APPENDIX H
PARKS AND TRAIL SIGN STANDARDS

## **BOND**creative

# City of St. Albert Parks and Trails Sign Specifications

June 24, 2016

#### Revised

- October 26, 2016
- February 22, 2017
- February 23, 2017
- March 3, 2017
- December 15, 2017

#### Sign Schedule

Sign No.	Qty.	Description	Remarks	Drawing No.
-	-	Sign Schedule	-	B.01
-	-	Construction Keynotes	-	B.02
-	-	Park Sign Foundation Standards	Revised February 23, 2017	S-001-S-004
ID-1	-	Primary Park Identification	-	B.03
ID-2	-	Secondary Park Identification	-	B.04
ID-3	-	Tertiary Park Identification	-	B.05
ID-4	-	Wall Mounted Facility Identification -		B.06
D-1	-	Pedestrian Directional	-	B.07
D-2	-	Trail Marker -		B.08
IN-1	-	Primary Information/Orientation Hub	-	B.09
IN-2	-	Secondary Information/Orientation Hub	-	B.10
IN-3	-	Tertiary Information/Orientation Hub -		B.11
IN-4	-	Facility Hours Information	-	B.12
IN-5	-	Freestanding Information	-	B.13
R-1	-	Regulatory Signs	-	B.13
T-1	-	Temporary Information - Small	-	B.14
T-2	-	Temporary Information - Large	-	B.15
INT-1	-	Primary Interpretive	-	B.16

CLIENT

#### City of St. Albert

ROJECT

# PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO. 15-0869.04

DRAWING

Sign Schedule

SCALE

As Shown

DATE

June 24, 2016

DRAWN CHECKED
SK/CP -

COMMENTS

-

REVISIONS

February 22, 2017

February 23, 2017

## **BOND**creative

BOND Creative Inc Suite 208 5800 2nd Street SW Calgary Alberta T2H 0H2 Tel 403 509 3340 Fax 403 509 3345

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CHEET NO

**B.01** 

#### **CONSTRUCTION KEYNOTES**

- Square, pressure treated rough spruce (brown), ACQ treated (no stain or paint). Welded square tube aluminum frame (Thickness TBD by Sign Supplier - minimum 2" thickness). Frame to match shape of adjoining sign face. Internal braces and structure as required. All corners welded and finished smooth. All exposed edges and faces to be painted black. Mechanically fastened to wood posts with non-corroding fasteners.
- Aluminum panel mechanically fastened (fasteners to facilitate with removal or replacement of panel if required) tamper proof, non-corroding screws to wooden post. Panel to be stood off 1/4" away from surface. Rust resistant threaded anchors to be used and inset in wood post. No sharp edges or corners. Screw heads and all exposed sides and edges of panel to be painted
- Fabricated aluminum cabinet with internal square tube frame. Ensure frame and external sheeting are robust enough to resist warping. All welds and edges to be finished smooth. Fastener heads and all exposed sides and edges of panel to be painted to match.
- Fabricated aluminum sign face. All welds and edges to be finished smooth. Mounted to cabinet frame with no visible fasteners.
- Vinyl graphics and text. Applied first surface.
- Custom pole mounting 'L' bracket securely fastened to spruce pole and concrete foundation. All corners welded and finished smooth. Non-corroding mounting hardware (stainless steel bolts with nylon washers). Engineering mounting details TBD by sign supplier.
- BOND Creative Inc. not responsible for concrete foundations they are the sole responsibility of sign contractor. Sign contractor responsibilities:
  - Design of foundation by sign contractor, refer to drawings S-001-S-004
  - Stamped engineered drawings by sign contractor
  - Supply physical bolt tempate by sign contractor
  - Foundations by others
- OPTION A 3/4" deep vitreous enamel pan, mounted to panel. No front face visible fasteners (final artwork TBD).

OPTION B - Scratch and UV resistant 3/8" clear carrier with digital print graphics on second surface.

OPTION C - High pressure laminate digital map. 1/2" thickness. Mounting hardware is concealed. Apply with threaded inserts. Edges are smooth, polished black.

- Aluminum sign face, mechanically fastened to internal frame with non-corroding, tamper proof fasteners. No sharp edges or corners, sign face to be void of buckling, warping or oil canning. Fastener heads and all exposed sides and edges of panel to be painted to match.
- Aluminum sign face, mechanically fastened to internal frame. No visible fasteners, sign face to be void of buckling, warping or oil canning. All exposed sides painted navy blue, dark green and lime green.
- Horizontal grain brushed aluminum capping with clear coat.
- Aluminum sign blade mechanically fastened securely to custom sign blade clamp. No sharp edges or corners, sign face to be void of buckling, warping or oil canning.
- Horizontal grain brushed aluminum custom sign blade clamp securely fastened to aluminum pole. All corners welded and finished smooth with clear coat.

- Square 4" aluminum post
- Inlaid aluminum post topper securely fastened to spruce. No visible fasteners. Topper to be offset 1/4" off from surface. All corners welded and finished smooth
- Aluminum modular sign panel mechanically fastened (fasteners to facilitate with removal or replacement of panel if required) with tamper proof non-corroding, fasteners to frame. Ensure all fasteners are not visible. No sharp edges or corners, sign face to be void of buckling, warping or oil canning. Fastener heads and all exposed sides and edges of panel to be painted to match.
- Standard mounting straps and support arms as required (fabricated from non-corroding material). Mechanical fasteners through face of sign and painted to match sign and positioned to avoid graphics.
- Standard pole mounting sign system. Base plate mounted securely to surface with appropriate, non-corroding mechanical fasteners, leveling spacers, breakaway collars and standard mounting requirements (mounting details TBD by sign supplier).
- Standard aluminum sign panel. No sharp edges or corners. 20
- Exterior grade glulam laminated timber to match pressure treated rough spruce posts used throughout sign family.
- Wood structure as fabricated by the City of St. Albert. All existing wood structures to be re-painted.
- Standard galvanized steel, U-channel post provided by the City of St. Albert Public Works and are driven directly into the ground with no concrete foundation. Non-corroding
- First surface direct print on navy blue acrylic. Flush mounted to surface with tape and adhesive as required.
- Non-glare lexan display window, painted second surface border, 1/32" spacer (open on both ends), second surface painted acrylic common back to match dark blue. Must accomodate 8 1/2"x14" (legal paper size) insert.
- Masked and painted graphics
- Map fastened with non-corrosive fasteners 27
- Digitally printed graphics

#### **Sign Finishes**

- A Powdercoat. Satin finish. Ensure an even smooth texture to finished product. All exposed surfaces. No penetrations to substrate for suspension unless already existing or
- B Silk screened graphics. Ensure maximum opacity to accommodate dark backgrounds.
- Painted surfaces. Automotive grade paint with a satin finish. All surfaces to be smooth and free of blemishes. Paint all exposed surfaces.

#### **Sign Colours**

Opaque White 3M 7725-10



Black - PMS Black C Opaque Vinyl: 3M 7725-12



Dark Blue - PMS 539 Matthews Paint: MP35286 Satin Finish



Matthews Paint: MP00488 Satin Finish



Dark Green - PMS 350 Matthews Paint: MP15953 Satin Finish



Brown - PMS 477



Silver - PMS 877

## **Interpretive Sign Colours**



**Light Blue - PMS 292** 



Orange - PMS 716



Fuschia - PMS 233

#### **Regulatory Colours**



Warning Red - PMS 1797



Caution Yellow - PMS 124

#### **Bracket Colour**



**RAL 6020 Chrome Green Powder Coated** 

#### **General Notes**

No visible seams. All edges and seams welded and finished smooth.

Visible fasteners, brackets, support structures, and adhesives to be minimized, made of non-corroding elements, painted to match and countersunk where possible.

All surfaces to be flat and even - no deformation or buckling of any sheet materials or panels.

Structural and attachment details TBD by sign supplier.

All painted or powder coated surfaces to have a satin finish

Automotive grade paint to be used in all masked and painted applications.

All mechanical fasteners to be non-corrosive/rust resistant.

ENGINEER STAMPED DRAWINGS REQUIRED PROJECT

CLIENT

#### **PARKS AND TRAILS** SIGN SPECIFICATIONS

City of St. Albert

PROJECT NO.

15-0869.04

DRAWING

**Construction Drawings** 

SCALE

As Shown

DATE

June 24, 2016

DRAWN SK/CP CHECKED

COMMENTS

REVISIONS

October 26, 2016 November 2, 2016

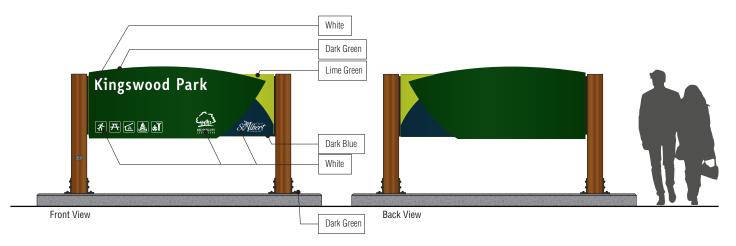
February 22, 2017

#### **BOND**creative

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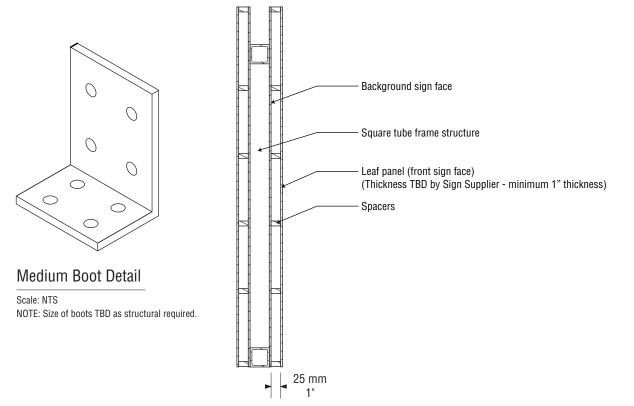
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SHEET NO.



#### ID-1 Primary Park Identification • Colour Elevation

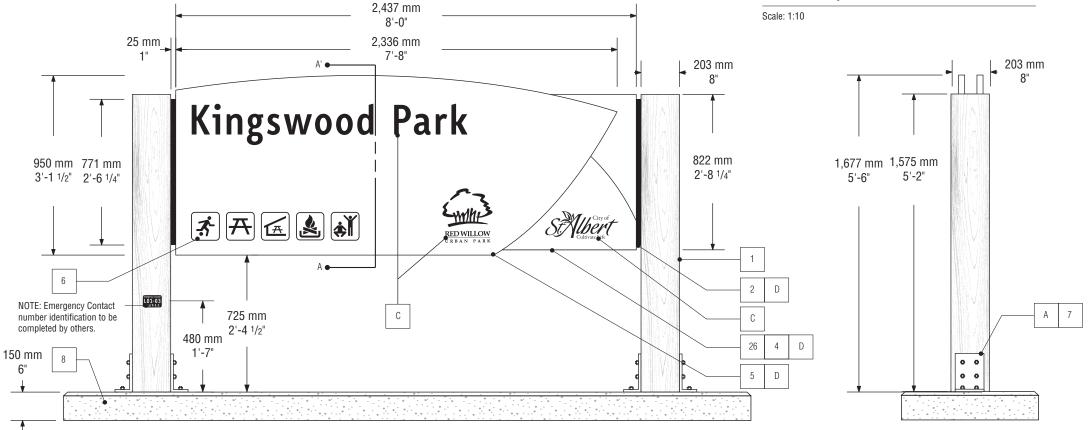
Scale: 1:50



#### ID-1 Primary Park Identification • Section A

ID-1 Primary Park Identification • Side View

Scale: 1:20



#### ID-1 Primary Park Identification • Front View

Scale: 1:20

NOTE: Concrete to be 6" Above grade for snow removal and maintenance.

#### NOTES:

Verify all dimensions, elevations, and datum; report any errors and/ or discrepancies to BOND Creative Inc. prior to construction.

All drawings remain the property of the developer. Removal of existing sign required.

This design and drawing may not be reproduced without permission of the developer.

Do not scale drawings.

This drawing supersedes previous issues.

CLIE

#### City of St. Albert

PROJEC

## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

ID-1 Primary Park Identification

SCALE

As Shown

DATE

June 24, 2016

DRAWN CHECKED
SK/CP -

COMMENTS

-

REVISIONS

October 26, 2016

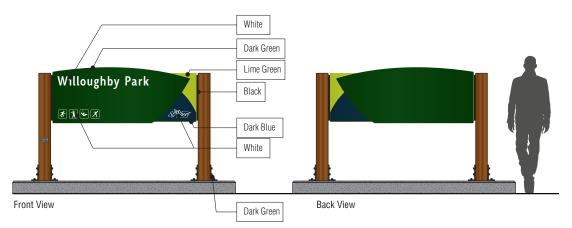
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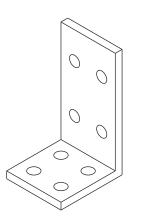
SHEET NO.

**B.03** 



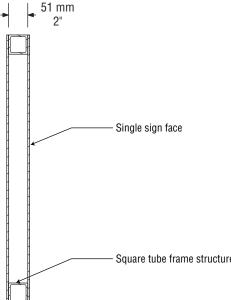
ID-2 Secondary Park Identification • Colour Elevation

Scale: 1:50



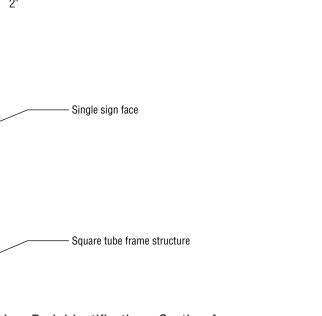
#### Small Boot Detail

Scale: NTS NOTE: Size of boots TBD as structural required.



#### ID-2 Secondary Park Identification • Section A

Scale: 1:10



REVISIONS

October 26, 2016

City of St. Albert

**PARKS AND TRAILS** 

PROJECT NO.

DRAWING

SCALE As Shown

DATE

SK/CP COMMENTS

June 24, 2016

15-0869.04

SIGN SPECIFICATIONS

ID-2 Secondary Park Identification

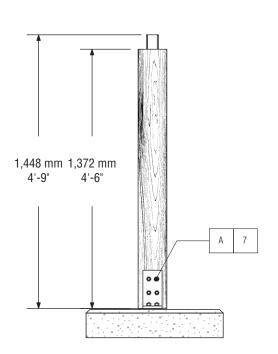
CHECKED

#### 25 mm 1,829 mm 6'-0" 152 mm 6" Willoughby Park 617 mm 713 mm 566 mm 2'-0 1/4" 2'-4" 1'-10 1/4" \* 1 6 7 Stylber 1 6 NOTE: Emergency Contact number identification to be completed by others. 742 mm 2'-5 1/4" 480 mm 26 4

#### ID-2 Secondary Park Identification • Front View

Scale: 1:20

NOTE: Concrete to be 6" Above grade for snow removal and maintenance.



ID-2 Secondary Park Identification • Side View

Scale: 1:20

#### NOTES:

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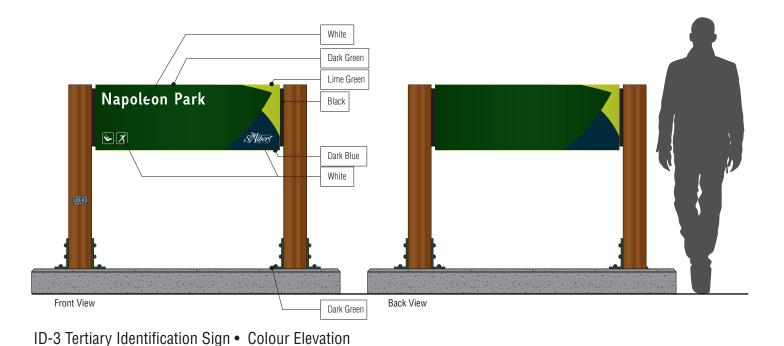
Do not scale drawings.

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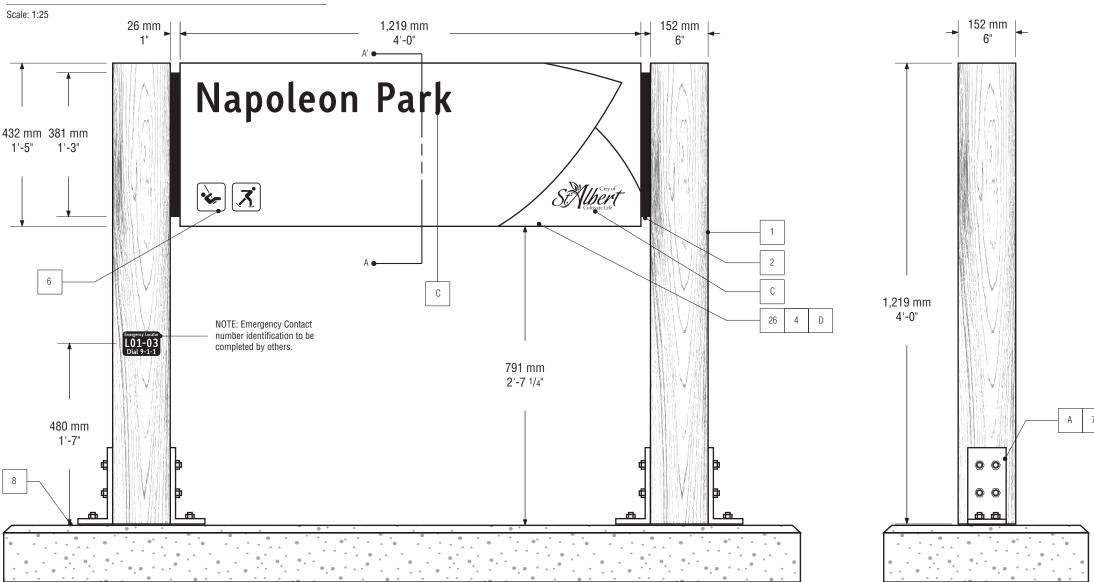
# 51 mm 2" Single sign face Square tube frame structure

ID-3 Tertiary Park Identification • Section A

Scale: 1:10

#### Small Boot Detail

Scale: NTS NOTE: Size of boots TBD as structural required.



#### ID-3 Tertiary Park Identification • Front View

Scale: 1:10

NOTE: Concrete to be 6" Above grade for snow removal and maintenance.

ID-3 Tertiary Park Identification • Side View

Scale: 1:10

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#### City of St. Albert

PROJECT

## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

ID-3 Tertiary Park Identification

SCALE

As Shown

DATE

June 24, 2016

DRAWN CHECKED
SK/CP -

COMMENTS

-

REVISIONS

October 26, 2016

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SHEET NO.

**B.05** 

## **PARKS AND TRAILS**

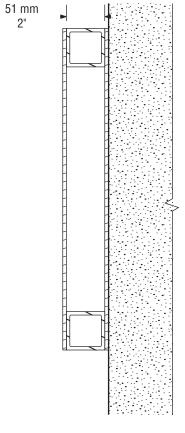
SK/CP

COMMENTS

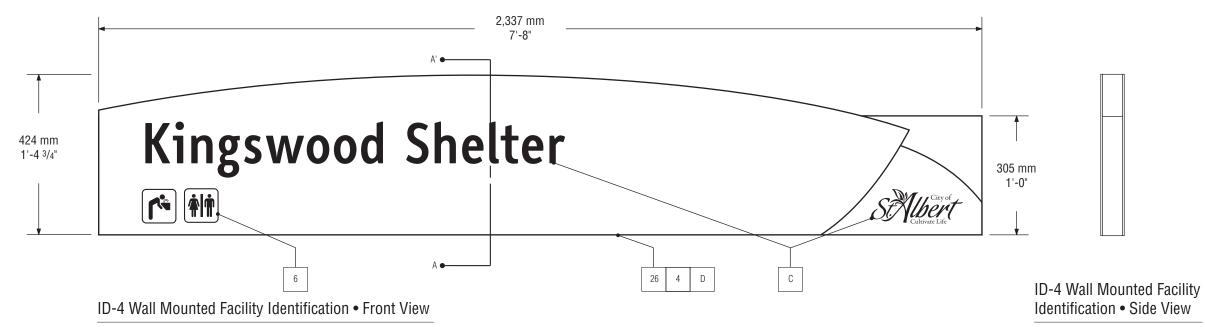
REVISIONS

**SIGN SPECIFICATIONS** PROJECT NO. 15-0869.04 DRAWING ID-4 Wall Mounted Facility Identification SCALE As Shown June 24, 2016

October 26, 2016



#### ID-4 Wall Mounted Facility Identification • Section A



Height and location to vary as per site conditions

#### NOTES:

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Scale: 1:10

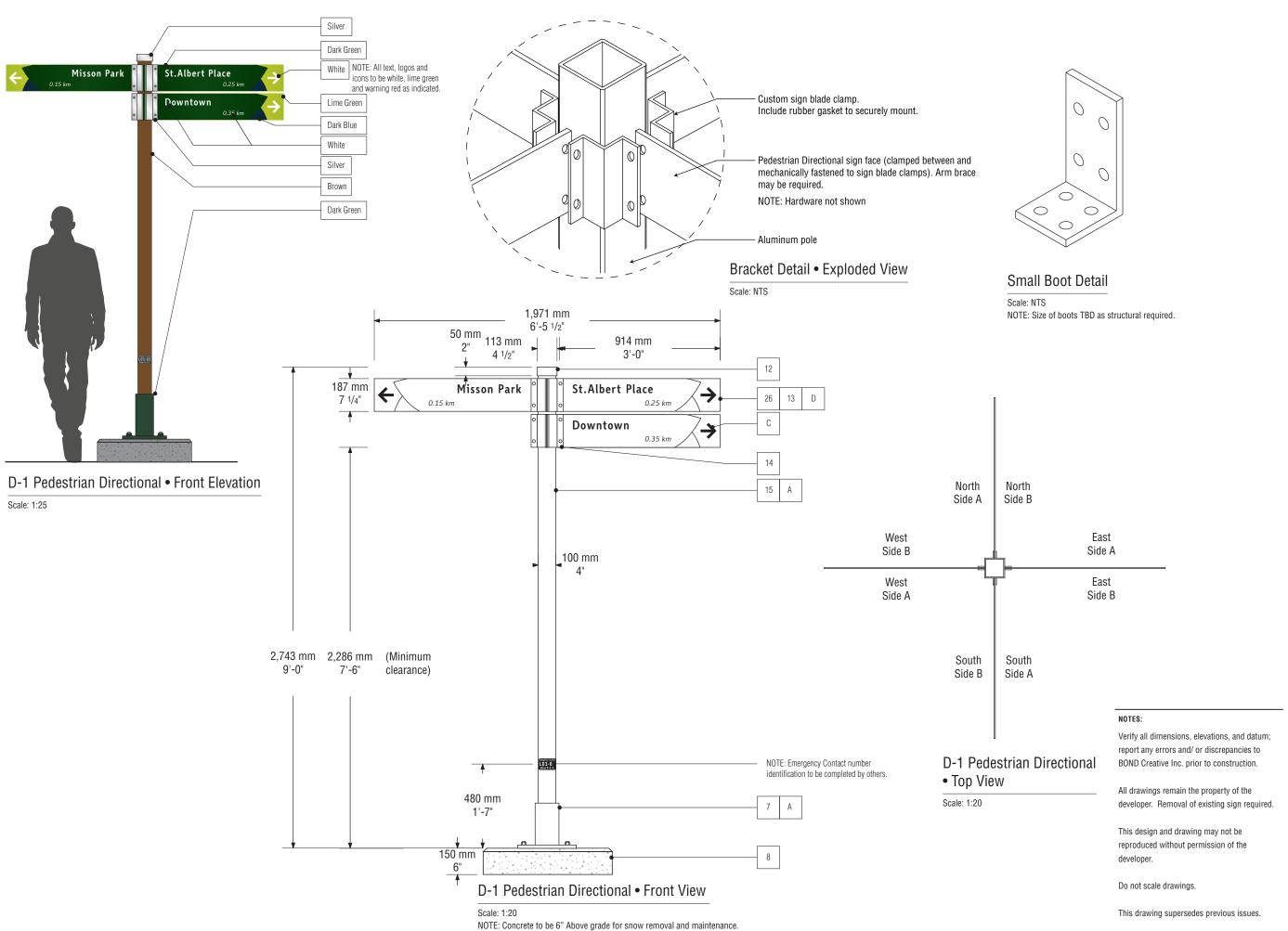
Scale: 1:25

Lime Green

Dark Green

White Dark Blue Kingswood Shelter

ID-4 Wall Mounted Facility Identification • Colour Elevation



CLIENT

#### City of St. Albert

PROJEC

## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

D-1 Pedestrian Directional

SCALE

DATE

As Shown

June 24, 2016

DRAWN CHECKED
SK/CP -

COMMENTS

-

REVISIONS

October 26, 2016

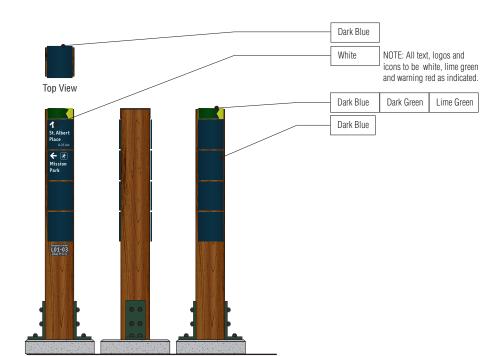
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SHEET NO.

**B.07** 



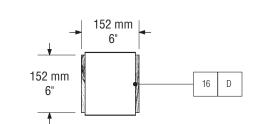
Back View

D-2 Trail Marker • Front/Side/Top Elevation

Side View

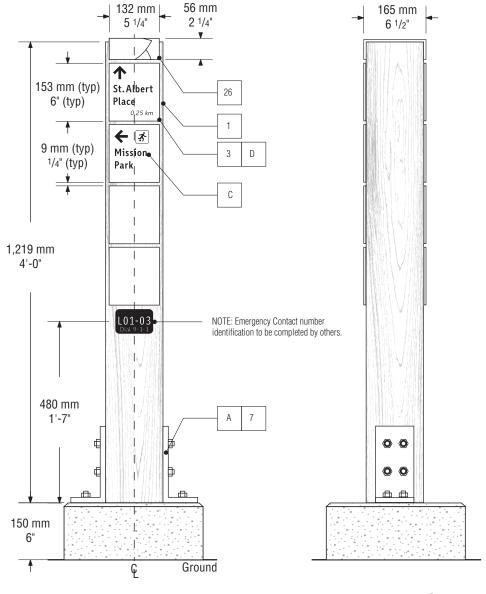
Scale: 1:20

Front View



#### D-2 Trail Marker • Top View

Scale: 1:10

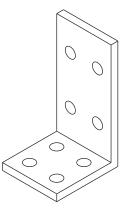


D-2 Trail Marker • Front View

Scale: 1:10

D-2 Trail Marker • Side View

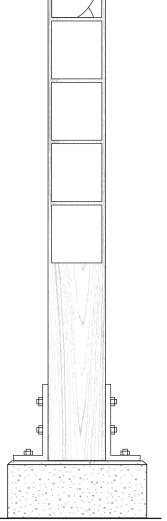
Scale: 1:10



#### Small Boot Detail

Scale: NTS

NOTE: Size of boots TBD as structural required.



NOTE: No messaging shown

#### D-2 Trail Marker • Back View

Scale: 1:10

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#### City of St. Albert

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## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

D-2 Trail Marker

SCALE

As Shown

DATE
June 24, 2016

DRAWN CHECKED
SK/CP -

COMMENTS

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REVISIONS

October 26, 2016

#### NOTES:

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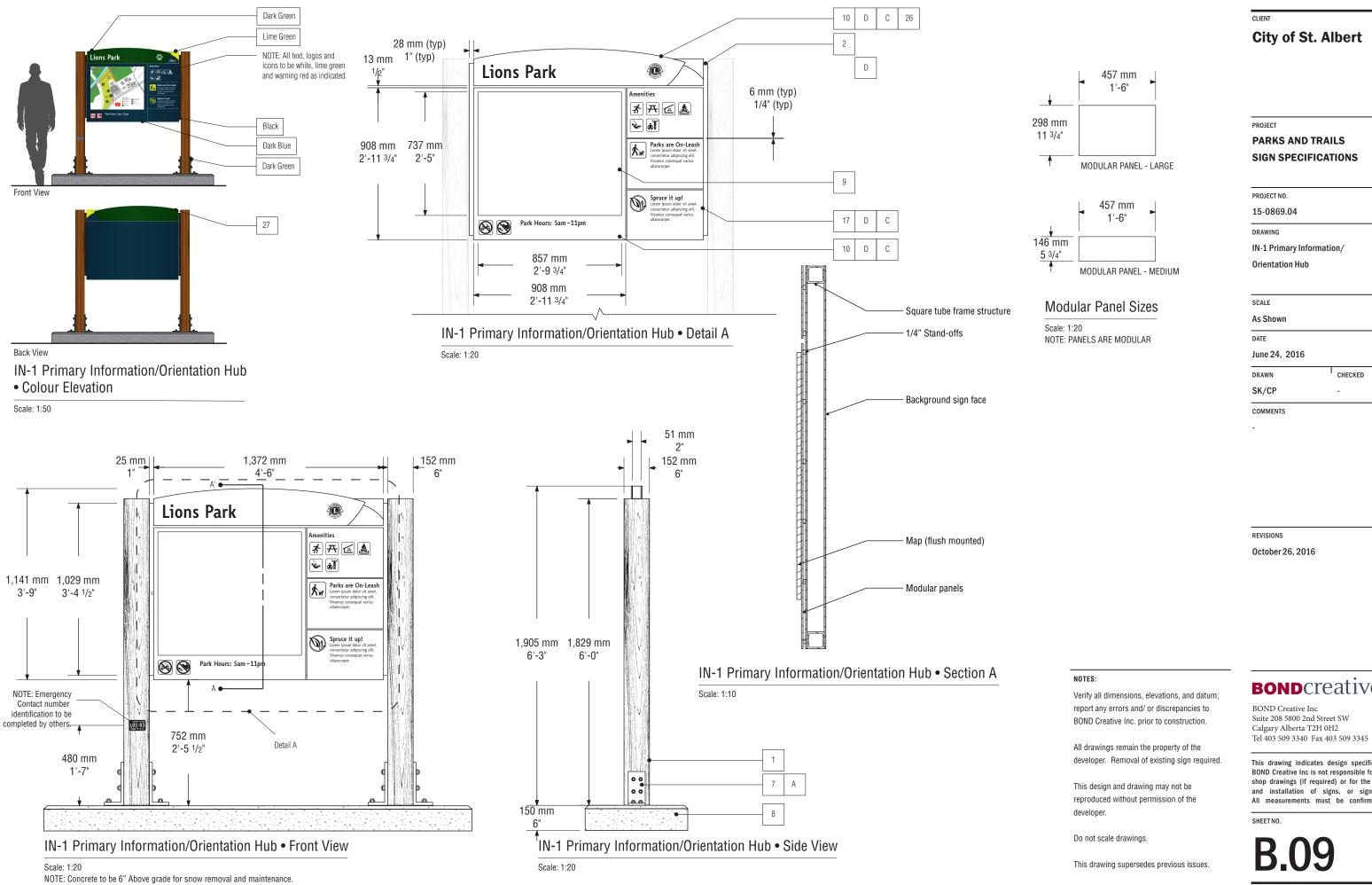
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CHEET NO

**B.08** 



#### City of St. Albert

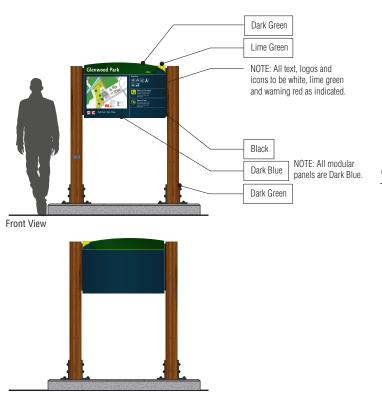
## **PARKS AND TRAILS**

CHECKED

#### **BOND**creative

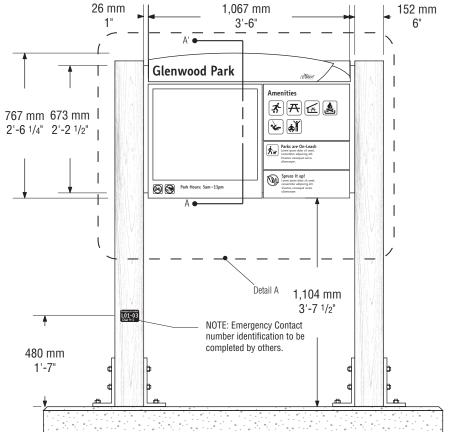
Suite 208 5800 2nd Street SW Calgary Alberta T2H 0H2

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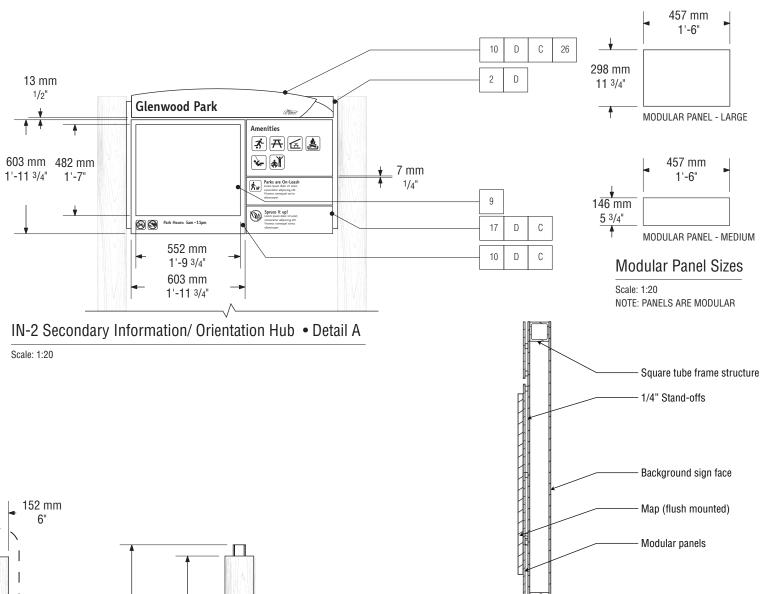
IN-2 Secondary Information/ Orientation Hub Colour Elevation

Scale: 1:50

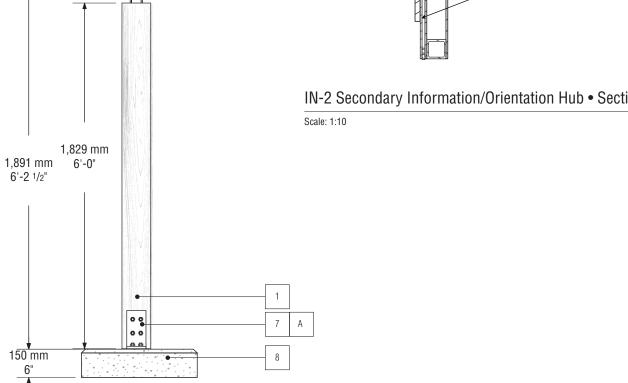


IN-2 Secondary Information/ Orientation Hub • Front View

NOTE: Concrete to be 6" Above grade for snow removal and maintenance.



IN-2 Secondary Information/Orientation Hub • Section A



IN-2 Secondary Information/ Orientation Hub • Side View

Scale: 1:20

CLIENT

#### City of St. Albert

#### **PARKS AND TRAILS SIGN SPECIFICATIONS**

PROJECT NO.

15-0869.04

DRAWING

IN-2 Secondary Information/ Orientation Hub

SCALE

As Shown

DATE

June 24, 2016

CHECKED

SK/CP

COMMENTS

REVISIONS

October 26, 2016

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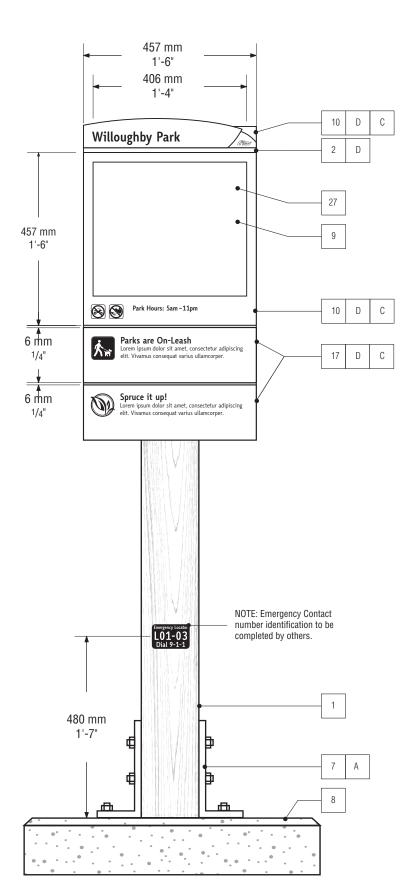
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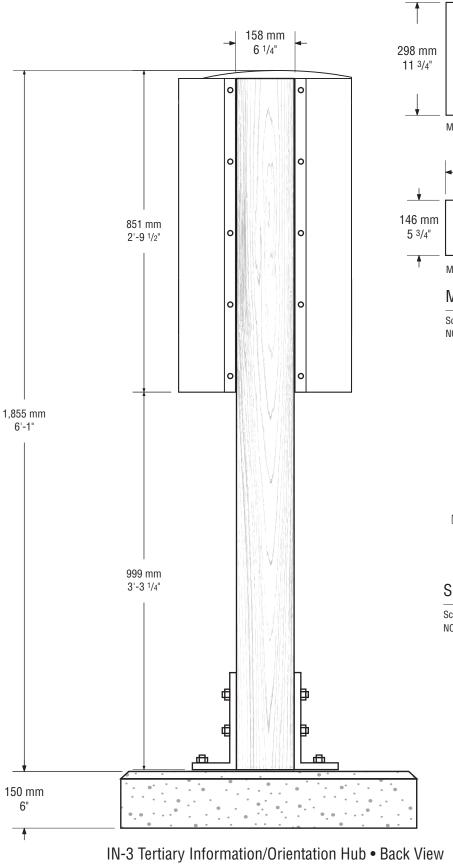
IN-3 Tertiary Information/ Orientation Hub • Colour Elevation

Scale: 1:25

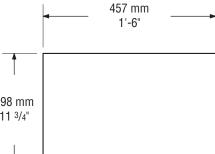


#### IN-3 Tertiary Information/Orientation Hub • Front View

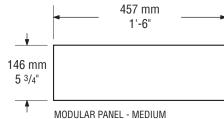
NOTE: Concrete to be 6" Above grade for snow removal and maintenance.



NOTE: Concrete to be 6" Above grade for snow removal and maintenance.

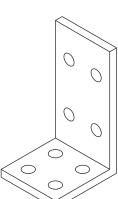


MODULAR PANEL - LARGE



#### Modular Panel Sizes

Scale: 1:20 NOTE: PANELS ARE MODULAR



#### Small Boot Detail

NOTE: Size of boots TBD as structural required.

#### NOTES:

Verify all dimensions, elevations, and datum; report any errors and/ or discrepancies to BOND Creative Inc. prior to construction.

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Do not scale drawings.

This drawing supersedes previous issues.

#### City of St. Albert

#### **PARKS AND TRAILS** SIGN SPECIFICATIONS

PROJECT NO.

DRAWING

15-0869.04

IN-3 Tertiary Information/

Orientation Hub

SCALE

As Shown

DATE June 24, 2016

CHECKED SK/CP

COMMENTS

REVISIONS

October 26, 2016

February 21, 2017

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White

#### \_\_\_\_

## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

IN-4 Facility Hours Information

SCALE

As Shown

DATE

June 24, 2016

SK/CP - CHECKED

COMMENTS

-

REVISIONS

-

NOTES:

IN-4 Facility Hours Information • Side View

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358 mm 1'-2" 7 mm 1/4" (around Lacombe all edges) **Skating Shack** Standoff **Winter Hours** 561 mm November 1 - March 31 1'-10" Monday CLOSED 20 С Tuesday to Friday 8:00am - 8:00pm Saturday and Sunday 8:00am - 10:00pm **Summer Hours** April 1 - October 31 CLOSED

IN-4 Facility Hours Information • Front View

Scale: 1:5

IN-4 Facility Hours Information • Colour Elevation

Lacombe

Winter Hours
November 1 - March 31

Monday CLOSED

Tuesday to Friday

8:00am - 8:00pm

Saturday and Sunday

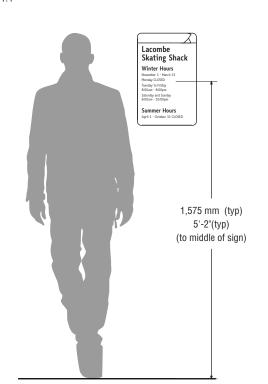
**Summer Hours** 

April 1 - October 31 CLOSED

8:00am - 10:00pm

**Skating Shack** 

Scale: 1:4



IN-4 Facility Hours Information • Front Elevation

Scale: 1:20

**BOND**creative

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SHEET NO.

**B.12** 

358 mm

1'-2"

**Notice** 

This trail is not

maintained during

the winter months

IN-5 Freestanding Information/

R-1 Regulatory Signs • Front View

NOTE: IN-5 Freestanding Information Sign shown as typical

1'-10"

Bolt heads to be painted

28

20

23

IN-5 Freestanding Information/

Scale: 1:5

R-1 Regulatory Signs • Side View

to match front face

IN-5 Freestanding Information/ R-1 Regulatory Signs • Front Elevation

IN-5 Freestanding Information

Scale: 1:20

CLIE

#### City of St. Albert

PROJECT

# PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

IN-5 Freestanding Informaion

R-1 Regulatory Sign

SCALE

As Shown

DATE
June 24, 2016

AWN CHECKE

SK/CP -

COMMENTS

-

REVISIONS

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#### NOTES:

Verify all dimensions, elevations, and datum; report any errors and/ or discrepancies to BOND Creative Inc. prior to construction.

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Do not scale drawings.

This drawing supersedes previous issues.

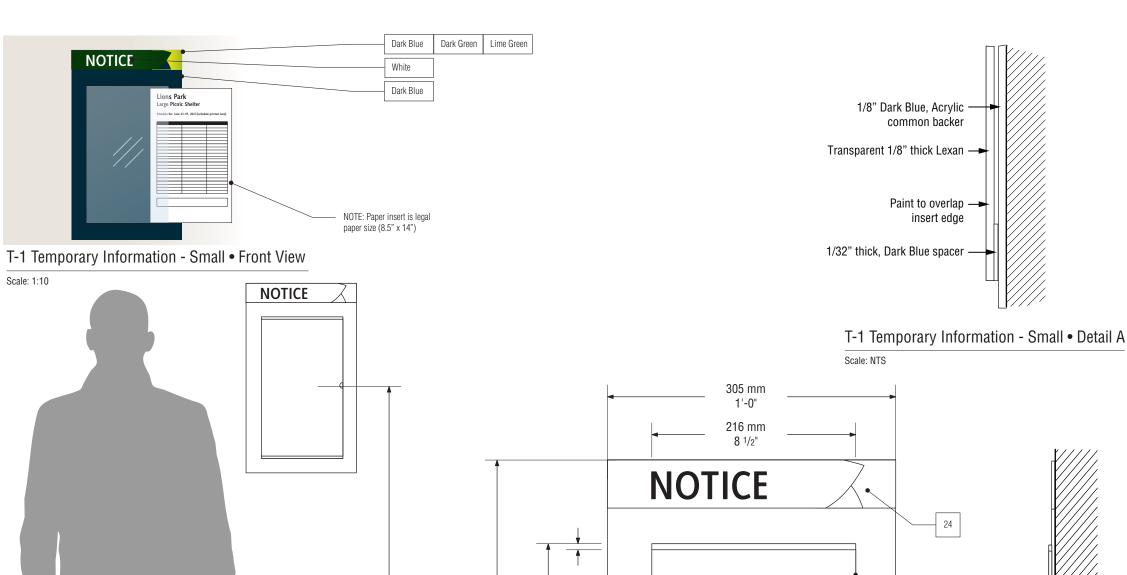
## **BOND**creative

BOND Creative Inc Suite 208 5800 2nd Street SW Calgary Alberta T2H 0H2 Tel 403 509 3340 Fax 403 509 3345

This drawing indicates design specifications only. BOND Creative Inc is not responsible for engineered shop drawings (if required) or for the construction and installation of signs, or sign structures. All measurements must be confirmed on site.

CHEET NO

**B.13** 



1,575 mm (typ) 5'-2" (typ) (to middle of sign) 6 mm

6 mm

1/4"

502 mm 375 mm 1'-7 3/4" 1'-2 3/4" NOTE: Lexan display window to include notches on both openings to allow for ease in replacing paper insert.

T-1 Temporary Information

NOTES:

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#### City of St. Albert

PROJEC

## PARKS AND TRAILS SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

T-1 Temporary Information - Small

SCALE

DATE

As Shown

June 24, 2016

DRAWN CHECKED

SK/CP -

COMMENTS

-

REVISIONS

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**BOND**creative

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SHEET NO.

**B.14** 

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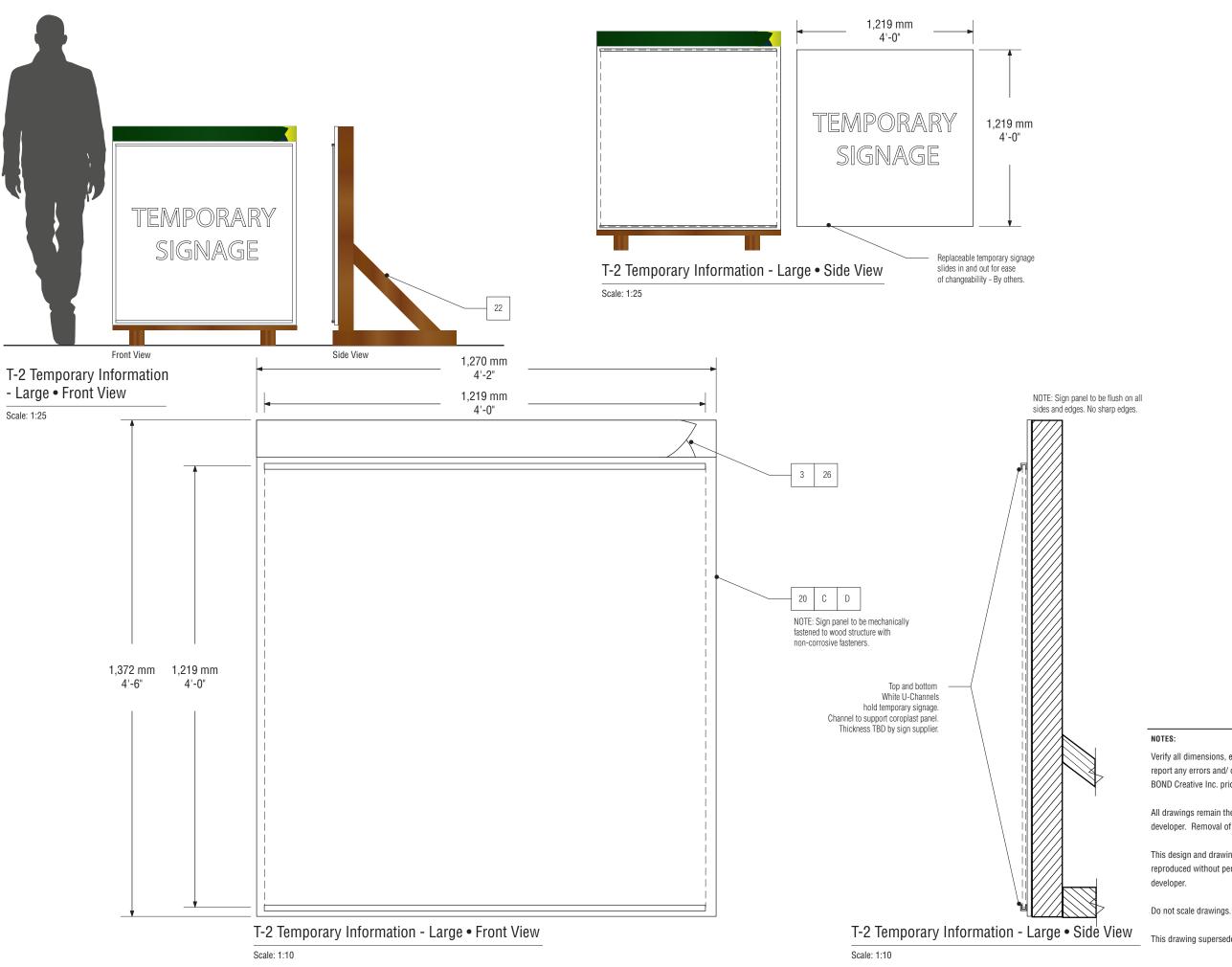
T-1 Temporary Information - Small • Front Elevation

Scale: 1:10

T-1 Temporary Information - Small • Front View
Scale: 1:4

T-1 Temporary Information - Small • Front View
Scale: 1:4

This drawing supersedes previous issues.
Scale: 1:4



#### City of St. Albert

#### **PARKS AND TRAILS** SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

T-2 Temporary Information - Large

SCALE

As Shown

DATE

June 24, 2016

CHECKED SK/CP

COMMENTS

REVISIONS

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This drawing supersedes previous issues.

## **BOND**creative

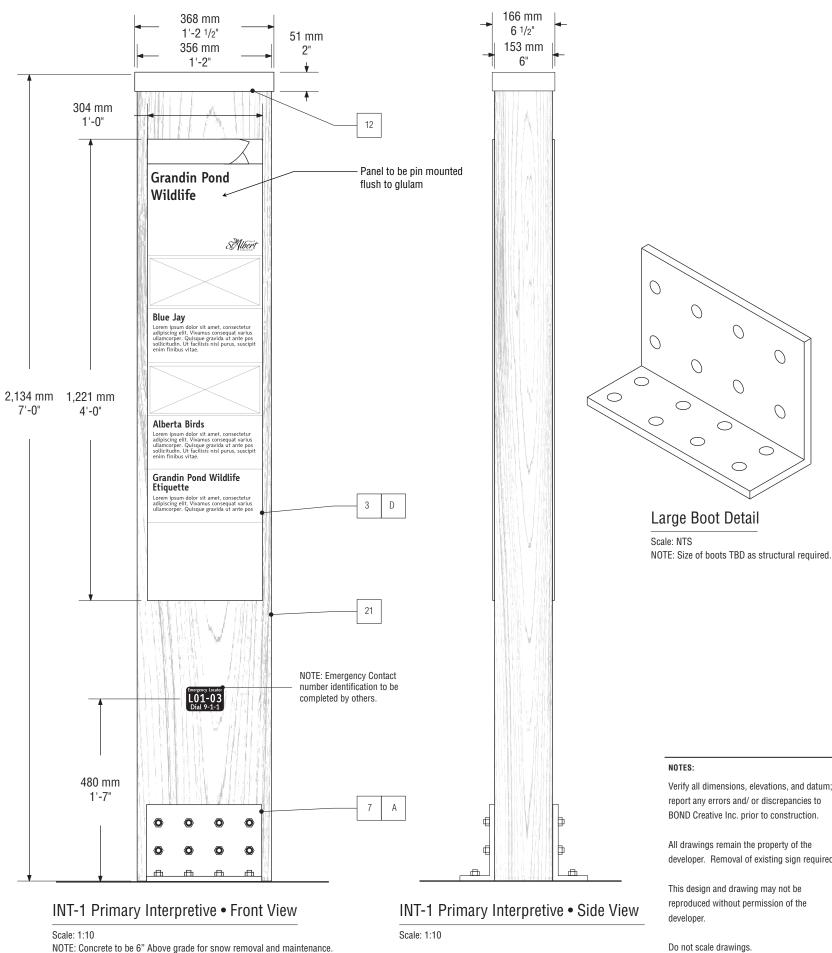
BOND Creative Inc Suite 208 5800 2nd Street SW Calgary Alberta T2H 0H2 Tel 403 509 3340 Fax 403 509 3345

This drawing indicates design specifications only. BOND Creative Inc is not responsible for engineered shop drawings (if required) or for the construction and installation of signs, or sign structures. All measurements must be confirmed on site.



INT-1 Primary Interpretive • Front View

Scale: 1:25



CLIENT

#### City of St. Albert

#### **PARKS AND TRAILS** SIGN SPECIFICATIONS

PROJECT NO.

15-0869.04

DRAWING

**INT-1** Primary Interpretive

SCALE

As Shown

DATE

June 24, 2016

DRAWN CHECKED

COMMENTS

SK/CP

REVISIONS

October 26, 2016

Verify all dimensions, elevations, and datum; report any errors and/ or discrepancies to BOND Creative Inc. prior to construction.

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## **BOND**creative

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This drawing indicates design specifications only. BOND Creative Inc is not responsible for engineered shop drawings (if required) or for the construction and installation of signs, or sign structures. All measurements must be confirmed on site.

- 1. THE STRUCTURAL ENGINEER AND THE OWNER DOES NOT HAVE CONTROL OR CHARGE OF, AND SHALL NOT BE RESPONSIBLE FOR:
  - CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES
  - FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK
  - FOR THE ACT OR OMISSIONS OF THE CONTRACTOR, SUB CONTRACTORS OR ANY OTHER PERSONS PERFORMING ANY OF THE WORK
- D. THE FAILURE OF ANY OF THEM TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- CONTRACTOR SHALL CHECK ALL DIMENSIONS AND DETAILS PRIOR TO CONSTRUCTION TO ENSURE COMPATIBILITY.
- CONTRACTOR SHALL CONFIRM NO OBSTRUCTIONS OF UNDERGROUND OR ABOVE GROUND SERVICES PRIOR TO START OF WORK. ALBERTA ONE CALL 1-800-242-3447 AND CITY UTILITIES 780-459-1557.
- ELEVATIONS TO BE CONFIRMED ON SITE BY CONTRACTOR
- DRAWINGS ARE DIMENSIONED IN MILLIMETERS; ELEVATIONS ARE NOTED IN METERS. DO NOT SCALE

DESIGN LOADS					
WIND LOAD:	q <b>火</b> ₀	0.35	kN/m² (kPa)		
WIND LOAD.	q <b>⅓</b> 0	0.45	kN/m² (kPa)		
WIND LOAD IMPORTANC	I <sub>w</sub> 1.00				
VANDALISM LOAD (LATERAL LOAD ON POST): 1 kN					

#### **FOUNDATIONS:**

- 1. SOIL PARAMETERS USED IN THE DESIGN OF THE FOUNDATION ARE BASED ON THE FOLLOWING ASSUMPTIONS:
  - A. ALLOWABLE SKIN FRICTION OF 15 kPa (SLS) BELOW A DEPTH OF 1.50 m.
  - ULTIMATE FACTORED SKIN FRICTION OF 12 kPa (ULS) BASED ON A FACTOR OF SAFETY OF 2.0 AND A ULS RESISTANCE FACTOR OF 0.4
  - C. LATERAL SUBGRADE MODULUS OF 20 MN/m<sup>3</sup>
  - NEGLIGIBLE SKIN FRICTION ABOVE A DEPTH OF 1.50 m.
- SIGN POST FOUNDATION IS NOT PLACED ON LOOSE FILL (I.E. NO DOWNDRAG EFFECTS). 2 CONFIRMATION OF SOIL CONDITIONS WITHIN THE FOUNDATION EXCAVATION FOOTPRINT TO BE CONFIRMED BY THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROCURE (IF REQUIRED) AND COORDINATE ALL GEOTECHNICAL FIELD REVIEWS WITH THE GEOTECHNICAL ENGINEER DURING CONSTRUCTION.
- DO NOT PLACE CONCRETE AGAINST FROZEN GROUND. THAW BY AN APPROVED METHOD AND THEN
- PROTECT EXCAVATIONS AND DRILLED HOLES FROM FREEZING PRIOR TO PLACING CONCRETE. PILES SHALL BE PLACED WITH THE FOLLOWING TOLERANCES:
- A. NOT MORE THAN 2% OF ITS LENGTH OUT OF PLUMB FOR VERTICAL PILES. NOT MORE THAN 75 mm OFF CENTER AT THE TOP.
- ALL DOWELS SHALL BE PLACED BEFORE CONCRETE IS POURED.
- COORDINATE CONSTRUCTION WITH ARCHITECTURAL AND/OR LANDSCAPE DRAWINGS.

#### **CAST-IN-PLACE REINFORCED CONCRETE:**

- 1. CONCRETE SHALL CONFORM TO LATEST EDITION OF CSA-A23.1 A23.2 AND A23.3.
- 2. CONCRETE MATERIALS, QUALITY, MIXING, PLACING, FORMWORK AND OTHER CONSTRUCTION PRACTICES TO CONFORM TO LATEST EDITION OF CSA-A23.1.
- SUPPLY CONTROLLED CONCRETE IN ACCORDANCE WITH CSA-A23.1 WITH PROPERTIES NOTED AS

CONCRETE PROPERTIES									
CONCRETE LOCATION	EXPOSURE CLASS		28 DAY STRENGTH	56 DAY STRENGTH	MAX. AGG. SIZE	MAX. W/C RATIO	MAX. SLUMP	AIR CONTENT	WET CURING PERIOD
PILES &	S-2	HS	25 mPa	32 mPa	20 mm	0.45	120 mm	4 - 7%	3 days

- CONTRACTOR SHALL ONLY ADJUST THE MAXIMUM SLUMP BY THE ADDITION OF SUPER-PLASTICIZERS. NO ADMIXTURES SHALL BE USED WITHOUT THE APPROVAL OF THE ENGINEER. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
- USE OF FLY ASH LIMITED TO 30% BY MASS OF CEMENTING MATERIALS. ALL FLY ASH SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF CSA A3000 TYPE "F" OR "CL". MIN 28 DAY STRENGTH
- 6. CONCRETE AGGREGATE SHALL NOT REACT WITH ALKALIS CONTAINED WITHIN THE CONCRETE TO AN EXTENT THAT RESULTS IN EXCESSIVE EXPANSION OR CRACKING, OR BOTH, OF THE CONCRETE. WHEN POTENTIALLY REACTIVE AGGREGATES ARE TO BE CONSIDERED FOR USE. PREVENTIVE MEASURES ACCEPTABLE TO THE OWNER SHALL BE APPLIED. SEE CSA A23.1-09 SECTION 4.2.3.5.1
- PROVIDE 100 mm VOID LINDER PILE CAPS FORMED LISING FROST CLISHION BY BEAVER PLASTICS OR GEOSPAN BY PLASTIFAB. SOLID STYROFOAM IS NOT ACCEPTABLE.
- 8. WINTER AND HOT WEATHER CONCRETE PROCEDURES TO LATEST EDITION OF CSA A23.1.
- 9 PLACE AND CURE CONCRETE ACCORDING TO LATEST EDITION OF CSA A23.1
- 10. CONCRETE TO BE TESTED ACCORDING TO LATEST EDITION OF CSA A23.1.
- 11. REJECT ALL CONCRETE WHEN TIME BETWEEN BATCHING AND PLACING EXCEEDS 2 HOURS.
- 12. REFER TO ARCHITECTURAL DRAWINGS FOR SLAB ELEVATIONS AND DRAINAGE SLOPES.
- 13. FIELD AND LABORATORY TESTING OF CONCRETE TO BE COMPLETED BY A QUALIFIED THIRD PARTY TESTING AND INSPECTION AGENCY.
- 14. A MINIMUM OF THREE TEST CYLINDERS SHALL BE TAKEN FOR EACH TYPE OF MAJOR STRUCTURAL
- I. FOR EVERY 50 m<sup>3</sup> PLACED PER DAY, OR FRACTION THEREOF; OR
- WHEN PLACING LESS THAN 50 m<sup>3</sup> OF CONCRETE.
- ONE OF THE CYLINDERS SHALL BE TESTED AT 7 DAYS AND THE OTHER TWO SHALL BE TESTED AT
- 15. THIRD PARTY CONCRETE TESTING TO BE PAID FOR BY THE CONTRACTOR.
- 16. ADDITIONAL TESTING REQUIRED DUE TO CHANGES IN THE MATERIAL OR THE MIX PROPERTIES, AS WELL AS ANY EXTRA TESTING OF THE CONCRETE OR MATERIAL OCCASIONED BY THEIR FAILURE TO MEET THE SPECIFICATION REQUIREMENTS SHALL BE PAID FOR BY THE CONTRACTOR.

- 17. PROTECT FRESHLY PLACED CONCRETE FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS AND FROM WEATHER CONDITIONS OR ANY OTHER CIRCUMSTANCES WHICH WOULD LIKELY CAUSE DETERIORATION OF THE CONCRETE QUALITY.
- REMOVE ALL TIES, BOLTS, NAILS, AND OTHER METAL TO A DEPTH OF 25 mm AND FILL THE HOLES. CHIP OFF AND RUB ALL FINS AND OTHER PROJECTIONS UNTIL FLUSH WITH THE GENERAL SURFACE.
- 19. CONCRETE TO HAVE A TOOLED EDGE AND BROOM FINISH.

#### REINFORCING STEEL:

- ALL CONCRETE REINFORCEMENT TO BE IN ACCORDANCE WITH LATEST EDITION OF CSA G30.18.
- SPLICING OF REINFORCING STEEL SHALL NOT BE PERMITTED.
- SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION
- REINFORCING BARS TO BE BILLET STEEL, DEFORMED BARS, GRADE 400 R.
- ACCURATELY PLACE REINFORCEMENT AND SECURE AGAINST DISPLACEMENT DURING CONCRETE PLACING SUPPORT SHALL BE BY MEANS OF PLASTIC CHAIRS. SPACERS, OR BRICKS FOLLOWING THE RECOMMENDATIONS OF "REINFORCING STEEL - MANUAL OF STANDARD PRACTICE" (REINFORCING STEEL INSTITUTE OF CANADA). ALL CHAIRS OR BAR SUPPORTS SHALL BE NON-METALLIC. SPACING OF REINFORCEMENT SUPPORTS IN PILE CAPS NOT TO EXCEED 1000 mm
- NO WELDING OF REINFORCING BARS SHALL BE PERMITTED.
- PROVIDE 50 mm COVER FOR REINFORCEMENT UNLESS NOTED OTHERWISE
- COVER FOR REINFORCEMENT:

75 mm PILE CAPS (TOP AND SIDES): 50 mm PILE CAPS (BOTTOM): 75 mm

#### STRUCTURAL STEEL:

- ALL STRUCTURAL STEEL PLATE TO BE GRADE 300W IN ACCORDANCE WITH CSA G40.21. CONFIRM ALL LOCATIONS, DIMENSIONS AND ELEVATIONS WITH ACTUAL SITE MEASUREMENTS BEFORE FABRICATION.
- 2. SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH GENERAL NOTES ON THESE DRAWINGS AND WITH SPECIFICATIONS. SHOP DRAWINGS FOR ANCHOR BOLT LAYOUT AND EMBEDDED PLATE SIZE AND LAYOUT SHALL ALSO BE SUBMITTED FOR REVIEW.
- WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. FABRICATION SHOPS SHALL BE APPROVED BY THE CANADIAN WELDING BUREAU TO CSA-W47.1 (DIVISION 1, 2 OR 2.1). CERTIFICATIONS SHALL BE SUPPLIED TO THE ENGINEER UPON REQUEST.
- IMPERIAL SIZE BOLTS AND PLATE PRODUCTS ARE ACCEPTABLE ON AN EQUAL SIZE EQUAL STRENGTH
- ALL STRUCTURAL STEEL TO BE FINISH PAINTED BY WIRE BRUSHING AND REMOVING ALL RUST, DIRT, MILL SCALE, WELD SPATTER AND ALL OTHER EXTRANEOUS MATERIAL IN ACCORDANCE WITH SSPC SPECIFICATIONS SP7 BEFORE APPLYING POWDER COATING EXCEPT THOSE SURFACES TO BE IN CONTACT WITH CONCRETE. REFER TO ARCHITECTURAL DRAWINGS FOR FINISHING DETAILS.
- 6. ALL EXPOSED WELDS TO BE CONTINUOUS. GRIND ALL EXPOSED WELDS SMOOTH, INCLUDING PAINTED
- PROVIDE WEEP HOLES FOR ALL EXPOSED HSS MEMBERS.
- ANCHOR BOLTSTO BE HILTI HAS STAINLESS STEEL THREADED ROD TO GRADE AISI 304/316 SECURED WITH HILTI HIT-HY-200 OR RE-500 EPOXY ADHESIVE OR APPROVED EQUAL
- PRIME SURFACE TO RECEIVE A POWDER COATED FINISH IN ACCORDANCE WITH THE POWDER COATING MANUFACTURES SPECIFICATIONS.
- 10. APPLY 2 COATS OF STATIC ASPHALT TO ALL STEEL SURFACES IN CONTACT WITH CONCRETE.
- 11. WELDS AND BURNED OR SCRATCHED SURFACES SHALL BE SURFACE PREPARED BY GRINDING OR BLASTING THEN TOUCHED UP AND RE-FINISHED AT COMPLETION OF ERECTION.
- 12. HOLES THROUGH PLATES SHALL BE 2 mm LARGER THAN BOLT DIA.

#### WOOD

- ALL DESIGN, DETAILS, MATERIALS AND CONSTRUCTION PROCEDURES SHALL CONFORM TO CURRENT ADDITION OF CAN/CSA-086, ENGINEERING DESIGN IN WOOD.
- - DESIGN TO LATEST EDITION OF CSA CAN3-086.1.
- II. ALL SAWN POST TO BE ROUGH SPRUCE (BROWN), ACQ TREATED (NO STAIN OR PAINT).
- III. ALL WOOD TO BE PRESERVED WOOD PRESSURE TREATED TO LATEST EDITION OF CSA-080.1-M AND ITS SUPPLEMENTS USING ACA OR CCA WATER-BORNE PRESERVATIVE.
- IV. ALL POST DIMENSIONS SHALL BE ACTUAL ROUGH SIZE, NOT NOMINAL SIZE
- V. FIELD TREAT CUTS AND DRILLED HOLES IN PRESERVED WOOD WITH TWO COATS OF SURFACE APPLIED PRESERVATIVE.
- ANY TIMBER NOT GRADE MARKED WILL BE REJECTED.
- NOTCHING AND DRILLING OF STRUCTURAL COMPONENTS SHALL FOLLOW THE GUIDELINES OUTLINED IN THE ALBERTA BUILDING CODE, PART 9 AND THE CANADAIAN WOOD COUNCIL, WOOD DESIGN MANUAL.
- 5 ALL TIMBER ELEMENTS ARE DESIGNED FOR WET SERVICE CONDITIONS.
- ALL FASTENERS TO BE STAINLESS STEEL TO GRADE 304/316

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	1	17/02/23	REVISIONS D-2 DETAIL	DBK	UM	AWS
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EOMETRIX GROUP ENGINEERING L

February 21, 2017 PERMIT NUMBER: P10423 The Association of Professional Engine

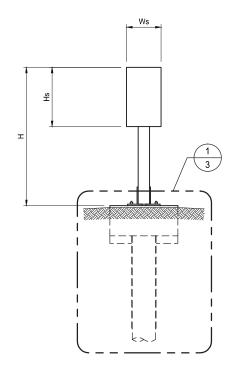
THE CITY OF ST. ALBERT OJECT: PARK SIGN FOUNDATION STANDARDS ATION: ST. ALBERT. ALBERTA

GENERAL NOTES

S-001

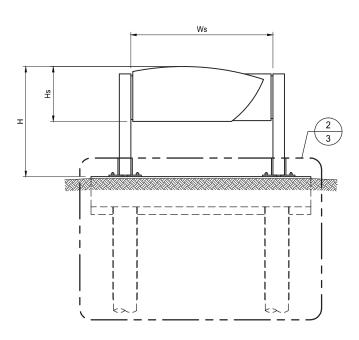
HEET NUMBER 1 of 4

	TABLE A: SIGN DESCRIPTION							
Sign Designation	Sign Type	Description	Width Ws (mm)	Height H <sub>S</sub> (mm)	Overa <b>ll</b> Height H (mm)	Post Size (mm)	No of Posts	
ID - 1	ID - 1 B Primary Park Identification		2437	950	1677	203 X 203	2	
ID - 2	ID - 2 B Secondary Park Identi		1829	713	1448	152 X 152	2	
ID - 3	В	Tertiary Park Identification	1219	432	1219	152 X 152	2	
D - 1	С	Pedestrian Directional	1972	374	2743	113 x 113	1	
D - 2	Α	Trail Marker	-	-	1219	152 X 152	1	
IN - 1	В	Primary Information/Orientation	1372	1141	1905	152 X 152	2	
IN - 2	В	Secondary Information Sign	1067	767	1891	152 X 152	2	
IN - 3	Α	Tertiary Information Sign	457	851	1855	152 X 152	1	
INT - 1	Α	Primary Interpretive	-	-	2134	356 X 152	1	

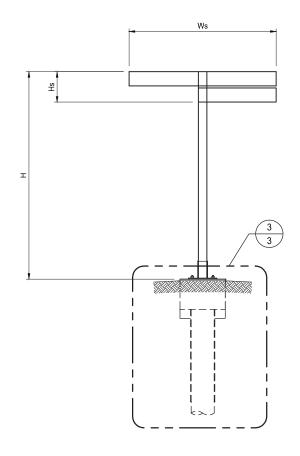


TYPE A
ONE WOOD POST SIGN SYSTEM

1:50
SIGN IN-3, INT-1



TYPE B
TWO WOOD POSTS SIGN SYSTEM
1:50 SIGN ID-1, ID-2, ID-3, IN-1, IN-2



TYPE C ALUMINUM POST SIGN SYSTEM 1:50 SIGN D-1, D-2

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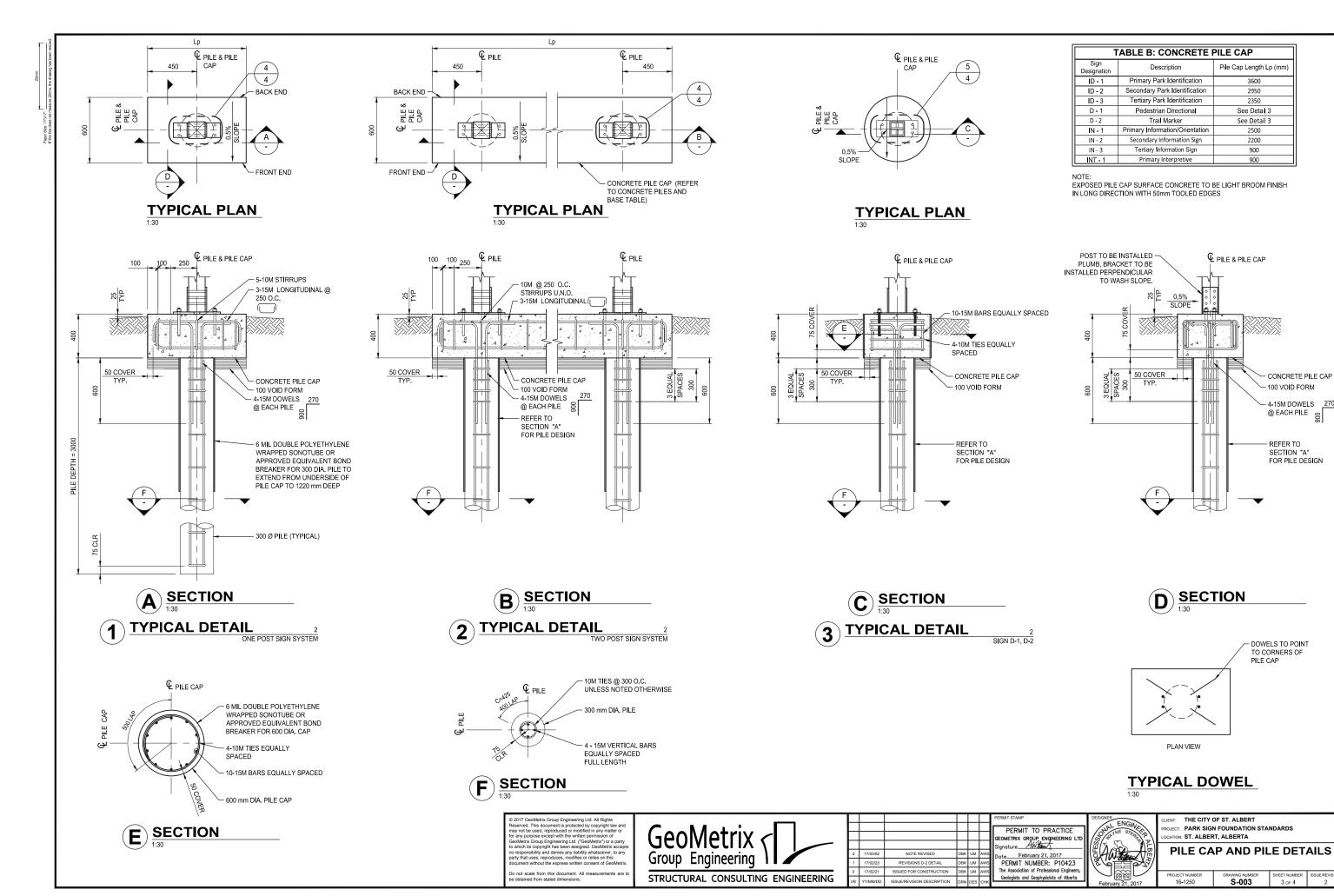
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2	17/03/02	NOTE REVISED	-	<del>-</del>	AWS	DatePebruary 21, 2017
1	17/02/23	REVISIONS D-2 DETAIL	DBK	-	AWS	T ENMIT HOMBERS T TO IZO
0	17/02/21	ISSUED FOR CONSTRUCTION	DBK	UM	AWS	The Association of Professional Engineers, Geologists and Geophysicists of Alberta
I/F	YY/MM/DD	ISSUE/REVISION DESCRIPTION	DRN	DES	снк	Geologists and Geophysicists of Alberta



CLIENT: THE CITY OF ST. ALBERT
PROJECT: PARK SIGN FOUNDATION STANDARDS
LOCATION: ST. ALBERT, ALBERTA

**GENERIC ELEVATIONS** 

PROJECT NUMBER	DRAWING NUMBER	SHEET NUMBER	ISSUE/REVISION
16-1250	S-002	2 of 4	2



CONCRETE PILE CAP

- 4-15M DOWELS 270

@ EACH PILE &

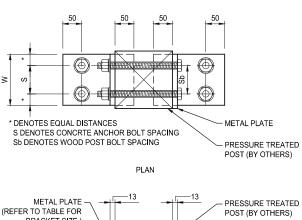
─ 100 VOID FORM

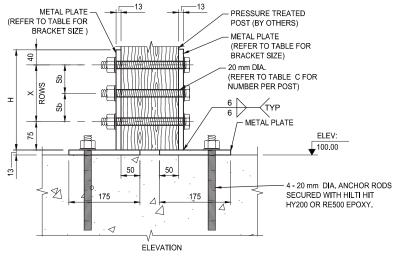
REFER TO

SECTION "A"

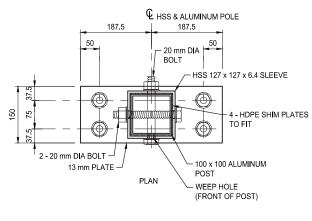
SHEET NUMBER 3 of 4

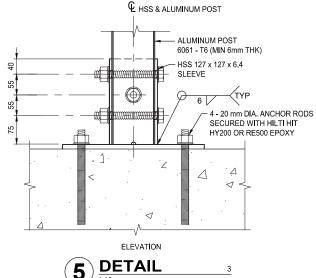
FOR PILE DESIGN

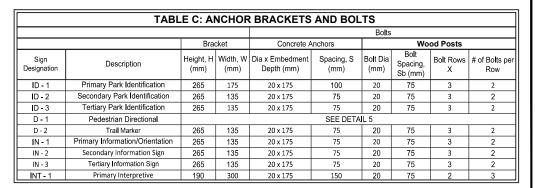




**DETAIL** 







- 1. BRACKETS TO BE POWDER COATED RAL 6020 CHROME GREEN UNLESS NOTED OTHERWISE.
- 2. ALL ANCHOR RODS AND MOUNTING FASTENERS TO BE STAINLESS STEEL.

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2	17/03/02	NOTE REVISED	DBK	UM	AWS	Date February 21, 2017
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0	17/02/21	ISSUED FOR CONSTRUCTION	DBK	UM	AWS	
I/R	YY/MM/DD	ISSUE/REVISION DESCRIPTION	DRN	DES	снк	Geologists and Geophysicists of Alberta



THE CITY OF ST. ALBERT OJECT: PARK SIGN FOUNDATION STANDARDS
CATION: ST. ALBERT, ALBERTA

## BRACKET, ANCHOR AND

MISCE	LLANEOUS	SDETA	ILS
PROJECT NUMBER	DRAWING NUMBER	SHEET NUMBER	ISSUE/REVISIO
40.4050	0.004		