New Folder Name Proposed Modifications to the Beam Tube Slab and Cover

T950013

FAX COVER PAGE

CALIFORNIA INSTITUTE OF TECHNOLOGY

LIGO Project, 102-33 East Bridge Laboratory, Pasadena, California 91125
818-395-2129, Fax 818-304-9834

TO:	Yolande Middleton
ORGANIZATION:	Parsons - Document Control
FAX NUMBER:	440-2630
VOICE NUMBER:	
DATE:	30 March 1995
TIME:	9:00

FROM:	Linda Turner
ORGANIZATION:	CIT LIGO - Document Control
FAX NUMBER:	304-9834
VOICE NUMBER:	395-3047
REFER TO:	LIGO-T950013-00-B
SUBJECT:	Document Transmittal

NUMBER OF PAGES FAXED INCLUDING THIS COVER SHEET:	3

NOTE: Yolande, over to you for distributing. Have a good day.

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LIGO Project. 102-33 East Bridge Laboratory, Pasadena, California 91125
818-395-2129, Fax 818-304-9834

LETTER OF TRANSMITTAL

REFER TO: LIGO-T950013-00-B	
TO: Tyler Jackson	
The Ralph M. Parsons Company	
100 W. Walnut St.	
Pasadena, CA 91124	

DATE: 3/30/95	**PROJECT #: PP150969**
PROJECT NAME: Caltech - LIGO Construction	
RE: Proposed Modifications to the Beam Tube Slab and Cover	

Dear Tyler:

WE ARE SENDING YOU as checked below:

☐ U.S. Mail ☐ Overnight ☐ Courier

COPIES	DATED	DESCRIPTION
1	3/24/95	Document #LIGO-T950013-00-B from CBI

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- ☐ For review and comment
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REMARKS: Signed

Signed: _____
Fred Asiri

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To LARRY JONES	From M. TELLALIAN
Co. CALTECH	Co. CBI
Dept. LIGO PROJECT	Phone # 815-439-6517
Fax # 818-304-9834	Fax #

LIGO-T950013-00-B

Chicago Bridge & Iron

Technical Services Company

1501 North Division Street
Plainfield, Illinois 60544-8929

815 439 6000
FAX: 815 439 6010

March 24, 1995

California Institute of Technology
Larry Jones
LIGO Project
102-33 Bridge Laboratory
Pasadena, California 91125

Reference: Contract No. C146 for the LIGO Beam Tube Modules

Subject: Proposed Modifications to the Beam Tube Slab & Cover
L. Jones February 16,1995 Letter to M. Tellalian

Dear Larry,

As noted in Parsons' February 14 letter to Fred Asiri, Parsons is considering reducing the slab width and modifying the shape of the beam tube cover. The reduced slab width will likely cause the tube centerline to be offset from the rail center line used by the clean room trailer and the weld/test station. The cover shape has been modified to increase the cover height and decrease the cover width. Based on a preliminary review, these modifications will have the following impact on CBI's operations:

Traveling Clean Room
The clean room trailer does not need to be centered on the beam tube centerline. As such, the trailer can be modified to be centered about the slab centerline with an offset access for the tube. Although the clean room trailer details would have to be revised, the activities would be unchanged.

Weld & Cleaning Station
The weld and cleaning station provides equal access to both sides of the beam tube and therefore must be centered about the beam tube centerline. The support system would have to be modified to allow the enclosure to be supported on the offset rails. Equal access around the beam tube must be preserved.

GPS Receiver Location
The proposed enclosure is higher than the original enclosure which will increase the height of the receiver support. The horizontal position tolerance will increase with the increased height. Overall, the increased height probably will not significantly affect the tube alignment.

Support Access
Access to the back sides of the support will be reduced. The amount of clearance provided by the proposed modification has not been checked but there appears to be enough room the prevent an interference. Again, based on a preliminary review, the reduced access should not prevent any alignment activities but they will be more restricted.

I hope this response meets your needs at this time. A more in depth review can be provide if desired.

Regards,

Marty

M. L. Tellalian
Plainfield Engineering

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