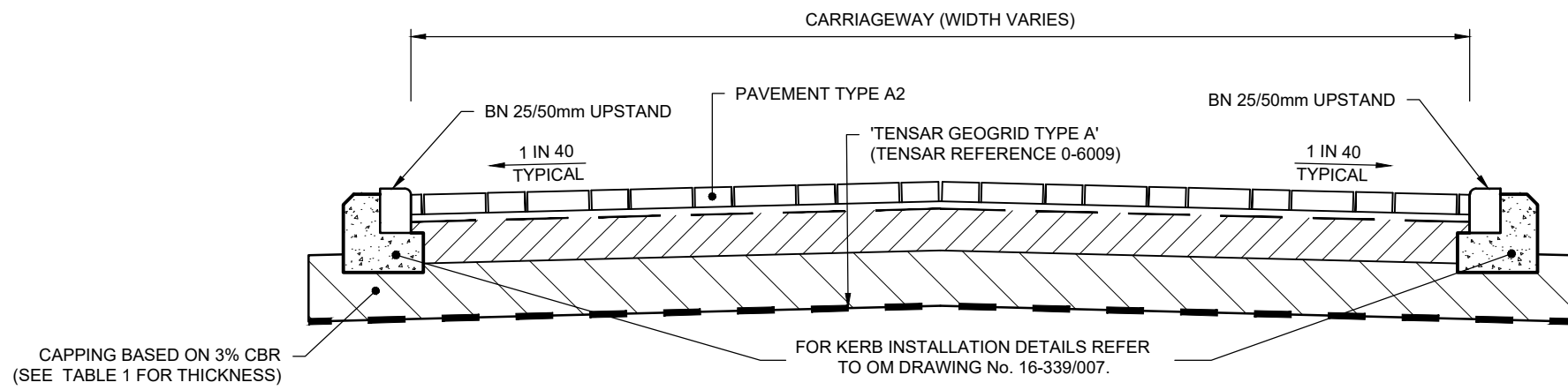
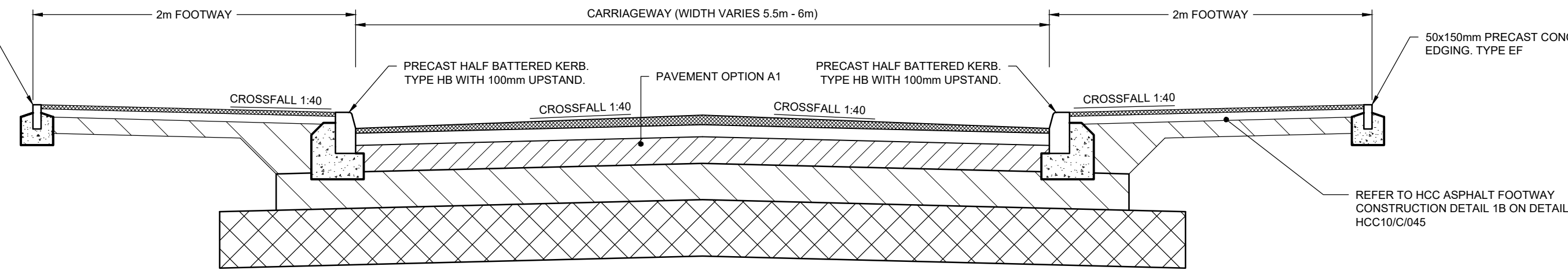
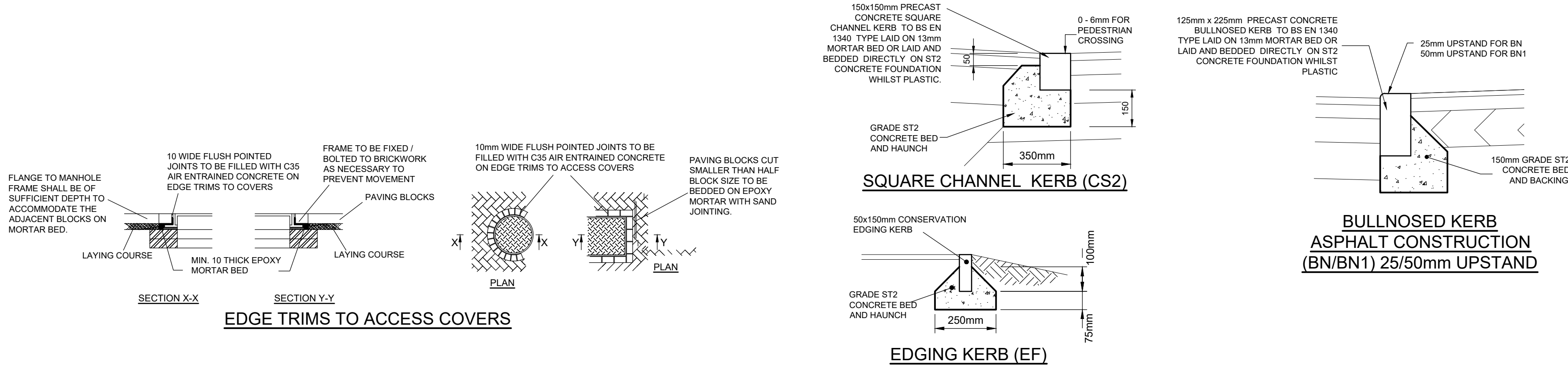
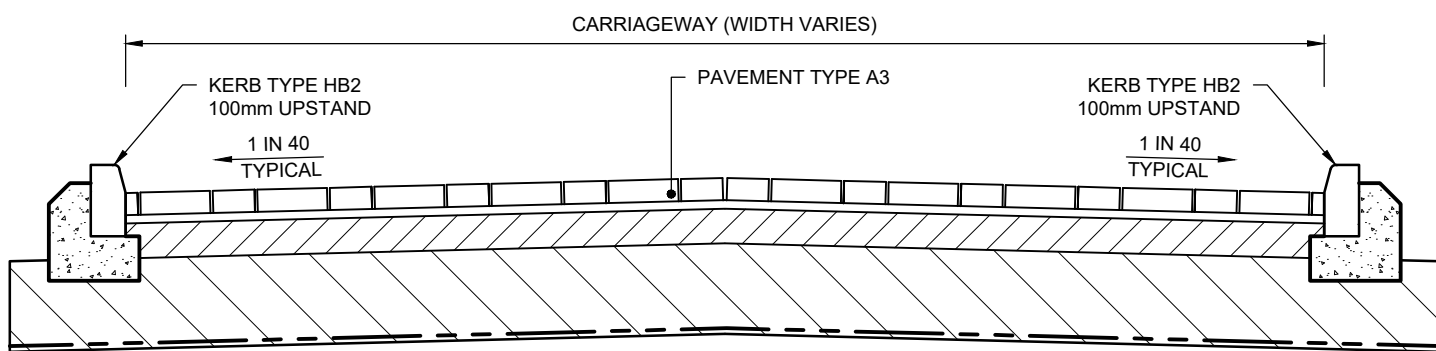




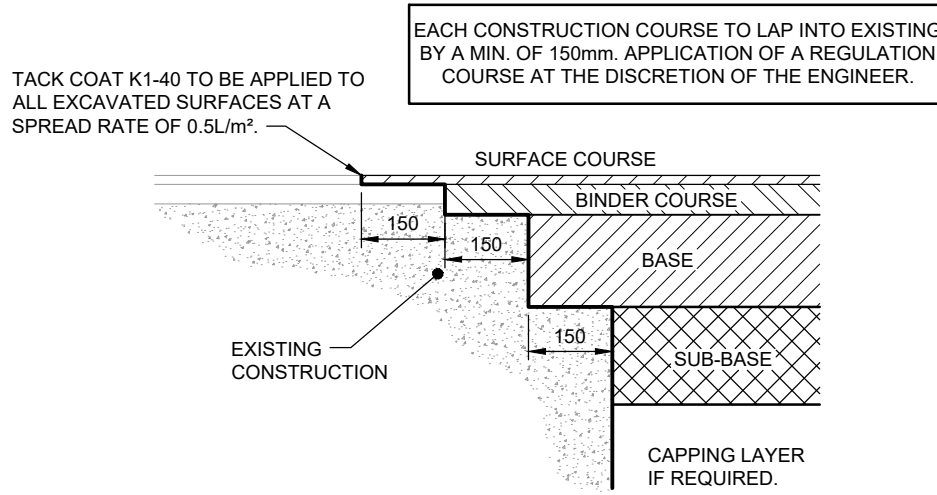
PRIVATE BLOCK PAVING SCHEDULE 2b: PERMITTED CONSTRUCTION MATERIALS		
NHBC Ch 10	Pavement option	A3
Pavement Layer	Material Ref.	Thickness (mm)
Pavers	SC BLK	80
Bedding course	LC AGR	50
Binder course	BC AC	125*
Sub-base	SB	See Table 3
Total construction thickness to be a minimum of 450mm for frost susceptibility		
*Binder course increased from 60mm as vehicle running during construction is expected		

Capping Table 3- NHBC Chapter 10 (For Type A3)		
Subgrade CBR	Sub-base without Geotextile	Sub-base with Geotextile
CBR 7-20%	100mm	N/A
CBR 5-7%	150mm	N/A
CBR 3-5%	250mm	150mm
CBR 2-3%	325mm	225mm
CBR Less than 2%	N/A	300mm



TYPE A2 TYPICAL SECTION THROUGH FULL DEPTH BLOCK PAVED CARRIAGEWAY (NHBC)

(BASED ON 3% CBR)



Capping Table 2- BS 7533-1	
Subgrade	Capping Layer Thickness
CBR 3%	250mm
CBR 2%	340mm
CBR Less than 2%	470mm*

Capping Table 1			
Subgrade	Capping Layer Thickness	Sub-Base Thickness	Sub-Base only Option Thickness
CBR 2% - 5%	350mm	150mm	400mm*
CBR Less than 2%	800mm (min) WITH GEOTEXTILE SEPARATOR	150mm	

*There may be some circumstances where a sub-base only construction will not be acceptable in this category

SCHEDULE 4: Requirements for Construction Materials			
Material Ref.	Clause	Description	Requirement
SB	891AR	Granular Sub-base Material Type CDD	Crushed Demolition Debris (CDD) or other mixed materials as defined within this clause shall be well graded. Refer to HCC Contract Specification Page 24
	948SR	Cold Recycled Bituminous Bound Material	Min. Indirect Tensile Stiffness Modulus (ITSM) Dry: 2500MPa mean value Soaked: 2000MPa mean value Minimum added bitumen content = 3% Compaction = 95% min PRD
RB AC	948SR	Cold Recycled Bituminous Bound Material	Min. Indirect Tensile Stiffness Modulus (ITSM) Dry: Individual Value >2000MPa Mean Value >2500MPa Min. Indirect Tensile Stiffness Modulus (ITSM) water saturated: Individual Value >1500MPa Mean Value >2000MPa Minimum added bitumen content = 3% Compaction >93% min PRD Note: Block paved areas only to have 40/60 binder grade as specified by HCC
B AC	929	Dense Binder Course Asphalt Concrete (Design Mixes)	BS EN 13108-1, PD 6691, BS 594987 AC 20dense bin 100/150 DES Clause 945 applies. Binder Grade: 40/60 Aggregate Size: 20 Wheel-tracking in accordance with BS 598-110 45°C Wheel-tracking criteria applies: Max. Wheel-tracking rate = 2mm/hr Max. Rut Depth = 4mm Coarse Aggregate to be crushed rock or slag. Fine Aggregate to exclude natural sand fines.
BC AC	929	Dense Binder Course Asphalt Concrete (Design Mixes)	BS EN 13108-1, PD 6691, BS 594987 AC 20dense bin 40/60 DES Clause 945 applies. Binder Grade: 40/60 Aggregate Size: 20 Wheel-tracking in accordance with BS 598-110 45°C Wheel-tracking criteria applies: Max. Wheel-tracking rate = 2mm/hr Max. Rut Depth = 4mm Coarse Aggregate to be crushed rock or slag. Fine Aggregate to exclude natural sand fines.
SC AC	912	Close Graded Asphalt Concrete	BS EN 13108-1, PD 6691, BS 594987 AC 10 close surf 100/150 Traffic Category: A' (>250cvd) / B' (<250cvd) Binder Grade: 100/150 Minimum PSV: 55 Maximum AAV: 16 Adhesion agent required if quartzite, basalt or other igneous rock Coarse Aggregate to be crushed rock or slag excluding limestone. Fine aggregate to be Crushed rock and natural sand blend
LC AGR		Graded aggregate laying course	Laying course category L to BS 7533-3 table D.1 Grading to table D.2 Fines content category 11.5 to BS EN 12620. Compactor details to table F.1 site category I
SC BLK		Block paving surface course. Refer to construction make up for block sizes.	Concrete paving blocks to BS EN 1338. Blocks laid in 45° herringbone pattern in direction of traffic flow to figure E.1(a) to BS 7533-3. Minimum PPTV: 45 PSRV: 45 Wide Wheel Abrasion Resistance Value <23mm Jointing & void filling material to BS EN 7533-3 table D.4

SCHEDULE 3: General Requirements for Construction Materials	
Clause	Requirement
801.2	Limited distance for deposition of unbound mixtures referred to in sub clause 801.2
801.3	Limited distance for deposition of unbound mixtures referred to in sub clause 801.3
802.14	Thickness of compacted sub-base layer required for trafficking trial, to be specified in Schedule 2
801.7	All sub-base material shall comply with sub-clause 801.7
901.2	Requirements for hardness, durability and cleanliness of aggregates shall comply with sub-clause 901.2
901.19	The compaction level of base and binder course macadam's shall comply with sub-clause 901.19
903.27	A minimum PSV ₅₀ is required for a temporary running surface
924SR	Surfaces to which non-thermoplastic type 1 materials are to be applied shall be trafficked for at least 3 weeks and deemed suitable by the contractor prior to application. 'Slippery Road Surface Ahead' Signs to TSRGD Diagram No. 557 shall be erected at each site until the type 1 material has been applied.

SCHEDULE 1: GENERAL REQUIREMENTS - PAVEMENT TREATMENT		
Grid for checking surface levels of pavement courses [702.4]	Longitudinal Dimension	10m max
Surface regularity [702.5, TABLE 7/2]	Transverse Dimension:	2m max
Interval for measurements of longitudinal regularity	Category of Road:	A
Interval for measurements of transverse regularity		Continuous
Whether measurement of surface texture is required [921.2]		20mm
Average: 1.5mm; Maximum: 2.0mm; Minimum: 1.20mm		Yes

SCHEDULE 2: PERMITTED CONSTRUCTION MATERIALS				
PAVEMENT LAYER	Pavement option A1		Pavement option A2	
	MATERIAL REF.	THICKNESS (mm)	MATERIAL REF.	THICKNESS (mm)
SURFACE COURSE	SC	45	SC BLK	80
BINDER COURSE	BC1	65	LC AGR	30
BASE	RB AC	160	RB AC	160
SUB-BASE	SB	150	SB	150
CAPPING	6F1	350	6F1	250
TOTAL THICKNESS		770		670

THE ABOVE CONSTRUCTION MAKE UP BASED ON CBR OF 3%.

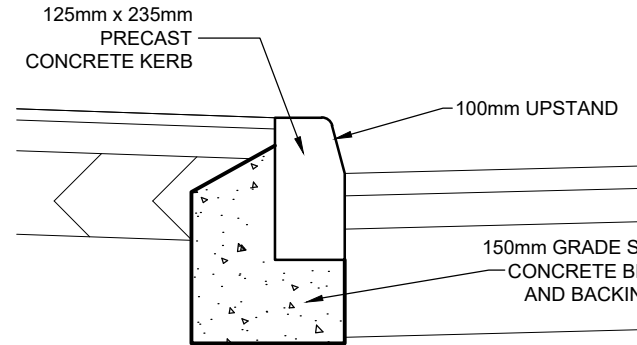
SHOULD A HIGHER CBR BE ESTABLISHED ONSITE THE CONTRACTOR IS TO USE THE ABOVE AS THE MINIMUM CONSTRUCTION DEPTH REQUIREMENT.

IN THE EVENT A LOWER CBR IS ENCOUNTERED THE FOLLOWING SHALL BE APPLIED:

PAVEMENT OPTION A1:
REFER TO CAPPING TABLE 1

PAVEMENT OPTION A2:
REFER TO CAPPING TABLE 2

HALF BATTERED KERB (HB2) 100mm UPSTAND



- NOTES**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS ISSUED BY THE ARCHITECT AND ENGINEER, NHBC STANDARDS AND HAMPSHIRE COUNTY COUNCIL STANDARD HIGHWAY CONSTRUCTION DETAILS
 - DO NOT SCALE FROM THIS DRAWING, REFER TO FIGURED DIMENSIONS ONLY.
 - WORKS TO BE CARRIED OUT IN ACCORDANCE WITH SPECIFICATION FOR HIGHWAY WORKS (SHW) LATEST EDITION AND CURRENT BRITISH STANDARDS.
 - DO NOT SCALE FROM THIS DRAWING, REFER TO FIGURED DIMENSIONS ONLY.
 - COMPACTION OF ALL BITUMINOUS MATERIAL SHALL BE TO BS EN 594897
 - ALL BLACK TOP MATERIAL TO BE LAID BY AN EXPERIENCED SURFACING CONTRACTOR.
 - SURFACE COURSE SHALL NOT BE TRAFFICKED FOR 24 HOURS.
 - NAME, ADDRESS AND CONTACT OF MATERIAL SUPPLIERS BATCHING PLANT SHALL BE PROVIDED TO THE CLIENT FOR APPROVAL.
 - COPIES OF ORDER SHALL BE MADE AVAILABLE TO THE CLIENT.
 - COPIES OF DELIVERY TICKETS AND RECORDS OF WHERE MATERIALS ARE LAID.
 - CERTIFICATION SHALL BE PROVIDED OF DELIVERY TEMPERATURES AND ROLLING TEMPERATURES.
 - DIP MEASUREMENTS FOR THICKNESS OF SURFACING COURSE SHALL BE MADE AVAILABLE TO SITE MANAGER.
 - WITH SUB-BASE MATERIAL PARTICULAR ATTENTION SHALL BE PAID TO PLACING AND COMPACTING TO ACHIEVE MAXIMUM DENSITY.
 - IF APPROVED GRADED HARDCORE IS EMPLOYED IT SHALL BE BLINDED WITH TYPE 1 OR TYPE 2 MATERIAL PRIOR TO LAYING BINDER COURSE IN ORDER TO PROVIDE A WELL COMPACTED, CLOSED EVEN SURFACE TO THE REQUIRED LEVELS AND FALL.
 - GEOTECHNICAL REPORT IS AVAILABLE FOR INSPECTION UPON REQUEST.
 - THE CONTRACTOR SHALL CONFIRM AT HIS OWN EXPENSE THE 'CBR' VALUE AT 30m INTERVALS ALONG THE CARRIAGEWAY ROUTE. THE CONTRACTOR IS TO LIAISE WITH THE ENGINEER IF THERE IS ANY DISCREPANCY.
 - THE HIGHWAY CONSTRUCTION MAKEUP SHOWN ON THIS DRAWING IS BASED UPON A DESIGN 'CBR' VALUE OF 3%. THE CONTRACTOR SHALL CONFIRM AT HIS OWN EXPENSE THE 'CBR' VALUE AT 30m INTERVALS ALONG THE CARRIAGEWAY ROUTE. THE CONTRACTOR IS TO LIAISE WITH THE HIGHWAY ENGINEER IF THERE IS ANY DISCREPANCY.
 - ANY SOFT SPOTS ARE TO BE REMOVED AND REPLACED WITH CLASS 6F2 OR MATERIAL APPROVED BY THE ENGINEER.
 - REFER TO ODYSSEY DRAWING 17-301/301 FOR CONSTRUCTION MAKE UP LAYOUTS.
 - ALL IMPERMEABLE BLOCK PAVING IS BE LAID WITH A BLOCK SEALANT TO STOP WATER INGRESS.

TENDER ISSUE

B	JOB TITLE UPDATED	HM	RM	TG	21.06.21
A	KERB DETAILS ADDED	LP	RM	TG	18.01.19
Rev	Amendments	Dm	Chk	App	Date

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Job Title			BORLEY GREEN, PHASE C5		
Drawing Title			HIGHWAY CONSTRUCTION DETAILS		
Client			BOVIS HOMES		
Scale	Date	Designed			
N.T.S	AUG 18	RM			
Drawn	Checked	Approved			
JA	RM	TG			
Job No	Drawing No	Rev			
17-301	17-301/302	B			