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SITE ACCESS

SITE ACCESS IS ALONG THE EXISTING DRIVEWAY THEN ALONG THE SOUTH SIDE OF THE EXISTING PROPERTY. THE OWNER WILL REMOVE ITEMS OF OBSTRUCTION AND MARK THE ACCESS ROUTE.

REINFORCEMENT AND CONCRETE SPECIFICATION

- CAST-IN-PLACE PILES ARE 400 mm DIA x 7.50 m LONG, C/W 4-15M x 7 m, 3-10M TIES @ 150 mm FROM TOP, W/ REMAINDER @ 900 mm.
- BASED ON TABLES 1,2,3, AND 4 OF CSA A23.1-04, THE CONCRETE SPECIFICATIONS ARE AS OUTLINED BELOW:

PILES AND CAPS

56 DAY MINIMUM COMPRESSIVE STRENGTH OF 32 MPa  
 MAXIMUM WATER/CEMENT RATIO OF 0.45  
 MAXIMUM NOMINAL AGGREGATE SIZE OF 20 mm.  
 TYPE HS OR HSb CEMENT  
 AIR CONTENT OF 4-7 %

FOUNDATION WALLS AND RETAINING WALL

28 DAY MINIMUM COMPRESSIVE STRENGTH OF 32 MPa  
 MAXIMUM WATER/CEMENT RATIO OF 0.55  
 MAXIMUM NOMINAL AGGREGATE SIZE OF 20 mm.  
 TYPE Gu OR Gub CEMENT  
 AIR CONTENT OF 4-7 %

PATIO SLABS

28 DAY MINIMUM COMPRESSIVE STRENGTH OF 32 MPa  
 MAXIMUM WATER/CEMENT RATIO OF 0.45  
 MAXIMUM NOMINAL AGGREGATE SIZE OF 20 mm.  
 TYPE Gu OR Gub CEMENT  
 AIR CONTENT OF 5-8 %

ICF FORMS

- 300 mm THICK LOGIX OR EQUIVALENT ICF FORM WITH A 203 mm THICK CONCRETE CORE

STEEL

- ALL REINFORCING SHALL BE FREE FROM LOOSE RUST, MUD OIL OR OTHER MATERIAL THAT REDUCES BOND, AND SHALL BE NEW BILLET DEFORMED BARS CONFORMING TO CSA STANDARDS 400 MPa.

NOTES

1. ICF FOUNDATION WALL DETAILS TO FOLLOW LOGIX INSULATED FORM WORK 2012 DESIGN MANUAL.

NO.	DATE	ISSUE / REVISION
0	Mar. 31, 14	Permit/Construction



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 PROFESSIONAL ENGINEER



Certificate of Authorization  
 ENG-TECH Consulting Limited  
 No.2475 Expiry: April 30, 2014

CLIENT:  
 CITY OF WINNIPEG

PROJECT:  
 FLOOD PROTECTION DESIGN  
 70 MACBELL ROAD  
 WINNIPEG, MANITOBA

DWG DESCRIPTION:  
 TABLE OF CONTENTS AND  
 CONSTRUCTION NOTES

SCALE:  
 N/A

DRAWN BY: TDR DATE: MARCH 2014

FILE No.: 11-217-06 CLIENT DWG/FIG. No.:

ENG-TECH DWG/FIG. No.: 0 NO.: