



**VALUE ENGINEERING CHANGE PROPOSAL
MISSOURI DEPARTMENT OF TRANSPORTATION**

Conceptual Proposal **Final Proposal**

Date 6-12-2009

Contract ID 090424-7A4

Job No. J7P0797C & D

County Barton 71

Original Bid Cost 7,349,098.49

Contractor Burk Bridge Co.

By Larry Burk

Designed By _____

Phone 417-865-1683

VECP# 09-56 (to be completed by C.O.)

VECP or PDVECP

1. Description of existing requirements and proposed change(s). Advantages/Disadvantages

I would like to propose to drive the 10" H-pile at the End Bents on Br. No. A7701 & Br. No. A7688 prior to the MSE walls being built at these locations. This would eliminate the need for the corrugated metal pipe pile spacers under lines number 0880 and 1860.

2. Estimate of reduction in construction costs. 12,000.00

3. Prediction of any effects the proposed change(s) will have on other department costs, such as maintenance and operations.
none

4. Anticipated date for submittal of detailed change(s) of items required by Section 104.6 of the Specifications.

(date)

5. Deadline for issuing a change order to obtain maximum cost reduction, noting the effect of contract completion time or delivery schedule.

7-31-09
(date)

Delay start of MSE wall Construction
(effect)

6. Dates of any previous or concurrent submission of the same proposal.

(date and/or dates)

Additional Comments:

**** Portion Below This Line To Be Filled Out by MoDOT ****

Comments: I recommend that this VE Proposal be approved. This approval is based on the contractor following Section 2.2 of JSP (725-RSP-01) which allows the contractor to drive piling first and provide adequate bracing during the construction of the MSE Wall. I am unsure as to if this should be a 25/75% or 50/50% break down.

Orville B. Ingels 6/22/09
Submitted By Resident Engineer Date

Comments:

Approval Recommended Becky Balty 6-22-09
 Rejection Recommended _____ Date
District Engineer

Comments:

NA

Approval Recommended _____ Date
 Rejection Recommended Federal Highway Administration
Required for FHWA Full Oversight Projects

Comments:

Approval David D. Coates 7-2009
 Rejection State Construction and Materials Engineer Date

1.0 Description. The contractor shall install corrugated metal pipe at pile locations in the porous backfill of the mechanically stabilized earth walls to protect the reinforcement when driving pile for bridge substructure at end bent(s) as shown on the bridge plans. The corrugated pipe shall be accurately located and capped for future pile construction.

2.0 Construction Requirements. The corrugated metal pipe shall be accordance with requirements of Sec 725.

2.1 The corrugated steel pipe shall be galvanized in accordance with ASTM A 153 and have an inside diameter greater than that of the pile and large enough to avoid damage to the pipe when driving the pile. The size of pipe shall be subject to approval by the engineer before work is started. The bottom of the corrugated metal pipe pile spacers shall be placed below the bottom of the MSE wall leveling pad as shown on the plans. The pipe shall be filled with sand or other approved material after the pile is placed and before being driven. Shop drawings of the corrugated steel pipe will not be required.

2.2 In lieu of using pile spacers, the contractor has the option of driving the piles before construction of the retaining wall and placing the wall reinforcing and backfill material around the piling. The contractor must adequately support the piling to insure that proper pile alignment is maintained during the wall construction. The contractor's plan for bracing the pile shall be submitted to the engineer for review.

3.0 Method of Measurement. Measurement for corrugated metal pipe pile spacers will be made per each. No measurement will be made when the contractor chooses the option as described in section 2.2 of this provision.

4.0 Basis of Payment. Payment for the above described work, including all material, equipment, labor and any other incidental work necessary to complete this item, will be considered completely covered by the contract unit price for "Corrugated Metal Pipe Pile Spacers". No direct payment will be made when the contractor chooses the option as described in section 2.2 of this provision.

VALUE ENGINEERING CHECK SHEET

TYPE OF WORK

(Check one that applies)

- Bridge/Structure/Footings
- Drainage Structures (RCP, RCB, CMP's, ect.)
- TCP/MOT
- Paving (PCCP, ect.)
- Grading/MSE Walls
- Signal/Lighting/ITS
- Misc. _____

SUMMARY OF PROPOSAL

(If needed, condense summary to a couple of lines)

_____ Drive H-pile at end bents prior to MSE wall construction to eliminate corrugated metal pipe pile spacers.

SCANNING OF DOCUMENT

If the proposal is large, please mark or make note, which pages need to be scanned into the database. If there are special instructions, make note of them here.

_____ Include attached JSP.