Sheet List	
Sheet Number	Sheet Name
01	title sheet and drawing list
02	typography, colours and pictograms
03	sign design - overview
04	sign design - graphic design details
05	sign construction - section
06	sign construction - plans and sections
07	sign construction - details
08	sign construction - push thru pictogram
09	general notes

Sign No. 9
Pedestrian - Major Directional

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign:
sheet name: Sign No. 9 - Major Directional
title sheet and drawing list
scale: as noted

sheet number: 01

University of Victoria

core colours

clear anodized coating
application: sign structure

PANTONE 185 C
application:
pinstrip, arrows

PANTONE 426 C
application: text,
crest - monochromatic

PANTEONE 7541 C
application: background

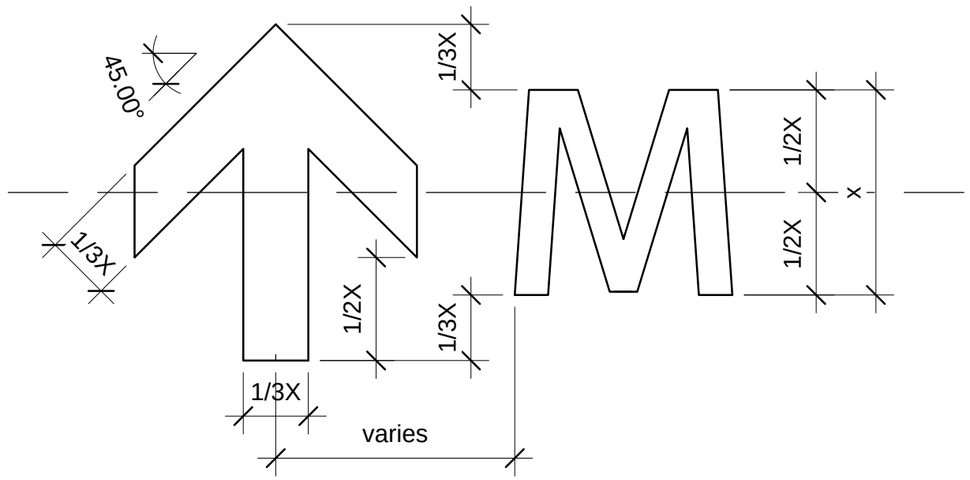
gary oak motif - digital file is to be delivered by University of Victoria

samples of typeface family

Myriad Pro Semi Bold

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
1234567890

arrow style and arrow size in relation to text height



University of Victoria Logo, horizontal standard

University of Victoria

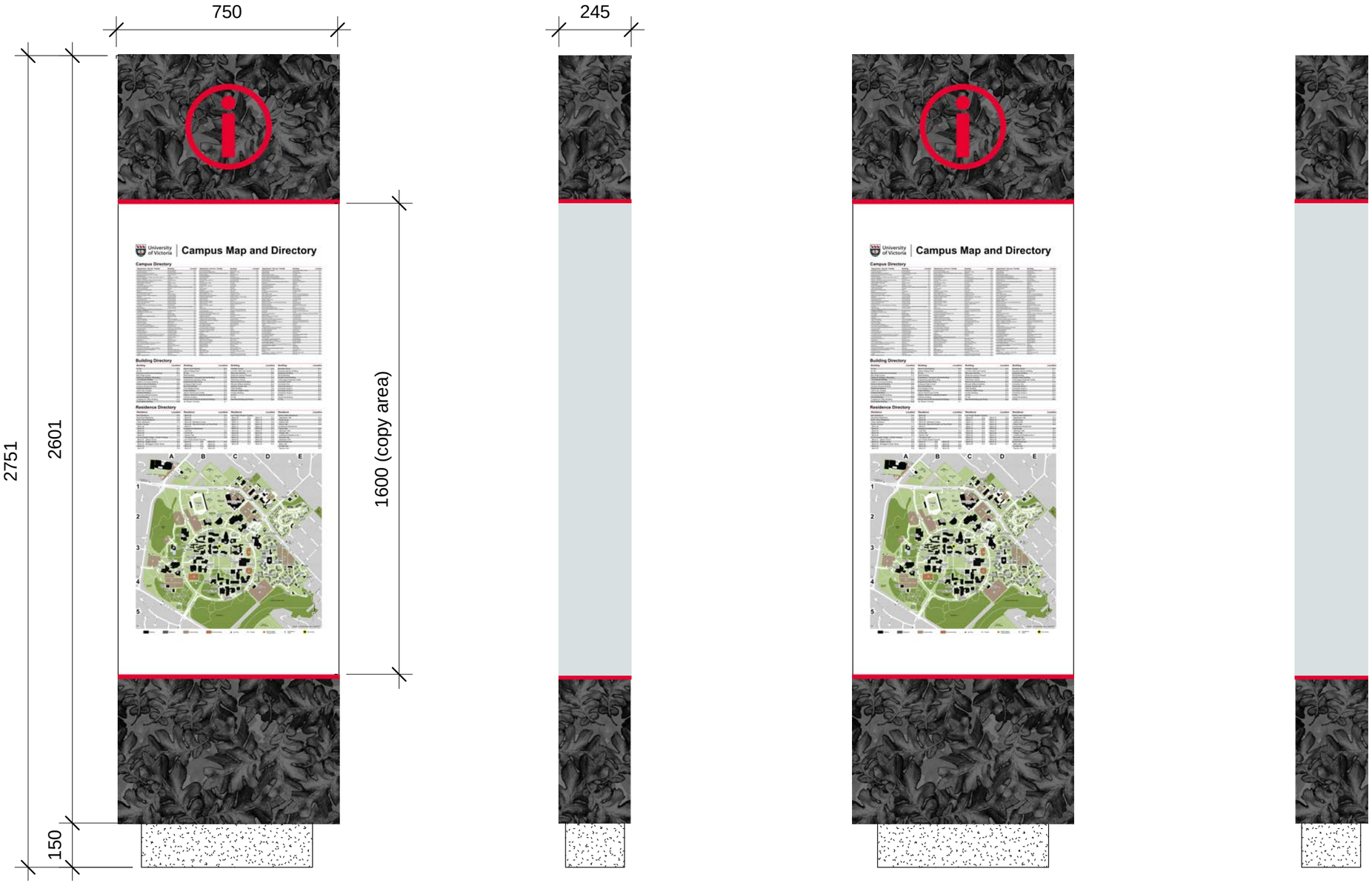
University of Victoria

full colour

reverse monochromatic - shown against background for clarity

project:	Campus Wayfinding	sign:	Sign No. 9 - Major Directional	sheet number:	02
number:	FM 09-8567	sheet name:	typography, colours and pictograms		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria



General Note:
Where applicable, provide 6.4mm thick aluminum spacer under aluminum sign panels to make up for acrylic panel thickness
see also detail 3/9-07

back **side** **front** **side** **scale 1:15**

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

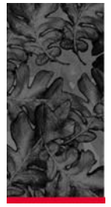
sign: Sign No. 9 - Major Directional
sheet name: sign design - overview
scale: as noted

sheet number: 03

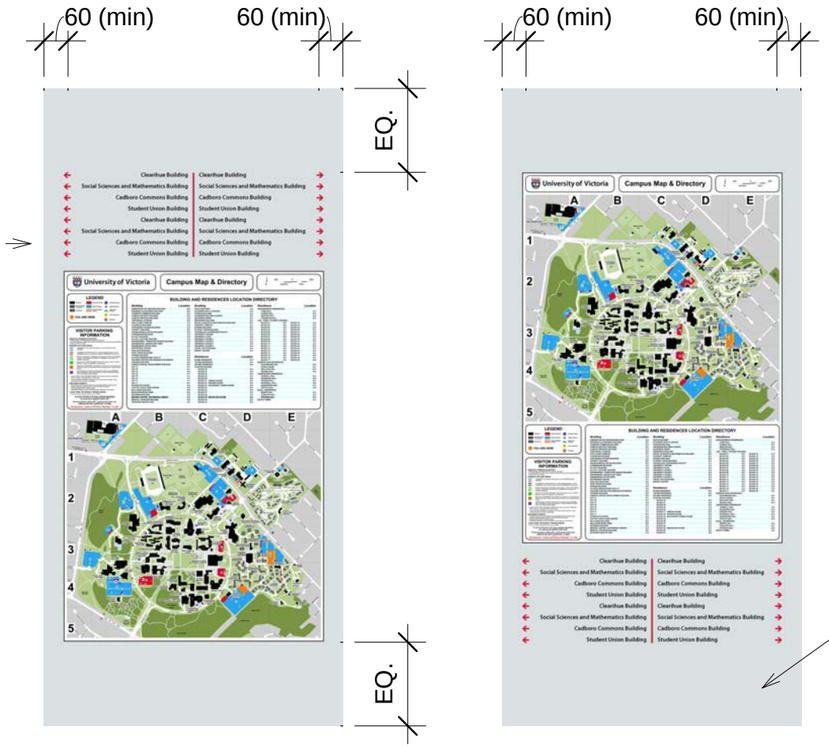
University of Victoria

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 283 mm x 744 mm x 3.2 mm

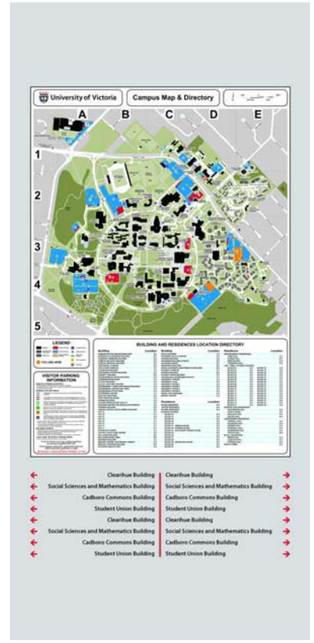
Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 270 mm x 506 mm x 3.2 mm



Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. 19mm thick acrylic push-thru pictogram - see dwg 08 for details. Aluminum panel size: 744 mm x 506 mm x 6.4 mm



Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. For aluminum panel size see sign construction drawings



Non-glare clear acrylic:
Plaskolite OPTIX Abrasion Resistant Non-Glare or equivalent.
Clear acrylic (pictograms):
Plaskolite OPTIX, Chemcast GP or equivalent

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

2nd surface prints:
CAV-50 reverse print - i/w/i (2nd surface)
Overlaminate: 3M 8914, Avery DOL 6060 or equivalent (first surface)

1) Vinyl to be printed on, installed as per manufacturer's recommendations.
2) Use compatible UV inks and overlaminates as recommended by manufacturer
3) Where applicable wrap vinyl and overlaminate over the edges of the alu. panel.
4) All panels to be mechanically festened to substrate.
5) Directory map shown for reference only. directory map with all associated texts and pictograms to be provided in digital format by University of Victoria
6) Manufacturer to confirm all dimensions prior to fabrication.
7) Manufacturer to ensure watertightness of panel conenctions.

Refer to Adobe Photoshop files for detailed sample layout

pin strip to be 15 mm wide (typ)

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 270 mm x 506 mm x 3.2 mm

Digitally printed vinyl protected with anti-graffiti, optically clear overlaminate. Aluminum panel size: 744 mm x 506 mm x 6.4 mm

scale 1:15

sides

front

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 9 - Major Directional
sheet name: sign design - graphic design details
scale: as noted

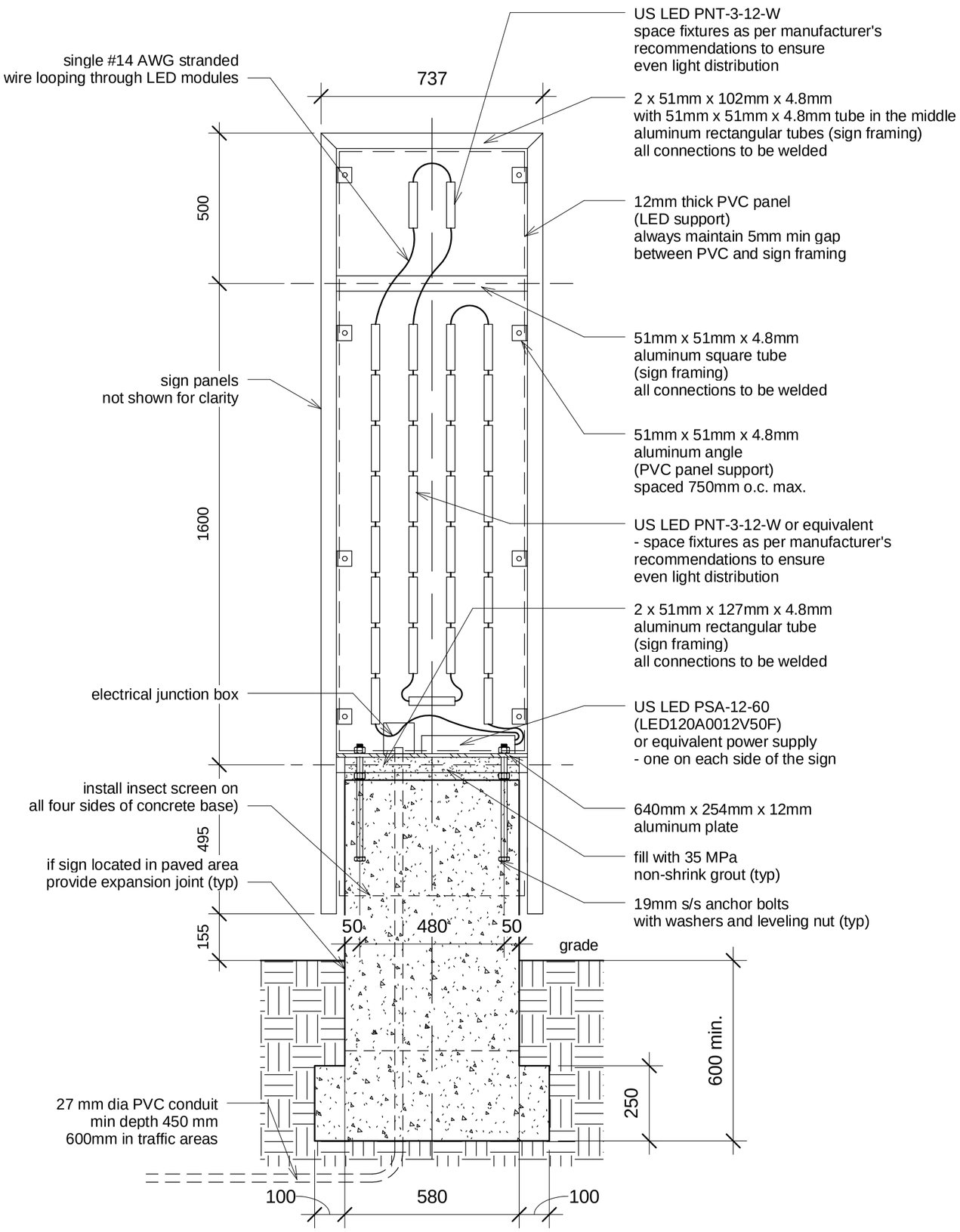
sheet number: 04

University of Victoria

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 9 - Major Directional
sheet name: sign construction - section
scale: as noted

sheet number: 05



1) provide ventilation holes as required
2) US LED PSA-12-60power supply to provide source of power to a max. of 50 MegaBright 12 LED Modules
3) Sign must have a CSA label as an assembly

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

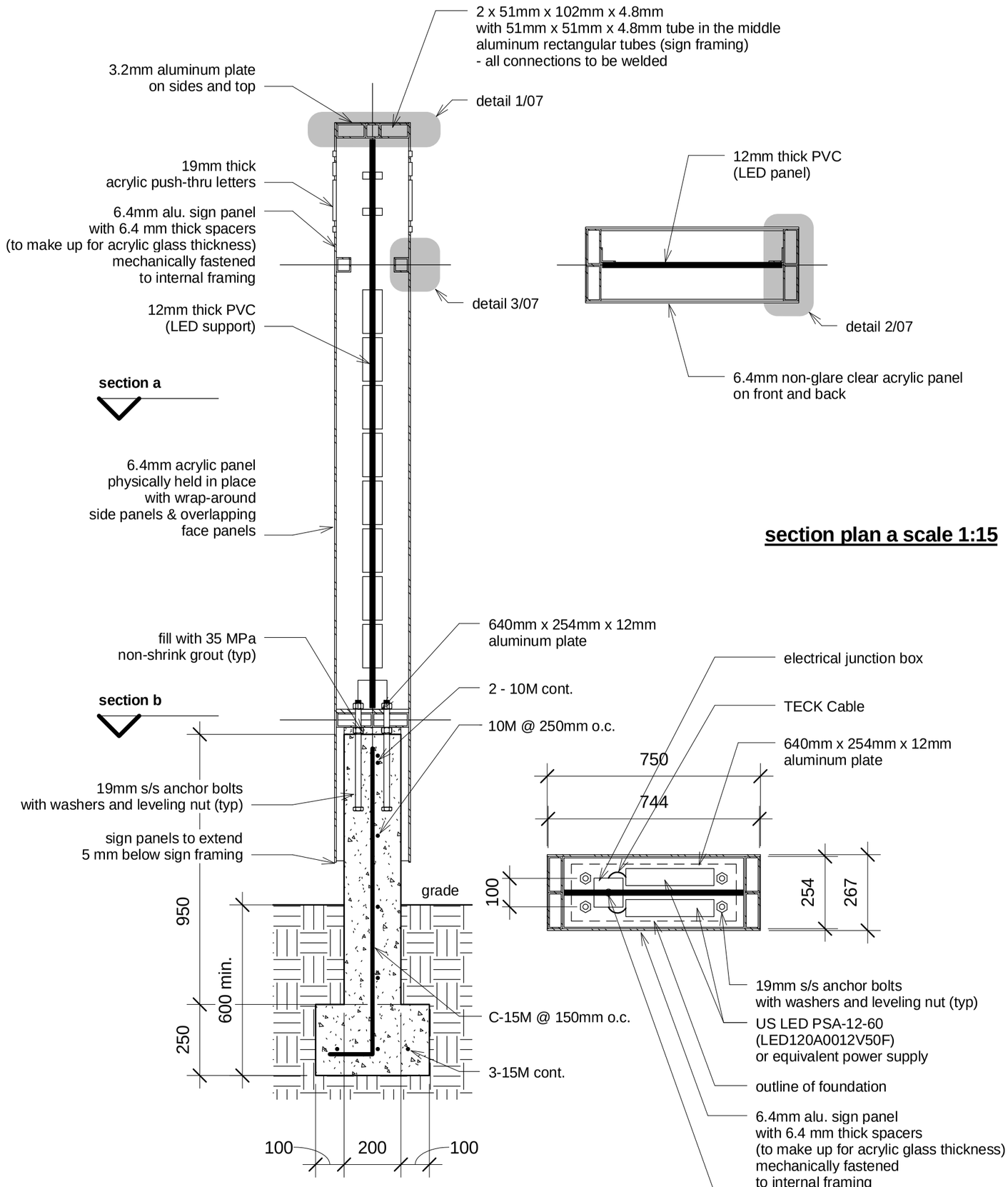
University of Victoria

long section scale 1:15

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 9 - Major Directional
sheet name: sign construction - plans and sections
scale: as noted

sheet number: 06



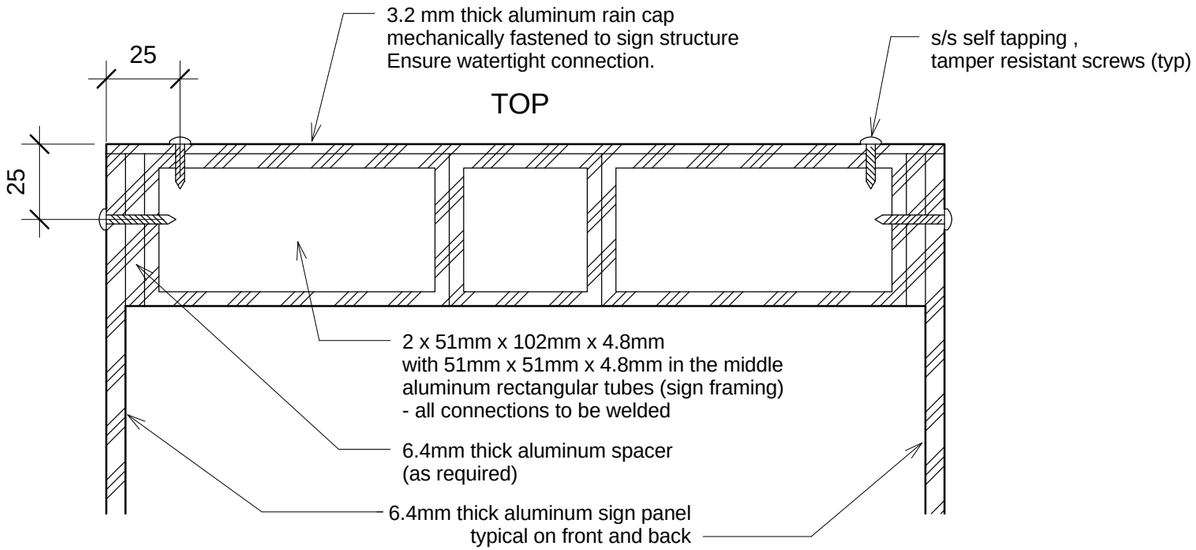
section plan a scale 1:15

cross section scale 1:15

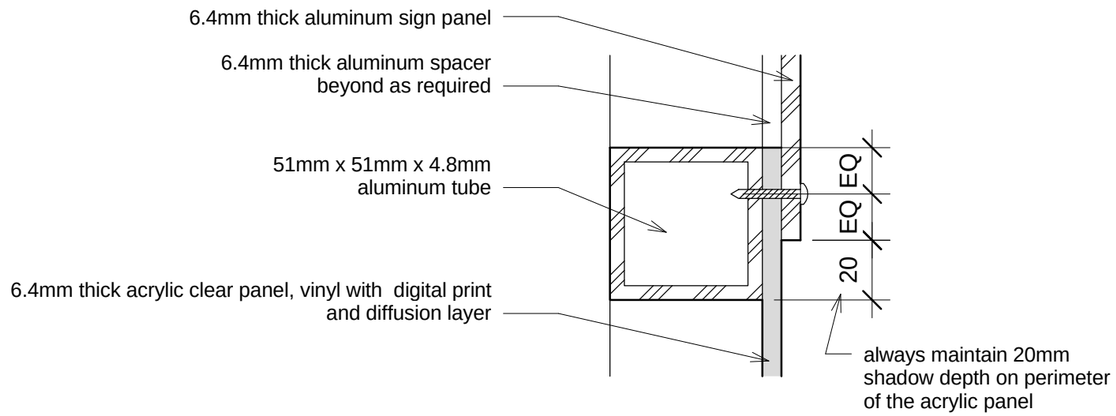
section plan b scale 1:15

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

University of Victoria

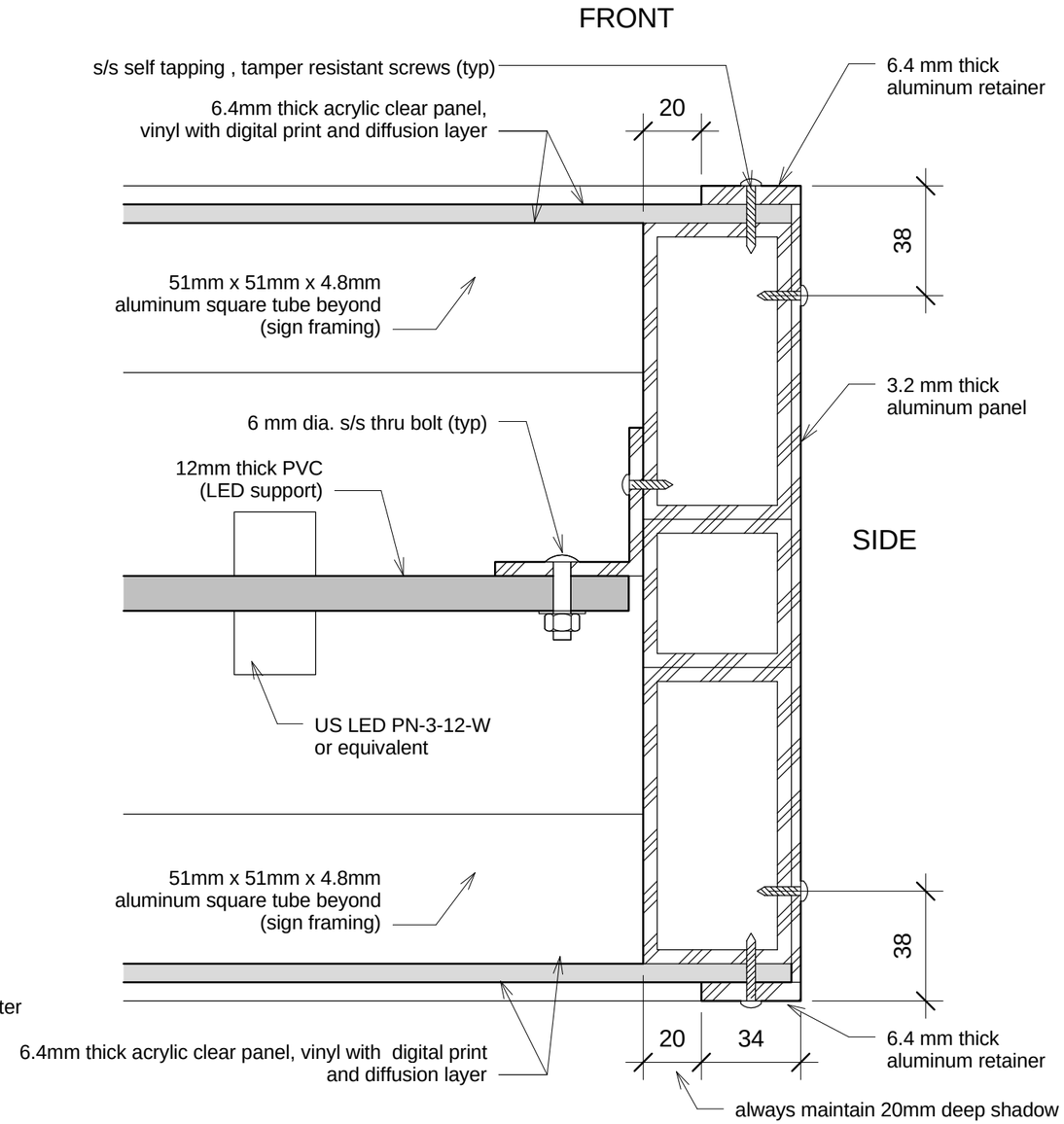


detail 1 scale 1:2



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

detail 3 scale 1:2



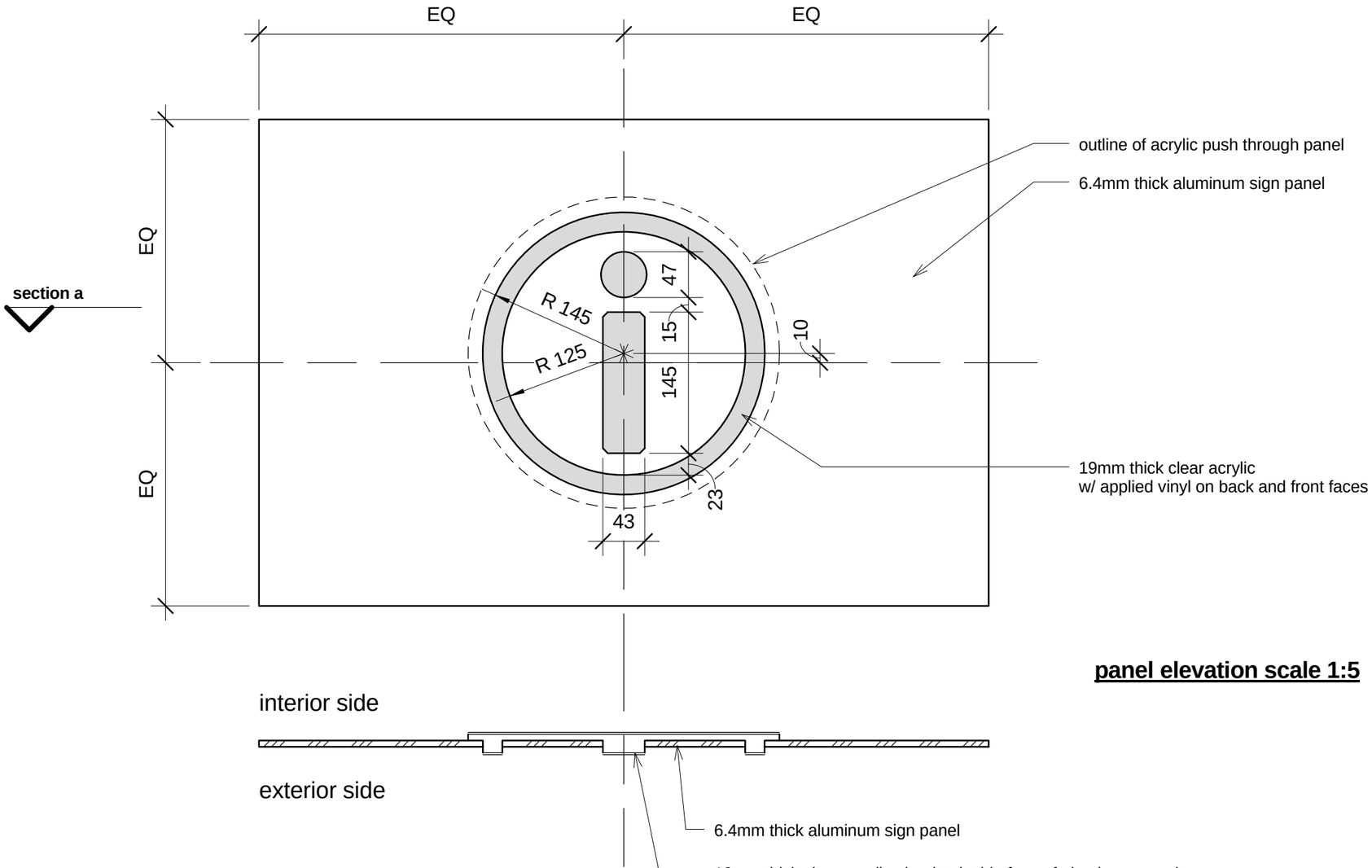
detail 2 scale 1:2

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 9 - Major Directional
sheet name: sign construction - details
scale: as noted

sheet number: 07

University of Victoria



panel elevation scale 1:5

section a scale 1:5

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

project:	Campus Wayfinding	sign:	Sign No. 9 - Major Directional	sheet number:	08
number:	FM 09-8567	sheet name:	sign construction - push thru pictogram		
issue date:	April 1, 2019	scale:	as noted		

University of Victoria

GENERAL NOTES

1. Provide self adhesive sign ID stickers. ID's should correspond with ID's shown on location plan
Form and placement of stickers on signs is to be coordinated with University of Victoria
2. Fasteners:
foundation (anchor bolts):
bolts: Fastenal part #47349 (3/4" s/s threaded)
washers: Fastenal part #71027 (3/4" s/s wahers)
nuts: Fastenal part #70717 (3/4" s/s nuts)
panels:
security screws panel attachment: Fastenal part #BS0160024SSH200 (10-24 x 3/4" button head security screw)
3. Whenever anchor bolts are cut, contractor to ensure cut surfaces (terminated coating)
are protected against rusting.
4. Manufacturer to verify all diemnsions 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.
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.
2. Provide 24 hours advance notice of each required field review. Field reviews shall be scheduled
to be carried out during normal business hours unless special arrangements are made with the Structural Engineer.
3. The work to be reviewed shall be generally complete.

CONCRETE AND REINFORCING STEEL
1. Concrete work shall conform to CAN/CSA-A23.1, CAN/CSA -A23.2, CAN/CSA -A23.3 and
referenced documents.
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.

STRUCTURAL NOTES (cont)

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. Unless 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.
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 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.
Anchor bolts to be secured with "Pentagon" security nuts.

ELECTRICAL NOTES

1. Signs must be provided with CSA label
2. LED modules, power supplies, cable, wire and junction box must be integral with signs
3. All electrical installations to be done in accordance with the Canadian Electrical Code
and as reccomended by the LED lighting manufacturer.
4. Run 2#8 +GND conductors in 27mm PVC conduit from sign to existing campus
exterior lighting pole standard. Intercept existing underground conduit, install an
H20 rated flush junction box with bolt-on cover and splice into exterior lighting circuit.
4. The sign manufacturer shall provide an electrical shop drawings indicating
input power requirements and a schematic wiring diagram for the sign.

project: Campus Wayfinding
number: FM 09-8567
issue date: April 1, 2019

sign: Sign No. 9 - Major Directional
sheet name: general notes
scale: as noted

sheet number: 09

University of Victoria