



CONCRETE NOTES:

1. ALL CONCRETE WORK TO BE IN ACCORDANCE WITH CAN/CSA A23.1, CAN/CSA A23.2 AND CAN/CSA A23.3 LATEST EDITIONS.
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% - 8%.
3. COVER TO REINFORCING = 75mm UNLESS OTHERWISE NOTED.
4. REINFORCING STEEL TO CSA G30.18 M92 Gr. 400W BLACK STEEL.
5. PROVIDE SELF PENETRATING SILANE SEALER FOR ALL CONCRETE SURFACES.
6. CAST IN PLACE CONCRETE SLAB TO HAVE A CONTROL JOINT OR A CONSTRUCTION JOINT AT MAXIMUM SPACING OF 3.5 METERS. CONTROL JOINTS AND CONSTRUCTION JOINTS TO BE EQUALLY SPACED ALONG LENGTH OF SLAB
7. REINFORCING LAP SPLICES TO BE CLASS B.

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 BOLT. SIZE AS INDICATED ON THE DRAWINGS.
3. GALVANIZE ALL HARDWARE TO CSA G164-M1981, MINIMUM ZINC COATING OF 610 g/m<sup>2</sup>, UNLESS OTHERWISE NOTED.

PILE NOTES:

HP-PILE SET CRITERIA:

1. PROVIDE RATED HAMMER ENERGY EQUAL TO 450 J/cm<sup>2</sup> OF STEEL CROSS-SECTIONAL AREA OF HP310x110. INSTALL PILES APPROXIMATELY 1000mm INTO ROCK.
2. REINFORCE PILE TIPS WITH PREFABRICATED PILE SHOES. PILE SHOES MUST BE REVIEWED AND APPROVED BY THE ENGINEER.

METAL FABRICATION NOTES:

1. STEEL MATERIALS SHALL CONFORM TO THE FOLLOWING SPECIFICATIONS:
  - a. ROLLED SECTION OR PLATE TO CAN/CSA G40.21M Gr.350W;
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.

GENERAL NOTES:

1. ACCESS TO THE WORK SITE IS ASSUMED TO BE BY APPROACHING FROM THE NORTH AND UTILIZING THE EXISTING BRIDGE STRUCTURE. IF THE CONTRACTOR INTENDS TO USE THE EXISTING BRIDGE STRUCTURE HE/SHE SHALL SUBMIT A REPORT AUTHORED BY A PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF PRINCE EDWARD ISLAND THAT IDENTIFIES THE WHEEL, AXLE AND TOTAL LOADS THAT CAN BE IMPOSED ON THE STRUCTURE. THE REPORT SHALL INCLUDE A SITE VISIT TO ASSESS THE EXISTING CONDITION OF THE STRUCTURE AS WELL AS A STRUCTURAL ANALYSIS TO VERIFY THE CAPACITY OF EACH ELEMENT OF THE STRUCTURE. PWGSC WILL NOT PAY FOR UPGRADES TO THE STRUCTURE TO ALLOW MATERIAL OR MACHINERY TO BE TRANSPORTED ACROSS IT.
2. EXISTING CONDITIONS BASED ON DRAWINGS PROVIDED BY PWGSC AND EXISTING GEOMETRY SURVEY CONDUCTED BY DEREK A. FRENCH PROFESSIONAL SERVICES INC., DATED NOV. 20, 2015.
3. ELEVATIONS ARE BASED ON HYDROGRAPHIC BENCH MARK NUMBER 91P9373 WITH A PUBLISHED CHART DATUM ELEVATION OF +3.274 METRES.
4. 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.
5. COORDINATES ARE REFERENCED TO PEI CONTROL MONUMENTS 2694 AND 2695, NAD 83(CSRS) DATUM WITH PUBLISHED GRID COORDINATES N:687070.214, E:444125.411 AND N:687841.734 E:443939.156 METERS, RESPECTIVELY.
6. SOUNDINGS BASED ON DRAWING PROVIDED BY PWGSC DATED NOV. 2, 2015. ALL SOUNDINGS ARE IN METERS AT LNT.
7. DO NOT SCALE FROM THE DRAWINGS.
8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.
9. GEOTECHNICAL INFORMATION FOR BOREHOLES B.H. 12, 13 AND 15 TAKEN FROM A SURVEY BY W.S. LANGLEY AND ASSOCIATION DATED JULY 1983. GEOTECHNICAL REPORT COMPLETED PRIOR TO CONSTRUCTION OF EXISTING BERLIN WALL STRUCTURE AND THEREFORE MAY NOT ACCURATELY DESCRIBE CURRENT SOIL PROFILES AND/OR CONDITIONS.
10. 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.
11. ANY STOCKPILING OF MATERIAL ON SITE WILL BE AT A LOCATION COORDINATED WITH THE DEPARTMENTAL REPRESENTATIVE AND THE LOCAL HARBOUR AUTHORITY.
12. 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.
13. 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 OUTSIDE OF THE CONTRACTED WORK AREA IN ANY WAY. THERE SHALL BE NO CONSTRUCTION BETWEEN APRIL 15 AND JULY 15, 2016.
14. WHARF LIVE LOAD DESIGN LOADING EQUAL TO 12 kPa. UNIFORMLY APPLIED.
15. CONTINUOUS GEOTEXTILE FABRIC TO BE PLACED BEHIND ALL NEW PRECAST CONCRETE WALL PANELS AND BETWEEN NEW ROCK FILL AND STRUCTURAL FILL. HOLES REQUIRED FOR THE ROD CONNECTIONS TO BE MINIMAL.
16. NEW CONCRETE SLAB TO BE CONSTRUCTED AFTER SETTLEMENT OF NEWLY COMPACTED SOILS HAS OCCURRED. DEPARTMENTAL REPRESENTATIVE TO DETERMINE WHEN SUFFICIENT SETTLEMENT HAS OCCURRED.
17. MAINTAIN CONSTRUCTION EQUIPMENT LOADS A MINIMUM OF 5m FROM THE FACE OF THE EXISTING WHARF UNTIL NEW WALL HAS BEEN CONSTRUCTED.
18. CONTRACTOR TO LOCATE EXACT POSITION OF ANY UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.

