DATE: 01/21/99 TIME: 13:09:48
DESIGN FILE: I:\ligo\site1\ce\btc004.dgz

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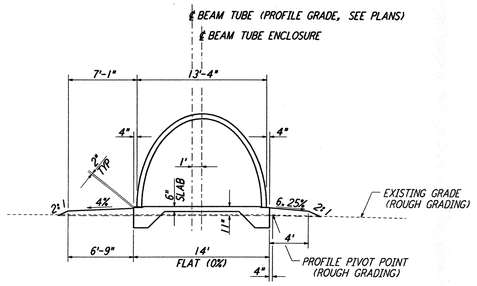
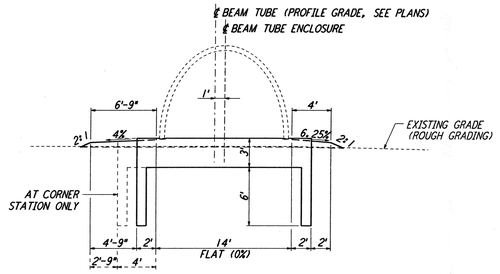


SECTION A (BT-C-004) — NOT TO SCALE

REF: BT-C-005, BT-C-011, BT-C-015, BT-C-020, BT-C-031, BT-C-035, BT-C-040

NORTHWEST ARM: STA 1+72.48 THRU STA 6+35.00; STA 63+56.67 THRU STA 65+64.72; STA 66+71.80 THRU STA 67+96.67; STA 128+56.67 THRU STA 130+64.05

SOUTHWEST ARM (SEE NOTE 5): STA 1+72.48 THRU STA 5+22.76; STA 63+56.67 THRU STA 65+64.72; STA 66+71.80 THRU STA 67+96.67; STA 128+56.67 THRU STA 130+64.05

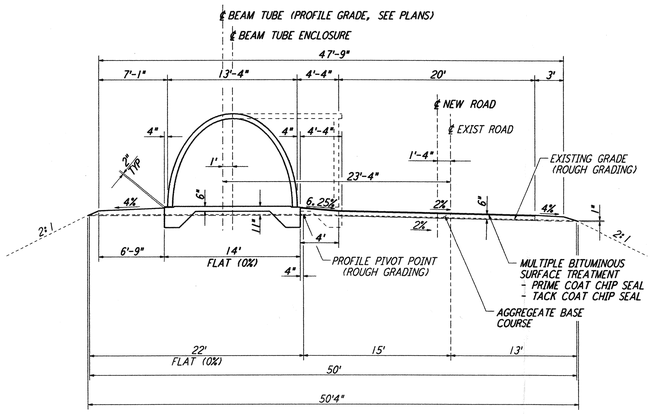


SECTION A (SIM) (BT-C-004) — NOT TO SCALE

REF: BT-C-005, BT-C-011, BT-C-015, BT-C-020, BT-C-031, BT-C-035, BT-C-040

NORTHWEST ARM: STA 1+47.48 THRU STA 1+72.48; STA 65+64.72 THRU STA 65+89.72; STA 66+46.80 THRU STA 66+71.80; STA 130+64.05 THRU STA 130+89.05

SOUTHWEST ARM (SEE NOTE 5): STA 1+47.48 THRU STA 1+72.76; STA 65+64.72 THRU STA 65+89.72; STA 66+46.80 THRU STA 66+71.80; STA 130+64.05 THRU STA 130+89.05

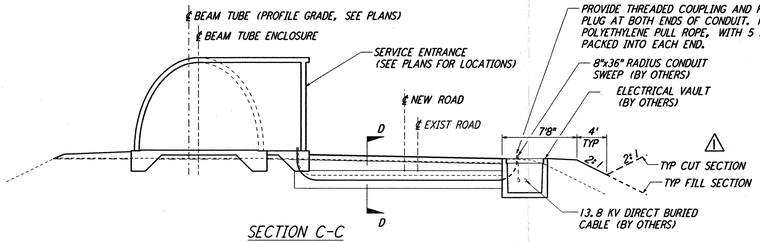


SECTION B (BT-C-004) — NOT TO SCALE

REF: BT-C-005, BT-C-011 THRU BT-C-020, BT-C-031 THRU BT-C-040

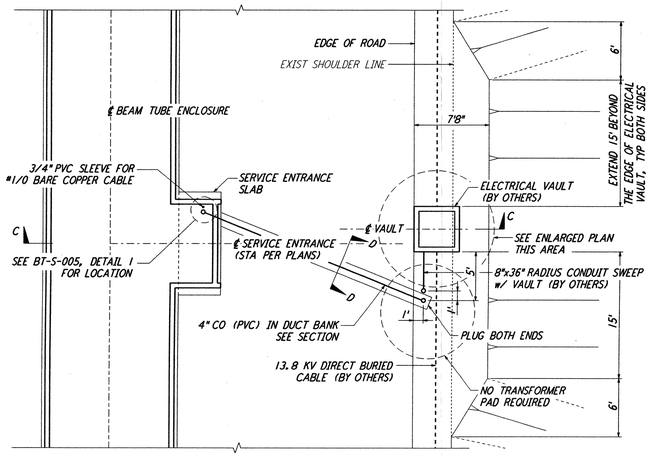
NORTHWEST ARM: STA 6+35.00 THRU STA 32+01.67; STA 33+51.67 THRU STA 63+56.67; STA 67+96.67 THRU STA 97+51.67; STA 99+01.67 THRU STA 128+56.67

SOUTHWEST ARM (SEE NOTE 5): STA 5+22.76 THRU STA 32+01.67; STA 33+51.67 THRU STA 63+56.67; STA 67+96.67 THRU STA 97+51.67; STA 99+01.67 THRU STA 128+56.67



SECTION C-C

NOTE: REFER TO SECTIONS 'A' AND 'B' FOR DIMENSIONS AND CALLOUTS NOT SHOWN ON THIS SECTION.

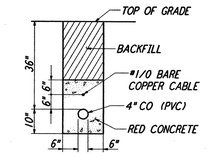


PLAN

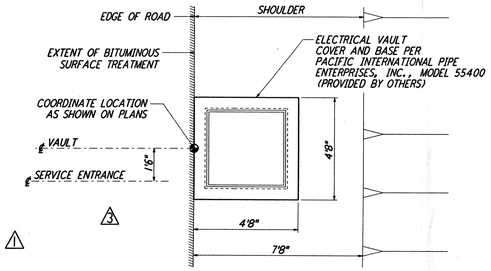
TYPICAL LOCATION PLAN @ SERVICE ENTRANCE FOR ELECTRICAL VAULT

(1 / BT-C-004) — NOT TO SCALE

REF: BT-C-005, BT-C-011 THRU BT-C-014, BT-C-016 THRU BT-C-019, BT-C-031 THRU BT-C-034, BT-C-036 THRU BT-C-039



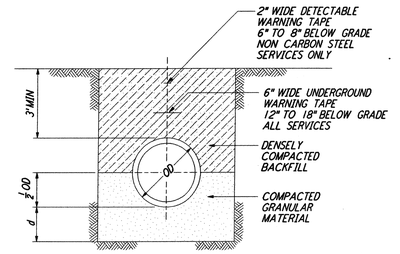
SECTION D-D



ENLARGED PLAN @ VAULT

NOTES:

1. SEE SHEET BT-C-002 FOR GENERAL NOTES, LEGEND AND ABBREVIATIONS.
2. CORNER STATION DIMENSIONS TO BE DETERMINED.
3. SECONDARY CONDUIT DIRECTION SHALL FACE MID OR END STATION, AS APPROPRIATE.
4. CONDUITS SHALL EXTEND TOWARD BUILDING VIA DUCT BANK, DETAIL 3, THIS SHEET.
5. FOR SOUTHWEST ARM, SECTIONS 'A', 'A (SIM)' AND 'B' ARE MIRRORED ABOUT THE BEAM TUBE CENTERLINE.



DEPTH OF BEDDING MATERIAL BELOW PIPE	
ID	d (MIN)
27" & SMALLER	3"

TRENCH BEDDING

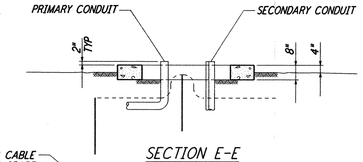
(4 / BT-C-004) — NOT TO SCALE

REF: BT-C-005, BT-C-011, BT-C-031

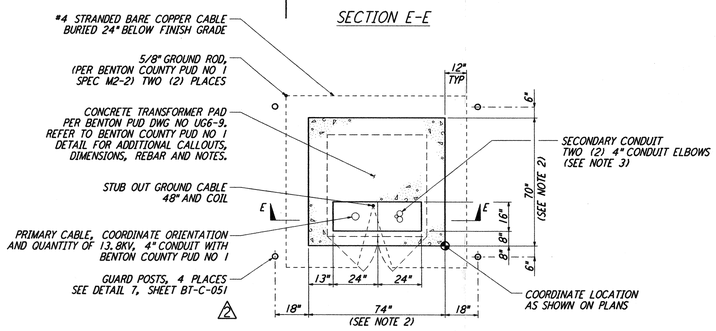
TYPICAL LOCATION PLAN FOR ELECTRICAL TRANSFORMER PAD

(2 / BT-C-004) — NOT TO SCALE

REF: BT-C-015, BT-C-020, BT-C-035, BT-C-040



SECTION E-E



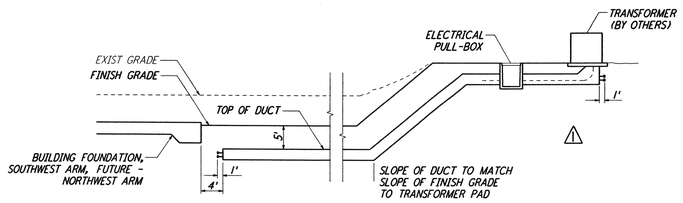
PLAN

NOTE: ORIENT PAD SUCH THAT DOORS FACE TOWARDS THE BEAM TUBE EMBANKMENT

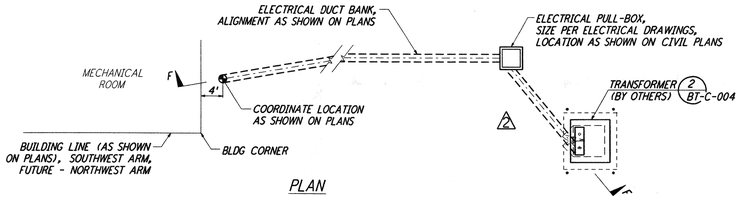
TYPICAL LOCATION PLAN FOR ELECTRICAL TRANSFORMER PAD

(2 / BT-C-004) — NOT TO SCALE

REF: BT-C-015, BT-C-020, BT-C-035, BT-C-040



SECTION F-F



PLAN

TYPICAL PLAN @ MID AND END STATIONS FOR ELECTRICAL DUCT BANK

(3 / BT-C-004) — NOT TO SCALE

REF: BT-C-015, BT-C-020, BT-C-023, BT-C-027, BT-C-035, BT-C-040, BT-C-043, BT-C-047

LIGO-D960164-04-O

REFERENCES

DRAWING NO.	DESCRIPTION

REVISIONS

NO.	DATE	BY	CHKD	ENGR	PROJ	DESCRIPTION
4	1-22-99	MEI	--	--	MDW	ISSUED FOR AS BUILT
3	5-10-96	WRB	TDM	JB	MDW	REVISED BEAM TUBE SERVICE ENTRANCES
2	4-19-96	WRB	TDM	JB	MDW	CHANGE ORDER NO. 4
1	2-29-96	WRB	TDM	JB	MDW	CHANGE ORDER NO. 2

/4\ ISSUED FOR CONSTRUCTION

DRAWN	WRB	1-19-96
CHECKED	MP	1-19-96
ENGINEER	JB	1-19-96
PROJ	MDW	1-19-96

AS-BUILT DRAWINGS

PARSONS
100 WEST WALNUT STREET
PASADENA, CALIFORNIA

LIGO
CALIFORNIA INSTITUTE OF TECHNOLOGY
MASSACHUSETTS INSTITUTE OF TECHNOLOGY

LASER INTERFEROMETER GRAVITATIONAL-WAVE OBSERVATORY
BTE SITEWORK & FABRICATION - HANFORD, WA

TITLE: CIVIL TYPICAL SECTIONS AND DETAILS

SCALE: NONE | CONTRACT NUMBER: PP150969 | PROJECT NUMBER: 8094

SHEET NUMBER: BT-C-004 | REVISIONS: 4

LIGOBTF3.BDR

Thu Jan 21 13:09:28 1999 C:\PLOTQUE\S3-V3682\c=8094.apf