. <u>NOT FOR CONSTRUCTION</u> UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE BLOCK PAVED FOOTPATH				
					19/12/24									ISSUED FOR REVIEW	PROJECT No.	DRAWING No.	MILESTONE	REVISION
					20/12/24									ISSUED FOR REVIEW	24-000479	DH-RD-2020		C
					02/04/25									CLIENT SUBMISSION				



FOR INFORMATION

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SCALE AS SHOWN



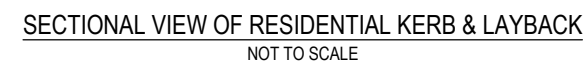
Government of South Australia
Department for Housing
and Urban Development

1. THIS DRAWING DETAILS DIMENSIONS FOR STANDARD RESIDENTIAL CROSSINGS ONLY.
2. CROSSINGS WIDTHS EXCEEDING THE MAXIMUM ALLOWABLE WILL REQUIRE APPLICATION FOR SPECIAL CONSIDERATION.
3. JOINTS AND DOWEL BARS ARE REQUIRED ON BOTH SIDES OF THE CROSSING AT THE INTERFACE WITH THE CONCRETE FOOTPATH. PROVISION SHALL BE MADE IN EXISTING CONCRETE SECTIONS BY DRILLING HOLES TO A MINIMUM DEPTH OF 150mm AND INSERTING Ø12x300mm LONG DOWEL BARS.
4. AN APPROVED JOINT FILLER SHALL BE PLACED ON BOTH SIDES OF THE CROSSING AGAINST FOOTPATH SLABS. DOWEL BARS ARE TO HAVE AN APPROVED BOND BREAKER APPLIED TO THE END OF THE BAR INSERTED INTO THE EXISTING CONCRETE FOOTPATH SECTIONS REFER DH-RD-2010.
5. ADDITIONAL TOOLED JOINT REQUIRED IF DISTANCE FROM BACK OF KERB TO FOOTPATH IS GREATER THAN 3000 AND SHALL BE PLACED AT THE MIDPOINT OF THE DISTANCE.
6. THE MAXIMUM NUMBER OF CROSSINGS, WHERE ANY CROSSING EXCEEDS 3.6m WIDTH, SHALL BE ONE (1) CROSSING WITH THE MAXIMUM WIDTH OF THAT CROSSING TO BE 6.6m. CROSSINGS TO ADJACENT PROPERTIES SHALL BE EITHER FULLY COMBINED, WITH A MAXIMUM WIDTH OF 6.6m, OR ELSE HAVE A MINIMUM SEPARATION OF 9m.
7. IF REVERSE FALL IS REQUIRED, DESIGN OF VEHICLE Crossover TO BE ON A SITE SPECIFIC BASIS.
8. LOCATION AND DEPTH OF ANY UNDERGROUND SERVICES WITHIN FOOTWAY AREA MUST BE ESTABLISHED BEFORE COMMENCEMENT OF EXCAVATION.
9. TRANSITION AREA TO CONFORM TO AS2890.1. ANY CHANGES OF GRADE GREATER THAN 12.5% TO BE CHECKED USING THE TEMPLATE IN APPENDIX C AS2890.1
10. A MINIMUM CLEARANCE OF 1m MUST BE ACHIEVED FROM THE DRIVEWAY EDGE TO ANY STREET ASSET. THIS INCLUDES STREET TREES, LIGHT POLES, SIDE ENTRY PITS, PEDESTRIAN RAMPS AND STOBIE POLES.
11. DRIVEWAY INVERTS FOR CORNER ALLOTMENTS SHALL BE LOCATED NO CLOSER THAN 6m FROM THE INTERSECTION OF THE PROJECTED ROAD FRONTAGE BOUNDARIES UNLESS APPROVED BY COUNCIL.
12. LOCATE DRIVEWAY ON LOW SIDE OF ALLOTMENT 1.0m FROM THE PROJECTED SIDE BOUNDARY OR AS SPECIFIED.



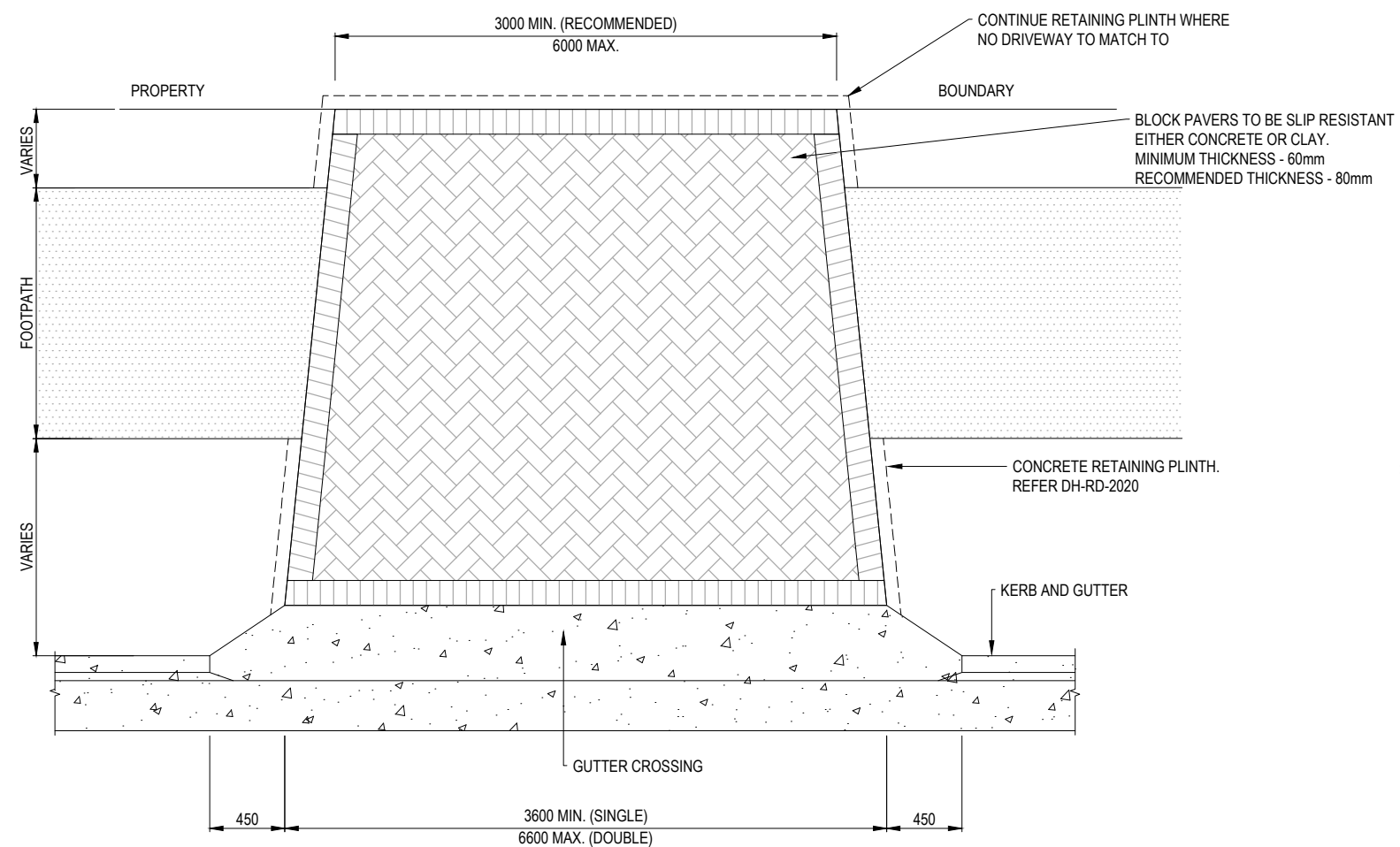
ALL MEASUREMENTS IN MILLIMETRES

<p>PROJECT</p> <p>SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS</p>	<p>DRAWING TITLE</p> <p>RETROFIT RESIDENTIAL VEHICLE CROSSING DETAIL</p>			
<p>DISCLAIMER</p> <p>ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. <u>NOT FOR CONSTRUCTION</u> UNLESS STAMPED BY CERTIFYING AUTHORITY</p>	<p>PROJECT No.</p> <p>24-000479</p>	<p>DRAWING No.</p> <p>DH-RD-2025</p>	<p>MILESTONE</p>	<p>REVISION</p> <p>B</p>

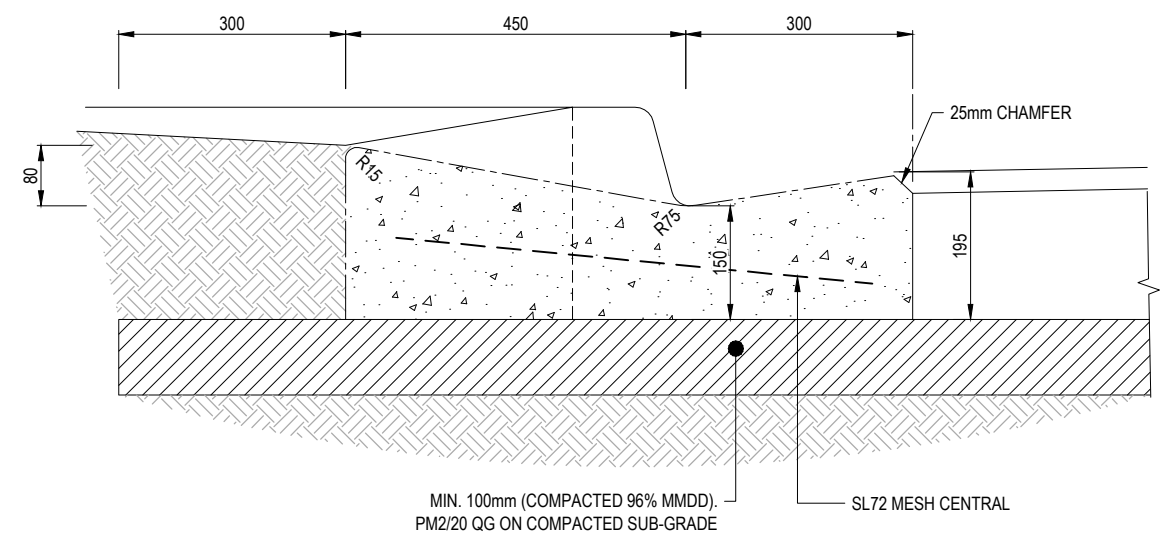


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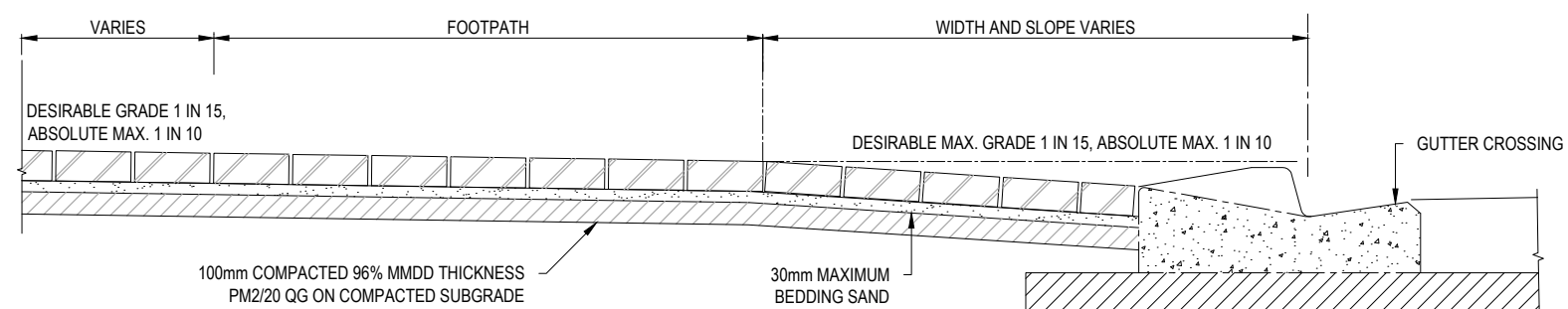
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PLAN OF BLOCK PAVED VEHICLE CROSS-OVER
SCALE 1:20



SECTIONAL VIEW OF RESIDENTIAL KERB & LAYBACK
SCALE 1:5



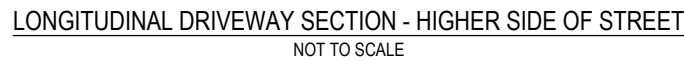
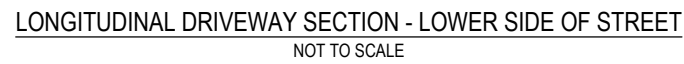
SECTIONAL VIEW OF VEHICLE CROSSOVER
SCALE 1:10
(HIGH SIDE OF STREET)

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

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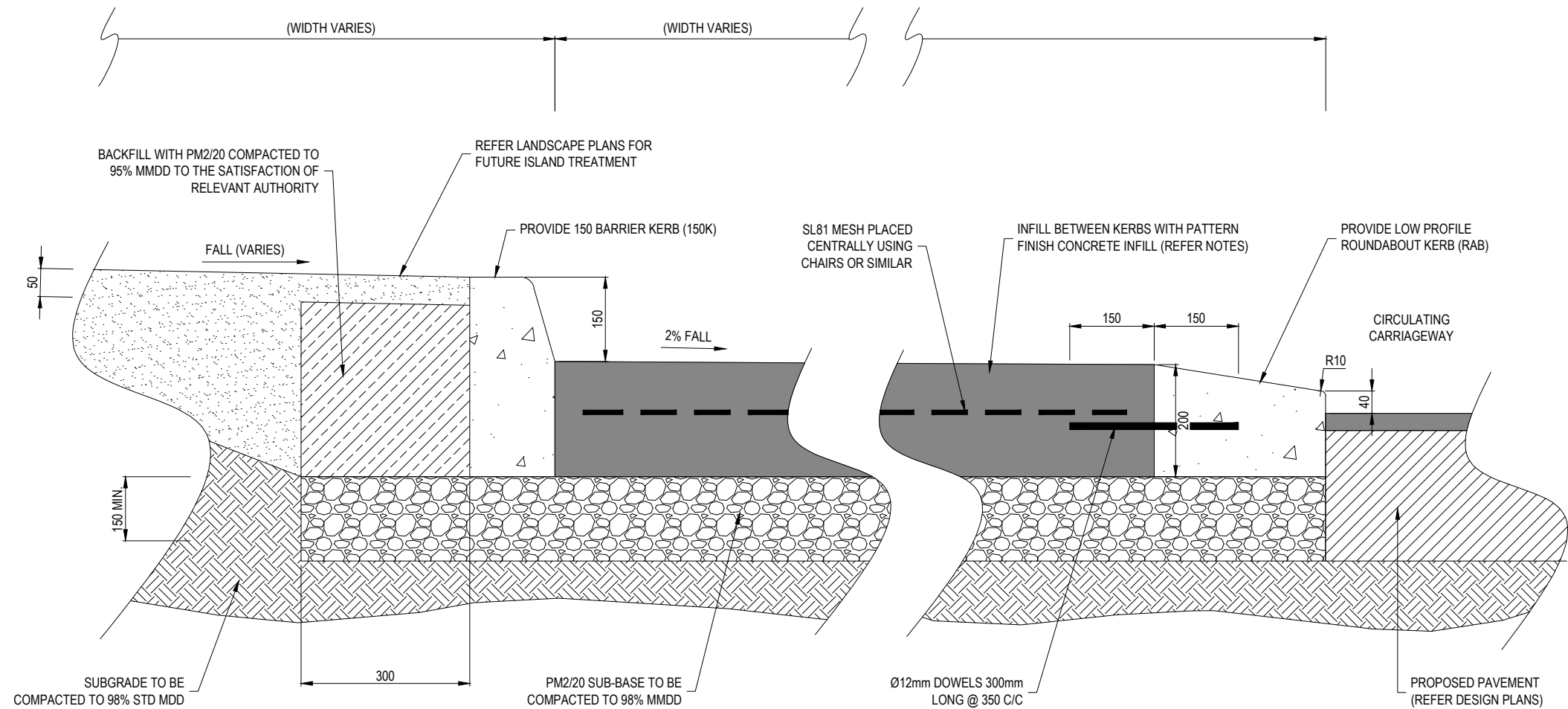
1. LOCATION AND DEPTH OF ANY UNDERGROUND SERVICES WITHIN FOOTWAY AREA MUST BE ESTABLISHED BEFORE COMMENCEMENT OF EXCAVATION.
2. UNDERTAKE A 'DIAL BEFORE YOU DIG' SEARCH (PH: 1100) TO LOCATE SERVICES PRIOR TO COMMENCING EXCAVATION.
3. TRANSITION AREA TO CONFORM TO AS2890.1 (2004) FIGURE 2.10. ANY CHANGES OF GRADE GREATER THAN 12.5% TO BE CHECKED USING THE TEMPLATE IN APPENDIX C AS2890.1
4. MAXIMUM TRANSITION OF 12.5% OVER 2m.



ALL MEASUREMENTS IN MILLIMETRES

PROJECTS LEADS PROJECTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE VEHICLE CROSSING LONGITUDINAL SECTIONS			
	A				19/12/04	ISSUED FOR REVIEW									
	B				02/04/25	CLIENT SUBMISSION									
								FOR INFORMATION		 <div>Government of South Australia Department for Housing and Urban Development</div>	DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479	DRAWING No. DH-RD-2045	MILESTONE	REVISION B

- NOTES:
1. INSTALLATION OF ROUNDABOUT KERBING SHALL BE IN ACCORDANCE WITH AS 1742, AS 3876 AUSTRROADS 'GUIDE TO TRAFFIC MANAGEMENT' AND 'GUIDE TO ROAD DESIGN'.
 2. REFER TO THE DESIGN PLANS FOR ROUNDABOUT KERB LOCATION, SIZE & SETOUT DATA.
 3. ROUNDABOUT KERB FACES SHALL BE PAINTED REFLECTORISED WHITE AS REQUIRED.
 4. ALL NIGHT ROAD LIGHTING SHALL BE IN ACCORDANCE WITH AS 1158.
 5. ROUNDABOUT KERBING SHALL BE DELINEATED WITH AN OUTLINE MARKING SEPARATED FROM THE KERB BY 100mm.
 6. PATTERN FINISH CONCRETE INFILL COLOUR & TYPE TO BE ADVISED BY RELEVANT AUTHORITY. INFILL CONCRETE TO BE 32MPa UNLESS NOTED OTHERWISE.
 7. CONCRETE STRENGTH TO BE 32MPa, 200mm THICKNESS.



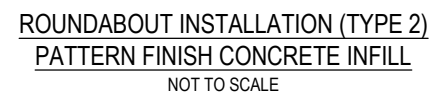
ROUNDABOUT INSTALLATION (TYPE 1)
MOUNTABLE ISLAND & LANDSCAPED CENTER ISLAND
NOT TO SCALE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL


ALL MEASUREMENTS IN MILLIMETRES

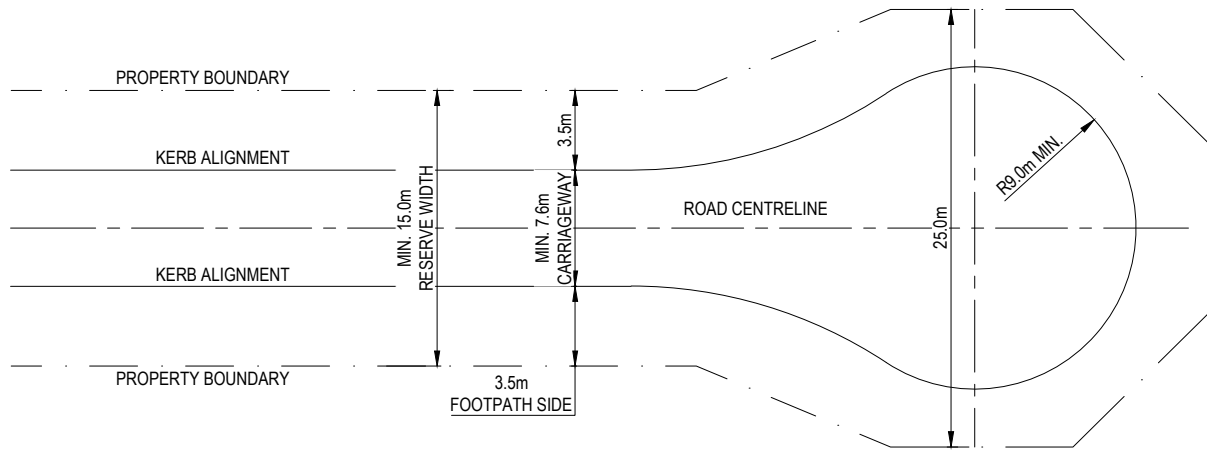
AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE ROUNDOABOUT INSTALLATION TYPE 1				
	A				19/12/24	ISSUED FOR REVIEW									
	B				20/12/24	ISSUED FOR REVIEW									
	C				02/04/25	CLIENT SUBMISSION									
FOR INFORMATION															

1. INSTALLATION OF ROUNDABOUT KERBING SHALL BE IN ACCORDANCE WITH AS 1742, AS 2876 AUSTRROADS 'GUIDE TO TRAFFIC MANAGEMENT' AND 'GUIDE TO ROAD DESIGN'.
2. REFER TO THE DESIGN PLANS FOR ROUNDABOUT KERB LOCATION, SIZE & SETOUT DATA.
3. ROUNDABOUT KERB FACES SHALL BE PAINTED REFLECTORISED WHITE AS REQUIRED BY THE 'PAVEMENT MARKING MANUAL'.
4. ALL NIGHT ROAD LIGHTING SHALL BE IN ACCORDANCE WITH AS 1158.
5. ROUNDABOUT KERBING SHALL BE DELINEATED WITH AN OUTLINE MARKING SEPARATED FROM THE KERB BY 100mm.
6. PATTERN FINISH CONCRETE INFILL COLOUR & TYPE TO BE ADVISED BY RELEVANT AUTHORITY. INFILL CONCRETE TO BE 32MPa UNLESS NOTED OTHERWISE.



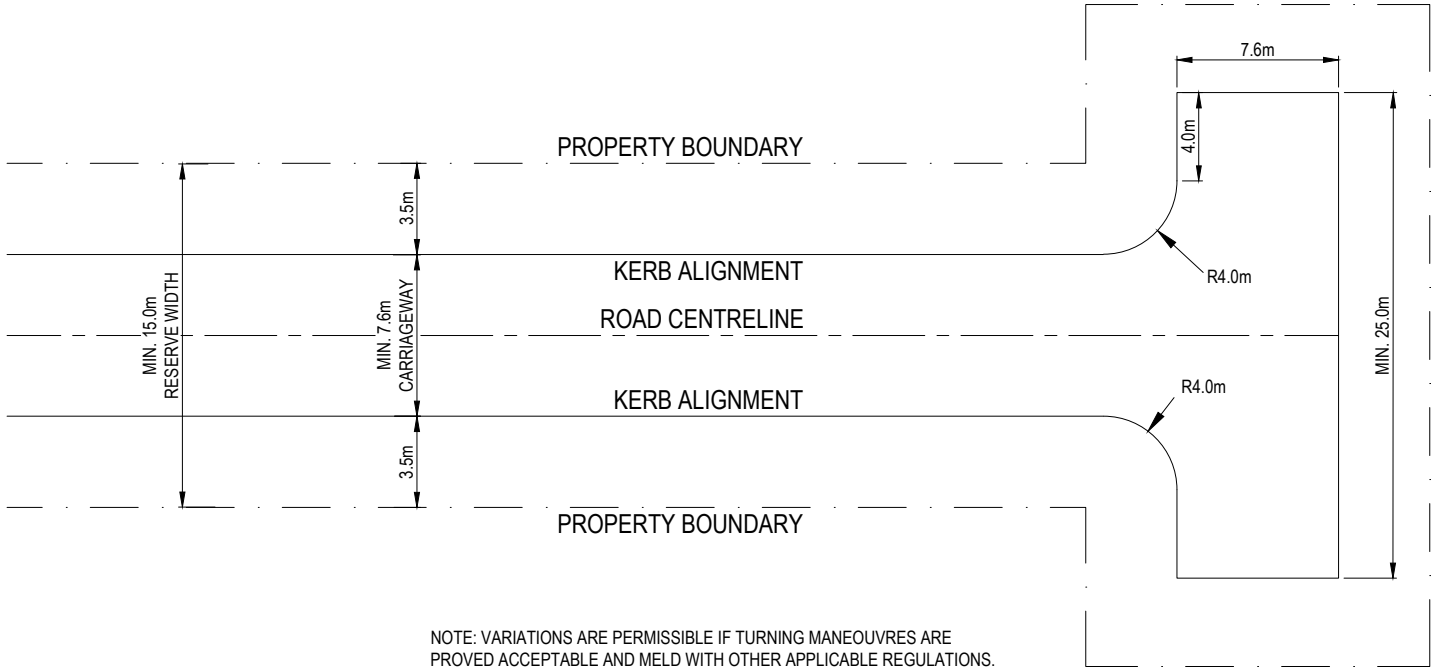
ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE A M B C D E F G H I J K L M N O P Q R S T U V W X Y Z AA AB AC AD AE AF AG AH AI AJ AK AL AM AN AO AP AQ AR AS AT AU AV AW AX AY AZ BA BB BC BD BE BF BG BH BI BJ BK BL BM BN BO BP BQ BR BS BT BU BV BW BX BY BZ CA CB CC CD CE CF CG CH CI CJ CK CL CM CN CO CP CQ CR CS CT CU CV CW CX CY CZ DA DB DC DD DE DF DG DH DI DJ DK DL DM DN DO DP DQ DR DS DT DU DV DW DX DY DZ EA EB EC ED EE EF EG EH EI EJ EK EL EM EN EO EP EQ ER ES ET EU EV EW EX EY EZ FA FB FC FD FE FF FG FH FI FJ FK FL FM FN FO FP FQ FR FS FT FU FV FW FX FY FZ GA GB GC GD GE GF GG GH GI GJ GK GL GM GN GO GP GQ GR GS GT GU GV GW GX GY GZ HA HB HC HD HE HF HG HH HI HJ HK HL HM HN HO HP HQ HR HS HT HU HV HW HX HY HZ IA IB IC ID IE IF IG IH II IJ IK IL IM IN IO IP IQ IR IS IT IU IV IW IX IY IZ JA JB JC JD JE JF JG JH JI JJ JK JL JM JN JO JP JQ JR JS JT JU JV JW JX JY JZ KA KB KC KD KE KF KG KH KI KJ KK KL KM KN KO KP KQ KR KS KT KU KV KW KX KY KZ LA LB LC LD LE LF LG LH LI LJ LK LL LM LN LO LP LQ LR LS LT LU LV LW LX LY LZ MA MB MC MD ME MF MG MH MI MJ MK ML MN MO MP MQ MR MS MT MU MV MW MX MY MZ NA NB NC ND NE NF NG NH NI NJ NK NL NM NO NP NQ NR NS NT NU NV NW NX NY NZ OA OB OC OD OE OF OG OH OI OJ OK OL OM ON OO OP OQ OR OS OT OU OV OW OX OY OZ PA PB PC PD PE PF PG PH PI PJ PK PL PM PN PO PP PQ PR PS PT PU PV PW PX PY PZ QA QB QC QD QE QF QG QH QI QJ QK QL QM QN QO QP QQ QR QS QT QU QV QW QX QY QZ RA RB RC RD RE RF RG RH RI RJ RK RL RM RN RO RP RQ RR RS RT RU RV RW RX RY RZ SA SB SC SD SE SF SG SH SI SJ SK SL SM SN SO SP SQ SR SS ST SU SV SW SX SY SZ TA TB TC TD TE TF TG TH TI TJ TK TL TM TN TO TP TQ TR TS TT TU TV TW TX TY TZ UA UB UC UD UE UF UG UH UI UJ UK UL UM UN UO UP UQ UR US UT UU UV UW UX UY UZ VA VB VC VD VE VF VG VH VI VJ VK VL VM VN VO VP VQ VR VS VT VU VV VW VX VY VZ WA WB WC WD WE WF WG WH WI WJ WK WL WM WN WO WP WQ WR WS WT WU WV WW WX WY WZ XA XB XC XD XE XF XG XH XI XJ XK XL XM XN XO XP XQ XR XS XT XU XV XW XX XY XZ YA YB YC YD YE YF YG YH YI YJ YK YL YM YN YO YP YQ YR YS YT YU YV YW YX YY YZ ZA ZB ZC ZD ZE ZF ZG ZH ZI ZJ ZK ZL ZM ZN ZO ZP ZQ ZR ZS ZT ZU ZV ZW ZX ZY ZZ	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT	BROWSING TITLE	
						19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	ROUNDABOUT INSTALLATION TYPE 2
					20/12/24	ISSUED FOR REVIEW						
					02/04/25	CLIENT SUBMISSION						
											DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. DRAWING No. MILESTONE REVISION 24-000479 DH-RD-2055 C



NOTE: VARIATIONS ARE PERMISSIBLE IF TURNING MANOEUVRES ARE PROVED ACCEPTABLE AND MELD WITH OTHER APPLICABLE REGULATIONS.

TYPICAL: CUL-DE-SAC HEAD LAYOUT
NOT TO SCALE



NOTE: VARIATIONS ARE PERMISSIBLE IF TURNING MANOEUVRES ARE PROVED ACCEPTABLE AND MELD WITH OTHER APPLICABLE REGULATIONS.

TYPICAL : T HEAD LAYOUT
NOT TO SCALE

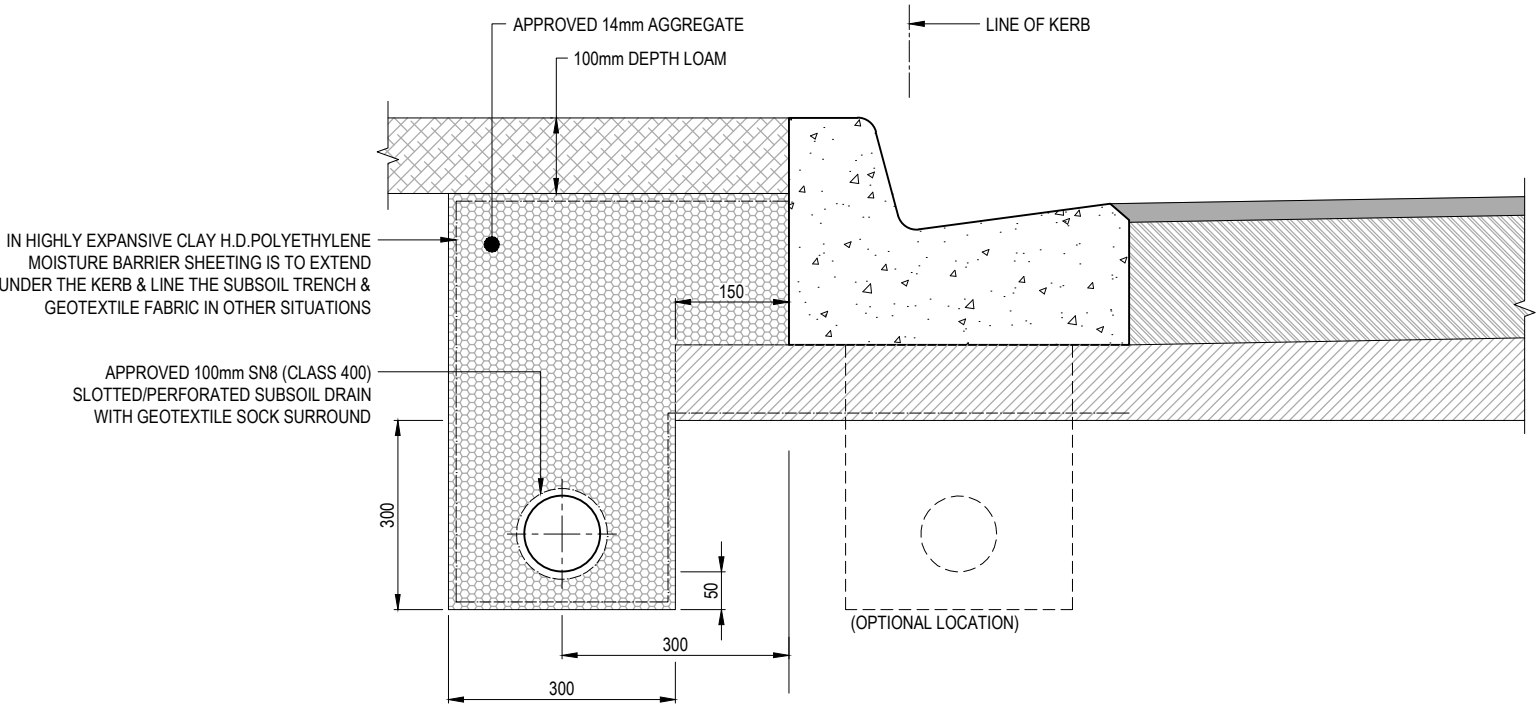
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\81924\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\TURNS\RD-2060.DWG LAST SAVED BY: JO KERR PLOTTED: 3-May-25

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE: AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE TERMINATION ROAD TURNAROUND PROVISIONS
AMENDMENTS	A				19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	PROJECT No. 24-000479 DRAWING No. DH-RD-2060 MILESTONE REVISION C
	B				02/04/25	CLIENT SUBMISSION					
	C				09/05/25	CLIENT SUBMISSION					

- NOTES:
- THE DRAINS SHALL BE LAID ON A GRADE PARALLEL TO THE FINISHED SURFACE.
 - FOR FLUSHOUT RISER DETAILS REFER TO STANDARD DRAWINGS DH-SW-3065.
 - WHERE THE SUBGRADE IS CLASSIFIED AS BEING EXPANSIVE, SUBSURFACE PAVEMENT DRAINS SHALL BE DESIGNED TO BE CONTAINED WHOLLY WITHIN THE CAPPING LAYER. IN ADDITION, NO PART OF THE SUBSURFACE DRAINAGE TRENCH SHALL BE LOCATED WITHIN 150mm OF THE UNDERLYING SUBGRADE. IF NECESSARY, THE CAPPING LAYER MAY HAVE TO BE THICKENED TO SATISFY THIS REQUIREMENT.



TYPICAL SECTION
NOT TO SCALE

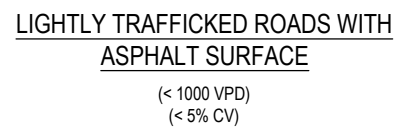
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\91024\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\RD-2065.DWG LAST SAVED BY: JO KERR PLOTTED: 3-May-25

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE TYPICAL PAVEMENT SUBSOIL DRAINAGE	
	A					19/12/24	ISSUED FOR REVIEW						
	B					02/04/25	CLIENT SUBMISSION	FOR INFORMATION					
								DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	Government of South Australia Department for Housing and Urban Development				

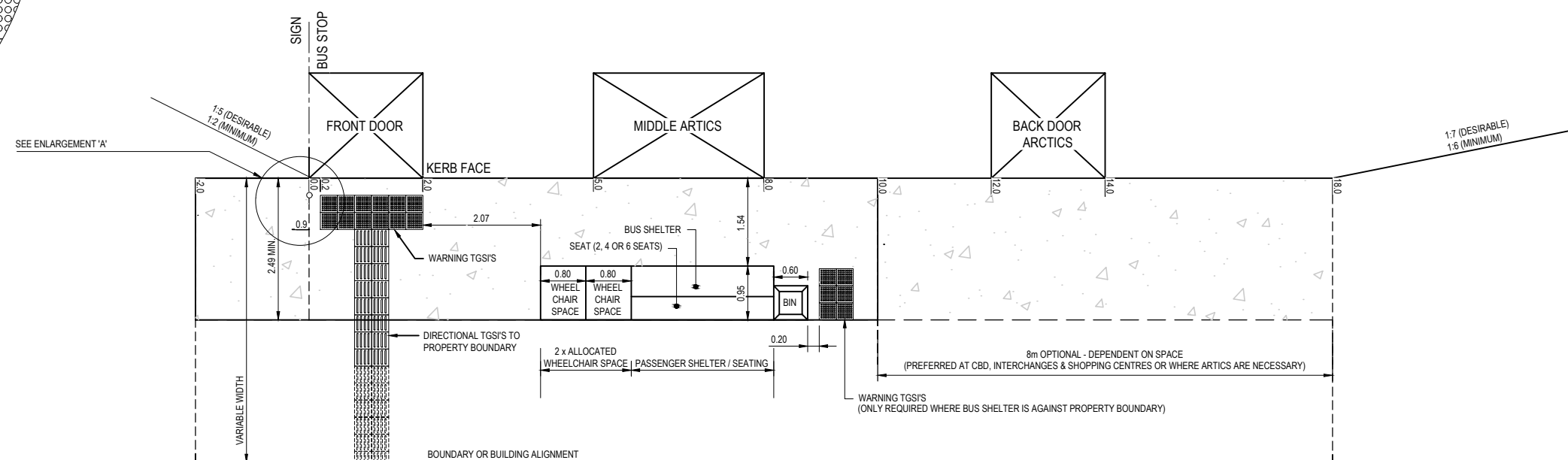
1. ROADS WITH TRAFFIC VOLUMES OR CV EXCEEDING THOSE SHOWN, REFER TO DIT PAVEMENT REINSTATEMENT CONFIGURATIONS.
2. THE MINIMUM PAVEMENT THICKNESS OF THE REINSTATED PAVEMENT LAYERS SHALL BE AS DETAILED OR SHALL MATCH THE EXISTING PAVEMENT LAYERS. WHICHEVER IS GREATER.
3. EXCAVATED MATERIAL SHALL NOT BE REUSED IN THE REINSTATEMENT OF THE TRENCHES AND SHALL BE REMOVED OFFSITE.
4. ALL LINE MARKING, PAVEMENT MARKING AND ROAD FURNITURE SHALL BE REINSTATED TO MATCH EXISTING.
5. THE FINISHED SERVICE LEVEL OF ALL SERVICE COVERS SHALL BE FLUSH WITH THE FINISHED SURFACE OF THE REINSTATED PAVEMENT.
6. NEW ASPHALT TO BE HEATED AND BLENDED INTO THE EXISTING ASPHALT SEAL.



ALL MEASUREMENTS IN MILLIMETRES



FILE: S:\CAL\05_PROJECTS\SYD\24\24-000479 - GROWTH AREA ENGINEERING STANDARDS\06_MODEL\AUTOCAD\CIVIL\DH-RD-2070.DWG LAST SAVED BY: JO KERR PLOTTED: 9-May-25

1. MINIMUM FOOTPATH WIDTH SHOWN AS 4m (TOTAL) WITH SHELTER.
MINIMUM FOOTPATH WIDTH WITHOUT SHELTER REDUCED TO 2.5m.

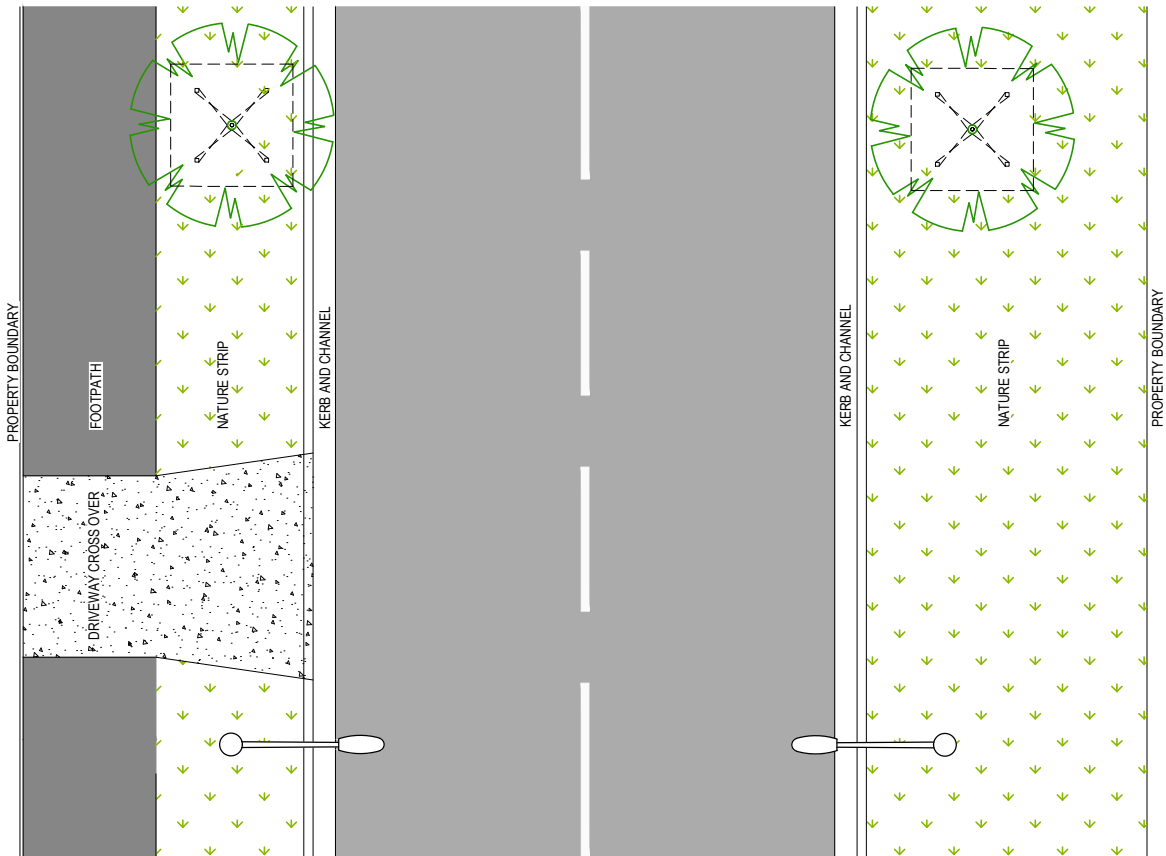


TYPICAL BUS STOP LAYOUT
SCALE 1:50

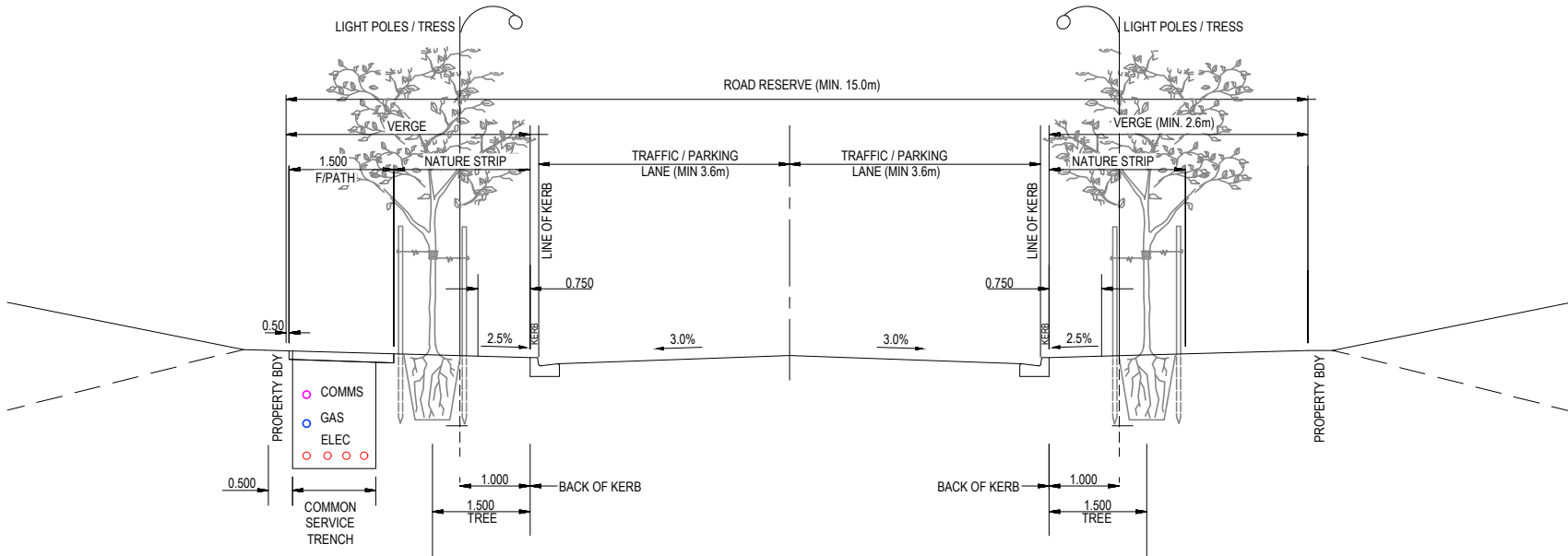
ALL MEASUREMENTS IN MILLIMETRES

	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS	SCALE AS SHOWN	CLIENT	PROJECT	DRAWING TITLE			
A					19/12/24	ISSUED FOR REVIEW		FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	TYPICAL BUS STOP DETAIL			
M					02/04/25	CLIENT SUBMISSION									
E															
N															
D															
M															
S															
											DISCLAIMER				
											ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY; DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	PROJECT No. 24-000479	DRAWING No. DH-RD-2075	MILESTONE	REVISION B

FILE: S:\CAUS PROJECTS\9124\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\PLH-RD-3000.DWG LAST SAVED BY A RDY PLOTTED 3-May-25



PLAN - ACCESS STREET
NOT TO SCALE



TYPICAL CROSS SECTION - ACCESS STREET
NOT TO SCALE

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					19/12/24	ISSUED FOR REVIEW
B					02/04/25	CLIENT SUBMISSION
C					04/04/25	CLIENT SUBMISSION

STATUS
FOR INFORMATION

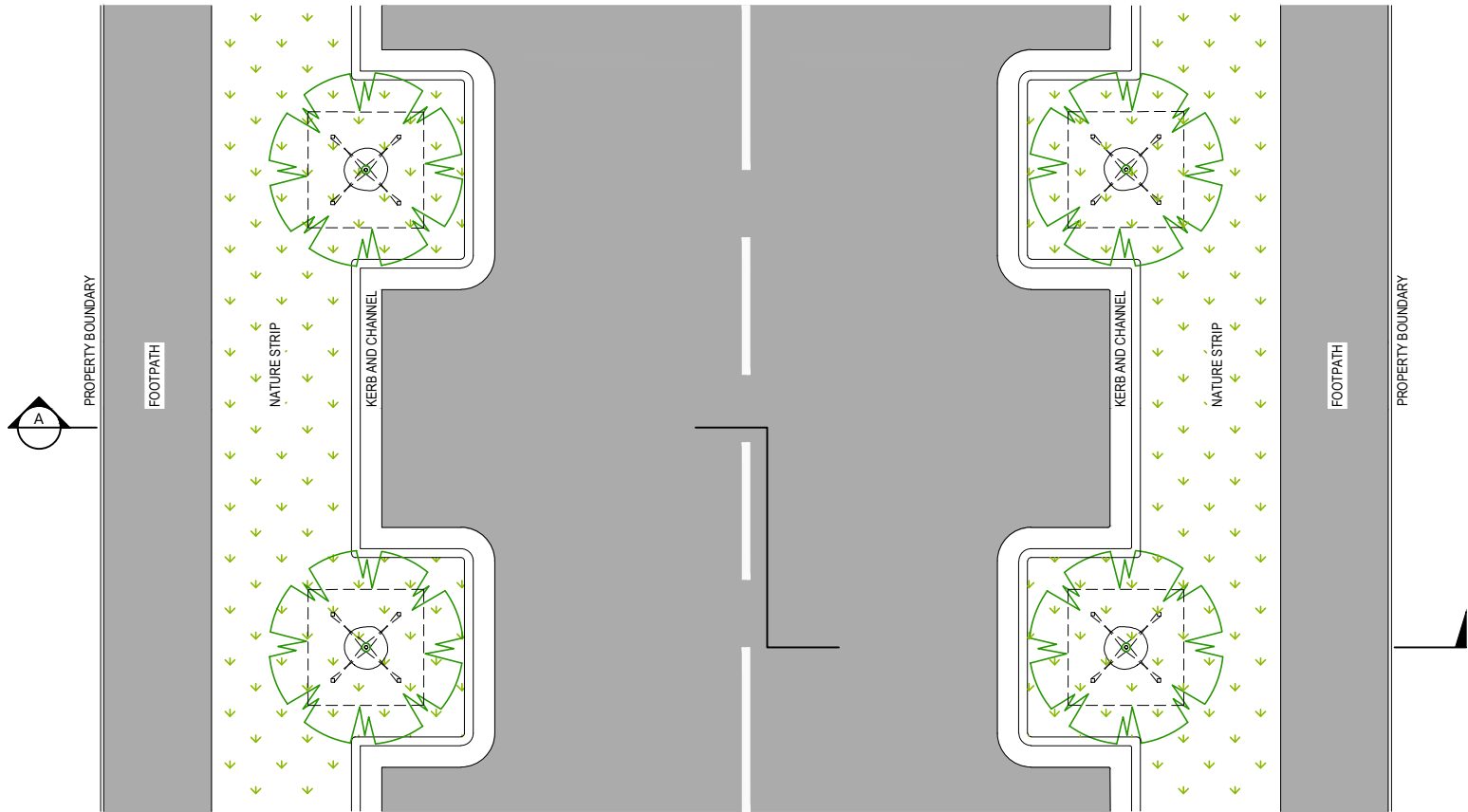
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SCALE 1:50 (A1) SCALE 1:100 (A3)

CLIENT
 Government of South Australia Department for Housing and Urban Development

PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

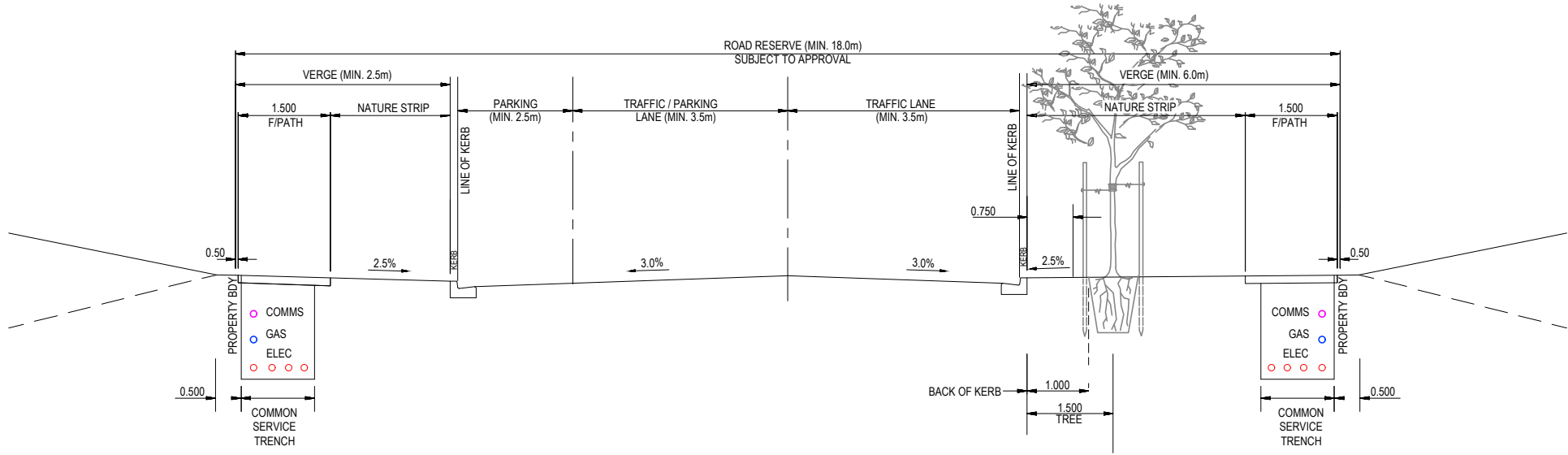
DRAWING TITLE			
TYPICAL ROAD CROSS SECTION AND PLAN ACCESS STREET			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-RD-3000		C

FILE: S:\CAUS PROJECTS\91024\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\RD-3002.DWG LAST SAVED BY: JO KERR PLOTTED: 9-May-25



PLAN - LEVEL 1 COLLECTOR/CONNECTOR STREET
WITH INDENTED PARKING BAY
NOT TO SCALE

- NOTES:
1. THE LOCATIONS OF TREES AND STREETLIGHT POLES SHOWN ARE FOR REFERENCE ONLY AND REQUIRE A SPECIFIC DESIGN FOR EACH SITE.
 2. THE ROAD MARKINGS SHOWN ARE FOR REFERENCE ONLY AND REQUIRE A SPECIFIC DESIGN FOR EACH SITE.

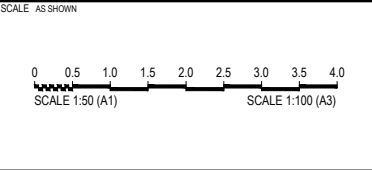


TYPICAL CROSS SECTION A - LEVEL 1 COLLECTOR/CONNECTOR
STREET WITH INDENTED PARKING
NOT TO SCALE

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					09/05/25	CLIENT SUBMISSION

STATUS
FOR INFORMATION

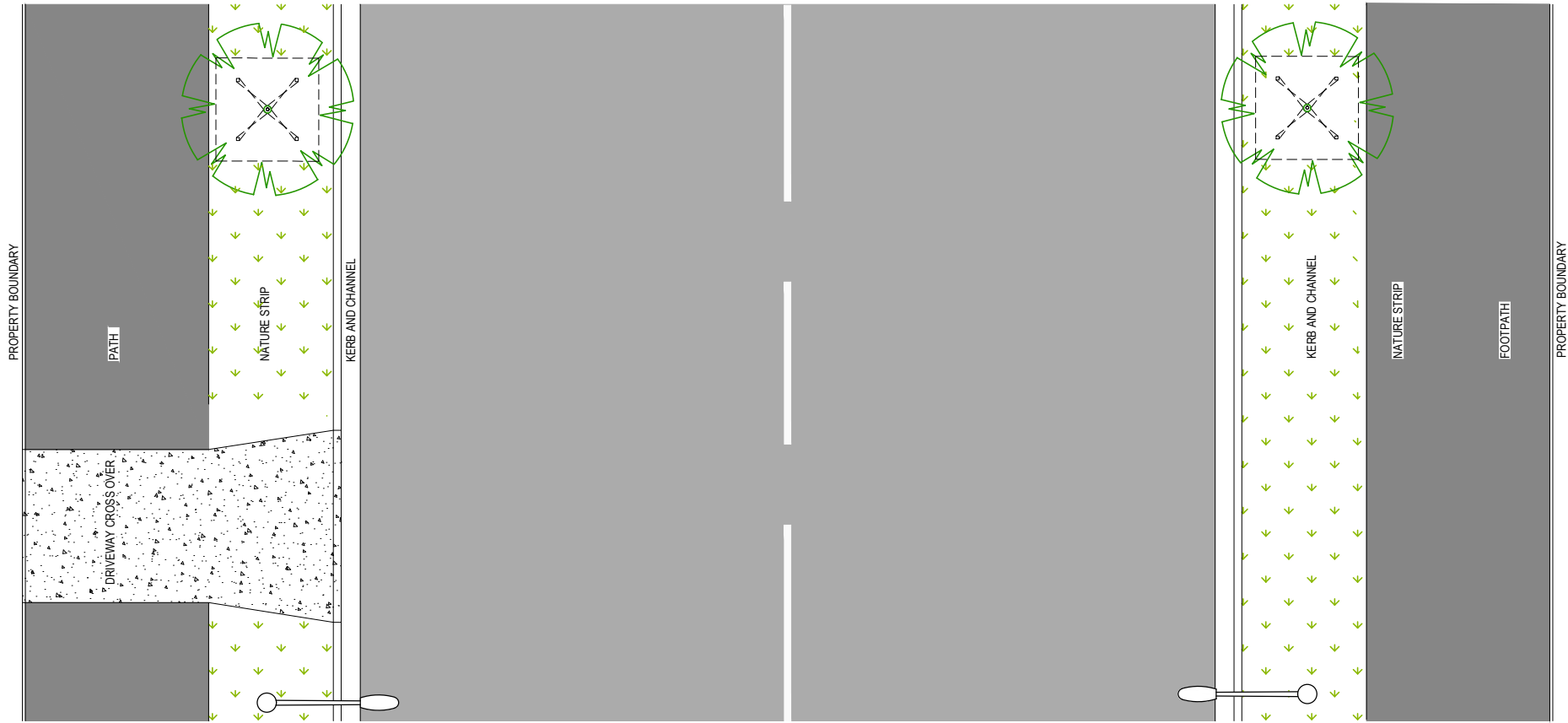


PROJECT
SOUTH AUSTRALIA GROWTH AREAS
ENGINEERING STANDARDS

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

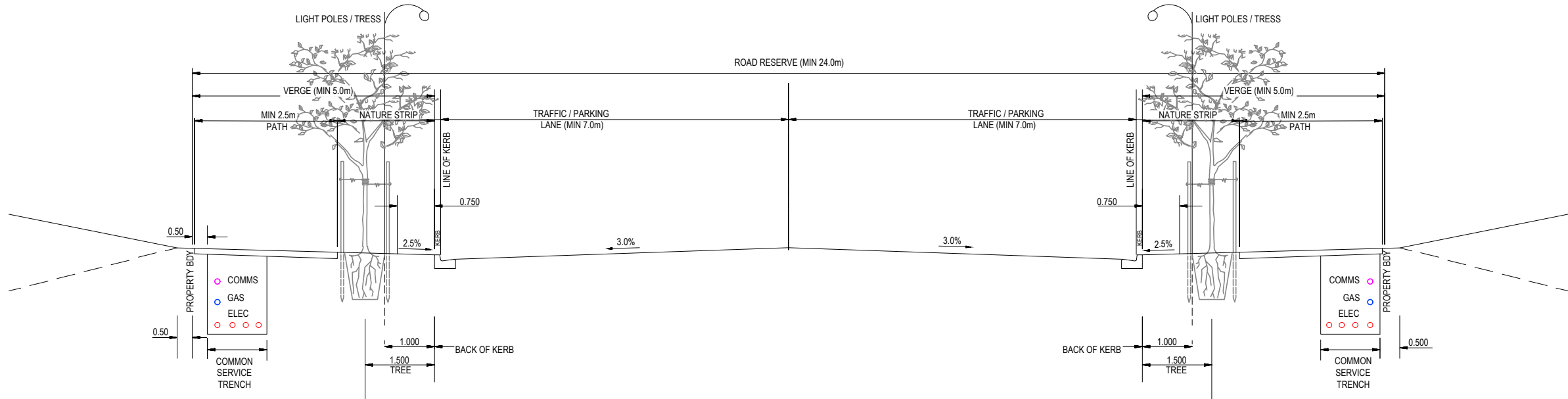
DRAWING TITLE	PROJECT No.	DRAWING No.	MILESTONE	REVISION
TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 1 COLLECTOR/CONNECTOR STREET (WITH INDENTED CARPARK)	24-000479	DH-RD-3002		A

FILE: S:\CAUS PROJECTS\9124\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\RD-3005.DWG LAST SAVED BY: JO KERR PLOTTED: 3-May-25



- NOTES:**
1. THE LOCATIONS OF TREES AND STREETLIGHT POLES SHOWN ARE FOR REFERENCE ONLY AND REQUIRE A SPECIFIC DESIGN FOR EACH SITE.
 2. THE ROAD MARKINGS SHOWN ARE FOR REFERENCE ONLY AND REQUIRE A SPECIFIC DESIGN FOR EACH SITE.

**PLAN - LEVEL 2 COLLECTOR ROAD
(OFF-ROAD CYCLEWAY)**
NOT TO SCALE

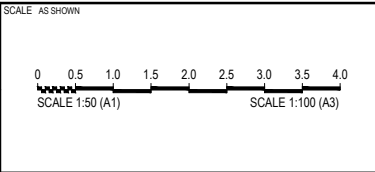


**TYPICAL CROSS SECTION - LEVEL 2 COLLECTOR/CONNECTOR STREET
(OFF-ROAD CYCLEWAY)**
NOT TO SCALE

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					19/12/24	ISSUED FOR REVIEW
B					02/04/25	CLIENT SUBMISSION
C					04/04/25	CLIENT SUBMISSION
D					09/05/25	CLIENT SUBMISSION

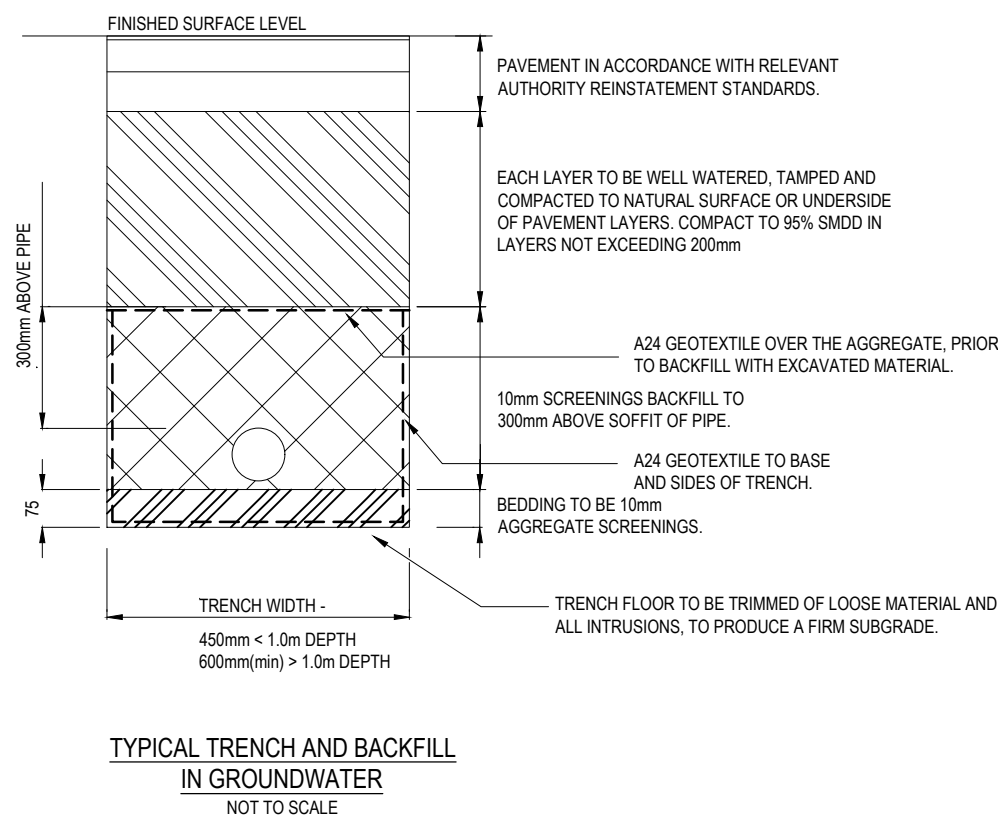
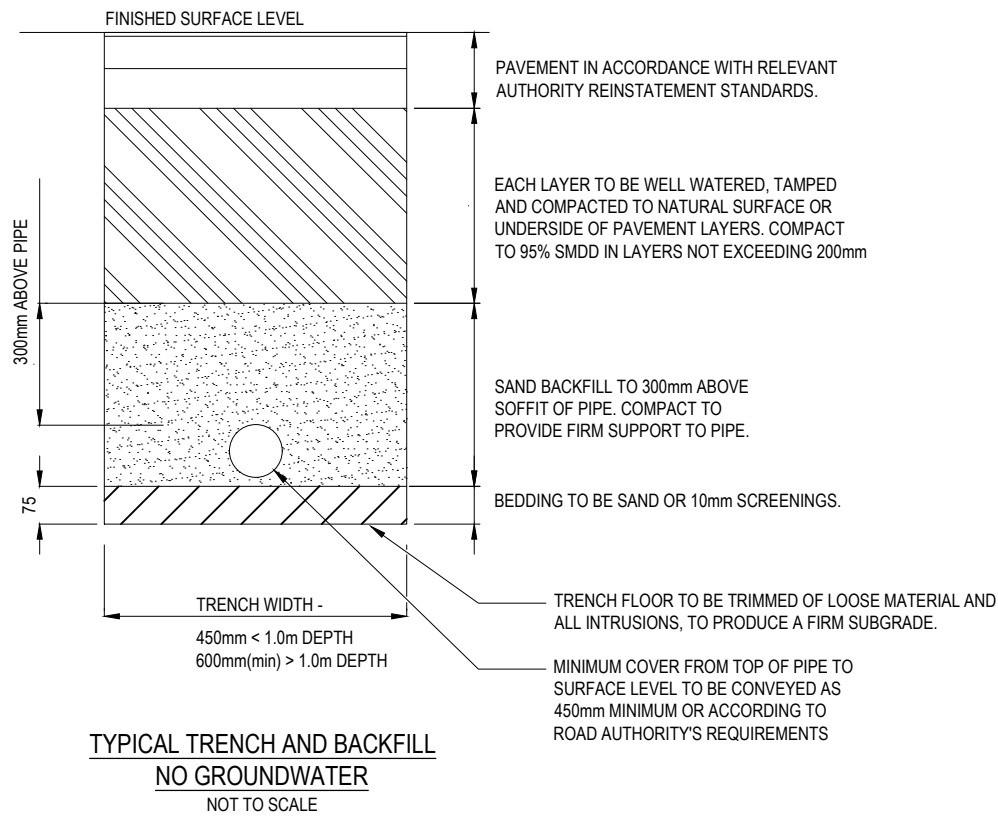
STATUS
FOR INFORMATION



PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE
TYPICAL ROAD CROSS SECTION AND PLAN LEVEL 2 COLLECTOR ROAD (OFF-ROAD CYCLEWAY)
PROJECT No.
24-000479
DRAWING No.
DH-RD-3005
MILESTONE
REVISION
D

- NOTES:
- PIPES TO BE LOCATED CENTRALLY IN TRENCH.
 - TRENCH BASE TO BE FIRM AND TO HAVE CONSTANT GRADE.
 - UNEVEN TRENCHES ARE NOT ACCEPTABLE.
 - DEWATER TRENCH DURING CONSTRUCTION.

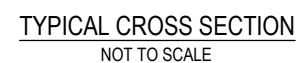


THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\91024\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\RD-3015.DWG LAST SAVED BY: JO KERR PLOTTED: 9-May-25

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE: AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE TRENCH AND BACKFILL DETAILS - CWMS				
	A					19/12/24	ISSUED FOR REVIEW									
	B					20/12/24	ISSUED FOR REVIEW									
	C					02/04/25	CLIENT SUBMISSION									
FOR INFORMATION																
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY																
											PROJECT No. 24-000479		DRAWING No. DH-RD-3015		MILESTONE C	

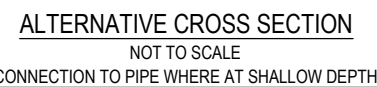
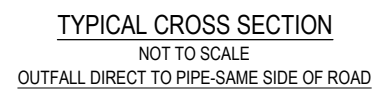
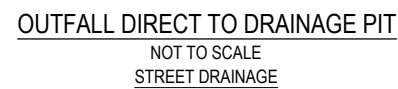
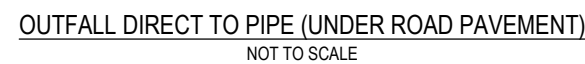


ALL MEASUREMENTS IN MILLIMETRES

FOR INFORMATION

Government of South Australia
Department for Housing
and Urban Development

PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-SW-3050		C

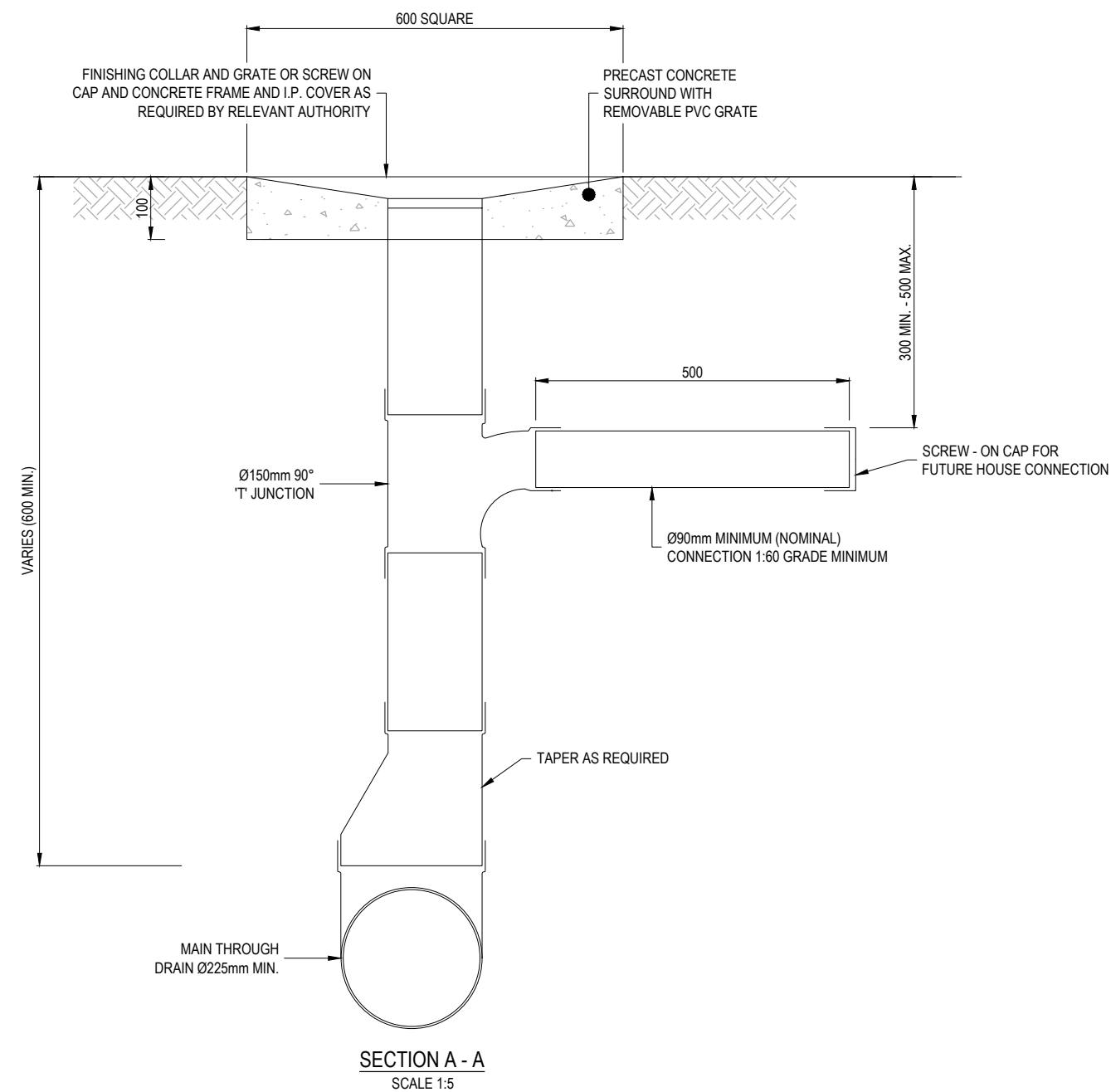


- ALL MEASUREMENTS IN MILLIMETRES



Y CONTRACTOR ENSIONS ONLY, DO SS STAMPED BY	PROJECT No. 24-000479	DRAWING No. DH-SW-3055	MILESTONE	REVISION C
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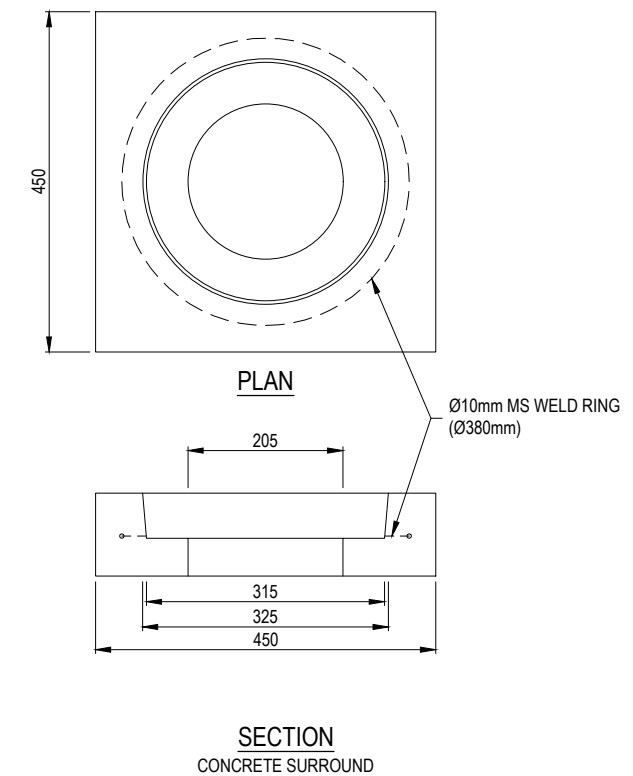
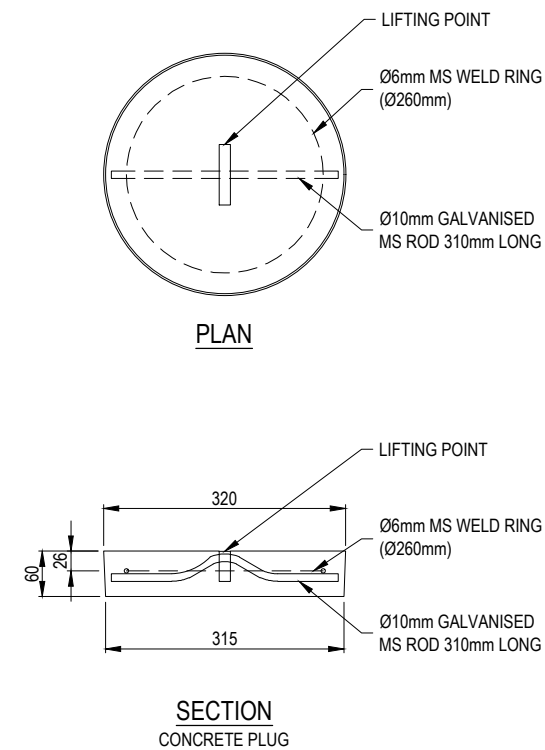
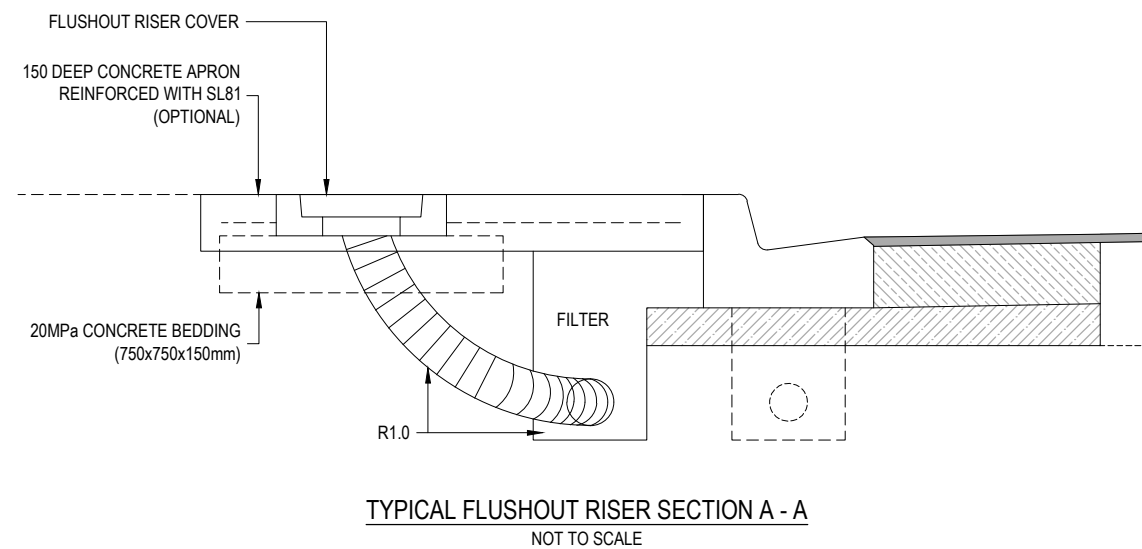
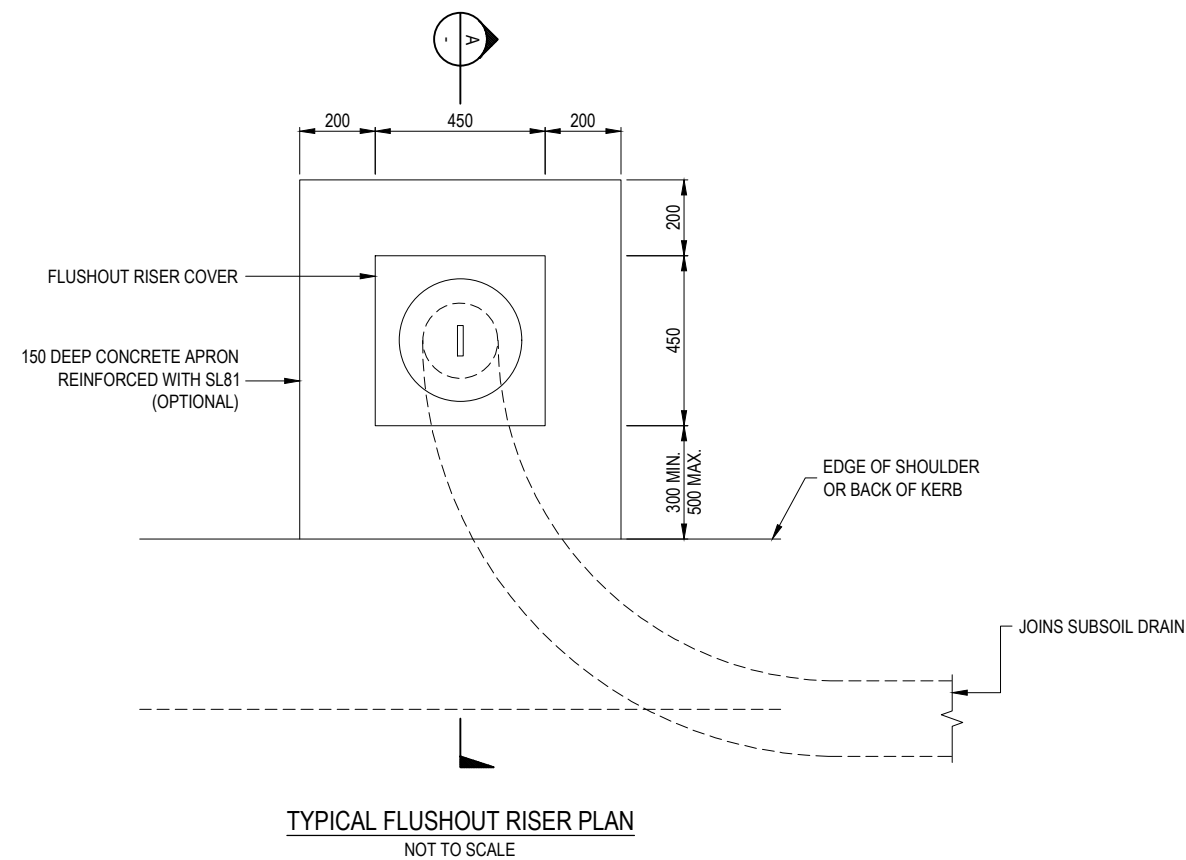
[illegible]

1. MINIMUM COVER TO PIPES TO BE 300mm.
2. ALL STORMWATER PIPES TO BE PVC SN8 (Ø150mm)
SN6 (Ø100mm).




ALL MEASUREMENTS IN MILLIMETRES

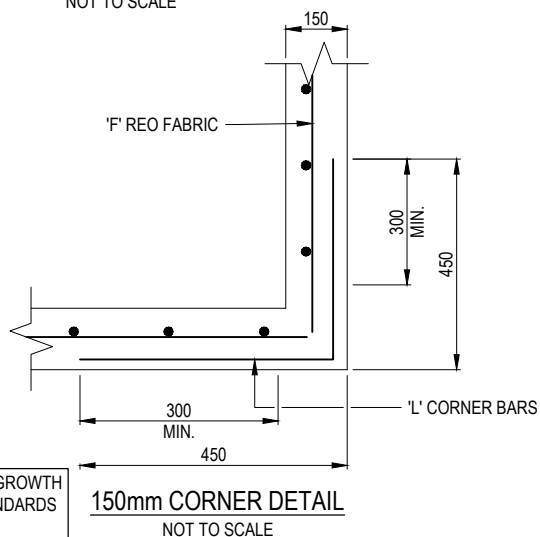
FIRST ISSUE A M E N D M E N T S 	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS 19/12/24 ISSUED FOR REVIEW 20/12/24 ISSUED FOR REVIEW 02/04/25 CLIENT SUBMISSION	STATUS FOR INFORMATION	SCALE AS SHOWN 	CLIENT 	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE STORMWATER ALLOTMENT CONNECTION IN EASEMENT DETAIL PROJECT No. 24-000479 DRAWING No. DH-SW-3060 MILESTONE REVISION C



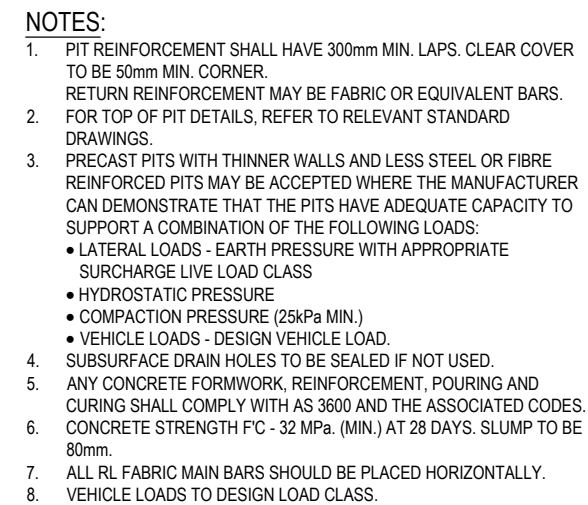
THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FIRST A M B E D N E S	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS FOR INFORMATION	SCALE AS SHOWN	CLIENT  <div>Government of South Australia Department for Housing and Urban Development</div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. UNLESS WRITTEN OTHERWISE, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE SUBSOIL DRAINAGE FLUSHOUT RISER DETAIL			
					19/12/24	ISSUED FOR REVIEW									
					02/04/25	CLIENT SUBMISSION									
											PROJECT No.	DRAWING No.	MILESTONE	REVISION	
											24-000479	DH-SW-3065		B	




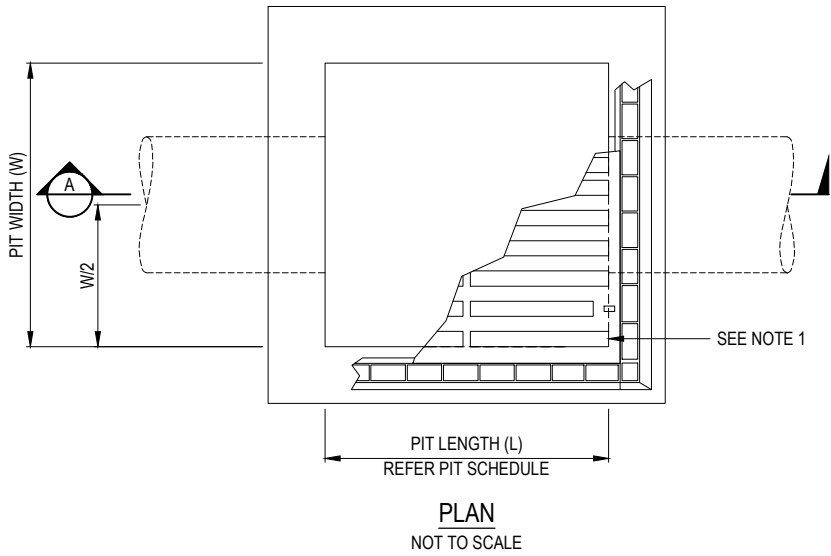
FOR INFORMATION



REINFORCEMENT DETAILS					
LOAD CLASS	MAX WIDTH (W) (mm)	'F' FABRIC	'H' HORIZONTAL BARS	'V' VERTICAL BARS	'L' CORNER BARS
B	600	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
B	900	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
B	1200	SL92 (c)	2/N12	1/N12	N10 @ 200 (c)
B	1500	SL92 (50 INTERNAL COVER)	2/N12	1/N16	N10 @ 200 (c) (50 INTERNAL COVER)
B	1800	SL92 (50 INTERNAL COVER)	2/N16	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)
D	600	SL82 (c)	2/N10	1/N10	N10 @ 300 (c)
D	900	SL92 (50 INTERNAL COVER)	2/N10	1/N10	N10 @ 200 (c) (50 INTERNAL COVER)
D	1200	RL818 (50 INTERNAL COVER)	2/N12	1/N12	N12 @ 200 (c) (50 INTERNAL COVER)
D	1500	RL1018 (50 INTERNAL COVER)	2/N12	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)
D	1800	RL1218 (50 INTERNAL COVER)	2/N16	1/N16	N12 @ 200 (c) (50 INTERNAL COVER)

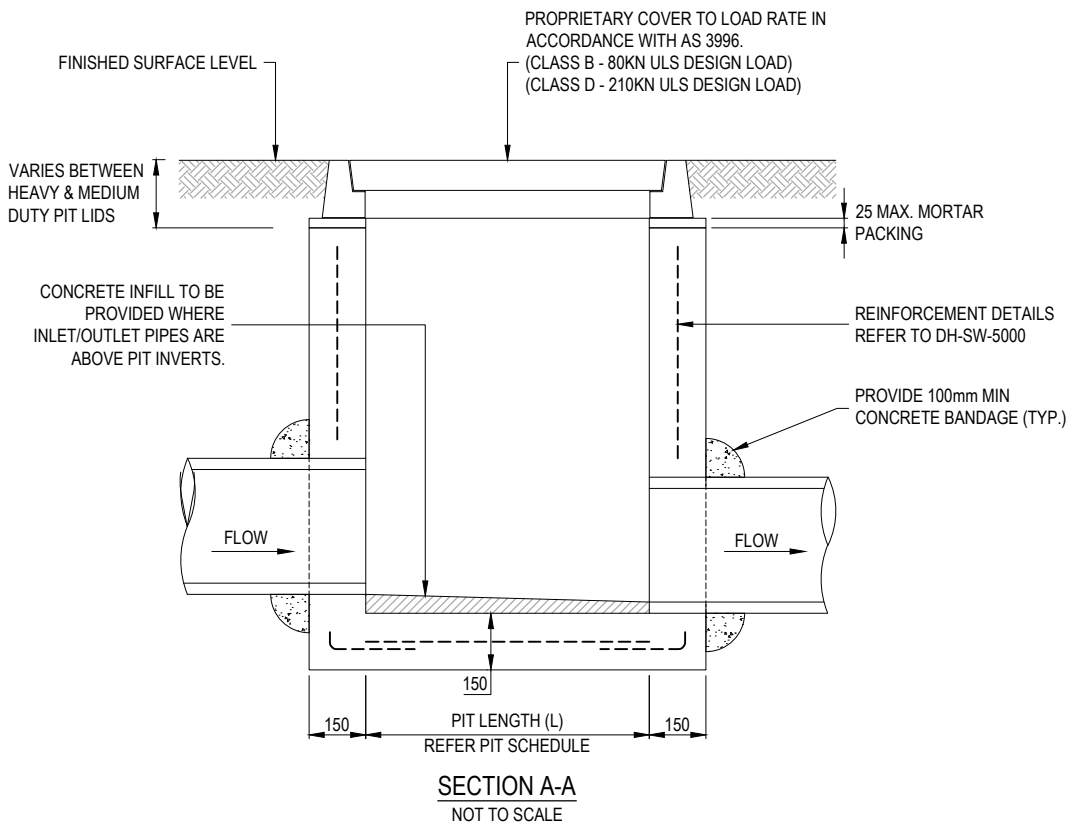
ALL MEASUREMENTS IN MILLIMETRES

	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE STORMWATER PITS REINFORCEMENT DETAILS
FIRST ISSUE	A				19/7/2024	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479 DRAWING No. DH-SW-5000 MILESTONE B REVISION
AMENDMENTS	B			02/04/25	CLIENT SUBMISSION						



- ## NOTES:
1. HEAVY DUTY COVERS TO BE USED WHEN SUBJECT TO TRAFFICABLE LOADS (AS3996 CLASS D - 210kN) OR APPROVED EQUIVALENT. MEDIUM DUTY COVERS TO BE USED IN OFF ROAD USE (AS3996 CLASS B - 80kN) OR APPROVED EQUIVALENT.
 2. CONCRETE PIT STREAMLINING TO BE PROVIDED WHERE SHOWN ON DRAWINGS.
 3. INTERNAL PIT DIMENSIONS SHALL ALLOW FOR THE PIPE OUTER DIAMETER AT CUT ANGLE PLUS CONSTRUCTION TOLERANCE PLUS 50mm EACH SIDE.
 4. MINIMUM PIT LID OPENING SIZE TO BE 600mm DIAMETER FOR ALL PITS GREATER THAN 600mm DEPTH.
 5. ALL GRATED COVERS TO BE HOT DIP GALVANISED FOR INSTALLATIONS IN NON-TRAFFICKED AREAS.
 6. ROUND PIT LIDS PREFERRED TO REDUCE RISK OF FALL INTO THE PITS.
 7. REINFORCED PITS CAN BE USED FOR STANDARD SIZES.
 8. HEAVY DUTY COVER (ALL JBS) - 600mm (MIN. SIZE) HEAVY DUTY CAST IRON NON-ROTATING COVER BY 'BIAVO' OR SIMILAR APPROVED BOLTED TO COVER SLAB. LID TO HAVE CAST IRON LIFTING SOCKET.
 9. GRATED INLET PIT COVER HEAVY DUTY GALVANISED GRATE AND FRAME WITH 600x 600mm CLEAR OPENING. HEELSAFE IN PEDESTRIAN AREAS.
 10. COVER SLAB 'BIAVO' OR SIMILAR APPROVED 32MPa, SL82 REINFORCEMENT.
 11. MINIMUM SIZE 900x900mm IN COUNCIL ROAD RESERVE.
 12. GROUT BETWEEN LID AND COVER TO BE SPECIFIED ON DRAWING. GROUT TO CONSIST OF 2 PARTS SAND, 1 PART CEMENT AND SUFFICIENT WATER TO PRODUCE MIX OF SUITABLE CONSISTENCY.
 13. STEP IRONS REQUIRED IN PITS >1.2m DEEP.
 14. CONFINED SPACE WARNING SIGN REQUIRED IN ALL NEW PITS.

PIT DEPTH	MINIMUM PIT SIZE
$d \leq 600$	450 x 450
$600 < d \leq 900$	600 x 600
$900 < d \leq 1200$	600 x 900
$d \geq 1200$	900 x 900

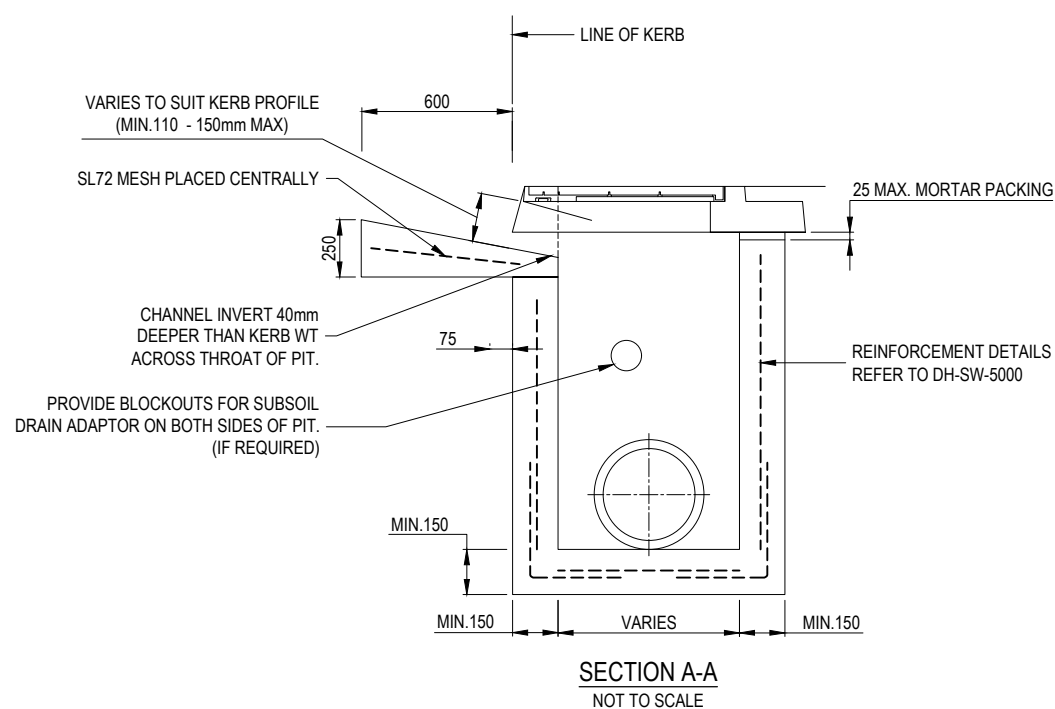


THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

[illegible]

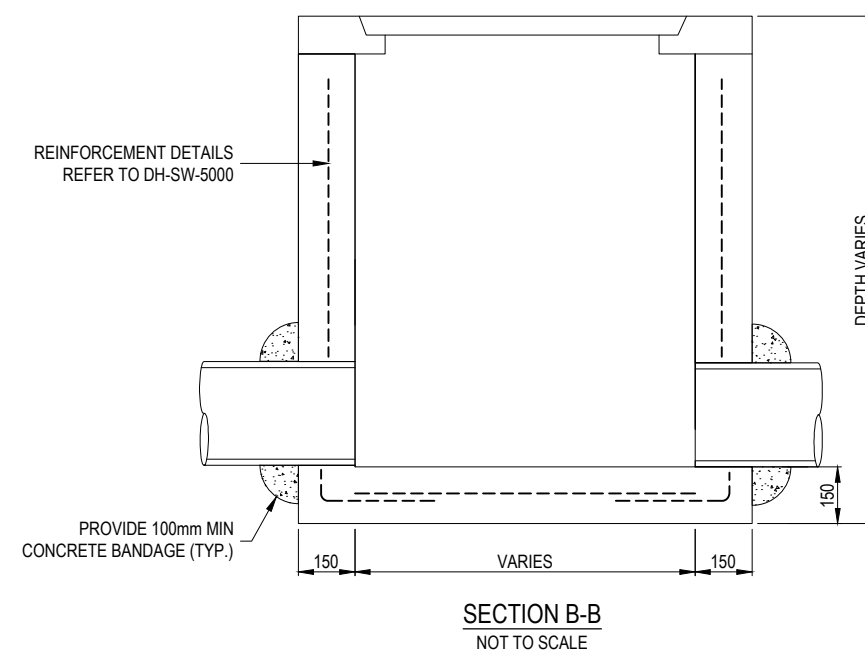
1. REFER TO DH-RD-1000 FOR KERB DETAILS.
2. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm BOTH SIDES AT LOW POINT (SAG) LOCATIONS.



ALL MEASUREMENTS IN MILLIMETRES

[illegible]

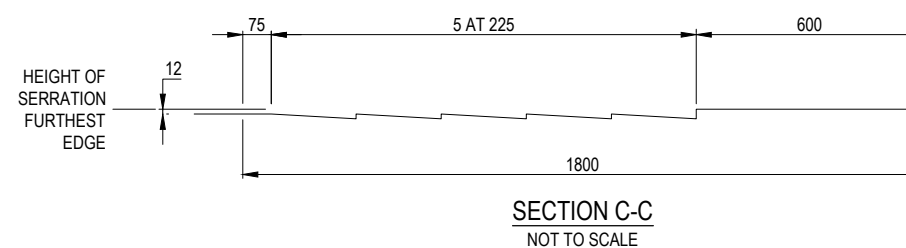
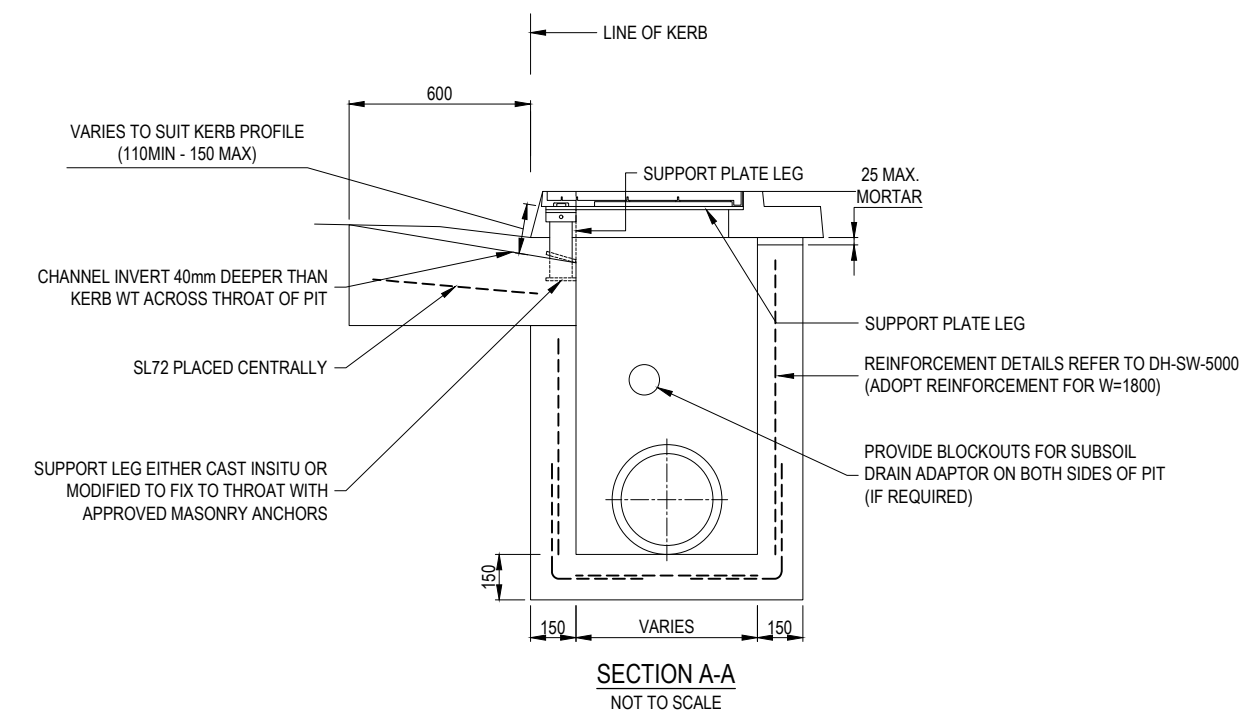
1. PRECAST LINTEL FRAME AND LIDS AS APPROVED BY RELEVANT AUTHORITY TO BE INSTALLED TO MANUFACTURERS RECOMMENDATIONS.
2. CONSTRUCT - Ø100mm P.V.C. PIPE WITH CONSTRUCTION WORKS TO DRAIN WATER FROM PAVEMENT. AS DIRECTED BY RELEVANT AUTHORITY.
3. AT LOW POINT TRANSITION 1200mm BOTH SIDES.
4. PRECAST LINTEL TO MATCH REQUIRED KERB TYPE.




ALL MEASUREMENTS IN MILLIMETRES

[illegible]

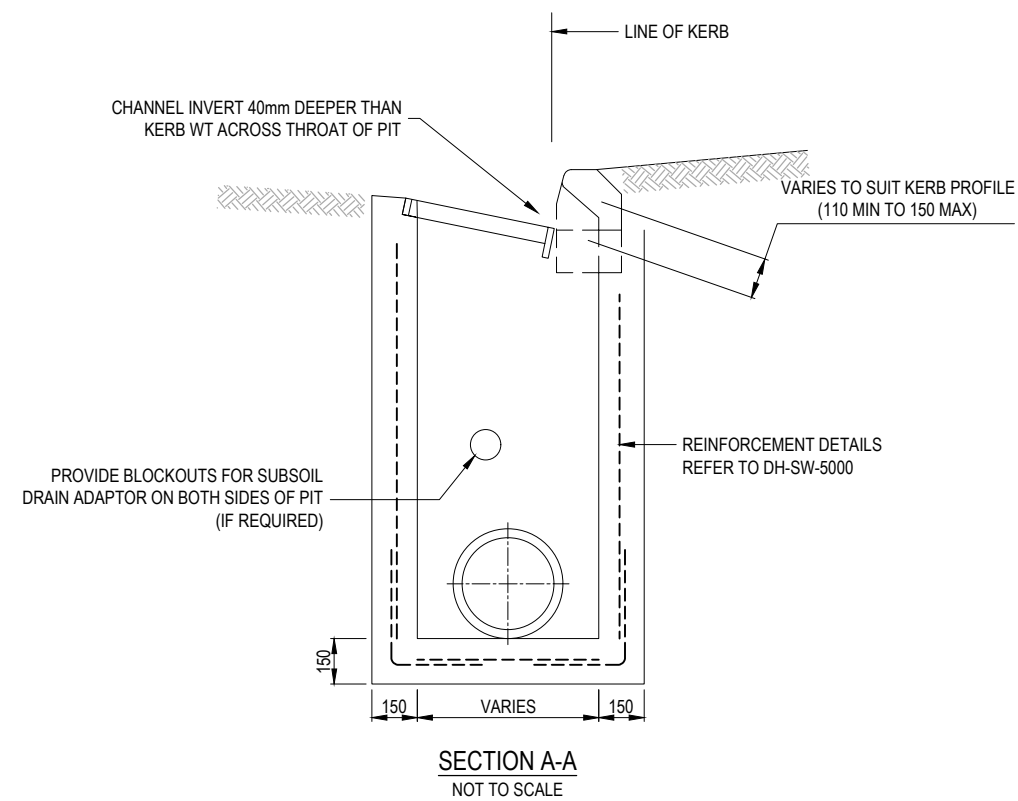
1. REFER TO DH-RD-1000 FOR KERB DETAILS.
2. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm BOTH SIDES AT LOW POINT (SAG) LOCATIONS.




ALL MEASUREMENTS IN MILLIMETRES

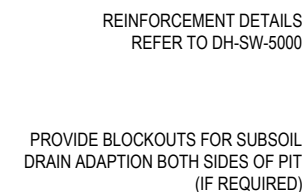
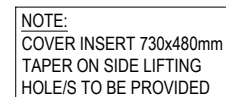
	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE STORMWATER DOUBLE SIDE ENTRY PIT 1900mm INLET
FIRST ISSUE							FOR INFORMATION		 <div>Government of South Australia Department for Housing and Urban Development</div>	DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479 DRAWING No. DH-SW-5030 MILESTONE REVISION B
A				19/12/24	ISSUED FOR REVIEW						
B				02/04/25	CLIENT SUBMISSION						

1. REFER TO DH-RD-1000 FOR KERB DETAILS.
2. CLASS D LOAD RATING REQUIRED.
3. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm ON BOTH SIDES AT LOW POINT (SAG) LOCATIONS.



	DESIGN	DRAWN	CHECK	APPRO.	DATE	AMENDMENT DETAILS	STATUS	CLIENT	SCALE AS SHOWN	PROJECT	DRAWING TITLE			
AMENDMENTS	A				19/12/24	ISSUED FOR REVIEW	FOR INFORMATION			SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	PRECAST SIDE ENTRY PIT INLET WITH GRATE INLINE			
	B				02/04/25	CLIENT SUBMISSION								
										DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	PROJECT No. 24-000479	DRAWING No. DH-SW-5035	MILESTONE B	REVISION B

1. CLASS D LOAD RATING REQUIRED FOR GRATE. COVERS TO BE CLASS B OR HIGHER IF LIKELY TO BE DRIVEN OVER.
2. PRECAST LINTEL AND GRATES APPROVED BY RELEVANT AUTHORITY TO BE INSTALLED BY MANUFACTURERS RECOMMENDATIONS.
3. CHANNEL DEPTH TRANSITION TO BE INCREASED TO 1200mm ON BOTH SIDES AT LOW POINT (SAG) LOCATIONS.



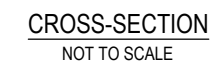
ALL MEASUREMENTS IN MILLIMETRES

[illegible]


1. ALL CONCRETE WORKS TO BE 32MPa UNLESS NOTED OTHERWISE.
2. 'DENSO 600' TAPE OR SIMILAR APPROVED SHALL BE USED. TAPE TO BE 200mm MIN. WIDTH AND LAPPED 100mm MIN. TAPE IS TO BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.
3. MORTAR MIX TO CONSIST OF 3 PARTS SAND TO 1 PART CEMENT BY VOLUME.

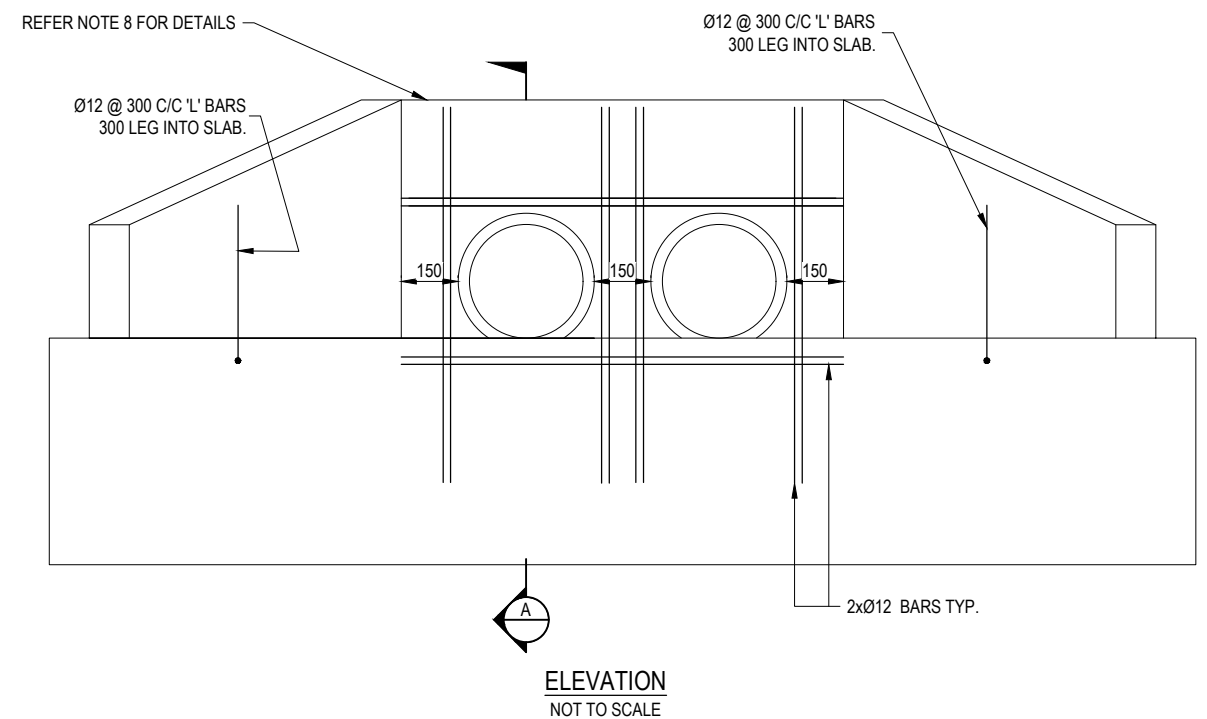
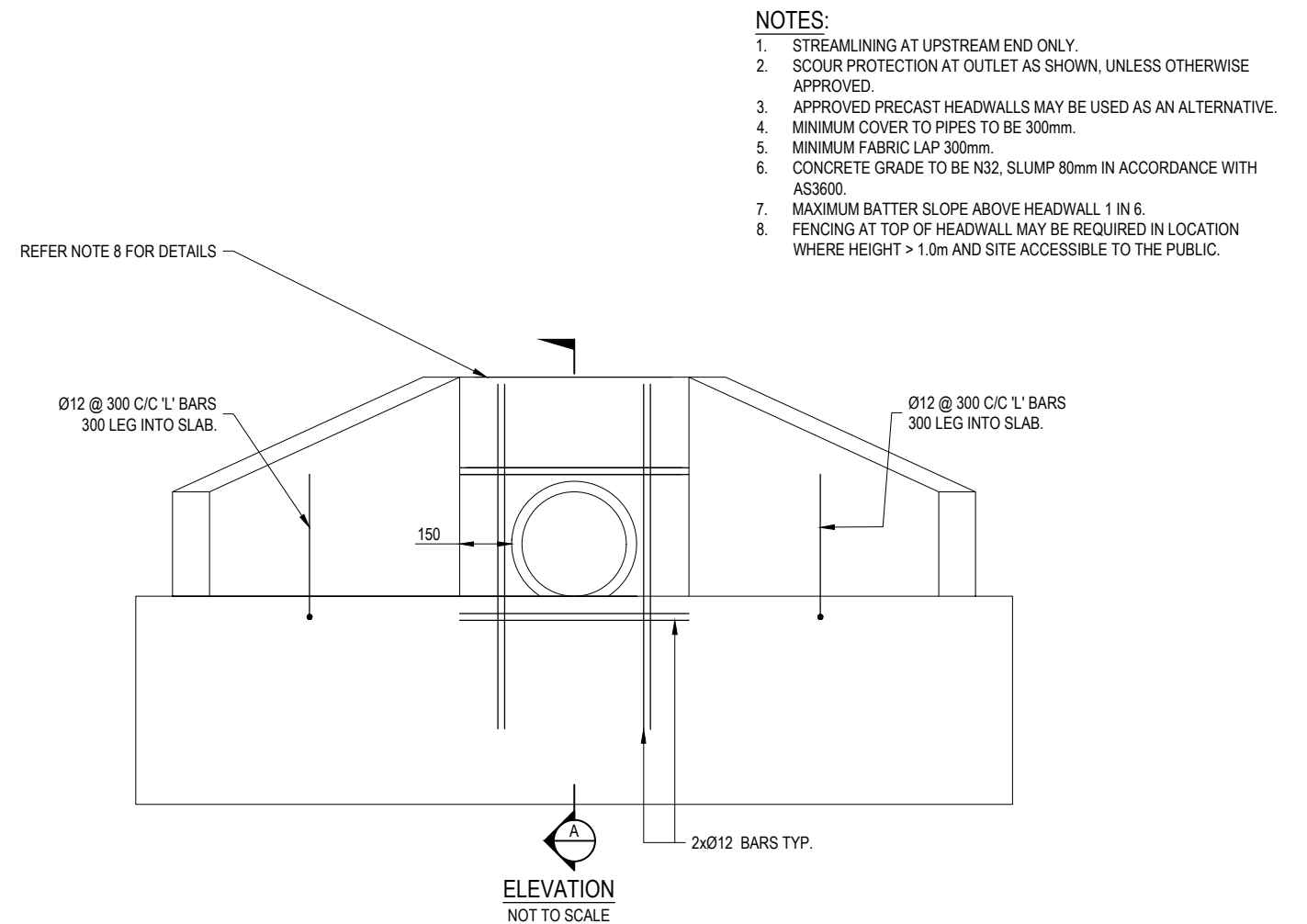
PIPE SIZE	MAXIMUM DEFLECTION ANGLE
• Ø300mm	16°
• Ø600mm	14°
• Ø900mm	12°
• Ø1800mm	6°

BANDAGE JOINT REQUIREMENTS		
PIPE DIAMETER (D)	THICKNESS (T)	WIDTH (W)
D < 900	150	1000
D ≥ 900	200	1500



ALL MEASUREMENTS IN MILLIMETRES

AMENDMENTS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE BANDAGE JOINT			
	A				19/12/24	ISSUED FOR REVIEW	FOR INFORMATION		 Government of South Australia Department for Housing and Urban Development	DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479	DRAWING No. DH-SW-5100	MILESTONE B	REVISION
	B				02/04/25	CLIENT SUBMISSION								



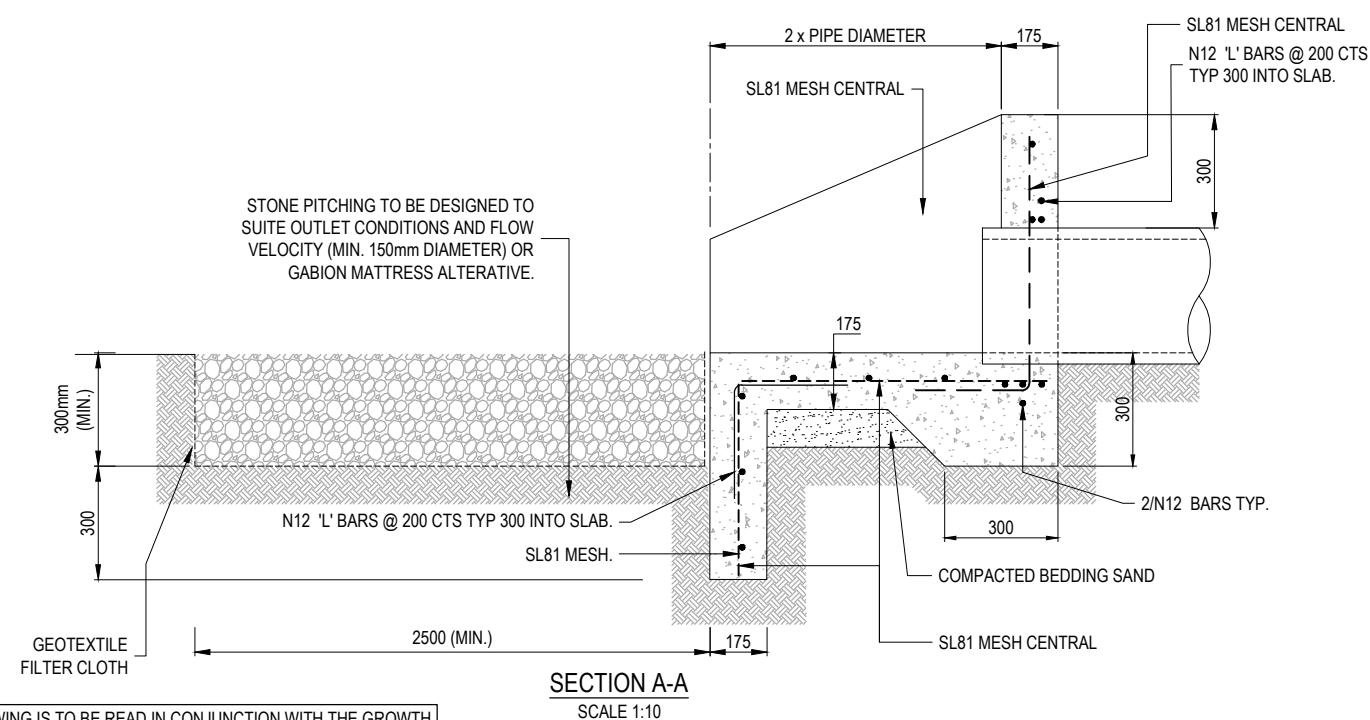
ALL MEASUREMENTS IN MILLIMETRES

PROJECTS DRAWING TITLE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	FOR INFORMATION	SCALE AS SHOWN	CLIENT	<div><div>Government of South Australia</div><div>Department for Housing and Urban Development</div></div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS DISCLAIMER: ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE STANDARD HEADWALL FOR PIPES 300-375 DIAMETER PROJECT No. DRAWING No. MILESTONE REVISION 24-000479 DH-SW-5200 B	
	A				19/12/24									ISSUED FOR REVIEW
	B				02/04/25									CLIENT SUBMISSION



NOTES:

1. STREAMLINING AT UPSTREAM END ONLY.
2. SCOUR PROTECTION AT OUTLET AS SHOWN, UNLESS OTHERWISE APPROVED.
3. APPROVED PRECAST HEADWALLS MAY BE USED AS AN ALTERNATIVE.
4. MINIMUM COVER TO PIPES TO BE 300mm.
5. MINIMUM FABRIC LAP 300mm.
6. CONCRETE GRADE TO BE N32, SLUMP 80mm IN ACCORDANCE WITH AS3600.
7. MAXIMUM BATTER SLOPE ABOVE HEADWALL 1 IN 6.
8. FENCING AT TOP OF HEADWALL MAY BE REQUIRED IN LOCATION WHERE HEIGHT > 1.0m AND SITE ACCESSIBLE TO THE PUBLIC.
9. COVER GRATE TO BE FIXED TO HEADWALL OVER PIPES 750mm DIAMETER OR GREATER TO PREVENT UNAUTHORISED ACCESS. GRATE TO BE SECURED WITH ANTI THEFT FIXINGS AND BE LOCKABLE FOR MAINTENANCE PURPOSES.

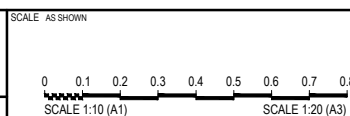


THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH
AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS
TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

[illegible]

FOR INFORMATION

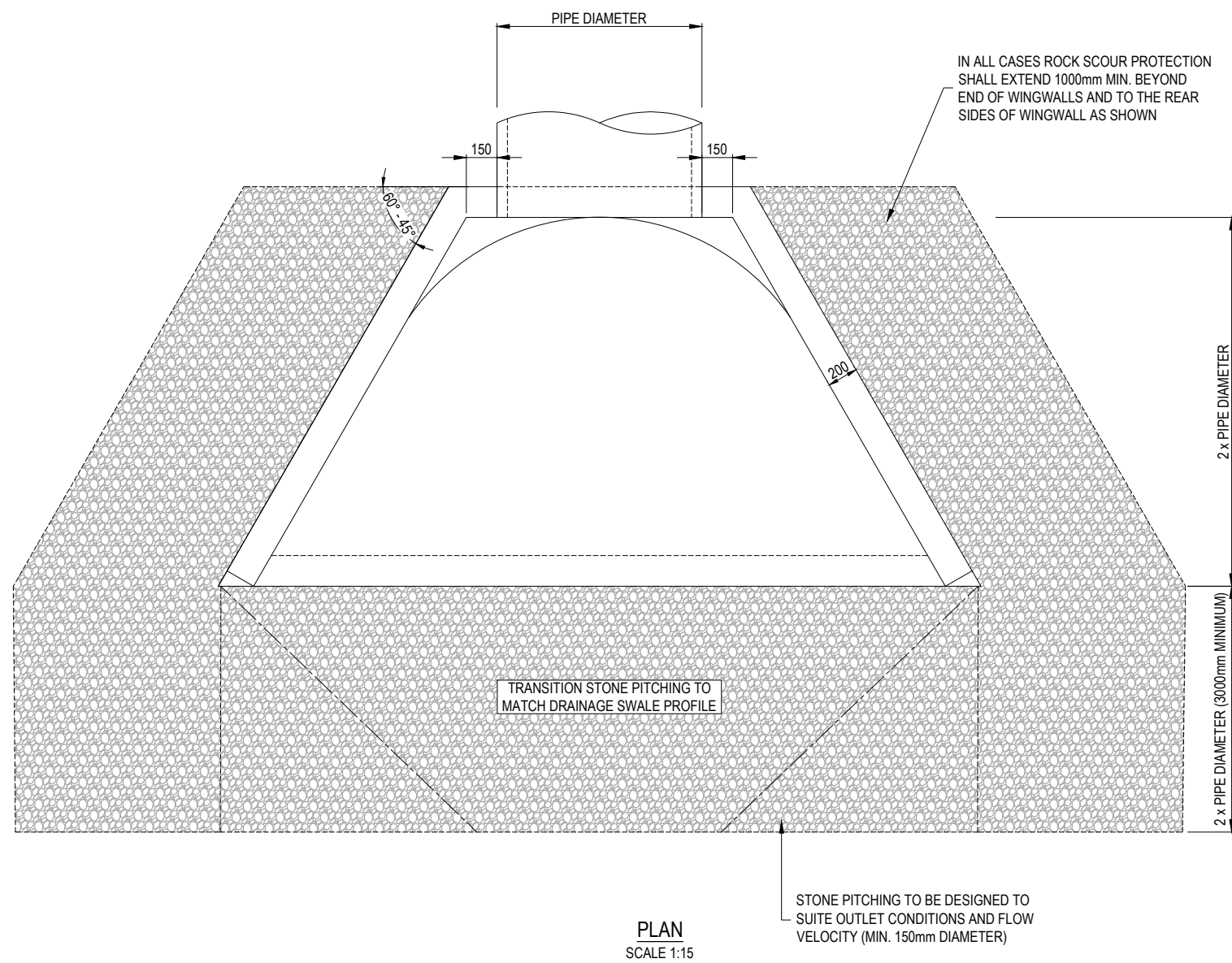


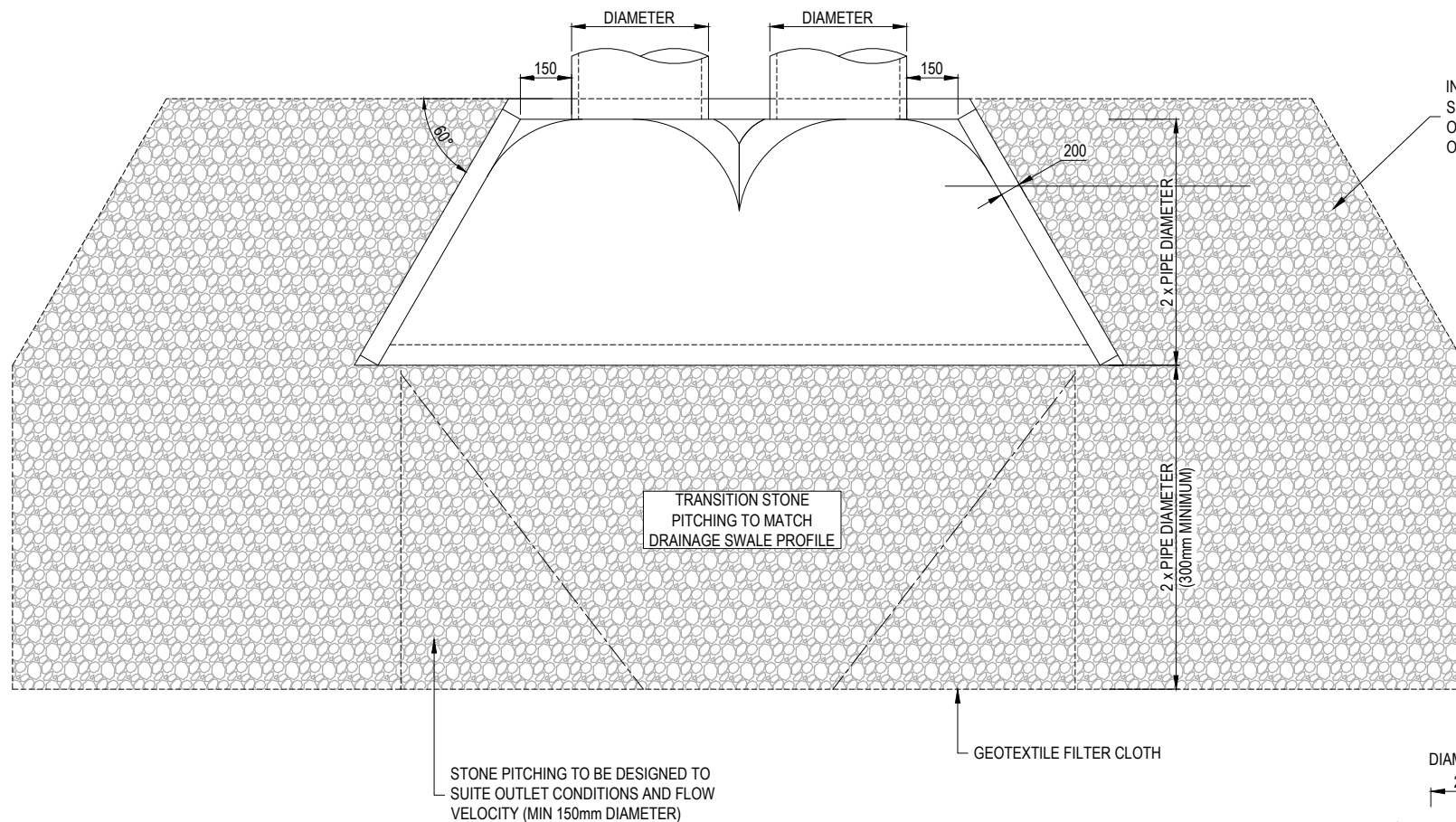
PROJECT
SOUTH AUSTRALIA GROWTH AREAS
ENGINEERING STANDARDS

DISCLAIMER
ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR
PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY
CERTIFYING AUTHORITY

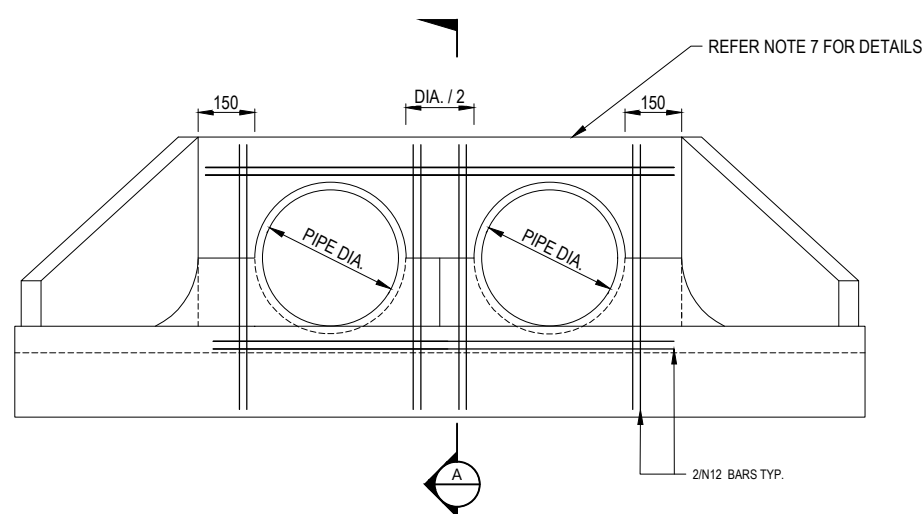
DRAWING TITLE
STANDARD HEADWALL FOR PIPES
450-750 DIAMETER

PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-SW-5205		B





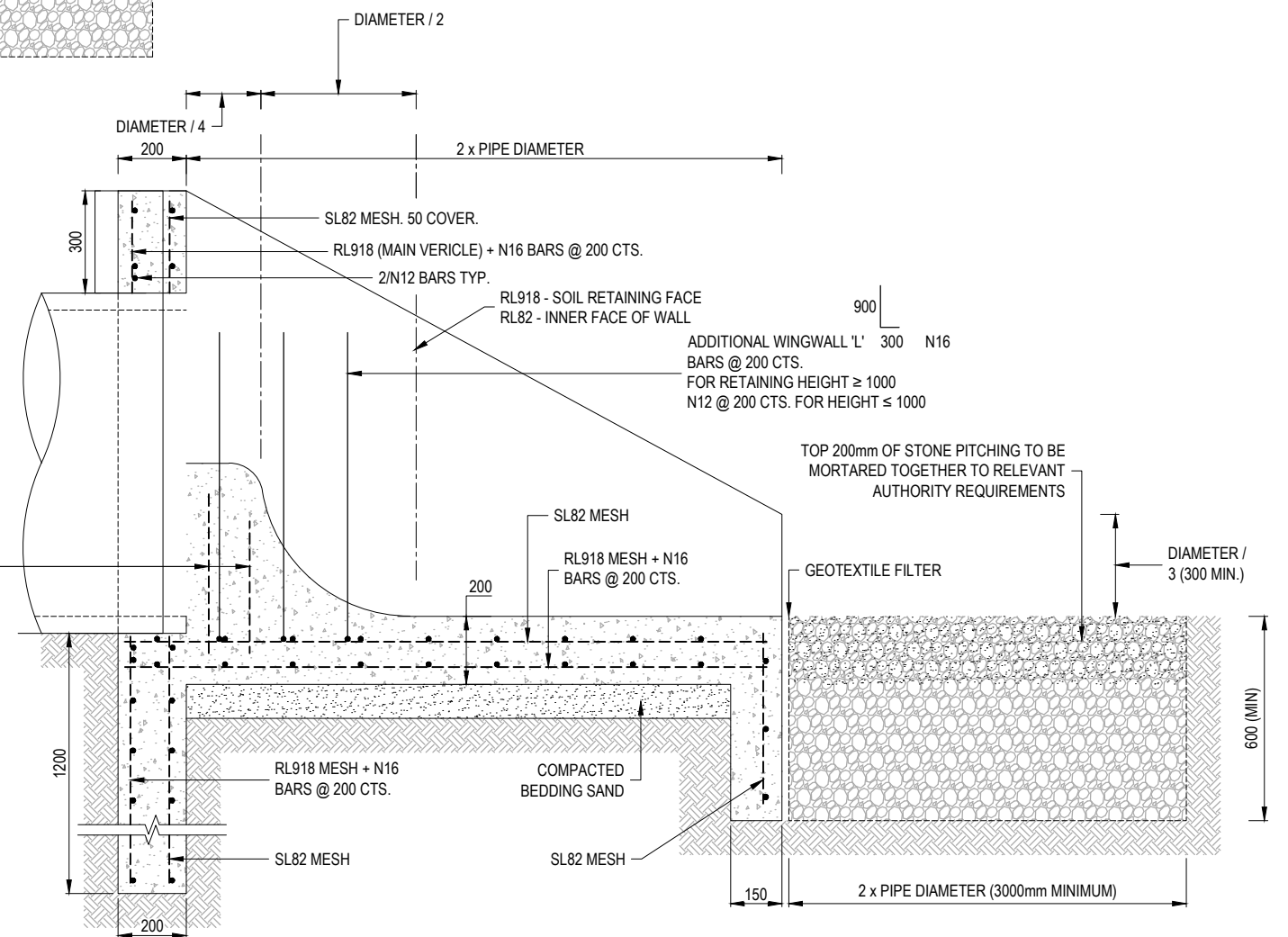
PLAN
SCALE 1:10



ELEVATION
SCALE 1:10

IN ALL CASES ROCK SCOUR PROTECTION SHALL EXTEND 1000mm MIN. BEYOND END OF WINGWALLS AND TO THE REAR SIDES OF WINGWALL AS SHOWN

- NOTES:
1. STREAMLINING AT UPSTREAM END ONLY.
 2. SCOUR PROTECTION AT OUTLET AS SHOWN, UNLESS OTHERWISE APPROVED.
 3. APPROVED PRECAST HEADWALLS MAY BE USED AS AN ALTERNATIVE.
 4. MINIMUM COVER TO PIPES TO BE 300mm.
 5. MINIMUM FABRIC LAP 300mm.
 6. CONCRETE GRADE TO BE N32, SLUMP 80mm IN ACCORDANCE WITH AS3600.
 7. FENCING AT TOP OF HEADWALL MAY BE REQUIRED IN LOCATION WHERE HEIGHT > 1.0m AND SITE ACCESSIBLE TO THE PUBLIC.
 8. ALTERNATE SCOUR PROTECTION INCLUDING MATTRESSES AT OUTLET OF HEADWALL ACCEPTABLE SUBJECT TO DESIGN BASED ON FLOW RATE AND VELOCITY.
 9. MAXIMUM BATTER SLOPE 1 IN 6.
 10. COVER GRATE TO BE FIXED TO HEADWALL OVER PIPES 750mm DIAMETER OR GREATER TO PREVENT UNAUTHORISED ACCESS. GRATE TO BE SECURED WITH ANTI THEFT FIXINGS AND BE LOCKABLE FOR MAINTENANCE PURPOSES.



SECTION A-A
SCALE 1:10

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\675-1800\SW-215\DWG\LAST SAVED BY: JO KERR PLOTTED: 24-May-25

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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B					20/12/24	ISSUED FOR REVIEW
C					02/04/25	CLIENT SUBMISSION

STATUS
FOR INFORMATION

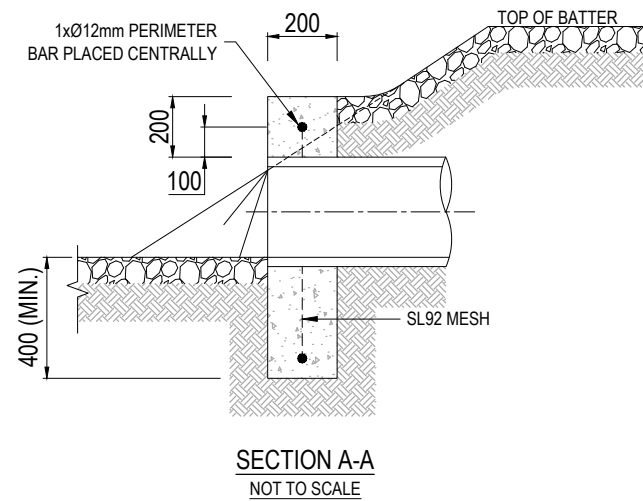
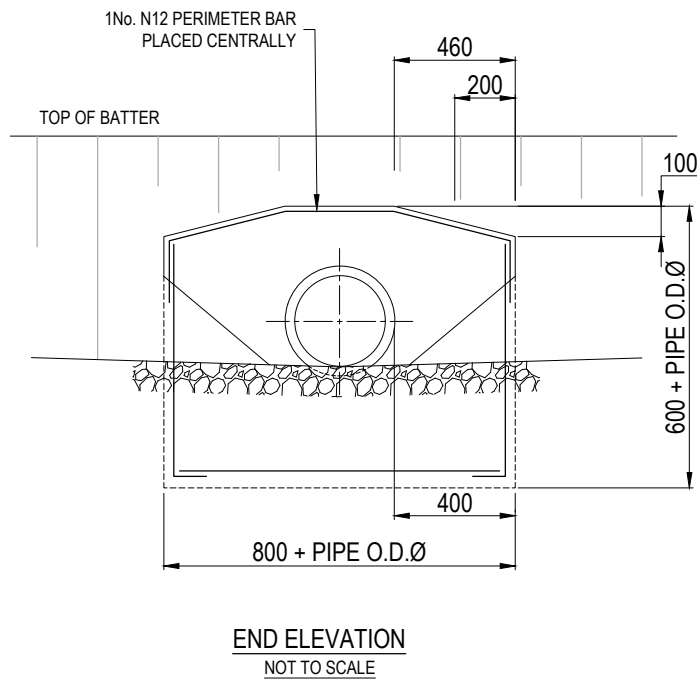
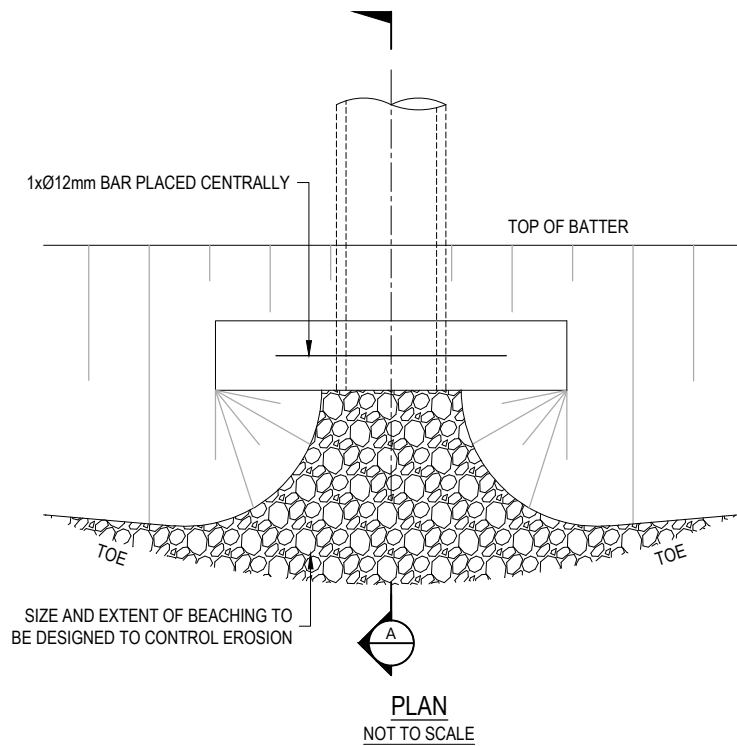
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SCALE 1:10 (A1) SCALE 1:20 (A3)

CLIENT
 Government of South Australia Department for Housing and Urban Development

PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE
STANDARD HEADWALL FOR TWIN PIPES 675-1800 DIAMETER
PROJECT No. 24-000479
DRAWING No. DH-SW-5215
MILESTONE
REVISION C

- NOTES:
1. COMPACTION PRESSURE BEHIND ENDWALLS IS NOT TO EXCEED 12.5kPa.
REFER (1.5 TONNE VIBRATORY ROLLER).
 2. A MAXIMUM PIPE SIZE OF Ø300mm FOR THIS ENDWALL ARRANGEMENT.
 3. NOT TO BE USED WHERE GENERAL VEHICULAR TRAFFIC IS PRESENT (MAINTENANCE OR EMERGENCY VEHICLES EXCEPTED).
 4. ALTERNATIVELY PRECAST ENDWALL MAY BE USED WHERE APPROVED BY RELEVANT AUTHORITY.
 5. CONCRETE STRENGTH F'C = 25 MPa (MIN.) AT 28 DAYS.
 6. MAXIMUM BATTER SLOPE 1V : 6H.



THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

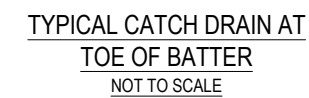
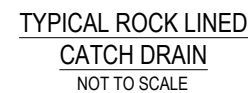
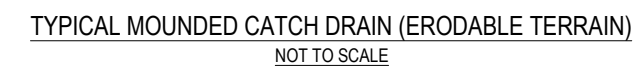
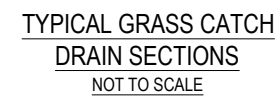
ALL MEASUREMENTS IN MILLIMETRES

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT	DRAWING TITLE			
	A					19/12/24	ISSUED FOR REVIEW								
	B					20/12/24	ISSUED FOR REVIEW								
	C					02/04/25	CLIENT SUBMISSION								
FOR INFORMATION															
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY												PROJECT No. 24-000479	DRAWING No. DH-SW-5220	MILESTONE	REVISION C

1. MAXIMUM OUTLET PIPE DIAMETER 600mm.

[illegible]

1. CATCH DRAINS SHALL BE CONSTRUCTED WHERE INDICATED ON ALIGNMENT PLANS.
2. CATCH DRAINS LOCATION RELATIVE TO THE BATTER SHALL BE DETERMINED BY THE RELEVANT AUTHORITY.
3. CATCH DRAINS SHALL BE GRADED TO CULVERTS OR EXISTING LOW POINTS.
4. CATCH DRAINS SHALL BE SPECIFIED BY THE DESIGNER AND THE LINING DETAILS BASED ON DESIGN FLOW VELOCITY, SCOUR POTENTIAL AND SOIL TYPE.

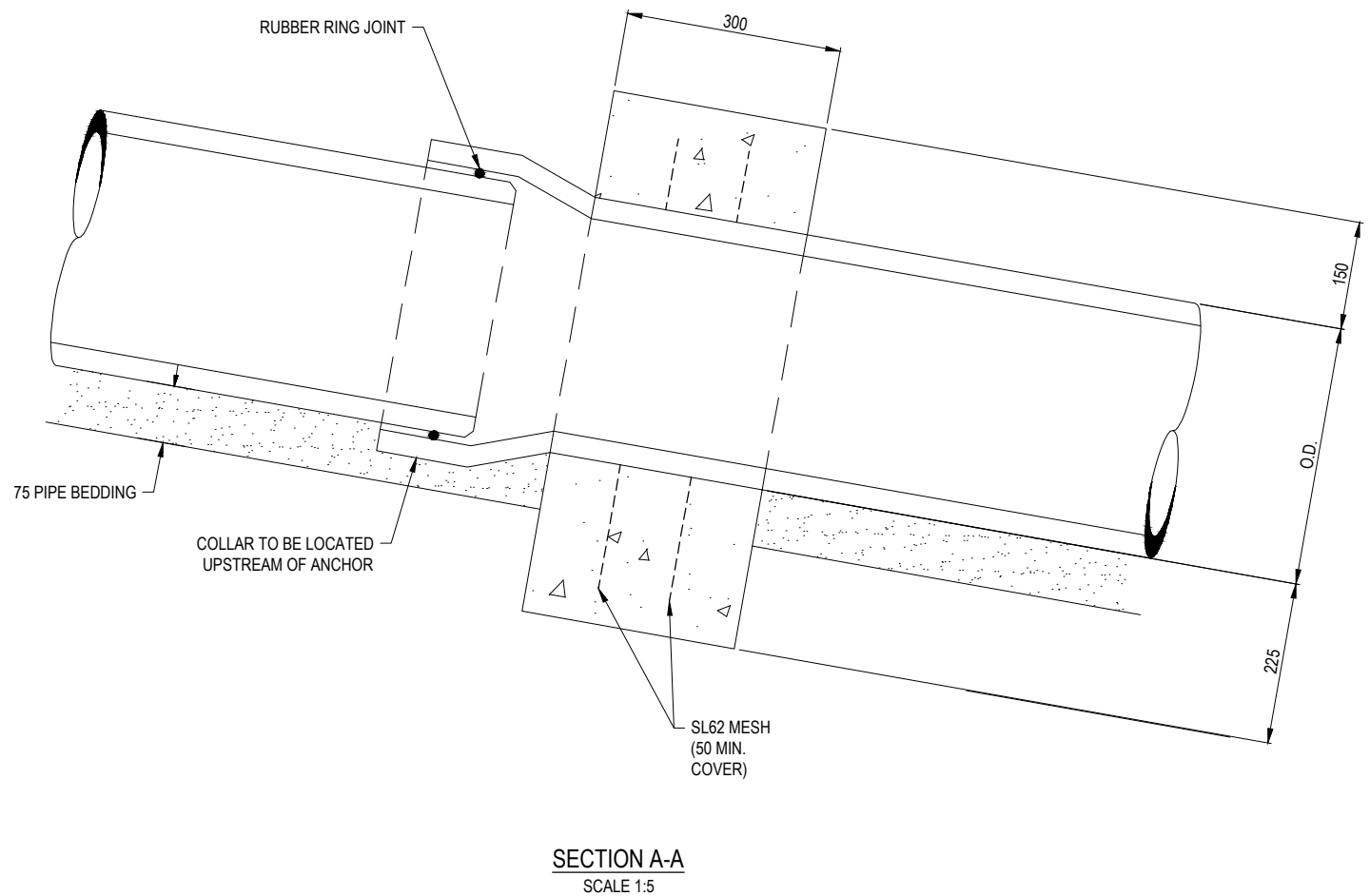
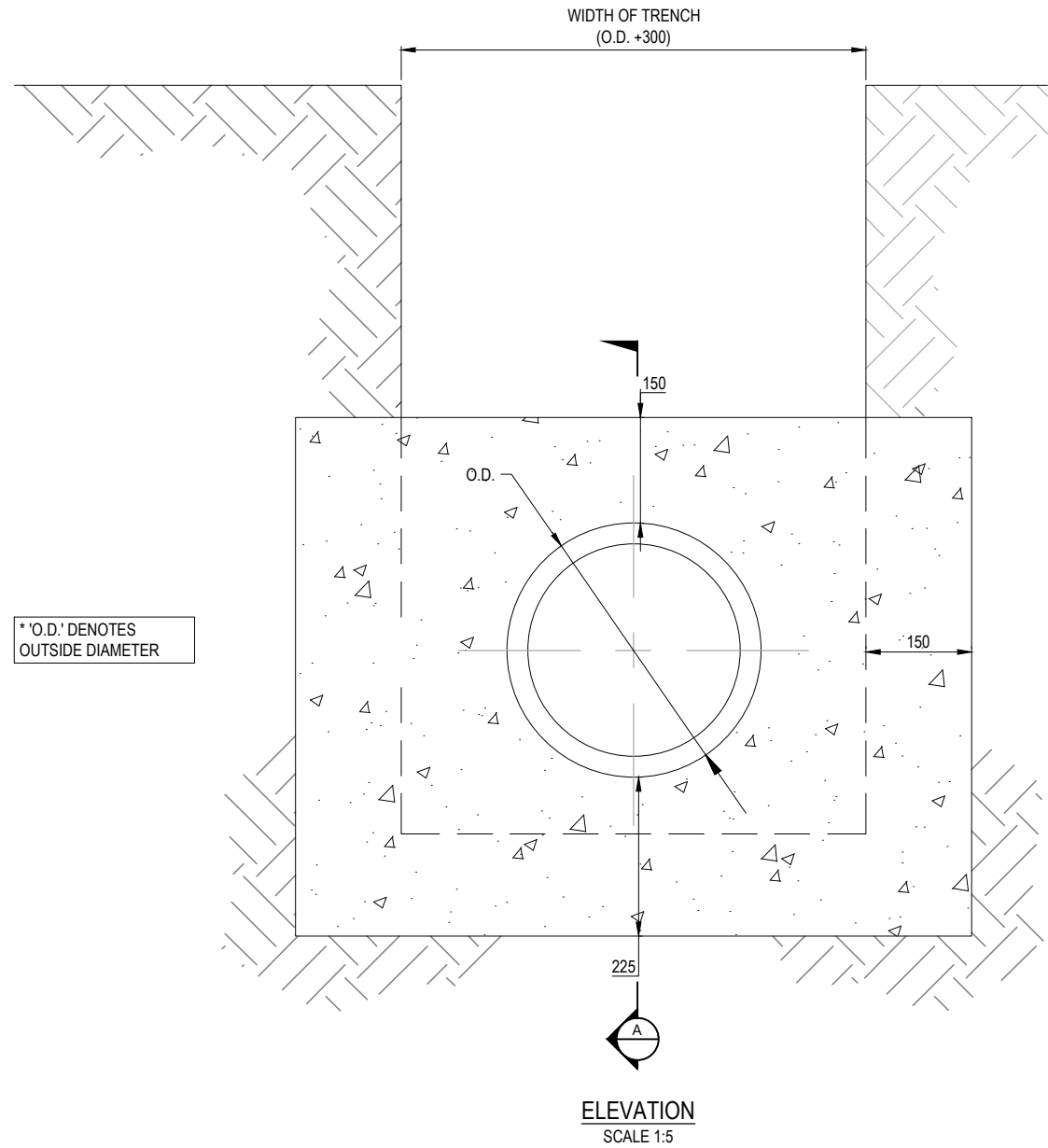


ALL MEASUREMENTS IN MILLIMETRES

[illegible]

NOTES:

- FOR USE ON STORMWATER DRAINAGE PIPE DIAMETERS UP TO 600mm AT GRADES OF 1 IN 5 OR GREATER. LARGER PIPES TO BE DESIGNED BASED ON SOIL TYPE AND DESIGN FLOW.
- TO BE CONSTRUCTED AT A MIN EVERY 5TH JOINT AND AT ALL STRUCTURES.
- CONCRETE STRENGTH TO BE 25MPa.
- RRJ PIPES TO BE USED.




ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\91024\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\1514-SW-5400.DWG LAST SAVED BY: JO KERR PLOTTED: 9 May 25

AMENDMENT DETAILS						STATUS	FOR INFORMATION	SCALE AS SHOWN	CLIENT	PROJECT	DRAWING TITLE
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE						
A					19/12/24	ISSUED FOR REVIEW				SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	STORMWATER DRAINAGE PIPE ANCHOR BLOCK
B					02/04/25	CLIENT SUBMISSION					
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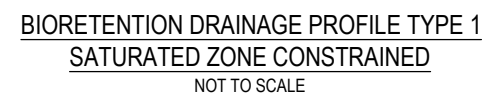
SCALE 1:5 (A1) SCALE 1:10 (A3)

 **Government of South Australia**
Department for Housing
and Urban Development

DISCLAIMER
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CERTIFYING AUTHORITY

PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-SW-5400		B

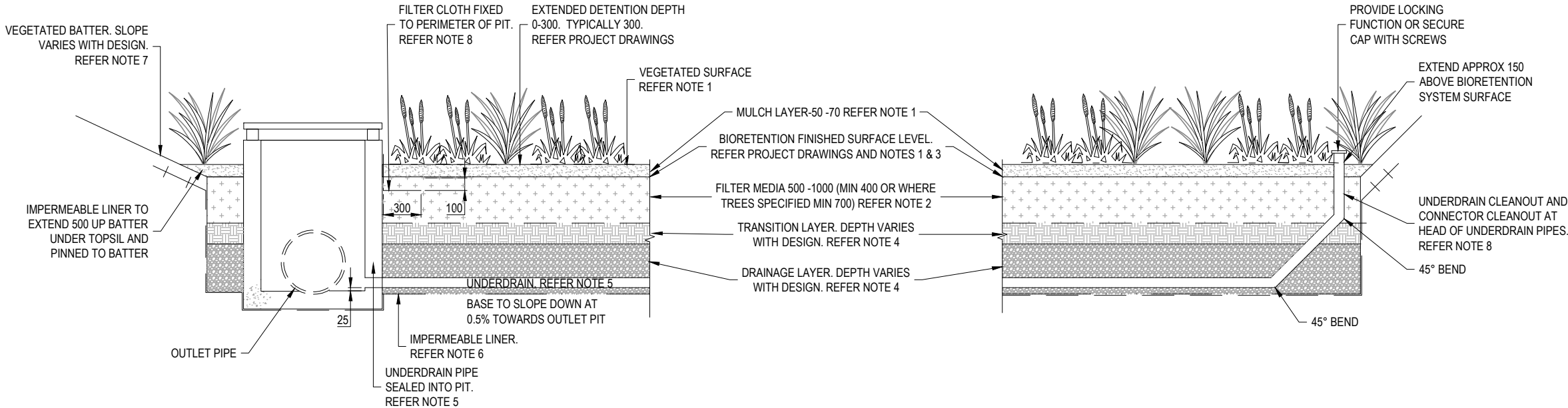
1. BIORETENTION SYSTEM SURFACE REFER NOTE 1 DH-SW-6101.
2. FILTER MEDIA SPECIFICATION REFER NOTE 2 D DH-SW-6101.
3. CONSTRUCTION TOLERANCES REFER NOTE 3 DH-SW-6101.
4. TRANSITION LAYER AND DRAINAGE LAYER REFER NOTE 4 DH-SW-6101.
5. UNDERDRAIN REFER NOTE 5 DH-SW-6101.
6. IMPERMEABLE LINER REFER NOTE 6 DH-SW-6101.
7. VEGETATED BATTER REFER NOTE 8 DH-SW-6101.
8. INSPECTION/CLEANOUT POINT REFER NOTE 9 DH-SW-6101.
9. FILTER CLOTH REFER NOTE 10 DH-SW-6101.
10. FOR GENERAL DESIGN AND CONSTRUCTION NOTES REFER TO DH-SW-6100.



ALL MEASUREMENTS IN MILLIMETRES

[illegible]

- NOTES:
1. BIORETENTION SYSTEM SURFACE. REFER NOTE 1 DH-SW-6101.
 2. FILTER MEDIA SPECIFICATION. REFER NOTE 2 DH-SW-6101.
 3. CONSTRUCTION TOLERANCES. REFER NOTE 3 DH-SW-6101.
 4. TRANSITION LAYER AND DRAINAGE LAYER. REFER NOTE 4 DH-SW-6101.
 5. UNDERDRAIN. REFER NOTE 5 DH-SW-6101.
 6. IMPERMEABLE LINER. REFER NOTE 6 DH-SW-6101.
 7. VEGETATED BATTER. REFER NOTE 8 DH-SW-6101.
 8. INSPECTION/CLEANOUT POINT. REFER NOTE 9 DH-SW-6101.
 9. FILTER CLOTH REFER NOTE 10 DH-SW-6101.
 10. FOR GENERAL DESIGN AND CONSTRUCTION NOTES REFER TO DH-SW-6100.



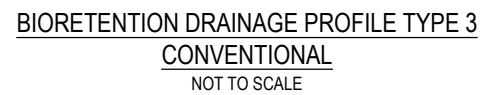
BIORETENTION DRAINAGE PROFILE TYPE 2
SEALED
NOT TO SCALE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL


ALL MEASUREMENTS IN MILLIMETRES

AMENDMENTS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE BIORETENTION DRAINAGE PROFILE TYPE 2 - SEALED
	A					19/12/24	ISSUED FOR REVIEW					
	B					27/03/25	CLIENT SUBMISSION					
FOR INFORMATION												

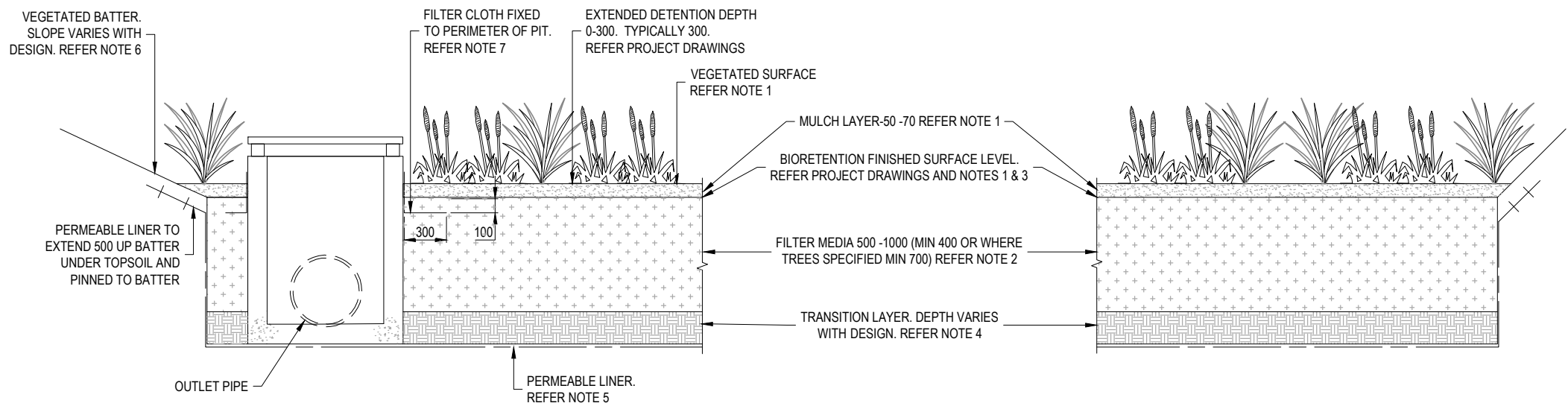
1. BIORETENTION SYSTEM SURFACE. REFER NOTE 1 DH-SW-6101.
2. FILTER MEDIA SPECIFICATION. REFER NOTE 2 DH-SW-6101.
3. CONSTRUCTION TOLERANCES. REFER NOTE 3 DH-SW-6101.
4. TRANSITION LAYER AND DRAINAGE LAYER .REFER NOTE 4 DH-SW-6101.
5. UNDERDRAIN. REFER NOTE 5 DH-SW-6101.
6. PERMEABLE LINER. NON-WOVEN GEOTEXTILE FILTER CLOTH TO BASE AND SIDES OF BIORETENTION SYSTEM. FILTER CLOTH NOT TO BE PLACED BETWEEN ANY FILTER LAYERS. PERMEABLE LINER AS PER PROJECT DRAWINGS AND 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN).
7. VEGETATED BATTER REFER NOTE 8 DH-SW-6101.
8. INSPECTION/CLEANOUT POINT. REFER NOTE 9 DH-SW-6101.
9. FILTER CLOTH REFER NOTE 10 DH-SW-6101.
10. FOR GENERAL DESIGN AND CONSTRUCTION NOTES REFER TO DH-SW-6100.



ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE A M B N O P S (E.E.S.) CALVAL PROJECT ISSUES Y02-04-04	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS		STATUS	SCALE AS SHOWN	CLIENT	PROJECT	BROWSING TITLE			
					19/12/04	ISSUED FOR REVIEW		FOR INFORMATION		 Government of South Australia Department of Housing and Urban Development	SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	BIORETENTION DRAINAGE PROFILE TYPE 3 - CONVENTIONAL			
					27/03/05	CLIENT SUBMISSION									
											DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USINGS WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	PROJECT No. 24-000479	DRAWING No. DH-SW-6104	MILESTONE	REVISION B

- NOTES:
1. BIORETENTION SYSTEM SURFACE. REFER NOTE 1 DH-SW-6101.
 2. FILTER MEDIA SPECIFICATION. REFER NOTE 2 DH-SW-6101.
 3. CONSTRUCTION TOLERANCES. REFER NOTE 3 DH-SW-6101.
 4. TRANSITION LAYER DEPTH VARIES WITH DESIGN. DEPTH AND SPECIFICATION TO BE IN ACCORDANCE WITH PROJECT DRAWINGS AND THE 'BIORETENTION TECHNICAL DESIGN GUIDELINES' (WATER BY DESIGN).
 5. PERMEABLE LINER. REFER NOTE 6 DH-SW-6104.
 6. VEGETATED BATTER. REFER NOTE 8 DH-SW-6100.
 7. FILTER CLOTH REFER NOTE 10 DH-SW-6101.
 8. FOR GENERAL DESIGN AND CONSTRUCTION NOTES REFER TO DH-SW-6100.



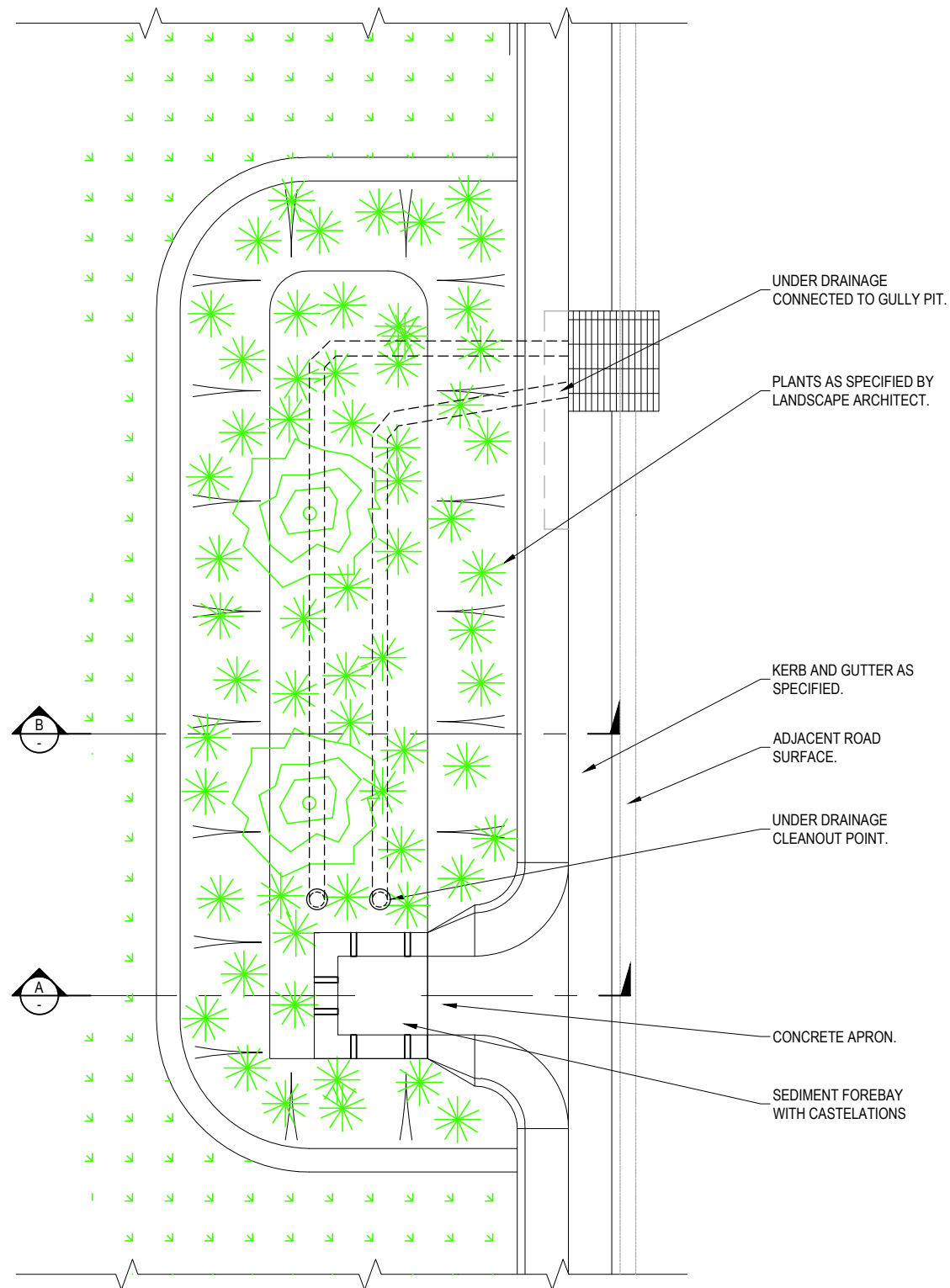
BIORETENTION DRAINAGE PROFILE TYPE 4
PIPELESS
NOT TO SCALE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

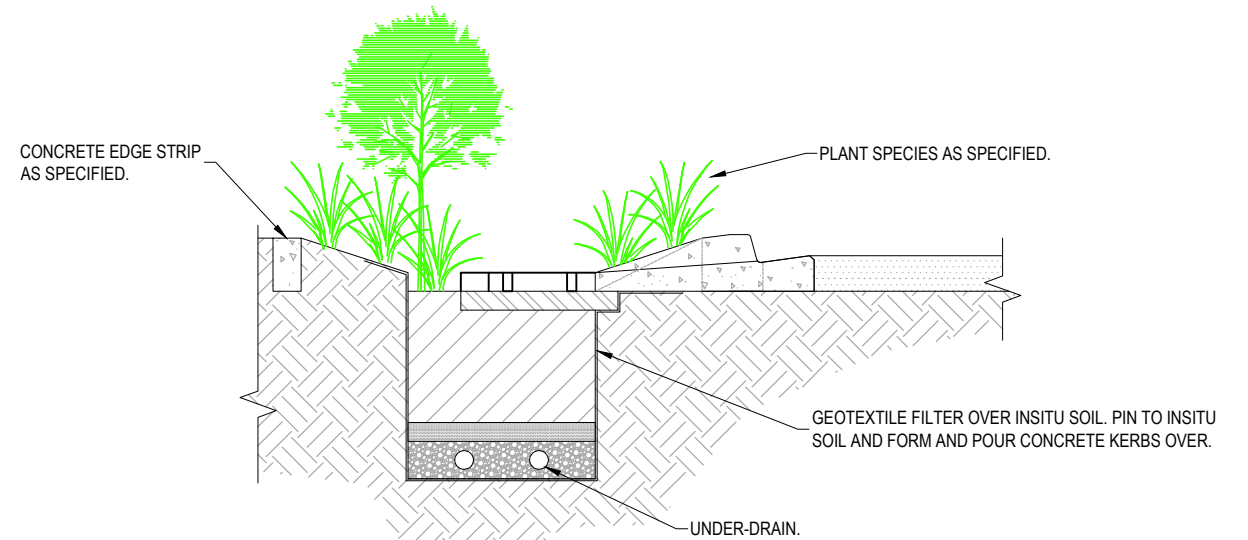
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	B				27/03/25	CLIENT SUBMISSION						
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY												
							PROJECT No.		DRAWING No.		MILESTONE	REVISION
							24-000479		DH-SW-6105			B

FILE: S:\CAUS PROJECTS\1924\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL AUTOCAD\DWG\19-SW-6120.DWG LAST SAVED BY: JO KERR PLOTTED: 9-May-25

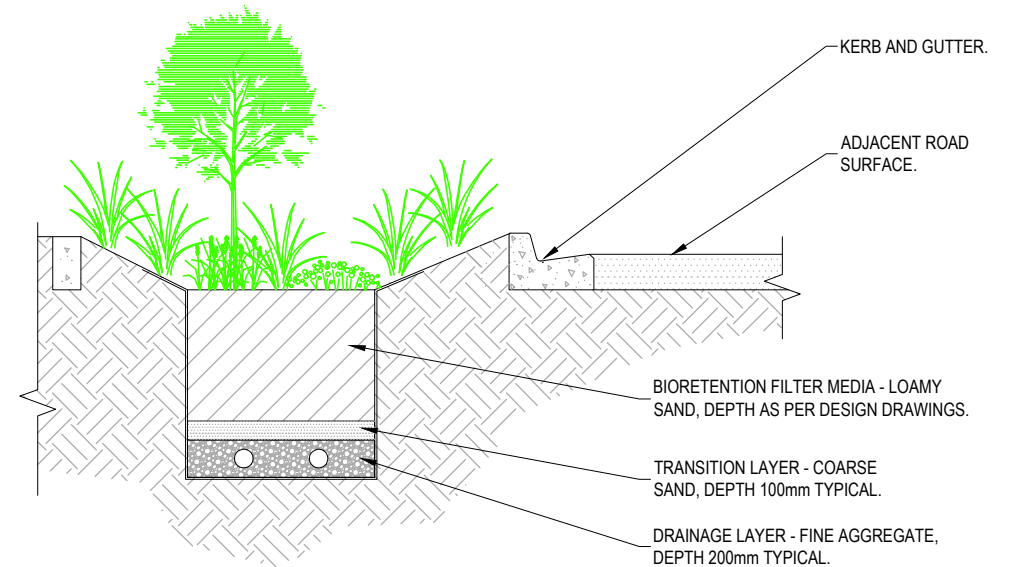


PLAN
NOT TO SCALE

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL



SECTION A-A
NOT TO SCALE



SECTION B-B
NOT TO SCALE

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					19/12/24	ISSUED FOR REVIEW
B					27/03/25	CLIENT SUBMISSION
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STATUS
FOR INFORMATION

SCALE AS SHOWN

CLIENT

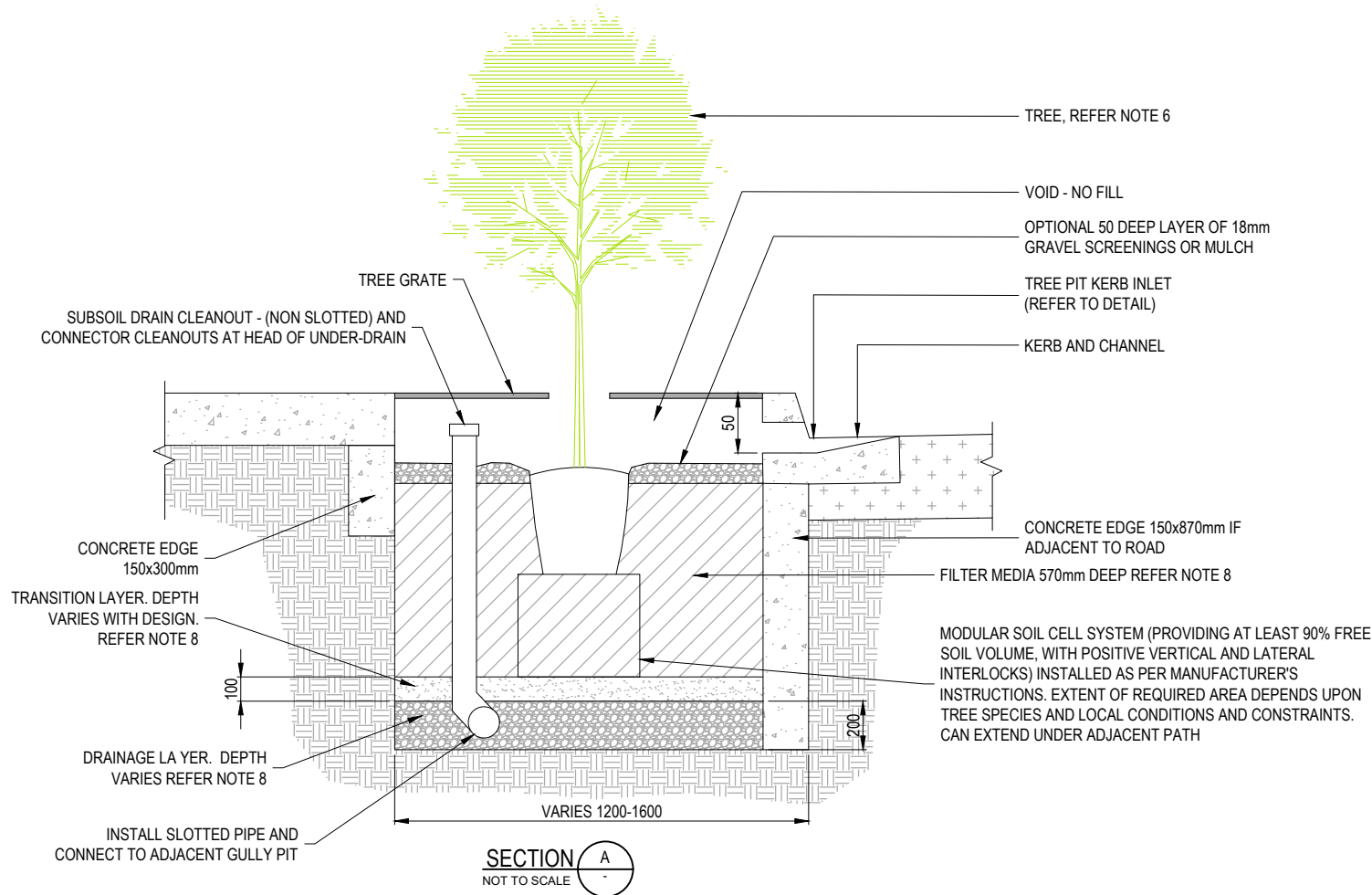
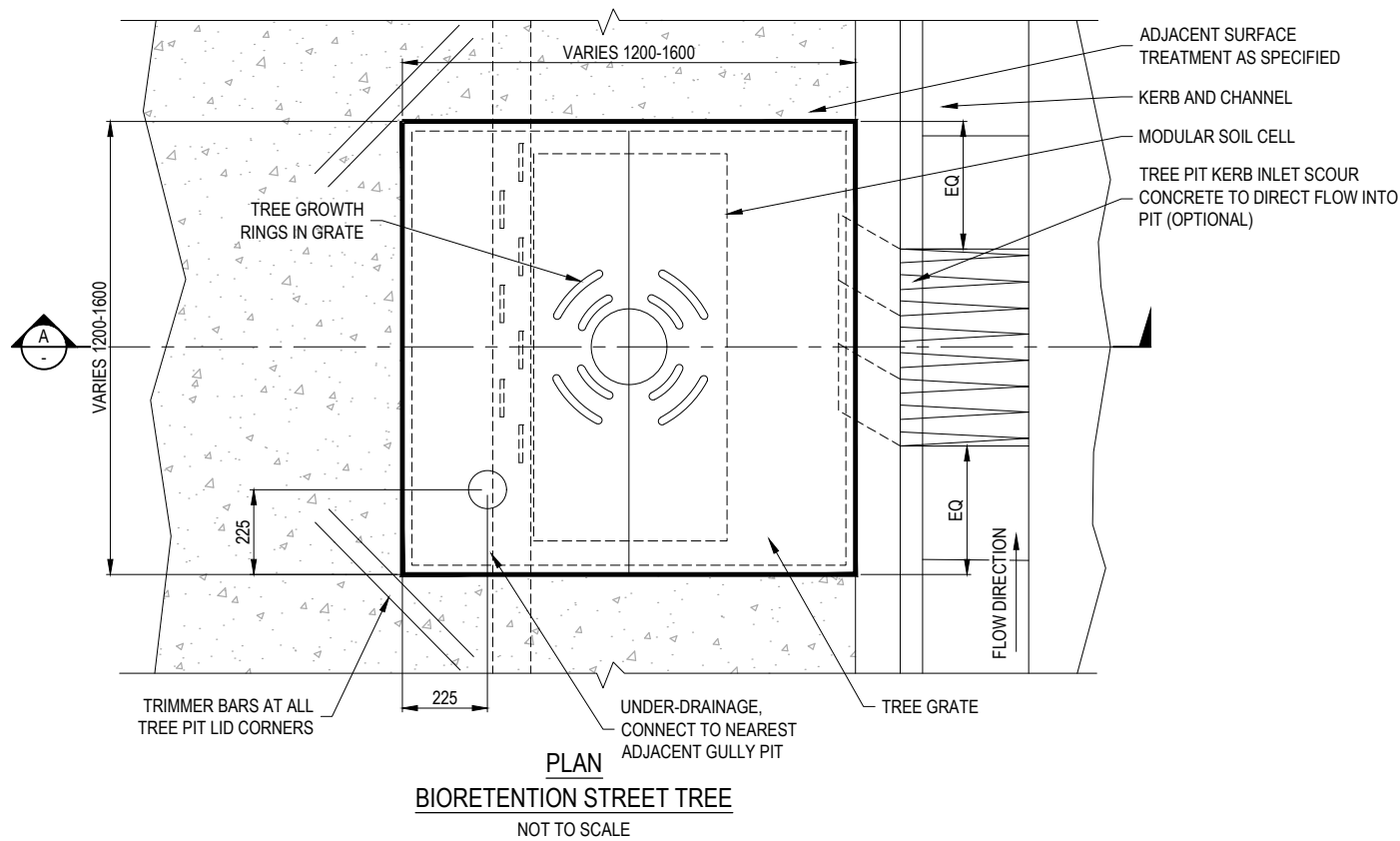
 **Government of South Australia**
Department for Housing and Urban Development

PROJECT

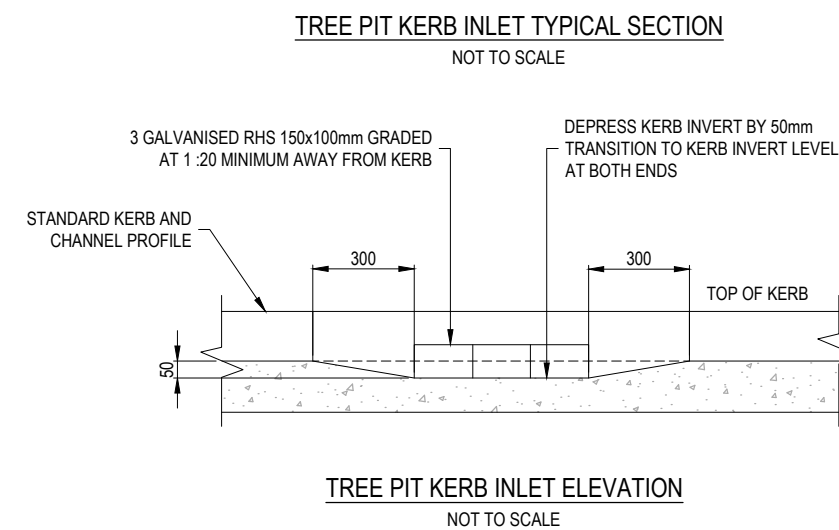
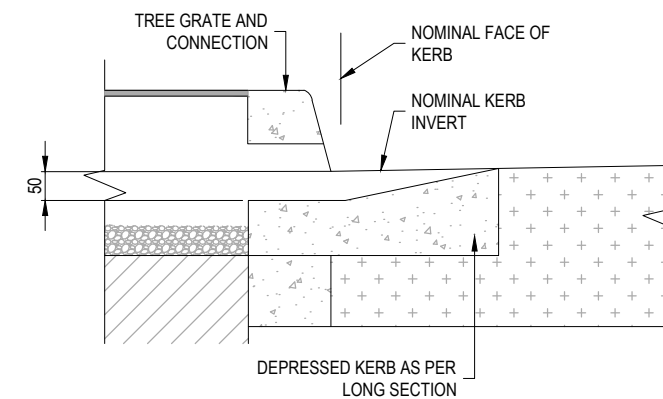
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS

DISCLAIMER
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DRAWING TITLE			
STREETSCAPE BIORETENTION			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-SW-6120		B



- NOTES:**
- FOR GENERAL DESIGN AND CONSTRUCTION NOTES REFER TO DH-SW-6100.
 - WSUD KERB SHOWN IS ONLY SUITABLE FOR STREET TREE PITS AND SMALL RAINGARDENS. LARGER SYSTEMS MAY NEED SPECIFIC INLET DESIGN OR MULTIPLE INLETS.
 - WHERE NO PARKING LANE EXISTS, RHS KERB INLET MAY BE REPLACED BY AN OPEN KERB CUT.
 - ENSURE TREE PIT DRAINAGE IS CONNECTED TO STORMWATER SYSTEM TO AVOID FLOODING THE TREE.
 - TREE PITS ARE TO BE LOCATED UPSTREAM OF GULLY PITS.
 - STREET TREE TO BE APPROPRIATE FOR TRAFFIC SIGHT LINES.
 - FILTER MEDIA SPECIFICATION SHALL BE IN ACCORDANCE WITH THE 'GUIDELINES FOR SOIL FILTER MEDIA IN BIORETENTION SYSTEMS', (FAWB) AND THE 'BIORETENTION TECHNICAL DESIGN GUIDELINES', (WATER BY DESIGN). BIORETENTION HYDRAULIC CONDUCTIVITY SHALL BE IN ACCORDANCE WITH 'PRACTICE NOTE 1: INSITU MEASUREMENT OF HYDRAULIC CONDUCTIVITY' (FAWB). THE NUMBER OF SAMPLES TO BE TESTED SHALL BE IN ACCORDANCE WITH THE 'CONSTRUCTION AND ESTABLISHMENT GUIDELINES - SWALES, BIORETENTION SYSTEMS AND WETLANDS' (WATER BY DESIGN).
 - TRANSITION LAYER AND DRAINAGE LAYER SPECIFICATIONS TO BE IN ACCORDANCE WITH BIORETENTION TECHNICAL DESIGN GUIDELINES (WATER BY DESIGN).
 - ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.



THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FILE: S:\CAUS PROJECTS\1924\24-00479 - GROWTH AREA ENGINEERING STANDARDS\06 - MODEL\AUTOCAD\DWG\13 - DWG LAST SAVED BY: J. KERR PLOTTED: 9-May-25

AMENDMENT DETAILS						STATUS	SCALE: AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE BIORETENTION STREET TREE
FIRST ISSUE	DESIGN	DRAWN	CHECK	APPRO.	DATE					
A					19/12/24	ISSUED FOR REVIEW				
B					27/03/25	CLIENT SUBMISSION				
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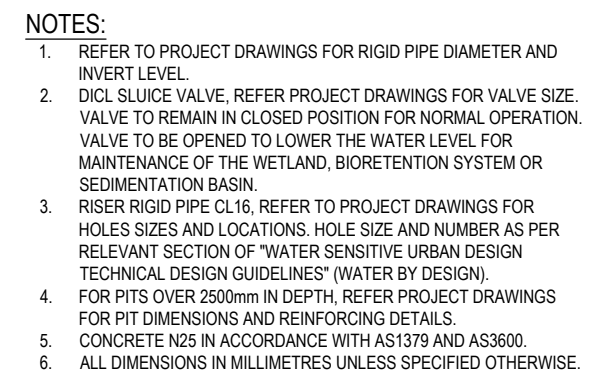
Government of South Australia Department for Housing and Urban Development
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DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

PROJECT No. 24-000479	DRAWING No. DH-SW-6130	MILESTONE	REVISION B
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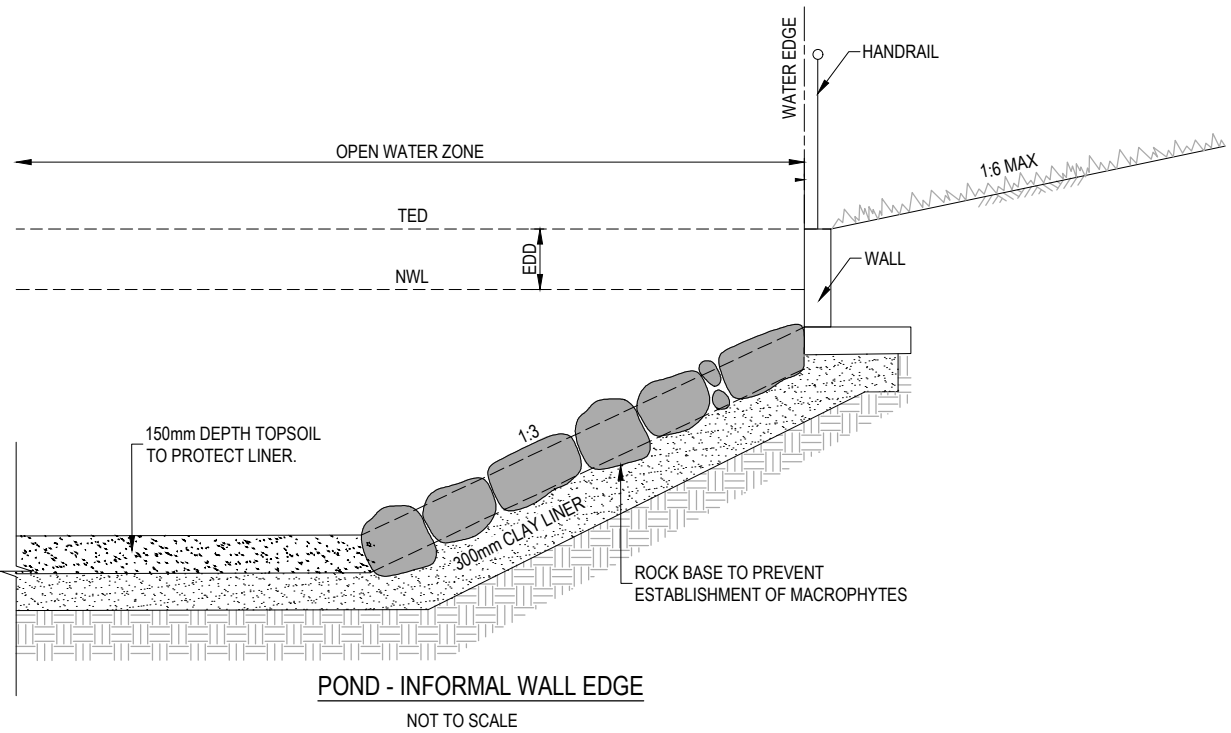
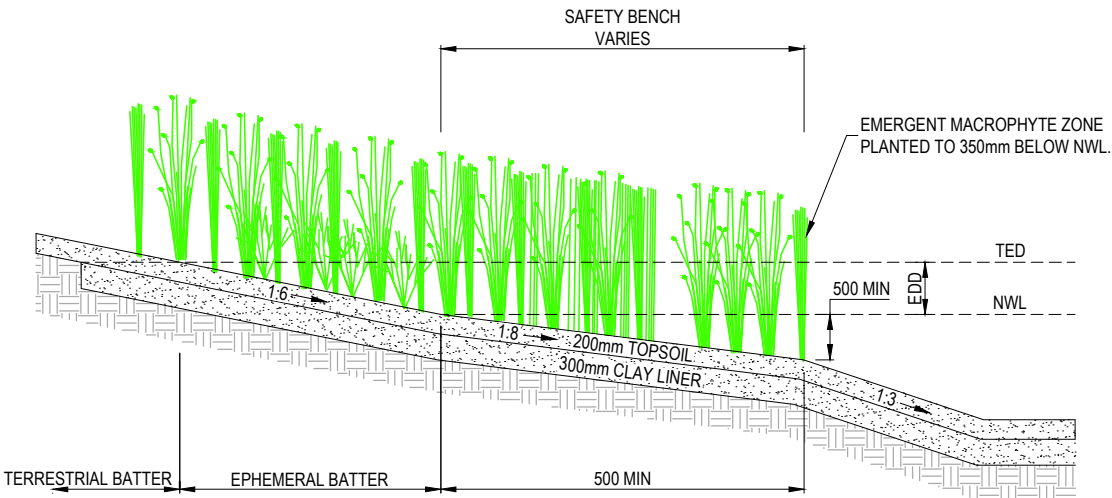
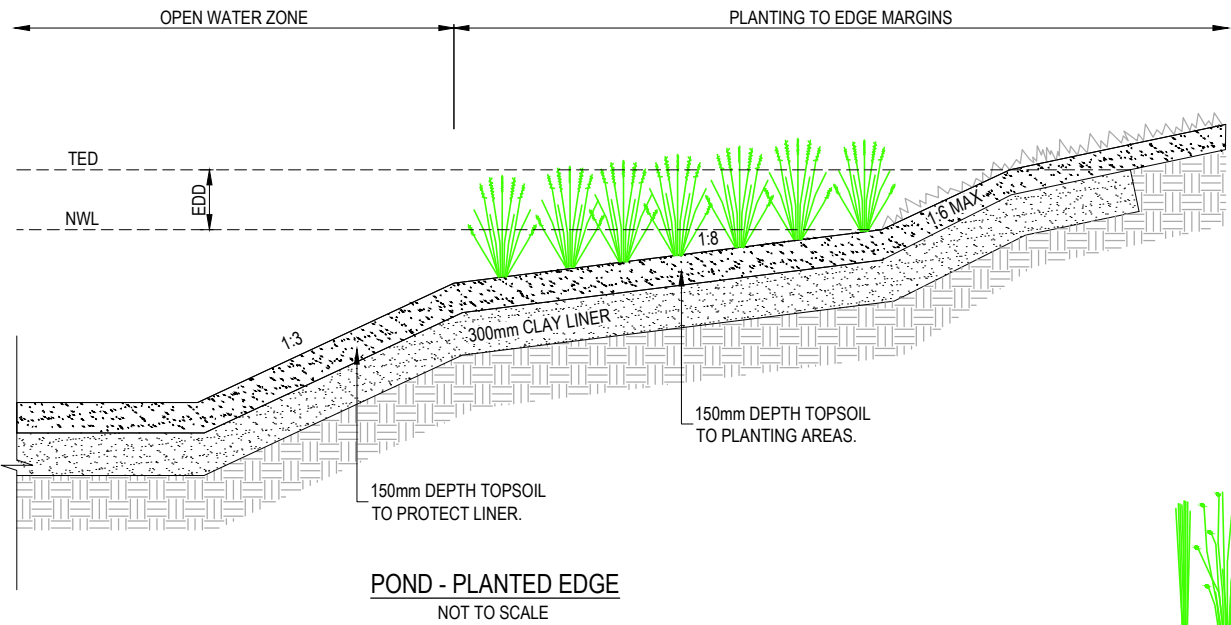
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	A				19/12/24									ISSUED FOR REVIEW	
	B				27/03/25									CLIENT SUBMISSION	
												PROJECT No. 24-000479	DRAWING No. DH-SW-6211	MILESTONE	REVISION B



ALL MEASUREMENTS IN MILLIMETRES

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FILE: S:\CALUS PROJECTS\81924\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL AUTOCAD\DWG\1514-SW-6230.DWG LAST SAVED BY: JO KERR PLOTTED: 9 May 25



THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE GROWTH AREA AND GREENFIELD DEVELOPMENT ENGINEERING STANDARDS TECHNICAL MANUAL

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					19/12/24	ISSUED FOR REVIEW
B					27/03/25	CLIENT SUBMISSION
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STATUS
FOR INFORMATION

SCALE AS SHOWN

CLIENT

 **Government of South Australia**
Department for Housing and Urban Development

PROJECT

SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS


DISCLAIMER
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DRAWING TITLE			
TYPICAL POND/WETLAND EDGE TREATMENTS			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-SW-6230		B

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 10-63mm SIZE) AND FREE FROM SILT/CLAY FINES OR OTHER DELETERIOUS MATTER, OR AS SPECIFIED IN THE PAVEMENT MANUFACTURER'S TECHNICAL SPECIFICATION.
3. NON-WOVEN GEOTEXTILE FILTER MEDIA NOT TO BE PLACED BETWEEN ANY FILTER LAYERS. IMPERVIOUS LINER MAY BE REQUIRED SUBJECT TO SOIL TESTING REQUIREMENTS IN ACCORDANCE WITH THE 'WATER SENSITIVE URBAN DESIGN TECHNICAL GUIDELINES' (WATER BY DESIGN).
4. SUB-GRADE TO BE RIPPED/ HARROWED PRIOR TO PLACEMENT OF GEOTEXTILE FILTER.
5. WHERE POSSIBLE, ANY RUNOFF DIRECTED TO POROUS PAVEMENTS SHALL BE PRE-TREATED TO REMOVE COARSE TO MEDIUM SEDIMENTS.
6. REFER TO MANUFACTURE'S SPECIFICATION FOR MAXIMUM TRAFFIC LOADING.
7. UNDER-DRAINAGE - SLOTTED PVC PIPE (uPVC OR SIMILAR TO AS2439.1) OR APPROVED EQUIVALENT, 0.5% MINIMUM GRADE, INSTALLED AT 1500mm MAXIMUM CENTRES. DIAMETER TYPICALLY 100-500mm. PIPE JOINTS SHOULD BE GLUED WITH PLUMBING CEMENT. UNDER-DRAINAGE PIPE SHALL BE SEALED INTO PITS USING GROUT OR OTHER APPROVED WATERTIGHT SEAL. 50mm DRAINAGE LAYER (FINE AGGREGATE) COVER OVER SLOTTED PIPE.
8. POROUS PAVEMENT CAN PROVIDE AN ALTERNATIVE TO CONVENTIONAL IMPERMEABLE PAVEMENT IN LOCATIONS SUCH AS COMMERCIAL CAR PARK BAYS, RESIDENTIAL OR LIGHT COMMERCIAL DRIVEWAYS, INDUSTRIAL STORAGE AREAS OR LOADING ZONES, FOOTPATHS, CYCLEWAYS, PARKING PADS (E.G. MAINTENANCE ACCESS) AND TREE PIT SURROUNDS. THE FOLLOWING AREAS, HOWEVER, ARE NOT SUITABLE FOR PERMEABLE PAVING SYSTEMS:
 - WHERE A WATER TABLE IS LOCATED WITHIN 2m OF THE PROPOSED PAVEMENT SURFACE.
 - AREAS WITH HIGH TRAFFIC VOLUMES OR WITH REGULAR HEAVY VEHICLE TRAFFIC.
 - LOCATIONS WITH CLAY SOILS OR SOILS WITH A HYDRAULIC CONDUCTIVITY OF LESS THAN 0.36mm/hr.
 - AREAS WHERE IMPERMEABLE ROCK IS LOCATED WITHIN 2m OF THE PROPOSED PAVEMENT SURFACE.
 - LOCATIONS SUBJECT TO RUN-OFF WITH A HIGH SEDIMENT LOAD.
9. ALL DIMENSIONS IN MILLIMETRES UNLESS SPECIFIED OTHERWISE.
10. REFER PROJECT DRAWINGS FOR ALL DIMENSIONS, SPECIFICATIONS AND MATERIAL SELECTION.

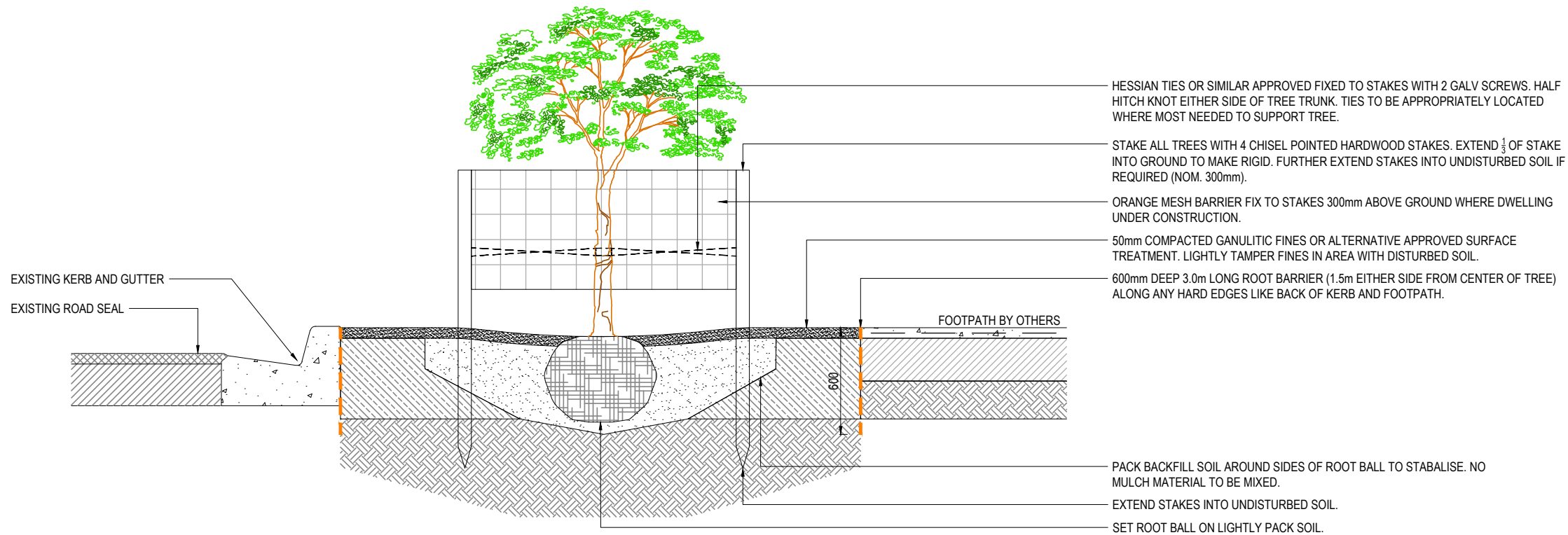


ALL MEASUREMENTS IN MILLIMETRES

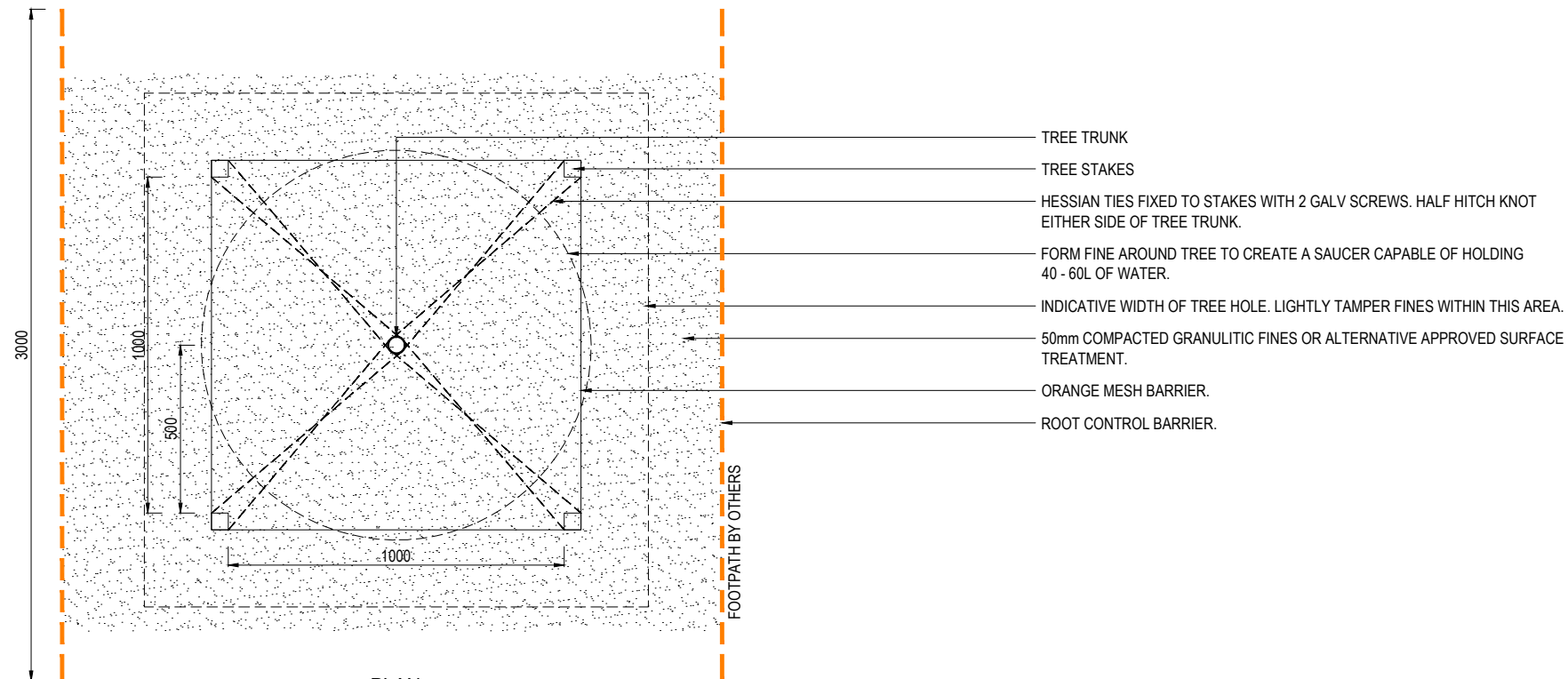
REVISIONS	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	<div><div>Government of South Australia</div><div>Department for Housing and Urban Development</div></div>	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY.	DRAWING TITLE PORUS PAVEMENT – TYPICAL SECTION								
	A				19/12/24							ISSUED FOR REVIEW	FOR INFORMATION				PROJECT No. 24-000479	DRAWING No. DH-SW-6310	MILESTONE B	REVISION B
	B				27/03/25							CLIENT SUBMISSION								

FILE: S:\CAL\05 PROJECTS\SYD\24\24-000479 - GROWTH AREA ENGINEERING STANDARDS\06 MODEL\AUTOCAD\CIVIL\DH-SW-63\10.DWG LAST SAVED BY: JO KERR PLOTTED: 9-May-25

FILE:VEGETATION LOCAL BAYMOUNT CALIB. PROJECTS\970424\04\19 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL AUTOCAD\DWG\LS-7000.DWG LAST SAVED BY: AROY PLOTTED: 8-May-25



SECTION



PLAN

TYPICAL TREE PLANTING - VERGE
NON-IRRIGATED

NOTES:

- ORANGE MESH BARRIER ONLY REQUIRED WHEN PROPERTIES ARE UNDER CONSTRUCTION.
- VERGES UNDER 1.0m TO BE EXCAVATED TO A DEPTH OF 1m x 3m TO ALLOW ROOT DEVELOPMENT.
- EXCAVATE ENTIRE TREE PIT - EXISTING SOIL TO BE MADE FRIABLE AND REPLACE BACK WITHIN EXCAVATED AREA.
- LIGHTLY TAMPER SOIL SO NOT TO COMPACT BUT ENOUGH TO REDUCE SHRINKAGE.
- FORM WATERING BERM AROUND TREE CAPABLE TO HOLD 40 - 60L OF WATER. WATER INDIRECTLY TO SETTLE FILL ADJUST FILL AS REQUIRED.
- ADD TERRACOTTEM OR SIMILAR APPROVED AS PER MANUFACTURERS SPECIFICATION TO ALL TREES.
- WHERE TREE LOCATED WITHIN 1.0m OF HARD SURFACE SUCH AS FOOTPATHS, KERB OR SEP. 600mm DEEP ROOT BARRIER TO BE INSTALLED 1.5m EITHER SIDE OF CENTRE OF TREE.
- WHERE TREE ARE PLANTED ADJACENT TO SIDE FENCELINES, ROOT BARRIER MUST BE INSTALLED 1.5m EITHER SIDE OF TREE.
- TERRAWELL TREE GUARD CAN BE INSTALLED TO NON-IRRIGATED TREES AS AN ALTERNATIVE TO MULCH BOWL.
- BACKFILL AND PLANTING AROUND TREEBALL TO CONSIST OF APPROPRIATE PLANTING MATERIAL

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A					21/02/25	ISSUED FOR REVIEW
B					04/04/25	CLIENT SUBMISSION
C					08/05/25	CLIENT SUBMISSION

STATUS
FOR INFORMATION

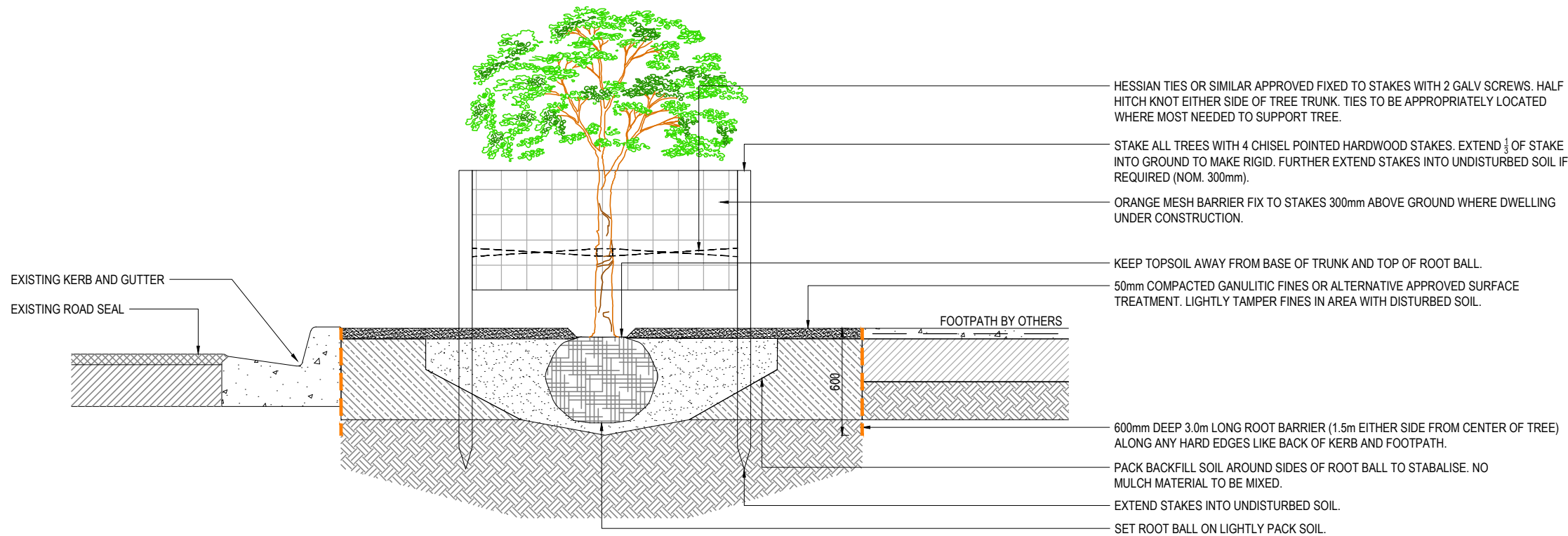
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CLIENT
 Government of South Australia Department for Housing and Urban Development

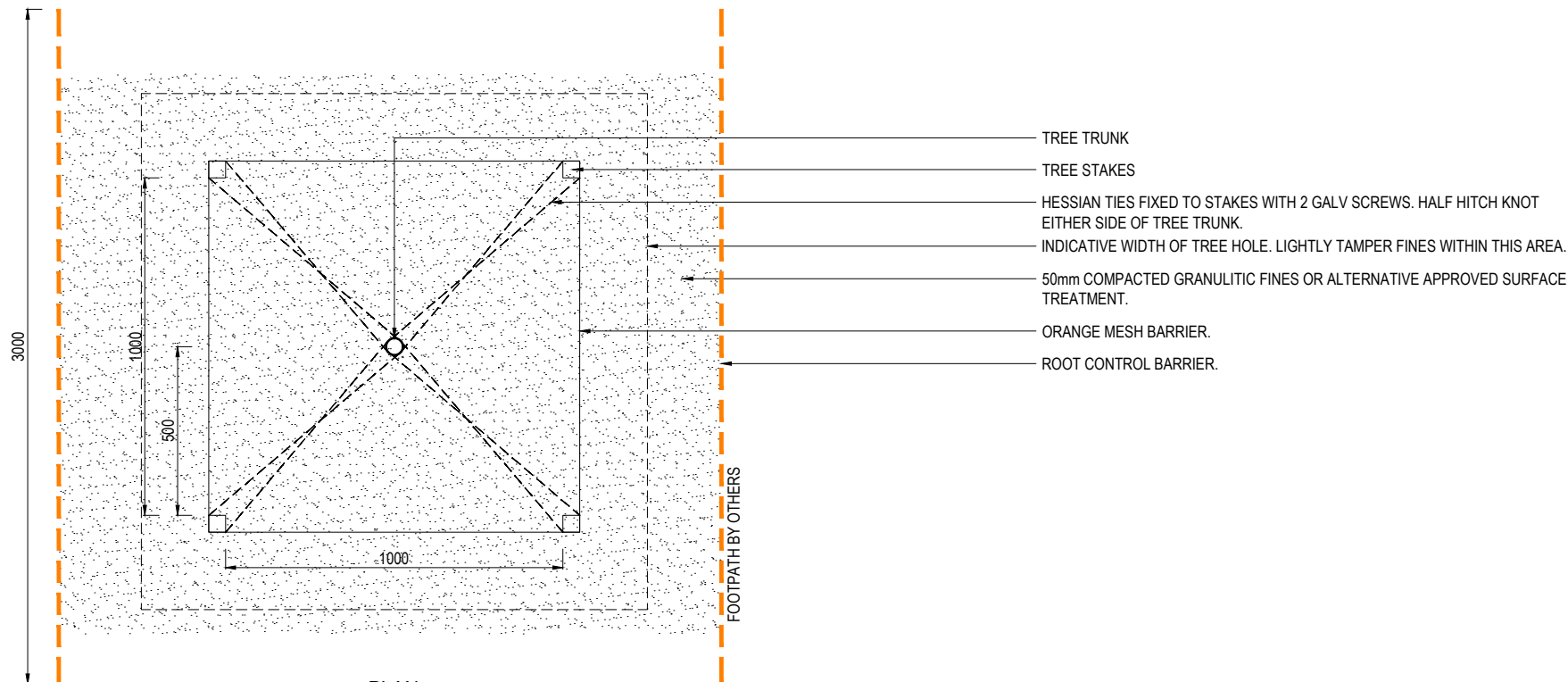
PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
TYPICAL TREE PLANTING VERGE DETAIL (NON IRRIGATED)			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-LS-7000		C

FILE:VEGETATION LOCAL BATHING DETAILS - GROWTH AREA ENGINEERING STANDARDS.dwg - MODEL AUTOCAD 2014 LAYOUTS - 7001 DWG LAST SAVED BY: AROY PLOTTED: 8 May 25



SECTION



PLAN

TYPICAL TREE PLANTING - VERGE
IRRIGATED

NOTES:

- ORANGE MESH BARRIER ONLY REQUIRED WHEN PROPERTIES ARE UNDER CONSTRUCTION.
- VERGES UNDER 1.0m TO BE EXCAVATED TO A DEPTH OF 1m x 3m TO ALLOW ROOT DEVELOPMENT.
- EXCAVATE ENTIRE TREE PIT - EXISTING SOIL TO BE MADE FRIABLE AND REPLACE BACK WITHIN EXCAVATED AREA.
- LIGHTLY TAMPER SOIL SO NOT TO COMPACT BUT ENOUGH TO REDUCE SHRINKAGE.
- FORM WATERING BERM AROUND TREE CAPABLE TO HOLD 40 - 60L OF WATER. WATER INDIRECTLY TO SETTLE FILL ADJUST FILL AS REQUIRED.
- ADD TERRACOTTEM OR SIMILAR APPROVED AS PER MANUFACTURERS SPECIFICATION TO ALL TREES.
- WHERE TREE LOCATED WITHIN 1.0m OF HARD SURFACE SUCH AS FOOTPATHS, KERB OR SEP. 600mm DEEP ROOT BARRIER TO BE INSTALLED 1.5m EITHER SIDE OF CENTRE OF TREE.
- WHERE TREE ARE PLANTED ADJACENT TO SIDE FENCELINES, ROOT BARRIER MUST BE INSTALLED 1.5m EITHER SIDE OF TREE.
- TERRAWELL TREE GUARD CAN BE INSTALLED TO NON-IRRIGATED TREES AS AN ALTERNATIVE TO MULCH BOWL.
- BACKFILL AND PLANTING AROUND TREEBALL TO CONSIST OF APPROPRIATE PLANTING MATERIAL

ALL MEASUREMENTS IN MILLIMETRES

AMENDMENT DETAILS	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	
	A					21/02/25	ISSUED FOR REVIEW
	B					04/04/25	CLIENT SUBMISSION
	C					08/05/25	CLIENT SUBMISSION

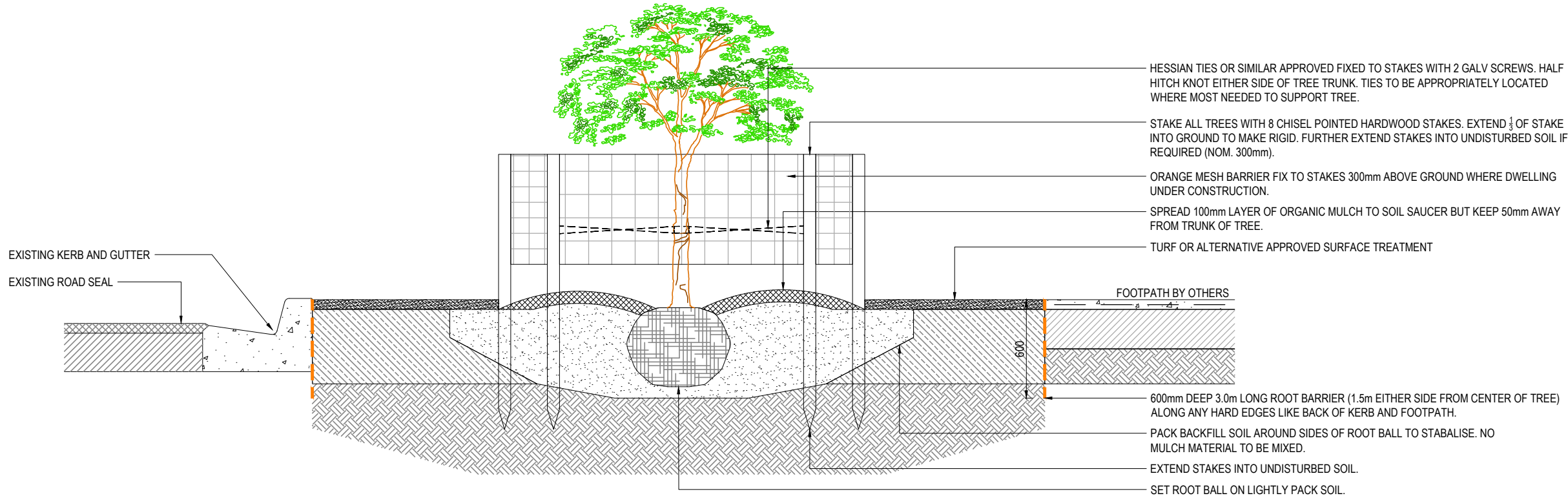
STATUS
FOR INFORMATION

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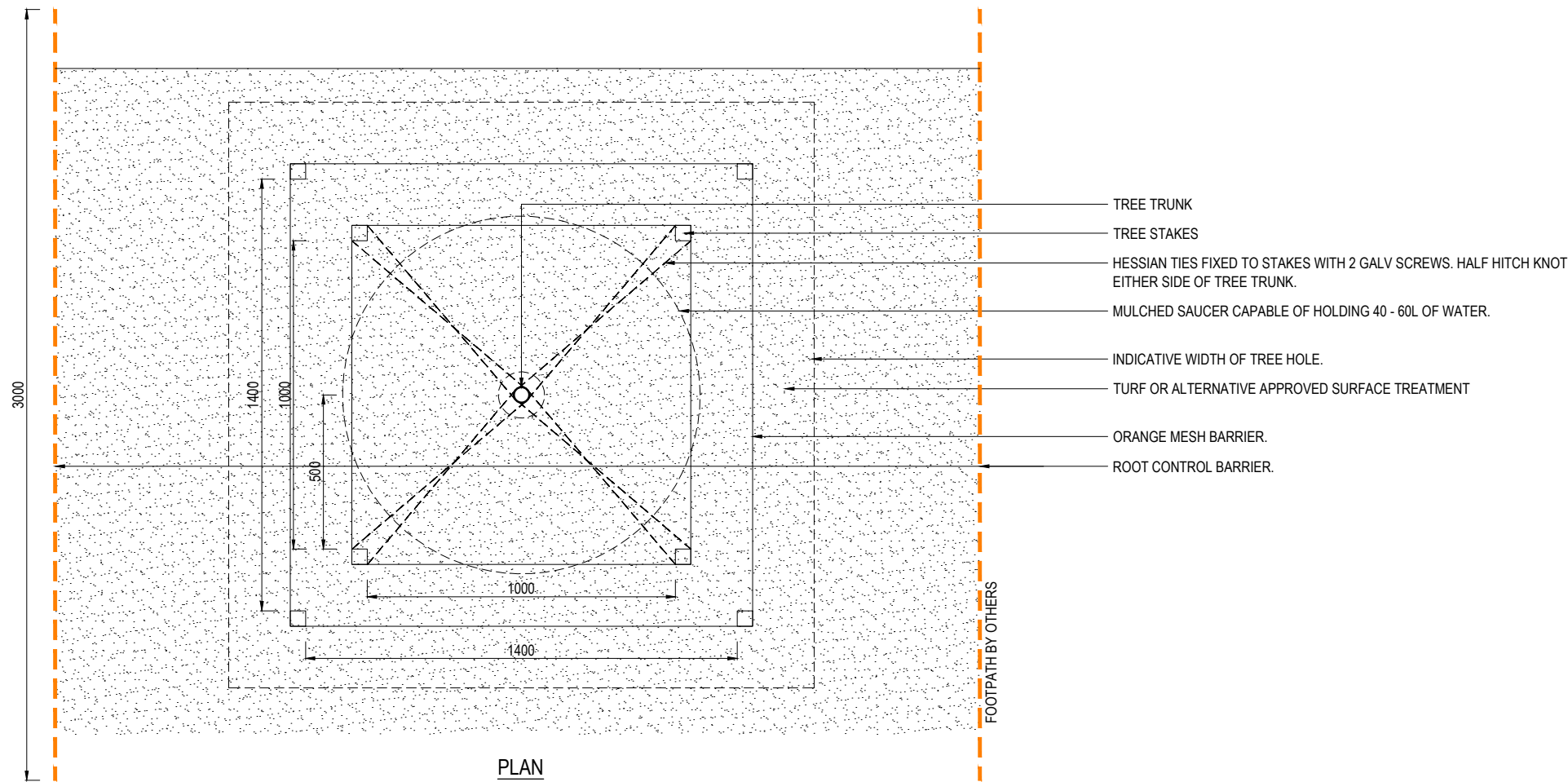
CLIENT
 Government of South Australia Department for Housing and Urban Development

PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE			
TYPICAL TREE PLANTING VERGE DETAIL (IRRIGATED)			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-LS-7001		C



SECTION



PLAN
TYPICAL TREE PLANTING - VERGE
DOUBLE BUNTING

NOTES:

- ORANGE MESH BARRIER ONLY REQUIRED WHEN PROPERTIES ARE UNDER CONSTRUCTION.
- VERGES UNDER 1.0m TO BE EXCAVATED TO A DEPTH OF 1m x 3m TO ALLOW ROOT DEVELOPMENT.
- EXCAVATE ENTIRE TREE PIT - EXISTING SOIL TO BE MADE FRIABLE AND REPLACE BACK WITHIN EXCAVATED AREA.
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- ADD TERRACOTTEM OR SIMILAR APPROVED AS PER MANUFACTURERS SPECIFICATION TO ALL TREES.
- WHERE TREE LOCATED WITHIN 1.0m OF HARD SURFACE SUCH AS FOOTPATHS, KERB OR SEP. 600mm DEEP ROOT BARRIER TO BE INSTALLED 1.5m EITHER SIDE OF CENTRE OF TREE.
- WHERE TREE ARE PLANTED ADJACENT TO SIDE FENCELINES, ROOT BARRIER MUST BE INSTALLED 1.5m EITHER SIDE OF TREE.
- TERRAWELL TREE GUARD CAN BE INSTALLED TO NON-IRRIGATED TREES AS AN ALTERNATIVE TO MULCH BOWL.
- BACKFILL AND PLANTING AROUND TREEBALL TO CONSIST OF APPROPRIATE PLANTING MATERIAL.

ALL MEASUREMENTS IN MILLIMETRES

FILE:VEGETATION LOCAL BAYMONTICALUG PROJECTS\SD\24-000479 - GROWTH AREA ENGINEERING STANDARDS\6 MODEL\AUTOCAD\DWG\LS-7002.DWG LAST SAVED BY: AROY PLOTTED: 8-May-25

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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B					04/04/25	CLIENT SUBMISSION
C					08/05/25	CLIENT SUBMISSION

STATUS
FOR INFORMATION

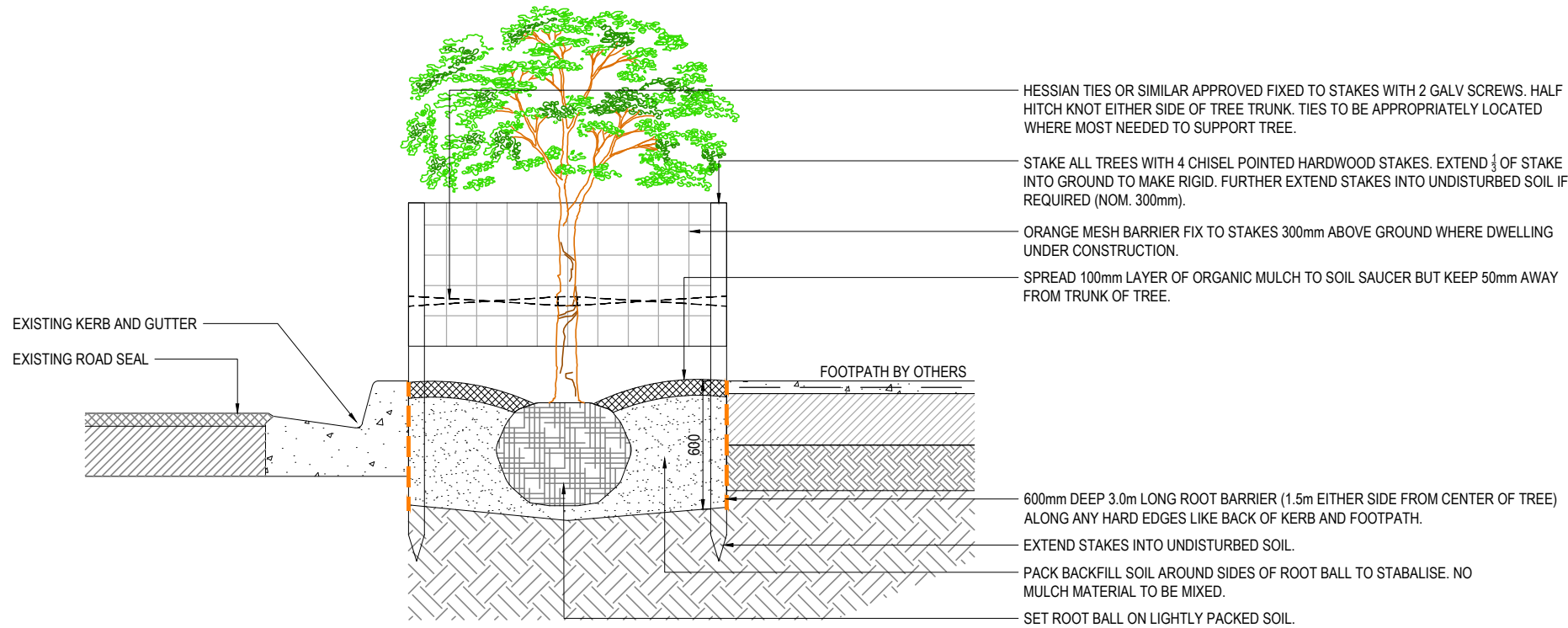
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CLIENT
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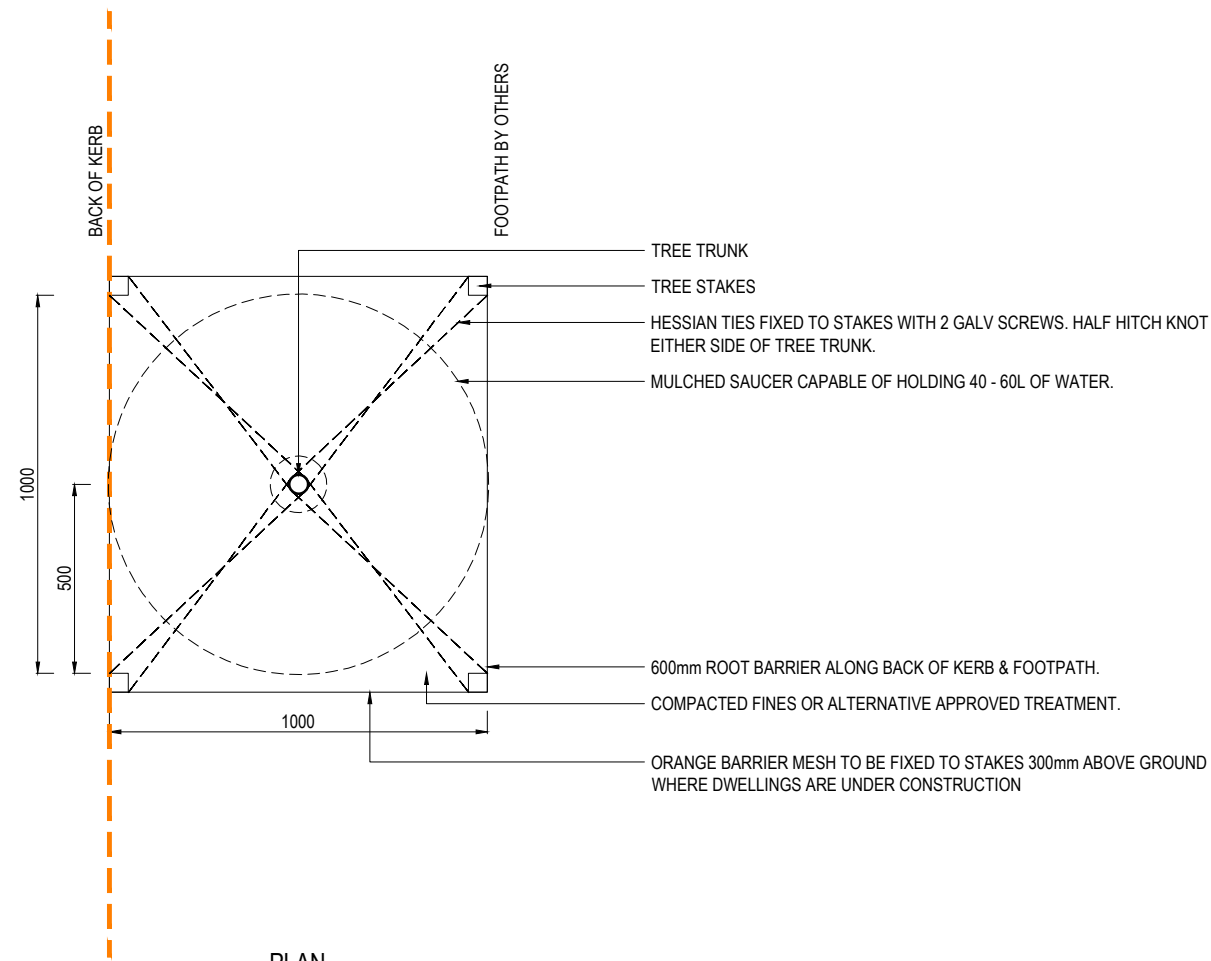
PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
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DRAWING TITLE			
TYPICAL TREE PLANTING VERGE DETAIL (DOUBLE BUNTING)			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-LS-7002		C

FILE: S:\CAUS PROJECTS\91024\24-00479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL\AUTOCAD\DWG\LS-7003.DWG, LAST SAVED BY: A ROY, PLOTTED: 3 May 25



SECTION



PLAN

TYPICAL TREE PLANTING - NARROW VERGE

NOTES:

1. ORANGE MESH BARRIER ONLY REQUIRED WHEN PROPERTIES ARE UNDER CONSTRUCTION.
2. VERGES UNDER 1.0m TO BE EXCAVATED TO A DEPTH OF 1m x 3m TO ALLOW ROOT DEVELOPMENT.
3. EXCAVATE ENTIRE TREE PIT - EXISTING SOIL TO BE MADE FRIABLE AND REPLACE BACK WITHIN EXCAVATED AREA.
4. LIGHTLY TAMPER SOIL SO NOT TO COMPACT BUT ENOUGH TO REDUCE SHRINKAGE.
5. FORM WATERING BERM AROUND TREE CAPABLE TO HOLD 40 - 60L OF WATER. WATER INDIRECTLY TO SETTLE FILL ADJUST FILL AS REQUIRED.
6. ADD TERRACOTTEM OR SIMILAR APPROVED AS PER MANUFACTURERS SPECIFICATION TO ALL TREES.
7. WHERE TREE LOCATED WITHIN 1.0m OF HARD SURFACE SUCH AS FOOTPATHS, KERB OR SEP: 600mm DEEP ROOT BARRIER TO BE INSTALLED 1.5m EITHER SIDE OF CENTRE OF TREE.
8. WHERE TREE ARE PLANTED ADJACENT TO SIDE FENCELINES, ROOT BARRIER MUST BE INSTALLED 1.5m EITHER SIDE OF TREE.
9. TERRAWELL TREE GUARD CAN BE INSTALLED TO NON-IRRIGATED TREES AS AN ALTERNATIVE TO MULCH BOWL.
10. BACKFILL AND PLANTING AROUND TREEBALL TO CONSIST OF APPROPRIATE PLANTING MATERIAL.

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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B					04/04/25	CLIENT SUBMISSION
C					06/05/25	CLIENT SUBMISSION

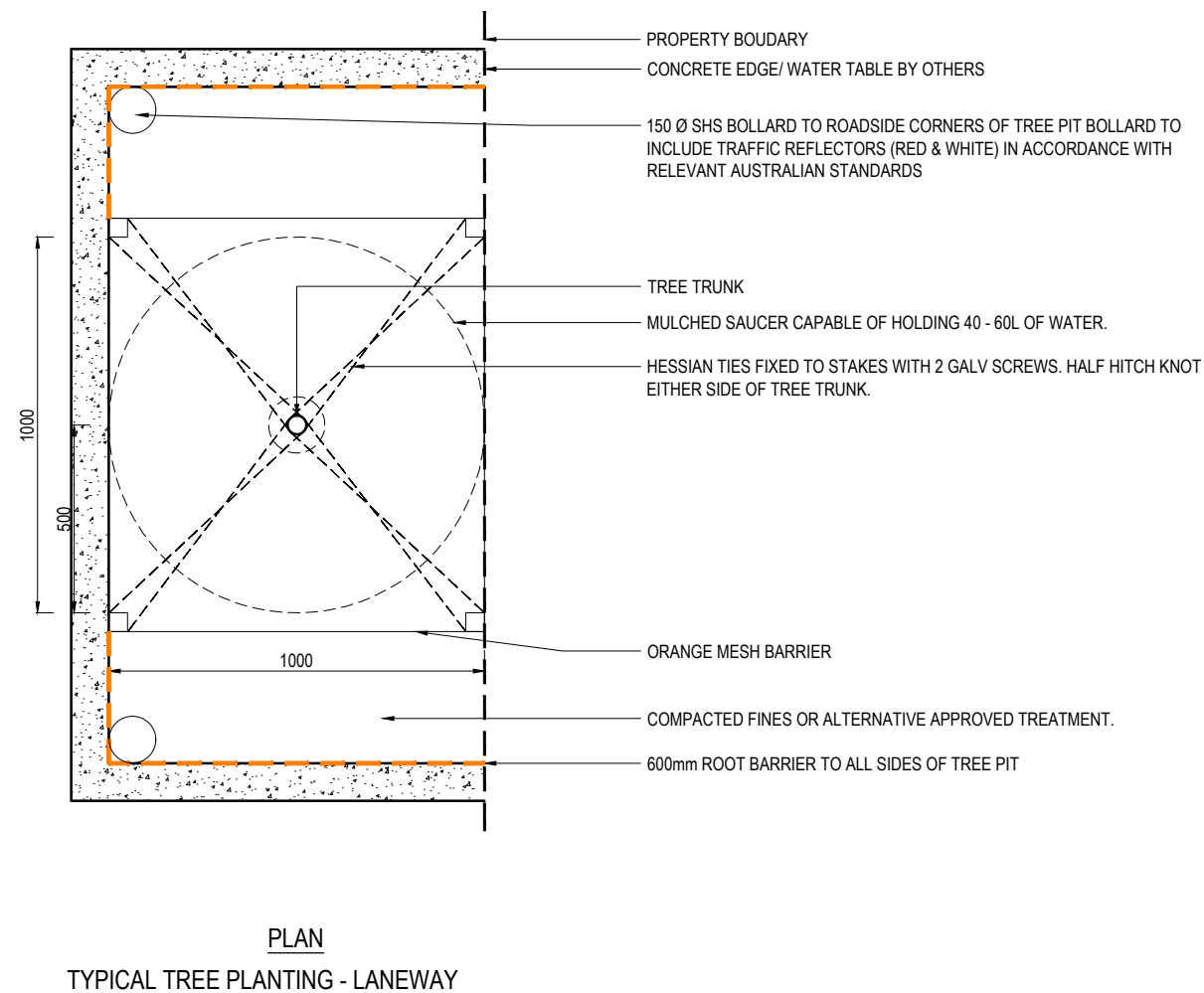
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CLIENT
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PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
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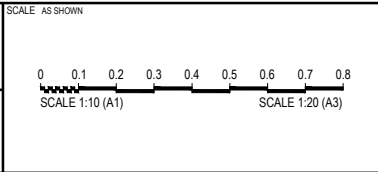
DRAWING TITLE			
TYPICAL TREE PLANTING VERGE DETAIL (NARROW VERGE)			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-LS-7003		C



- ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE		DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
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	B					04/04/25	CLIENT SUBMISSION
	C					08/05/25	CLIENT SUBMISSION

STATUS	FOR INFORMATION

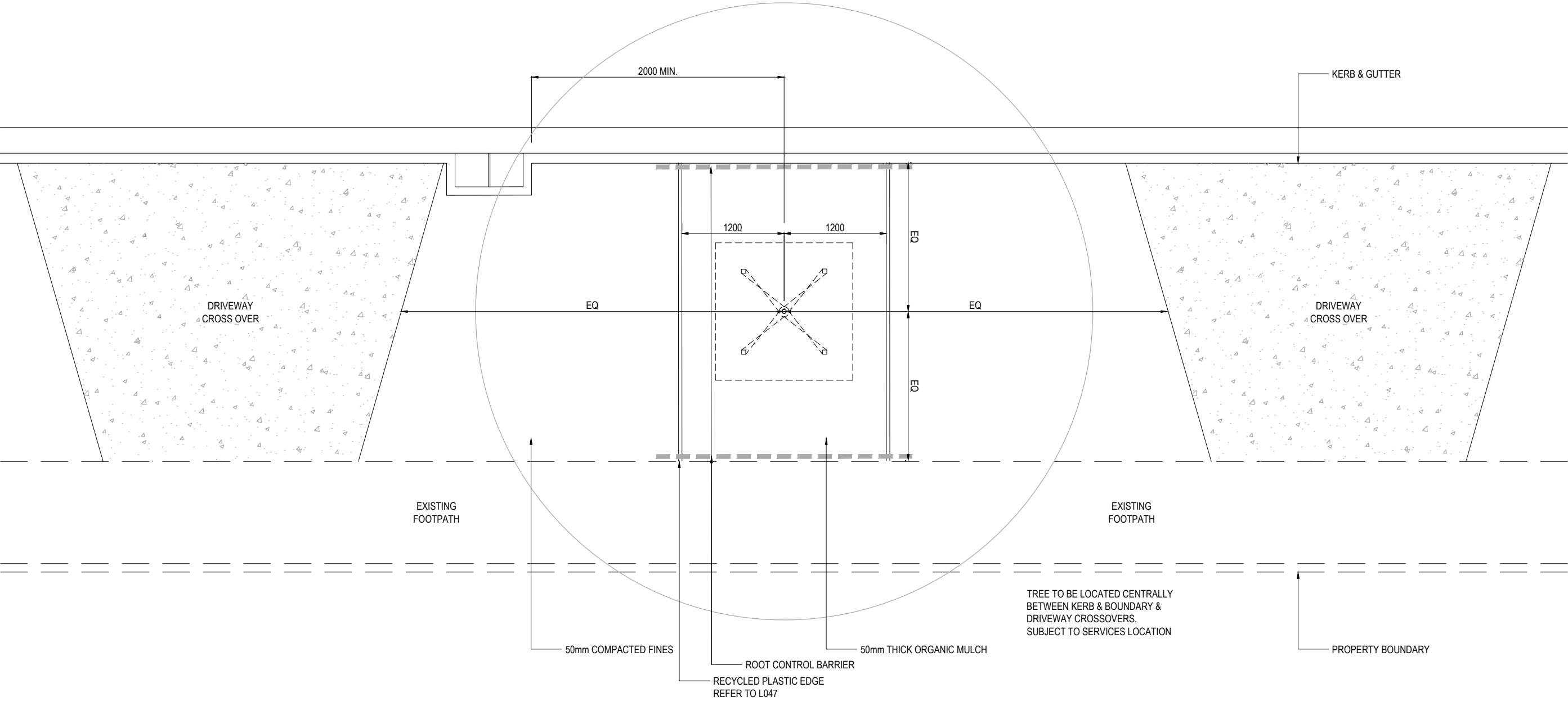


PROJECT
**SOUTH AUSTRALIA GROWTH AREAS
 ENGINEERING STANDARDS**

DISCLAIMER
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 PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO
 NOT SCALE. **NOT FOR CONSTRUCTION UNLESS STAMPED BY
 CERTIFYING AUTHORITY**

DRAWING TITLE TYPICAL TREE PLANTING DETAIL (LANE WAY)			
PROJECT No.	DRAWING No.	MILESTONE	REVISION
24-000479	DH-LS-7004		C

FILE: E:\EGRAC\LOCAL\BATHURST\LOCAL\BATHURST\PROJECTS\2024\2400479 - GROWTH AREA ENGINEERING STANDARDS\6. MODEL AUTOCAD\DWG\LS-7005.DWG LAST SAVED BY: AROY PLOTTED: 8-May-25



STREET TREE PLANTING PLAN

NOTE:
1. 600mm DEEP ROOT CONTROL BARRIER TO BE INSTALLED

ALL MEASUREMENTS IN MILLIMETRES

	FIRST ISSUE	DESIGN	DRAWN	CHECK	APPD.	DATE	AMENDMENT DETAILS
A						21/02/25	ISSUED FOR REVIEW
B						04/04/25	CLIENT SUBMISSION
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FOR INFORMATION

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CLIENT
 Government of South Australia Department for Housing and Urban Development

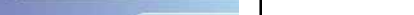

PROJECT
SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS
DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY. DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY

DRAWING TITLE
STREET TREE PLANTING DETAIL
PROJECT No. 24-000479
DRAWING No. DH-LS-7005
MILESTONE
REVISION C



1. 600mm DEEP ROOT CONTROL BARRIER TO BE INSTALLED WHERE DISTANCE TO KERB >1000mm

ALL MEASUREMENTS IN MILLIMETRES

FIRST ISSUE	DESIGN	DRAWN	CHECK	APPRO.	DATE	AMENDMENT DETAILS	STATUS	SCALE AS SHOWN	CLIENT	PROJECT SOUTH AUSTRALIA GROWTH AREAS ENGINEERING STANDARDS	DRAWING TITLE STREET TREE PLANTING DETAIL (PATH AGAINST KERB)			
	A	B	C											
A M E N D M E N T S	A				21/03/25	ISSUED FOR REVIEW	FOR INFORMATION			DISCLAIMER ALL DIMENSIONS TO BE CHECKED ON SITE BY CONTRACTOR PRIOR TO CONSTRUCTION. USE WRITTEN DIMENSIONS ONLY, DO NOT SCALE. NOT FOR CONSTRUCTION UNLESS STAMPED BY CERTIFYING AUTHORITY	PROJECT No. 24-000479	DRAWING No. DH-LS-7007	MILESTONE	REVISION C
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	C				08/05/25	CLIENT SUBMISSION								