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MEMORANDUM

TO: Eric Christiansen **DATE:** 8-31-10
FROM: Dianne Popken **AVO:** 27379
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SUBJECT: Vitruvian Bridges – Sleeves for Electrical Conduits

In an effort to expedite the electrical rough-in of sleeves into the Ponte abutment before the pour begins, I have considered several means of construction proposed by the Electrical Contractor's Carl King and Rodney Flanery. I recommend the following materials be used in lieu of those noted on the drawings.

Reference sheet E1-01 , Addendum 5 dated 8-18-10 for electrical service changes:
Note 7 describes cast junction boxes and note 9 describes their location on the bridge beam shelf between the bridge beams. Addendum 5 increased the number of junction boxes required for the circuits to the bridge lighting and the size of conduits serving the junction boxes. For those reasons, galvanized NEMA 4 junction boxes with a hinged and gasket cover and with weather proof conduit connectors and Meyers hubs can be substituted for cast boxes.

The junction boxes can be mounted on the abutment just above the shelf. The junction box for accent lighting can be located outboard of beams #1 and #7. The street lighting and receptacle junction boxes can be located between in spaces on either side of beam #4. Surface mounted conduits under the bridge can be secured to the under side of the bridge deck, between the beams.

Reference sheet S1-18, detail of Steel Pipe Embed for sleeve and sealing of conduits through abutment. Provide PVC sleeves for electrical conduits and seal with Elastomeric sealant around entire opening (front and back).

In my discussion with the Electrical Contractor about Addendum #5, it was discovered that the Bid Items for the Bridge contract include the fixtures Type "H" that are also included in the Park Contract. The fixtures are referenced on the Bridge documents, but scheduled separately from the Bridge Light Fixture Schedule. It is my understanding that the same fixtures might be specified in the Park revised documents and identified by adding a BL series of numbers to the Type SA fixtures. I recommend that the General Contractor coordinate the Bid Items for both projects to confirm that the fixtures added to the Park poles are only provided in the Parks project. This action would delete those fixtures from the Bridge project (affecting Bridge Bid Items #62 and #76).

This concludes my recommendations resulting from the conversation with the Electrical Contractor on Tuesday 8-31-10. Please direct the Contractor accordingly.