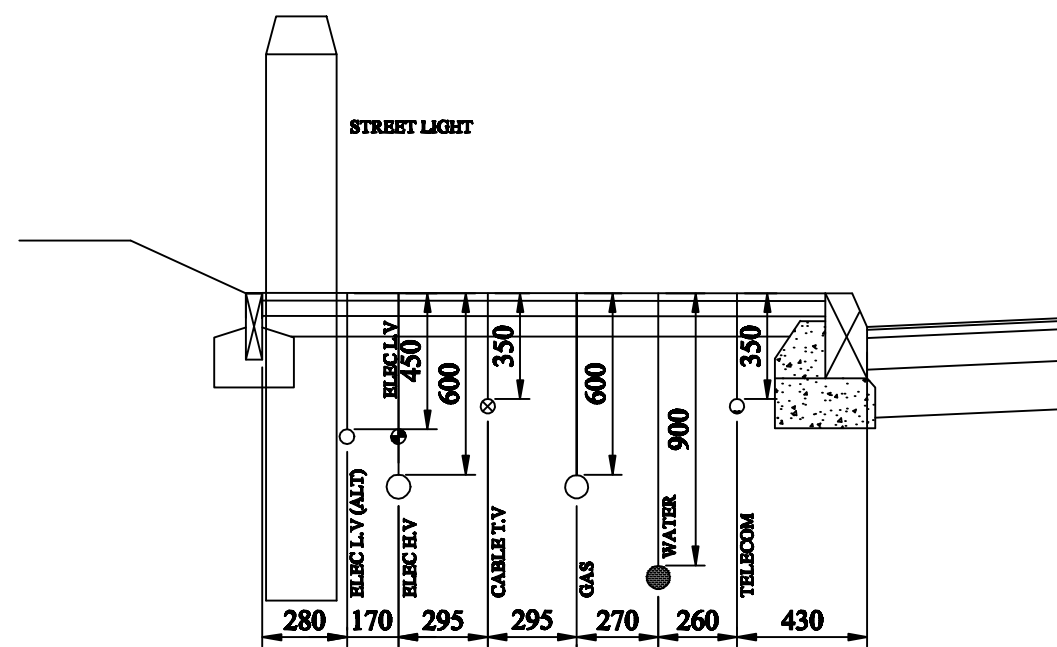
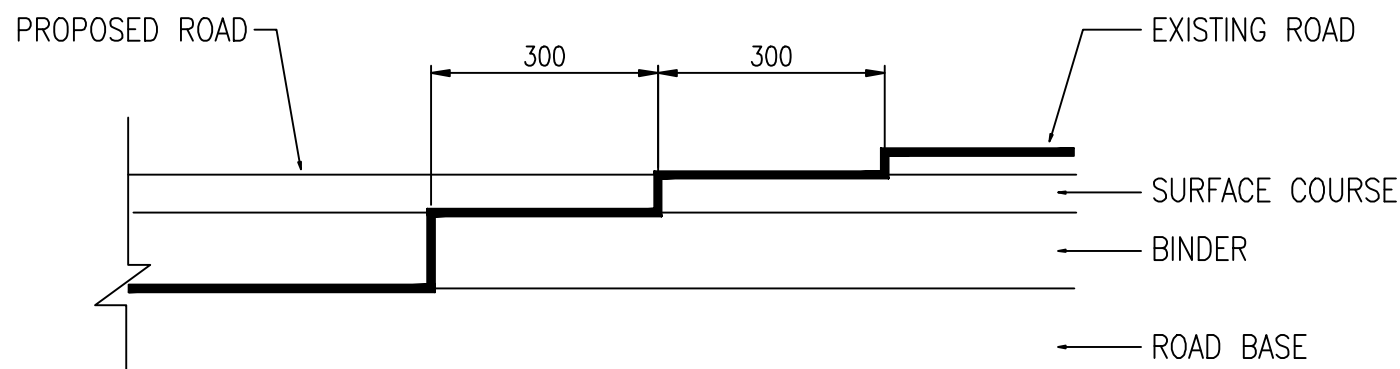




EXISTING SERVICE POSITIONS
(IDEAL SITUATION TO BE CONFIRMED ON SITE)

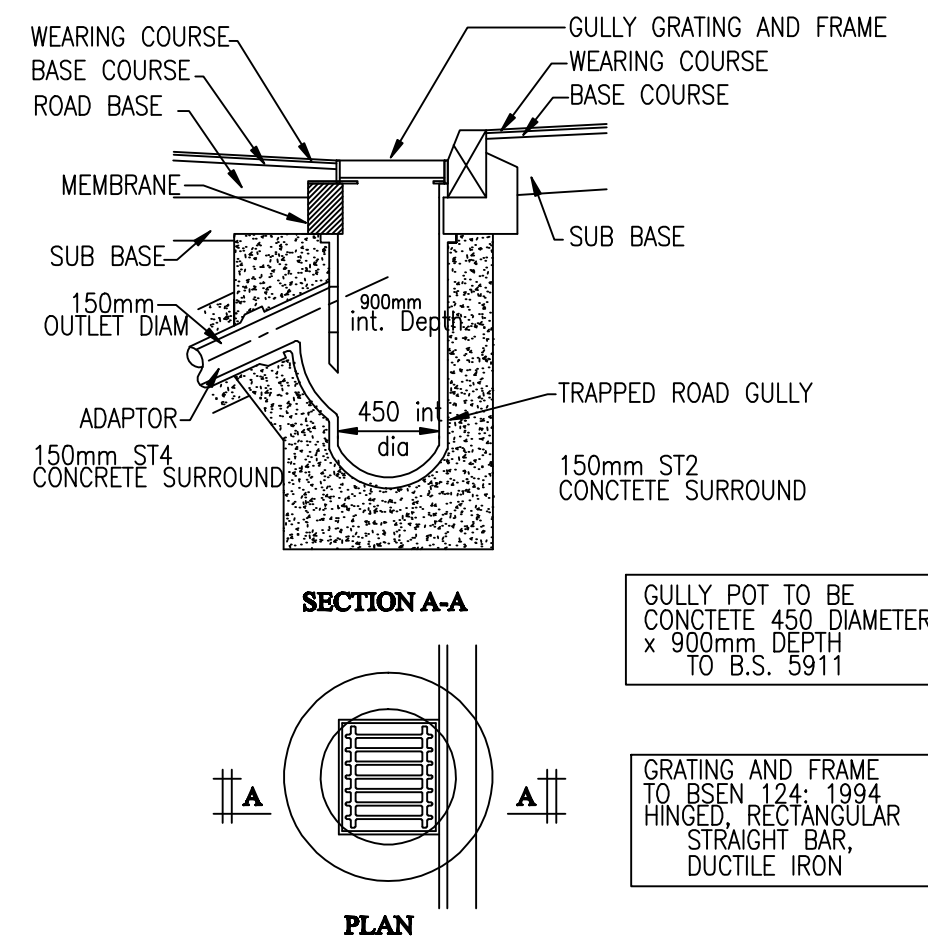


CONSTRUCTION TIE-IN TO EXISTING

UNDER CARRIAGEWAY
Backfill to underside of
formation with D.O.T.
Type 1, to clause 803

Granular Bedding
see note 1

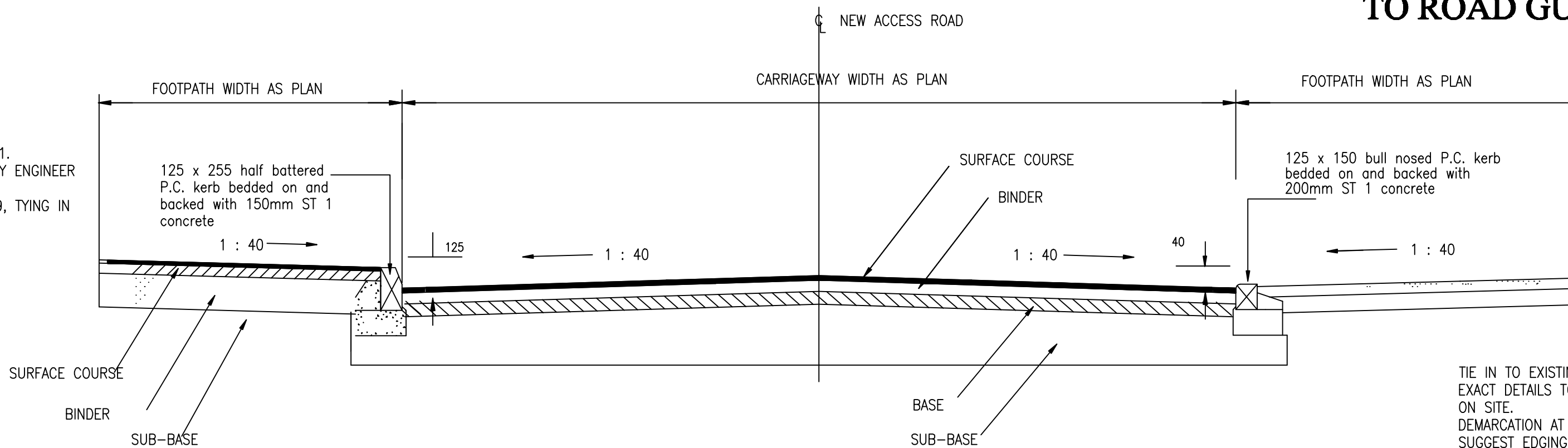
BEDDING CLASS S
TO ROAD GULLY OUTLET



TRAPPED GULLY DETAIL

IF NEW GULLY REQUIRED: NOT CURRENTLY SPECIFIED

TIE IN TO EXISTING BOUNDARY AT HOUSE 11.
EXACT DETAILS TO BE AGREED WITH HIGHWAY ENGINEER
ON SITE.
FOOTPATH TO CONTINUE AROUND TO PLOT 9, TYING IN
TO EXISTING BRICK WALL / PRIVATE DRIVES



TYPICAL SECTION NEW ACCESS ROAD

TIE IN TO EXISTING BRICK WALL AT HOUSE 18
EXACT DETAILS TO BE AGREED WITH HIGHWAY ENGINEER
ON SITE.
DEMARCATON AT GAP IN BRICK WALL TO BE AGREED.
SUGGEST EDGING DETAIL

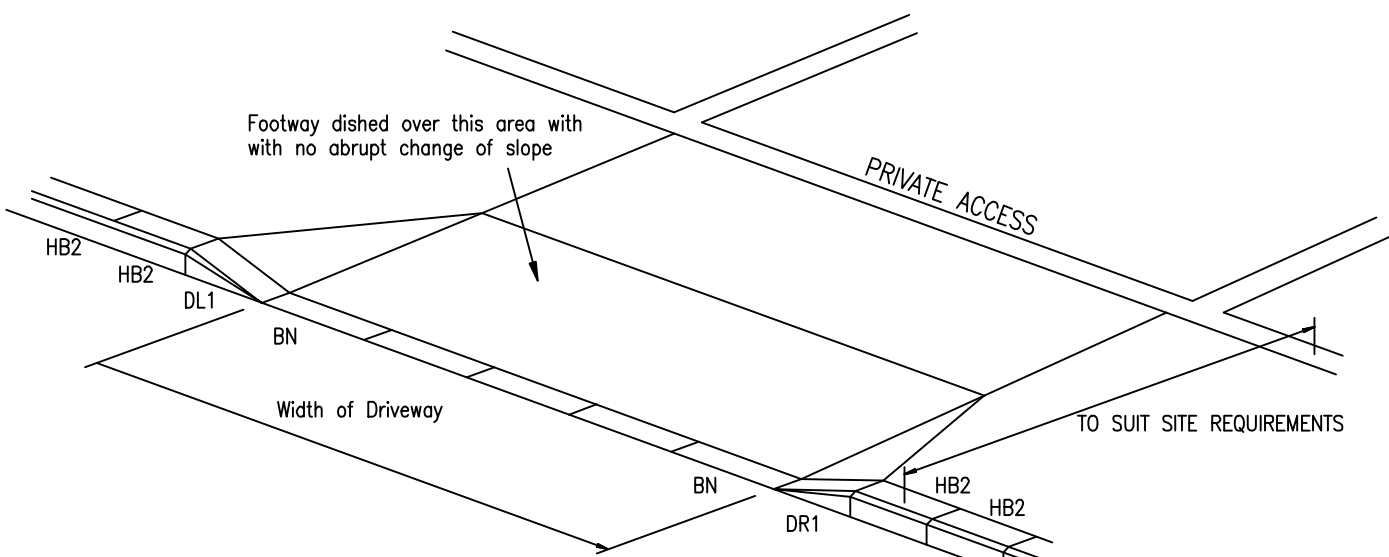
ROAD CONSTRUCTION DETAILS					
	MATERIAL	B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
				PSV	
SURFACE COURSE	STONE MASTIC ASPHALT (SMA) surface 40/60	SECTION 5	10mm	40mm	60
	HOT ROLLED ASPHALT SEE NOTE 5	SECTION 4	14mm	45mm	60
BINDER COURSE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	20mm	55mm	
BASE	ASPHALT CONCRETE BINDER 100/150	SECTION 1	32mm	100mm	
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	150mm	
CAPPING LAYER	Type 6F2	D.O.T.	-	350mm	
TOTAL THICKNESS (mm)				705mm	

* If CBR value is LESS than 2% , subbase thickness = 150mm capping layer = 600mm
If CBR value is GREATER than 5%, subbase thickness = 245mm. no capping layer

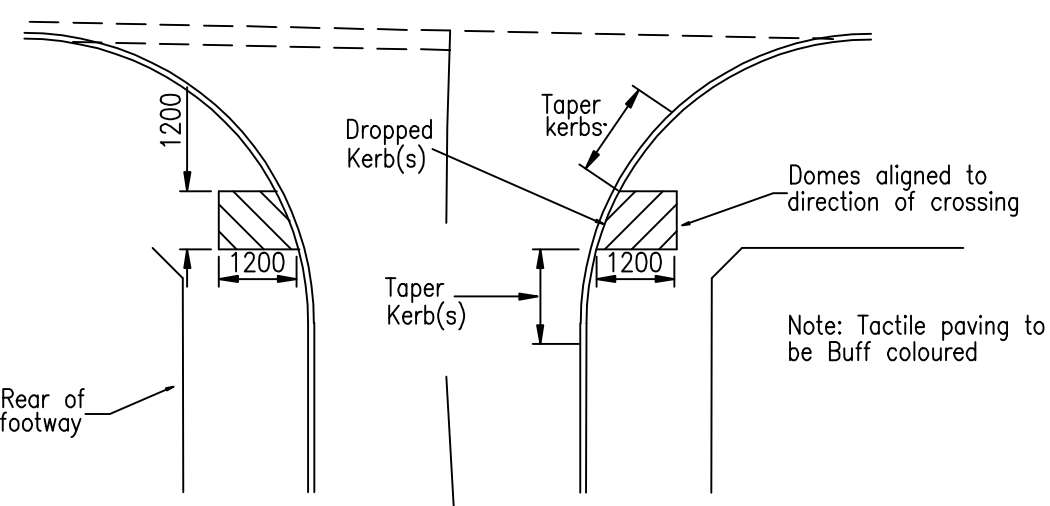
* Based upon a CBR value at road formation level of 3%
CBR TO BE CONFIRMED

FOOTPATH CONSTRUCTION DETAILS					
LAYER	MATERIAL	B.S. EN 13108 Section REF.	NOMINAL AGGREGATE SIZE	THICKNESS OF LAYER (mm)	
				FOOTPATH	VEHICLE CROSSOVERS
SURFACE COURSE	ASPHALT CONCRETE BINDER 160/220	SECTION 1	6mm	20mm	20mm
BINDER COURSE	ASPHALT CONCRETE BINDER 160/220	SECTION 1	20mm	40mm	60mm
SUB-BASE	Granular Type 1	D.O.T. Clause 803	-	100mm	150mm
TOTAL THICKNESS (mm)				160mm	230mm

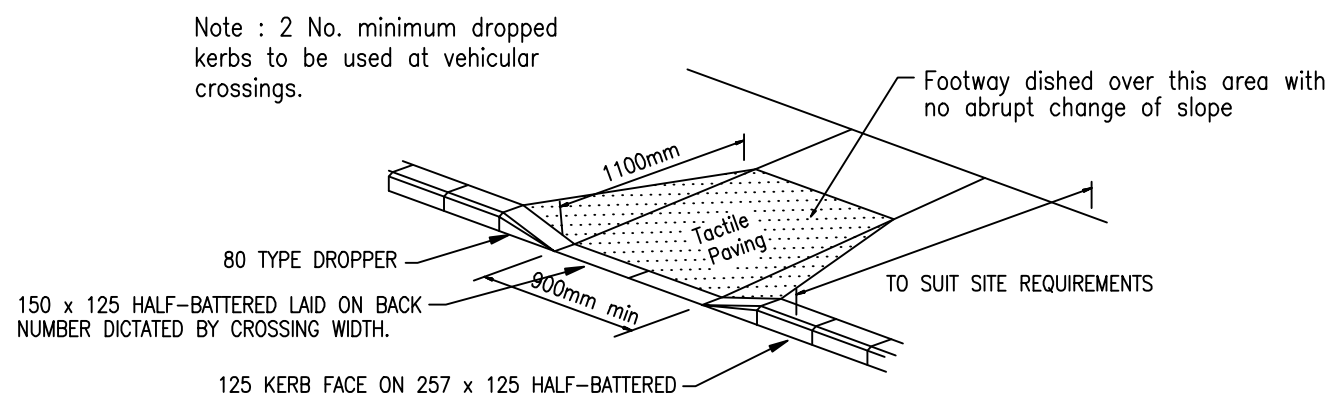
CAPPING/SUB-BASE THICKNESS		
CBR%	Capping	Sub-base
1.6-2.0	No Capping	150mm
2.1-2.5		150mm
2.6-3.0		150mm
3.1-3.5		350mm
3.6-4.0		325mm
4.1-4.5		300mm
4.6-5.0		275mm
5.1-6.9		250mm
7.0-8.9		225mm
9.0-10.9		210mm
11.0-12.9		195mm
13.0-14.9		180mm
-15.0		165mm
-15.0		150mm



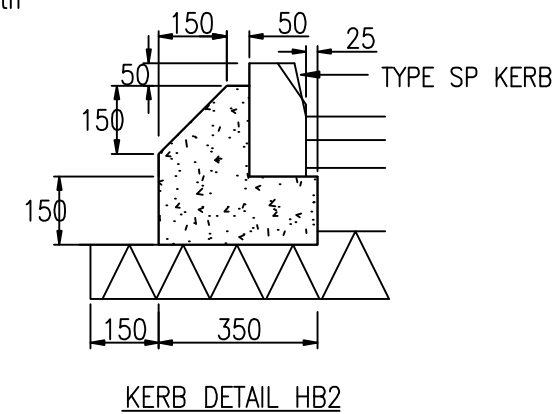
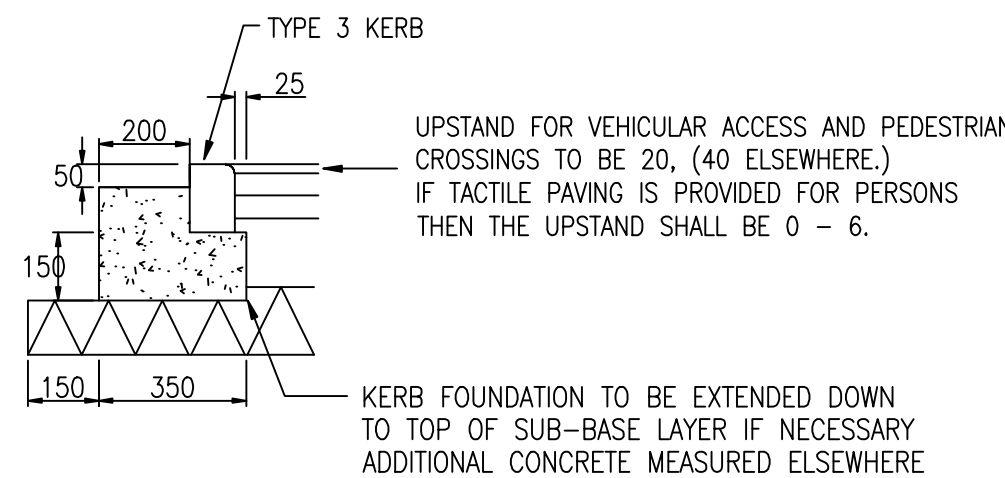
DETAIL OF DROPPED KERB
(VEHICULAR ACCESS)



UNCONTROLLED IN-LINE CROSSING
(TACTILE PAVING)
NTS



DETAIL OF DROPPED KERB
(PEDESTRIAN ACCESS)



GENERAL NOTES

- KERBS TO BE MANUFACTURED TO STANDARDS OF BS7263 PART 1.
- KERBS TO BE LAID ON 10mm DESIGNATION (ii) MORTAR ON PREPARED FOUNDATION. ALTERNATIVELY LAY KERBS ON WELL COMPACTED BED OF SEMIDRY CONCRETE, MAX 35 SLUMP, ALL IN ACCORDANCE WITH BS7263 PART 2.

NOTES

- All earthworks and road works shall comply with the requirements of the National Assembly for Wales Specification for Highway Works (SHW) including amendments, unless stated otherwise. Information below and elsewhere on this drawing are intended to comply with the latest specification. Should there be any discrepancies please contact Kane Design.
- All unreinforced concrete bedding and backing to kerbs and edgings shall be low slump designated mix GEN 0 or standard mix ST1 in accordance with BS 5328 : 1991
- Precast concrete kerbs and edgings shall comply with BS 7263
- Workmanship for concrete works shall comply with BS 8000 : Section 2 : 1990
- Hot Rolled Asphalt wearing course shall be to Clause 911 SHW, and to BS13108 Section 4: with 50% pen binder and minimum target binder content of 7.3%. At target binder content the minimum stability shall be 5500 N, the maximum flow 4mm and the minimum Marshall Quotient 1.4 N/mm . Coated chippings to clause 915 SHW, shall be 20mm nominal size and applied to give 1.5mm average texture depths when measured to clause 921 SHW and a 60% shoulder to shoulder cover at roundabouts. Minimum Polished stone value of chippings shall be 60mm.
- The use of crushed limestone rock shall not be permitted in any wearing course layer
- The rear edges of all footways must present smooth flowing alignments and should not undulate to accommodate private drives
- Sub-grade improvement (capping) layer material to be Class 6F2 to DOT Specification Clause 6/3
- The total carriageway thickness shall be a minimum of 450mm on frost susceptible sub grades.
- Service strips to be grass seeded using Mix A as defined by National Assembly for Wales Specification
- Sub-base thickness to be finalised at the time of construction after CBR testing of the road sub-base
- Road markings and signs refer to the "Traffic Signs Regulations and General Directions 2002" by the Department of Transport.

PENDING WREXHAM HIGHWAYS APPROVAL
PRELIMINARY

Rev	Description	Date	Drwn	Chkd
-----	-------------	------	------	------

KANE DESIGN

Civil Engineering Design

15 Winchester Road
Gresford
Wrexham
LL12 8HH
Tel: 01 978 855888

Client

HEED DEVELOPMENTS LTD

Project

PROPOSED DEVELOPMENT at
WERN SCHOOL, RHOS, WREXHAM

Title

OFF-SITE HIGHWAY WORKS
CONSTRUCTION DETAILS
SECTION 278

DRAWING NUMBER	SCALE	1:250
1216/202	DATE	25.01.14
	DRAWN	AK
	CHECKED	A.K
	REVISION	-