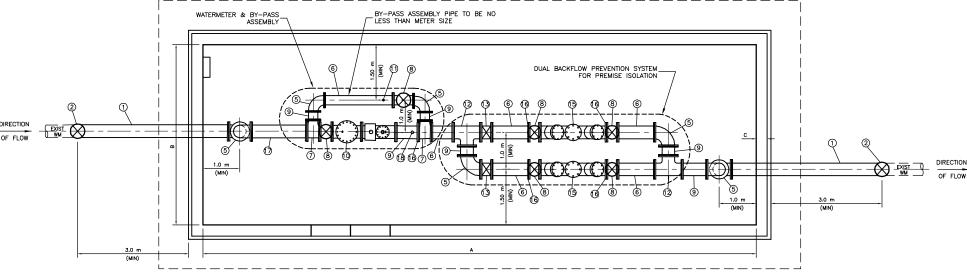


TYPICAL FRONT ELEVATION
SCALE 1:40



PLAN SCALE 1:50

MATERIALS LIST

GATE VALVE (SLIP-ON) - APPROVED PRODUCT FOR USE BY THE CITY OF WINNIPEG MECHANICAL COUPLING - APPROVED PRODUCT FOR USE BY THE CITY OF WINNIPEG 90° C.I. BEND (FLANGED) 6 C.I. PIPE (FLANGED) C.I. TEE (FLANGED) C.I. GATE VALVE (FLANGED) — RISING STEM Q, S & Y C.I. SPOOL PIECE (FLANGED) WATER METER - FIRE PROTECTION RATED (FLANGED) - AS APPROVED BY CITY OF WINNIPE AIR RELEASE VALVE (12) C.I. TEE (FLANGED) DRAIN VALVE - SIZE DETERMINED BY REGISTERED ENGINEER BACK FLOW PREVENTION DEVICE (FLANGED) - AS APPROVED BY CITY

CONCRETE FLOOR SLAB DIMENSIONS X AND Y AS WELL AS THICKNESS AND DEMENSIONS OF INSULATION TO BE DETERMINED BY A REGISTERED ENGINEER (MIN 50 THICKNESS)

DETAIL 'A' SCALE 1:20

FROST PROOF SLAB STRUCTURE TO BE DESIGNED BY A STRUCTURAL ENGINEER

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

FOR INFORMATION ONLY

UST:

NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.

TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.

THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT Winnipèg

NOT FOR CONSTRUCTION

GENERAL REQUIREMENTS FOR WATER SERVICE METER STRUCTURES

SHEET 1 OF 1 CITY DRAWING NUMBER D-11318

B.M. FIELI		FIELD BOOK	: #:		CITY OF WINNIPEG			
POSTED TO LBIS					Water and Waste			
					ENGINEERING DIVISION			
					DESIGNED BY	DB	CHECKED BY	TW
					DRAWN BY	WKT/CJH	APPROVED BY	ĸw
					HOR. SCALE AS SHOWN		RELEASED FOR CONSTRUCTION	
NO.	REVISIONS		DATE	BY	DATE	2008 03 13	DATE	

DIMENSIONS A, B & C TO FACILITATE SPACE FOR ALL PIPES & FITTINGS FOR REQUIRED SERVICE DIAMETER.

* METER BUILDING TO BE FROST PROTECTED SLAB ON GRADE CONSTRUCTED OF ADAQUATE SIZE TO ACCOMODATE ALL PIPES & FITTINGS. ALL BUILDING DESIGNS TO BE CERTIFIED BY AND STAMPED BY A REGISTERED ENGINEER.

- 1. METERS SHALL BE FIRE SERVICE TYPE IN ACCORDANCE WITH THE LATEST REVISION OF AWWA C703.

 2. THE METER ASSEMBLY C/W REMOTE READ OUT WILL BE SUPPLIED AND INSTALLED BY THE CITY.
 FLANGES ARE TO BE ANSI B16.1 125 Ib DRILLED

 3. PROVIDE MINIMUM OF 5 DIAMETER LENGTHS OF STRAIGHT PIPE UPSTREAM & DOWNSTREAM OF INLET CONTROL VALVE FOR WATER METER, OR MIN. NUMBER OF DIAMETERS AS INDICATED BY THE MANUFACTURER.

 4. PROVIDE AN ELECTRICAL CONDUIT C/W COLOR CODED STRANDED COPPER WIRE AND POST TO ACCOMODATE A REMOTE READ OUT FROM THE METER TO THE CITY SIZE AND LOCATION TO BE DETERMINED BY A REGISTERED ENGINEER.

 5. ANCHOR PIPE TO BUILDING FLOOR AND PROVIDE THRUST BLOCKS FOR TEES & ELBOWS.

 6. PROVIDE LIFTING LUGS OVER METER, STRAINER AND BACKFLOW PREVENTION DEVICE(S).

 7. FLOOR TO CENTRETIINF OF PIPE DIMENSION TO BE 500 mm.

- 7. FLOOR TO CENTRELINE OF PIPE DIMENSION TO BE 600 mm. 8. PROVIDE ADEQUATE PIPE SUPPORT INSIDE BUILDING.
- 8. PROVIDE ADEQUATE PIPE SUPPORT INSIDE BUILDING.
 9. VALVES INSIDE METER BUILDING SHALL BE RESILIENT SEATED RISING SPINDLE (OS & Y) FLANGED GATE VALVES, CSA APPROVED.
 10. MINIMUM BY-PASS PIPING SIZE SHALL BE NOT LESS THAN METER SIZE.
 11. BURIED GATE VALVES SHALL BE IN ACCORDANCE WITH CITY OF WINNIPEG SPECIFICATIONS
 NO. AT-4.1.1.80 AND CONFORMANCE WITH AWWA 509.

- NO. AT—4.1.1.80 AND CONFORMANCE WITH AWMA 509.

 12. BACKFLOW PREVENTION DEVICES SHALL BE WATTS, CONBRACO, WILKINS ZURIN, AMES, FEBCO OR AN APPROVED EQUAL.

 13. BACKFLOW DEVICES USED IN CONJUNCTION WITH FIRE PROTECTION SYSTEMS MUST BE UL, ULC OR FM APPROVED DEVICES.

 14. DOUBLE CHECK VALVE ASSEMBLY BACKFLOW DEVICES ARE FOR MODERATE HAZARD APPLICATIONS. REDUCED PRESSURE BACKFLOW DEVICES ARE FOR HIGH HAZARD APPLICATIONS. CONSULT THE CITY'S WATER AND WASTE DEPARTMENT FOR DETERMINING WHAT TYPE OF HAZARD CLASSIFICATION.
- 15. REDUCED PRESSURE BACKFLOW DEVICES REQUIRE DRAIN VALVES THAT ARE SIZED TO FACILITATE PROPER AIR GAP FITTING DRAINAGE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

 16. PROVIDE ELECTRIC POWER SUPPLY (BY OTHERS) TO ADEQUATELY RUN ALL LIGHTS, HEAT AND OTHER COMPONENTS.

 17. ALL METER AND BACKFLOW PREVENTION DESIGNS SUBJECT TO APPROVAL BY THE CITY PRIOR TO CONSTRUCTION.

 18. INCLUDE A 75 mm TEST PORT A MINIMUM OF 5 PIPE DIAMETERS DOWNSTREAM OF METER FLANGE.

 19. FLOOR DRAINS REQUIRED TO BE INSTALLED IN BUILDING AND MUST BE CONNECTED TO A WASTEWATER SEWER.