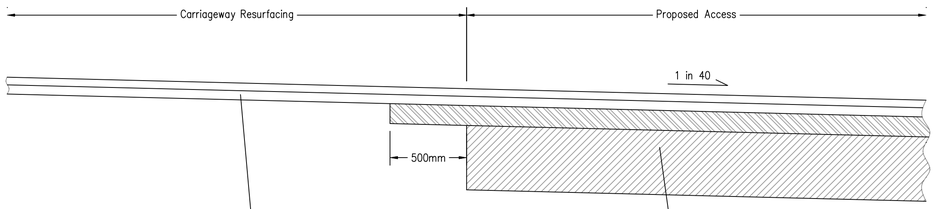
SECTION A – A



Area of existing carriageway impacted by the new layout of the access road frontage to be planed and resurfaced:
- Plane existing carriageway surface depth 110mm cold milling (planing)
- Clean planed surface of all loose material
- Spray with tack coat layer
- 50mm of 10mm stone mastic asphalt surface course SMA 10 surf 40/60
- 60mm of 0/20 AC 20 HDM bin 40/60

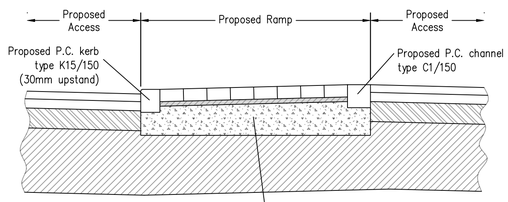
Proposed access carriageway construction:
- 50mm of 10mm stone mastic asphalt surface course SMA 10 surf 40/60
- 60mm of 0/20 AC 20 HDM bin 40/60
- 130mm of 0/32 AC 32 HDM base 40/60
- 420mm of Type 1 sub base assuming 2.5% CBR (see pavement foundation design table for further depths)

PAVEMENT FOUNDATION DESIGN

	SUB-BASE ON CAPPING			SUB-BASE ONLY
CBR %	CAPPING (mm) + SUB-BASE (mm)			SUB-BASE (mm)
< 2.5	Ground improvement will need to be considered to improve the subgrade CBR			
2.5	430	250	OR	420
3	380	230		370
4	320	220		320
5 – 15	260 – 160	200		280 – 210
> 15	150	200*		200*

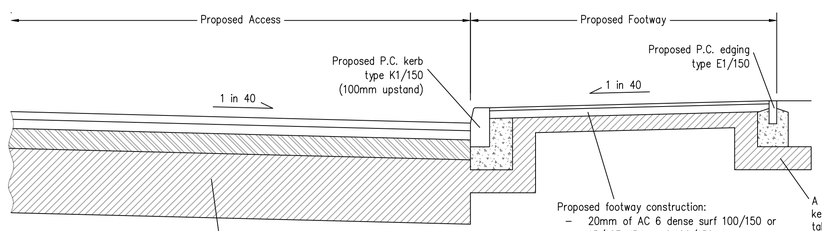
* Minimum required Type 1 sub-base thickness to achieve 450mm (from the designed final surface) of non-frost susceptible material

SECTION B – B



Proposed ramp construction:
- 80mm concrete block paviors (100 x 200 x 80)
- 30mm sand bedding course
- Grade ST5 concrete
- 420mm of Type 1 sub base assuming 2.5% CBR (see pavement foundation design table for further depths)

SECTION C – C

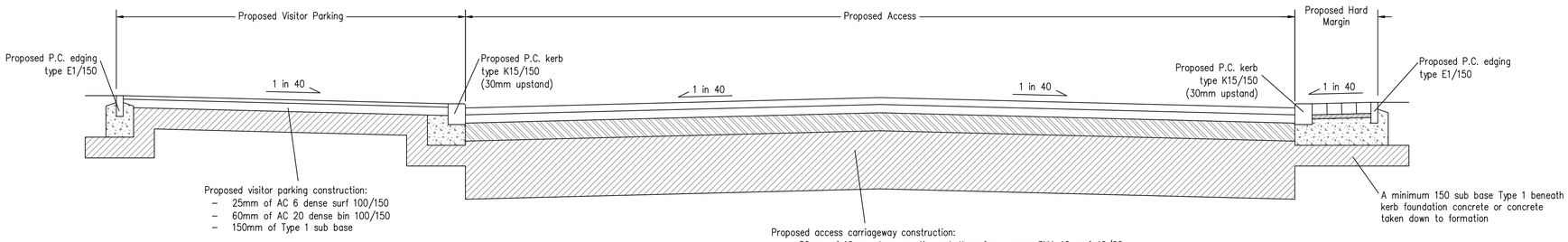


Proposed footway construction:
- 20mm of AC 6 dense surf 100/150 or 15/10F HRA surf 100/150
- 50mm of AC 20 dense bin 100/150
- 100mm of Type 1 sub base

A minimum 150 sub base Type 1 beneath kerb foundation concrete or concrete taken down to formation

Proposed access carriageway construction:
- 50mm of 10mm stone mastic asphalt surface course SMA 10 surf 40/60
- 60mm of 0/20 AC 20 HDM bin 40/60
- 130mm of 0/32 AC 32 HDM base 40/60
- 420mm of Type 1 sub base assuming 2.5% CBR (see pavement foundation design table for further depths)

SECTION D – D



Proposed visitor parking construction:
- 25mm of AC 6 dense surf 100/150
- 60mm of AC 20 dense bin 100/150
- 150mm of Type 1 sub base

A minimum 150 sub base Type 1 beneath kerb foundation concrete or concrete taken down to formation

Proposed access carriageway construction:
- 50mm of 10mm stone mastic asphalt surface course SMA 10 surf 40/60
- 60mm of 0/20 AC 20 HDM bin 40/60
- 130mm of 0/32 AC 32 HDM base 40/60
- 420mm of Type 1 sub base assuming 2.5% CBR (see pavement foundation design table for further depths)

General Notes

- This drawing should not be scaled for setting out purposes.
- This drawing shows the detailed design only and is subject to Local Authority approval.
- This drawing is based upon a topographical / ordnance survey provided by others.
- This drawing is to be read in conjunction with all other relevant drawings.
- Any conflict between the details shown on this drawing and those of any other related drawings should be noted to the engineer prior to construction on site.
- All dimensions are in millimetres unless otherwise stated.

Construction Notes

- All levels to be confirmed on site prior to commencement of any works.
- Any existing utility covers retained are to be adjusted to suit proposed levels – cover class to be upgraded if required.
- Any existing utility covers that are damaged will require renewing and resetting.
- Gullies located in shared use surfaces must have suitable pedestrian and cyclist friendly covers. The openings in gully gratings must not align with cyclists anticipated wheel tracks.
- Any soft areas will require excavating until firm ground is found and backfilling with a 6F2 material and to be compacted in 150mm layers.
- Proposals assume a CBR of 2% – CBR tests to be undertaken by others for actual values and construction altered to suit.

Kerbing Notes

- Suitable transition kerbs shall be used at all changes in kerb face.
- For radii of 12m or less – kerbs of the appropraite radius shall be used. For radii 12m and above – straight kerbs 600mm long shall be used.
- The length of any kerb shall not be less than 450mm.

PARAGON HIGHWAYS

PROJECT TITLE
FORMER ROSE & CROWN INN, KNOWL ROAD, GOLCAR

DRAWING TITLE
CROSS SECTIONS

DRAWING NUMBER

ORIGINATOR	PROJECT	VOL.	TYPE	ROLE	NUMBER
PRGN –	2376 –	HGN –	DR –	CH –	0004

CLIENT
SOVEREIGN DEVELOPMENT GROUP LTD

SCALE	SIZE	DRAWN	CHECKED	AUTHORISED	DATE
NTS	A1	AH	LO	AH	NOV 24

PARAGON HIGHWAYS
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