**STRUCTURAL OBSERVATION REPORT NUMBER: 42**

**Project:** Vitruvian Park Public Infrastructure – Phase 1D

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| **Bridge Description:** Ponte [x]  | Bella [ ]  Pedestrian [ ]   | **Report Date:**  02/12/11  |
| **Contractor/Subcontractor Name:** | Austin B&R  | **Time Arrived:**  8:00 am  |
| **Report by:** MLJ [ ]  JWM [x]  | Other [ ]  | **Time Departed:**  3:00 pm  |

**WEATHER AND SITE CONDITIONS:**

Cool. Sunny

**WORK OBSERVED:**

Deck Pour. Class S Concrete (Mix Design 8274A)

**ITEMS VERIFIED/WORK COMPLETED:**

Rebar in place, pedestrian rail embeds in place, all carrier pipes in place under the deck. Inserts for Arch "cables"/rods in place. PVC pipes to drain deck drain in the sidewalk in place.

**DISCUSSIONS WITH CONTRACTOR:**

The Friday before, I clarified some rebar placement for the contractor. I also asked the contractor to provide a cold galvanization coating to the ends of the four pedestrian rail embeds located at the two abutments because they were located so close to the edge of the concrete. The rail reinforcement (V bars) had been spaced assuming the construction/control joint in the traffic rail concrete parapet would be at the same location as the expansion joint in the steel rail on top of the parapet. I pointed out that this would not work because the construction joint in the concrete parapet would end up falling right at the edge of the base plate for the steel rail. The contractor adjusted the rail reinforcement so that the joints in the concrete parapet would be 9" away from the expansion joint in the steel rail as the T401 Standard indicates.

**COMMENTS:**

There were some areas of deck thickness that were coming short of the 8" min thickness. These areas only happened over the PMDF. A few thicknesses were measured around 7" to 7 1/4". Most of them measured close to 7 1/2". Over the precast panels, the deck thickness was 4" (8" total with the PCP) as expected. I notified the contractor of the areas of shallower thickness. Toward Abut 1, I noticed more areas of shallow thickness even over the precast panels. The screed was moved back and raised in order to provide sufficient cover and thickness in this region.