

GENERAL NOTES:

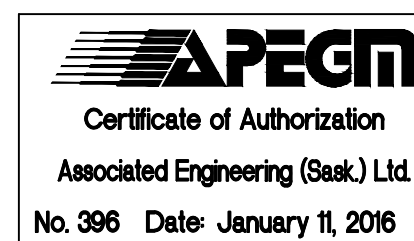
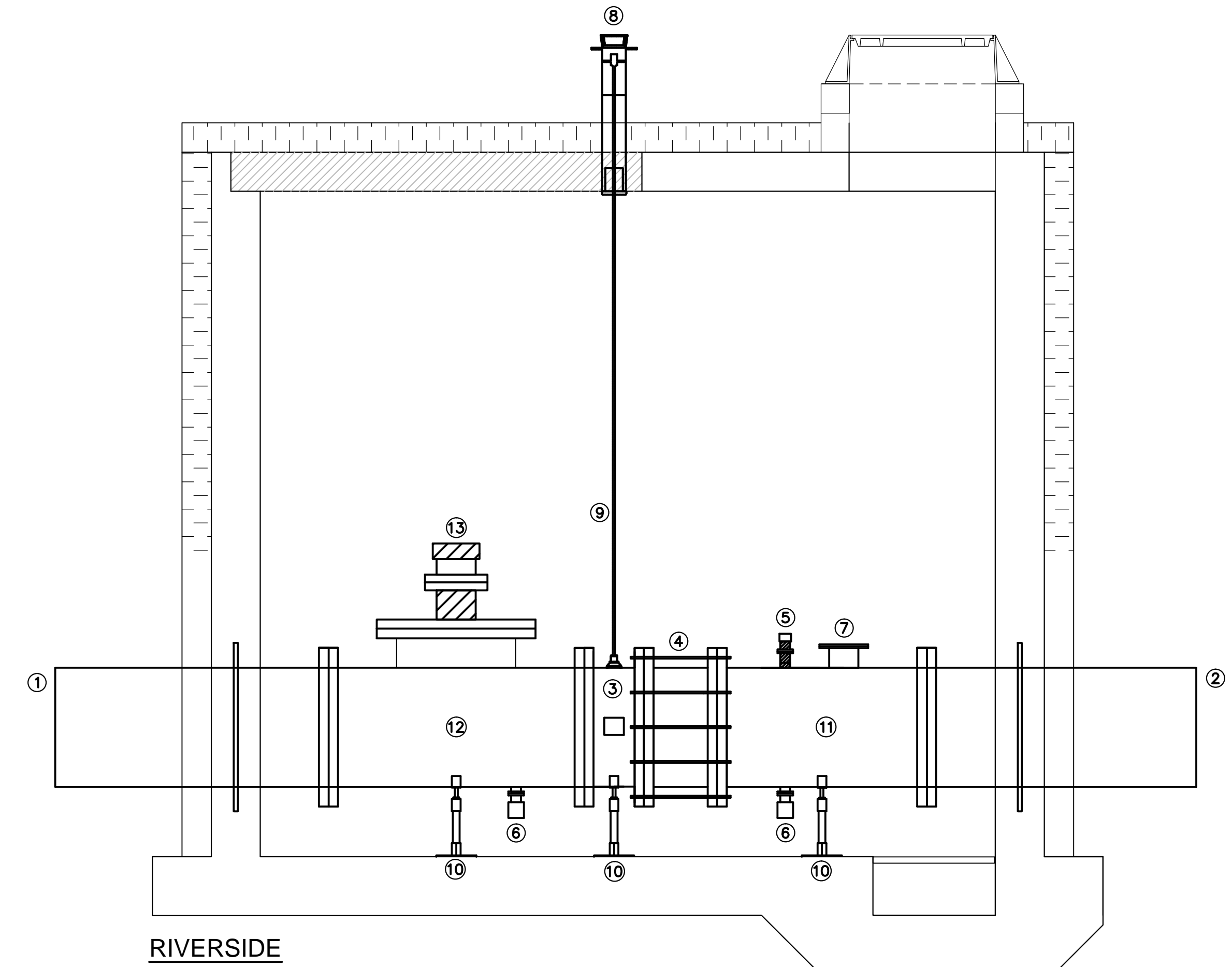
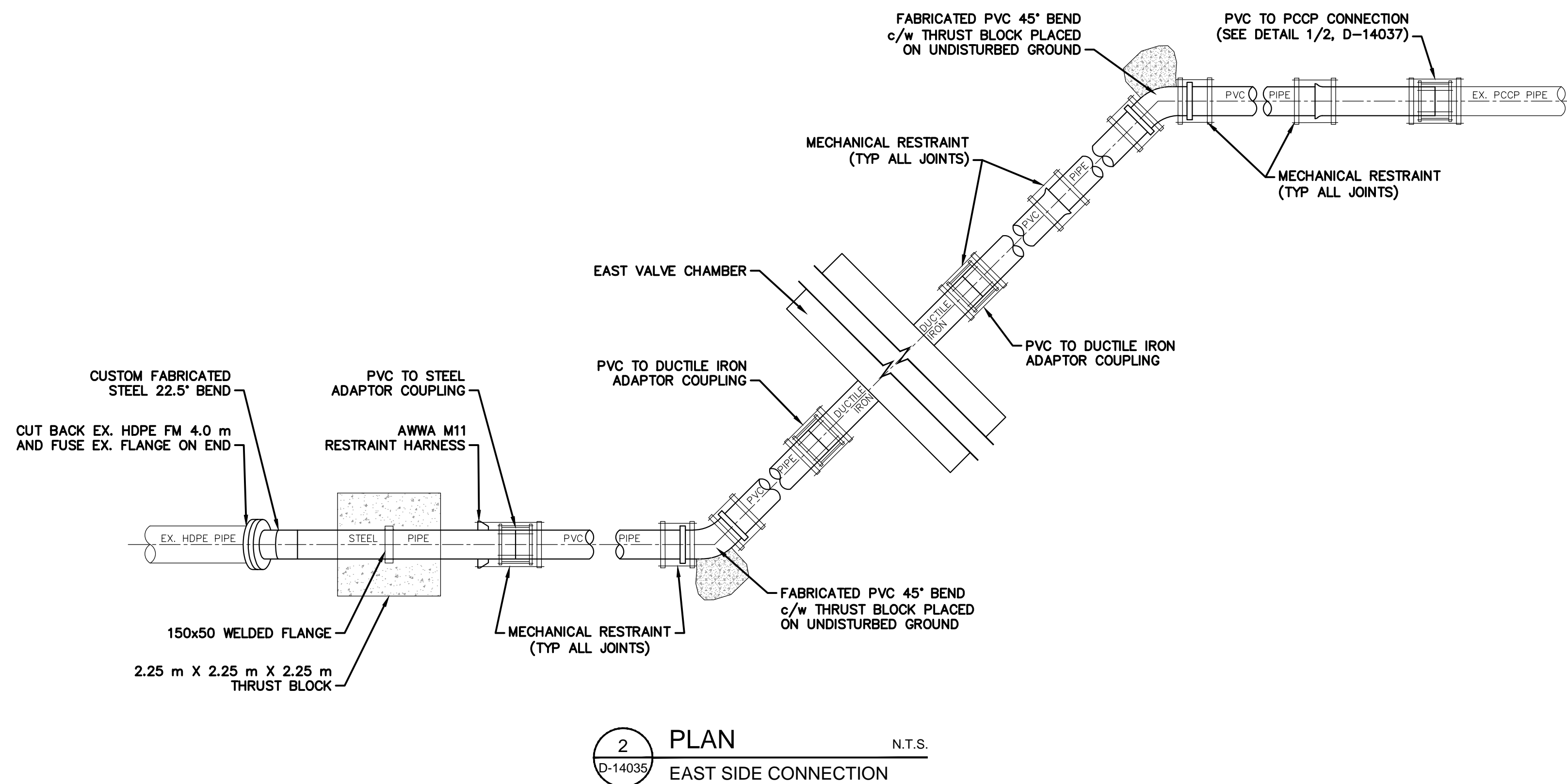
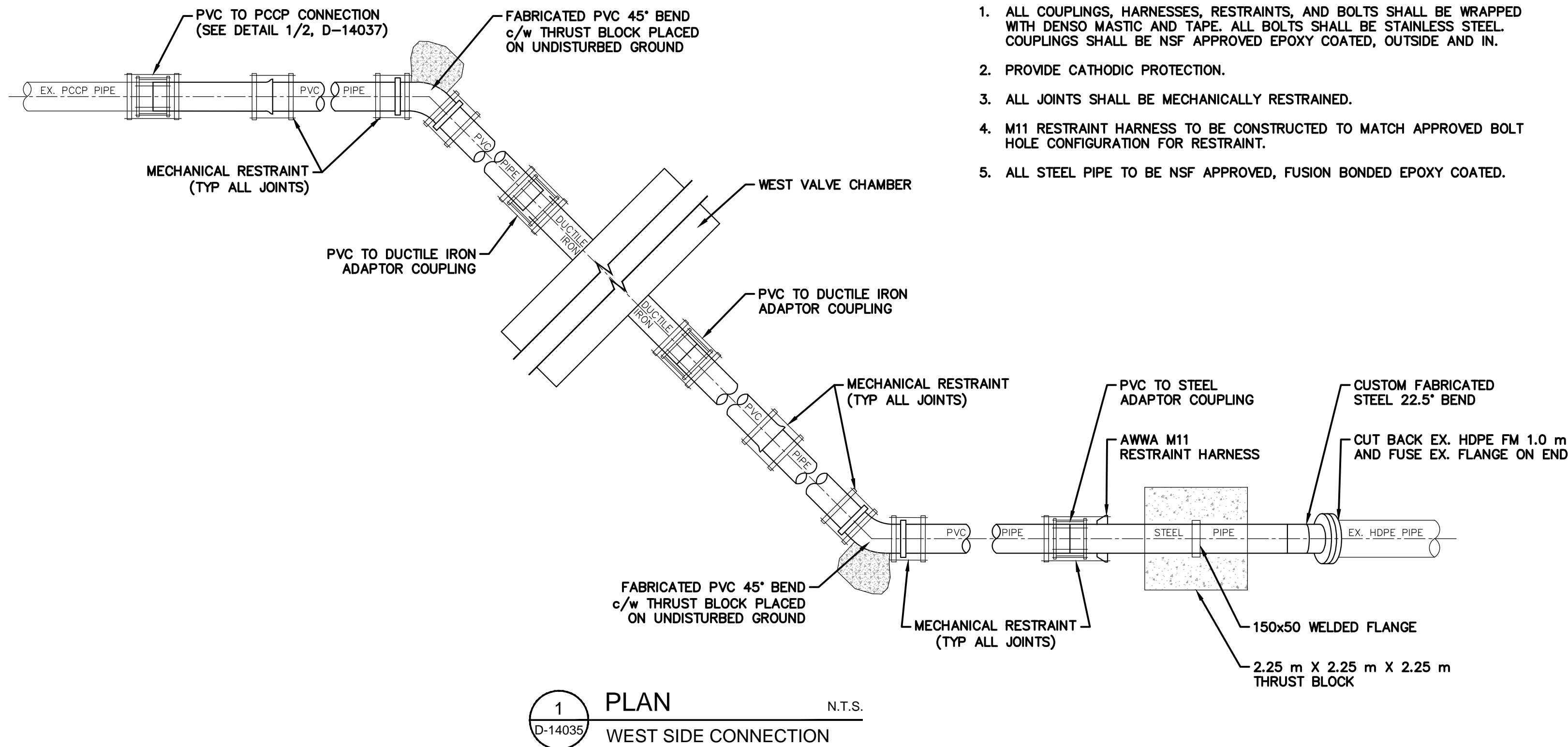
1. ALL COUPLINGS, HARNESSES, RESTRAINTS, AND BOLTS SHALL BE WRAPPED WITH DENSO MASTIC AND TAPE. ALL BOLTS SHALL BE STAINLESS STEEL. COUPLINGS SHALL BE NSF APPROVED EPOXY COATED, OUTSIDE AND IN.
2. PROVIDE CATHODIC PROTECTION.
3. ALL JOINTS SHALL BE MECHANICALLY RESTRAINED.
4. M11 RESTRAINT HARNESS TO BE CONSTRUCTED TO MATCH APPROVED BOLT HOLE CONFIGURATION FOR RESTRAINT.
5. ALL STEEL PIPE TO BE NSF APPROVED, FUSION BONDED EPOXY COATED.

ITEM AND DESCRIPTION

QUANTITY **SIZE**

1.	600 FL x PE DI WALL PIECE C/W FLANGE THRUST RESTRAINT	2	1400
2.	600 FL x PE DI WALL PIECE C/W FLANGE THRUST RESTRAINT	2	1100
3.	FL x FL 600 BUTTERFLY VALVE C/W WORM GEAR OPERATOR	2	320
4.	600 RESTRAINED DISMANTLING JOINT	2	±375
5.	50 VALVE PORT (SEE DETAIL 10, D-14037)	2	N/A
6.	75 DRAIN ASSEMBLY (SEE DETAIL 8, D-14037)	4	N/A
7.	150 INSPECTION ACCESS PORT WITH BLIND FLANGE (SEE DETAIL 9, D-14037)	2	N/A
8.	VALVE BOX ASSEMBLY, (SEE DETAIL 4, D-14037)	2	N/A
9.	VALVE STEM EXTENSION C/W STONE DISK	2	N/A
10.	ADJUSTABLE PIPE SUPPORT	6	N/A
11.	600 FL x FL DI SPOOL PIECE C/W 50 TOP AND 75 BOTTOM THREADED PORTS AND 150 TOP ACCESS PORT WITH BLIND FLANGE	2	1072
12.	600x600x600 FL DI TEE C/W 600 BLIND FLANGE WITH 200 VALVE PORT	2	1306
13.	APCO CAV MODEL 151C WITH 200 OPENING AND 3.97 mm ORIFICE - WEST CHAMBER ONLY	1	

NOTE: QUANTITIES LISTED ARE TOTAL REQUIRED FOR BOTH VALVE CHAMBERS.



LOCATION APPROVED UNDERGROUND STRUCTURES		B.M. ELEV.	
SUPV. U/G STRUCTURES COMMITTEE DATE		CONSTRUCTION COMPLETION DATE: YYYY MM DD	
NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.			
NO.	REVISIONS	DATE	BY

Associated Engineering

DESIGNED BY	CL	CHECKED BY	JL
DRAWN BY	DP	APPROVED BY	JL
SCALE:	HORIZONTAL AS SHOWN VERTICAL AS SHOWN		
DATE	2016 01 11	RELEASED FOR CONSTRUCTION	DATE
PLOT DATE:	2016 01 11		

ENGINEER'S SEAL

J.S. LUEKE
Member
36827

PROVINCE OF MANITOBA
REGISTERED PROFESSIONAL ENGINEER

CONSULTANT DRAWING NUMBER
20134376

THE CITY OF WINNIPEG
WATER AND WASTE DEPARTMENT
ENGINEERING DIVISION

Winnipeg

NORTH KILDONAN FEEDERMAIN
VALVE CHAMBERS AND CONNECTIONS
CONNECTIONS
DETAILS

SHEET 4 OF 9
CITY DRAWING NUMBER
D-14036