



Heritage Committee
City of Brantford
100 Wellington Square
Brantford ON, N3T 5R7

Re: Heritage Application (73 George St.)

To whom this may concern:

Wilfrid Laurier University is proposing to remove the two existing post signs in front of 73 George St. (Carnegie Building) and install a new “Laurier Landmark Sign”. The purpose of the new sign is to increase the visual presence of the university and create easy wayfinding for student and visitors. The reason this location was selected is because it is the address of the Brantford campus, was Laurier’s first campus building and is the location of our Welcome Centre where we welcome new and potential students for the first time.

The proposed ground sign does not affect or alter the existing historical façade, and the materials were carefully selected to compliment the historical context of the building. The base of the sign is concrete to match the existing landscape and the top panel is transparent tempered glass to allow for a less obstructing view that still allows the historical characteristics of the building to still be seen through it. The letters and leaf on the face will be a solid acrylic with an illuminated edge. The temperature of the LED lighting will match the interior to eliminate any contrast.

I have attached the construction documents to this application which includes images and site plan.

We look forward to your review of this application and hope we have provided you with the adequate information to make your decision. If you have any questions or concerns regarding this application, please do not hesitate to contact me.

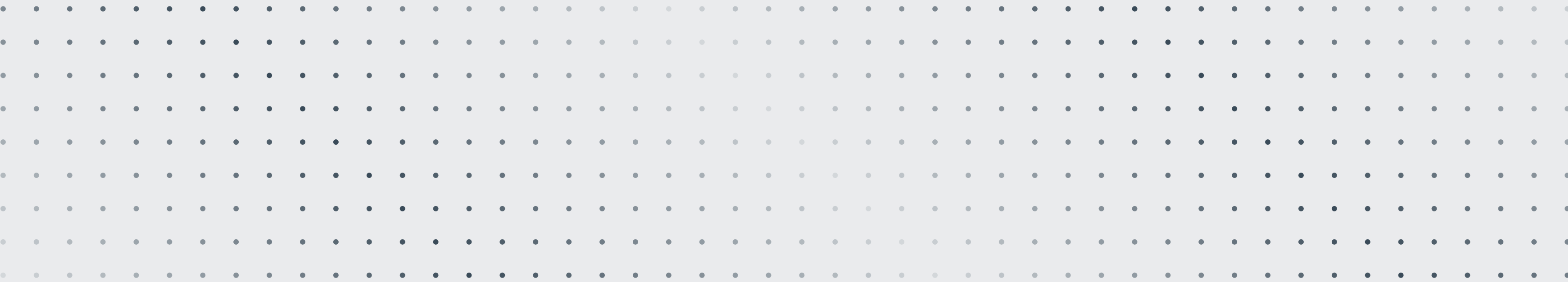
Sincerely,

Jillian Holmes
Project Manager (Capital Projects)
Wilfrid Laurier University

Wilfrid Laurier University
Carnegie Pylon
Request for Quote (RFQ)

THE CYGNUS DESIGN GROUP INC
303 – 145 Front Street East, Toronto, ON M5A 1E3

DATE
28 October 2020



INSTRUCTIONS TO BIDDERS

Terms & Specifications

1.0 TERMS & DESCRIPTIONS

The Project: Carnegie Pylon

The Client: Wilfrid Laurier University

The Consultant: The Cygnus Design Group Inc.

2.0 ACKNOWLEDGMENT

The accompanying drawings and specifications describe the requirements and the design intent for the Project outlined herein. By engaging in the Project, the Sign Contractor acknowledges that they have read and understood the specifications outlined and will comply accordingly. The Sign Contractor will inform the Consultant and the Client of any discrepancies or questions with the specifications prior to commencing with construction of signs and graphics.

3.0 SCOPE OF WORK FOR BIDDING

The Client is looking for a fixed unit price, for the work identified in the drawing package. The Sign Contractor should base their total price on the supplied drawings. The tender price is to cover all related work, including:

- Survey of site conditions;
- Careful coordination and placement of digital files and layouts;
- Typesetting of all sign messages for all locations;
- Supply of shop drawings, colour and finish samples, full size mock-ups and proofs for approval by the Consultant and the Client;
- Design and engineering of signs and their attachment to existing surfaces;
- Construction and installation of signs and graphics, including any lifts or equipment required to complete the installation;
- Include for traffic control and lane closures if required;
- Electrical permits.
- Connection to existing power;
- Coordination of installation with the Consultant, the Client, and the Client's other consultants;
- Provision of proof of liability insurance;
- Provision of regional work safety certification requirements (ex: Worksafe)

4.0 PROCESS

Prior to proceeding with the construction of signs and graphics, the Sign Contractor agrees to complete these steps in the listed order:

4.1 TENDER REVIEW

The Sign Contractor will review and verify all documentation provided in this package and additional accompanying packages supplied by the Consultant. By submitting a cost estimate, the Sign Contractor verifies the accuracy and thoroughness of their review.

4.2 SITE EXAMINATION

Prior to engaging in the Project, the Sign Contractor agrees to perform a comprehensive site visit to examine all conditions and confirm sign sizes, materials, and mounting techniques depicted in this package are appropriate before manufacture. The Sign Contractor will provide immediate written acknowledgment to the Consultant of any conflicts noted during the site visit and will, following written acknowledgment, be responsible for changes to the proposed signage and graphics to accommodate site conditions.

4.4 PRODUCT DATA

The Sign Contractor will provide manufacturer's catalogue sheets, brochures, literature, performance charts and diagrams for any materials and products used.

4.5 GRAPHICS LAYOUT

The Sign Contractor will provide all typesetting not provided as supplied artwork that is required for the manufacture of finished signs. The Sign Contractor must provide PDF proofs of typical sign messages at no less than 1:10 scale. Proofs shall be submitted to the Consultant for review prior to fabrication. The Sign Contractor is responsible for typesetting the following (at minimum):

- All sign locations;
- Any changes to match actual site measurements;
- Any changes requested by the Consultant post-tender;
- Rotation of maps to match viewer's orientation.

4.6 SHOP DRAWINGS

The drawings in this document are issued for quotes only and are not for construction. The Sign Contractor must provide shop drawings for all manufactured items and graphic layouts for review and approval prior to commencing construction. Adjustments made to shop drawings by the Consultant are not intended to change the contract price. If adjustments affect the value of work, a written request should be issued to the Consultant prior to proceeding with construction of signs and graphics. Any deviations in the shop drawings to the specifications provided herein should be highlighted and clearly acknowledged by the Sign Contractor.

The Sign Contractor shall show complete details of the construction of all graphics or sign types in this package, including the sign construction, complete assembly, materials, anchoring, descriptions, finishing, and graphics portions of each sign. Shop drawings should be prepared at no less than 1:10 scale. Shop drawings for graphics to be produced using Adobe Illustrator. AutoCad shop drawings for graphics are not acceptable. AutoCad shop drawings for signage structure and fabrication are acceptable. Use metric dimensions throughout. Clearly identify all shop drawings by title and number in reference to the respective drawings provided herein.

4.7 FINISH SAMPLES

The Sign Contractor is to submit finish samples (three sets) to the Consultant for review. Samples should be 300 × 300mm minimum on specified substrates. Samples should be labeled to clearly indicate origin and intended use in the work. Samples will be delivered prepaid to Consultant's business address. Samples will be provided for all finishes and colours (including paint 'draw downs') for review and approval prior to construction of signs and graphics. Samples of environmental graphic should be provided as cropped portions of the artwork at full scale.

4.8 MOCK-UPS

Mock-ups for sign types requested in this package will be provided for review. Fabricated mock-ups should be complete with all fastenings, accessories, lettering, and symbols to fully indicate the quality of finishes, materials, fabrication, graphics, and workmanship for the project. Mock-ups may be used as part of the overall delivery of signage inventory if approved by the Consultant. Mock-ups of graphics must be submitted at 1:1.

4.9 REVIEW & ACKNOWLEDGMENT

The following review, acknowledgment must be provided by the Consultant to the Sign Contractor prior to the Sign Contractor commencing construction of any signs or graphics. Consultant to review for conformance to design. The Contractor retains responsibility for completeness and correctness of shop drawings, samples, and mock-ups.

- Review and acknowledgement of Sign Contractor supplied shop drawings;
- Review and acknowledgement of Sign Contractor supplied samples;
- Review and acknowledgement of Sign Contractor supplied mock-ups.

Failure of on-site work to match approved samples will be cause for rejection of work. The Sign Contractor will be required to expedite replacement of all rejected work and make good in compliance with the Client's approved signage installation schedule at no additional cost to the Client.

5.0 FABRICATION

The Sign Contractor agrees to fabricate sign assemblies according to drawing requirements, shop drawings, and to match approved mock-ups. All fabrication and welding shall be to CSA standards and as detailed. Edges of all substrates shall be eased to remove imperfections and prevent sharp edges. All sheet metal components shall be made in shop, power brake formed with clean sharp bends and even square corners. All joints, corners, miters, etc shall be accurately machined, filed and fitted, and rigidly framed together at joints and contact points. Concealed fasteners should be used whenever possible. All aluminum work shall be performed to the standards and details of the American Architectural Manufacturer's Association (AAMA). Isolate all metals from dissimilar metals and use stainless steel fasteners to ensure there are no galvanic reactions. All painted products to be factory finished. All graphics to be factory finished. All graphics will be shop applied to all applicable sign types including finished, standard sign system blanks.

6.0 SITE PREPARATION & INSTALLATION

6.1 VERIFICATION

The Sign Contractor is required to verify exact location and orientation of signs and graphics on site with the Consultant and/or Client's representative present prior to installation. The Sign Contractor will mark and record specific locations of all sign installations to be installed at a later date.

Prior to installation, The Sign Contractor's installer will inspect the quality of each component and the conditions on which the components are to be installed. The Sign Contractor will notify the Consultant and Client of any defects prior to installation. Installation of signs or graphics will be viewed as confirmation by the Sign Contractor that signs, graphics, and surrounding conditions match shop drawings and are of a suitable quality.

6.2 REMOVAL OF EXISTING SIGNS

The Sign Contractor is responsible for removing two (2) existing signs. The Sign Contractor agrees to make good any surfaces damaged in the removal.

Cygnus	THE CYGNUS DESIGN GROUP INC 303 – 145 Front Street East, Toronto, ON M5A 1E3 416-728-3847 www.cygnus.group	CLIENT Wilfrid Laurier University	DRAWING TITLE Request for Quote (RFQ)	ISSUANCE	DATE	© THE CYGNUS DESIGN GROUP INC. These drawings involve confidential proprietary rights of The Cygnus Design Group Inc and all design, manufacturing, reproductions, use and sale rights regarding the same are expressly reserved. These drawings are submitted under a confidential relationship for a specified purpose and the recipient, by accepting this document, assumes custody and agrees (a) that this document will not be copied or reproduced in whole or in part, nor its contents revealed in any manner or to any person except to meet the purpose for which it was delivered and (b) that any special features peculiar to this design will not be incorporated into other projects.	PAGE 2 of 17
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6.3 INSTALLATION

The Sign Contractor is obligated to install signs and graphics plumb, square, free from warp, and straight to correct orientation in accordance with per-approved shop drawings and recommendations of component manufacturer. The Sign Contractor will secure all work adequately and accurately to structure with concealed non-corrosive fastenings, using backing, or anchor straps as required, or welded. All signs shall be installed using anchors appropriate for site conditions and as detailed on the reviewed shop drawings. Review of actual site conditions is the Sign Contractor’s expense. Final location of all anchors in ceiling and structural members shall be reviewed and approved by the Consultant and/or Client prior to drilling and installing any anchors. The Sign Contractor will inspect all sign locations during construction to ensure all blocking and anchors required for fastening and mounting of signs have been correctly installed. The Sign Contractor will verify that substrates are stable and capable of supporting the weight of items covered under this section.

7.0 POST-INSTALLATION

7.1 SITE CONDITIONS

The Sign Contractor is responsible to leave the site in a clean condition with any debris leftover from signage construction and installation removed. Where remediation to preexisting conditions is required after installation The Sign Contractor will coordinate with the Client to ensure that materials and methods used align with the standards established elsewhere.

7.2 DEFICIENCY REVIEW

Following installation, the Consultant will perform a site visit to document deficiencies with the work installed and will submit a list of deficiencies to the Sign Contractor. The Sign Contractor will be responsible for removal and replacement of defective and non-conforming work.

7.3 MANUALS & DOCUMENTATION

Upon completion of the Project, the Sign Contractor will provide the Consultant and Client with operations and maintenance information, including manuals for all signs, and manuals for operation of any LED, lighting, and computer-controlled equipment in hard-copy or digital formats as applicable. The Sign Contractor will also provide as-constructed fabrication drawings (updated shop drawings) of all manufactured items showing complete assemblies, colour, and finishing details.

8.0 CONTRACTOR GENERAL RESPONSIBILITIES

8.2 PERMITS & SIGNAGE BYLAWS

Permits to be by Client.

8.3 ENGINEERING

The Sign Contractor is responsible for structural and electrical engineering including a professional engineering stamp required for the province or territory ensuring structural integrity. All fastening systems and fasteners shall be designed and engineered to meet all building code requirements, including but not limited to seismic and 1:50 climatic loads with appropriate safety factors if required. Supports, anchors and attachment hardware to be designed to 4× static load. Components over 1.5m tall or weighing over 50kg shall be reviewed by a structural engineer with the final approved shop drawings stamped and provided to the Consultant.

The Sign Contractor shall coordinate with the Client to obtain the most current geo-technical reports available (if any) and undertake to prepare identified unit locations as specified therein.

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		PROJECT Carnegie Pylon

8.4 SUBCONTRACTORS

All subcontractors should be identified by the Sign Contractor in the tender submission. The Sign Contractor is prohibited from engaging subcontractors that are not acknowledged and approved during quote review.

8.5 ADMINISTRATIVE REQUIREMENTS

The Sign Contractor will coordinate all construction activities as required to ensure efficient and orderly installation of each part of the work and as follows:

Where installation of one part of the work is dependent on installation of other components, either before or after its own installation schedule, coordinate construction activities in the sequence required to obtain the best results. Where availability of space is limited, coordinate installation of different components to assure maximum accessibility for required maintenance, service & repair. Make adequate provisions to accommodate items scheduled for later installation under separate contract or by the Client’s own forces.

9.0 QUALITY ASSURANCE

Qualifications may be requested by the Consultant. If requested by the Consultant, The Sign Contractor will provide access to the manufacturing site to inspect all processes and methods employed in the construction and assembly of signs and graphics. The Consultant has the right to reject any and all components that in their opinion are not in strict conformance with the contract documents, reviewed shop drawings, approved mock-ups and samples.

9.1 DELIVERY, STORAGE AND HANDLING

The Sign Contractor agrees to handle products in accordance with manufacturer’s instructions; store in manufacturer’s original packaging until ready for installation, and protect from impacts and abrasion during storage.

9.2 QUALITY OF MATERIALS, FINISHES & INSTALLATION

Materials and finishes must be selected to be durable and meet regular commercial cleaning requirements. The quality of fit, finish, and mounting must stand up to a busy, high-use environment. All materials should be chosen to ensure integrity of signs and graphics for a minimum of ten years.

Materials and products must have been successfully implemented in at least three major facilities in Canada. Documentation including photographs, technical specifications and owner contact information for previous installations must be provided upon request.

9.3 LETTERS, NUMBERS, SYMBOLS

All letters, numbers, symbols and other graphic devices on sign and graphic faces indicated on the drawings to be precisely formed, incised forms with no flaws, burrs or cross cuts and ready for prime and finish as specified in the contract drawings. Corners of stencils and letters must be precise to electronic artwork with-in tolerance of 0.5mm or will be rejected. Router-cut letters may be rejected if not precise.

Only artwork supplied by the Consultant may be used on the project unless approved by the Consultant. The Sign Contractor is responsible for all computer platform conversions.

9.4 COLOURS

Colours are as noted on the drawings provided herein. Each colour used, regardless of medium, method of application, material or fabrication / manufacturing techniques shall match exactly throughout the project.

9.5 REPRODUCTION METHODS

All water jet cut and laser cut letters, numbers, symbols and other graphics on sign faces indicated on the drawings to be precisely formed incised or dimensional profile cut copy, with no flaws, burrs or cross cuts and ready for prime and paint finish or final aluminum finishing as noted in the drawings. Routed letterforms with rounded corners or rounded interior counter profiles are not acceptable. All lettering and symbols must match the profile of the supplied artwork.

Digital print graphics should be produced to a minimum 300 dpi resolution for raster graphics. Printed materials must be prepared to the manufacturers specifications for opaque application and adhesion to sign blanks or site conditions.

9.6 VINYL

Vinyl printed with digital graphics must be laminated with UV & water resistant, matte protective laminate. Vinyl must have an aggressive adhesive to withstand UV, temperature and moisture conditions. Large vinyl and applications using tiling shall have seamless clean joints. Joints should not cut through text or other delicate graphics.

Vinyl should be specified as premium cast 2-mil pressure sensitive film prepared and applied to the manufacturer’s specifications for high tac adhesion in interior conditions and exterior low temperature conditions to painted surfaces and glazing. Vinyl sheeting shall be matte finish with matte clear coat to comply with ADA standards. Glossy self-adhesive films will not be accepted. Vinyl sheeting shall be defect free and finished graphics shall be bubble and wrinkle free. Finished graphics shall resist casual removal or tampering. Use automated cutting or processing systems; photo-mechanical (pantograph-guided router with rigid masters) or computer-driven blade. Hand cut vinyl graphics will not be accepted. All work to be even, straight, and true.

9.8 FONTS

Match typeface selection exactly with that specified. The fonts used should be “OpenType” (OTF) format for Macintosh and/or DOS/Windows platforms. No substitute fonts are to be used. Fonts will not be supplied, but may be purchased from their respective license holders. Samples or mock-ups produced using a substitute font will be rejected.

9.9 SUBSTRATES

All acrylic and metal substrates shall match the drawings specified by the Consultant. The Sign Contractor shall seek a review and approval from the Consultant and Client if recommending alternative manufacturer or fabrication methods.

All aluminum sheets shall be of suitable alloy and temper for use noted on the drawings. All exposed surfaces, including edges, shall be painted with finish as noted. Unpainted aluminum to be clear anodized finish. Material and finishes are to be free of all defects.

Exposed edges and corners to be eased or lightly beveled so they are not sharp to touch. Cut panels to be free of scratches or imperfections. Premium pressure sensitive film to be prepared and applied to the manufacturer’s specifications for high tack adhesion.

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9.10 FASTENERS

All fasteners shall be stainless steel, unless otherwise noted, and selected for each application separately.

All bolts shall have lock washers or nuts with integral anti-loosening feature. Screws shall be self-drilling, self-tapping, head configuration to suit application.

9.11 FINISHES

All paint products shall be from one manufacturer. Colours are as noted on the drawings. Each colour used, regardless of medium, method of application or material or fabrication /manufacturing techniques shall match exactly throughout. Where products or colour matching systems are proposed other than those specified in this document, samples and data sheets must be provided to the consultant for approval. The Sign Contractor is responsible to comply with manufacturer's installation instructions, including substrate preparation, coating thickness, and curing time between coats. Paint to be spray applied finish to ensure even texture. Finishes to aluminum faces should applied in 2-part polyurethane paint system. Spray apply finish to ensure even texture.

The Sign Contractor will provide finishes of opaque sign panel substrates, printed and vinyl graphics (gloss levels) meeting requirements of eggshell, matte or other non-glare finish between 11 and 19 degrees on a 60 degree gloss meter for the following finishes: Eggshell and velvet finish paints and matte finish inks, and other non-glossy self adhesive vinyl film. Unacceptable finishes include gloss or semi-gloss finish paints and inks unless otherwise specified on the drawings

Test all sign finishes using actual production samples using sign manufacturer's own glossimeter to verify compliance with gloss level requirements. The Consultant may witness tests and the Sign Contractor will provide complete written test results when requested.

9.12 SEALANT

Base building sealants are to be used. The Sign Contractor should coordinate with site General Contractor. Sealant selection shall be as specified for base building applications.

10.0 WARRANTY

All items shall be guaranteed by The Sign Contractor for a period of one (1) year from installation against any defects in the design, materials, finish, function and workmanship, and that any defects will be made good by the Sign Contractor at no additional cost to the Client or the Consultant.

11.0 COPYRIGHT

Consultant retains the copyright for electronic drawing files made available to the Sign Contractor. Use of the supplied electronic drawing files for any subsequent project is strictly forbidden without the express written consent of the Consultant. Any use by the Sign Contractor of Consultant supplied drawings, images, or photographs of the resulting work after installation, including photographs published to the Sign Contractor's website or publications shall clearly label "Cygnus Design Group" as the design consultant.

12.0 PAYMENT

The Sign Contractor will enter into a direct supply and installation agreement with the Client. Invoices will be submitted and processed in accordance with the Client's standard terms and conditions for payment.

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GRAPHIC STANDARDS

Colour Standards



Colour 1, Black

MP19962 Rodin Patina Metallic



Colour 2, Purple

PANTONE 2685 C

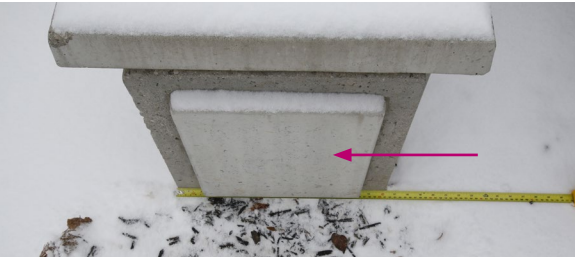
MP26171 Groovy Blue Metallic



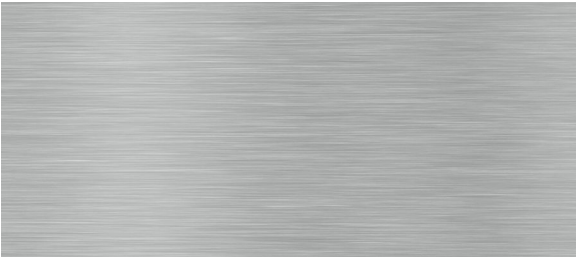
Colour 3, White

Matthews Paint with pearl additive effect, non-colour shifting, small particle size.

Materials & Finishes



Precast concrete finish to match existing used at Carnegie plaza shown in above photo.



Stainless steel trim, brushed #4.

Ed’s Concrete Products Ltd.
1266 Erie Street
Stratford, ON N4Z 0A1
519-271-6590
info@edsconcrete.com

Brand Assets



Existing Condition



Similar existing sign north of stair entrance to be removed by Sign Contractor.
Make-good of concrete by others.

Existing sign south of stair entrance to be removed by Sign Contractor.
Make-good of concrete by others.

Proposed Condition



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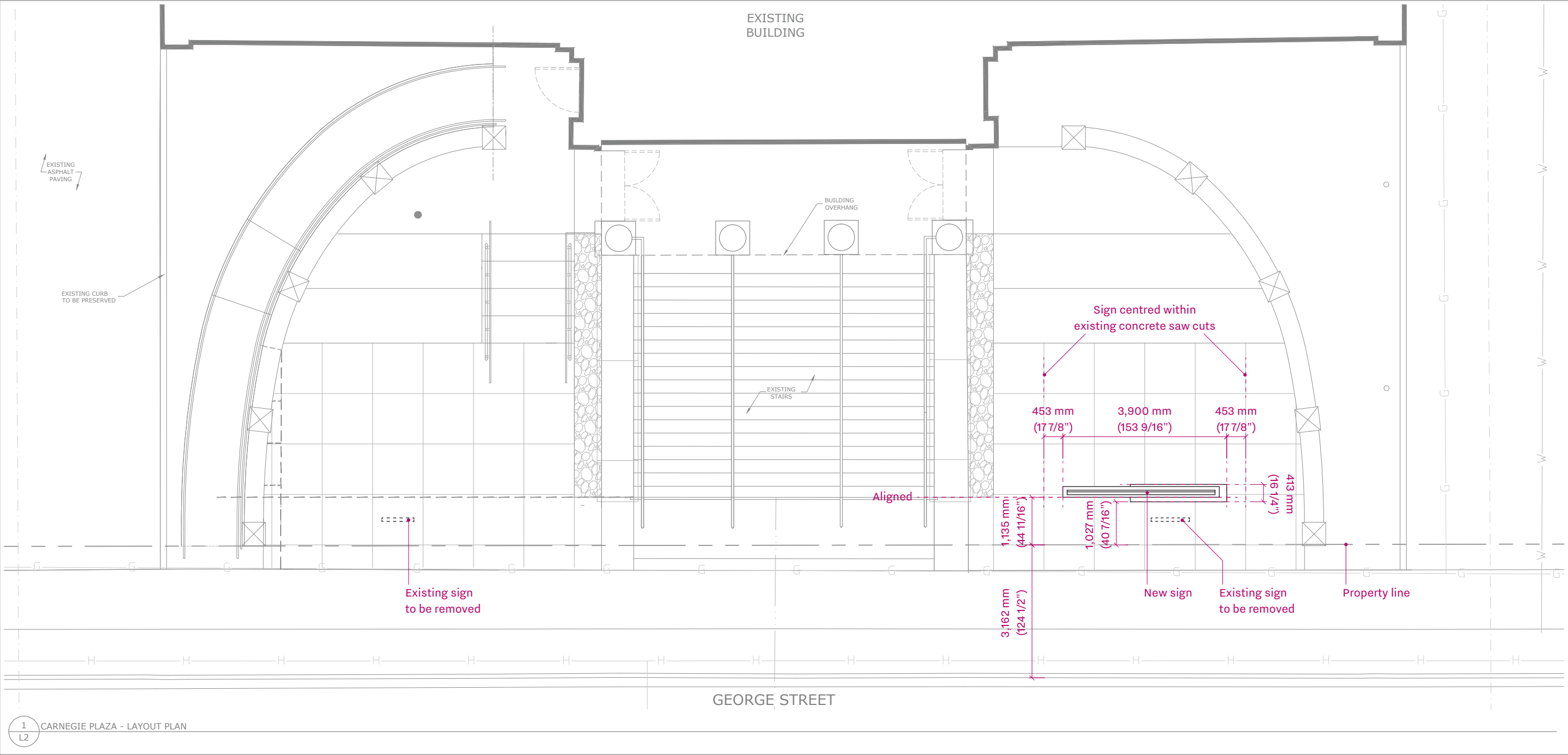
Proposed Condition



Proposed Condition



SITE PLAN



Wilfrid Laurier University
Carnegie Building Front Plaza
Scale 1:100



- A

Stainless Steel Trim
Laminate finished 1.5mm thick stainless steel edge trim on perimeter of letter - allow for 10mm front edgelit exposure of solid LED illuminated acrylic.
- B

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw
- C

Vinyl
first surface vinyl (colour to be confirmed)
- D

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
- E

Solid Acrylic Illuminated Letters
32mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threads for counter sunk flat haead release bolts in back of letter
- E.1

Solid Acrylic Illuminated Letters
16mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threads post bolts in back of letter
- F

Opaque Face
1.5mm thick stainless steel laminated to LED illuminated acrylic Opaque face (Paint Black, additionally paint bottom edge of letter black when letter touches box-item S)
- G

Spacer PVC Panel
25mm thick PVC spacer panel
- H

Aluminum Angle
16mm x 25mm x 3mm thick aluminum angle bottom framing-weld
- I

Aluminum Base Plate
20mm thick aluminum base plate with notches to accept letter tabs (removable)
- J

Galvanized Steel Angle
38mm x 41mm x 6mm thick continuous galvanized steel angle -weld
- J.1

Galvanized Steel Angle
25mm x 41mm x 6mm thick continuous galvanized steel angle -weld
- K

Weather Silicon
Weather silicon caulking -provide bead to displace water
- L

Glass Grout
Hiiti hit -HY 70 grout
- M

Shims
Glass shims to suit
- N

Galvanized Steel Shoe Walls
13mm thick galvanized steel glass shoe walls-weld to base plate-confirm with Structural Engineer
- O

Galvanized Steel Base Plate
20mm thick galvanized steel base plate with nelson studs -confirm with Structural Engineer

- P

Poured in Place Concrete Grade Beam
Poured in place concrete grade beam with reinforcing (Finish to match pre-cast concrete panels currently installed on-site, by Ed's Concrete (Stratford Ont.) -confirm with Structural Engineer
- Q

Counter Sunk Stainless Steel Set Screws
4mm dia. stainless steel counter sunk flat head hex set machine screws-tap threads into aluminum bars
- R

Aluminum Angle
23mm x 32mm x 3mm thick aluminum angle removable panel framing - miter weld
- S

Aluminum Cladding
3mm thick aluminum cladding
- S.1

Aluminum Letter Returns
2mm thick aluminum letter returns
- T

Profile Cut Aluminum Letter Form Back
10mm thick profile cut aluminum letter form back with tabs-notch aluminum base plate and weld tab inserts
- U

Stainless Steel Counter Sunk Bolts
10mm dia. stainless steel counter sunk flat head bolts with washer and nuts
- V

Galvanized Steel Angle
23mm x 261mm x 10mm thick (127mm wide) galvanized steel angle upstand -weld
- W

Galvanized Steel Angle
38mm x 75mm x 10mm thick (151mm wide) galvanized steel angle -weld
- X

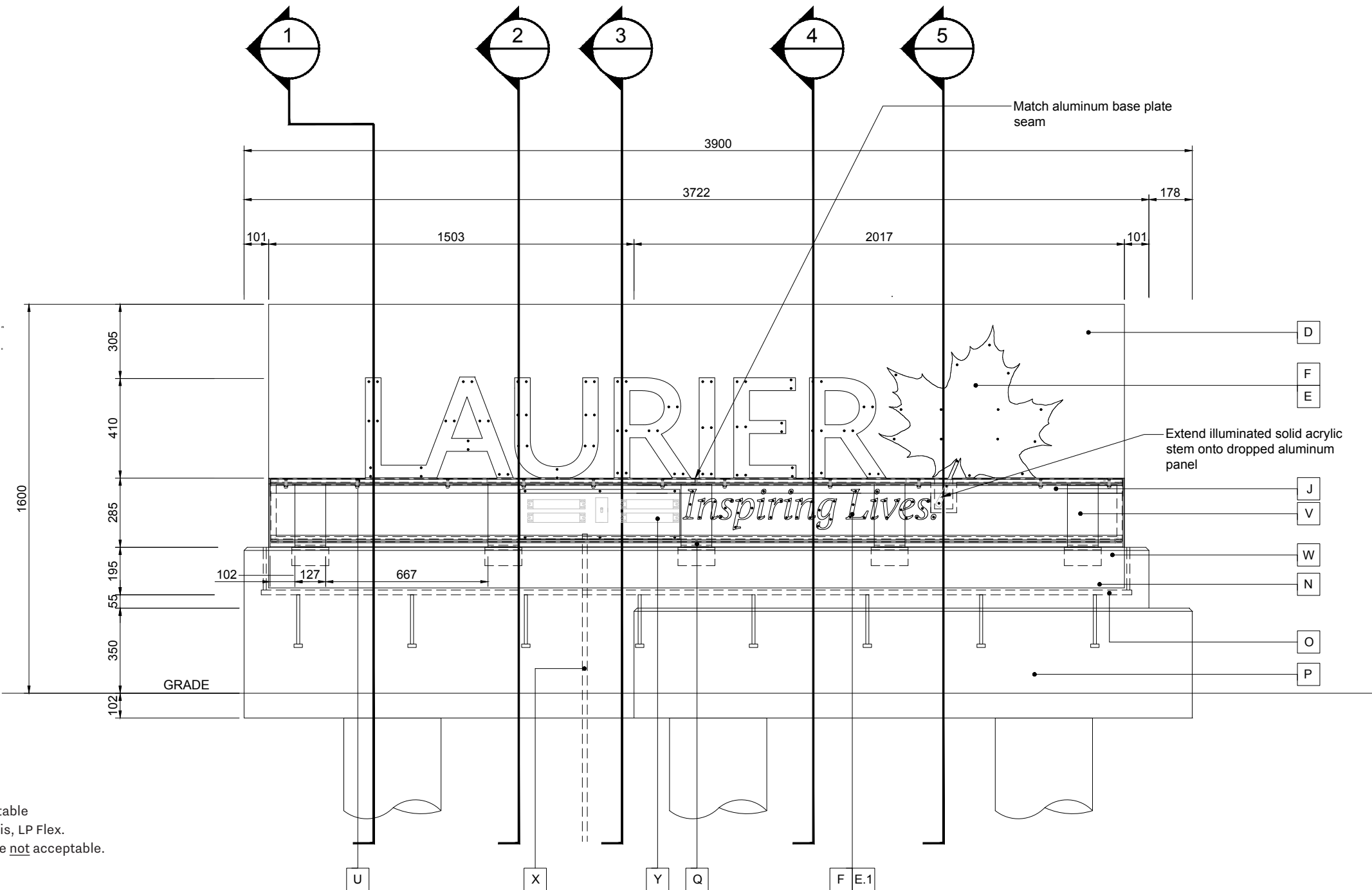
U/G Electrical Conduit
16mm dia. U/G electrical conduit
- Y

Electrical Components & Electrical Pan
1.5mm thick aluminum break form electrical pans with LED drivers and on/off switch
- Z

Aluminum Angle
16mm x 21mm x 3mm aluminum angle

Note:
Solid acrylic LED illuminated letters acceptable
suppliers include: Bitro, Gemini Luxe, Provis, LP Flex.
Channel letters with retainers/trim caps are not acceptable.

Colour temperature to be 3500°K.
To be verified before fabrication.



Front Elevation (Framing)
SCALE: 1:20

- A

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
- B

Solid Acrylic Illuminated Letters
32mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threaded bolts in back of letter
- B.1

Solid Acrylic Illuminated Letters
16mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threaded bolts in back of letter
- C

Profile Cut Aluminum
10mm thick profile cut aluminum letters with tab with a 20mm thick aluminum base plate. Notch and weld aluminum tab
- D

Removable Aluminum Cover
3mm thick aluminum clad cover panel-removable
- E

Galvanized Steel Boot (Channel)
Galvanized steel glass boot (channel) with Nelson studs. Confirm with Structural Engineer.
- F

Concrete Grade Beam
Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
- G

Concrete Pile
Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
- H

LED Drivers
Low voltage LED drivers. Confirm voltage feed.
- I

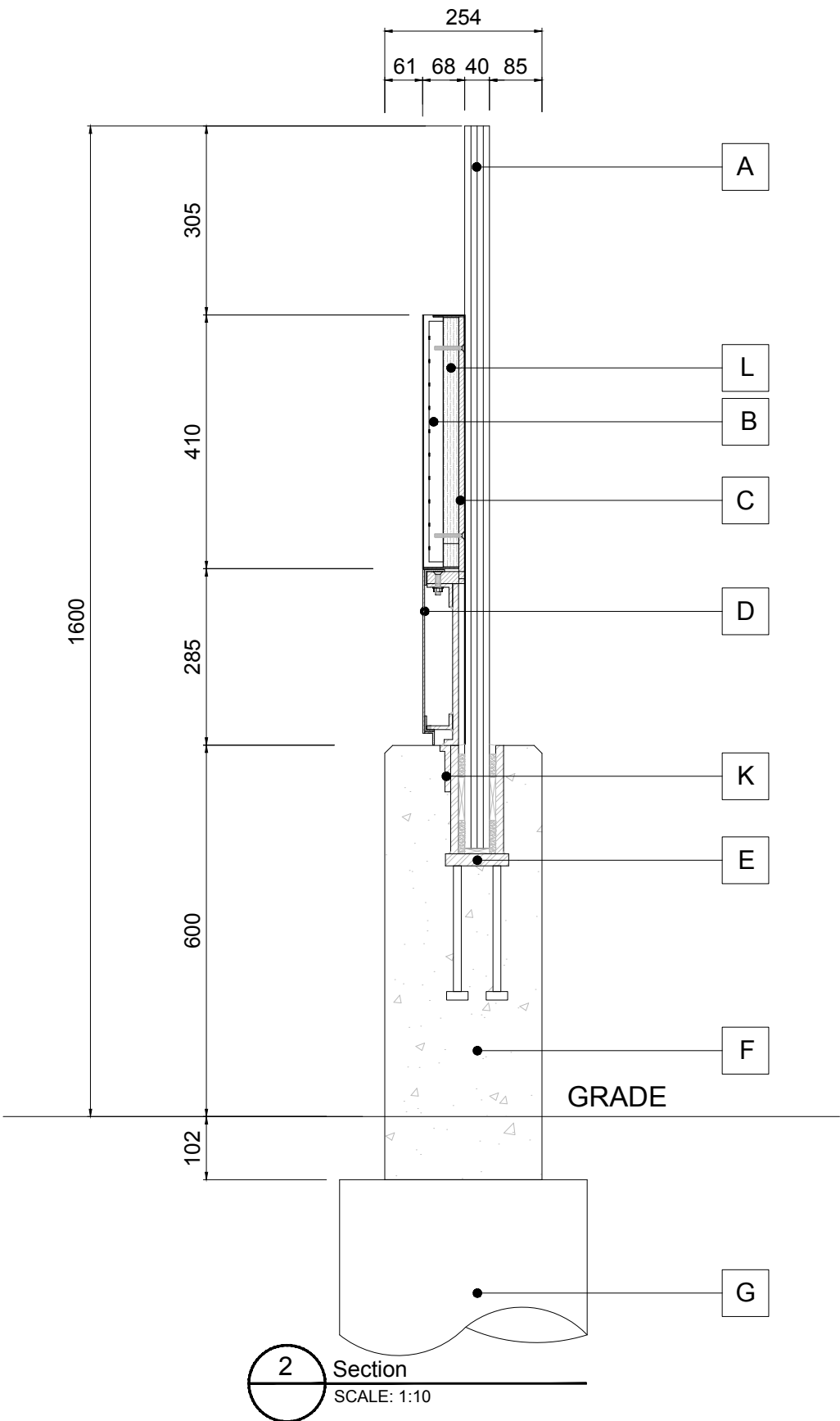
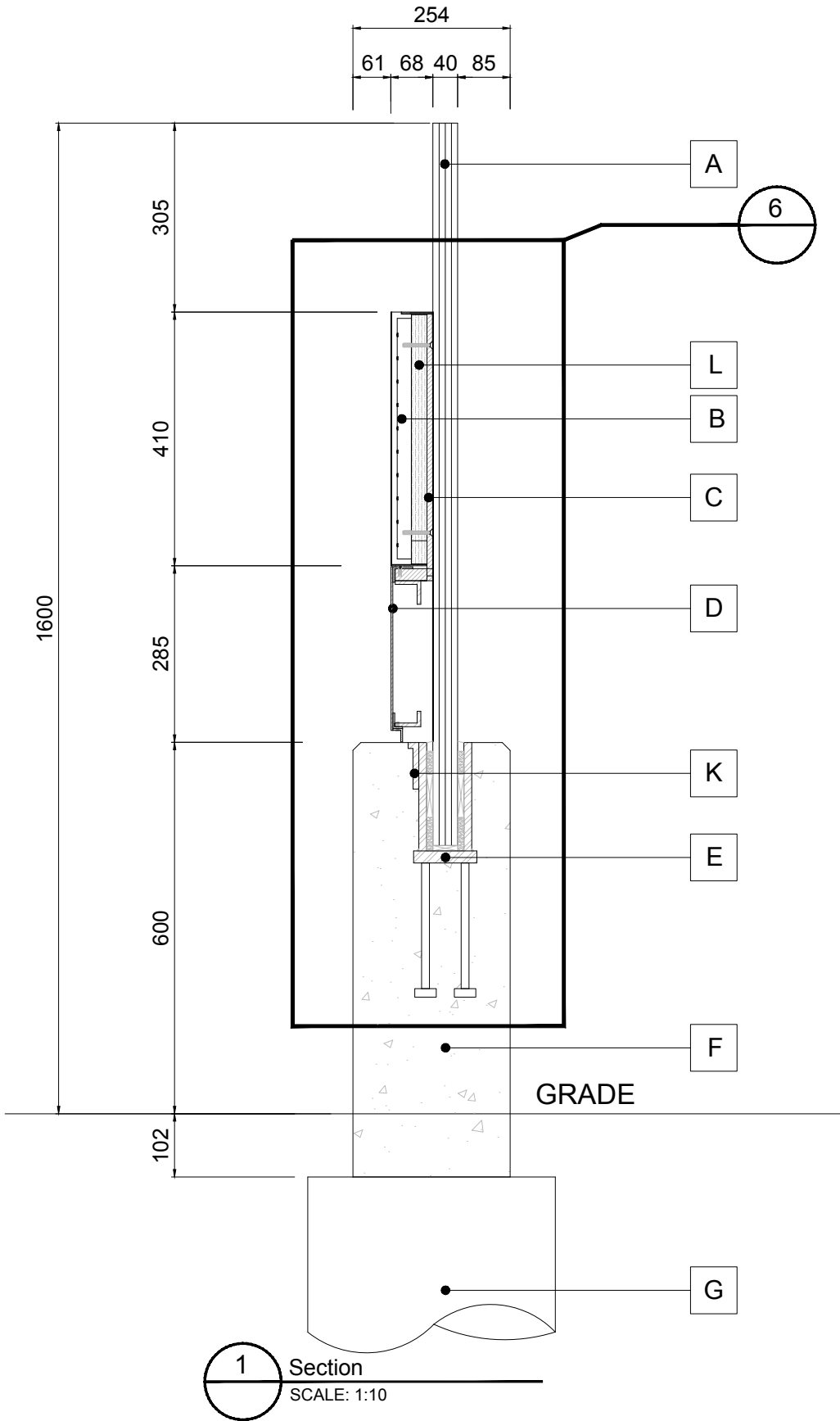
Electrical Conduit
20mm dia. electrical conduit
- J

Galvanized Steel Angle
23mm x 261mm x 10mm thick (127mm wide) galvanized steel angle -weld
- K

Galvanized Steel Angle
17mm x 75mm x 10mm thick (127mm wide) galvanized steel angle -weld
- L

PVC Spacer Panel
25mm thick PVC spacer panel notch at bottom for low voltage electrical lines
- M

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw



- A

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
- B

Solid Acrylic Illuminated Letters
32mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threaded bolts in back of letter
- B.1

Solid Acrylic Illuminated Letters
16mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threaded bolts in back of letter
- C

Profile Cut Aluminum
10mm thick profile cut aluminum letters with tab with a 20mm thick aluminum base plate. Notch and weld aluminum tab
- D

Removable Aluminum Cover
3mm thick aluminum clad cover panel-removable
- E

Galvanized Steel Boot (Channel)
Galvanized steel glass boot (channel) with Nelson studs. Confirm with Structural Engineer.
- F

Concrete Grade Beam
Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
- G

Concrete Pile
Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
- H

LED Drivers
Low voltage LED drivers. Confirm voltage feed.
- I

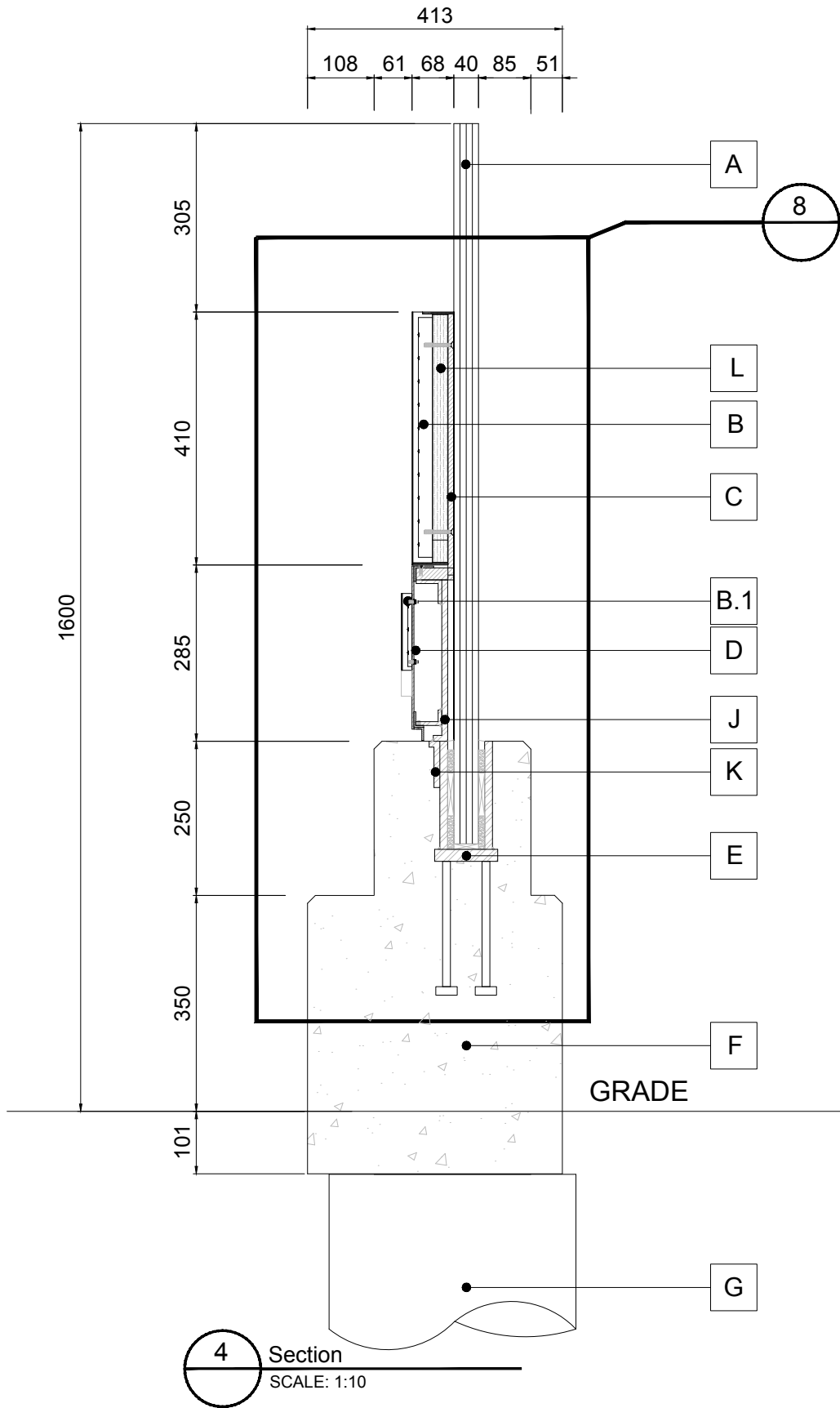
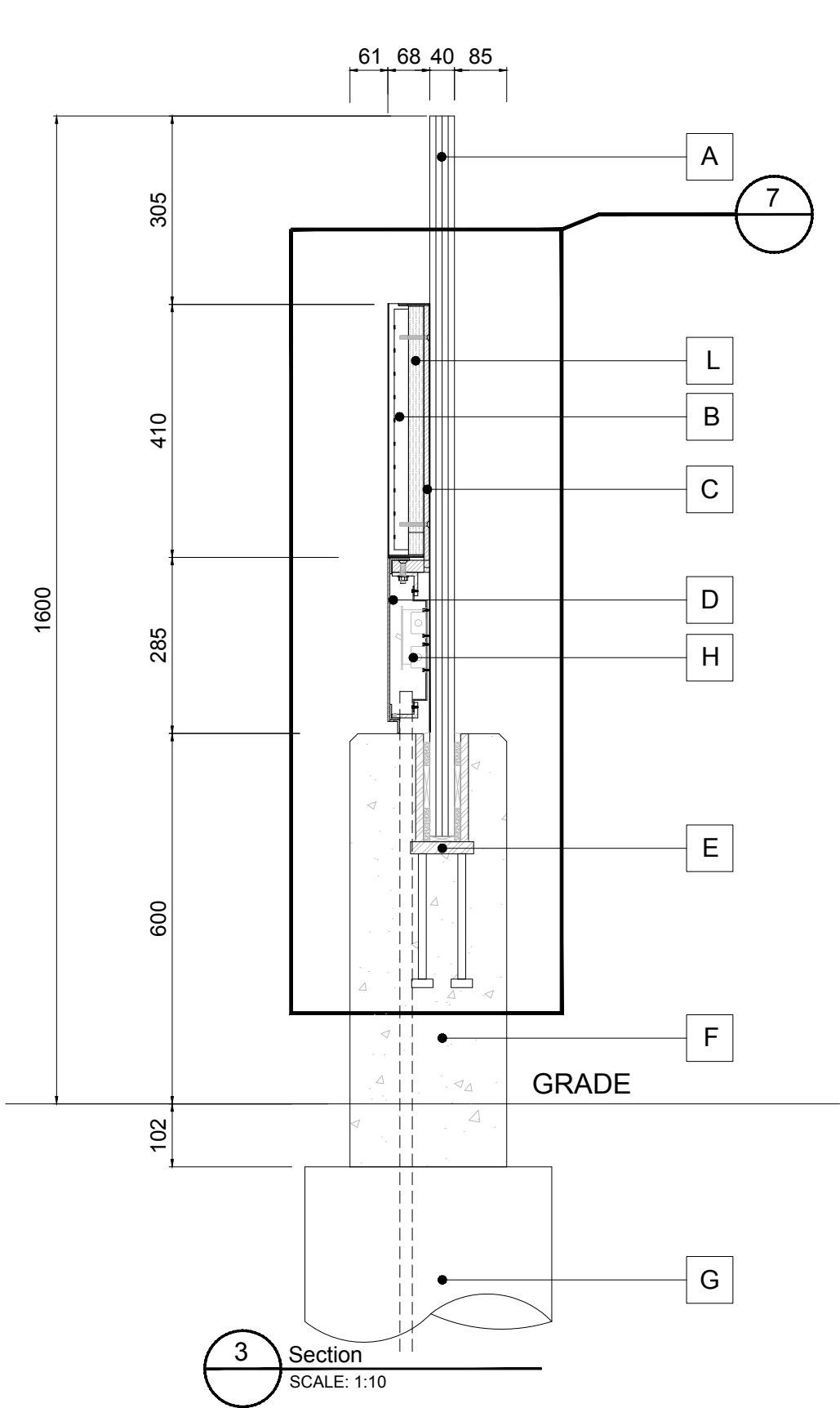
Electrical Conduit
20mm dia. electrical conduit
- J

Galvanized Steel Angle
23mm x 261mm x 10mm thick (127mm wide) galvanized steel angle -weld
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Galvanized Steel Angle
17mm x 75mm x 10mm thick (127mm wide) galvanized steel angle -weld
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PVC Spacer Panel
25mm thick PVC spacer panel notch at bottom for low voltage electrical lines
- M

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw



- A

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
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Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
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Concrete Pile
Cast in place concrete grade beam with re-enforcing. Confirm with Structural Engineer.
- H

LED Drivers
Low voltage LED drivers. Confirm voltage feed.
- I

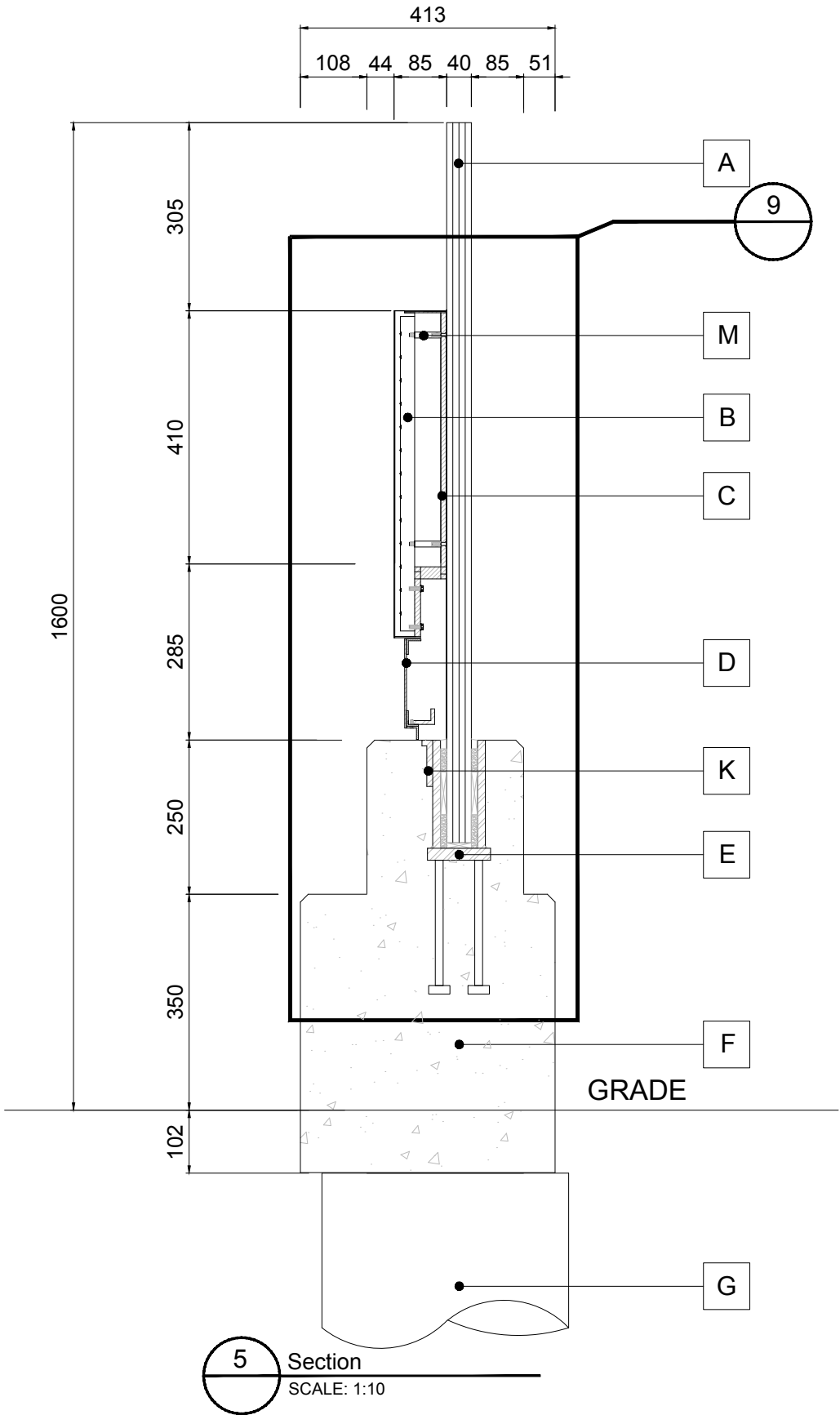
Electrical Conduit
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23mm x 261mm x 10mm thick (127mm wide) galvanized steel angle -weld
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17mm x 75mm x 10mm thick (127mm wide) galvanized steel angle -weld
- L

PVC Spacer Panel
25mm thick PVC spacer panel notch at bottom for low voltage electrical lines
- M

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw



- A

Stainless Steel Trim
Laminate finished 1.5mm thick stainless steel edge trim on perimeter of letter - allow for 10mm front edgelit exposure of solid LED illuminated acrylic.
- B

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw
- C

Vinyl
first surface vinyl (colour to be confirmed)
- D

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
- E

Solid Acrylic Illuminated Letters
32mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threads for counter sunk flat haead release bolts in back of letter
- E.1

Solid Acrylic Illuminated Letters
16mm thick solid acrylic LED illuminated letter with 4mm dia. embedded threads post bolts in back of letter
- F

Opaque Face
1.5mm thick stainless steel laminated to LED illuminated acrylic Opaque face (Paint Black, additionally paint bottom edge of letter black when letter touches box-item S)
- G

Spacer PVC Panel
25mm thick PVC spacer panel
- H

Aluminum Angle
16mm x 25mm x 3mm thick aluminum angle bottom framing-weld
- I

Aluminum Base Plate
20mm thick aluminum base plate with notches to accept letter tabs (removable)
- J

Galvanized Steel Angle
38mm x 41mm x 6mm thick continuous galvanized steel angle -weld
- J.1

Galvanized Steel Angle
25mm x 41mm x 6mm thick continuous galvanized steel angle -weld
- K

Weather Silicon
Weather silicon caulking -provide bead to displace water
- L

Glass Grout
Hilti hit -HY 70 grout
- M

Shims
Glass shims to suit
- N

Galvanized Steel Shoe Walls
13mm thick galvanized steel glass shoe walls-weld to base plate-confirm with Structural Engineer
- O

Galvanized Steel Base Plate
20mm thick galvanized steel base plate with nelson studs -confirm with Structural Engineer

- P

Poured in Place Concrete Grade Beam
Poured in place concrete grade beam with reinforcing (Finish to match pre-cast concrete panels currently installed on-site, by Ed's Concrete (Stratford Ont.) -confirm with Structural Engineer
- Q

Counter Sunk Stainless Steel Set Screws
4mm dia. stainless steel counter sunk flat head hex set machine screws-tap threads into aluminum bars
- R

Aluminum Angle
23mm x 32mm x 3mm thick aluminum angle removable panel framing - miter weld
- S

Aluminum Cladding
3mm thick aluminum cladding
- S.1

Aluminum Letter Returns
2mm thick aluminum letter returns
- T

Profile Cut Aluminum Letter Form Back
10mm thick profile cut aluminum letter form back with tabs-notch aluminum base plate and weld tab inserts
- U

Stainless Steel Counter Sunk Bolts
10mm dia. stainless steel counter sunk flat head bolts with washer and nuts
- V

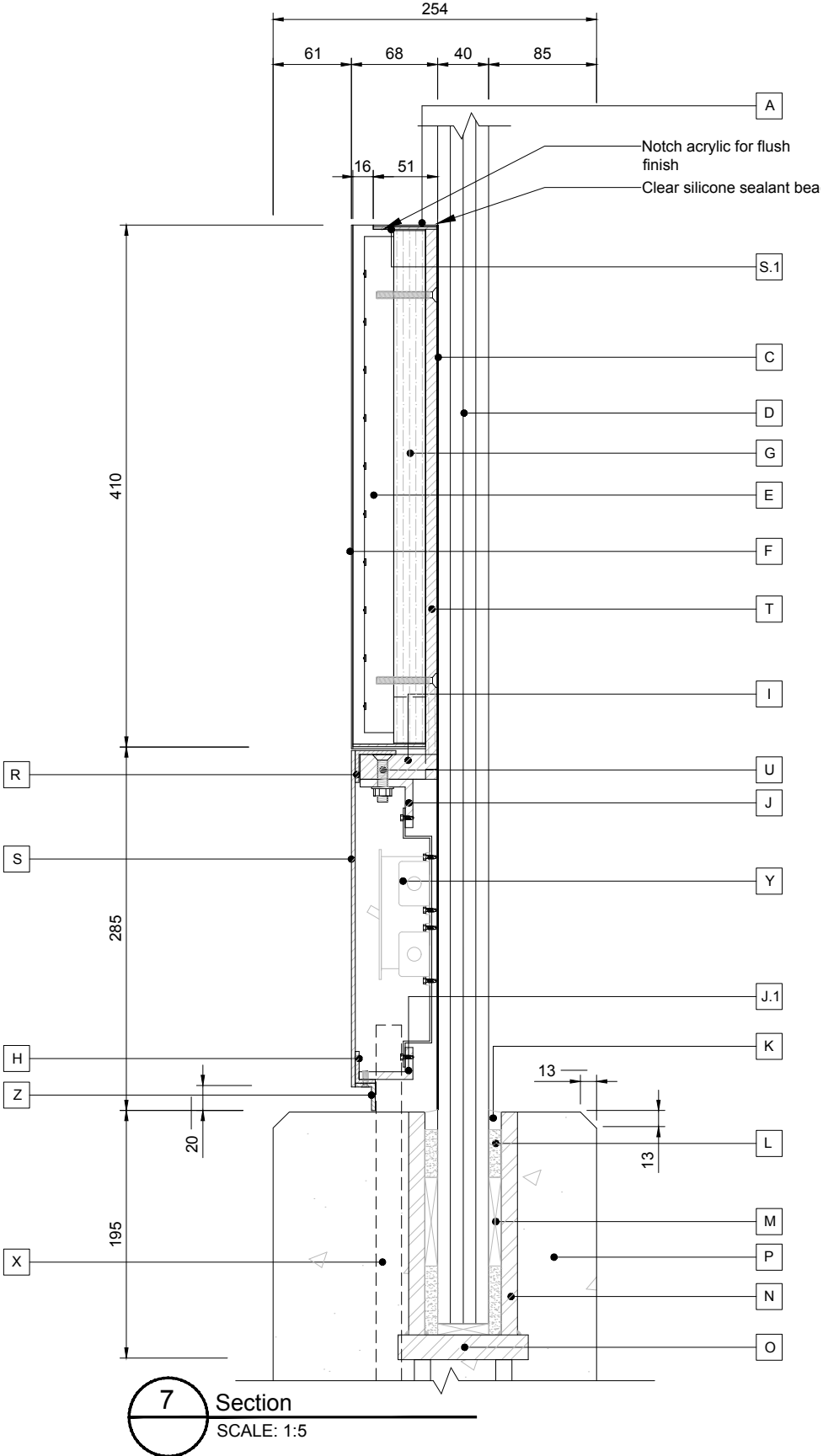
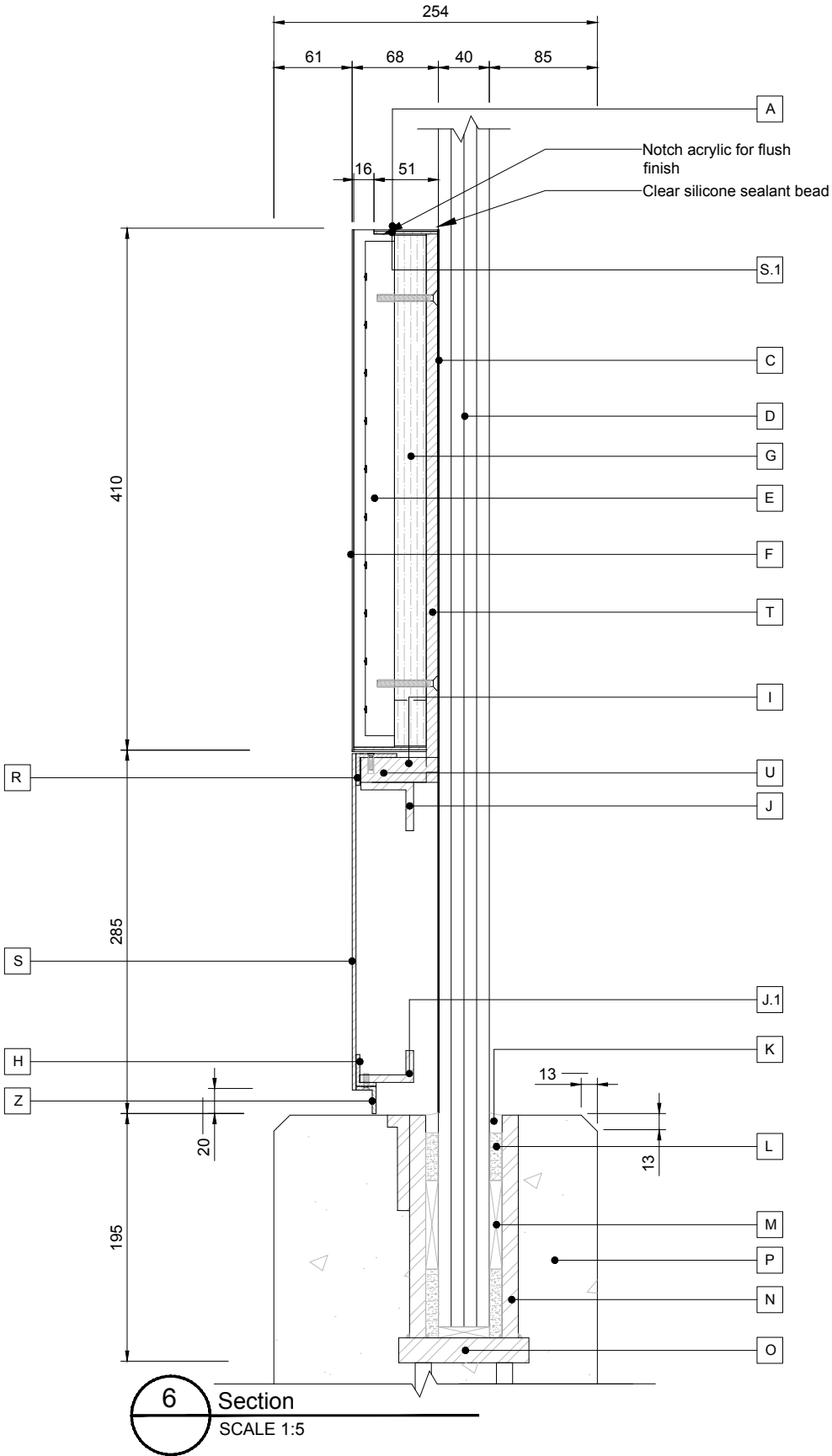
Galvanized Steel Angle
23mm x 261mm x 10mm thick (127mm wide) galvanized steel angle upstand -weld
- W

Galvanized Steel Angle
38mm x 75mm x 10mm thick (151mm wide) galvanized steel angle -weld
- X

U/G Electrical Conduit
16mm dia. U/G electrical conduit
- Y

Electrical Components & Electrical Pan
1.5mm thick aluminum break form electrical pans with LED drivers and on/off switch
- Z

Aluminum Angle
16mm x 21mm x 3mm aluminum angle



- A

Stainless Steel Trim
Laminate finished 1.5mm thick stainless steel edge trim on perimeter of letter - allow for 10mm front edgelit exposure of solid LED illuminated acrylic.
- B

Male / Female Stand Off
Male / Female stainless steel standoff -6mm dia. threads-use 6mm dia. stainless steel counter sunk flat head hex machine screw
- C

Vinyl
first surface vinyl (colour to be confirmed)
- D

Laminated Tempered Glass
4- layers of laminated 10mm thick low iron optically clear glass. Confirm with Structural Engineer.
- E

Solid Acrylic Illuminated Letters
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- G

Spacer PVC Panel
25mm thick PVC spacer panel
- H

Aluminum Angle
16mm x 25mm x 3mm thick aluminum angle bottom framing-weld
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Weather silicon caulking -provide bead to displace water
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13mm thick galvanized steel glass shoe walls-weld to base plate-confirm with Structural Engineer
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20mm thick galvanized steel base plate with nelson studs -confirm with Structural Engineer

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Poured in Place Concrete Grade Beam
Poured in place concrete grade beam with reinforcing (Finish to match pre-cast concrete panels currently installed on-site, by Ed's Concrete (Stratford Ont.) -confirm with Structural Engineer
- Q

Counter Sunk Stainless Steel Set Screws
4mm dia. stainless steel counter sunk flat head hex set machine screws-tap threads into aluminum bars
- R

Aluminum Angle
23mm x 32mm x 3mm thick aluminum angle removable panel framing - miter weld
- S

Aluminum Cladding
3mm thick aluminum cladding
- S.1

Aluminum Letter Returns
2mm thick aluminum letter returns
- T

Profile Cut Aluminum Letter Form Back
10mm thick profile cut aluminum letter form back with tabs-notch aluminum base plate and weld tab inserts
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Stainless Steel Counter Sunk Bolts
10mm dia. stainless steel counter sunk flat head bolts with washer and nuts
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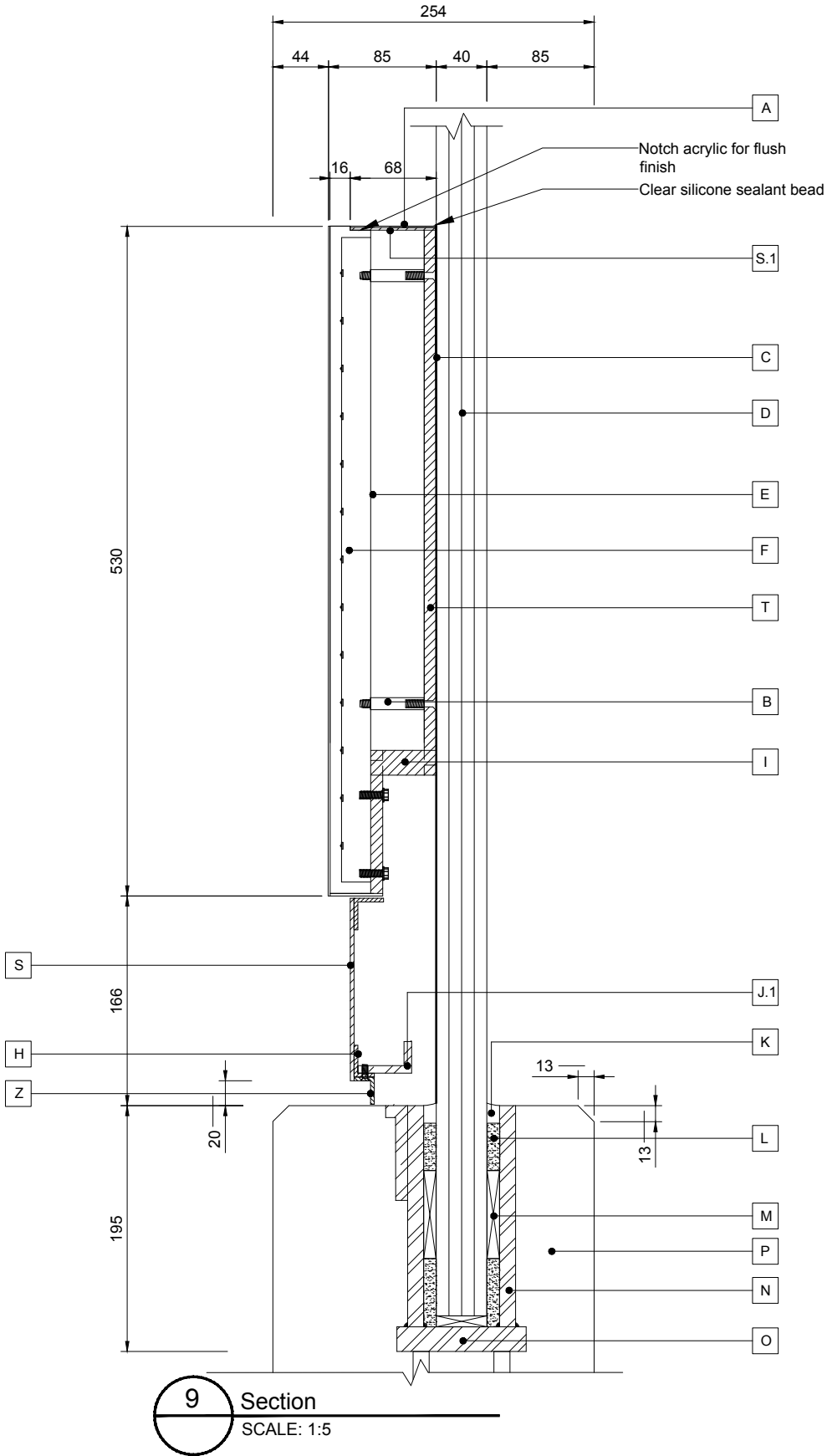
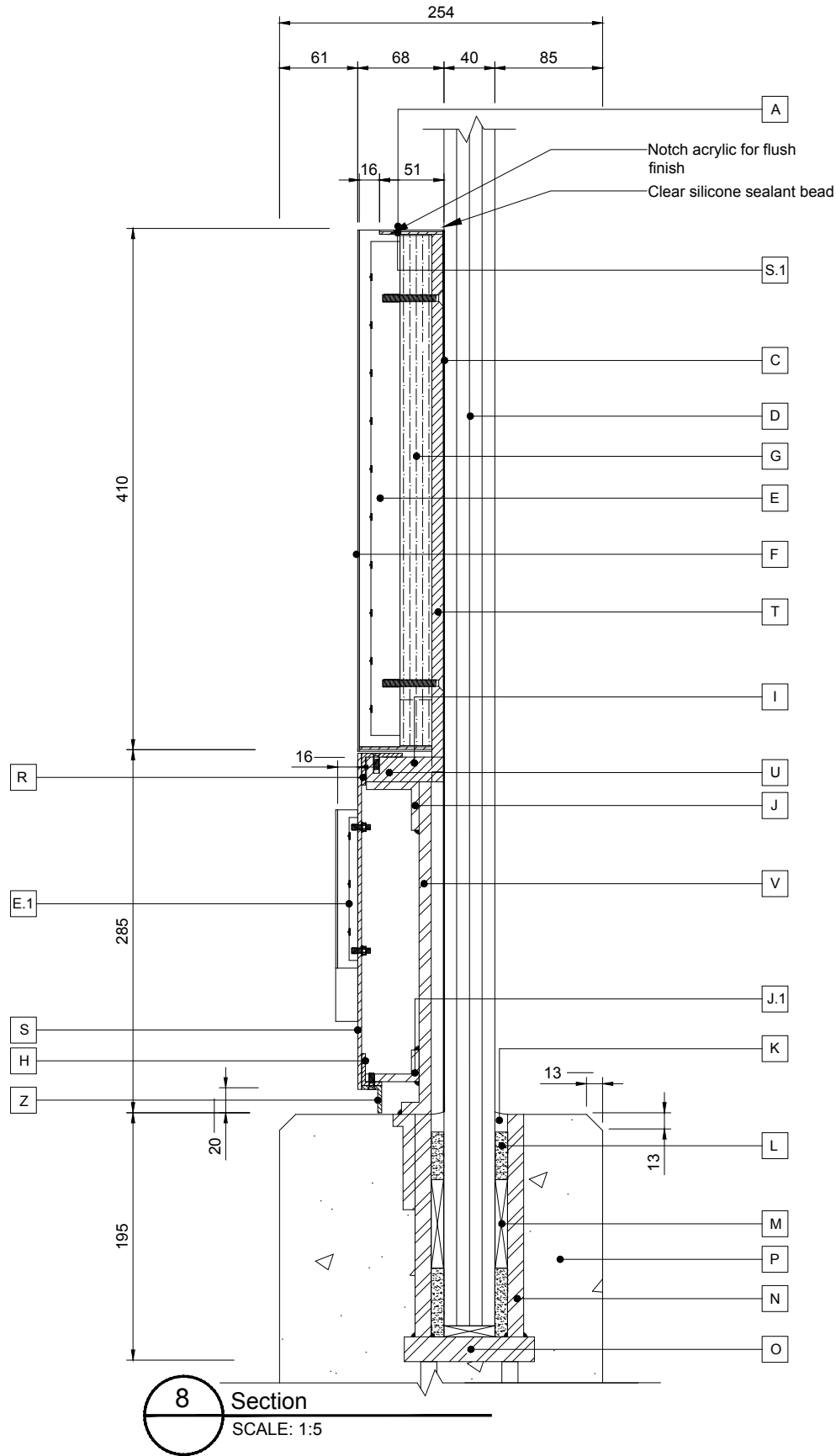
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U/G Electrical Conduit
16mm dia. U/G electrical conduit
- Y

Electrical Components & Electrical Pan
1.5mm thick aluminum break form electrical pans with LED drivers and on/off switch
- Z

Aluminum Angle
16mm x 21mm x 3mm aluminum angle



Thank You.

