



कायालय प्रमुख अभियन्ता एवं विभागाध्यक्ष,
लोक निर्माण विभाग उत्तराखण्ड देहरादून

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दिनांक 20/8/13

कायालय द्वारा

एतद् द्वारा उत्तराखण्ड राज्य में लोक निर्माण विभाग उत्तराखण्ड द्वारा निर्मित किए जाने वाले पैदल मार्गों की विधिबद्धियां जारी की जा रही है। अधिष्ठाता पैदल मार्गों हेतु Cement Concrete Pavements का निर्माण नार्क कर केवल संलग्न विधिबद्धियों के अनुसार Stone Pavements का ही निर्माण किया जायेगा। तीर्थस्वर्णों हेतु एक आपत काल निकाली मार्ग (Emergency Exit Route) का भी प्राविधान किया जाना अनिवार्य होगा, जिसकी विधिबद्धियां उपरोक्त विधिबद्धियों के अन्तर्गत ही होगी।

प्रतिबद्धि विनिर्दिष्ट को सूचनाएँ एवं आवश्यक कारवाही हेतु प्रेषित :

1. प्रमुख सचिव, वित्त उत्तराखण्ड शासन।
2. प्रमुख सचिव, लोक निर्माण विभाग उत्तराखण्ड शासन।
3. प्रमुख सचिव, नियोजन, उत्तराखण्ड शासन।
4. अपर सचिव, लोक निर्माण विभाग उत्तराखण्ड शासन।
5. मुख्य अभियन्ता ग्रामीण अभियन्ता सेवा, देहरादून।
6. मुख्य अभियन्ता/विभागाध्यक्ष सिंचाई विभाग, देहरादून।
7. प्रबंध निदेशक, पैदल निर्माण, देहरादून।
8. मुख्य अभियन्ता श्री०एमजी०एस०वाइ०/१०डी०बी० ली०नि०वि०, पीडी/अन्तर्स्था/देहरादून।
9. समस्त अधीक्षण अभियन्ता, स्थिति एवं वि०या० लोक निर्माण विभाग उत्तराखण्ड। अधीक्षण अभियन्ता अपने स्तर से अधीक्षाधी अभियन्ताओं को उपलब्ध करना सुनिश्चित करें।
10. अधीक्षाधी अभियन्ता टी०ए०सी० वित्त विभाग, उत्तराखण्ड शासन।
11. वरिष्ठ स्टाफ आफिसर I, II/अधीक्षाधी अभियन्ता III III IV V VI कायालय मुख्य अभियन्ता स्तर-1, ली०नि०वि० देहरादून।
12. कनिष्ठ अभियन्ता (प्र०), कायालय विभागाध्यक्ष, लोक निर्माण विभाग, देहरादून।

प्रमुख अभियन्ता
लोक निर्माण विभाग देहरादून

SPECIFICATIONS FOR BRIDLE ROADS

GEOMETRIC STANDARDS :

S.No.	Items	Specifications
1	Road land width in open areas	3.0 m
2	Formation width :	1.8 m
3	Radius of curves (Minimum)	5.0 m
4	Widening at sharp curves upto 3m radius	1.0 m
5	Cross slope/Camber	3 to 4%
6	Minimum radius at H.P. bends	3.0 m
7	Gradients :	1 in 8
	a. For ghat tracing	1 in 8
	b. Ruling	1 in 6
	c. Limiting	-
	d. Exceptional (not more than 30m length)	1 in 4
8	Drains	0.30 m
9	Scuppers	1m span, 3 to 10 Nos per km
10	Bridges and culverts :	400kg/sqm
	a. Design load	4.0 m
	b. Clear roadway between kerbs	400kg/sqm
11	Surface	Stone paving
12	Shoulders	Earthen shoulders of minimum width 30 cm on valley side

CONSTRUCTION OPERATIONS:

A. SUBGRADE /BASE :

The subgrade shall be prepared to the levels and slopes shown on drawings and compacted with rammers or other means, where required, to have an even bedding. Before laying the stones for pavement construction, the subgrade shall be thoroughly inspected by the Engineer-in-Charge to ensure:

- a) There are no loose pockets and unfilled depressions left in the subgrade.
 - b) The soil at the subgrade level is properly compacted to the line and level.
- A crushed stone base or dry kharanja of 10 cm thickness shall be provided over the prepared subgrade.

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B. STONE PAVING:

The pavement shall be made using stones of size not less than 20 cms x 20 cms and thickness varying from 10 cms to 15 cms. The size of the stones shall be such that they can be lifted and placed by hands. The stones shall be hard, sound, free from cracks, decay, weathering defects like cavities, flaws, sand holes, and patches of loose or soft materials or other similar defects that may adversely affect their strength or appearance. They shall be hammer dressed on all the sides to form an almost rectangular or square shape, except the bottom face which will rest on the subgrade.

The stones shall be bedded on a 2.5 cm thick bedding layer of PCC 1:1.5:3 using a taut string line or a straight edged timber as a guide to line and level. The stones shall be placed leaving 4 to 8 cms wide staggered joints. These joints shall then be filled with 1:1.5:3 (Cement : Fine aggregate : 20 mm Size Coarse Aggregate) Cement Concrete mix in such a way that the level of stones is 3 to 5 mm higher than the level of concrete.

After 24 hours, the curing shall be started for the concrete used in the pavement and shall continue for a period of not less than fourteen days from the date of placing concrete.

C. DRAINAGE:

30 cms wide drain shall be provided on the hill side throughout the length of the road. 10 cms to 15 cms wide water cutoffs (Pankatta) of PCC 1:1.5:3 and sloping towards the valley side shall be provided at a regular interval of 10 m to 15 m throughout the length of the road.

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TYPICAL DRAWING FOR BRIDGE ROAD

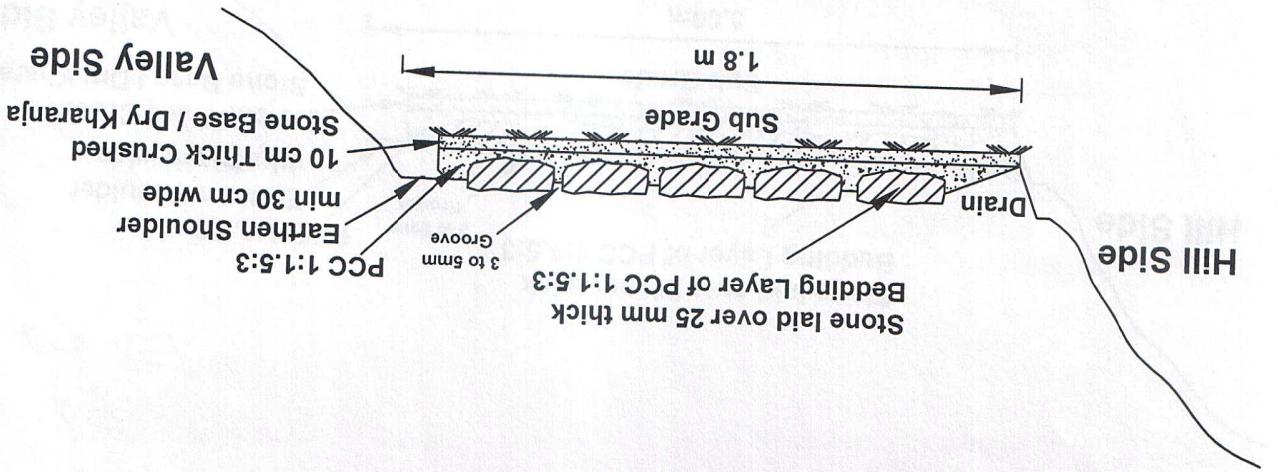
(General)

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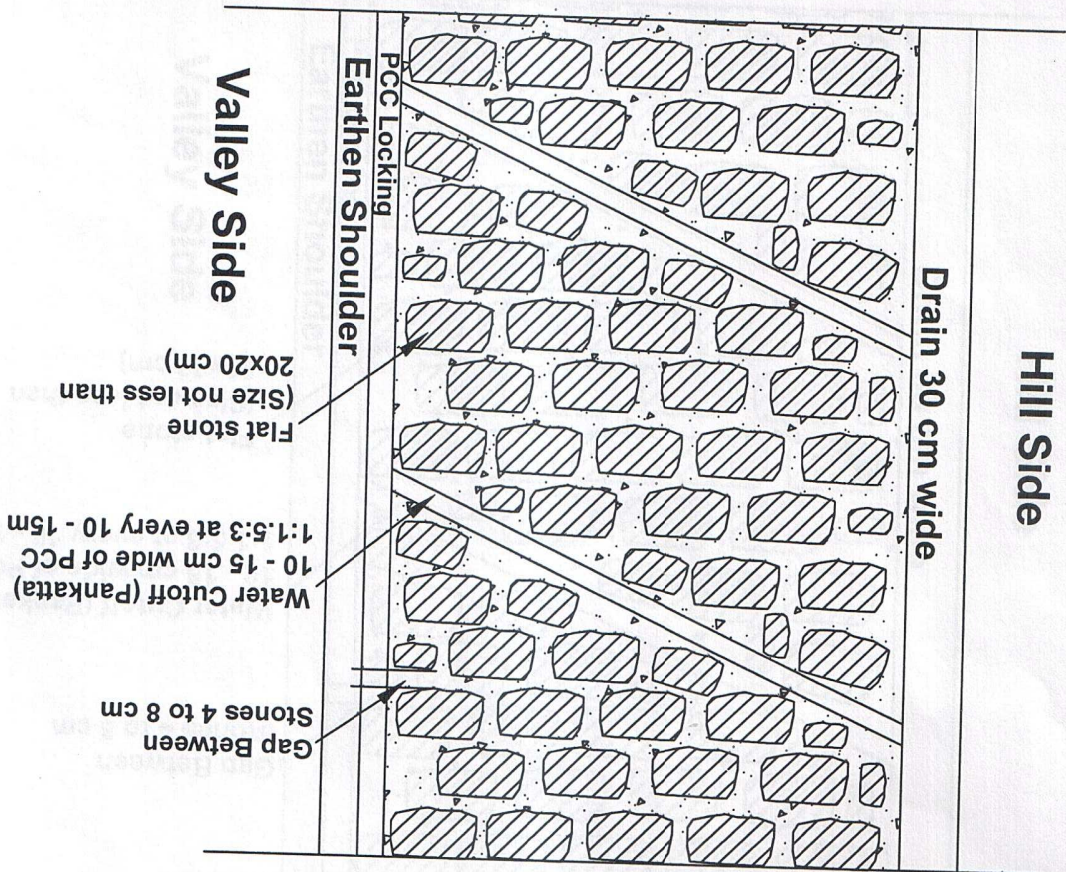
Typical Drawing For Bridle Road (General)

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X-Section



Plan



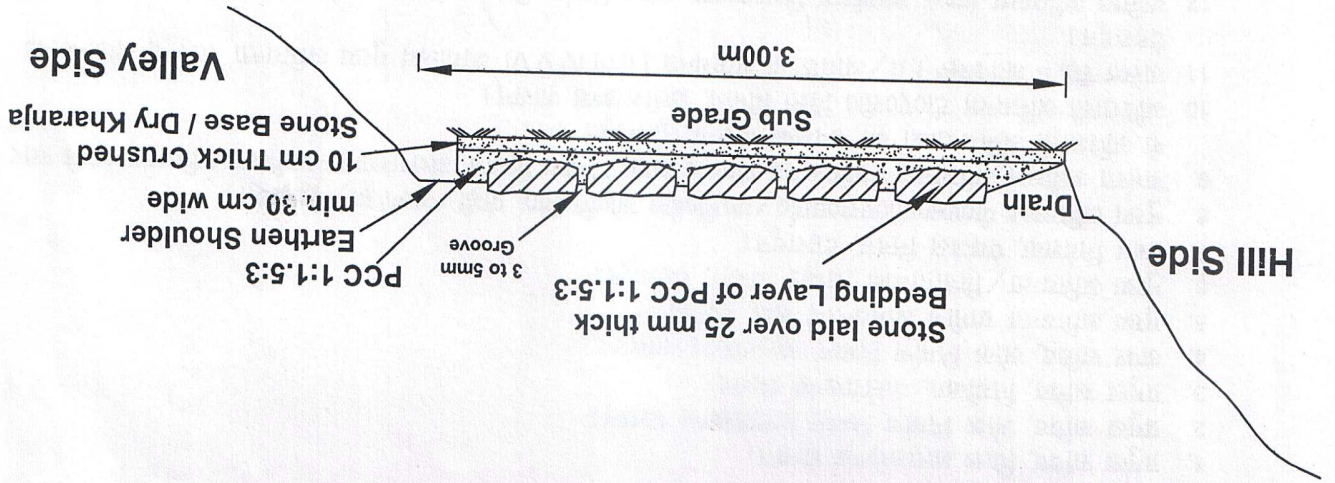
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Typical Drawing For Bridle Road

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Plan

