

Applicant's Details

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953 South Coast Hwy, PO Box 183 Denmark WA 6333 Tel No. (08) 9848 0300 Email: <u>enquiries@denmark.wa.gov.au</u> Website: <u>www.denmark.wa.gov.au</u>

Application for a Permit to Undertake Crossover Construction Works within a Council road reserve

Application No.: Yr/No._____

Owner Owner	of Property ctor				
Date:					
Postal Address:					
Phone:		_Email:			
Crossover Type:	: Residential / Com	mercial			
Contractors De	<u>tails</u>				
Contractors Nan	1e:				
Phone:					
Email:					
Correspondence	e Required to Builde	er? Yes	/ No		
Crossover Deta	<u>iils</u>				
Lot No:	Street No:	Street:			
Location:					
Type of Constru					
Bitumen	Concrete	Brick Paved	Gravel	Other:	
		Diagram of crossove	er location on the	<u>e block</u>	

Important Notes

- No Crossover shall be installed without the issue of a Crossover Permit.
- A Crossover application fee in accordance with the Shire of Denmark fees and charges is required to be paid prior to the issue of a Crossover Permit.
- The Shire of Denmark has the power under the Local Government Act 1995, as amended, to make good any nonstandard Crossover at the applicant's expense.
- The permit for the construction of the crossover is only valid for a period of twelve months from date of permit issue.
- Gravel Crossovers constructed without stormwater pipes are not eligible for a subsidy.
- To receive a subsidy, the completed application form must be lodged at least three working days before work commences and the constructed Crossover must meet the Shire of Denmark's minimum requirements.
- Culvert pipes are to be reinforced concrete or Blackmax with a minimum pipe size of 300mm.
- No subsidy will be paid without Council receiving a receipt of payment for the Crossover application.
- Crossover subsidies are to be paid directly to the landowner.
- Properties are only entitled to one subsidy payment. i.e., 2nd crossovers to a property are ineligible for subsidy payment.
- Gravel crossovers can only be constructed where the adjoining road is gravel.
- If the crossover contains native vegetation:
 - a. The applicant must demonstrate that a site has been chosen to avoid or minimise the clearing of native vegetation.
 - b. If the site contains significant flora, the applicant must demonstrate that they have approvals for the removal of significant flora.
- Existing footpaths take precedence over new Crossovers but may require upgrading to specification
- Please read and understand the crossover specifications included in this document, if you have any queries contact the Shire of Denmark's Engineering department.

I hereby certify that this application contains a true and accurate description of the proposed works. All works <u>will be carried out</u> in accordance with the information contained in this application, legislative & statutory requirements and to any other conditions or specifications imposed by the Director of Assets & Sustainable Development.

Endorsed by (Applicant)



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Application for Crossover Subsidy

To be lodged in conjunction with Application for Permit to undertake Works within a Council Road Reserve. Prior to commencement of works.

Subsidy Payment

The subsidy shall be paid only if the work complies with all specifications as listed. The applicable crossover subsidy is based on the Council's current fees and charges schedule.

- No Crossover shall be installed without the issue of a Crossover Permit.
- No subsidy will be paid without the Shire of Denmark receiving a receipt of payment for the Crossover.
- The Shire of Denmark has the power under the Local Government Act 1995, as amended, to make good any non-standard Crossover at the property owner's expense.
- Gravel Crossovers constructed without stormwater pipes are not eligible for a subsidy.
- The permit for the construction of the crossover is only valid for a period of twelve months from date of permit issue.
- Existing footpaths take precedence over new Crossovers but may require upgrading to specification
- Crossovers are to be designed and constructed in accordance with the Shire of Denmark's standard drawings ES-CR-01, ES-CR-03, ES-CR-04, ES-RO-08 and headwall construction diagram. These drawings are attached in this application form.
- The maximum crossover subsidy for the 2023/2024 financial year is as follows:

Constructed without stormwater pipe:	\$295.00
Constructed with stormwater pipe- unsealed:	\$429.00
Constructed with stormwater pipe- sealed:	\$873.00

Payee Details

Owner Name			
Property Address			
Phone:	Fax:	Email:	

Subsidy Payment Information

BSB	Account Number	
Account Name		
Signature:		
Date:		

Please be advised that I intend to have a crossover constructed to the above address and hereby wish to apply for a subsidy.

The crossover is _____ metres wide and constructed from Concrete / Hot Mix / Sprayed Bitumen / Brick paving / Gravel (underline applicable material to be used).

I declare that I have not previously made application to Council for a subsidy at the abovementioned address for a sealed crossover.

Office Use Only

Assessment No:	Application No:								
Site Assessment		Date / Comments							
Application and payment lodged	Yes No								
Application approved by Engineer	Yes No								
On-site location approved	Yes No								
Construction completed	Yes No								
Inspected by:	Sign:	Date:							

Subsidy Payment

	Constructed without storm	\$295.0	\$295.00				
	Constructed with stormwa	l	\$429.00				
(Refund a	Constructed with stormwa	Property & Services	\$873.00 s - Crossover")				
Appro	ved By: Name						
	Name	9	Position				
Amou	nt: \$		G/Ledger Co	de:	1228382		
<u>Subsi</u>	dy Paid						
Amou	nt: <u>\$</u>	E.F.T No:		Date:			
Credit	or No:						

Specification for the construction of bitumen crossings in road reserves from the constructed bitumen road to the property boundary.

Definition

A vehicular crossover is defined as a crossing area for vehicular access between the road and private property boundary within Council's Road reserve.

Application and Construction Process

All crossover construction works require a construction permit. This permit is the Crossover Application form. Once completed, it must be sent to the Shire of Denmark and accompanied with the permit / supervision fee. Construction must not commence until the fee is paid and at least 3 days' notice is given. During this time, an officer from the Council's Infrastructure Services department will contact the applicant to discuss the proposed location of the crossover with yourself/contractor.

The crossover construction permits are only valid for 12 months from the date of receipt of payment. Failure to construct the crossover during this period will require a new application and fee to be paid. Building and Planning License approvals do not constitute approval for the construction of a crossover or exempt from payment of a permit fee.

In general, you must contact the Council at least 4 times:

- 1. Make application and pay the permit fee.
- 2. Advise when formwork is in place for inspection.
- 3. Request inspection when the work is fully completed.
- 4. Send a copy of the contractor's crossover receipt for subsidy calculation and payment.

You may contact the Shire of Denmark at any time should you require advice, but in order to comply with our requirements and maintain a consistent standard the minimum number of times to contact us are shown above.

Main Roads WA has the care and responsibility of South Coast Highway and The Denmark-Mt Barker Road and accordingly applications for crossovers along these highways must be made through them. You can call a local MRWA representative on 9892 0555. You may still be subsidised by the Council on completion of the crossover to MRWA requirements, but only on presentation of the contractor's receipt to the Council.

Crossover Guidelines

- Crossovers at residential properties are to be constructed to a minimum and maximum width of 3m and 6.25m respectively. Crossovers at commercial properties are to be constructed to a minimum and maximum width of 3m and 10m respectively.
- Redundant vehicular crossovers are to be removed and re-vegetated in keeping with the existing surrounds. Redundant crossover openings in streets that are kerbed, are

to be reinstated with new concrete kerbing having the same profile as that which exists, by your contractor, under our supervision.

- The Shire of Denmark has the discretion to remove or modify any vehicular crossover that is not constructed or maintained to Council's satisfaction, and if not rectified within 21 days of due notice being issued, commence to remove or modify the crossover at your expense.
- The public shall be protected from injury during construction with the use warning signs, barriers and flashing signals overnight.
- No Crossover is to be detrimental to neighbouring properties. That is, not to crossextend property lines. Storm water runoff is to flow away from properties.
- Protection of works and the public shall be in compliance with the Australian Standards-1742.3 Traffic Control Devices For Works On Roads.
- Damage that may occur to the City's facilities, or to private property, during the course of or arising from works shall be the responsibility of the property owner who shall be held responsible for the repair, replacement, and legal claims

MATERIALS

- Crossovers can only be constructed in gravel, bitumen seal, concrete or brick paving. Sealed crossovers (i.e. bitumen seal, concrete, brick paving) are to be constructed if the existing road frontage is a sealed road. Gravel crossovers are only allowed to be constructed on gravel roads.
- Refer to drawing ES-CR-01 and drawing ES-CR-04 for bitumen and gravel crossovers respectively.
- Crossovers constructed in gravel must comply with the general shape and specification as that for a bitumen sealed crossover. A permit is still required and timber edging to define and contain the gravel is required.
- Concrete crossovers cannot be coloured, without the approval of the Council's Infrastructure Services department. They should have a smooth brushed surface.

Bitumen Seal

- Refer to drawing ES-CR-01.
- A base course of 200mm compacted gravel over a sound sub-grade is required. If sub-grade soggy or spongy, then it must be replaced with at least 200mm of limestone.
- For commercial crossovers, a base course of 300mm compacted gravel is required. Similarly, if the sub-grade is poor, then 200mm of limestone is required. Refer to the drawing for layout dimensions.

• The minimum standard is a 2-coat seal (to Australian Standard) with a sand finish. Washed pea gravel is not permitted as a finished surface.

Concrete

- Refer to drawing ES-CR-01.
- For residential crossovers the minimum thickness of 20mpa concrete is 100mm, with a minimum thickness of 150mm at the bund or toe at the kerb line. If the sub-grade is poor, then a minimum of 150mm of compacted limestone is required.
- For commercial crossovers the minimum thickness of 25mpa concrete is 150mm, reinforced with F62 mesh. Similarly, if the sub-grade is poor, then a minimum of 150mm of compacted limestone is required.
- The minimum standard is a non-slip brushed surface (lateral) in the direction of the road travel.

Brick Paving

- Refer to drawing ES-CR-01.
- The brick paver colours must be approved by the Shire of Denmark and be 60mm thick trafficable types. They must be laid in an interlocking herring-bone manner with the edge pavers constrained by a concrete base and lip. All other pavers are to sit on a 20-30mm compacted sand or dust sub-base. If the subgrade is poor, then it must be replaced with a 150mm limestone base. Brick paving is not usually suitable on very steep slopes > 10%.
- The minimum standard is the use of 2 colours only.

Gravel Crossover

- Refer to drawing ES-CR-04 and ES-RO-08.
- Gravel crossover is to be constructed with a minimum width of 3m and maximum of 6m. If required, a concrete pipe culvert of 375mm in diameter would have to be installed with a minimum cover of 300mm.
- The ends of the concrete pipe culvert would have to be surrounded and reinforced with either standard reinforced concrete headwalls or stone pitched headwalls. Please refer to the attached headwall construction diagram for further details.
- In the event a concrete pipe culvert is installed, two rural guide posts have to be installed to indicate the position of the headwalls of the concrete pipe culvert for the safety of vehicles. The Council's standards for rural guide posts are shown in drawing ES-RO-08.

Pipe Crossings

- If you have an open drain or water course to cross, Council will determine the pipe size required once the site has been inspected following payment of the fee.
- Stormwater pipes for crossovers are not supplied free of charge but can be purchased from local businesses, like hardware stores or earthmoving companies. Odd lengths may incur an additional cutting charge. The usual minimum rural standard is 375mm diameter PVC (Black Max).

Formwork

- Bitumen crossovers are to have jarrah edging positioned flush with the top of the finished surface level. The jarrah edging is to be 150 * 25mm with stakes every 1.2m apart. The tops of the stakes are to be secured to the boards and 25mm below the top of the edging.
- The crossover is to be inspected once the timber edging/formwork is in place for both bitumen and concrete crossover. Once approved on-site, the crossover can then be completed.

One Crossover per property

• There will be no more than 1 crossover to each property unless approval is granted by the Director of Assets & Sustainable Development. The width of the second crossover shall only be 3m wide and will not be subsidised.

Adjoining Properties

• Where two adjoining properties have/will have crossovers abutting, they shall not exceed 5m each in width.

Council Assets

- Where Council's assets such as manhole covers, grates, road edge markers, etc. must be relocated for a crossover, then approval must be granted by the Council's Director of Assets & Sustainable Development. If relocation is possible, then the full cost is fully recoverable from the applicant or property owner. A bond may be requested prior to construction to ensure the work can be done.
- Where a footpath exists, it would normally be replaced with a crossover that would normally blend into the footpath, without leaving any level difference or step to be tripped over. However, clarification would be required in each situation.

Tree Removal

• The removal of trees is generally prohibited unless special circumstances apply. Trees removal requires the approval from Council's Infrastructure & Assets section and Planning / NRM sections and will probably require a replacement tree to be established somewhere else on the verge.

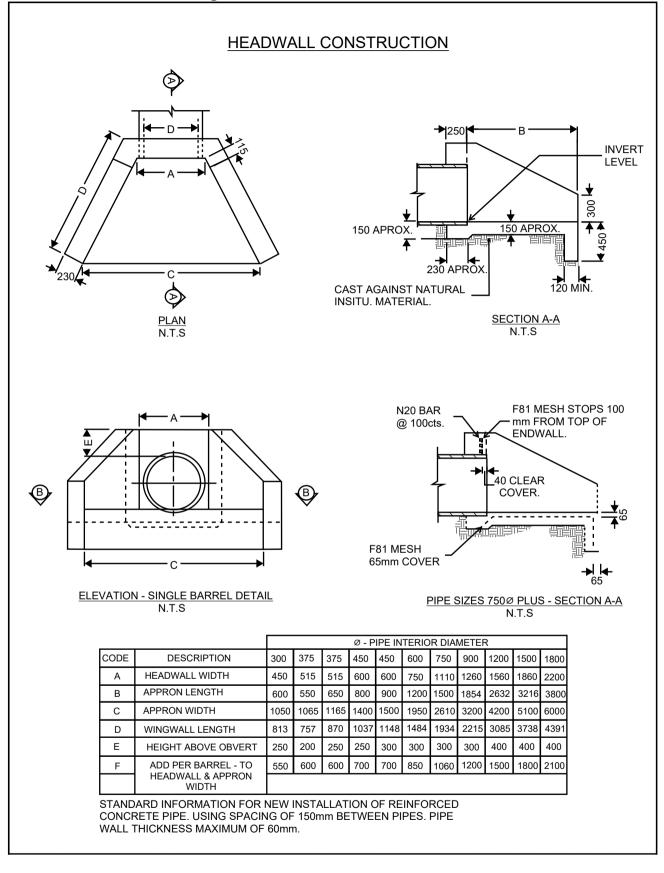
Intersecting Roads

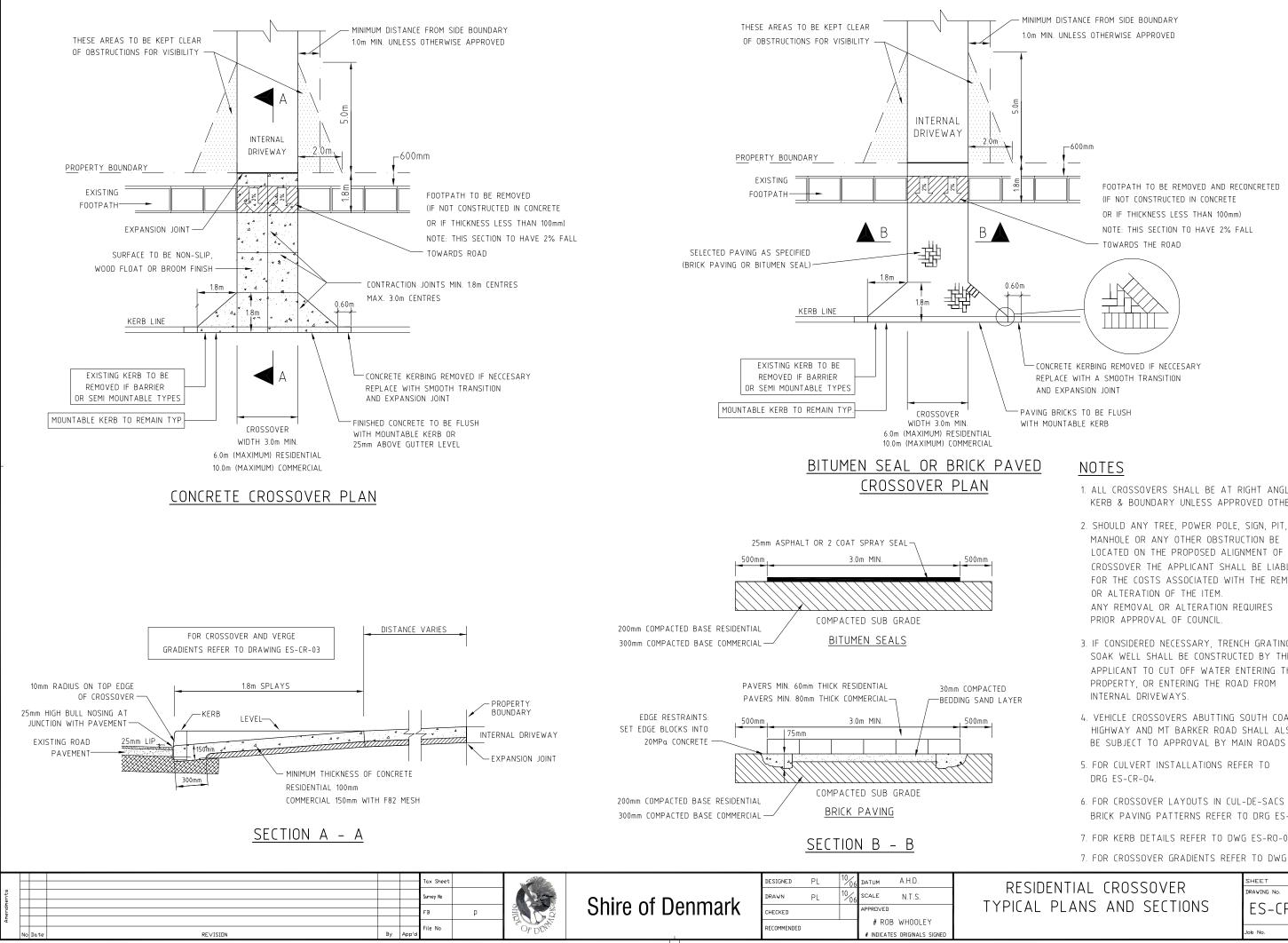
• A crossover cannot be constructed within 6m of the corner boundary of an intersecting road.

Future maintenance

• Future maintenance of the crossover is the responsibility of the property owner. The Shire of Denmark is not responsible for the future maintenance of the crossover.

Headwall Construction Diagram





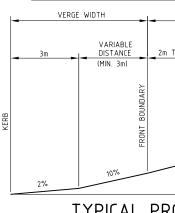
- 1. ALL CROSSOVERS SHALL BE AT RIGHT ANGLES TO THE KERB & BOUNDARY UNLESS APPROVED OTHERWISE.
- MANHOLE OR ANY OTHER OBSTRUCTION BE LOCATED ON THE PROPOSED ALIGNMENT OF THE CROSSOVER THE APPLICANT SHALL BE LIABLE FOR THE COSTS ASSOCIATED WITH THE REMOVAL
- 3. IF CONSIDERED NECESSARY, TRENCH GRATING & SOAK WELL SHALL BE CONSTRUCTED BY THE APPLICANT TO CUT OFF WATER ENTERING THE
- 4. VEHICLE CROSSOVERS ABUTTING SOUTH COAST HIGHWAY AND MT BARKER ROAD SHALL ALSO BE SUBJECT TO APPROVAL BY MAIN ROADS WA.
- 6. FOR CROSSOVER LAYOUTS IN CUL-DE-SACS & APPROVED BRICK PAVING PATTERNS REFER TO DRG ES-CR-02.
- 7. FOR KERB DETAILS REFER TO DWG ES-RO-09.
- 7. FOR CROSSOVER GRADIENTS REFER TO DWG ES-CR-03.

DENTIAL	CROS	SOVER	
PLANS	AND	SECTIONS	

SHEET OF	
DRAWING No.	Δ
ES-CR-01	1
Job No.	

MODIFIED 2% - 10% VERGE GRADING

						VE	RGE W	IDTH	(m)							T THE AF IG SERVIC	. OF
		2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5]			
	1.2	0.19	0.20	0.21	0.26	0.31	0.36	0.41	0.46	0.51	0.56	0.61	0.66				
	1.6	0.24	0.25	0.26	0.31	0.36	0.41	0.46	0.51	0.56	0.61	0.66	0.71				
	2.0	0.29	0.30	0.31	0.36	0.41	0.46	0.51	0.56	0.61	0.66	0.71	0.76				
	2.4	0.35	0.36	0.37	0.45	0.50	0.55	0.60	0.65	0.70	0.75	0.80	0.85				
	2.8	0.41	0.42	0.43	0.54	0.59	0.64	0.69	0.74	0.79	0.84	0.89	0.94				
	3.2	0.46	0.47	0.48	0.63	0.68	0.73	0.78	0.83	0.88	0.93	0.98	1.03				
	3.6	0.52	0.53	0.54	0.72	0.77	0.82	0.87	0.92	0.97	1.02	1.07	1.12				
	4.0	0.58	0.59	0.60	0.81	0.86	0.91	0.96	1.01	1.06	1.11	1.16	1.21	_			
	4.4	0.68	0.69	0.70	0.91	0.96	1.01	1.06	1.11	1.16	1.21	1.26	1.31				
	4.8	0.78	0.79	0.80	1.01	1.06	1.11	1.16	1.21	1.26	1.31	1.36	1.41	-			
	5.2	0.88	0.89	0.90	1.11	1.16	1.21	1.26	1.31	1.36	1.41	1.46	1.51	_			
Ê	5.6	0.98	0.99	1.00	1.21	1.26	1.31	1.36	1.41	1.46	1.51	1.56	1.61	-			
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IDAF	6.4	1.18	1.19	1.20	1.41	1.46	1.51	1.56	1.61	1.66	1.71	1.76	1.81	-			
NUOS	6.8	1.28	1.29	1.30	1.51	1.56	1.61	1.66	1.71	1.76	1.81	1.86	1.91	-			
Σ	7.2	1.38	1.39	1.40	1.61	1.66	1.71	1.76	1.81	1.86	1.91	1.96	2.01	-			
	7.6	1.48	1.49	1.50	1.71	1.76	1.81	1.86	1.91	1.96	2.01	2.06	2.11	-			
NCE	8.0	1.58	1.59	1.60	1.81	1.86	1.91	1.96	2.01	2.06	2.11	2.16	2.21	-			
DISTANCE	8.4	1.68	1.69	1.70	1.91	1.96	2.01	2.06	2.11	2.16	2.21	2.26	2.31	-			
	8.8	1.78	1.79	1.80	2.01	2.06	2.11	2.16	2.21	2.26	2.31	2.36	2.41	-			
	9.2	1.88	1.89	1.90	2.11	2.16	2.21	2.26	2.31	2.36	2.41	2.46	2.51	-			
	9.6	1.98	1.99	2.00	2.21	2.26	2.31	2.36	2.41	2.46	2.51	2.56	2.61	-			
	10.0	2.08	2.09	2.10	2.31	2.36	2.41	2.46	2.51	2.56	2.61	2.66	2.71	-			
	10.4	2.18	2.19	2.20	2.41	2.46	2.51	2.56	2.61	2.66	2.71	2.76	2.81	-			
	10.8	2.28	2.29	2.30	2.51	2.56	2.61	2.66	2.71	2.76	2.81	2.86	2.91	-			
	11.2	2.38	2.39	2.40	2.61	2.66	2.71	2.76	2.81	2.86	2.91	2.96	3.01	-			
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	12.0 12.4	2.58 2.68	2.59	2.00	2.01	2.00	3.01	2.96 3.06	3.01 3.11	3.06 3.16	3.21	3.26	3.31	-			
	12.4	2.00	2.09	2.70	3.01	3.06	3.11	3.16	3.21	3.26	3.31	3.36	3.41	-			
	13.2	2.88	2.89	2.90	3.11	3.16	3.21	3.26	3.31	3.36	3.41	3.46	3.51	-			
	13.6	2.00	2.05	3.00	3.21	3.26	3.31	3.36	3.41	3.46	3.51	3.56	3.61				
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3	2.4	49 2.50) 2	2.71	2.76	2.81	2.86	2.91	2.96	3.01	3.06	3.11				
3	2.5	59 2.60) 2	2.81	2.86	2.91	2.96	3.01	3.06	3.11	3.16	3.21				
3	2.6	59 2.70) 2	2.91	2.96	3.01	3.06	3.11	3.16	3.21	3.26	3.31				
3	2.7	79 2.80) 3	3.01	3.06	3.11	3.16	3.21	3.26	3.31	3.36	3.41				
3	2.8	39 2.90) 3	3.11	3.16	3.21	3.26	3.31	3.36	3.41	3.46	3.51				
3	2.9	99 3.00) 3	3.21	3.26	3.31	3.36	3.41	3.46	3.51	3.56	3.61				
3	3.(09 3.10) 3	3.31	3.36	3.41	3.46	3.51	3.56	3.61	3.66	3.71				
	MU	M FI	NIS	SHE	DC	ARP	ORT	LE۱	/EL	ABC	DVE I	KERB				
'EI	RGE	WIDTH					DISTAN	CE FROM	1 BOUNE	DARY		1				
											•	-				
		VARI DIST/			2m Tf	RANSITIO	۷.	VARIAB		2m TR	ANSITION	C,	ARPORT	1		
		(MIN.	3m)													
				ARY												
				/DNDC						12	.5%		LEVEL			
				FRONT BOUNDARY				25%				_				
				FRO		- 59/										
		10%	4			22.5%										
		10.				TOP OF	KERB L	EVEL								
	T	YPIC	ΔΙ		PR)FII I	E ()	FT	RF	ΑΤΝ	1ENT	-				
	<u> </u>					BOVE				_		- /er an	ND DF	NEW	AY	GRA
					<u></u>				-		SPE	CIAL A	PPRO	VAL	REQI	JIRE
														SHEET	-	DF
														DRAWING	i No.	

STANDARD 2% VERGE GRADING

VERGE WIDTH (m)

Γ		2	2.5		3,5	4		5	5.5	۷	6.5	7	75
$\left \right $	1.2		2,5 -0.08	3	3.5 -0.06	4 -0.05	4.5 -0.04	-0.03	5.5 -0.02	6	6.5 0.00	7	7.5 0.02
_	.6	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.06	-0.05	-0.04	-0.03	-0.02
_	2.0	-0.17	-0.16	-0.15	-0.14	-0.13	-0.12	-0.11	-0.10	-0.09	-0.08	-0.07	-0.06
	2.4	-0.22	-0.21	-0.20	-0.19	-0.18	-0.17	-0.16	-0.15	-0.14	-0.13	-0.12	-0.11
	2.8	-0.27	-0.26	-0.25	-0.24	-0.23	-0.22	-0.21	-0.20	-0.19	-0.18	-0.17	-0.16
	3.2	-0.32	-0.31	-0.30	-0.29	-0.28	-0.27	-0.26	-0.25	-0.24	-0.23	-0.22	-0.21
	3.6	-0.37	-0.36	-0.35	-0.34	-0.33	-0.32	-0.31	-0.30	-0.29	-0.28	-0.27	-0.26
	4.0	-0.42	-0.41	-0.40	-0.39	-0.38	-0.37	-0.36	-0.35	-0.34	-0.33	-0.32	-0.31
4	1.4	-0.51	-0.50	-0.49	-0.48	-0.47	-0.46	-0.45	-0.44	-0.43	-0.42	-0.41	-0.40
4	1.8	-0.60	-0.59	-0.58	-0.57	-0.56	-0.55	-0.54	-0.53	-0.52	-0.51	-0.50	-0.49
Ę	i.2	-0.70	-0.69	-0.68	-0.67	-0.66	-0.65	-0.64	-0.63	-0.62	-0.61	-0.60	-0.59
5	5.6	-0.79	-0.78	-0.77	-0.76	-0.75	-0.74	-0.73	-0.72	-0.71	-0.70	-0.69	-0.68
	6.0	-0.88	-0.87	-0.86	-0.85	-0.84	-0.83	-0.82	-0.81	-0.80	-0.79	-0.78	-0.77
_	5.4	-0.97	-0.96	-0.95	-0.94	-0.93	-0.92	-0.91	-0.90	-0.89	-0.88	-0.87	-0.86
-	i.8	-1.06	-1.05	-1.04	-1.03	-1.02	-1.01	-1.00	-0.99	-0.98	-0.97	-0.96	-0.95
-	7.2 7.6	-1.16 -1.25	-1.15 -1.24	-1.14 -1.23	-1.13 -1.22	-1.12 -1.21	-1.11	-1.10 -1.19	-1.09 -1.18	-1.08	-1.07 -1.16	-1.06 -1.15	-1.05
	3.0	-1.34	-1.33	-1.32	-1.31	-1.30	-1.29	-1.28	-1.27	-1.26	-1.25	-1.24	-1.23
_	3.4	-1.43	-1.42	-1.41	-1.40	-1.39	-1.38	-1.37	-1.36	-1.35	-1.34	-1.33	-1.32
-	3.8	-1.52	-1.51	-1.50	-1.49	-1.48	-1.47	-1.46	-1.45	-1.44	-1.43	-1.42	-1.41
_	9.2	-1.62	-1.61	-1.60	-1.59	-1.58	-1.57	-1.56	-1.55	-1.54	-1.53	-1.52	-1.51
ç	9.6	-1.71	-1.70	-1.69	-1.68	-1.67	-1.66	-1.65	-1.64	-1.63	-1.62	-1.61	-1.60
10	0.0	-1.80	-1.79	-1.78	-1.77	-1.76	-1.75	-1.74	-1.73	-1.72	-1.71	-1.70	-1.69
10).4	-1.89	-1.88	-1.87	-1.86	-1.85	-1.84	-1.83	-1.82	-1.81	-1.80	-1.79	-1.78
10).8	-1.98	-1.97	-1.96	-1.95	-1.94	-1.93	-1.92	-1.91	-1.90	-1.89	-1.88	-1.87
11	1.2	-2.08	-2.07	-2.06	-2.05	-2.04	-2.03	-2.02	-2.01	-2.00	-1.99	-1.98	-1.97
11	.6	-2.17	-2.16	-2.15	-2.14	-2.13	-2.12	-2.11	-2.10	-2.09	-2.08	-2.07	-2.06
1:	2.0	-2.26	-2.25	-2.24	-2.23	-2.22	-2.21	-2.20	-2.19	-2.18	-2.17	-2.16	-2.15
12	2.4	-2.35	-2.34	-2.33	-2.32	-2.31	-2.30	-2.29	-2.28	-2.27	-2.26	-2.25	-2.24
	2.8	-2.44	-2.43	-2.42	-2.41	-2.40	-2.39	-2.38	-2.37	-2.36	-2.35	-2.34	-2.33
-	3.2	-2.54	-2.53	-2.52	-2.51	-2.50	-2.49	-2.48	-2.47	-2.46	-2.45	-2.44	-2.43
_	3.6	-2.63	-2.62	-2.61	-2.60	-2.59	-2.58	-2.57	-2.56	-2.55	-2.54	-2.53	-2.52
	4.0 M A	-2.72	-2.71	-2.70	-2.69	-2.68	-2.67	-2.66	-2.65	-2.64	-2.63	-2.62	-2.61
1	ΠP	XIM	<u>1UI™</u> 2%	<u>1'11NIC</u>	SHED		<u>RP0</u>	<u> </u>	<u>.eve</u>		ELOV		<u>RB</u>
						-10.50%					UF UF K	LEND LE	
ROAD					DARY				^{`?3} *				
5					FRONT BOUNDARY							12.50%	
EDGE					RONT								<u> </u>
88 OR						2m RANSITIO	אכ	VARIA	BLE DIST	ANCE	TR	2m ANSITION	۱_۱
KERB		VE	RGE WID	ТН				STANCE					
	P OF					ſΥ							FRONT
KI T	erb F Y	PIC	ΔΙ	PDI		FC)F 1	DF.	ΔΤΜ	1FN ⁻	T R	ELO	CARPOR
_		F IL	AL			. <u> </u>	ו ונ	RE/	<u> </u>		I D	LLU	VV
C	iR	ADIEN	ITS										

TANCE FROM BOUNDAR	Y	
VARIABLE DISTANCE	2m TRANSITION	CARPOR
-	12.5%	LEVE
	12.371	
-5%		

14.5% TOP OF KERB LEVEL PROPERTY LINE FRONT OF CARPORT

Н

R (ERB

Do to

TYPICAL PROFILE OF TREATMENT ABOVE KERB

REVISION





Shire of Denmark

DRAWN ΡL 10 SCALE PROVED CHECKED RECOMMENDED

DESIGNED

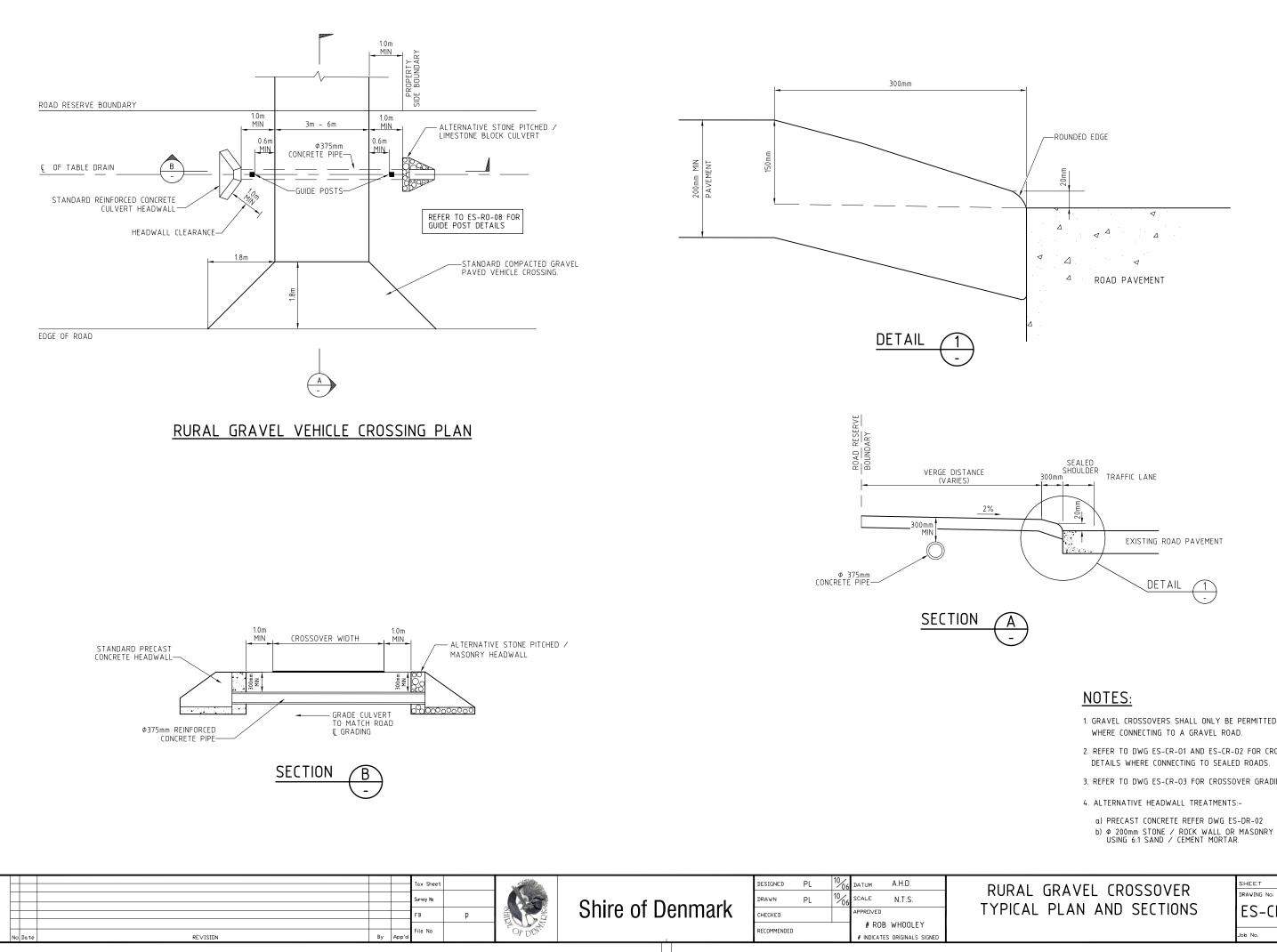
ΡL 06 DATUM N.T.S. # ROB WHOOLEY # INDICATES ORIGINALS SIGNE

						VERG	e wid	TH (m)				
		2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5
	1.2	0.19	0.20	0.21	0.22	0.23	0.24	0.25	0.26	0.27	0.28	0.29	0.30
	1.6	0.24	0.25	0.26	0.27	0.28	0.29	0.30	0.31	0.32	0.33	0.34	0.35
	2.0	0.29	0.30	0.31	0.32	0.33	0.34	0.35	0.36	0.37	0.38	0.39	0.40
	2.4	0.35	0.36	0.37	0.38	0.39	0.40	0.41	0.42	0.43	0.44	0.45	0.46
	2.8	0.41	0.42	0.43	0.44	0.45	0.46	0.47	0.48	0.49	0.50	0.51	0.52
	3.2	0.46	0.47	0.48	0.49	0.50	0.51	0.52	0.53	0.54	0.55	0.56	0.57
	3.6	0.52	0.53	0.54	0.55	0.56	0.57	0.58	0.59	0.60	0.61	0.62	0.63
	4.0	0.58	0.59	0.60	0.61	0.62	0.63	0.64	0.65	0.66	0.67	0.68	0.69
	4.4	0.68	0.69	0.70	0.71	0.72	0.73	0.74	0.75	0.76	0.77	0.78	0.79
	4.8	0.78	0.79	0.80	0.81	0.82	0.83	0.84	0.85	0.86	0.87	0.88	0.89
	5.2	0.88	0.89	0.90	0.91	0.92	0.93	0.94	0.95	0.96	0.97	0.98	0.99
	5.6	0.98	0.99	1.00	1.01	1.02	1.03	1.04	1.05	1.06	1.07	1.08	1.09
Ê	6.0	1.08	1.09	1.10	1.11	1.12	1.13	1.14	1.15	1.16	1.17	1.18	1.19
(ح	6.4	1.18	1.19	1.20	1.21	1.22	1.23	1.24	1.25	1.26	1.27	1.28	1.29
IDAF	6.8	1.28	1.29	1.30	1.31	1.32	1.33	1.34	1.35	1.36	1.37	1.38	1.39
SOUN	7.2	1.38	1.39	1.40	1.41	1.42	1.43	1.44	1.45	1.46	1.47	1.48	1.49
DISTANCE FROM BOUNDARY (m)	7.6	1.48	1.49	1.50	1.51	1.52	1.53	1.54	1.55	1.56	1.57	1.58	1.59
	8.0	1.58	1.59	1.60	1.61	1.62	1.63	1.64	1.65	1.66	1.67	1.68	1.69
NCE	8.4	1.68	1.69	1.70	1.71	1.72	1.73	1.74	1.75	1.76	1.77	1.78	1.79
DISTAN	8.8	1.78	1.79	1.80	1.81	1.82	1.83	1.84	1.85	1.86	1.87	1.88	1.89
	9.2	1.88	1.89	1.90	1.91	1.92	1.93	1.94	1.95	1.96	1.97	1.98	1.99
	9.6	1.98	1.99	2.00	2.01	2.02	2.03	2.04	2.05	2.06	2.07	2.08	2.09
	10.0	2.08	2.09	2.10	2.11	2.12	2.13	2.14	2.15	2.16	2.17	2.18	2.19
	10.4	2.18	2.19	2.20	2.21	2.22	2.23	2.24	2.25	2.26	2.27	2.28	2.29
	10.8	2.28	2.29	2.30	2.31	2.32	2.33	2.34	2.35	2.36	2.37	2.38	2.39
	11.2	2.38	2.39	2.40	2.41	2.42	2.43	2.44	2.45	2.46	2.47	2.48	2.49
	11.6	2.48	2.49	2.50	2.51	2.52	2.53	2.54	2.55	2.56	2.57	2.58	2.59
	12.0	2.58	2.59	2.60	2.61	2.62	2.63	2.64	2.65	2.66	2.67	2.68	2.69
	12.4	2.68	2.69	2.70	2.71	2.72	2.73	2.74	2.75	2.76	2.77	2.78	2.79
	12.8	2.78	2.79	2.80	2.81	2.82	2.83	2.84	2.85	2.86	2.87	2.88	2.89
	13.2	2.88	2.89	2.90	2.91	2.92	2.93	2.94	2.95	2.96	2.97	2.98	2.99
	13.6	2.98	2.99	3.00	3.01	3.02	3.03	3.04	3.05	3.06	3.07	2.08	3.09
	14.0	3.08	3.09	3.10	3.11	3.12	3.13	3.14	3.15	3.16	3.17	3.18	3.19
	<u>MA</u>	XIM	UM I	=INIS	HED	CA	<u>RP0</u>	RT	LEVE	EL A	BOV	<u>'E K</u>	ERB
I		VERGE	WIDTH	. 1			DIST	ANCE FF	ROM BOU	NDARY			_1
ROAD				RY	2m TRANS		V	ARIABLI	E DISTAI		2r TRAN		с,

NOTE 1. A NEGATIVE VERGE GRADING SHALL <u>NEVER</u> BE ADOPTED WITHOUT THE APPROVAL OF CES

CROSSOVER GRADIENTS

DRAWING No. ES-CR-03 ob No.



- 1. GRAVEL CROSSOVERS SHALL ONLY BE PERMITTED WHERE CONNECTING TO A GRAVEL ROAD.
- 2. REFER TO DWG ES-CR-01 AND ES-CR-02 FOR CROSSOVER DETAILS WHERE CONNECTING TO SEALED ROADS.
- 3. REFER TO DWG ES-CR-03 FOR CROSSOVER GRADIENTS.
- a) PRECAST CONCRETE REFER DWG ES-DR-02

GRAVEL CROSSOVER						
L	PLAN	AND	SECTIONS			

SHEE	T OF
DRAWIN	IG No.
ES	-CR-04
Job No	

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