



STATE OF CALIFORNIA - DEPARTMENT OF TRANSPORTATION
ENGINEER'S DAILY REPORT
 LAN Engineering Consultant

REPORT NO. **449** {7-day} DATE **4-10-08 ML** **March 06, 2008** M T W **J** F S S (DAY)
 NORMAL WORK HOUR: START: 7:00AM STOP: 3:30PM WEATHER: CLEAR/SUNNY
 LOCATION : Construction Field Office : 333 Burma Road, Oakland 94607
 Working Drawing Campus Office : 375 Burma Road, Oakland 94607

04-SF-80-13.2/13.9
Contract No. 04-0120F4
{SAS Superstructure}

Caltrans Supervisor:
Gary Lai
Senior Bridge Engineer

Office Work:

- ❖ **Caltrans Safety Tailgate Meeting**
 Subject: Emergency procedures and reporting : Caltrans and Consultants.
- ❖ **SAS Staff Meeting**
 Subject: Status of the SAS Project .
- ❖ **MEP Shop Drawing Work.**
 - Worked on the Master penetration list.
- ❖ **W2 / T1 / E2 As-Built Grounding issue.**
 - Discussed the status of the grounding electrode with Grady Hart.
- ❖ **CCR 58 Grounding on the SAS Structure.**
 - PB indicated in the meeting yesterday that the complete grounding package would be ready to review in 2-3 weeks. The requested some information from the shop drawings as to location of penetrations for grounding routing. I informed them to contact Max Takaki for that information.
- ❖ **CCO # 42 CRM meeting inventionation.**
 - Meeting to discuss the CCO#42 comments and processing is scheduled for Tuesday March 11 @ 11:00 AM. See attachment.

Any questions or comments you can reach me at (916) 919-7158. My E-Mail address is Mike.Travis@LANEngineering.com or Michael_Travis@dot.ca.gov

END OF REPORT

SIGNATURE

work hours 0450-1800 – 8 hours regular / 2 hours OT

Name

Michael F. Travis

TITLE

Electrical Engineer – LAN Engineering

Calendar Entry

Meeting

- Notify me 
- Mark Private Pencil In

Subject	CCO 42 review session		
When	Starts	Tue 03/11/2008	11:00 AM
	Ends	Tue 03/11/2008	12:00 PM
1 hour			
Invitees	Bill Shedd/D04/Caltrans/CAGov@DOT,		
	Required (to) GarciaR@pbworld.com, KingN@pbworld.com, Michael Travis/HQ/Caltrans/CAGov@DOT, Scott		
Optional (cc) Walleddine@pbworld.com			
Description			
Chair Saeed Shahmirzai/D04/Caltrans/CAGov			
Where Location Working Drawing Campus Conf. room			
Categorize			
Your Notes			

Bill,
Please forward this invitation to Chris (ABF) and Anna (Bleyco).

Nick,
Please make sure we have the conference room (WDC) reserved for this event.

CCR 42 & RFI 1134 CRM Meeting
ABF/Caltrans/PB
March 04, 2008
With Caltrans Comments

Subject:

The CCO 70 (CCR42 & RFI 1134)

The 95% PB package was presented to the contractor (ABF / Blanco) at the meeting to go over all the proposed changes within this CCO package.

Attendees:

Michael Travis – Caltrans

Chris Bausone – ABF (Prime Contractor)

Nick King – PB

Scott Yeager – ABF (Prime Contractor)

Max Takaki – PB

Anna Lee – Bleyco (Electrical Sub-Contractor)

The following issues were discussed about the proposed Package:

Structural Issues:

- Attachment to stiffeners – Welding, drill & Tap,?.
- Sheet E-285A – Attachment to the diaphragm plate in the tower shaft. The type of attachment could be a problem so need to determine if this can be deleted.
- Sheet E-264A –UP210 Service equipment mounting bracket needs to be changed. There is a seismic movement rating between the Façade plate and the tower structure. The attachment shown will not work. Also there is a angle between the façade plate and the tower structure so a minimum of 250mm area at the interface point that needs to be addressed in installing anything next to the tower structure.
- Sheet E-285B has an addition or a typical doubler plate detail and a chart for the tower skin penetration. The chart only shows the tower shaft and elevations were the changes are made in the CCO. There is not a comprehensive chart so the question was asked as to why wasn't there a complete list generated.
- The question was asked by the contractor if the structural portion of the design was reviewed by a structural person in PB and also coordinated with the Structural Design group T.Y. Lin. The contractor was assured that the package will be properly reviewed and coordinated before the final set is submitted through Caltrans.

MEP Issues:

- Sheet E-264A Detail 1 shows the secondary feed from the transformer going to the wireway not into the distribution panel. The sub-contractor asked why the conduit did not going directly to the distribution panel?
- E-264B The sub-contractor asked why was the detail showing a junction box to cable tray transition for a typical detail when the original plans do not show this specific type of detail. The sub-contractor was going to go from cable try to conduit. The issues on splicing were brought up at the meeting as to where and how the splices are to be made.
- E-268 This sheet shows the addition of plates for the attachment of receptacles and light switches. This was not shown in the original contract plans so the contractor was going to install the items directly to the stiffeners. If these plates are going too added it would be a change to the contract. More information as to attachment and size of plates are required.
- E-284B The conduit feed for the lighting, receptacles and switches was not changed to the cable tray type feed at all elevations. The contractor indicated the layout for equipment feeds has partially changed then the same concept should be used throughout the tower structure.
- E-285A The conduit feeds to the equipment show conduit fittings that would be difficult to install and gain access (i.e. the bottom of the transformer, between enclosures).
- E-285C The contractor indicated that the layout from the cable trays was to be conduit only. The addition of junction boxes in this sheet indicates that this is an extra requested addition.

Caltrans Review Comments:

- General Comment (All Sheets): The sheets need to be developed using the format for CCO. The CCO # assigned to this package is CCO# 70 which includes CCR 42 and RFI #1134.
- Sheet E-32: The note for sub-station breakers were added but the note 4 was not identified as a change in the body of the plan sheet. RFI # 451 is not part of this package and should not be reflected in this CCO.
- Sheet E-83: PB-4F has been used in another CCO and is a NEMA 4X box. Need to change this to another type ID (PB-4H?). New Panel Enclosure at tower platforms is identified as a type (PB-9A) this could be misleading because there is a Caltrans type 9A box being used (change to avoid conflict PB-8B?).
- Sheet E-264: This sheet should be removed from the package. The sheet is an old version of the proposed CCO #42. The proposed enclosure location will be an obstruction to other equipment and accessibility.
- Sheet 264A: The Future Caltran's Enclosure cannot be mounted as shown (see comments sheet E-285 – Caltrans Future Enclosure). See structural comments above. Also the location could be

in conflict with different existing items (Doubler plate feeds, etc.). This plan sheet needs to be coordinated with T.Y. Lin. Detail # 1 cannot be attached to the structure as shown – see comments above.

- Sheet 264B: Detail 2 has conduit missing from box to cable tray, items not identified, and clearances need to be checked. Attachments to tower structure needs to be reviewed and addressed. Is this going to be a standard detail all throughout the tower structure? Enclosure ID needs to be changed (already being used).
- E-268: Are mounting plates being required to be used throughout the tower structure? Need more information if this is going to be required mounting plates in the contract. Detail 11 reference to sheet E264A required.
- E274: The note within the cloud on tables 1 & 2 should not be installed because it is being moved to another sheet.
- E275: The note within the cloud on tables 3 & 4 should not be installed because it is being moved to another sheet.
- E-275A: This sheet is a supplemental sheet so no clouding is necessary.
- E278: The grounding for this service needs to be checked and corrected if needed and the connection to the system ground clarified.
- E-279: In the notes section the note #2 was deleted. The notes should not be renumbered the note #2 should be left blank.

The grounding for this service needs to be checked and corrected if needed and the connection to the system ground clarified.

- E280: The grounding for this service needs to be checked and corrected if needed and the connection to the system ground clarified.
- E-282: Need to add elevation 33 to plan at 18.000 m shown. Also there are lights and receptacles at elevations 115.5 and 116.330 – these plans need to be added.
- E-283: several things were changed on this sheet but no indication (Clouds) of what was modified (added notes, deleted conduit runs, etc.). Note needs to be added to reference Detail 11 on sheet E-268.
- E-284: This sheet shows a partial modification of the tower ladder lighting details from conduit to cable tray. Since the installation of the cable trays in the tower, consideration to provide as much as possible lighting feeds from cable trays should be considered.
- E-284A: Need to fill in all the conduit branch ID triangles. Do not need cloud around title this is a supplemental sheet. Need to change the junction box symbol to a designated type.
- E-284B: Need to fill in all the conduit branch ID triangles. Do not need cloud around title this is a supplemental sheet. Need to change the junction box symbol to a designated type.

- E-285: This is a modification (deletion) but no cloud in section A-A. Need to show the light switch and circuit cross feed from opposite power panels.

The future Caltrans enclosure is not within the scope of this package and cannot be mounted as shown. Either remove from this package or clarify.

- E-285A: Do not need to cloud around title this is a supplemental sheet. Need to show task lighting in detail at EL. 89.85 m also need some type of scale.

Section B-B shows a mounting base for the unistrut at the tower diaphragm plate. Attachment for this plate is not shown or specified. If this needs to be installed than I would suggest making it an end cap resting on the diaphragm plate. Attachment would be a problem.

Conduit schedule triangles have not been filled in.

Section A-A shows conduit terminations that will not work and need to be changed. Locations are transformer bottom and between the enclosures.

- E-285B: Do not need to cloud around title this is a supplemental sheet. On the plan view need to identify the conduit runs.

A typical Doubler Plate Detail and a partial plate schedule was included. Need to provide a complete schedule if this is going to be added to the contract plans.

- E-285C: Do not need to cloud around title this is a supplemental sheet. Section B-B needs the box type changed.

Section A-A needs additional dimensions, attachment details and conduit identification.

Detail 1 needs box type changed, identification of equipment in detail and proper scaling. Also need to reference the detail to sheet 285B not 264C.

RFI 1134:

- After the contractor reviewed all the sheets and covered all the issues it was agreed that RFI # 1134 can be responded to with the following documentation:
 - The RFI issues need to be addressed and responded to with detail attachments covering the layout and attachments of the equipment at elevation 89.85m. This would include sheet E-285, E-285A and E-285C.
 - The response to the RFI will also include the statement that CCO 70 will be processed covering these changes.