

Part 1 General**1.1 RELATED REQUIREMENTS**

- .1 Section 03 30 00 – Cast-in-Place Concrete

1.2 REFERENCE STANDARDS

- .1 CSA Group (CSA)
 - .1 CAN/CSA-Z809-[08], Sustainable Forest Management.
- .2 Forest Stewardship Council (FSC)
 - .1 FSC-STD-01-001-[2004], FSC Principle and Criteria for Forest Stewardship.
- .3 Sustainable Forestry Initiative (SFI)
 - .1 SFI-[2010-2014] Standard.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Provide manufacturer's instructions, printed product literature and data sheets for furniture and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit shop drawings indicating dimensions, quantity, sizes, assembly, anchorage/hardware and installation details for each furnishing specified.
- .4 Samples:
 - .1 Submit colour chip sample for review and approval prior to fabrication.

1.4 CLOSEOUT SUBMITTALS

- .1 Provide maintenance data for care and cleaning of site furnishings for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 QUALITY ASSURANCE

- .1 Sustainable Standards Certification:
 - .1 Certified Wood: Provide listing of wood products and materials used in accordance with CAN/CSA-Z809 or FSC or SFI.

1.6 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with manufacturer's written instructions.

- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials in dry location and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect furnishings from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.
- .4 Packaging Waste Management: remove for reuse and recycling as specified in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.

Part 2 Products**2.1 CUSTOM WOOD BENCH**

- .1 Seat: Constructed from natural hardwood logs. Minimum 600mm diameter, plane log in half lengthwise, 1.8m length.
- .2 Supports: Constructed from natural hardwood logs. Minimum 350mm diameter, plane ¼ of log lengthwise, 0.8m length, 2 supports per bench.
- .3 Anchor: 15M rebar minimum 1.45m in length.
- .4 Preparation: Prepare logs by removing all externally loose debris.
- .5 Installation: Notch underside of seat at support log locations. Drill through centre of support logs when laid horizontally, and midway through bottom of seat log for installation of anchoring rebar. Anchor rebar minimum 1.0m into ground. Ensure seat sits level, and is anchored and firmly supported with no movement.
- .6 Contractor to select logs for bench and allow for review and approval by PCA Representative prior to fabrication, either at the source or on site.
- .7 Contractor to stake out locations for seating nodes on site for review and approval by PCA Representative prior to installation.

2.2 TRASH CONTAINER AND RECYCLE CONTAINERS

- .1 Manufacturer: Molok North America Ltd.
- .2 Product: Molok Classic supplied by PCA
- .3 Model: M-1300 (Type 1) and M-3000 (Type 2)
- .4 Size: 1300 Litres and 3000 Litres
- .5 Installation: Complete System Installation as per manufacturer's instructions, including all anchoring hardware and backfill materials.
- .6 Contractor to provide product data, and shop drawings for review and approval by PCA Representative prior to fabrication.

- .7 Locate (2) each of the M-1300 bins at Parking Lots #1 and 2. Locate (2) M-3000 bins at Parking Lot #3 where indicated on plans. Orient lid openings towards direction of path of travel.

2.3 REMOVABLE BOLLARDS

- .1 Manufacturer: Maglin Site Furniture or approved equal
- .2 Product: Removable lockable bollard
- .3 Model: MBO-0650-00013 with Type 4 removable direct burial base
- .4 Size: 197mm diameter, 841 mm height.
- .5 Material: H.S. steel tube
- .6 Colour/Finish: Custom Parks Canada Heritage Green (Pantone 553 or RAL 6028) powdercoat finish
- .7 Accessories: Complete with locking mechanism and key, and white reflective tape (2 strips)
- .8 Installation: As per manufacturer's instructions.
- .9 Location: 0.5m offset from edge of boardwalks on either end, and where indicated on plans.
- .10 Contractor to provide product data, colour chip sample, and shop drawings for site furniture and concrete footing design for review and approval by PCA Representative prior to fabrication.

2.4 OFFSET P-GATES (PAIR)

- .1 Manufacturer: Maglin Site Furniture or approved equal
- .2 Product: Removable bollard swing gate
- .3 Model: MMP-0650-00004 with Type 4 removable direct burial base
- .4 Size: 60" arm length
- .5 Material: H.S. Steel tube
- .6 Colour/Finish: Custom Parks Canada Heritage Green (Pantone 553 or RAL 6028) powdercoat finish
- .7 Accessories: Complete with locking mechanism and key, and white reflective tape (2 strips)
- .8 Installation: As per manufacturer's instructions.
- .9 Contractor to provide product data, colour chip sample, and shop drawings for site furniture and concrete footing design for review and approval by PCA Representative prior to fabrication.

2.5 FARM CHAIN CLOSURE

- .1 Galvanized steel chain plate staple, 50x50mm x 6mm thick square plate. Install as per manufacturer's installation instructions. All hardware to be galvanized steel and vandal resistant.
- .2 Galvanized bollard security chain with padlock and key. Locking mechanism hardware to be galvanized.
- .3 Gate posts for chain closures: 2.6m long and 200x200 mm minimum square, rough sawn Ontario white cedar, No.1 grade, sound, seasoned wood with ends cut square or on a slant as indicated.
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Posts to be treated in accordance with CAN/CSA O80 Series.

2.6 FARM GATES

- .1 Manufacturer: TSC Country or approved equal
- .2 Product: 20' Diamond 7 Bar 57" Gate with wheel
- .3 Size: 6m (20') wide x 1.5m ht.
- .4 Material: H.S. Steel
- .5 Colour: Custom Parks Canada Heritage Green (Pantone 553 or RAL 6028) powdercoat finish
- .6 Accessories: Complete with wheel and diamond bar chain latch with padlock and key. Locking mechanism hardware to be galvanized.
- .7 Install using heavy duty GHA galvanized hardware as per manufacturer's instructions.
- .8 Contractor to provide product data, colour chip sample, and shop drawings for review and approval by PCA Representative prior to fabrication.
- .9 Gate posts for farm gates: 3.0m long and 200x200 mm minimum square, rough sawn Ontario white cedar, No.1 grade, sound, seasoned wood with ends cut square.
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Posts to be treated in accordance with CAN/CSA O80 Series.

2.7 DOUBLE FARM GATES

- .1 Manufacturer: TSC Country or approved equal
- .2 Product: (2) 18' Diamond Bar Gate with wheel
- .3 Size: 5.49m (18') wide x 1.2m ht.
- .4 Material: H.S. Steel

- .5 Colour: Custom Parks Canada Heritage Green (Pantone 553 or RAL 6028) powdercoat finish
- .6 Accessories: Complete with one wheel for each gate, and welded diamond bar chain latch with padlock and key. Locking mechanism hardware to be galvanized.
- .7 Install using heavy duty GHA galvanized hardware as per manufacturer's instructions.
- .8 Contractor to provide product data, colour chip sample, and shop drawings for review and approval by PCA Representative prior to fabrication.
- .9 Gate posts for double farm gates: 2.7m long and 200x200 mm minimum square, rough sawn Ontario white cedar, No.1 grade, sound, seasoned wood with ends cut square or on a slant as indicated.
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Posts to be treated in accordance with CAN/CSA O80 Series.

2.8 WOOD GUARDRAIL

- .1 Wood components:
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Existing knots trimmed flush with surface.
 - .4 Posts to be treated in accordance with CAN/CSA O80 Series.
- .2 Posts: 100x100mm square rough sawn Ontario white cedar, No.1 grade, lengths as indicated.
- .3 Boards: 100x50mm and 50x50mm rough sawn Ontario white cedar, No.1 grade, lengths as indicated.
- .4 Guardrail Mesh: black vinyl coated wire, 11 gauge, 2x4" mesh, supplied by Louis E. Page Inc. or approved equal.
- .5 All hardware to be galvanized steel and vandal resistant.
- .6 Post Base: 100x100mm square post base, Simpson StrongTie E-Z Base, galvanized post base, powdercoated black, with Strong-Drive SDS heavy duty anchor bolts as indicated, or approved equal.

2.9 WOOD POSTS FOR SIGNAGE

- .1 Farm Access Signage Posts: 2.6m long and 150mm dia. minimum, sound, seasoned wood, peeled Ontario white cedar with ends cut on a slant as indicated.
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Existing knots trimmed flush with surface.

- .4 Posts to be treated in accordance with CAN/CSA O80 Series.
- .2 Directional Signage Posts: 3.7m long and 150x150mm square rough sawn Ontario white cedar, No.1 grade.
 - .1 CAN/CSA-Z809 or FSC or SFI certified.
 - .2 Straight, free from splits, shakes and excessive knots.
 - .3 Posts to be treated in accordance with CAN/CSA O80 Series.

2.10 BIKE RACKS

- .1 Manufacturer: Landscape Forms Inc. or approved equal
- .2 Model: Loop bike rack
- .3 Size: 36" length, 31" height.
- .4 Material: Aluminum
- .5 Colour/Finish: Low Sheen Architectural powdercoat finish in Nutmeg
- .6 Installation: Surface mounted onto concrete pad as per manufacturer's instructions.
- .7 Location: Minimum 0.8m offset from walls or edges as per Landscape Forms Spacing Guidelines document, and where indicated on plans.
- .8 Contractor to provide product data, colour chip sample, and shop drawings for site furniture and concrete slab design for review and approval by PCA Representative prior to fabrication.

2.11 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for exterior site furnishing installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of PCA Representative.
 - .2 Inform PCA Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied and after receipt of written approval to proceed from PCA Representative.

2.12 PREPARATION

- .1 Locate and protect utility lines.
- .2 Notify and acquire written acknowledgement from utility authorities before beginning installation Work.

2.13 INSTALLATION

- .1 Assemble furnishings in accordance with manufacturer's written recommendations.

- .2 Install furnishings true, plumb, anchored and firmly supported, as directed by PCA Representative.
- .3 Touch-up damaged finishes to approval of PCA Representative.

2.14 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 00 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 00 - Cleaning.
- .3 Waste Management: separate waste materials for recycling and reuse in accordance with Section 01 74 21 – Construction/Demolition Waste Management and Disposal.
 - .1 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

2.15 PROTECTION

- .1 Protect installed products and components from damage during construction.
- .2 Repair damage to adjacent materials caused by site furnishings installation.

END OF SECTION