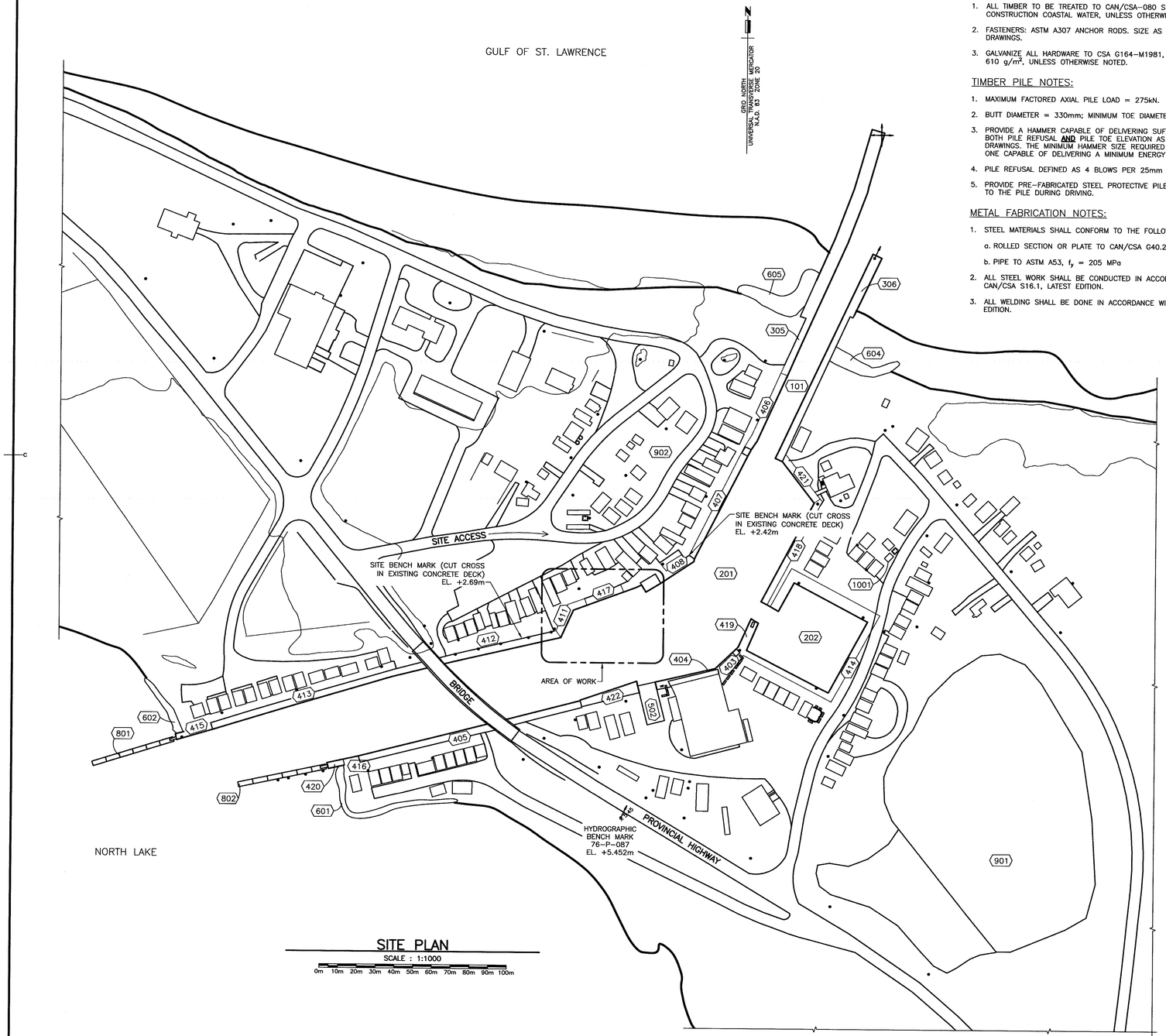


SITE PLAN

SCALE : 1:1000

0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m

CONCRETE NOTES:

1. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH CAN/CSA A23.1, CAN/CSA A23.2 AND CAN/CSA A23.3.
2. CONCRETE CLASS OF EXPOSURE = C1. MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS = 35 MPa, 20mm MAX AGGREGATE SIZE, MAX WATER CEMENT RATIO = 0.40, AIR ENTRAINMENT = 5% – 7%.
3. GROUT: 45MPa AT 28 DAYS, w/c RATIO = 0.4, AIR ENTRAINMENT 6% – 8%.
4. COVER TO REINFORCING = 75mm UNLESS OTHERWISE NOTED.
5. REINFORCING STEEL TO CSA G30.18 M92 Gr. 400W.
6. PROVIDE SELF PENETRATING SILANE SEALER FOR ALL CONCRETE SURFACES.

TIMBER NOTES:

1. ALL TIMBER TO BE TREATED TO CAN/CSA-080 SERIES M-89 FOR MARINE CONSTRUCTION COASTAL WATER, UNLESS OTHERWISE NOTED.
2. FASTENERS: ASTM A307 ANCHOR RODS. SIZE AS INDICATED ON THE DRAWINGS.
3. GALVANIZE ALL HARDWARE TO CSA G164-M1981, MINIMUM ZINC COATING OF 610 g/m², UNLESS OTHERWISE NOTED.

TIMBER PILE NOTES:

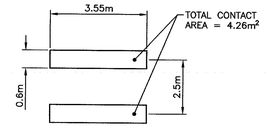
1. MAXIMUM FACTORED AXIAL PILE LOAD = 275kN.
2. BUTT DIAMETER = 330mm; MINIMUM TOE DIAMETER = 200mm.
3. PROVIDE A HAMMER CAPABLE OF DELIVERING SUFFICIENT ENERGY TO ACHIEVE BOTH PILE REFUSAL **AND** PILE TOE ELEVATION AS INDICATED ON THE DRAWINGS. THE MINIMUM HAMMER SIZE REQUIRED TO MEET PILE REFUSAL IS ONE CAPABLE OF DELIVERING A MINIMUM ENERGY EQUAL TO 24,750 JOULES.
4. PILE REFUSAL DEFINED AS 4 BLOWS PER 25mm OF PILE PENETRATION.
5. PROVIDE PRE-FABRICATED STEEL PROTECTIVE PILE SHOE TO PREVENT DAMAGE TO THE PILE DURING DRIVING.

METAL FABRICATION NOTES:

1. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
   a. ROLLED SECTION OR PLATE TO CAN/CSA G40.21M Gr.350W
   b. PIPE TO ASTM A53, f_y = 205 MPa
2. ALL STEEL WORK SHALL BE CONDUCTED IN ACCORDANCE WITH CAN/CSA S16.1, LATEST EDITION.
3. ALL WELDING SHALL BE DONE IN ACCORDANCE WITH CSA W59, LATEST EDITION.

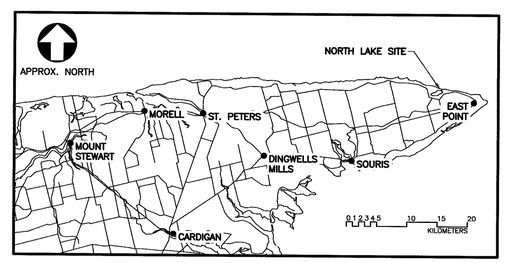
NOTES:

1. EXISTING CONDITIONS BASED ON DRAWINGS PROVIDED BY PWGSC AND BY SURVEY CONDUCTED BY DEREK A. FRENCH PROFESSIONAL SERVICES INC., DATED OCT 9, 2012.
2. ELEVATIONS ARE BASED ON HYDROGRAPHIC BENCH MARK NUMBER 76-P-087 LOCATED ON THE CONCRETE SLAB OF THE HARBOUR LIGHT (REAR RANGE LIGHT) WITH A PUBLISHED CHART DATUM ELEVATION OF +5.452 METRES.
3. ALL ELEVATIONS SHOWN REFERENCED TO CHART DATUM. CHART DATUM IS, BY INTERNATIONAL AGREEMENT, A PLANE BELOW WHICH THE TIDE WILL SELDOM FALL. THE CANADIAN HYDROGRAPHIC SERVICE HAS ADOPTED THE PLANE OF LOWEST NORMAL TIDE (L.N.T.) AS CHART DATUM. AS THE RISE AND FALL OF TIDES VARIES DAILY, THE CANADIAN TIDE AND CURRENT TABLES, AS ISSUED BY THE CANADIAN HYDROGRAPHIC SERVICE, SHOULD BE CONSULTED FOR TIDAL PREDICTIONS AND OTHER TIDAL INFORMATION RELATING TO THE WORK.
4. DO NOT SCALE FROM THE DRAWINGS.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
6. GEOTECHNICAL INFORMATION AS PER STANTEC CONSULTING LTD. GEOTECHNICAL REPORT, JOB No. 121615040 – FILE No. 3426, DATED NOVEMBER 27, 2012. FOR OTHER PERTINENT INFORMATION REGARDING THE BOREHOLES THE CONTRACTOR MUST REVIEW THE COMPLETE GEOTECHNICAL REPORT, AVAILABLE UPON REQUEST. ADDITIONAL BOREHOLE DATA (BH206, BH207, BH208) PROVIDED BY PWGSC.
7. ANY INFORMATION PERTAINING TO SOILS AND ALL BOREHOLE DATA IS FURNISHED BY THE DEPARTMENTAL REPRESENTATIVE AS A MATTER OF INFORMATION ONLY, AND BOREHOLE DATA IS NOT TO BE INTERPRETED AS DESCRIPTIVE OF CONDITIONS AT LOCATIONS OTHER THAN THOSE DESCRIBED BY THE BOREHOLES THEMSELVES.
8. ANY STOCKPILING OF MATERIAL ON SITE WILL BE AT A LOCATION COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE AND THE LOCAL HARBOUR AUTHORITY.
9. THE CONTRACTOR SHALL BE HELD TO HAVE VISITED THE SITE AND TO HAVE BECOME FAMILIAR WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING THE WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INFORM THE DEPARTMENTAL REPRESENTATIVE IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THE PLAN BEFORE STARTING THE WORK.
10. CONTRACTOR TO COORDINATE ALL WORK WITH PWGSC AND THE LOCAL HARBOUR AUTHORITY. NO WORK SHALL BE COMPLETED IN SUCH A MANNER AS TO INTERFERE WITH HARBOUR OPERATIONS IN ANY WAY. THE SECTION OF WHARF TO BE RECONSTRUCTED WILL BE AVAILABLE FOR CONSTRUCTION ACCESS AFTER JULY 15, 2015.
11. SPECIFIED DESIGN LIVE LOADS (UNIFORM LOAD AND EXCAVATOR LOADS ARE NOT COINCIDENT).
    a. UNIFORM LOAD EQUAL TO 15 Kpa.
    b. EXCAVATOR LOADING AS INDICATED.



TOTAL OPERATING WEIGHT = 202kN
LATERAL PULL = 118kN

12. CONTRACTOR RESPONSIBLE TO PERFORM A PRE-DREDGING AND POST DREDGING SURVEY (SOUNDINGS) OF HARBOUR BOTTOM. THE CONTRACTOR SHALL ALSO PROVIDE SOUNDINGS OF THE HARBOUR BOTTOM AFTER THE INSTALLATION OF FILLS IN ORDER TO DETERMINE IF DISPLACED MATERIAL HAS BEEN MOVED INTO THE CHANNEL. THE EXTENTS OF THE SOUNDINGS FOR THE PRE-DREDGING SURVEY SHALL BE TO THE DREDGING LIMITS INDICATED ON DRAWING M2. THE SOUNDINGS OF THE HARBOUR BOTTOM FOR THE POST-DREDGING SURVEY AND THE SURVEY AFTER INSTALLATION OF FILLS SHALL BE FOR THE FULL WIDTH OF THE CHANNEL AND SHALL EXTEND APPROXIMATELY 30 METRES PAST THE EAST AND WEST EXTENTS OF THE WORK. THE CONTRACTOR SHALL REMOVE, FROM THE CHANNEL, ANY DISPLACED MATERIAL FROM THE FILLING OPERATION.



KEY PLAN

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

LEGEND

417 PWGSC STRUCTURE IDENTIFICATION NUMBER

PROFESSIONAL ENGINEER
G.L.F. MacDonald
No. 1119
PRINCE EDWARD ISLAND

revisions		date
1	RE-ISSUED FOR TENDER	MAR.31 2013
0	ISSUED FOR TENDER	MAR.15 2013

project / projet

STRUCTURE 411 & 417 WHARF REPLACEMENT NORTH LAKE KINGS COUNTY, PE

drawing / dessin

SITE PLAN AND KEY PLAN

designed / conçu	R.KEEFE/S.O'BRIEN
date	NOVEMBER 2012
drawn / dessiné	J.BENNETT
date	NOVEMBER 2012
approved / approuvé	
date	
Tender / Soumission	
PWGSC Project Manager / Administrateur de projets TPSGC	
project number / no. du projet	R.076212.001
drawing no. / no. du dessin	M1 of 12

PWGSC B1 (2004)

0 10 20mm 40 60 80 100 120 140 160 180 200mm

E-DRM/GDD-E: 424980-v1