

SCOPE OF WORK:

1. ESTABLISH TEMPORARY TRAFFIC AND PEDESTRIAN PROTECTION, INCLUDING TEMPORARY FLOATS TO ACCESS FLOATING DOCKS.
2. ESTABLISH TEMPORARY ENVIRONMENTAL PROTECTION INCLUDING DOUBLE WALLED SILT CURTAIN.
3. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR THEIR PORTION OF THE OVERALL SCOPE OF WORK.

TRANSITIONAL WHARF:

4. REMOVE EXISTING CONCRETE BOLLARDS AND DISPOSE OFF SITE.
5. REMOVE AND SALVAGE EXISTING ELECTRICAL PANEL, LIGHT STANDARD, AND RAMP CONNECTION SYSTEM. REMOVE AND TEMPORARILY RELOCATE FLOATING DOCK AND RAMP FROM NORTH END OF MARGINAL WHARF TO LOCATION DESIGNATED BY ENGINEER.
6. REMOVE AND SALVAGE CONCRETE PAVING STONES AS REQUIRED AT CONCRETE FOUNTAIN PATHWAYS.
7. EXCAVATE TO EXTENTS INDICATED AND DISPOSE OFF SITE.
8. REMOVE AND DISPOSE EXISTING 100mm DIA. STORM DRAIN PIPE.
9. REMOVE AND DISPOSE EXISTING TRANSITIONAL WHARF STEEL SHEET PILE WALL C/W STEEL TIEBACK CABLES LADDER AND STEEL PIPE CURB.
10. CONSTRUCT NEW STEEL SHEET PILE WALL C/W WALER, TIE-RODS, ANCHORS, AND CORNER BRACES.
11. PROVIDE EXTENSIONS FOR FOUNTAIN STORM DRAIN AND ARTESIAN WELL DRAIN.
12. REMOVE AND DISPOSE UPPER 100mm OF MARGINAL WHARF STEEL SHEET PILE WALL C/W STEEL CAP CHANNEL AND STEEL PIPE CURB TO LIMITS INDICATED.
13. BACKFILL AND COMPACT AS INDICATED.
14. PROVIDE STEEL CAP CHANNEL ON NEW STEEL SHEET PILE.
15. CONSTRUCT NEW TIMBER CURB C/W SPACER TIMBERS AND ANCHOR RODS ON STEEL CAP CHANNEL.
16. CONSTRUCT NEW CONCRETE PEDESTAL FOR NEW ELECTRICAL SPLICE BOX C/W THREE NEW BOLLARDS.
17. INSTALL SALVAGED DOCK CONNECTION SYSTEM, FLOATING DOCK, AND RAMP.
18. PROVIDE NEW LADDER.
19. TOUCH UP GRADE, COMPACT, AND INSTALL SALVAGED CONCRETE PAVING STONES AT CONCRETE FOUNTAIN PATHWAYS.
20. EXTEND CONCRETE WALLS AT CONCRETE FOUNTAIN VERTICALLY, AS REQUIRED, TO SUIT NEW GRADES.

MARGINAL WHARF:

21. TEMPORARILY RELOCATE RAMP AT SOUTH SIDE OF MARGINAL WHARF.
22. REMOVE AND SALVAGE EXISTING CONCRETE PARKING CURBS, CONCRETE PICNIC TABLE, TIMBER BENCH AND STEEL FLAG POLE.
23. REMOVE STEEL BOLLARDS NEAR FUEL PUMP AND DISPOSE OFF SITE.
24. REMOVE AND DISPOSE CONCRETE FLAG POLE BASE AND TWO ABANDONED STEEL LIGHT STANDARD BASES. MAKE GOOD REPAIRS TO CAP CHANNEL.
25. REMOVE AND SALVAGE CONCRETE PAVING STONES AT BUILDING ENTRANCE AS REQUIRED.
26. EXCAVATE TO EXTENTS INDICATED AND DISPOSE OFF SITE.
27. REMOVE AND DISPOSE THREE EXISTING MONITORING WELLS. FILL HOLES WITH BENTONITE.
28. REMOVE AND DISPOSE EXISTING BURIED AND/OR EXPOSED 200mm +/- CONCRETE SLAB WITHIN EXCAVATION LIMITS. SAWCUT LIMITS OF REMOVAL.
29. REMOVE ASPHALT TO EXTENTS INDICATED AND DISPOSE OFF SITE. SAWCUT LIMITS OF REMOVAL.
30. REMOVE 150mm CONCRETE CURB TO EXTENTS INDICATED AND DISPOSE OFF SITE.
31. TOUCH-UP PAINT AT STEEL PIPE CURB AT THREE FLOATING DOCK LOCATIONS.
32. REPAIR STEEL SHEET PILING VOID AT SOUTHWEST CORNER OF MARGINAL WHARF WITH HIGH STRENGTH CONCRETE.
33. PROVIDE NEW ANGLES TO EXTEND WALLS AND RAISE ELEVATION OF FUEL UTILIDOR LID FLUSH WITH CAP CHANNEL.
34. PROVIDE NEW CONCRETE FLAG POLE BASE.
35. PLUG EXISTING 150mm DIA. CSP STORM OUTLET PIPE AT CATCH BASIN WITHIN GRASS AREA.
36. CONSTRUCT NEW SOAKAWAY PIT BY THE FOLLOWING:
 - a. EXCAVATE 1200mm.
 - b. PROVIDE 1:1 SIDE SLOPES.
 - c. PROVIDE NEW 150mm DIA. PVC OUTLET FROM EXISTING CATCH BASIN WITHIN GRASS AREA TO NEW SOAKAWAY PIT.
 - d. PROVIDE 1100mm THICK PIT CONSISTING OF 19mm DIA. CLEAN STONE WRAPPED IN GEOTEXTILE. PROVIDE COMPACTIVE EFFORT.
 - e. PROVIDE 100mm THICK TOPSOIL C/W SEED ON TOP OF PIT.
 - f. PLACE SALVAGED CONCRETE PICNIC TABLE NEAR SOAKAWAY PIT.
37. CONSTRUCT NEW DECK SLAB BY THE FOLLOWING:
 - a. PROOF ROLL AND COMPACT BASE.
 - b. PROVIDE GRANULAR BASE C/W GEOTEXTILE WHERE INDICATED. GRANULAR BASE VARIES. REFER TO DRAWINGS FOR DETAILS.
 - c. WELD SHELF ANGLES C/W DOWELS TO STEEL SHEET PILING.
 - d. PLACE NEW REINFORCING STEEL.
 - e. POUR NEW 150mm CONCRETE SLAB.
 - f. SAWCUT CONTROL JOINTS AND SEAL ALL JOINTS.
38. PROVIDE STEEL GRATING STEPS AND LANDING AT THREE FLOATING DOCK LOCATIONS.
39. CONSTRUCT NEW 150mm CONCRETE CURB AND NEW SIDEWALK NEAR BUILDING.
40. RAISE CONCRETE WALLS AT PATHWAY AS REQUIRED.
41. PROVIDE THREE NEW BOLLARDS NEAR FUEL PUMP.
42. REPAIR SANITARY MANHOLE BARREL.
43. RESET SANITARY MANHOLE FRAME COVER TO SUIT FINISHED GRADE.
44. PROVIDE TOPSOIL AND SOD NEAR BUILDING AS INDICATED.
45. CONSTRUCT NEW ASPHALT AREAS BY THE FOLLOWING:
 - a. PROOF ROLL AND COMPACT BASE.
 - b. PROVIDE GRANULAR BASE C/W GEOTEXTILE WHERE INDICATED. GRANULAR BASE VARIES. REFER TO DRAWINGS FOR DETAILS.
 - c. PLACE 2-50mm LIFTS OF HL-4 ASPHALT.
46. PREPARE BASE AND INSTALL SALVAGED CONCRETE PAVING STONES TO SUIT FINISHED GRADE.
47. PROVIDE 100mm TOPSOIL AND SEED AT DISTURBED AREAS ALONG EDGE OF NEW PAVEMENT AND NEW CONCRETE CURB.
48. REINSTALL SALVAGED CONCRETE PARKING CURBS, STEEL FLAG POLE, AND TIMBER BENCH.
49. REMOVE TEMPORARY TRAFFIC AND PEDESTRIAN PROTECTION, AND TEMPORARY FLOATS.
50. AFTER REMOVING TEMPORARY ACCESS FLOATS, PRESSURE WASH TO REMOVE ZEBRA MUSSELS, AND DRY PRIOR TO TRANSPORTING BACK TO CLIENT.
51. RELOCATE RAMP AT SOUTH SIDE OF MARGINAL WHARF TO ORIGINAL LOCATION.
52. REMOVE TEMPORARY ENVIRONMENTAL PROTECTION.

CENTRE WHARF:

53. REMOVE EXISTING ANCHOR BOLTS AT FIVE LIGHT STANDARD LOCATIONS.
54. CONSTRUCT NEW BASES, INCLUDING ANCHOR BOLTS, TO RECEIVE NEW LIGHT STANDARDS.
55. PROVIDE NEW LIGHT STANDARDS.

GENERAL NOTES:

1. THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS ON SITE, PRIOR TO FABRICATION AND REPORT ANY DISCREPANCIES TO ENGINEER.
2. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO FABRICATION.
3. CONTRACTOR TO CONFIRM LOCATION OF ALL UTILITIES PRIOR TO START OF CONSTRUCTION.
4. PROVIDE TEMPORARY SUPPORT TO EXPOSED ELEC. CABLES DURING EXCAVATION.
5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING BUILDINGS, FIXTURES, EQUIPMENT AND SERVICES FROM DAMAGE DURING CONSTRUCTION OPERATIONS.
6. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR REMOVAL OF PIPING, CABLES, LIGHT STANDARDS, RECEPACLES, ETC.
7. MARGINAL WHARF IS TO REMAIN ACCESSIBLE TO FISHERS DURING FISHING SEASON BETWEEN APPROX. MAY 15th TO JULY 4th. NO DEMOLITION WORK IN THE MARGINAL WHARF AREA IS TO OCCUR DURING THE FISHING SEASON. TRANSITIONAL WHARF WORK TO BE COMPLETED DURING SPRING OR FALL FISHING SEASON WITH MINIMAL INTERFERENCE TO ACTIVITIES ON THE MARGINAL WHARF AND MAIN WHARF.
8. MARGINAL WHARF WORK TO BE COMPLETED BY AUGUST 31, 2016 TO ALLOW FISHERS ACCESS DURING THE FALL FISHING SEASON. THE FALL FISHING SEASON BEGINS SEPTEMBER 1, 2016.
9. WATER SYSTEM TO REMAIN OPERATIONAL DURING SUMMER MONTHS.
10. CONTRACTOR TO COORDINATE WITH S.C.H. TO MINIMIZE DISRUPTION OF POWER TO HARBOUR USERS. POWER TO MAIN WHARF TO REMAIN OPERATIONAL FOR MAJORITY OF PROJECT. COORDINATION REQUIRED.
11. FUEL PUMP AND PUMP-A-WAY TO REMAIN ACCESSIBLE TO H.A. AND OPERATIONAL FOR MAJORITY OF PROJECT.
12. CONTRACTOR TO ENSURE TEMPORARY ACCESS IS IN PLACE PRIOR TO CLOSING ACCESS TO MARGINAL WHARF.
13. NEW STEEL SHEET PILE INSTALLATION IS TO OCCUR BEFORE JULY 1, 2016 OR AFTER AUGUST 31, 2016.
14. CONTRACTOR TO COORDINATE WITH SMALL CRAFT HARBOURS AND OTHERS FOR ANY REQUIRED CLOSURE TO MAIN WHARF AND PROVIDE A MINIMUM OF TWO WEEKS NOTICE. MAIN WHARF CLOSURE TO BE MINIMIZED.
15. CONTRACTOR TO PROVIDE SMALL CRAFT HARBOUR WITH TWO WEEKS NOTICE PRIOR TO WORK ON FUEL UTILIDOR AND FUEL PUMP AREA. FUEL LINE DRAINAGE AND PUMP REMOVAL/REINSTALLATION DONE BY OTHERS. COORDINATION WITH SMALL CRAFT HARBOUR AND OTHERS REQUIRED.
16. ON SITE WORK CAN BEGIN ON MAY 30, 2016. ALL WORK TO BE COMPLETED BY OCTOBER 14, 2016.

STEEL NOTES:

1. ALL STRUCTURAL AND MISCELLANEOUS STEEL SHALL CONFORM TO C.S.A. G40.21-04 (R2009) GRADE 350W.
2. ALL PLATE STEEL SHALL CONFORM TO CSA G40.21-04 (R2009) GRADE 300W.
3. ALL WELDING SHALL CONFORM WITH CSA W59-03 (R2008) AND W471-09. WELDING ELECTRODES SHALL BE TYPE 49XX. ALL WELDS SHALL BE 6mm FILLET U.N.O.
4. CAN/CSA G40.20/G40.21, GENERAL REQUIREMENTS FOR ROLLED OR WELDED STRUCTURAL QUALITY STEEL/ STRUCTURAL QUALITY STEEL: CSA W59, WELDED STEEL CONSTRUCTION (METAL ARC WELDING), AASHTO/AWS D1.5M/D1.5 BRIDGE WELDING CODE.
5. ALL EXPOSED STEEL SHALL BE EITHER SHOP PRIMED AFTER FABRICATION, OR GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH CSA G164-M92 (R2003). DAMAGED AND FIELD DRILLED SURFACES SHALL BE TOUCHED UP WITH TWO COATS OF ZINC RICH PAINT, AS INDICATED.
6. ANCHORS FOR TIMBER CURB SHALL BE 19mm STAINLESS STEEL THREADED ROD.
7. STEEL SHEET PILES SHALL BE EZ95 BY ROLL FORM GROUP OR APPROVED EQUAL WITH MINIMUM SECTION MODULUS OF 1310 cm³/m. FASTENERS FOR STEEL SHEET PILES SHALL BE A307 BOLTS.
8. ENSURE CONTACT BETWEEN U/S OF C380X50 STEEL CAP CHANNEL AND TOP OF STEEL SHEET PILING TO FACILITATE WELDING. PROVIDE SPECIFIED LENGTH OF WELD TO ALL CONNECTION SURFACE.
9. THREADBAR SHALL BE DYWIDAG TIE ROD SYSTEM GRADE 75 AND 35MM DIA. WITH DOUBLE CORROSION PROTECTION, IN ACCORDANCE WITH ASTM A-615.

CONCRETE NOTES:

1. MAKE GOOD ALL REPAIRS TO CONCRETE CURBS AND CONCRETE PAVING STONES, WITHIN LIMITS OF EXCAVATION.
2. CONCRETE SHALL HAVE A MINIMUM ULTIMATE COMPRESSIVE STRENGTH OF 30 MPa AT 28 DAYS WITH 7% ± 1.5% AIR ENTRAINMENT. NORMAL COARSE AGGREGATE SIZE TO BE 20mm.
3. REINFORCING BARS SHALL BE DEFORMED BARS GRADE 400.
4. ANCHOR BOLTS SHALL BE ASTM A307.
5. CLEAR CONCRETE COVER TO REINFORCING STEEL SHALL BE:
 - a) CONCRETE POURED AGAINST EARTH 75mm±
 - b) CONCRETE EXPOSED TO EARTH OR WEATHER 50mm
6. CONCRETE SLAB SHALL BE LIGHT BROOM FINISH IN THE TRANSVERSE DIRECTION.
7. GROUT FOR LIGHT STANDARDS SHALL BE 'SIKA' M-BED STANDARD OR APPROVED EQUAL.
8. CONCRETE FOR SHEET PILING WALL VOID REPAIR SHALL BE W.R. MEADOWS 'SPEED-CRETE' BLUE LINE' HIGH STRENGTH CONCRETE.
9. EXPANSION JOINTS IN SLAB SHALL BE 12mm ASPHALT IMPREGNATED FIBREBOARD C/W SIKAFLEX 2C NS SEALANT.
10. CONTROL JOINT FILLER SHALL BE SILICA SAND C/W BASF MASTERSEAL SL1 SELF LEVELLING POLYURETHANE SEALANT.
11. LAP LENGTHS FOR REINFORCING BARS SHALL BE CLASS 'B' U.N.O.
12. BAR HOOKS, WHERE REQUIRED, SHALL BE MINIMUM LENGTH AND STIRRUPS SHALL HAVE MINIMUM HOOKS AS PER REINFORCING STEEL INSTITUTE OF CANADA (RSIC) U.N.O.
13. SAWCUTS INTO CONCRETE SHALL BE 3.2mm WIDE AND 38-50mm DEEP OR TO FIRST LAYER OF REINFORCING STEEL, WHICHEVER IS LESS.

ASPHALT NOTES:

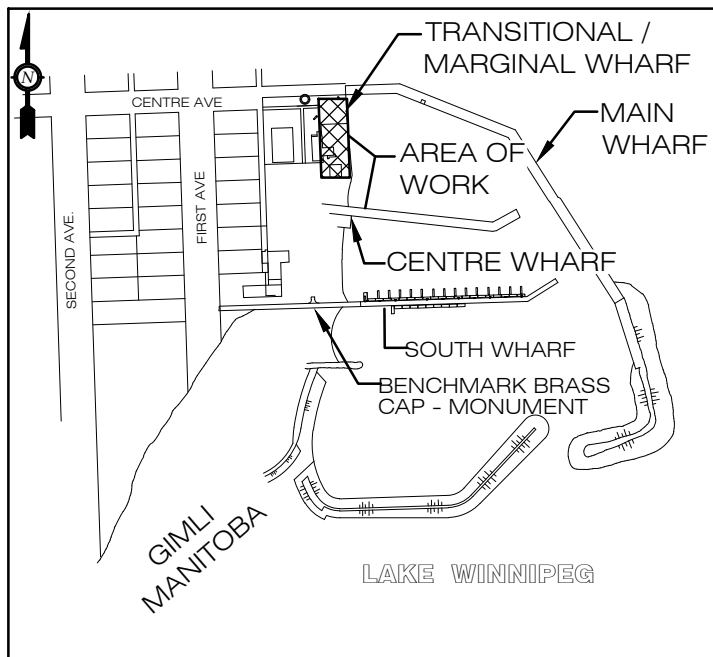
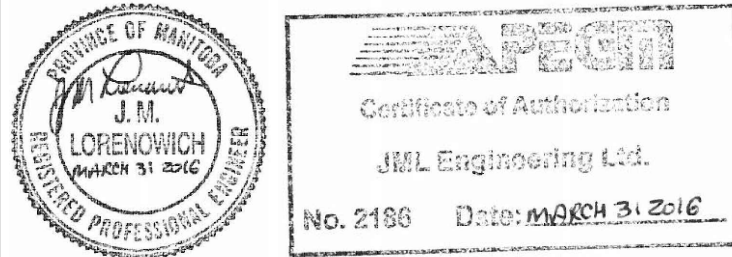
1. ASPHALT TO MEET HOT LAID HL-4 REQUIREMENTS, MAXIMUM AGGREGATE SIZE 19mm.
2. BASE MATERIAL SHALL BE LIMESTONE TYPE 'A'.
3. SUBBASE MATERIAL SHALL BE LIMESTONE TYPE 'B'.
4. NEW MATERIAL BEHIND NEW STEEL SHEET PILE WALL SHALL BE BACKFILL.
5. SOAKAWAY PIT MATERIAL SHALL BE CLEAN STONE.
6. GEOTEXTILE SHALL BE AMOCO NON-WOVEN FILTER FABRIC OR APPROVED EQUAL CONFORMING TO APL-161, CLASS II.

TIMBER NOTES:

1. ALL CURB TIMBERS SHALL BE PRESSURE TREATED WITH CHROMATED COPPER ARSENATE (CCA) IN STRICT ACCORDANCE WITH CSA 80. ALL TIMBERS TO BE CUT TO LENGTH BEFORE TREATMENT.
2. ALL TIMBERS SHALL BE GROUP A DOUGLAS FIR, ROUGH SAWN, NO. 2 GRADE OR BETTER AS PER CAN/CSA-2809.
3. ALL EXPOSED THRU-BOLTS, NUTS AND WASHERS SHALL BE ASTM A307, 19mm DIAMETER, GALVANIZED UNLESS NOTED OTHERWISE.

DESIGN LOADS:

1. LIVE LOAD RATING OF NEW DECK =19 kPa.



KEY PLAN

N.T.S.

1	ISSUED FOR CONSTRUCTION	2016/03/31
C	ISSUED FOR 99% CLIENT REVIEW	2016/03/11
B	ISSUED FOR 66% CLIENT REVIEW	2016/02/19
A	ISSUED FOR 33% CLIENT REVIEW	2016/01/22
revision	description	date

Do not scale drawings.
Verify all dimensions and conditions on site and immediately notify the engineer of all discrepancies.



- A Detail No. No. du détail
- B drawing no. – where detail required dessin no. – où détail exigé
- C drawing no. – where detailed dessin no. – où détaillé

project title
titre du projet
GIMLI MANITOBA

MARGINAL AND TRANSITIONAL WHARF

WHARF REHABILITATION

drawing title
titre du dessin

GENERAL NOTES AND SCOPE OF WORK

drawn by
dessiné par
BRYAN ANDERSON

designed by
conc par
MICHAEL EDMONDS

approved by
approuvé par
JOHN M. LORENOWICH

tender
soumission
SMALL CRAFT HARBOURS

project manager
administrateur
de projets

project date
date du projet
2016-03-31

project no.
no. du projet
721356

drawing no.
dessiné no.
2015064 G-8 of 8

BENCHMARK

BRASS CAP - MONUMENT 014900 AT THE SOUTH WHARF
LOCATED ON THE SOUTHERN SIDE OF CONCRETE PATH
ELEV. 219.175, NORTHING 5610657.031, EASTING 642572.531