

ABBREVIATIONS

AB	ANCHOR BOLT	MAX	MAXIMUM
ACI	AMERICAN CONCRETE INSTITUTE	MB	MACHINE BOLT
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION	MECH	MECHANICAL
APPROX	APPROXIMATE	MEZ	MEZZANINE
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	MIN	MINIMUM
AWS	AMERICAN WELDING SOCIETY	MISC	MISCELLANEOUS
		MPH	MILES PER HOUR
B/B	BACK TO BACK	NIC	NOT IN CONTRACT
B/P	BASE PLATE	NS	NEAR SIDE
DM	DEAD MAN	NTS	NOT TO SCALE
BOF	BOTTOM OF FOOTING		
BOS	BOTTOM OF STEEL		
BRCC	BRACING	OC	ON CENTER
BTE	BEAM TUBE ENCLOSURE	OD	OUTSIDE DIAMETER
		OH	OPPOSITE HAND
C	CAMBER	OPNG	OPENING
CC OR C/C	CENTER TO CENTER	OPP	OPPOSITE
CG	CENTER OF GRAVITY	OTO	OUT TO OUT
CJ	CONSTRUCTION JOINT		
CLG	CEILING	PCF	POUNDS PER CUBIC FOOT
CLR	CLEAR	PL	PLATE
CMU	CONCRETE MASONRY UNIT	PSF	POUNDS PER SQUARE FOOT
COL	COLUMN	PSI	POUNDS PER SQUARE INCH
CONC	CONCRETE	PT	POINT
CONT	CONTINUOUS		
CUB	CUBIC	R	RADIUS
		RD	ROOF DRAIN
DET	DETAIL	REF	REFERENCE
DIAG	DIAGONAL	REIN	REINFORCING STEEL
DIM	DIMENSION	REQD	REQUIRED
DL	DEAD LOAD	REV	REVISE OR REVISION
DL	DITTO		
DWG	DRAWING	SCHED	SCHEDULE
DWL	DOWEL	SECT	SECTION
		SHT	SHEET
EA	EACH	SIM	SIMILAR
EF	EACH FACE	SLV	SHORT LEG VERTICAL
EL	ELEVATION	SPA	SPACED
ENCL	ENCLOSURE	ST STL	STAINLESS STEEL
ENGR	ENGINEER	STD	STANDARD
EQ	EQUAL	STIF	STIFFENER
EQUIP	EQUIPMENT	SYM	SYMMETRICAL
ETC	ETCETERA		
EW	EACH WAY	T&B	TOP AND BOTTOM
EXIST	EXISTING	THK	THICKNESS
		TOC	TOP OF CONCRETE
FD	FLOOR DRAIN	TOP	TOP OF FOOTING
FDW	FOUNDATION	TOS	TOP OF STEEL
FIN	FINISH	TOW	TOP OF WALL
FUR	FLOOR	TYP	TYPICAL
FLSHG	FLASHING		
FOC	FACE OF CONCRETE	UNOT	UNLESS OTHERWISE NOTED
FRMG	FRAMING	VE	VACUUM EQUIPMENT
FS	FAR SIDE	VERT	VERTICAL
FT	FOOT, FEET	W/	WITH
FTG	FOOTING	WP	WATER PROOF
		WP	WORKING POINT
GA	GAUGE	WS	WELDED STUD
GALV	GALVANIZED	WT	WEIGHT
GR	GRADE	WWF	WELDED WIRE FABRIC
		WWM	WELDED WIRE MESH
HORIZ	HORIZONTAL		
HP	HIGH POINT		
HR	HANDRAIL		
HSH	HIGH STRENGTH BOLT		
ID	INSIDE DIAMETER		
IN	INCH		
INFO	INFORMATION		
INSUL	INSULATION		
JST	JOIST		
JT	JOINT		
LB	POUND		
LG	LENGTH		
LL	LIVE LOAD		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		
LWC	LIGHT WEIGHT CONCRETE		

SYMBOLS

L	ANGLE	△	DELTA
C	CHANNEL	⊕	SQUARE FEET
PL	PLATE	#	NUMBER OF POUND
⊕	CENTER LINE	&	AND
∅	DIAMETER or ROUND	@	AT
⊙	WORK POINT OR ELEV BENCH MARK		

	NUMBER FOR DETAILS		LETTER
	SHEET ON WHICH DETAIL OCCURS		SHEET ON WHICH SECTION OCCURS
	DETAIL		SECTION
	NUMBER FOR DETAIL		TYPE A
	LETTER FOR SECTION		BEAM TUBE ENCLOSURE DESIGNATION
	SHEET NUMBER		REVISED AREA CLOUDED
	SHEET WHERE REFERENCED FROM		REVISION
	DET/SECT CROSS REF		

GENERAL NOTES

GENERAL

1. ALL WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THE WORK AND SHALL NOTIFY THE CONSTRUCTION MANAGER OF ANY DISCREPANCY WITH THE INFORMATION SHOWN ON THE DRAWINGS PRIOR TO PROCEEDING WITH THE WORK.
3. FOR TOP OF CONCRETE SLAB FOR BEAM TUBE ENCLOSURE SEE CIVIL DRAWINGS.
4. INSTALLATION AND SEALING OF BEAM TUBE ENCLOSURE SEGMENTS ARE INCLUDED IN THIS CONTRACT.
5. INSTALLATION OF DOORS ARE INCLUDED IN THIS CONTRACT.

STRUCTURAL AND MISC METAL WORKS

1. STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO ASTM A36.
2. ALL WELDING AND ELECTRODES SHALL CONFORM TO THE REQUIREMENTS OF AWS D1.1 STRUCTURAL WELDING CODE.
3. FIELD WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS AND CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER PRIOR TO WELDING.

DRAWING INDEX

BT-S-101	GENERAL NOTES, ABBREVIATIONS & LEGEND
BT-S-102	KEY PLAN OF BEAM TUBE ENCLOSURE & PARTIAL ENLARGED PLAN
BT-S-102A	KEY PLAN OF BEAM TUBE ENCLOSURE & PARTIAL ENLARGED PLAN
BT-S-103	BEAM TUBE ENCLOSURE PLANS, SECTIONS & DETAILS

MATERIALS LEGEND

	CONCRETE		WELDED WIRE FABRIC
	GRAVEL		EARTH
			STRUCTURAL BACKFILL

LIGO-D960780-01-O

ISSUED FOR CONSTRUCTION	DATE	6-24-96
DRAWN	MCS	
CHECKED		
ENGINEER		
PROJ		

AS-BUILT DRAWINGS	
NO.	DESCRIPTION
1	ISSUED FOR AS BUILT

NO.	DATE	BY	CHKD	ENGR	PROJ
1	1-22-99	MEI	--	--	MDW

PARSONS
 100 WEST WALNUT STREET
 PASADENA, CALIFORNIA

LIGO
 CALIFORNIA INSTITUTE OF TECHNOLOGY
 MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER
 GRAVITATIONAL-WAVE OBSERVATORY
 BTE INSTALLATION - HANFORD, WA

TITLE	SCALE	CONTRACT NUMBER	PROJECT NUMBER
STRUCTURAL GENERAL NOTES, ABBREVIATIONS & LEGEND	NONE	PP150969	8094
SHEET NUMBER	BT-S-101		REVISIONS

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