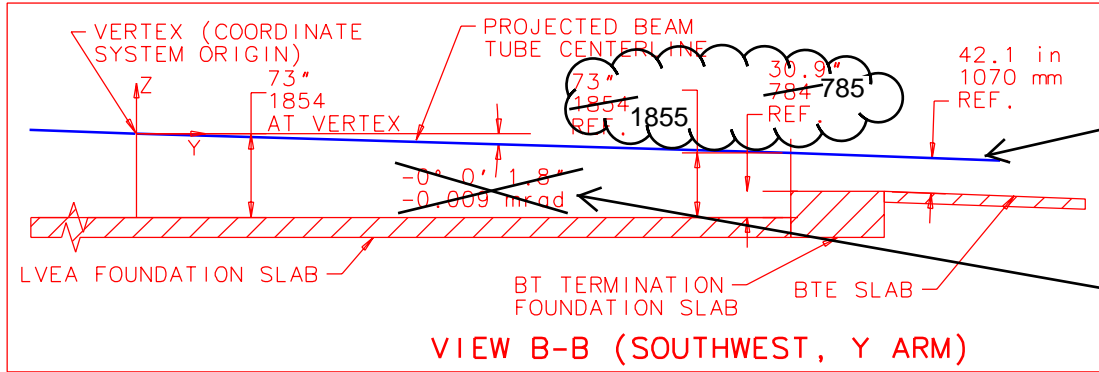


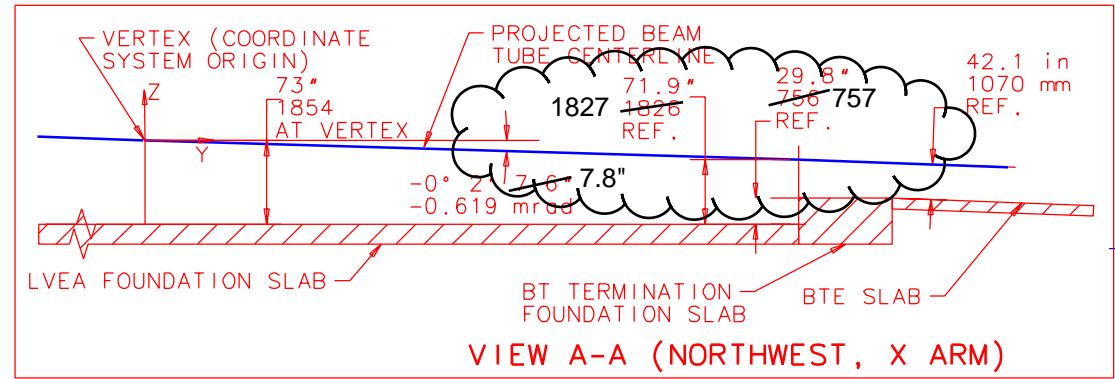
NOTES: (UNLESS OTHERWISE SPECIFIED)  
 (1) ICD INFORMATION: This drawing contains interface information.

REV	DESCRIPTION OF CHANGE
A/v1	DCN E980021
v2	see DCC record



CHANGE DIRECTION  
 (SLOPE UP, NOT DOWN)

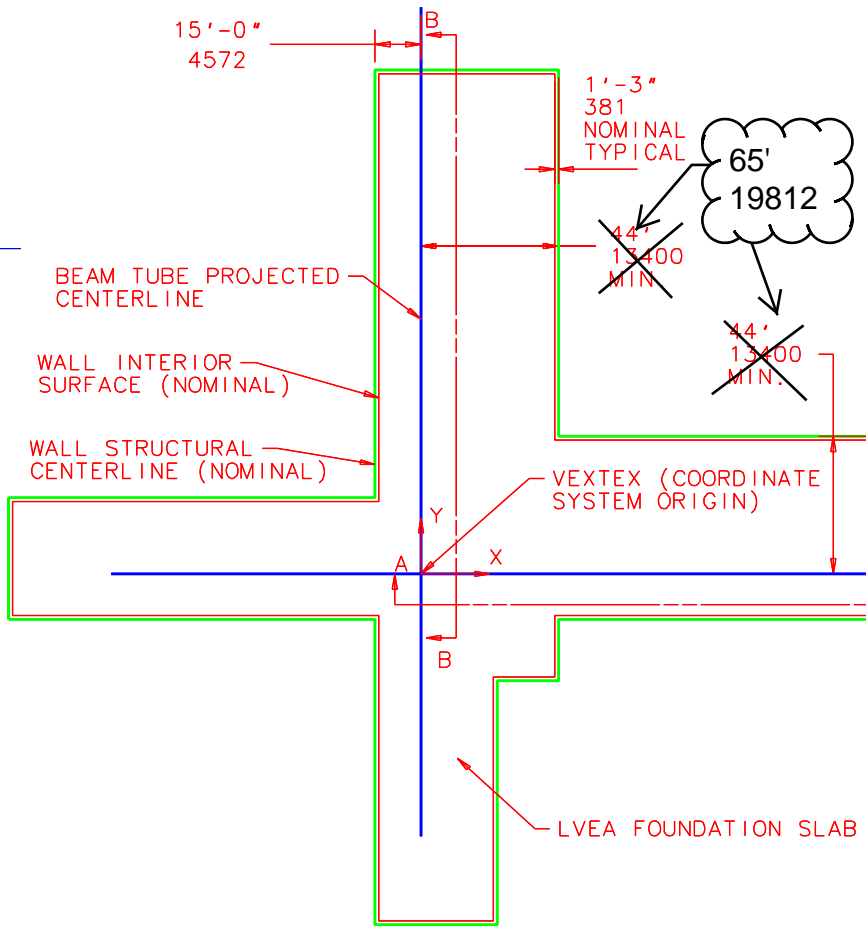
+0 deg 0' 2.5"  
 +0.012 mrad



LIGO HANFORD OBSERVATORY (LHO)  
 CORNER STATION (SHEET 1)

10-May-2009

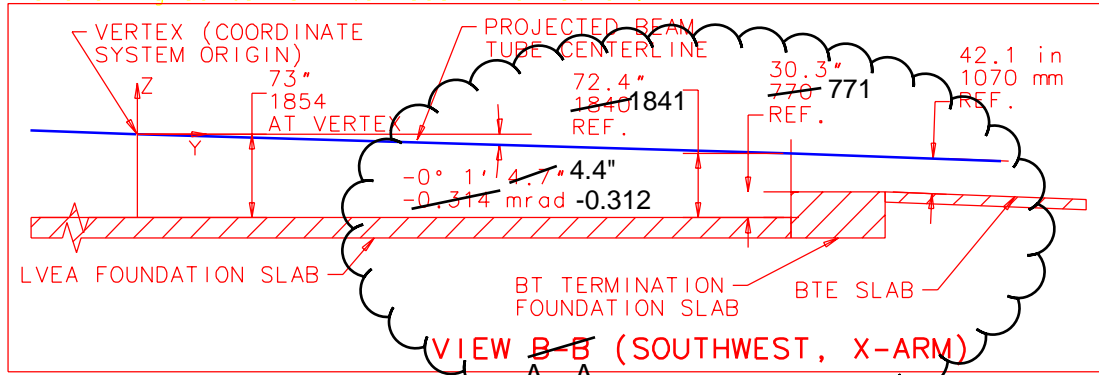
TUBE  
 CENTERLINE



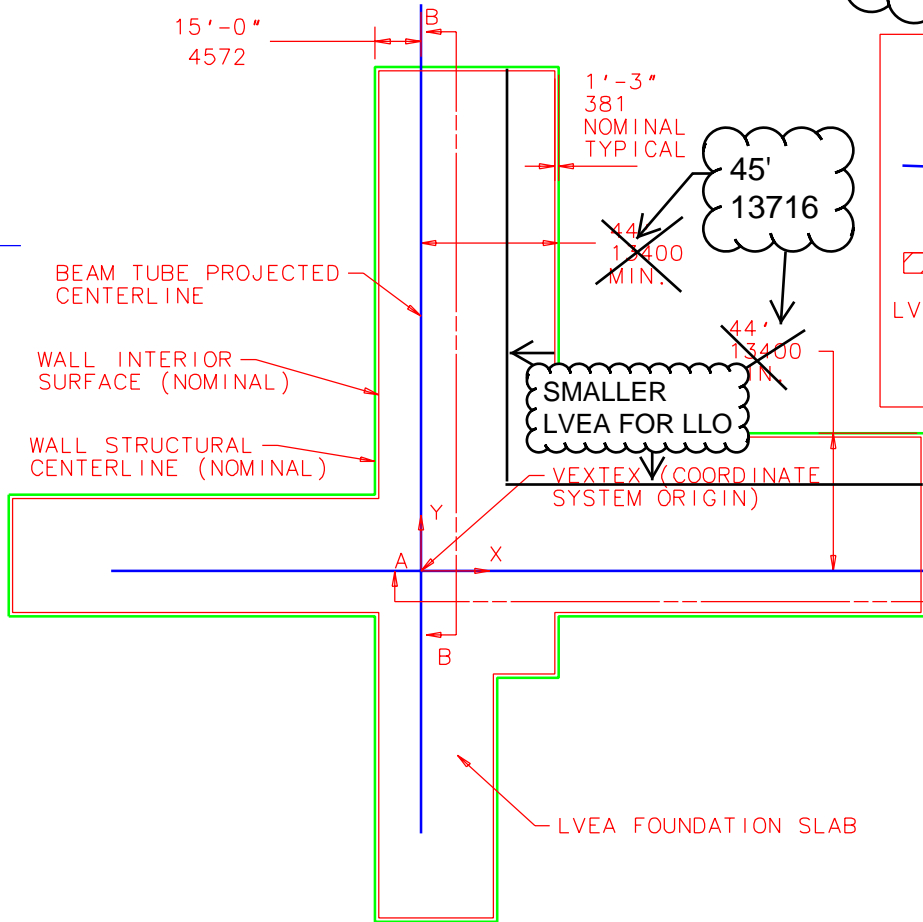
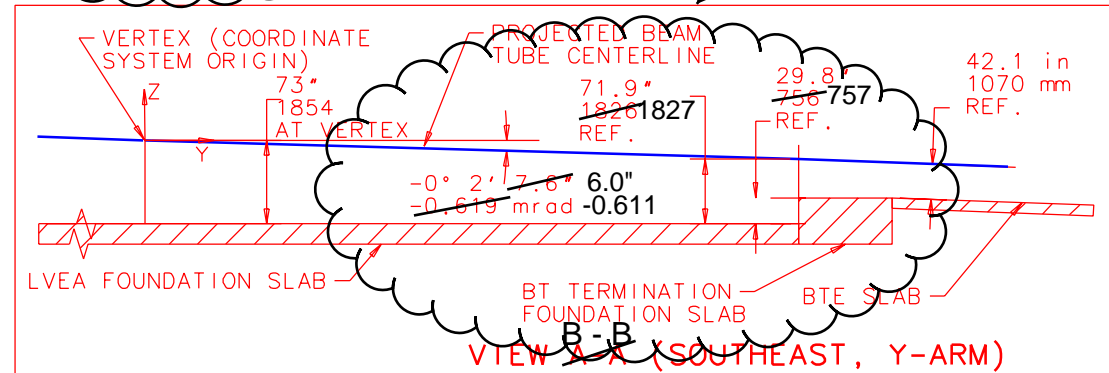
QTY	RECD	NO	PART OR IDENTIFYING NO	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN FT-IN (MM) FRACTIONS DECIMALS						
DRAWN: D. Coyne						
CHECKED:						
DATE: 2/28/98						
DO NOT SCALE DRAWING						
MATERIAL:						
FINISH:						
LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY						
TITLE: LVEA AND VEA FOUNDATIONS RELATIVE TO THE BEAM LINE						
- HANFORD, WA CORNER STATION						
DNG NO. D950148						
SCALE: NTS						SHEET 1 OF 3

NOTES: (UNLESS OTHERWISE SPECIFIED)  
 (1) ICD INFORMATION: This drawing contains interface information.

REV	DESCRIPTION OF CHANGE
A/v1	DCN E980021
v2	see DCC record



SWAP POSITIONS OF A-A & B-B VIEWS TO BE CONSISTENT WITH LHO DRAWING



LIGO LIVINGSTON OBSERVATORY (LLO) CORNER STATION (SHEET 2)

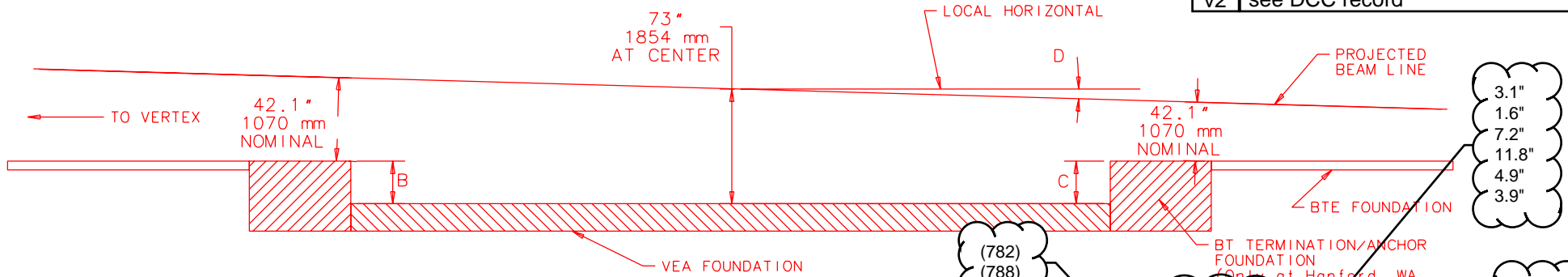
10-May-2009

TUBE CENTERLINE

QTY	REC'D	NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN IN- (mm) TOLERANCES ARE: FRACTIONS DECIMALS						
DRAWN D. Coyne			DATE 3/28/98	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY		
CHECKED				TITLE LVEA AND VEA FOUNDATIONS RELATIVE TO THE BEAM LINE - LIVINGSTON, LA CORNER STATION		
DO NOT SCALE DRAWING				DNG NO. D950148		
MATERIAL				SCALE NTS		
FINISH				SHEET 2 OF 3		

NOTES: (UNLESS OTHERWISE SPECIFIED)  
 (1) ICD INFORMATION: This drawing contains interface information.

REV	DESCRIPTION OF CHANGE
A/v1	DCN E980021
v2	see DCC record



SITE	ARM	STATION	B in (mm)	C in (mm)	D min-sec (mrad)
HANFORD	X	MID	31.0 (787)	30.8 (781)	-1' 2.3" (-0.302)
	X	END	30.9 (784)		0' 3.8" (0.009)
	Y	MID	30.8 (781)	31.0 (787)	1' 3.5" (0.308)
	Y	END	30.7 (779)		2' 7.6" (0.619)
LIVINGSTON	X	END	30.8 (781)		1' 4.1" (0.314)
	Y	END	30.9 (784)		0' 1.8" (0.009)

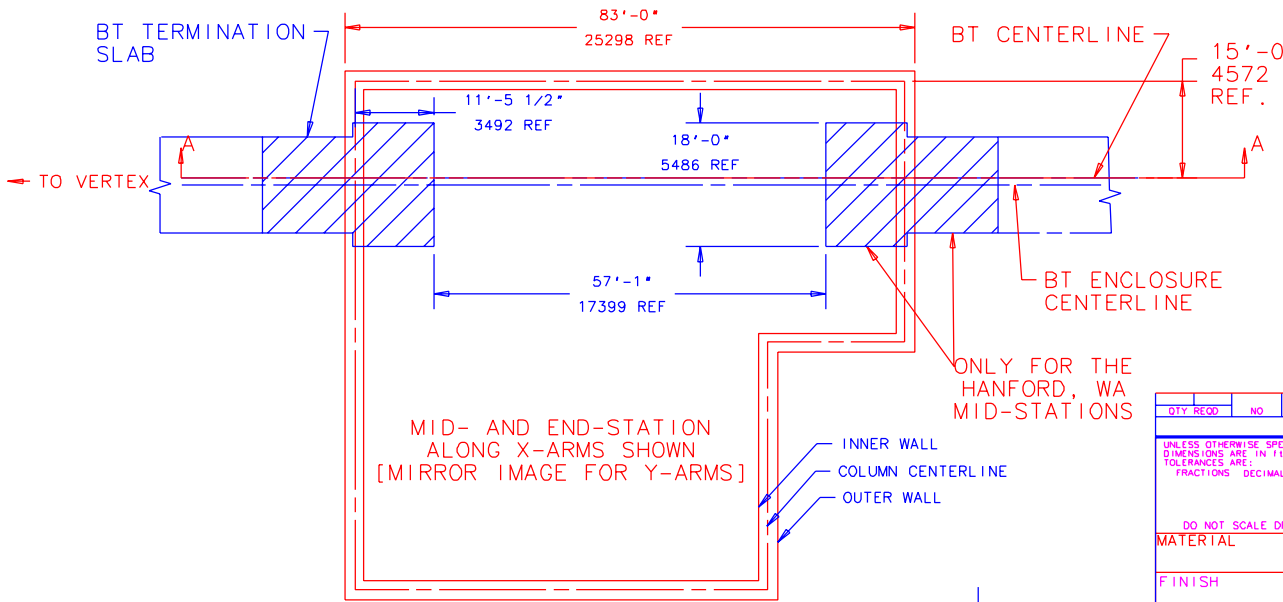
Positive D angle for the projected beam line rising above the horizontal with increasing distance from the vertex.

(788)  
 (785)  
 (782)  
 (779)  
 (782)  
 (785)

3.1"  
 1.6"  
 7.2"  
 11.8"  
 4.9"  
 3.9"

-0.306  
 0.008  
 0.326  
 0.639  
 0.315  
 0.019

MID- AND END-STATION VEAS AT BOTH OBSERVATORIES (SHEET 3)



10-May-2009

TUBE CENTERLINE

MID- AND END-STATION  
 ALONG X-ARMS SHOWN  
 [MIRROR IMAGE FOR Y-ARMS]

INNER WALL  
 COLUMN CENTERLINE  
 OUTER WALL

DTY	REC'D	NO.	PART OR IDENTIFYING NO.	NOMENCLATURE OR DESCRIPTION	MATERIAL SPECIFICATION	ITEM NO.
PARTS LIST						
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN FT-IN (mm) TOLERANCES ARE: FRACTIONS DECIMALS				DATE	LIGO CALIFORNIA INSTITUTE OF TECHNOLOGY MASSACHUSETTS INSTITUTE OF TECHNOLOGY	
DO NOT SCALE DRAWING				DRAWN D. Coyne	DATE 3/28/98	TITLE LVEA AND VEA FOUNDATIONS RELATIVE TO THE BEAM LINE
MATERIAL				CHECKED	MID- AND END-STATION VEAS AT BOTH SITES	
FINISH				DNG NO. D950148		
SCALE NTS					SHEET 3 OF 3	