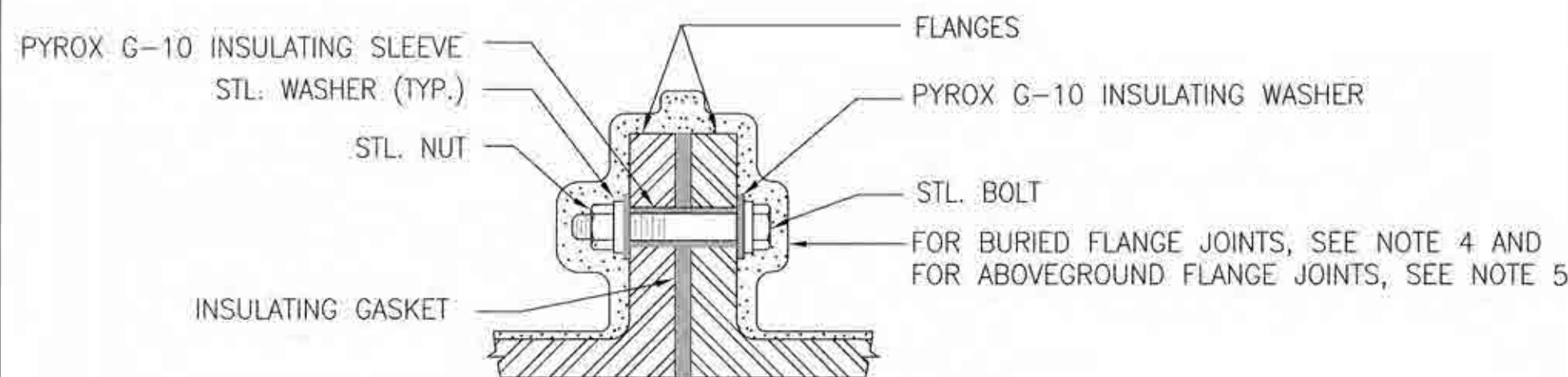
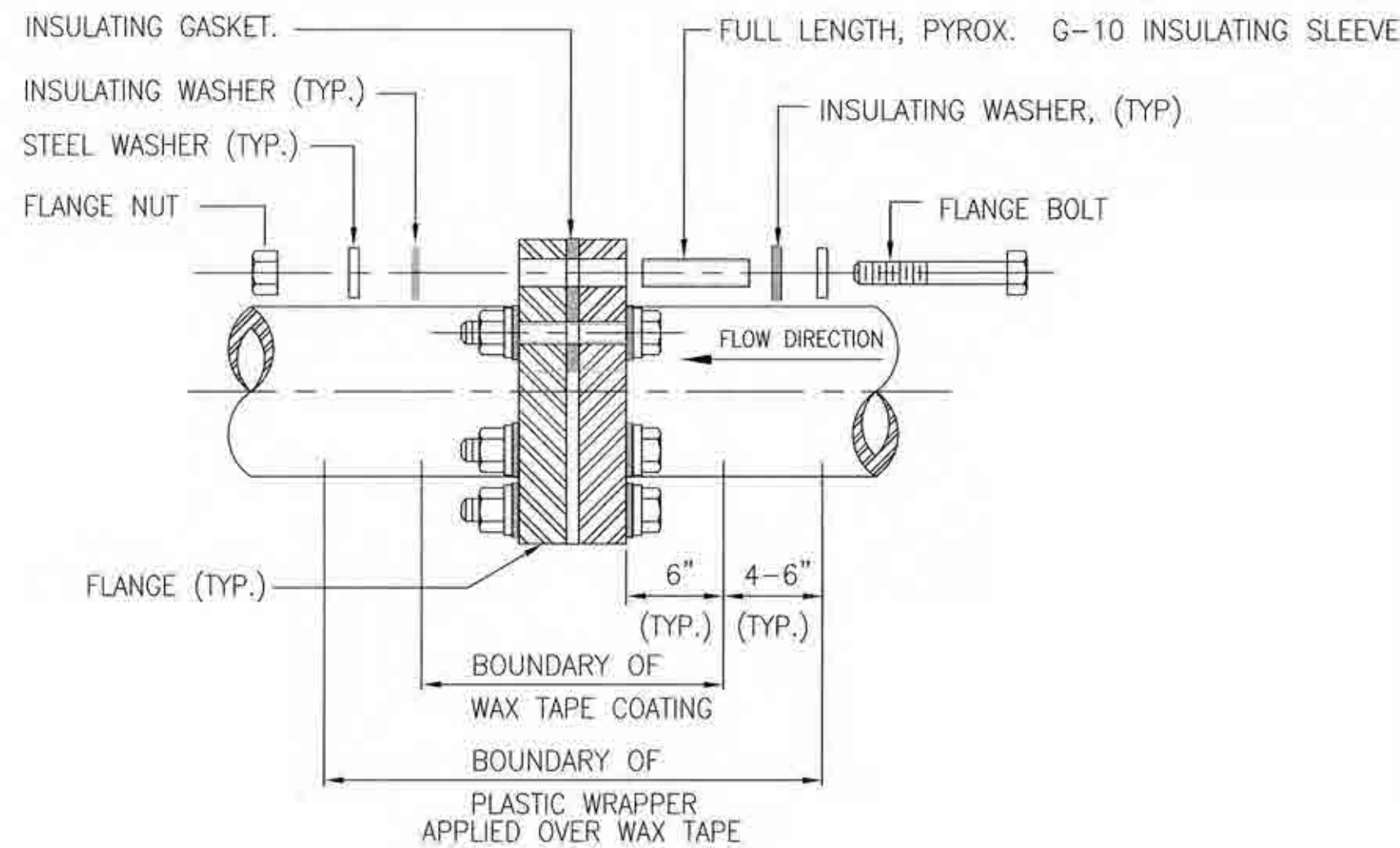


THREADED INSULATED FLANGE JOINT

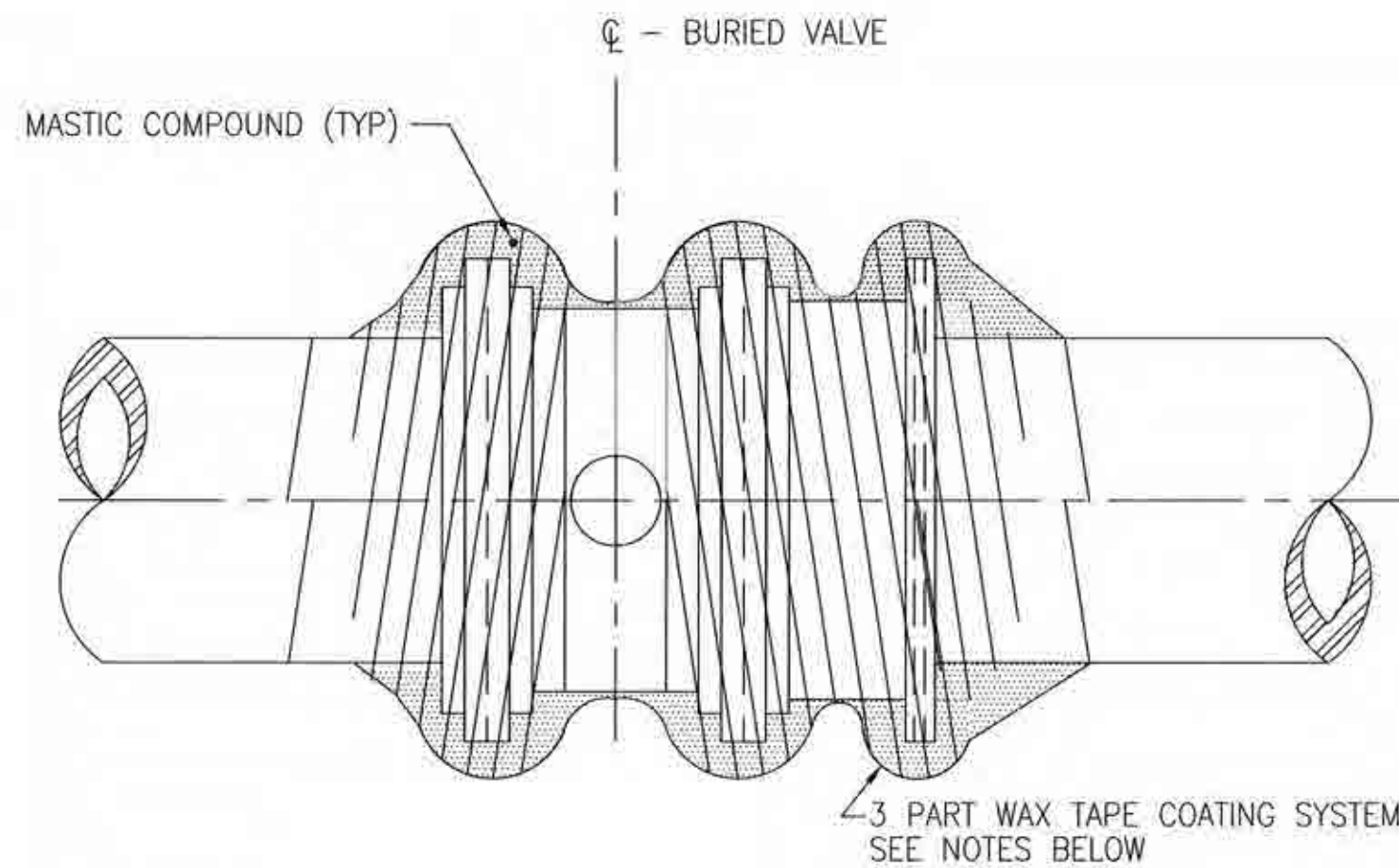


NOTES:

- SEE BOLT DIMENSION REQUIREMENT PER SPECIFICATION 13460.
- OD OF INSULATING WASHER SHALL BE EQUAL OR LARGER THAN OD OF STEEL WASHER.
- PROVIDE 2 COATS, 8-10 MILS DFT EACH, OF TOUCH UP PAINT TO FLANGE SURFACES IF THE FACTORY COATING IS DAMAGED DURING BOLTING.
- FOR BURIED FLANGE JOINTS, THE WAX TAPE SYSTEM SHALL BE APPLIED ON BOTH INSULATED FLANGE JOINTS AND NON-INSULATED FLANGE JOINTS. SEE DETAIL 4.
- FOR ABOVEGROUND INSULATED AND NON-INSULATED FLANGE JOINTS, THE NUTS AND BOLTS SHALL BE SEALED WITH NUT AND BOLT PROTECTION CAPS CONTAINING VCI, MANUFACTURED BY APS OR APPROVED EQUAL PER SPECIFICATION 13460.

INSULATED FLANGE JOINT

DETAIL 1
NOT TO SCALE WD-2775-14



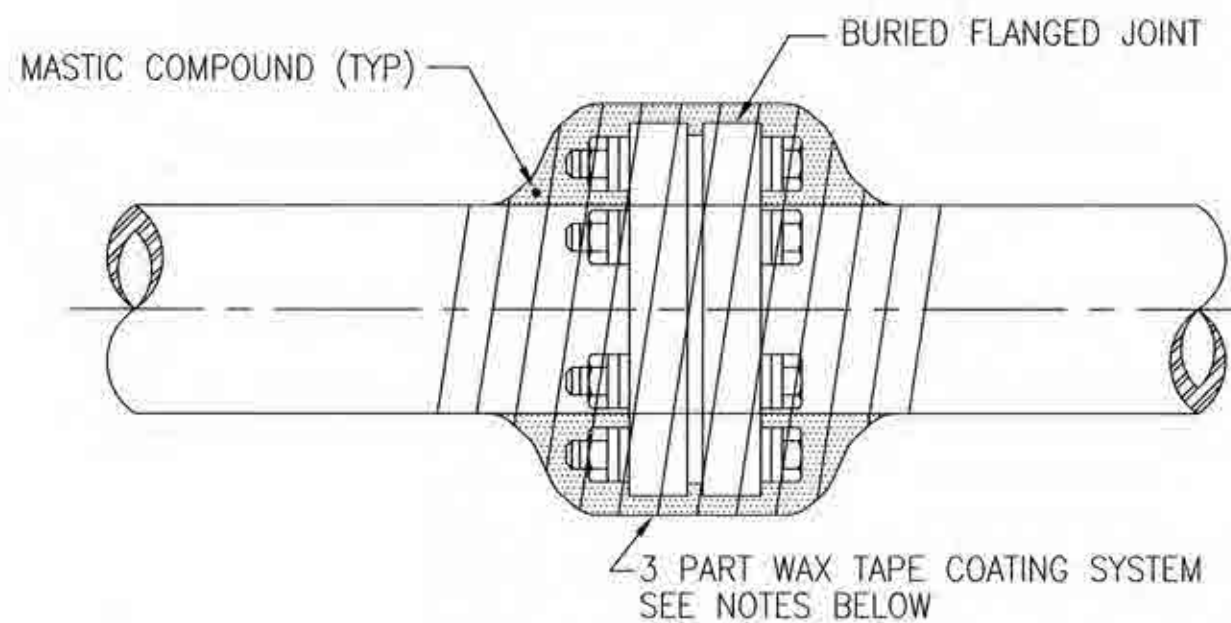
NOTES:

- ALL BURIED FLANGE JOINTS SHALL BE COATED WITH A WAX TAPE COATING SYSTEM MANUFACTURED BY TRENTON OR APPROVED EQUAL, CONSISTING OF THE FOLLOWING:
 - WAX TAPE PRIMER APPLIED ON ALL EXPOSED SURFACES OF THE FLANGE, BOLTS AND NUTS.
 - WAX TAPE WRAPPED WITH ONE (1") INCH OVERLAP ON PREVIOUSLY PRIMED SURFACES.
 - PLASTIC WRAPPER APPLIED OVER WAX TAPE.
- WAX TAPE COATING SHALL OVERLAP PIPE COATING A MINIMUM OF SIX (6") INCHES.

BURIED VALVE AND COUPLING PROTECTION

WAX TAPE INSTALLATION

DETAIL 3
NOT TO SCALE



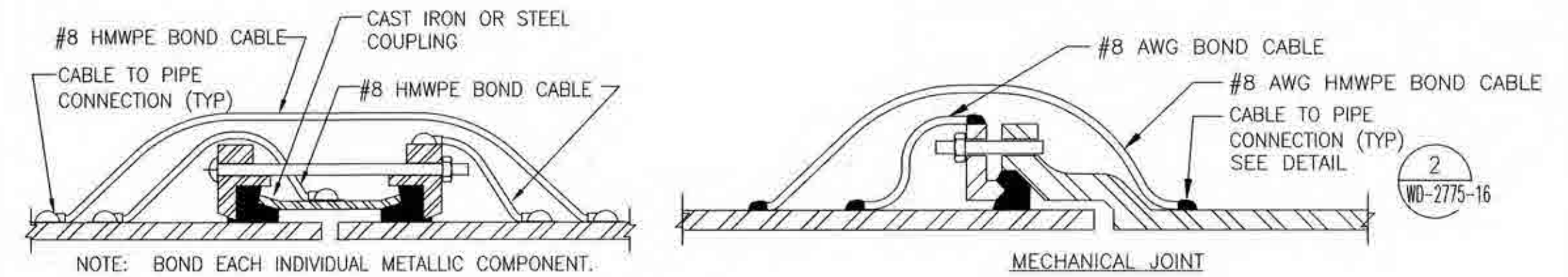
NOTES:

- BURIED INSULATING AND NON-INSULATING FLANGE JOINTS SHALL BE COATED WITH A WAX TAPE COATING SYSTEM MANUFACTURED BY TRENTON OR APPROVED EQUAL, CONSISTING OF THE FOLLOWING:
 - WAX TAPE PRIMER APPLIED ON ALL EXPOSED SURFACES OF THE FLANGE, BOLTS AND NUTS.
 - WAX TAPE WRAPPED WITH ONE (1") INCH OVERLAP ON PREVIOUSLY PRIMED SURFACES.
 - PLASTIC WRAPPER APPLIED OVER WAX TAPE.
- WAX TAPE COATING SHALL OVERLAP PIPE COATING A MINIMUM OF SIX (6") INCHES.

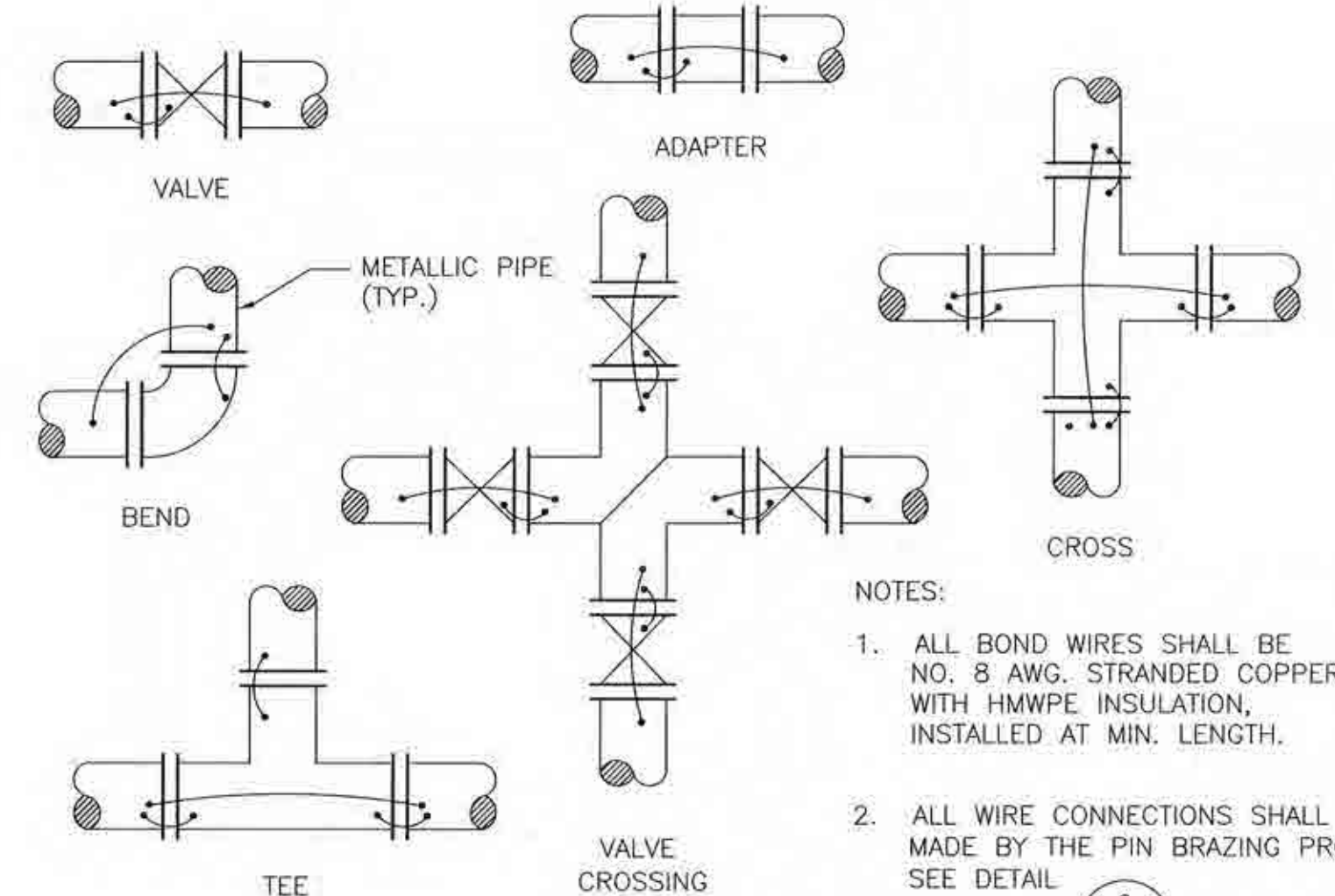
BURIED FLANGE JOINT PROTECTION

WAX TAPE INSTALLATION

DETAIL 4
NOT TO SCALE



MECHANICAL SLEEVE COUPLING

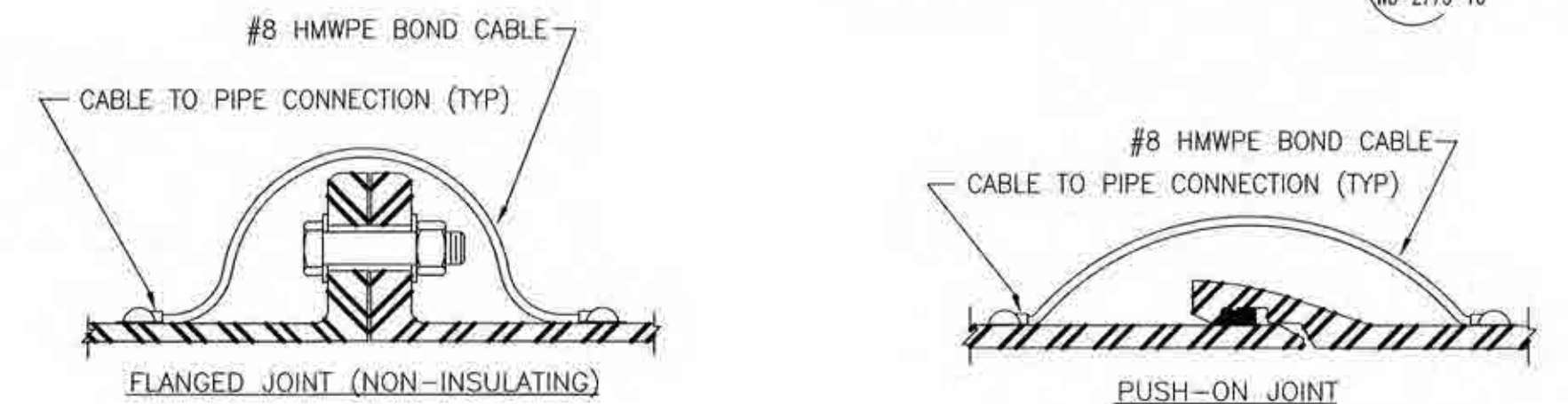


NOTES:

- SEE GENERAL NOTE 4 ON PLAN WD-2775-14.
- PROVIDE ENOUGH SLACK IN THE BOND CABLE FOR JOINT MOVEMENT.

PIPE JOINT AND MECHANICAL JOINT BONDING

DETAIL 2
NOT TO SCALE WD-2775-14



PLOT: EXTEND
SCALE: 1:1
BORDER:
22,34
COLOR: No.
RED 0.70MM
YELLOW 0.20MM
GREEN 0.25MM
CYAN 0.40MM
BLUE 0.50MM
MAGENTA 0.20MM
WHITE 0.35MM
GRAY 0.15MM
9 0.15MM
10 1.00MM
100 0.70MM
210 0.60MM

FILE: Q:\CUW2600111\WD-2775\CORROSION\100%\WD-2775-17.DWG 10/25/2018 4:55 PM

FOR REDUCED PLANS ORIGINAL SCALE IS IN INCHES

0 1 2 3 4

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REFERENCES
GATE BOOK PAGES, PLANS,
SURVEY NOTES, ETC, USED

CCSF 2013
NAVD88



NO.	DATE	DESCRIPTION	BY	APPR'D
REVISIONS				

WATER CONTRACT NO. WD-2775
CONTRACT NO. 2652J

CITY AND COUNTY OF SAN FRANCISCO
PUBLIC UTILITIES COMMISSION
INFRASTRUCTURE DIVISION
ENGINEERING MANAGEMENT BUREAU

INSTALLATION OF 16-INCH AND 36-INCH, AND RELOCATION OF
8-INCH DUCTILE IRON WATER MAINS AT VARIOUS LOCATIONS
ON 19TH AVENUE FROM HOLLOWAY AVENUE TO LINCOLN WAY

INSULATING FLANGE JOINT DETAILS

CHECKED / APPROVED	E. Yu / RT	DRAWN	Elmer Cheung	AS SHOWN
SECTION MANAGER	FILE	DESIGNED	Elmer Cheung	AUG 2018
APPROVED	John P. Wong	APPROVED	Elmer Cheung	
MANAGER, ENGINEERING MANAGEMENT BUREAU		MANAGER, CITY DISTRIBUTION DIVISION		
SHEET	OF	PLAN NO.	DRAWING NO.	REVISION NO.
		WD-2775-17	E-31386	0

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