

**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX**  
 NOTES: THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE RISK REGISTER PRODUCED FOR INCLUSION IN THE HEALTH AND SAFETY PLAN. THE HAZARDS NOTED ARE IN ADDITION TO THE NORMAL HAZARDS AND RISKS FACED BY A COMPETENT CONTRACTOR FOR WHICH DEALING WITH THE TYPE OF WORKS DETAILED ON THIS DRAWING.

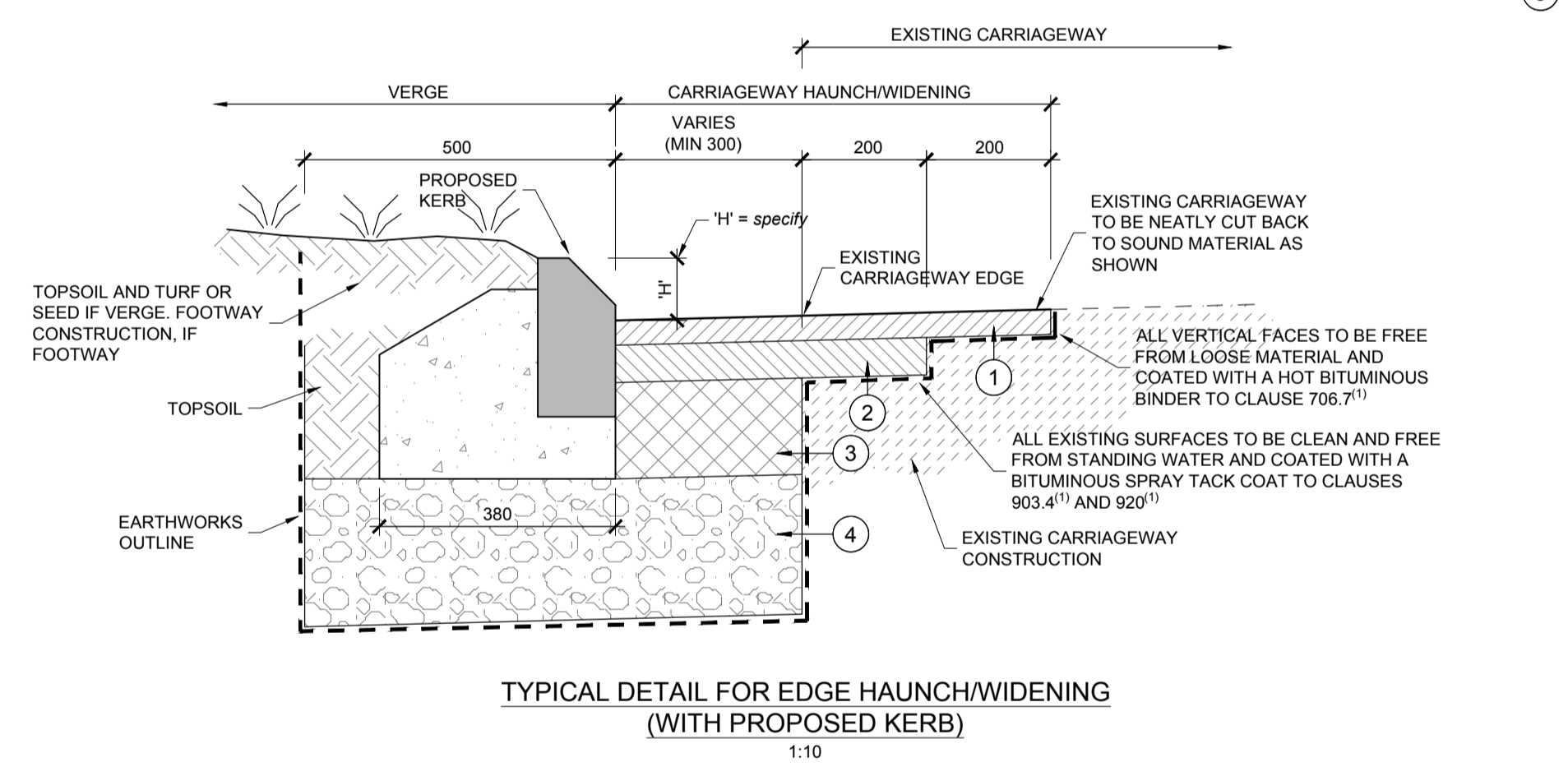
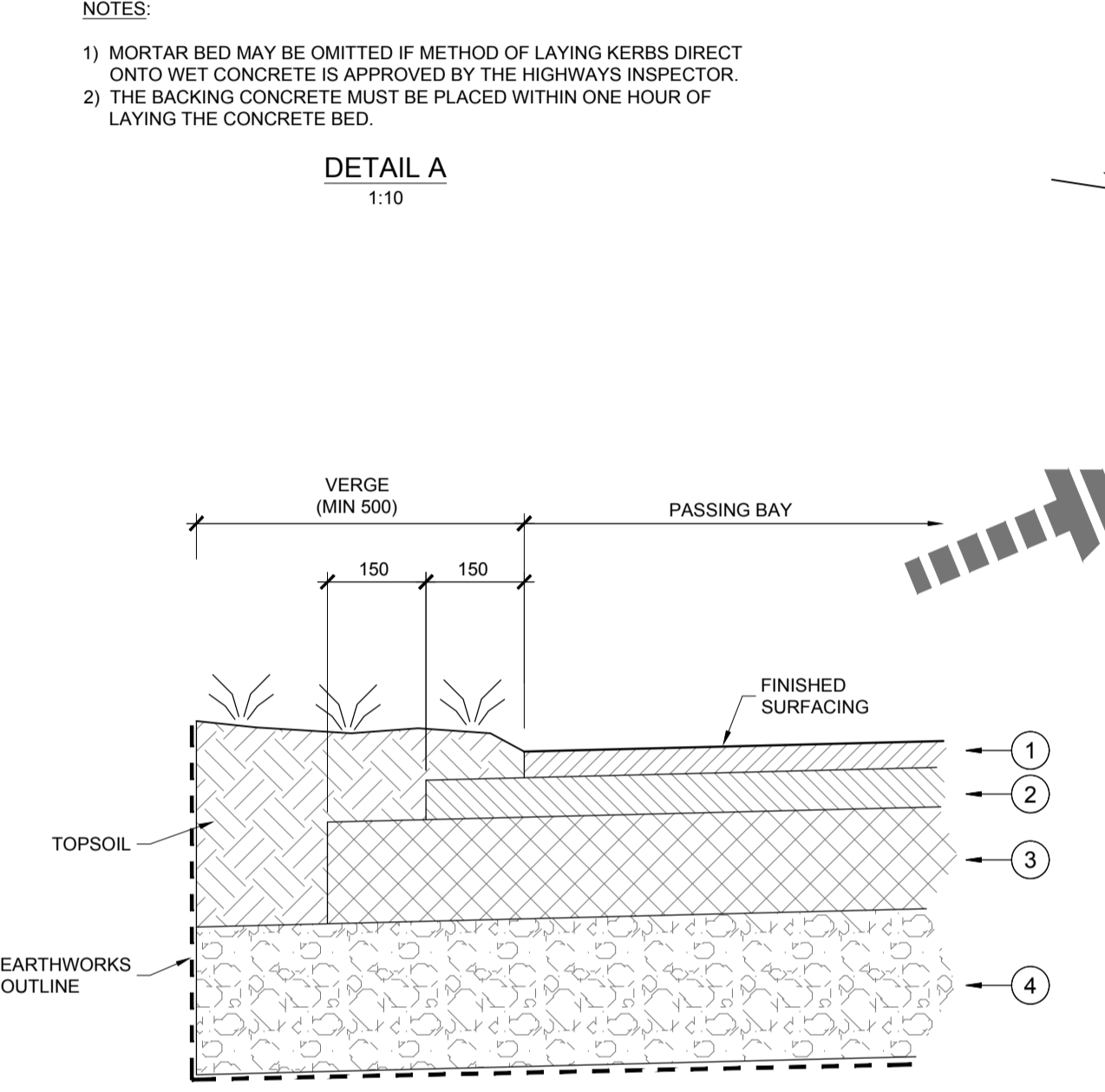
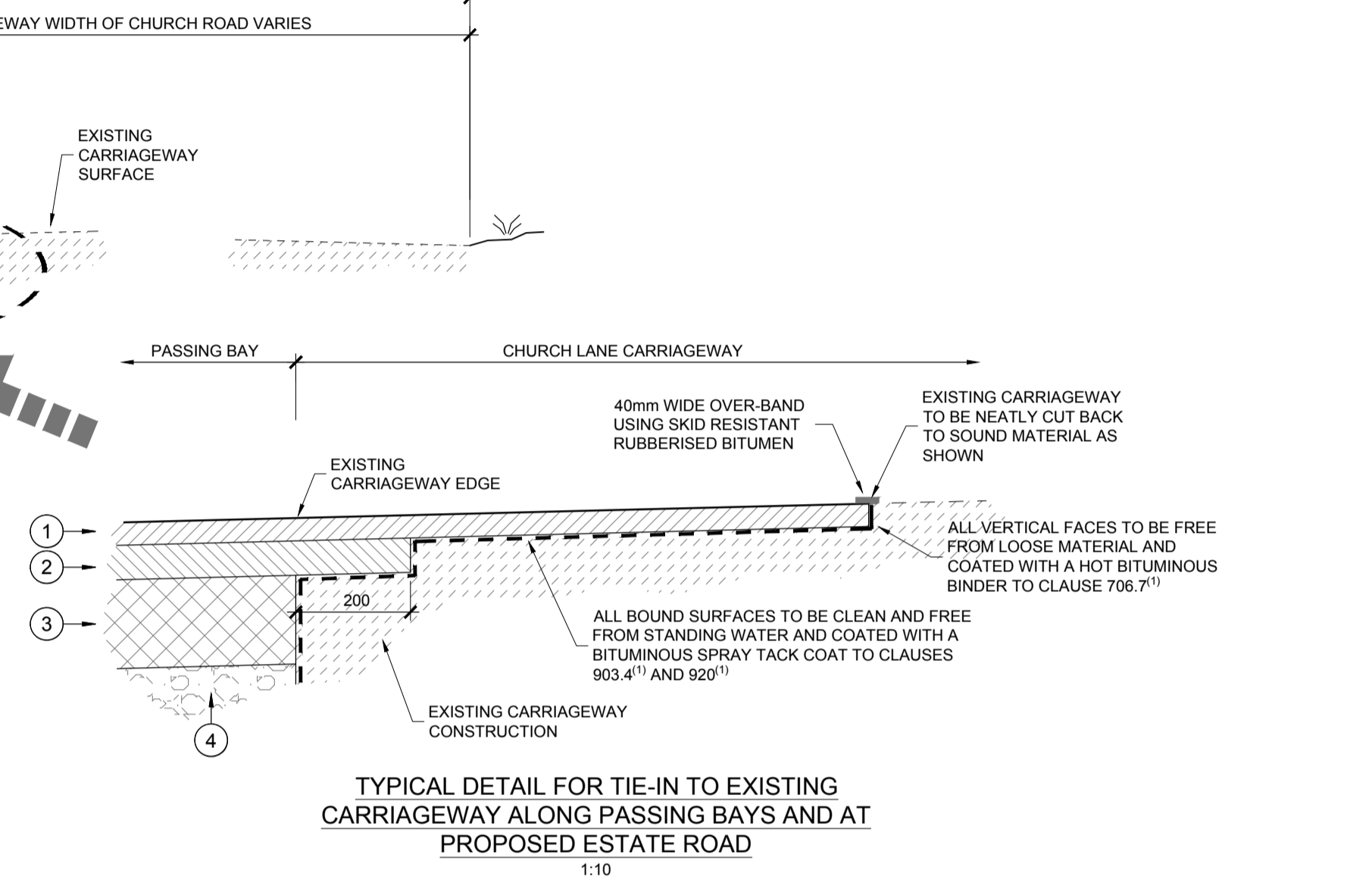
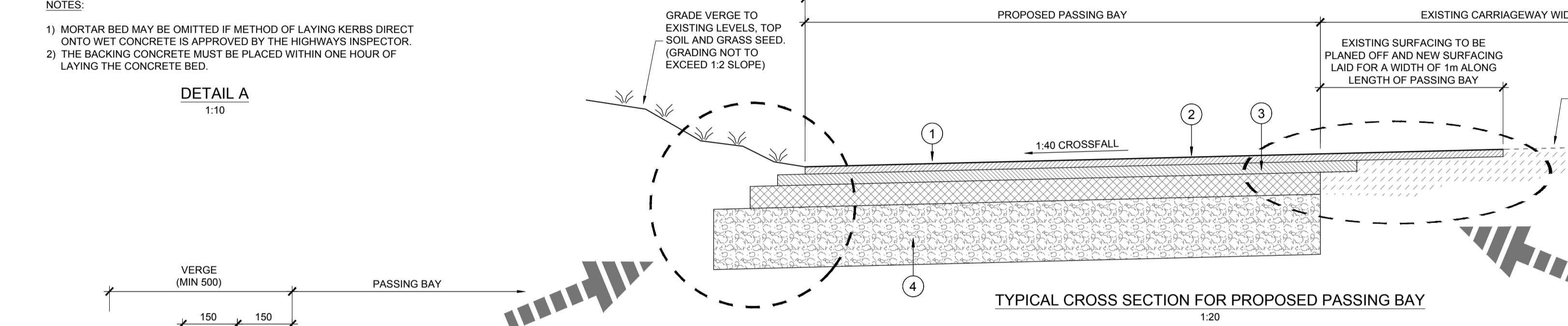
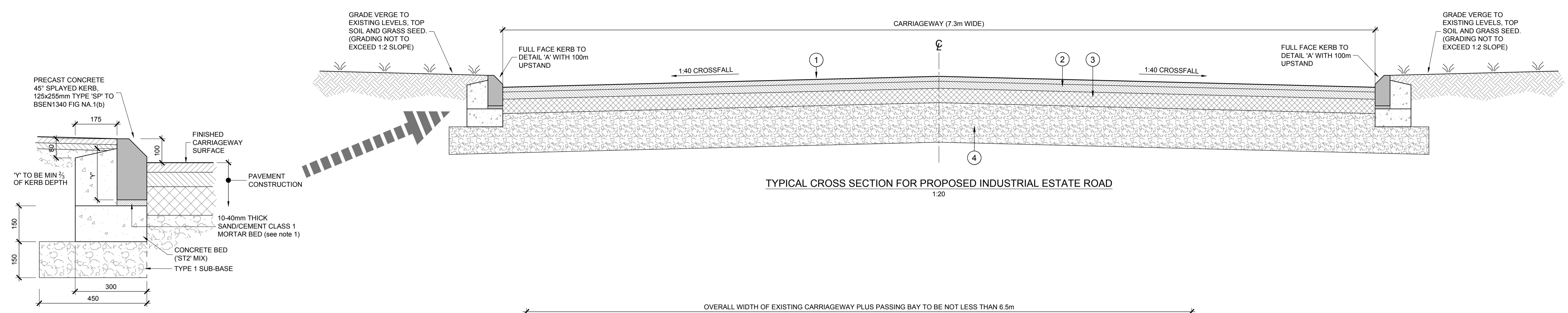
**CONSTRUCTION RISKS:**  
**MAINTENANCE/CLEANING RISKS:**  
**DEMOLITION RISKS:**

**GENERAL NOTES**

- DO NOT SCALE. IF IN DOUBT ASK. DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL ENGINEER'S DRAWINGS AND DETAILS, THE SPECIFICATION FOR THE WORKS, THE RELEVANT ARCHITECT'S DRAWINGS AND ANY OTHER SPECIALIST'S DRAWINGS.
- THE PRINCIPAL CONTRACTOR IS TO PROVIDE FULLY DESIGNED PROPPING/SHORING TO FACILITATE THE WORKS. ALL PROPPING & BRACING IS TO BE ADEQUATELY FOUNDED TO ENSURE THE STABILITY/INTEGRITY OF THE EXISTING/PROPOSED STRUCTURES AND/OR EARTHWORKS IS MAINTAINED.
- THIS DOCUMENT HAS BEEN PREPARED IN ACCORDANCE WITH THE SCOPE OF ROSSI LONG CONSULTING'S APPOINTMENT WITH ITS CLIENT AND IS SUBJECT TO THE TERMS OF THAT APPOINTMENT. ROSSI LONG CONSULTING ACCEPTS NO LIABILITY FOR ANY USE OF THIS DOCUMENT OTHER THAN BY ITS CLIENT AND ONLY FOR THE PURPOSES FOR WHICH IT WAS PREPARED AND PROVIDED. ONLY WRITTEN DIMENSIONS SHALL BE USED.
- REFER ALSO TO THE GENERAL NOTES ON LAYOUT DRAWINGS.
- ALL CONSTRUCTION DETAILS, MATERIALS AND WORKMANSHIP TO BE IN ACCORDANCE WITH NORFOLK COUNTY COUNCIL'S ROAD CONSTRUCTION AND STREET LIGHTING SPECIFICATION (CURRENT EDITION), READ IN CONJUNCTION WITH THE SPECIFICATION FOR HIGHWAYS WORKS (PUBLISHED BY THE DEPARTMENT FOR TRANSPORT).

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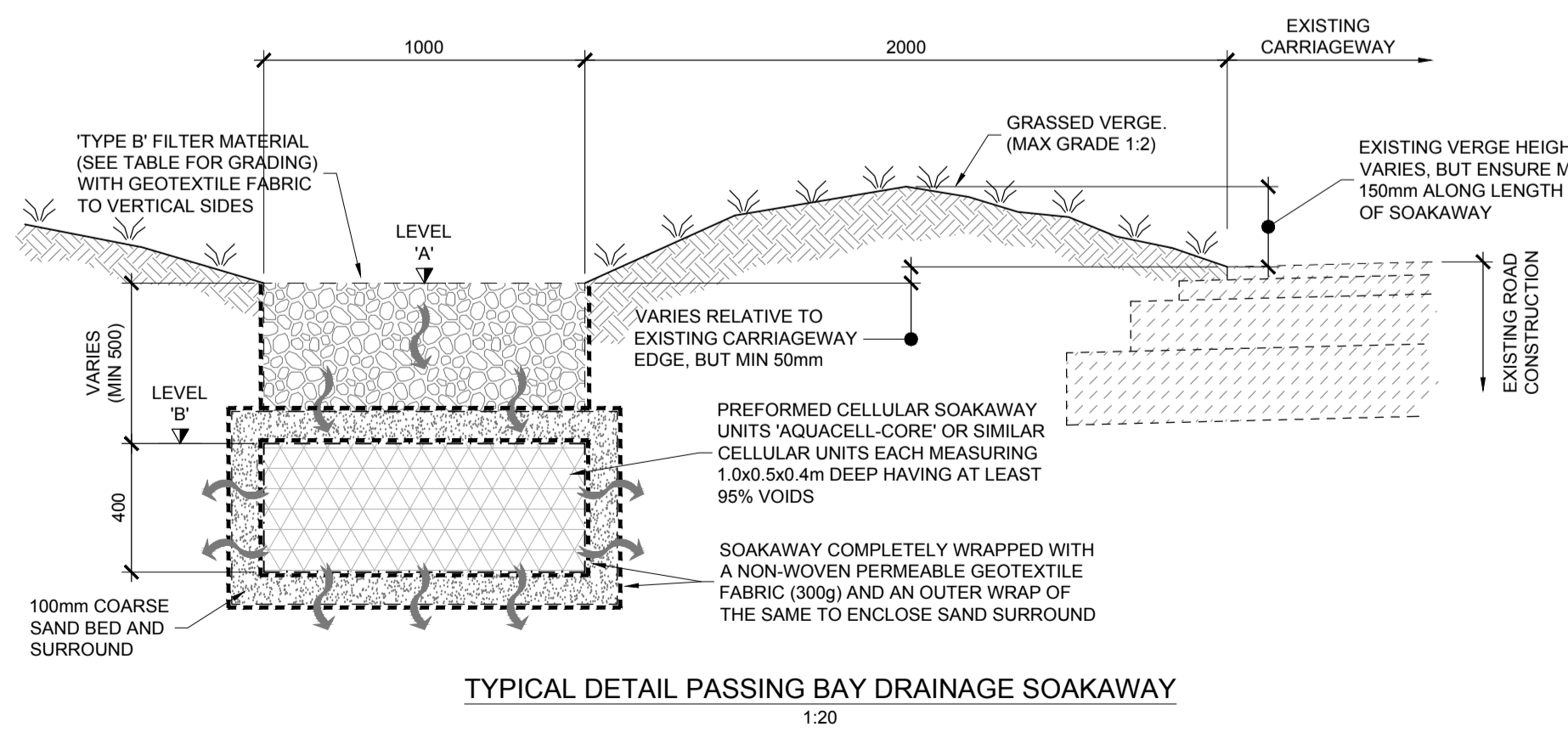
**PRELIMINARY DRAWING:**  
 THIS DRAWING IS FOR PRELIMINARY PURPOSES ONLY AND MUST NOT BE READ AS A CONSTRUCTION ISSUE. IT INDICATES DESIGN INTENT ONLY AND IS SUBJECT TO AMENDMENT DURING FINAL DESIGN DEVELOPMENT.



ROAD CONSTRUCTION SPECIFICATION																	
LAYER	SPECIFICATION	COMPACTED THICKNESS (mm)															
CARRIAGEWAY	1 HRA 30/14 F SURF 40/60 HOT ROLLED ASPHALT SURFACE COURSE TO PD6691:2015, TABLE C2A COL 8, TYPE F DESIGN MIX CONTAINING 30% COARSE AGGREGATE OF CRUSHED ROCK WITH A MAXIMUM AGGREGATE SIZE OF 14mm, A TYPE F FINE AGGREGATE OF CRUSHED ROCK AND A 40/60 PENETRATION GRADE BITUMEN BINDER. SURFACE TO HAVE PRE-COATED CHIPPIINGS OF 20mm NOM SIZE, WITH A MIN PSV OF 55 (58 ON APPROACHES TO JUNCTIONS), ROLLED IN TO GIVE TEXTURE DEPTH OF 1.2mm (MEASURED BY SAND PATCH METHOD). CHANNEL BOARDS TO BE USED TO GIVE A CHIPPIING FREE CHANNEL.	40															
	2 <sup>(7)</sup> HRA 50/20 BIN 40/60 HOT ROLLED ASPHALT BINDER COURSE TO PD6691:2015, TABLE C1, MIX CONTAINING 50% AGGREGATE WITH A MAXIMUM AGGREGATE SIZE OF 20mm AND A 40/60 PENETRATION GRADE BITUMEN BINDER.	60															
	3 <sup>(7)</sup> HRA 60/32 BASE 40/60 HOT ROLLED ASPHALT TO PD6691:2015, TABLE C1, MIX CONTAINING 60% AGGREGATE WITH A MAXIMUM AGGREGATE SIZE OF 32mm AND A 40/60 PENETRATION GRADE BITUMEN BINDER.	120															
	4 GRANULAR SUB-BASE TYPE 1 TO CLAUSE 803 <sup>(1)</sup> CERTIFIED AS NON-FROST SUSCEPTIBLE, SPREAD EVENLY ON THE FORMATION IN LAYERS NOT EXCEEDING 150mm COMPACTED THICKNESS. COMPACTION TO CLAUSE 802 <sup>(1)</sup> TO ACHIEVE A MINIMUM CBR VALUE OF 20%. * ALTERNATIVE SUB-BASE THICKNESS IF USED WITH A CAPPING BELOW	<table border="1"> <tr> <th colspan="4">CBR <sup>(2)(3)(4)(6)</sup></th> </tr> <tr> <td>2.5%</td> <td>5%</td> <td>10%</td> <td>15%</td> </tr> <tr> <td>450</td> <td>330</td> <td>250</td> <td>200</td> </tr> <tr> <td>350*</td> <td>240*</td> <td>180*</td> <td>150*</td> </tr> </table>	CBR <sup>(2)(3)(4)(6)</sup>				2.5%	5%	10%	15%	450	330	250	200	350*	240*	180*
CBR <sup>(2)(3)(4)(6)</sup>																	
2.5%	5%	10%	15%														
450	330	250	200														
350*	240*	180*	150*														
5 CLASS 6F1 OR 6F2 IF SITE WON OR IMPORTED 6F4 OR 6F5 CAPPING MATERIAL TO TABLE 61 <sup>(1)</sup> AND CLAUSE 613 <sup>(1)</sup> COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 614 <sup>(1)</sup> .	250																
VERGE	6 GRASSED AREAS SHALL BE GRADED TO THE APPROVED LEVEL, SPREAD WITH A MINIMUM DEPTH OF 100mm OF VEGETABLE SOIL AND EITHER TURFED OR CULTIVATED AND SOWN AT THE APPROPRIATE SEASON WITH APPROVED GRASS SEED AT A RATE OF 0.034kg/m <sup>2</sup> . THE FINISHED VERGE SHALL BE LEVEL WITH THE ADJACENT FOOTWAY AND KERBS AND SHALL HAVE A MINIMUM WIDTH OF NOT LESS THAN 1m.	MIN 100															
GENERAL FILL	CLASS 1 GRANULAR FILL MATERIAL TO TABLE 61 <sup>(1)</sup> AND CLAUSE 613 <sup>(1)</sup> COMPACTED IN LAYERS IN ACCORDANCE WITH TABLE 614 <sup>(1)</sup> .	AS REQUIRED															

GRADING REQUIREMENTS FOR TYPE B FILTER MATERIAL (FROM TABLE 5/5 OF THE SPECIFICATION FOR HIGHWAY WORKS)							
PERCENTAGE BY MASS PASSING SIEVE							
TYPE B	BS SIEVE SIZES				MICRONS		
	63	37.5	20	10	5	1.18	600
100	85-100	0-25	0-5	-	-	-	-

SCHEDULE OF DIMENSIONS AND LEVELS FOR PASSING BAY SOAKAWAYS			
REF	LENGTH (m)	LEVEL (m)	
		'A'	'B'
SA-1	9.5	47.05	46.55
SA-2	8	43.70	43.20
SA-3	9.5	42.90	42.40



- NOTES:**
- SPECIFICATION FOR HIGHWAY WORKS PUBLISHED BY THE DEPARTMENT FOR TRANSPORT.
  - CONSTRUCTION THICKNESS FOR PROVEN ALTERNATIVE SUB-GRADE CBR VALUES.
  - WHERE CBR VALUE IS LESS THAN 2.5% SPECIAL ENGINEERING CONSIDERATIONS WILL BE REQUIRED.
  - SUB-BASE TO BE THICKENED OR CAPPING LAYER TO BE USED TO GIVE A TOTAL CONSTRUCTION DEPTH OF CARRIAGEWAY OF 450mm WHERE SUB-GRADE IS FROST SUSCEPTIBLE.
  - BITUMEN GRADES TO COMPLY WITH EN12591 WHICH REPLACES BS3690. NEW GRADES OF 40/60, 100/150 AND 160/220 PEN REPLACES THE FORMER BS GRADES OF 50, 100 AND 200 PEN.
  - CBR AT FORMATION IS ASSUMED TO BE NOT LESS THAN 5% (TO BE CONFIRMED BY CBR TESTING).
  - ALL BOUND SURFACES SHALL BE THOROUGHLY CLEANED AND A BOND COAT TO BS94987 AND CL920 OF SHW SPRAYED ON IMMEDIATELY PRIOR TO THE NEXT LAYER BEING LAID.

REV	DESCRIPTION	DATE	BY	AUTH
P1	FIRST ISSUE FOR COMMENT/APPROVAL	12/03/18	PW	GMA

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PROJECT  
**NORFOLK FOOD HUB CHURCH LANE, EASTON**

TITLE  
**TYPICAL CONSTRUCTION DETAILS FOR PROPOSED HIGHWAY WORKS (sheet 1)**

DRAWN	AUTHORISED	DATE	SCALE AT A1
PW	GMA	12/03/18	1:20; 1:10
PROJECT NO.	DRAWING NO.	REV	
141222	CL-1012	P1	

STAGE:  
**PRELIMINARY**