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RFI Response

To: Caltrans
Attn: Bill Shedd, Martin Chandrawinata, Stanley Ku
Project: 04-0120F4 - SAS
RFI Date: 02/20/2013
RFI No: 3204R00
Subject: **Hinge AW, AE: Electrical**

Background

Contractor is requesting following information with reference to the contract plan sheets:

1. Contract plan sheets 185 and 241:

- a) Sheet Note 4 specifies that all cables entering the liquidtight conduits from the cable trays shall be provided with strain relief cable grips attached from the vertical cable tray rungs. Contractor is proposing to use Amtec conduit riser grip in lieu of strain relief grip attached from vertical cable tray rungs.
- b) Item J of the material list specifies "Swivel ceiling flange" for attachment of cable tray hangers to the ceiling. Contractor is requesting make and model of the listed "Swivel ceiling flange".
- c) Conduit support detail 3 shows structural angle 102x102x9.5. Contractor is requesting information whether this angle is for strut straps only. Contractor is also requesting further details for conduit support and its attachment to Hinge Pipe Beam. Contractor notes that a shop-welded conduit support will not fit through the OBG structure access way and intend to fabricate the support in the field with bolted strut.
- d) Detail 1 shows structural channel C100x8. Contractor is requesting information for attachment of the channel to the OBG ceiling. Contractor is requesting clarification for the quantity of channels indicated as five (5) on the contract plan sheet.

2. Contract plan sheets 186 and 242:

- a) Details 1, 2, 3 shows strut channels attached to the OBG structure. Contractor is requesting information for attachment of strut channels to the ceiling, wall and floor of the OBG.
- b) Contractor states that the connection to (E) cable trays in the Skyway are a top/bottom configuration, passing through an opening in the OBG structure. Sections A-A and B-B on the contract plan sheets shows the 15kV and non-Caltrans trays routed side by side. Contractor is requesting clarification whether the 15kV tray routed underneath the non-Caltrans tray with adjustable angles not shown in the section view and how this can be done in the limited space available inside the OBG.

Response:

PB provides the following response to the contractor's queries in the same order as listed in the RFI with reference to contract plan sheets noted below:

1. Contract plan sheets 185 and 241:

- a) Contractor's proposal to use Amtec conduit riser grip attached from the vertical cable tray (size as required) in lieu of the strain relief grip to support the vertically routed cable is acceptable. See attached sketch SK-RFI3204-E132A/221A.
- b) Attachment details for cable tray hangers have been revised. "Swivel ceiling flange" is not required. Attached sketches SK-RFI3204-E132A/221A, SK-RFI3204-03 thru SK-RFI3204-05 shows the revised configuration for attachment of cable tray hangers.
- c) Contractor's proposal to use bolted strut conduit support at Hinge Pipe Beam is NOT acceptable. Attached sketches SK-RFI3204-01 thru SK-RFI3204-02 provides details for conduit support and its attachment to Hinge Pipe Beam at Hinge A.
- d) Attached sketches SK-RFI3204-E132A/221A, SK-RFI3204-03 thru SK-RFI3204-05 provides revised details for conduit and cable tray support at Hinge A and attachment of cable tray hanger supports to the OBG structure.

2. Contract plan sheets 186 and 242:

- a) The struts shown on the contract plan sheet were intended to be welded to the OBG structure in a separate contract. However, these struts were not installed in that contract. Attached sketch SK-RFI3204-E132B/221B provides revised details for attachment of cable tray supports to the OBG structure.
- b) The 15kV and non-Caltrans utilities trays and similarly 600V and TOS/COM cable trays shall be routed as shown in attached sketches SK-RFI3204-E101A/186A and SK-RFI3204-E132A/221A. The adjacent cable trays are routed side by side as they exit the loop and transitions into top-bottom configuration to meet the existing cable trays at the Skyway OBG diaphragm opening. Similar cable tray layout has been used at Hinges B, C and D inside the Skyway structure.

All the sketches attached with this response depict the conditions at Hinge AW. Similar revisions apply to conduits and cable trays at Hinge AE.

Referenced Document(s):

- Contract Plan Sheet(s): 155R2, 185, 186, 187R2, 221R2, 241, 242, 243R2/1204

Potential Design/Cost Impact from this RFI:

- No Change.
- Change with no cost.
- Change with cost.
- Change with Credit.
- Change, but cost cannot be determined at this time

Date: 03/19/2013

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CC: Project File