# Sign No. 12

**Pedestrian - Minor Wayfinding A**

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**Project Details**
- **Project:** Campus Wayfinding
- **Number:** FM 09-8567
- **Issue Date:** Jan 31, 2012
- **Sign:** Sign No. 12 - Minor Wayfinding A
- **Sheet Name:** title sheet and drawing list
- **Scale:** as noted
- **Sheet Number:** 01
core colours

clear anodized coating  
application: sign structure

PANTONE 185 C  
application: pinstrip, arrows

PANTONE 426 C  
application: text, crest - monochromatic

PANTONE 7541 C  
application: background, back panel (single sided sign), crest - reversed monochromatic

gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHJKLMNPQRSTUWXYZ
abcdefghijklmnopqrstuvwxyz

1234567890

University of Victoria Logo, horizontal standard

full colour  
opaque monochromatic  
opaque monochromatic reversed

project: Campus Wayfinding  
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sign: Sign No. 12 - Minor Wayfinding A  
typography, colours and pictograms

as noted

sheet number: 02
Description
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate
Aluminum panel size (one piece): 800 mm x 1050 mm x 6.4 mm
See sheet 05 for details.

Vinyl: 3M IJ180, MPI 2005 or equivalent
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent.

1) One piece vinyl to be printed on, installed as per manufacturer’s recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer.
3) Wrap vinyl and overlaminate over the edges of the aluminum panel.
4) If single sided sign then back panel to receive vinyl printed with PANTONE 7541 C.

Refer to Adobe Photoshop files for detailed sample layout.
102mm x 102mm x 6.4mm aluminum square tube
w/ clear anodized finish (typ)

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

51mm x 51mm x 4.8mm aluminum square tube
internal framing
all connection to be welded (typ)

25mm x 25mm x 4.8mm aluminum square tube
internal framing
all connection to be welded (typ)

3.2mm thick aluminum rain cap, welded to post
rain cap to have clear anodized finish (typ)

alu. rain cap mechanically fastened to stringer
with tamper resistant screws,
as required. rain cap to have clear anodized finish

leave 10mm min. gap between post and rain cap (typ)

38 mm dia. hole for bolt installation

40mm x 10mm aluminum spacer
w/ clear anodized finish.
Spacer to terminate 50mm from top and bottom of framing (typ)

102mm x 102mm x 6.4mm aluminum square tube
w/ clear anodized finish (typ)

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

225mm x 225mm x 19mm base plate w/ clear anodized finish welded to post.

4-19mm s/s anchor bolts
w/ washers and leveling nuts (typ)
nuts to extend max 10mm above bolt

fill with 35 MPa non-shrink grout (typ)

6.4mm thick aluminum sign panel
to be mechanically fastened
to internal framing with
tamper resistant s/s screws

3.2mm thick aluminum rain cap, welded to post
rain cap to have clear anodized finish (typ)

25mm x 25mm x 4.8mm aluminum square tube
internal framing
all connection to be welded (typ)

leave open at bottom (typ)
base to extend min 50mm above ground

12 mm dia. tamper resistant s/s thru bolt (typ)

400mm dia. concrete foundation
reinforced with 5-15M vert. 10mm ties @ 300mm
two ties at top

400mm dia. concrete foundation

front view/section scale 1:15

side view/section scale 1:15

General Note:
Manufacturer to verify all dimensions
prior to sign fabrication. All discrepancies
should be reported to the Architect.

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6.4mm thick aluminum plate (sign panel)

51mm x 51mm x 4.8mm aluminum square tube (internal framing)

6.4mm thick aluminum square tube w/ clear anodized finish.

51mm x 51mm x 4.8mm aluminum square tube (internal framing)

3.2mm thick aluminum rain cap beyond w/ clear anodized finish welded to post (typ)

6.4mm thick aluminum plate (sign panel)

12 mm dia. tamper resistant s/s thru bolt (typ)

102mm x 102mm x 19mm aluminum square tube

80mm dia. hole for bolt installation

General Note:
Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

s/s self tapping, tamper resistant screws

s/s self tapping, tamper resistant screws (typ)

s/s washer

19mm s/s anchor bolts with washers and leveling nuts. Bolt to extend 10mm max. above nut. Nuts to be locked with threadlocker - clean any visible residue after application (typ) (see also sheet 07)

38mm dia hole (bolt access)

51mm x 51mm x 4.8mm aluminum square tube (internal framing)

panel to extend 5mm below internal framing

225mm x 225mm x 19mm aluminum base plate w/ clear anodized coating welded to post (typ)

project: Campus Wayfinding
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sheet name: Sign construction - details
scale: as noted

sheet number: 06

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GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID’s should correspond with ID’s shown on location plan.
2. Fasteners:
   - foundation (anchor bolts):
     - bolts: Fastenal part #47406 (1/2” s/s threaded rod)
     - nuts: Fastenal part #70714 (1/2” s/s nuts)
   - posts:
     - thru bolts: Fastenal part #174786 (1/2” s/s x 5” button Socket Cap Screw)
     - thru bolt washers: Fastenal part #71021 (1/2” s/s washers)
     - thru bolt nuts: 70714 (1/2” s/s nuts)
   - security screws:
     - panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
     - rain cap attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4” button head security screw)
   - Threadlocker: Locktite 271 Red
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating) are protected against rusting.
5. Manufacturer to verify all dimensions prior to sign fabrication. All discrepancies should be reported to the Architect.

STRUCTURAL NOTES

DRAWINGS
1. These drawings show the completed project. The drawings do not show components that may be necessary for construction safety, which is the responsibility of the contractor.
2. The use of these drawings is limited to that indicated in the revisions column.
3. The information on these drawings shall not be used for any other project or works.

DESIGN
1. The structures shown have been designed in substantial accordance with the British Columbia Building Code 2006, which is based on the National Building Code of Canada 2005.
2. The following wind loads and factors were used: q50=0.63kPa, Iw=1.0-ULS, 0.75-SLS.

FIELD REVIEW BY STRUCTURAL ENGINEER
1. Structural Engineer provides field review only for the work shown on these structural drawings, and it is conducted with such frequency as Structural Engineer deems appropriate to ascertain that the work is in general conformance with the documents prepared by Structural Engineer.
2. Field review by Structural Engineer is not carried out for the Contractor’s benefit, nor does it make Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.
3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL
2. Reinforcing shall conform to CAN/CSA-G30.18R – Grade 400MPa.
3. Cover to reinforcing steel to be 50mm uno.
4. Portland cement shall be type gu unless noted otherwise.
5. Concrete shall have a unit weight of 23±1 kn/m3/ (145±5 pcf) unless noted otherwise.
6. Concrete shall have a compressive strength of 35MPa at 28 days, and conform to exposure class C-1 with a maximum water-cement ratio of 0.40 and air content of 5-8%. Maximum aggregate size to be 19mm.
7. No calcium chloride is permitted, in any form, in any concrete mix. Curing and protection of concrete for hot, cold or dry weather is to be as per clauses 7.4.1.8 and 7.4.2 of CAN/CSA.

STRUCTURAL ALUMINUM
1. Aluminum sections shall be new.
2. Aluminum alloys shall conform to the Aluminum Association publication Aluminum Standards and Data ISO 6361-2 or ISO 6362-2.
3. Extruded shapes, Tubes, Bolts, and Plate to be 6061 alloy uno.
4. Aluminum in contact with concrete or grout shall be given a heavy coat of alkali-resistant bituminous paint or other equivalent coating before installation.
5. Welding operators and procedures shall be qualified according to CSA W47.2.
6. Submit shop drawings for review prior to start of steel fabrication.
7. Fabrication practices and tolerances shall be in accordance with CAN/CSA-S16, except bolt holed edge distance tolerance to be -0, +2mm.
8. Anchor and connection bolts to be ASTM A193 Stainless Steel. Anchors shall be embedded 300mm into concrete, complete with a nut and washer each end.
9. Until noted otherwise, column base plates shall be 20 mm minimum thick. Anchor bolt holes shall be punched undersize and reamed to size.
10. Provide 6 mm cap plates for all tube members uno. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
11. Aluminum shall be connected with fillet welds all-around uno. Weld size shall match the wall thickness of the thinnest part being connected uno. Welds to be ground smooth.

TAMPER RESISTANCE AND CONNECTIONS
1. Connection hardware to be stainless steel uno.
2. Aluminum panels to be connected to a structure with 6.4mm diameter stainless steel self-tapping screws at 450mm maximum centre to centre spacing.
3. Non-removable panels may be welded or glued by the manufacturer, as approved by Structural Engineer.
4. Panel connection screws to be tamper resistant "Torx-Pin" screws as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.
5. Visible connection bolts shall be "Pentagon" tamper resistant bolts, with "Pentagon" nuts as supplied by O.E.M. Hardware of Surrey BC, or equivalent as approved by Structural Engineer.

Structural Engineer guarantors of the Contractor’s work. It remains the Contractor’s responsibility to build the work in conformance with the contract documents. Structural Engineer shall not be responsible for the acts or omissions of the Contractor, Sub-Contractor, or any other persons performing any of the work or for the failure of any of them to carry out the work in accordance with the contract documents.

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