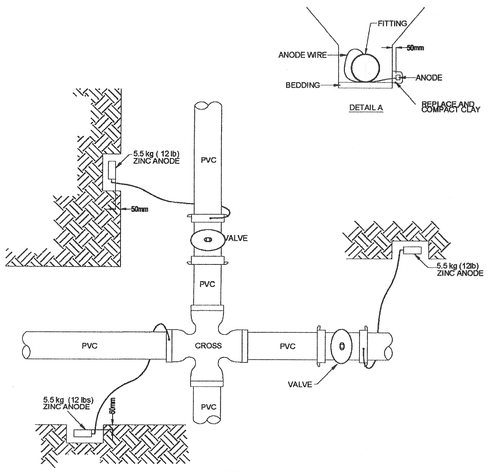


NOTES:

1. ALL ANODES TO BE 5.5 kg ZINC
2. INSTALL ANODE AT PIPE DEPTH IN NATIVE SOIL
3. MIN. DISTANCE FROM ANODE TO PIPE IS 150mm
4. MIN. DISTANCE FROM ANODE TO THRUST BLOCK IS 300 mm
5. ANODES TO BE EMBEDDED IN UNDISTURBED TRENCH WALL WITH A MIN. OF 50mm OF NATIVE CLAY COVER AROUND ANODE

REVISIONS	
Date	Details
DD/MM/YY	
DD/MM/YY	
DD/MM/YY	

St. Albert Engineering Services

5 ST. ANNE STREET, ST. ALBERT
Alberta, T8N 3Z9, CANADA

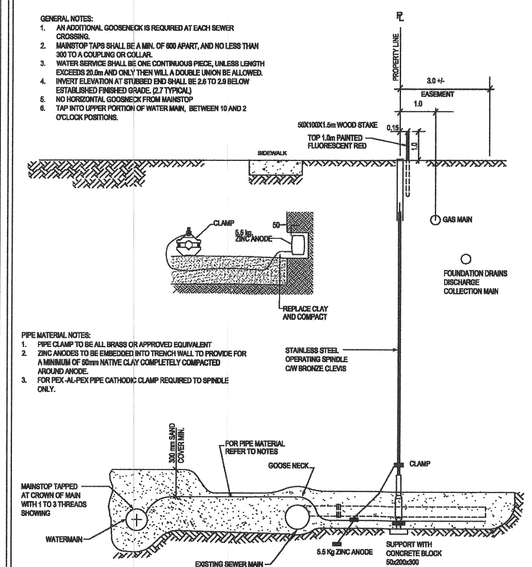
Cathodic Protection for Watermain Fittings

Engineering Department
Date: 01/01/12 | Scale: N.T.S.

Drawing Number: **No. 5.9**

GENERAL NOTES:

1. AN ADDITIONAL GOOSENECK IS REQUIRED AT EACH SEWER CROSSING.
2. MAINSTOP TAPS SHALL BE A MIN. OF 600 APART, AND NO LESS THAN 300 TO A COUPLING OR COLLAR.
3. WATER SERVICE SHALL BE ONE CONTINUOUS PIECE, UNLESS LENGTH EXCEEDS 20.0m AND ONLY THEN WILL A DOUBLE UNION BE ALLOWED.
4. INVERT ELEVATION AT STUBBED END SHALL BE 2.0 TO 2.5 BELOW ESTABLISHED FINISHED GRADE. (2.7 TYPICAL)
5. NO HORIZONTAL GOOSNECK FROM MAINSTOP
6. TAP INTO UPPER PORTION OF WATER MAIN, BETWEEN 10 AND 2 O'CLOCK POSITIONS.



PIPE MATERIAL NOTES:

1. PIPE CLAMP TO BE ALL BRASS OR APPROVED EQUIVALENT
2. ZINC ANODES TO BE EMBEDDED INTO TRENCH WALL TO PROVIDE FOR A MINIMUM OF 50mm NATIVE CLAY COMPLETELY COMPACTED AROUND ANODE.
3. FOR PEX-AL-PEX PIPE CATHODIC CLAMP REQUIRED TO SPINDLE ONLY.

REVISIONS	
Date	Details
DD/MM/YY	
DD/MM/YY	
DD/MM/YY	

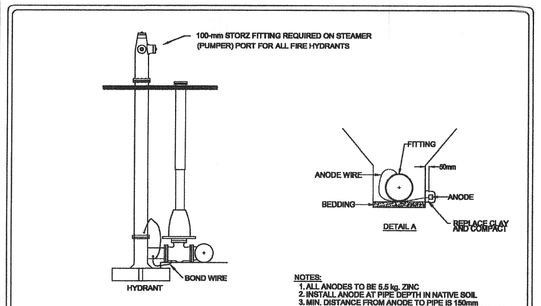
St. Albert Engineering Services

5 ST. ANNE STREET, ST. ALBERT
Alberta, T8N 3Z9, CANADA

Cathodic Protection Typical Connection Water Service

Engineering Department
Date: 01/01/12 | Scale: N.T.S.

Drawing Number: **No. 5.11**



NOTES:

1. ALL ANODES TO BE 5.5 kg. ZINC
2. INSTALL ANODE AT PIPE DEPTH IN NATIVE SOIL
3. MIN. DISTANCE FROM ANODE TO PIPE IS 150mm
4. MIN. DISTANCE FROM ANODE TO THRUST BLOCK IS 300 mm
5. ANODE TO BE EMBEDDED IN UNDISTURBED TRENCH
6. WALL WITH A MIN. OF 50mm OF NATIVE CLAY COVER AROUND THE ANODE

REVISIONS	
Date	Details
DD/MM/YY	
DD/MM/YY	
DD/MM/YY	

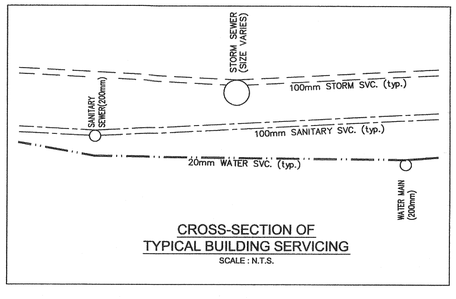
St. Albert Engineering Services

5 ST. ANNE STREET, ST. ALBERT
Alberta, T8N 3Z9, CANADA

Cathodic Protection for Hydrants

Engineering Department
Date: 01/01/12 | Scale: N.T.S.

Drawing Number: **No. 5.10**



CROSS-SECTION OF
TYPICAL BUILDING SERVICING
SCALE : N.T.S.

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2	12-12-20	RE-ISSUED FOR APPROVAL	AHB
1	12-09-28	ISSUED FOR APPROVAL	AHB

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MARY V. MERKOSKY

ENGINEER

CITY OF ST. ALBERT
ENGINEERING SERVICES
EXAMINED

Per Greg Persson
Date Feb 19, 2013
Signature

PROJECT

NOBLE GREENS TOWNHOUSES

LOT 102, BLOCK 12, PLAN 072 6741
ST. ALBERT, ALBERTA

DRAWING TITLE

STANDARD DETAILS

Project number	Date
C11-028	15 DEC 2011
	Scale 1:300
Drawn by AHB	Checked by
C-104	REVISION 3