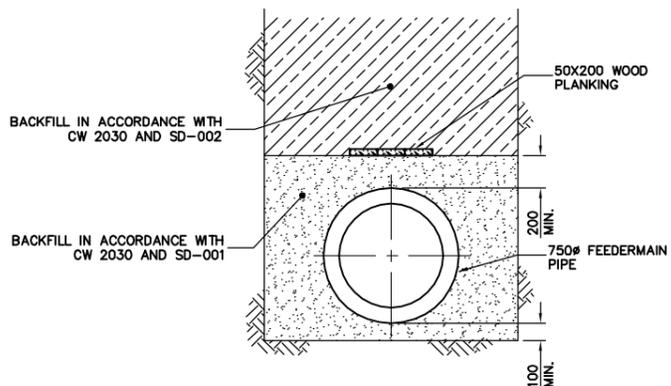


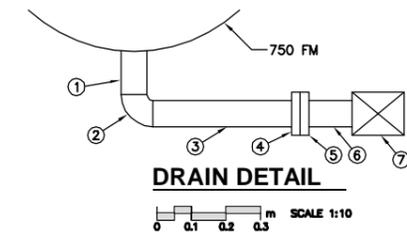
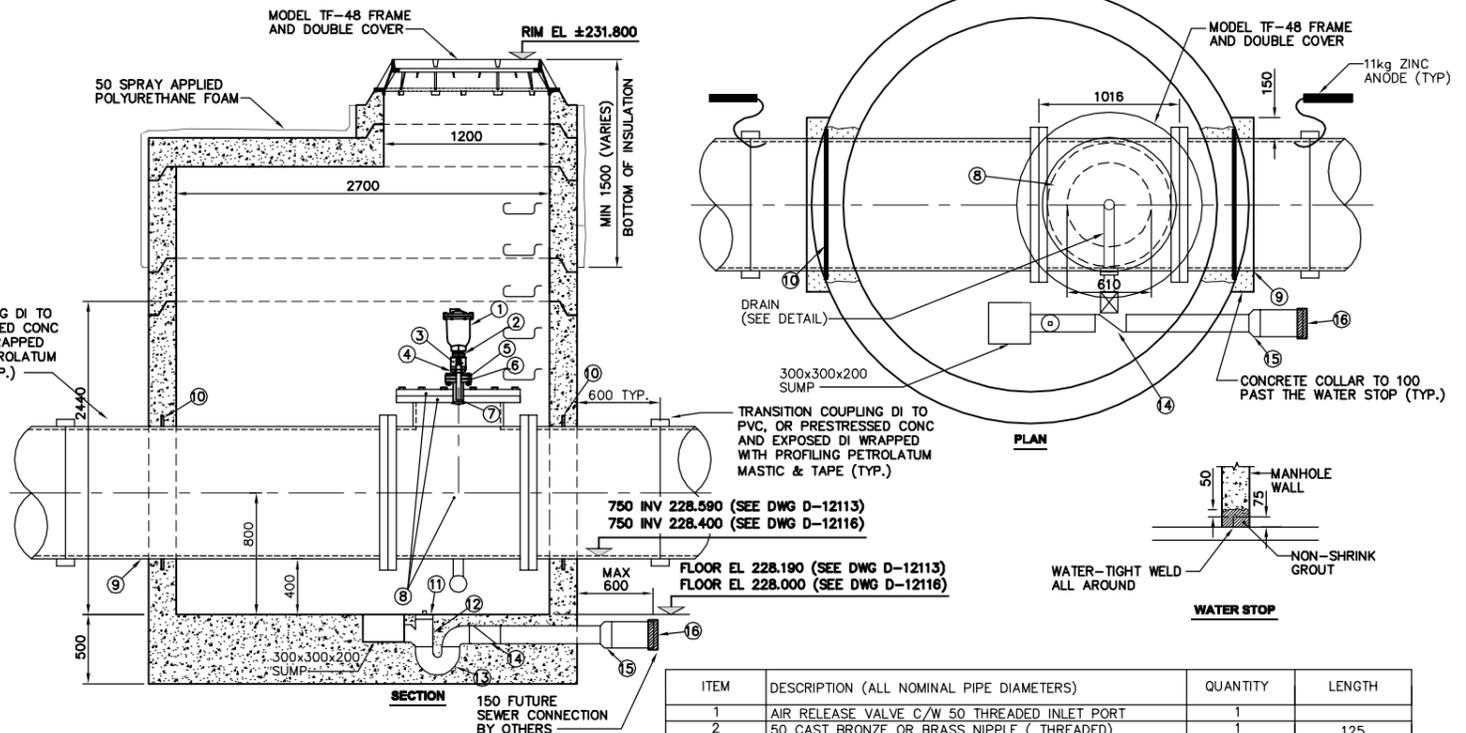
**THRUST BLOCK DETAIL**  
SCALE NTS



**PAVEMENT CROSSING DETAIL**  
SCALE NTS

THRUST BLOCK DIMENSIONS				
PIPE DIA.	ANGLE	BEARING AREA (m <sup>2</sup> )	H (m)	W (m)
750	22.5	3.30	1.5	2.2
750	45.0	6.59	2.1	3.2
750	60.0	9.45	2.1	4.5
750	PLUG	7.9	2.4	3.3

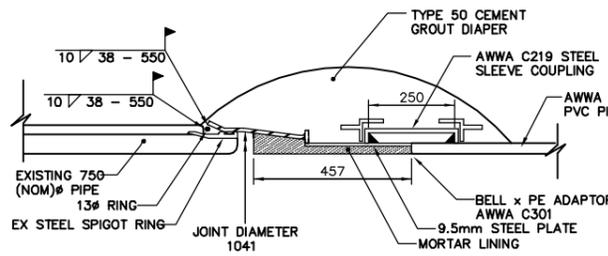
REINFORCING :  
20 M @ 225 O.C., BOTH WAYS



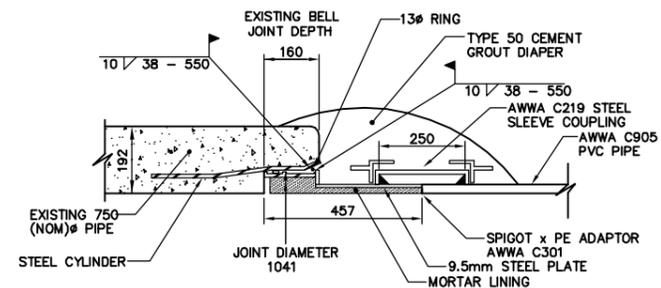
ITEM	DESCRIPTION	QUANTITY	LENGTH
1	75 SCHEDULE 80 STEEL NIPPLE (THREADED)	1	125
2	75 SCHEDULE 80 STEEL 90 (THREADED)	1	
3	75 SCHEDULE 80 STEEL NIPPLE	1	600
4	75 STEEL FLANGE CL 125 (THREADED) C/W ISOLATION KIT	1	
5	75 BRASS BRONZE FLANGE (THREADED)	1	
6	75 BRASS NIPPLE (THREADED)	1	125
7	75 BRASS BALL VALVE	1	

ITEM	DESCRIPTION (ALL NOMINAL PIPE DIAMETERS)	QUANTITY	LENGTH
1	AIR RELEASE VALVE C/W 50 THREADED INLET PORT	1	
2	50 CAST BRONZE OR BRASS NIPPLE ( THREADED)	1	125
3	50 BRONZE GATE VALVE (THREADED)	1	
4	50 CAST BRONZE OR BRASS NIPPLE ( THREADED)	1	125
5	50 CAST BRONZE OR BRASS FLANGE ( THREADED)	1	
6	50 BRASS FLANGE CL 125 ( THREADED)	1	
7	50 BRASS NIPPLE ( THREADED)	1	125
8	750x750x600 DUCTILE IRON TEE (FLXFLX) C/W 600 CLASS D BLIND FLANGE AND THREADED TAP	1	1016
9	750Ø WALL PIECE CLASS 54 DUCTILE IRON (FLxPE)	2	TO SUIT
10	WATER STOP (SEE DETAIL)	2	12 x 75
11	100 PVC DWV THREADED CAP	1	
12	100 PVC DWV STREET TEE	1	
13	100 PVC DWV P-TRAP	1	
14	100 PVC BACKWATER VALVE	1	
15	100x150 PVC REDUCER	1	
16	150 PVC PLUG	1	

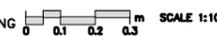
**AIR VALVE / ACCESS MANHOLE DETAIL**



**750Ø BELL TO PVC CONNECTION**



**750Ø SPIGOT TO PVC CONNECTION**



NOTE: ALL EXPOSED STEEL INCLUDING PIPE COUPLING COATED AS PER AWWA C210

B.M. ELEV.	FIELD BOOK #:
POSTED TO LBIS	
DESIGNED BY DB	CHECKED BY KZ
DRAWN BY WKT	APPROVED BY KZ
HOR. SCALE AS SHOWN	RELEASED FOR CONSTRUCTION
NO. REVISIONS	DATE BY
	DATE 2010 06 15

**CITY OF WINNIPEG**  
WATER AND WASTE  
ENGINEERING DIVISION

ENGINEER'S SEAL  
ORIGINAL MYLAR SIGNED BY  
K.R. ZUREK  
10/06/15

BID OPPORTUNITY 476-2010  
FILENAME : D-12118.dwg  
PLOT DATE: 2010 06 15

**THE CITY OF WINNIPEG**  
WATER AND WASTE DEPARTMENT

2010 FEEDERMAIN INSTALLATION  
AND ASSOCIATED WORKS  
BISON DRIVE  
MISCELLANEOUS DETAILS  
WAVERLEY STREET TO KENASTON BOULEVARD

**Winnipeg**

SHEET 7 OF 10  
CITY DRAWING NUMBER  
D-12118

METRIC  
WHOLE NUMBERS INDICATE MILLIMETRES  
DECIMALIZED NUMBERS INDICATE METRES