

This drawing and the design it covers are the property of BECHTEL. They are hereby loaned and on the borrower's express agreement that they will not be
reproduced, copied, copied, loaned, exhibited or used except in the form and way and for the purpose intended by the lender to the borrower.



The purchasing of raceway markers is the field's responsibility.
SECTION X. Installation of cable ties for trays in Seismic Class 1 structures

- A. Cable ties for the cable trays in Seismic Class 1 structures shall be Thomas & Betts Catalog No. TY22HX, TY22HX, or TY227H, except for containments which shall be Thomas & Betts Catalog No. TY227H. No substitutions are allowed.
- B. 350 Braid cables shall be tied independently. Smaller cables may be tied in bundles and in no case shall an individual cable in a bundle have a diameter greater than 4 times the diameter of the smallest cable in that bundle.
- C. Cables shall be tied to tray rungs singly or in bundle using Thomas & Betts Catalog No. 698-4176 installing tool.
- D. Cable bundles shall not exceed eight (8) inches maximum in circumference when measured away from the tray rung. The cable or cable bundle must be in contact with the tray rung.
- E. In the auxiliary building, all cables in vertical trays or trays with a vertical offset exceeding four (4) feet, shall be tied to tray rungs following the criteria in note H. Cable tie spacing shall be a maximum of 4'-0".
- F. In the containments, all cables in vertical tray or trays with a vertical offset exceeding 3'-6", shall be tied to tray rungs following the criteria in note H. Cable tie spacing shall be a maximum of 3'-6".
- G. In the service water building, all cables in vertical tray or trays with a vertical offset exceeding two (2) feet, shall be tied to tray rungs following the criteria in note H. Cable tie spacing shall be a maximum of 2'-0".
- H. For all vertical changes in elevation exceeding 15 degrees, the cables or cable bundles shall be tied to one of the last two rungs of the horizontal tray before the slope. At the bottom of a slope, cables shall be tied to one of the last two rungs on the inclined tray. However, all cables or cable bundles may be tied to a single rung at the above location.
- I. Installed cable ties that do not meet the above criteria shall be retrofitted.

4-7-81 INCORPORATED, REVISED No.	BY	CHKD	GROUP LEAD	GROUP SUPV.	PROJ. ENGR.	CHIEF ENGR.
4-25-81 ISSUED FOR CONSTRUCTION	PP	PP	PP	PP	PP	PP
DATE	REVISIONS	BY	CHKD	GROUP LEAD	GROUP SUPV.	PROJ. ENGR.
SCALE	DESIGNED	DRAWN	7220			
ORIGIN	MIDLAND PLANT UNITS 1 AND 2 CONSUMERS POWER COMPANY CONDUIT AND TRAY NOTES, SYMBOLS, AND DETAILS		JOB No.		REV.	
			DRAWING No.		REV.	
			E-42(1) SHT. 60A		4	

TERA
APERTURE
CARD

16X

I certify that the image contained on this frame
was made in the normal and regular course of
business, on the date stated below and that it is
an accurate reproduction of the document
submitted to reprographics.

DATE 2-13-81 M. Crisay
CAMERA OPERATOR SUPERVISOR OF
REPROGRAPHICS

G-1348

RIDS

8107210501

