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CHAPTER 21

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* Indicates 11 x 17 sheet; all others are 8½ x 11.

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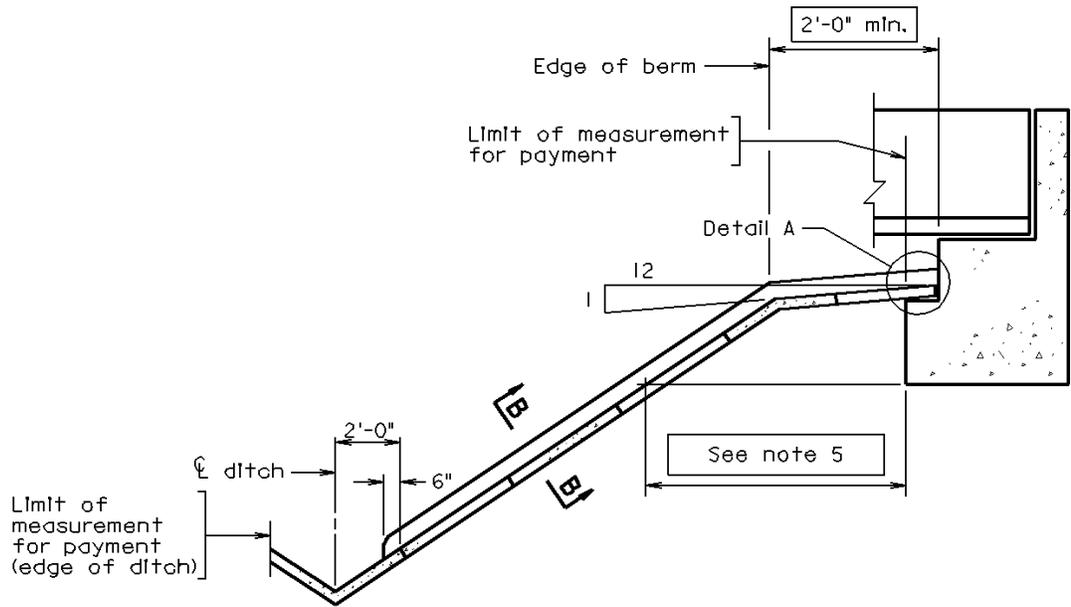
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This chapter is under development and will be revised at a later date.

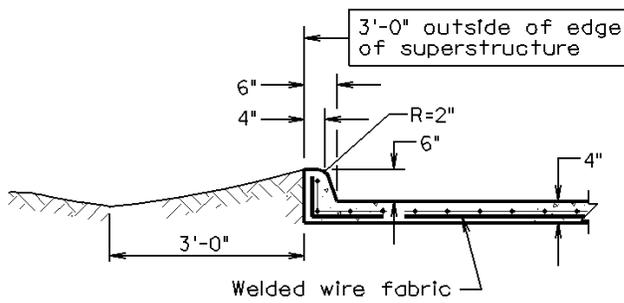
Data in this chapter is provided for use until revisions are complete.

**SLOPE PROTECTION
INTRODUCTION – CHAPTER 21**

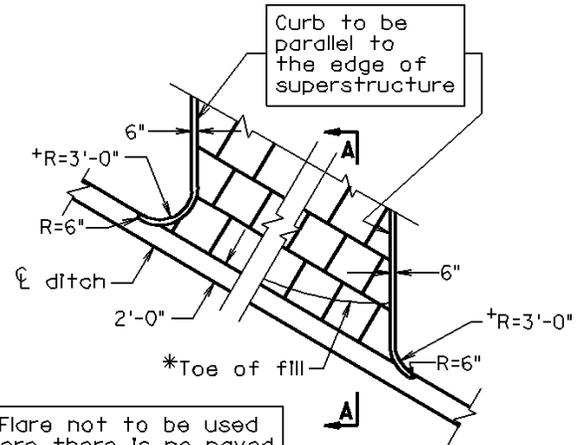
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SECTION
(Normal to Abutment)



SECTION B-B



+ Flare not to be used where there is no paved ditch.

*Where applicable

PART PLAN

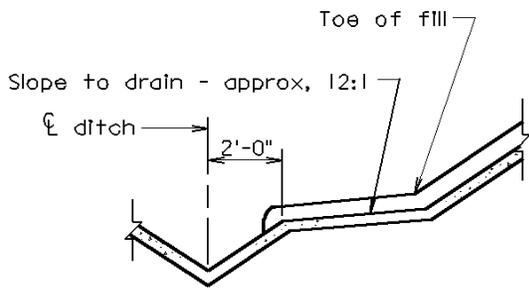
Notes to designer:

1. Information in boxes is for designer information only and is not to be placed on plans.
2. For use at highway grade separation structures and at railroad overpasses when requested by railroad company.
3. Length of slope protection for estimating to be measured along top surface between limits shown. Limits are to be shown on plans.
4. For parallel overpasses. Slope protection between structures should be considered when the edges of road pavements are 50 feet or less apart.
5.

Slope	Spread footing	Footing on piles
1 1/2 : 1	8' minimum	6' minimum
2 : 1	10' minimum	8' minimum
6. For Detail A and Section A-A, see File No. 21.100-2.

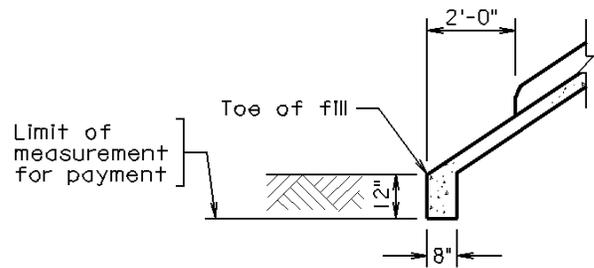
**SLOPE PROTECTION
CONCRETE SLAB SLOPE PROTECTION**

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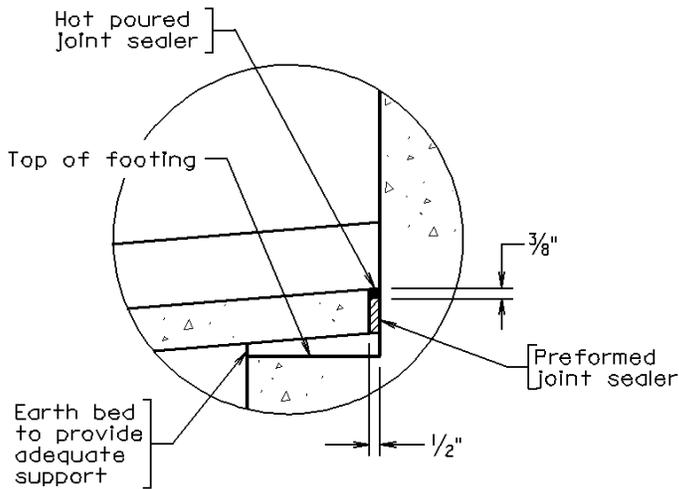
SECTION A-A

For use with paved ditch



ALTERNATE SECTION A-A

For use where there is no paved ditch

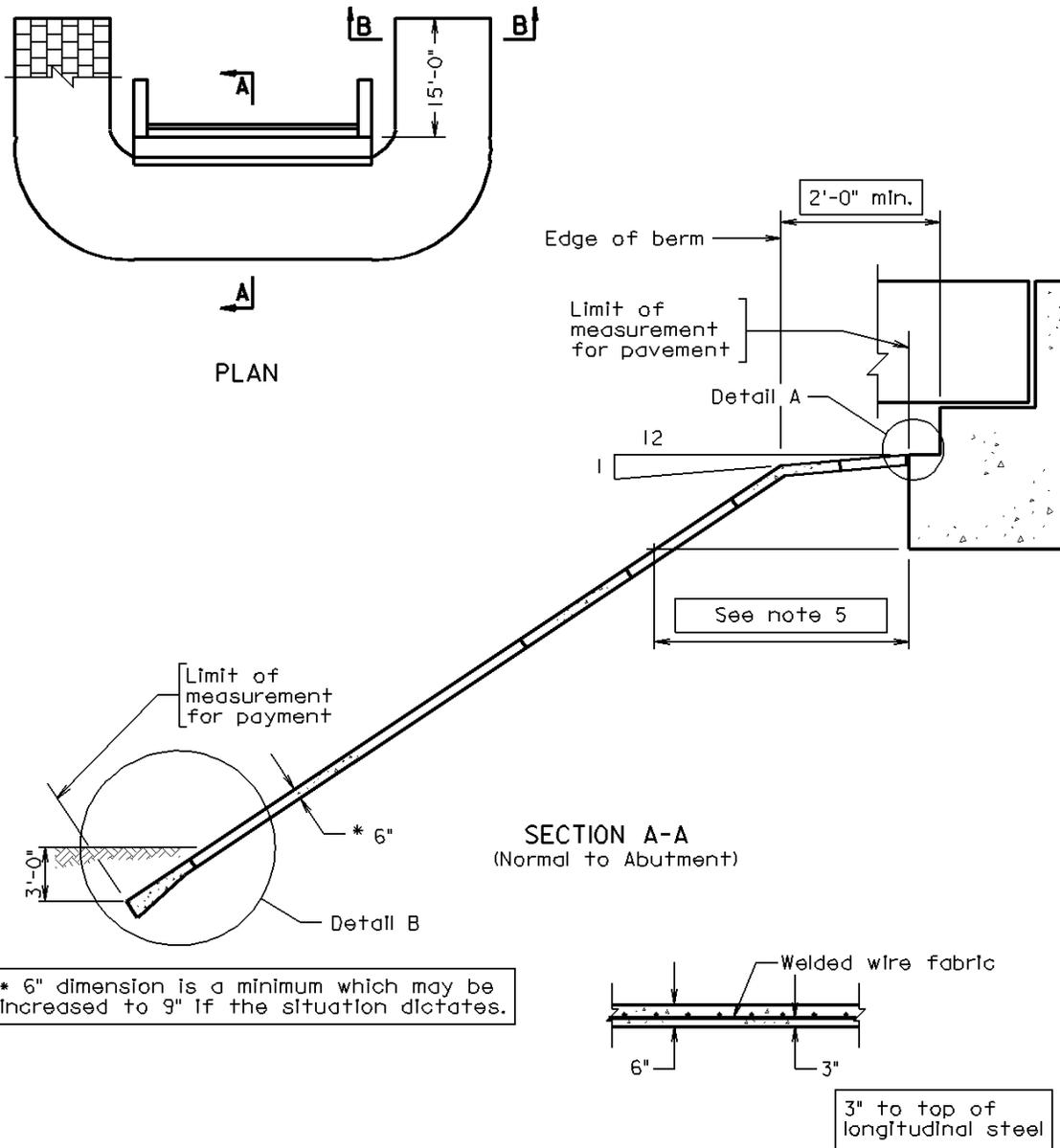


DETAIL A

For notes to designer, see File No. 21.100-1.

**SLOPE PROTECTION
CONCRETE SLAB SLOPE PROTECTION**

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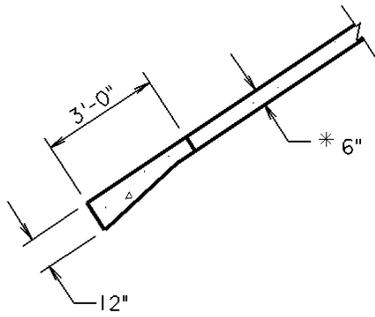
* 6" dimension is a minimum which may be increased to 9" if the situation dictates.

Notes to designer:

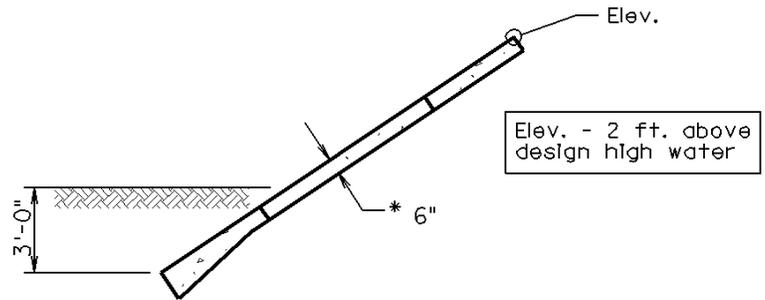
- Information in boxes is for designer information only and is not to be placed on plans.
- For use at stream crossings. Class I Dry Riprap over Geotextile Fabric is an acceptable alternate.
- Length of riprap for estimating to be measured along top surface between limits shown. Limits are to be shown on plans.
- For parallel overpasses. Riprap between structures should be considered when the edges of road pavements are 50 feet or less apart.
- | Slope | Spread footing | Footing on piles |
|-----------|----------------|------------------|
| 1 1/2 : 1 | 8' minimum | 6' minimum |
| 2 : 1 | 10' minimum | 8' minimum |
- For Detail A, Detail B and Section B-B, see File No. 21.100-4.

**SLOPE PROTECTION
CONCRETE SLAB RIPRAP**

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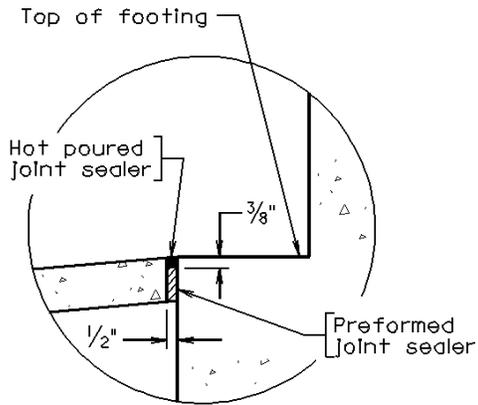


DETAIL B



SECTION B-B

* 6" dimension is a minimum which may be increased to 9" if the situation dictates.



DETAIL A

For notes to designer, see File No. 21.100-3.

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CONCRETE SLAB RIPRAP**

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