

INTEROFFICE MEMORANDUM

Date: April 2, 2003

TO: Bridge Division Personnel

FROM: Phil Brand, Bridge Engineer *Phil Brand*

SUBJECT: Base Plates for Safety Cable System  
Steel and Prestressed Precast Beams

Jensen Construction Company has submitted the attached proposal for base plates, to accommodate the posts of a safety cable system, to be installed on steel or prestressed precast beams. The proposal includes the base plates to be detailed on the fabricator's drawings and to be installed in the fabricator's shop.

The proposal was approved in the attached April 2, 2003 memo subject to stated conditions. Please use this memo to assist your review of the fabrication drawings.

CJF  
Attachments

*(G)*  
CJF  
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Pretty slick!  
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## INTEROFFICE MEMORANDUM

**Date:** April 2, 2003

**TO:** Mr. Allan Holmes, State Construction Engineer

**FROM:** Phil Brand, Bridge Engineer



**SUBJECT:** Base Plates for Safety Cable System  
Steel and Prestressed Precast Beams

Jensen Construction Company has submitted the attached proposal for base plates, to accommodate the posts of a safety cable system, to be installed on steel or prestressed precast beams. The proposal includes the base plates to be detailed on the fabricator's drawings and to be installed in the fabricator's shop.

The proposal is acceptable subject to the following conditions:

1. For steel beams, the base plates may be welded in the longitudinal direction in compression areas and in tension areas where shear connectors are used. The length of the welds shall not be less than 1 ½" nor greater than 2" with a minimum 1 ½" between the ends of each weld. The end of the weld shall be a minimum ¼" from each corner of the base plate.
2. For prestressed precast beams, the base plate stud shall not interfere with the beam's strands or reinforcing steel.
3. The base plate or 2 ½" diameter pipe shall not interfere with the proper vertical position of the deck reinforcing steel. The pipe shall be removed from the base plate prior to placing concrete or, if left in place, the pipe shall have a minimum of 2 ½" of concrete cover.
4. The base plate and 2 ½" diameter pipe, if left in place, shall be free from dirt, grease, rust, or other foreign substance before the deck is poured.
5. Care shall be exercised so as air voids do not exist in the 2 1/2" diameter pipe after placement of the deck concrete.

The design of the safety cable system and the spacing of the base plates shall be the complete responsibility of the Contractor.

CJF  
Attachment

# Jensen Construction Company

11301 West 57th Street / Sand Springs, Oklahoma 74063 / Tel. (918) 245-6691  
P.O. BOX 9919 / Tulsa, Oklahoma 74157 / Tel. (918) 245-6691 / Fax: (918) 241-9697

March 10, 2003

Arkansas Highway & Transportation Department  
801 Eureka Garden Road  
P.O. Box 17329  
North Little Rock, AR 72117

Attention: Jerry Trotter

Reference: State Job #B60117  
Pulaski County

Dear Mr. Trotter,

The safety of our employees is one of our most important concerns. We are constantly trying to find new, better, and innovative ways to protect our employees. Being a bridge contractor, fall protection is a very important area of concern. We feel that the following request will help us to make our fall protection not only better, but more efficient as well.

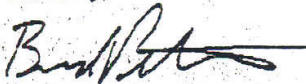
We install safety cables on bridge beams as we erect them for our employees to tie-off to during erection, as well as during the decking process. The current method we use to attach the posts to the beams is effective, but it is cumbersome and time-consuming to install at the job site. We have come up with an attachment system that lends itself well to both steel and concrete beams, with very little modification. This system will allow most of the attachment to occur at the beam fabricator's shop, which will make a better attachment and make our field operations more efficient.

The attached sketches detail our proposed safety line system. We request that our fabricator be allowed to shop-install the bases for our safety posts. We intend to have the bases detailed on the girder shop drawings to make this process as easy as possible.

Please review this request at your earliest convenience.

If you have any questions, please feel free to call me at 918-245-6691. Thank you.

Sincerely,



Brad Peterson  
Project Coordinator

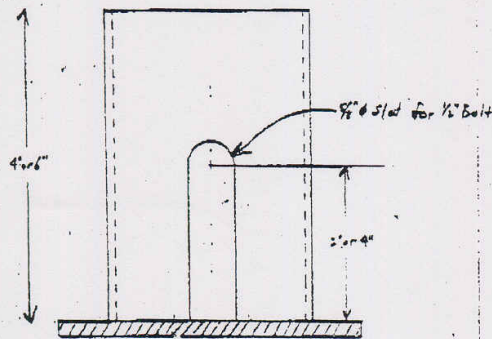
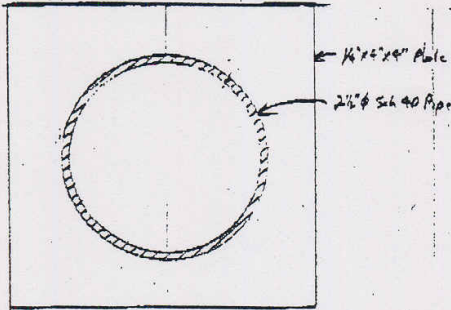


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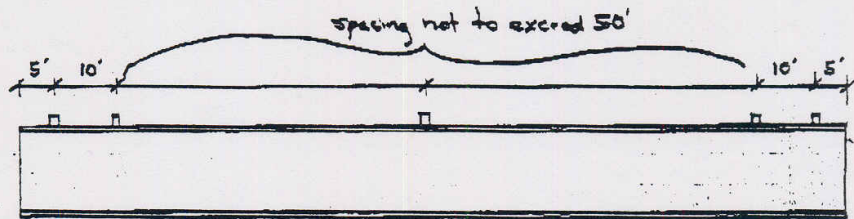
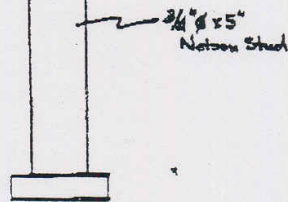
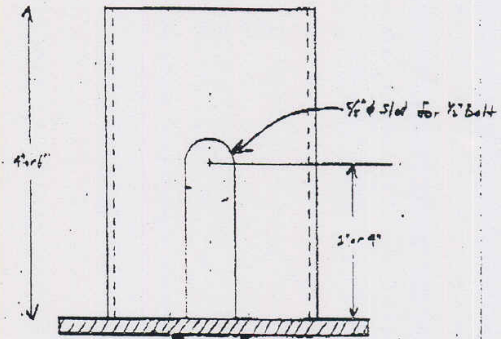
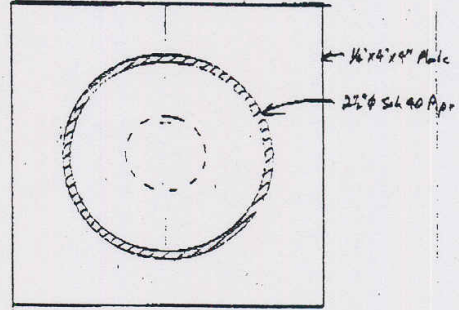
SAFETY LINE SYSTEM  
Base Details

SAFETY LINE SYSTEM

BASE ON STL BMS



BASE ON PPC BMS



BASE LOCATION

22-111 30 SHEETS  
22-142 130 SHEETS  
22-143 200 SHEETS



Safety Line  
Base Location Details

22-141 30 SHEETS  
22-142 40 SHEETS  
22-143 209 SHEETS

