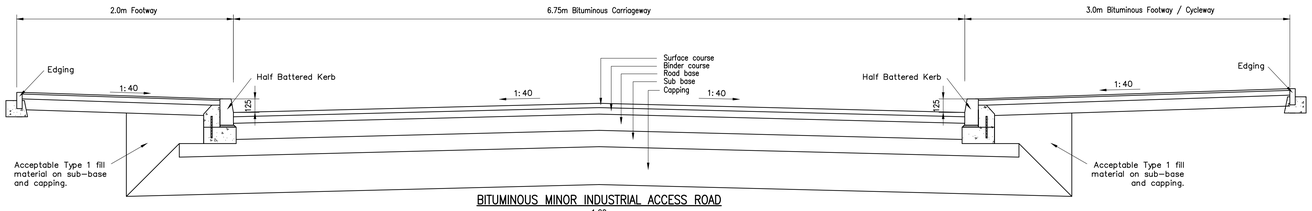
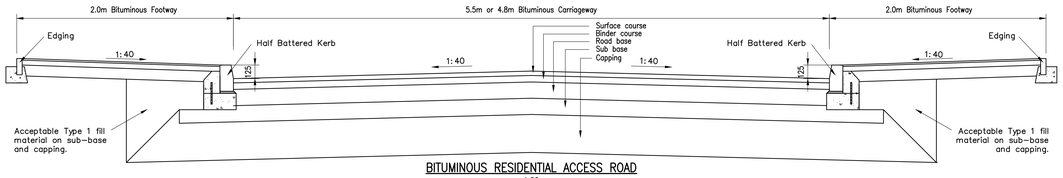


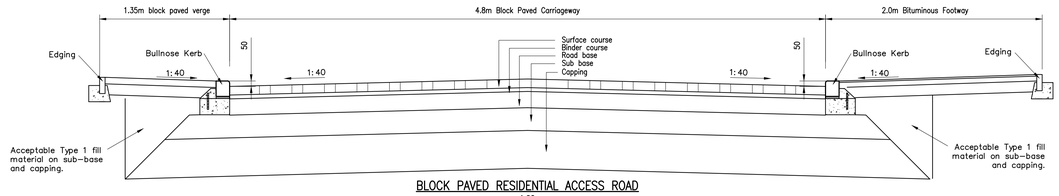
MAJOR INDUSTRIAL ACCESS ROAD
1:20



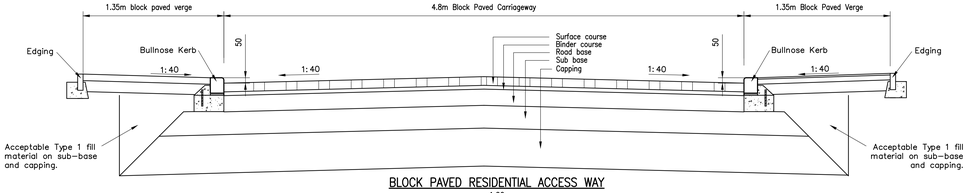
BITUMINOUS MINOR INDUSTRIAL ACCESS ROAD
1:20



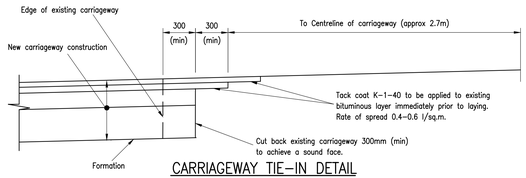
BITUMINOUS RESIDENTIAL ACCESS ROAD
1:20



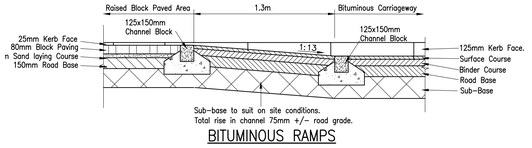
BLOCK PAVED RESIDENTIAL ACCESS ROAD
1:20



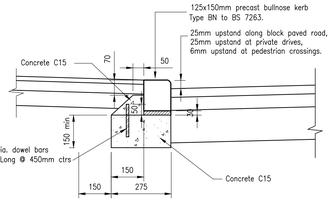
BLOCK PAVED RESIDENTIAL ACCESS WAY
1:20



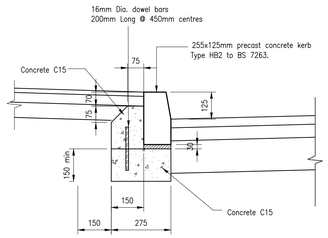
CARRIAGEWAY TIE-IN DETAIL
SCALE 1:20



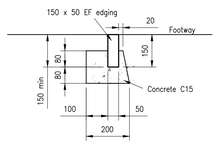
BITUMINOUS RAMPS
Scale 1:20



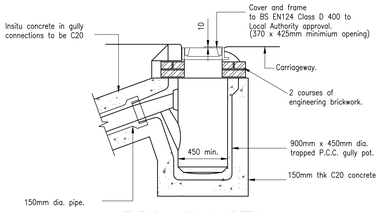
BULLNOSE KERB
SCALE 1:10



HALF BATTERED KERB
SCALE 1:10



FOOTWAY/VERGE EDGING DETAIL
SCALE 1:10



TYPICAL GULLY DETAIL
SCALE 1:20

NOTES:

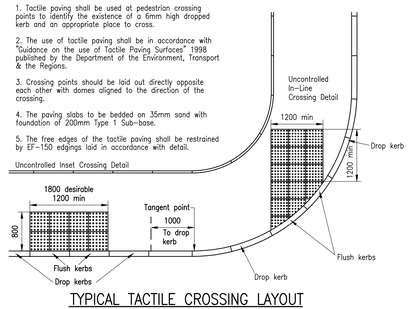
1. Tactile paving shall be used at pedestrian crossing points to identify the existence of a 6mm high dropped kerb and an appropriate place to cross.

2. The use of tactile paving shall be in accordance with "Guidance on the use of Tactile Paving Surfaces" 1998 published by the Department of the Environment, Transport & the Regions.

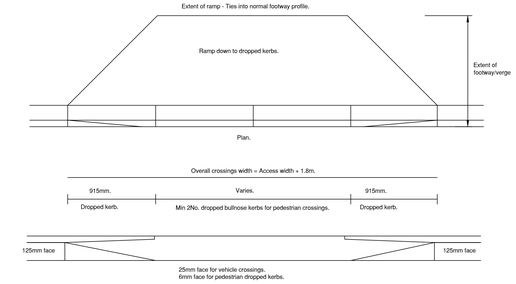
3. Crossing points should be laid out directly opposite each other with domes aligned to the direction of the crossing.

4. The paving slabs to be bedded on 35mm sand with foundation of 200mm Type 1 Sub-base.

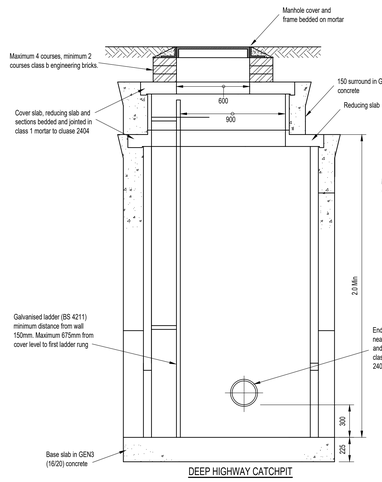
5. The free edges of the tactile paving shall be restrained by EF-150 edgings laid in accordance with detail.



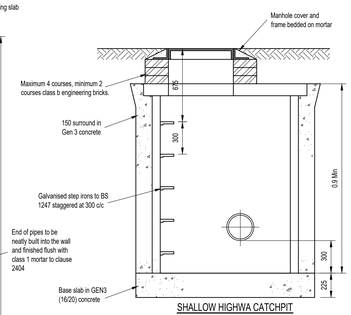
TYPICAL TACTILE CROSSING LAYOUT
Scale 1:50



VEHICLE / PEDESTRIAN / CYCLE CROSSING DETAILS
(Used with 125mm kerb upstand) Not to Scale



DEEP HIGHWAY CATCHPIT
DEPTH FROM C.L. TO SOFFIT 3.0m TO 6.0m
SCALE 1:20



SHALLOW HIGHWA CATCHPIT
DEPTH FROM GROUND LEVEL TO SOFFIT OF PIPE 1.5m TO 3.0m
SCALE 1:20

General Notes

1. Do not scale this drawing. If in doubt, ask.

2. This drawing is to be read in conjuction with all relevant Architect's, Engineer's and Specialist drawings and specifications.

3. All dimensions are in millimetres unless noted otherwise. All levels are in metres unless noted otherwise.

4. Any discrepancies noted on site are to be reported to the Engineer immediately.

5. The Contractor is responsible for ensuring that all works are to the satisfaction of the Engineer, and shall be deemed to have included in his rates for any necessary testing.

6. Bituminous spray to be applied to all existing surfaces where directly overlaid by bituminous material. Rate of spread to be 0.4-0.6 litres per square metre.

7. All works shall be carried out to the satisfaction of Derbyshire County Council and the KC's design guide.

8. Clauses refer to the Specification for Highway Works, unless otherwise stated.

GRASSED VERGE SPECIFICATION

SEED MIX
The following mixture of seed shall be used to produce low maintenance verge grass:- 30% Chewing Fescue 30% Slender Creeping Red Fescue 20% Smooth Stalked Meadow Grass 10% Hard fescue 10% Browntop Bent Seed shall comply with BS4428 Seed shall be laid and treated in accordance with Appendix 30/5 of 6C's Design Guide Specification for Highway Works for New Developments.

CARRIAGEWAY SPECIFICATION

	MAJOR / MINOR INDUSTRIAL ACCESS ROAD	RESIDENTIAL ACCESS ROADS	RESIDENTIAL ACCESS WAY	BLOCK PAVED ACCESS ROADS / RAISED AREAS	BLOCK PAVED ACCESS WAY
SURFACE COURSE	50mm HRA 34/14 F surf 40/60 des (20mm pre coates)	40mm SMA 10 surf 40/60 PSV55 MHA materials reference SC2 / 40mm HRA 55/10 F Surv 40/60 des MHA materials reference SC7 / 40mm AC 10 close surf 100/150 MHA materials reference SC11	40mm SMA 10 surf 40/60 PSV55 MHA materials reference SC2 / 40mm HRA 55/10 F Surv 40/60 des MHA materials reference SC7 / 40mm AC 10 close surf 100/150 MHA materials reference SC11	80mm Block Paving Marshalls "Keyblok" or similar approved. Blocks to be brindle colour laid in a herringbone pattern.	80mm Block Paving Marshalls "Keyblok" or similar approved. Blocks to be brindle colour laid in a herringbone pattern.
BINDER COURSE	60mm AC 20 dense bin 40/60 rec / 60mm AC HDM bin 40/60 rec	60mm AC 20 dense bin 100/150 rec MHA materials reference BC2	50mm AC 20 dense bin 100/150 rec MHA materials reference BC2	30mm Sharp Sand to BS 882	30mm Sharp Sand to BS 882
ROAD BASE	190mm AC 32 base 40/60 rec	150mm AC 32 base 40/60 rec MHA materials reference B1	110mm AC 32 base 40/60 rec MHA materials reference B1	150mm AC32 base 40/60 rec (Material ref B1) to BS EN 13108-1, to Cl 901.	110mm AC20 base 40/60 rec (Material ref BC1) to BS EN 13108-1, to Cl 901.
SUB BASE/CAPPING	SUB BASE – Type 1 material to clause 803 (thickness subject to insitu CBR results – see Figure 1) CAPPING – 6F2 material (thickness subject to insitu CBR results – see Figure 1)				

FOOTWAY & VEHICULAR CROSSING SPECIFICATION

	BITUMINOUS FOOTWAY	BITUMINOUS VEHICULAR CROSSING < 5 UNITS	BITUMINOUS VEHICULAR CROSSING > 5 UNITS	BLOCK PAVED RESIDENTIAL FOOTWAY/MARGIN	BLOCK PAVED VEHICULAR CROSSING < 5 UNITS	BLOCK PAVED VEHICULAR CROSSING > 5 UNITS
SURFACE COURSE	AC 6 dense surf 100/150 (MHA material reference SC12) (BS EN 13108-1). Both the above laid and compacted to Cl.901 (20mm thick)	AC 6 dense surf 100/150 (MHA material reference SC12) (BS EN 13108-1). Both the above laid and compacted to Cl.901 (20mm thick)	AC 6 dense surf 100/150 (MHA material reference SC12) (BS EN 13108-1). Both the above laid and compacted to Cl.901 (25mm thick)	60mm (min) thick Block Paving on 30mm bedding sand (compacted) to Leicestershire's Specification for precast concrete block paving. Pattern shall be 45° or 90° herringbone. Blocks to be in contrasting approved colour and agreed with the Highway Authority and Engineer.	60mm (min) thick Block Paving on 30mm bedding sand (compacted) to Leicestershire's Specification for precast concrete block paving. Pattern shall be 45° or 90° herringbone. Blocks to be in contrasting approved colour and agreed with the Highway Authority and Engineer.	60mm (min) thick Block Paving on 30mm bedding sand (compacted) to Leicestershire's Specification for precast concrete block paving. Pattern shall be 45° or 90° herringbone. Blocks to be in contrasting approved colour and agreed with the Highway Authority and Engineer.
BASE COURSE	AC20 dense bin 160/220 rec (MHA material reference BC3) to BS EN 13108-1. Both laid and compacted to Cl 901 (50mm thick)	AC20 dense bin 160/220 rec (MHA material reference BC3) to BS EN 13108-1. Both laid and compacted to Cl 901 (50mm thick)	AC20 dense bin 160/220 rec (MHA material reference BC3) to BS EN 13108-1. Both laid and compacted to Cl 901 (90mm thick)	70mm thick AC20 dense bin 160/220 rec to BS EN 13108-1. Both laid and compacted to Cl 901.	70mm thick AC20 dense bin 160/220 rec to BS EN 13108-1. Both laid and compacted to Cl 901.	90mm thick AC20 dense bin 160/220 rec to BS EN 13108-1. Both laid and compacted to Cl 901.
SUB BASE	160mm thick Type 1 Sub base to DTP Specification Cl 803 (225mm where CBR <2%)	225mm thick Type 1 Sub base to DTP Specification Cl 803	270mm thick Type 1 Sub base to DTP Specification Cl 803	150mm thick Type 1 Sub-Base to DTP Specification Cl. 803	150mm thick Type 1 Sub-Base to DTP Specification Cl. 803	270mm thick Type 1 Sub-Base to DTP Specification Cl. 803

C.B.R Value	Access Road 250mm (Bituminous layer thickness)		Access Way 200mm (Bituminous layer thickness)		Industrial Road 300mm (Bituminous layer thickness)	
	Capping	Sub base	Capping	Sub base	Capping	Sub base
<2%	550mm	200mm	500mm	250mm	600mm	150mm
2%	400mm	200mm	350mm	250mm	450mm	150mm
3%	300mm	200mm	250mm	250mm	350mm	150mm
4%	250mm	200mm	200mm	250mm	300mm	150mm
5%-15%	200mm	200mm	200mm	250mm	250mm	150mm
>15%		200mm		250mm		150mm

FIGURE 1

1. Where CBR value falls between values on the above table, corresponding construction thickness should be rounded down also.

2. Material within 450mm of the finished road surface must not be frost susceptible.

3. When the sungrade CBR is sufficiently below 2% that capping wit sub-base is not sufficient to support the pavement, special measures will be required

Rev.	Date	Amendments	By	Chk. by

PJS CONSULTING ENGINEERS

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Client: PEVERIL HOMES

Project: LILY STREET FARM - SWANWICK

Drawing Title: HIGHWAY CONSTRUCTION DETAILS

	Drawn	Checked	Status	Size & Scale
Initial	TN	PJS	Tender	A0 @ As Shown
Date	May 18	May 18		
Project No.	PJS17-22	Drawing No.	109	Revision .