

**NRC ADVANCED MANUFACTURING PROGRAM (AMP)
WINNIPEG, MB**

ISSUED BY



ALL BIDDERS SHALL READ THE ENTIRE ADDENDUM AND TAKE INTO ACCOUNT AS PART OF THE TENDER DOCUMENTS.

WHERE A REVISION IS CALLED FOR IN A DRAWING OR IN A SECTION OF A SPECIFICATION, IT SHALL BE CONSIDERED REVISED FOR ALL RELATED DRAWINGS AND SECTIONS OF THE SPECIFICATION.

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1.0 ARCHITECTURAL CLARIFICATIONS

1.1 Building Permit Fee:

- .1 No. 10 Architectural Group has submitted the Building Permit Application and required documentation for the NRC AMP Building at 2690 Red Fife Road to the South Interlake Planning District and has paid the required Building Permit Application Review Fee. As per GC 1.8.2, the remaining Building Permit Fee is the responsibility of the Contractor.

2.0 ARCHITECTURAL SPECIFICATIONS

2.1 Delete Specification Section 05 50 00 Metal Fabrications in its entirety and replace with new Specification Section 05 50 00 Metal Fabrications R1 attached in this addendum.

2.2 Refer to new Specification Section 08 41 13 Aluminum Framed Entrances and Storefronts attached in this Addendum.

2.3 Refer to new Specification Section 08 50 00 Explosion Venting Wall System attached in this Addendum.

2.4 Refer to new Specification Section 33 46 16 Sub-Drainage Piping attached in this Addendum.

2.5 Refer to Specification Section 01 11 00 Summary of Work:

- .1 Article 1.4 Performance of the Work; delete this article in its entirety.

2.6 Refer to Specification Section 06 82 16 Fibreglass Grating:

- .1 Article 2.1 Pultruded Fibreglass Gratings; revise paragraph 2.1.1 with the following;
 - “1 Pultruded Fibreglass Gratings (FLGR2): High strength and high stiffness pultruded elements having maximum 70% and minimum 60% glass content of continuous roving and continuous strand mat fibreglass reinforcements. Finished surface to be provided with a surfacing veil to provide a resin rich surface which improves corrosion resistance and resistance to ultraviolet degradation. Bearing bars to be interlocked and epoxied in place with a 2-piece cross rod system to provide a mechanical and chemical lock. Cross rods should be below the walking surface of the grating. Gratings with the cross rods that are flush with walking surface are excluded.”

2.7 Refer to Specification Section 08 35 13 Tempered Glass Partitions:

- .1 Article 2.5 Hardware; add paragraph 2.5.3 with the following;
 - “3 Point Supported Glass Fitting: Material; Alloy 316 grade stainless steel. Diameter; 51mm, Projection; 45mm, Finish; To be determined by Departmental Representative.”

2.8 Refer to Specification Section 08 44 13 Glazed Aluminum Curtain Walls:

- .1 Article 2.4 Components; revise paragraph 2.4.4 with the following;
 - “4 Flashings: 1.2 mm thick aluminum, finish to match curtain wall mullion sections where exposed, secured with concealed fastening method.”

- 2.9 Refer to Specification Section 08 71 00 Door Hardware:
- .1 Add new Article 2.5 Automatic Door Operator with the following:
 - “2.5 AUTOMATIC DOOR OPERATORS
 - .1 Acceptable Manufacturers:
 - .1 LCN.
 - .2 Horton Automatics.
 - .3 Stanley.
 - .4 Gyro-Tech.
 - .5 Hunter.
 - .6 Besam.
 - .7 Nabco.
- 2.10 Refer to Specification Section 09 80 00 Acoustic Treatment:
- .1 Article 2.3 Acoustic Wood Panel System; revise paragraph 2.3.2.2 in its entirety with the following:
 - “2 Size: 640mm width x 2510mm maximum length unless otherwise indicated on drawings.”
- 2.11 Refer to Specification Section 09 95 00 Epoxy Flooring and Wall Finish:
- .1 Article 2.2 Fluid Applied Flooring; add paragraph 2.2.2.1.5 with the following:
 - “5 Static Control Properties:
 - .1 Surface Resistance: 0.025 to 1.0 megaohms.
 - .2 Spark Generation: No visible sparks.”
 - .2 Article 2.2 Fluid Applied Flooring; revise paragraph 2.2.3.1.5 with the following:
 - “5 Static Control Properties:
 - .1 Surface Resistance: < 1.0 megaohms.
 - .2 Body Voltage Generation: < 100 volts”
 - .3 Article 2.2 Fluid Applied Flooring; delete paragraph 2.2.4 in its entirety.

3.0 ELECTRICAL SPECIFICATIONS

- 3.1 Refer to Specification Section 26 24 13 Switchboards (Above 1200A):
- .1 Item 2.1.18; delete “aluminium”.
 - .2 Item 2.3.1; delete all references to “aluminium”.
 - .3 Item 2.4.4; delete .1 and .2
- 3.2 Refer to Specification Section 26 24 16 CDP type Distribution (Up to 1200A):
- .1 Item 2.1.1; revise the CSA to CSA C22.2 No. 29 with 2,290 mm high CDP sections
 - .2 Item 2.1.9; delete “aluminium”.
 - .3 Item 2.1.2; delete “Verify with plans for maximum overall dimensions.”
- 3.3 Refer to Specification Section 26 24 17 Panelboards Breaker Type:
- .1 Item 2.1.1.13; delete “NEMA 1 NEMA 3R”.
- 3.4 Refer to Specification Section 26 25 00 Bus Duct/Busways:
- .1 Item 1.1.1; delete “and weatherproof”.

- 3.5 Refer to Specification Section 26 28 21 Moulded Case Circuit Breakers:
.1 Item 2.6.1; add “where shown on the drawings.”
- 3.6 Refer to Specification Section 26 28 23 Disconnect Switches - Fused and Non-fused:
.1 Item 2.1.2; revise to read: Enclosure shall be protected from spray from sprinkler heads as outlined in Canadian Electrical Code.
.2 Item 2.1.4 delete “on-“.
- 3.7 Refer to Specification Section 26 29 10 Motor Starters to 600 V:
.1 Item 2.2.3; delete “NEMA 1 NEMA 3R”.
- 3.8 Refer to Specification Section 26 32 14 Power Generation Diesel:
.1 2.1.8.8; delete.
.2 Item 2.2.2; revise temperature rise to “a maximum of 130° C” temperature rise.
.3 Item 2.2.11; delete.
.4 Item 2.5.2.1; delete.
- 3.9 Refer to Specification Section 26 36 23 Automatic Load Transfer Equipment:
.1 Item 2.2.2; revise to read “open transition”.
.2 Item 2.2.13; delete “NEMA 3R”.
- 3.10 Refer to Specification Section 27 51 16 Public Address and Mass Notification Systems:
.1 Item 1.3; add .4 Lencore by NICI.
- 3.11 Refer to Specification Section 27 52 16 Sound Masking System:
.1 Item 2.1; add .2 Lencore by NICI.
- 3.12 Refer to Specification Section 28 23 00 Closed Circuit Television System (CCTV):
.1 Item 2.1; add .2 Avigilon by NICI.

4.0 ARCHITECTURAL DRAWINGS

- 4.1 Refer to Drawing A200 RCP - Level 0 - West
.1 Drawing A200 is revised to indicate additional dimensions to clarify light fixtures location in stairs, and drawing is issued as part of this addendum. Refer to new DA-089 revision sketch attached to this addendum.
- 4.2 Refer to Drawing A201 RCP - Level 0 - East
.1 Drawing A201 is revised to indicate additional dimensions to clarify light fixtures location in stairs, and drawing is issued as part of this addendum. Refer to new DA-090 revision sketch attached to this addendum.
- 4.3 Delete Drawing A202 RCP – LEVEL 1 - WEST in its entirety and replace with new drawing A202 RCP – LEVEL 1 – WEST (Rev.2) attached to this addendum.
.1 Drawing A202 is revised to add new detail 4/A202 RCP LEVEL 1 WEST – ACW1 LUNCH ROOM to clarify layout and to coordinate with electrical and mechanical fixtures provided at the ACW1 ceiling. Additional mechanical diffusers are added to coordinate with mechanical drawings.
.2 Drawing A202 is revised to add additional dimensions and notations to clarify layout and to coordinate with electrical and mechanical fixtures provided as indicated on electrical and mechanical drawings.
.3 Drawing A202 is revised to clarify layout of ACT ceiling in rooms 104, 105A and 105B.

- .4 Drawing A202 is revised to clarify details section references as indicated.
- 4.4 Delete Drawing A203 RCP – LEVEL 1 - EAST in its entirety and replace with new drawing A203 RCP – LEVEL 1 – EAST (Rev.2) attached to this addendum.
 - .1 Drawing A203 is revised to add additional dimensions and notations to clarify layout and to coordinate with electrical and mechanical fixtures provided as indicated on electrical and mechanical drawings.
 - .2 Drawing A203 is revised to clarify layout of ACT ceiling in room 141.
- 4.5 Delete Drawing A204 RCP – LEVEL 2 - WEST in its entirety and replace with new drawing A204 RCP – LEVEL 2 – WEST (Rev.2) attached to this addendum.
 - .1 Drawing A204 is revised to add additional dimensions and notations to clarify layout and to coordinate with electrical and mechanical fixtures provided as indicated on electrical and mechanical drawings. Additional mechanical diffusers are added to coordinate with mechanical drawings as indicated.
 - .2 Drawing A204 is revised to clarify layout of ACT ceiling in room 202 and 202J.
 - .3 Drawing A202 is revised to clarify details section references as indicated.
 - .4 Drawing A202 is revised to add room tag 202.
- 4.6 Delete Drawing A205 RCP – LEVEL 2 - EAST in its entirety and replace with new drawing A205 RCP – LEVEL 2 – EAST (Rev.2) attached to this addendum.
 - .1 Drawing A205 is revised to add additional dimensions and notations to clarify layout and to coordinate with electrical and mechanical fixtures provided as indicated on electrical and mechanical drawings.
- 4.7 Refer to Drawing A820 – CEILING DETAILS
 - .1 Detail 9/A820 is revised to indicate location and installation requirement for linear light fixture as indicated. Revision to clarify supports for projection screen is also indicated. Refer to new DA-094 revision sketch attached to this addendum.
- 4.8 Refer to Drawing A1000 Door Schedule Types Details
 - .1 Refer to Door Schedule; Revise glass types and fire ratings as shown on new DA-091 revision sheets attached to this addendum.
 - .2 Refer to Detail 5/A1000; add new “Frame Type F3C” as shown on new DA-093 revision sheet attached to this addendum.
- 4.9 Refer to A111 – Plan – Roof – East
 - .1 Add call out for roof plan as indicated in the attached detail sheet, DA-092.
 - .2 Add detail #2 – Plan Detail – Roof Column, as indicated in the attached detail sheet, DA-095.
- 4.10 Refer to A502 – Wall Sections
 - .1 Revise detail 1 as indicated in the attached detail sheet, DA-096.
 - .2 Revise detail 2 as indicated in the attached detail sheet, DA-096.
 - .3 Revise detail 3 as indicated in the attached detail sheet, DA-096.
- 4.11 Refer to A652 – Section Details
 - .1 Add detail 14, Kinetic Screen @ EBW2 Parapet, as indicated in the attached detail sheet, DA-097.

5.0 ELECTRICAL DRAWINGS

- 5.1 Refer to Drawing E010 Site Plan – Electrical:
- .1 Relocate type SC light standard at accessible parking spaces, west approximately 10,000 mm.
- 5.2 Refer to Drawing E115 Level 2 Plan – East- Lighting:
- .1 At north and east Kinetic wall; delete the type V3 linear LED fixture on circuit LP2-24 located on the inside face of the kinetic wall.
- 5.3 Refer to Drawing E501, E503, E504, E505 and E506 Electrical Panelboard and CDP Schedules:
- .1 Delete the enclosure 3R designation and replace with sprinkler-proof.
 - .2 Panelboards details for Panels 119, 120, 121, 122, 123, 124, and 126 to be as per Panel 128 and Drawing E601.
- 5.4 Refer to Drawing E508 Motor Schedule:
- .1 MCC-6A starter wrappers to be standard size units, all spares to be size 1 spares with 20A-3P breakers and delete the 2 empty sections on the right side of MCC.
- 5.5 Refer to Drawing E601 Main Distribution Single Line Diagram:
- .1 MD-6A; provide a 400A-3P LSI breaker with adjustable trip for Capacitor Bank PF-1. Connect with 2 runs of 3#250 MCM NUAL in conduit. Capacitor Bank to be rated at 250 Kvar.
 - .2 MCC-6A IC rating to be 35 KAIC.
- 5.6 Refer to Drawing E602 Emergency Distribution Single Line Diagram:
- .1 Delete EMCCA and related feeder. Breaker to remain in distribution EM6A.
 - .2 Delete Panel E400; Revise the breaker in ESD-6B to a 60A-3P LSI breaker and feed transformer TR-ED with 3#6 (cu).

6.0 STRUCTURAL DRAWINGS

- 6.1 Alternate Precast Foundations for Luminaire, Flag Pole and Security Gate
- .1 Refer to details 5/S002 and 24/S002;
 - .1 Add note: “Precast concrete foundations are acceptable as an alternate. Supplier to provide shop drawings sealed by a Professional Engineer registered in Manitoba.”
- 6.2 Typical Floor Box Detail
- .1 Refer to attached detail sheet DS.011 for addition of typical detail for reinforcing required at recessed floor boxes.
- 6.3 CMU Wall Supports
- .1 Refer to attached drawings S131 R3, S132 R3, S141 R3, S142 R3 and detail sheet DS.012 for addition and clarification of CMU wall supports.
- 6.4 Light Support Frame at Kinetic Screen
- .1 Refer to attached detail sheet DS.013 for addition of light support frame at kinetic screen.
- 6.5 Girt Elevation
- .1 Refer to section 2/S502; at girt on grid 6 supporting CMU wall, revise top of girt elevation to 4800.

- 6.6 Perimeter Angle at Interstitial Floor
.1 Refer to section 3/S502; revise perimeter angle at interstitial floor to 102 x 102 x 6.4.
- 6.7 Steel Hanger Spacing
.1 Refer to sections 4/S502 and 11/S506; revise spacing of steel hangers at top of CMU wall to 2400 o.c. max.
- 6.8 Detail Callout
.1 Refer to sections 1/S503 and 2/S503; delete callout for detail 10/S303 from section 2/S503 and replace at same location on section 1/S503.
- 6.9 Item No. 9 – HSS Girt Location
.1 Refer to section 2/S503; at interior HSS girt, add dimension of 175mm from outside face of girt to grid 1.

7.0 CIVIL DRAWINGS

- 7.1 Refer to Drawing C001 revision sheet attached to this Addendum:
.1 Some curbs at the west parking lot, which are in revision cloud, were revised to be with larger curve radii. Also curves which were missed in the previous submission were labeled.
- 7.2 Refer to Drawing C002 revision sheet attached to this Addendum:
.1 Additional curve data was added to the curve table.
- 7.3 Refer to Drawing C003 revision sheet attached to this Addendum:
.1 The hydrant was moved 1.5m south to accommodate for the revised curb radius at the building entry.
- 7.4 Refer to Drawing C004 revision sheet attached to this Addendum:
.1 The grades around the curb changes were revised accordingly.

8.0 LANDSCAPE DRAWINGS

- 8.1 Refer to Drawing DL-01 revision sheet attached to this Addendum:
.1 Revise mulch quantity to suite revised curb alignment identified by Civil.
.2 Revise light fixture location identified by Electrical.
.3 Add 1 bollard near proposed Electrical Vehicle Charger.

9.0 REQUESTS FOR INFORMATION

- 9.1 Refer to Requests for Information logs attached in this addendum.

10.0 REQUESTS FOR EQUALS

- 10.1 Refer to Requests for Equals logs attached in this addendum.

END OF ADDENDUM

Part 1 General

1.1 REFERENCES

- .1 ASTM A53/A53M - Pipe, Steel, Black and Hot-Dipped Zinc Coated, Welded and Seamless.
- .2 ASTM A123 - Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products.
- .3 ASTM A666 - Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar.
- .4 ASTM A269/A269M - Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
- .5 ASTM A1011/A1011M - Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability, and Ultra-High Strength.
- .6 ASTM A786/A786M - Hot-Rolled Carbon, Low-Alloy, High-Strength Low-Alloy, and Alloy Steel Floor Plates.
- .7 ASTM C518 - Test Method for Steady-State Thermal Transmission Properties by Means of the Heat Flow Meter Apparatus.
- .8 ASTM D638 - Test Method for Tensile Properties of Plastics.
- .9 ASTM D695 - Test Method for Compressive Properties of Rigid Plastics.
- .10 ASTM D732 - Test Method for Shear Strength of Plastics by Punch Tool.
- .11 ASTM F593 - Stainless Steel Bolts, Hex Cap Screws, and Studs.
- .12 ASTM E84 - Test Method for Surface Burning Characteristics of Building Materials.
- .13 ASTM E831 - Test Method for Linear Thermal Expansion of Solid Materials by Thermomechanical Analysis.
- .14 CSA G40.20/G40.21 - General Requirements for Rolled or Welded Structural Quality Steel / Structural Quality Steel.
- .15 CAN/CGSB-1.181 - Ready-Mixed Organic Zinc-Rich Coating.
- .16 CSA W47.1 - Certification of Companies for Fusion Welding of Steel Structures.
- .17 CSA W47.2 - Certification of Companies for Fusion Welding of Aluminum.
- .18 CSA W55.3 - Resistance Welding Qualification Code for Fabricators of Structural Members Used in Buildings.
- .19 CSA W59 - Welded Steel Construction (Metal Arc Welding).
- .20 SPCC - Society for Protective Coatings (formerly Steel Structures Painting Council):

- .1 Steel Structures Painting Manual.
- .21 ANSI/NAAMM MBG 531 – Metal Bar Grading.
- .22 ANSI A14.3-2008 – Ladders – Fixed – Safety Requirements.
- .23 AWS D1.1 – Structural Welding – Steel.

1.2 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Shop Drawings: Indicate profiles, sizes, connection attachments, reinforcing, anchorage, size and type of fasteners, and accessories. Include erection drawings, elevations, and details where applicable.
- .3 Indicate welded connections using standard AWS A2.0 welding symbols. Indicate net weld lengths.

1.3 MOCK UPS

- .1 Provide a Mock Up for Kinetic Wall;
 - .1 Intent of mock up is to test the kinetic screen application against building envelope durability. The mock up is to be freestanding on the site, built at construction start to be observed over duration of construction, prior to building applied kinetic screen install.
 - .2 Mock up to be one panel width by 1 panel high, with backup wall in same wall assembly cladding.
 - .3 To be located on site or built as free standing to be moved around as required.
 - .4 Departmental representative to approve free standing mock up prior to install, and approval of mock up durability before building applied kinetic screen to be installed.

1.4 QUALITY ASSURANCE

- .1 Conform to CSA W47.1, CSA W47.2, CSA W55.3, CSA W59.

1.5 QUALIFICATIONS

- .1 Prepare Shop Drawings under direct supervision of a Professional Structural Engineer experienced in design of this work and licensed in the Province of Manitoba.

Part 2 Products

2.1 ENVIRONMENTAL REQUIREMENTS

- .1 Green Globe Requirements:
 - .1 Comply with the requirements of Section 01 33 29 as applicable.

2.2 PERFORMANCE/DESIGN REQUIREMENTS

- .1 Non-Structural elements covered by this specification section that are affixed or attached to walls or ceilings shall be designed with seismic restraints assuming Class E for the seismic design.

2.3 MATERIALS

- .1 Stainless steel sheet, strip, plate and flat bar: to ASTM A666, Type 304, AISI No. 4 finish, minimum 75% recycled content.
- .2 Stainless steel tubing: to ASTM A269/A269M, minimum 75 % recycled content, seamless or welded with AISI No. 4 finish.
- .3 Stainless steel bolts, nuts and washers: stainless steel to ASTM F593, minimum 75% recycled content.
- .4 Steel: to CSA G40.20/G40.21, Grade 300 W, minimum 30% recycled content.
- .5 Hollow Structural Sections (HSS): to CSA G40.20/G40.21m Grade 350W, Class H, Minimum 30% recycled content.
- .6 Alkyd primer: to MPI #79, E3 environmental rating.
- .7 Galvanizing: hot dip, unpassivated, to ASTM A123/A123M, Coating Grade 85, minimum 600 g/m².
- .8 Zinc rich primer for galvanized surfaces: zinc rich, readymix to CAN/CGSB-1.181, Ecologo Certified.
- .9 Grout: non-shrink, non-metallic, flowable, 24 h, 15 MPa, pullout strength 7.9 MPa.
- .10 Steel gratings welded: bearing bars, cross bars, bent connecting bars and anchors, welding quality, mild carbon steel to ASTM A1011/A1011M.
- .11 Steel floor plate (checker plate): to CSA G40.20/G40.21, raised pattern, hot rolled steel, dimensional tolerances to ASTM A786/A786M.
- .12 Steel bar grating treads: to ANSI/NAAMM MBG 531, Type W-19-4 steel with checker plate nosing.
- .13 Steel bar gratings: to ANSI/NAAMM MBG 531, Type W-19-4, mild carbon steel to ASTM A1011/A1011M, minimum 30% recycled content, welded; plain bearing bars 32 x 4.8 mm @ 30 mm on center, twisted cross bars @ 102 mm on center, galvanized, complete with galvanized steel angle frame 30 x 50 x 6 mm, with welded bearing bar and concrete anchors.
 - .1 Interior use: Hinged.
 - .2 Exterior use: Hinged, with padlock securing eyes.
- .14 Aluminum alloy: extrusions to Aluminum Association Designation AA6063-T5, sheet to Designation AA1100, minimum 80% recycled content, brushed aluminum with designation AA-A31 clear anodized finish.

- .15 Removable prefinished aluminum covers: 3 mm thick bent plate in profile as indicated, perforation pattern to be 5 mm diameter, staggered, 75% open area, clear anodized.
- .16 Canopy Cladding: Stainless steel sheet, strip, plate and flat bar: to ASTM A666, Type 304, AISI No. 4 finish, minimum 75% recycled content, Thickness; 18 gauge.

2.4 KINETIC WALL (KS-1)

- .1 Panel Material: Stainless Steel: to ASTM A666, Type 316, AISI No. 4 finish, minimum 75% recycled content, Thickness; 18-gauge, Size; 152 mm x 152 mm.
 - .1 Finish; Water Based Light Industrial Coating.
- .2 Frame: Aluminum: Aluminum tubing: to ASTM A269/A269M, minimum 75 % recycled content, seamless or welded with AISI No. 4 finish. Size; as indicated, with reinforced thermoset thermally broken pads at wall connection. Standoff to suit application.
 - .1 Thermal Pads:
 - .1 Compressive Strength: ASTM D638, 40,000 psi.
 - .2 Compressive Modulus: ASTM D695, 673,400 psi.
 - .3 Shear Strength: ASTM D732, 16,000 psi.
 - .4 Thermal Conductivity: ASTM C518, 1.05 BTU in/ hr sf degree F.
 - .5 Coefficient of Thermal Expansion: ASTM E831 2.2 x 10e-6 in/in/degree F.
 - .6 Thermal Resistance (R value): ASTM C518, 0.95 hr sf degree F/ BTU.
 - .7 Surface Burning Characteristics: ASTM E84.
 - .1 Flame Spread: 25 (class A).
 - .2 Smoke Developed: 50 (class A).
 - .2 Accessories;
 - .1 Washers shall be minimum 0.25 inch thick. Bushing and washer to provide thermal break between steel washer/bolt and internal structural steel.

2.5 ARCHITECTURAL METAL MESH

- .1 Refer to Section 10 24 00.

2.6 RAILINGS AND LADDERS

- .1 Steel pipe: to ASTM A53/A53M, standard weight, Finish; Paint, Colour; To be determined by Departmental Representative.
- .2 Ladders: to be in accordance with ANSI A14.3-2008.
- .3 Supply for installation, steel brackets, supports, rungs, stringers, anchor bolts and angles as indicated. Drill for countersunk screws and anchor bolts.

2.7 MISCELLANEOUS STEEL BRACKETS, ANCHOR BOLTS, SUPPORTS AND ANGLES

- .1 Supply for installation, steel brackets, supports, anchor bolts and angles as indicated. Drill for countersunk screws and anchor bolts.

2.8 STEEL LINTELS

- .1 Loose steel lintels of sizes indicated, for openings in masonry walls unless otherwise noted. Prime paint.
- .2 Provide 200mm minimum bearing at ends. Weld or bolt together angles where installed back-to-back. Refer to spec detail for beam bearing details.
- .3 Fabrication of steel lintels shall be in accordance with the requirements of Section 05 12 00, Structural Steel CSA S16.

2.9 BOLLARDS

- .1 Corrugated steel pipe: to CSA-G401, Diameter; 6", Finish; Galvanized.
- .2 Concrete filled with smooth round top.
- .3 Bollard Cover: Size; to suit, Colour; To be determined by Departmental Representative.

2.10 INTERIOR SUMP FRAMES AND COVERS

- .1 Welded, hot dipped galvanized, 45 mm x 45 mm x 6.4 mm carbon steel angle frame, gasketed, with anchor straps as required, and 450 x 450 mm aluminum or galvanized steel cover, sealed air-tight to frame.
- .2 Acceptable alternate: Polypropylene or fiberglass basin, 450 mm dia, complete with airtight gasketed lid, piping and power cord connections, gasketed access panel
 - .1 Site verify required depths to suit drain inverts shown on drawings
- .3 Hand to general contractor for installation in concrete floors where shown on drawings.

2.11 METAL FOOT GRILLE

- .1 Metal Foot Grille (FLGR1): Material; Aluminium Extrusion with 12mm continuous bars, Type; pan-less, Profile; T-shape, Tread Bar Size; 12mm x 32mm, Finish; Standard Mill Finish.
 - .1 Frame: Corrosion resistant, L-shape, Size; 25mm x 38mm x 6mm.
 - .2 Mounting: Recessed 32mm.

2.12 FABRICATION

- .1 Review Contract Documents and provide all metal fabrications indicated.
- .2 Notify Departmental Representative of any proposed member substitutions and changed connection details.

- .3 Fabricate work square, true, straight, and accurate, to required size, with joints closely fitted and properly secured.
- .4 Fabricate items from steel unless otherwise noted.
- .5 Verify all dimensions prior to fabrication.
- .6 Provide bolt holes where required for fastenings.
- .7 Use self-tapping shake-proof, countersunk, flat-headed screws on items required to be assembled by screws or as indicated.
- .8 Where possible, Work to be fitted and shop assembled, ready for erection.
- .9 Exposed welds to be continuous for length of each joint, filed or ground smooth, and flush.
- .10 Supply all items for building-in in ample time for incorporation into the Work without delay to other trades.

2.13 FABRICATION - PAN STAIRS AND LANDINGS

- .1 Fabricate stairs and landings with closed risers and treads of metal pan construction, ready to receive concrete.
- .2 Form treads and risers with minimum 3 mm thick sheet steel stock.
- .3 Secure reinforced tread pans to stringers with clip angles; welded in place.
- .4 Form stringers with rolled steel channels.
- .5 Form landings with minimum 3 mm thick sheet stock. Reinforce underside with angles 3 to attain design load requirements.
- .6 Form balusters with round steel sections.
- .7 Prime paint components.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify that field conditions are acceptable and are ready to receive work.

3.2 PREPARATION

- .1 Clean and strip primed steel items to bare metal where site welding is required.
- .2 Supply steel items required to be cast into concrete or embedded in masonry with setting templates to appropriate sections.

3.3 INSTALLATION

- .1 Install items plumb and level, accurately fitted, free from distortion or defects.

- .2 Provide for erection loads, and for sufficient temporary bracing to maintain true alignment until completion of erection and installation of permanent attachments.
- .3 Field weld components indicated on shop drawings.
- .4 Perform field welding in accordance with AWS D1.1.
- .5 Obtain approval prior to site cutting or making adjustments not scheduled.
- .6 After erection, prime welds, abrasions, and surfaces not shop primed or galvanized, except surfaces to be in contact with concrete.

3.4 ERECTION TOLERANCES

- .1 Maximum Variation From Plumb: 6 mm per story, non-cumulative.
- .2 Maximum Offset From True Alignment: 6 mm.
- .3 Maximum Out-of-Position: 6 mm.

3.5 SCHEDULE

- .1 The following Schedule is a list of principal items only. Refer to Drawing details for items not specifically scheduled. Schedule attached at end of section.

END OF SECTION

Part 1 General

1.1 SYSTEM DESCRIPTION

- .1 Aluminum entrances and storefront system includes tubular aluminum sections, shop fabricated, factory finished, vision glass, related anchorage and attachment devices.
- .2 System Assembly: Site assembled.

1.2 PERFORMANCE REQUIREMENTS

- .1 System Assembly: Accommodate without damage to components or deterioration of seals, movement within system, movement between system and peripheral construction, dynamic loading and release of loads, deflection of structural support framing.

1.3 SUBMITTALS FOR REVIEW

- .1 Section 01 33 00: Submission procedures.
- .2 Product Data: Provide component dimensions, describe components within assembly, anchorage and fasteners, glass and door hardware.
- .3 Shop Drawings: Indicate system dimensions, framed opening requirements and tolerances, affected related Work and expansion and contraction joint location and details.

1.4 QUALITY ASSURANCE

- .1 Manufacturer and Installer: Company specializing in manufacturing aluminum glazing systems with minimum three (3) years documented experience.

1.5 DELIVERY, STORAGE, AND PROTECTION

- .1 Protect finished aluminum surfaces with strippable coating. Do not use adhesive papers or sprayed coatings which bond when exposed to sunlight or weather.

1.6 PROJECT CONDITIONS

- .1 Coordinate the Work with installation of firestopping components or materials.

1.7 WARRANTY

- .1 Correct defective Work within a five (5) year period after Substantial Completion.
- .2 Warranty: Include coverage for complete system for failure to meet specified requirements.
- .3 Provide five (5) year manufacturer warranty for glazed units.

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Waste Management and Disposal.
- .2 Collect and separate for disposal, paper, plastic, metal, corrugated cardboard, and other packaging material in appropriate on-site bins for recycling.
- .3 Divert unused materials, cut offs etc, from landfill appropriate on-site bins for recycling.
- .4 Dispose of unused sealant materials, paint, primers, at official hazardous material collections site.
- .5 Do not dispose of unused sealant materials, paint, primers, into sewer system, into streams, lakes, onto ground or in other locations where it will pose health or environmental hazard.

Part 2 Products

2.1 INTERIOR ALUMINUM DOOR AND GLAZING FRAMES

- .1 Interior Aluminum Door and Glazing Frames: Material; Extruded Aluminum 6063-T5, Finish; To be determined by Departmental Representative.
 - .1 Door Frame System:
 - .1 Type; Rectilinear.
 - .2 Face Profile; 45mm
 - .3 Snap on Trim; 45mm aluminum.
 - .4 Rabbet Wall Thickness; 1.75mm.
 - .5 Throat Size; 102mm.
 - .6 Stops; Fixed with continuous vinyl seal.
 - .2 Glazing System:
 - .1 Throat Size; 102mm.
 - .2 Glazing stops; Concealed.

2.2 GLASS AND GLAZING MATERIALS

- .1 Glass and Glazing Materials: As specified in Section 08 80 00.

2.3 SEALANT MATERIALS

- .1 Sealant and Backing Materials:
 - .1 Perimeter Sealant: Type as specified in Section 07 92 00.

2.4 HARDWARE

- .1 Hardware: as specified in Section 08 71 00 - Door Hardware.

2.5 FABRICATION

- .1 Fabricate components with minimum clearances and shim spacing around perimeter of assembly, yet enabling installation and dynamic movement of perimeter seal.
- .2 Accurately fit and secure joints and corners. Make joints flush and hairline.
- .3 Arrange fasteners and attachments to conceal from view.
- .4 Prepare components with internal reinforcement for door hardware and door operator hinge hardware.
- .5 Reinforce framing members for imposed loads.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify dimensions, tolerances, and method of attachment with other work.
- .2 Verify wall openings are ready to receive work of this Section.

3.2 INSTALLATION

- .1 Install wall system in accordance with manufacturer's instructions.
- .2 Attach to structure to permit sufficient adjustment to accommodate construction tolerances and other irregularities.
- .3 Provide alignment attachments and shims to permanently fasten system to building structure.
- .4 Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.
- .5 Install hardware using templates provided. Refer to Section 08 71 00 for installation requirements.
- .6 Install glass to glazing method required to achieve performance criteria.
- .7 Install perimeter sealant to method required to achieve performance criteria and installation criteria in accordance with Section 07 92 00.

3.3 ERECTION TOLERANCES

- .1 Maximum Variation from Plumb: 0.06 inches every 1.5 mm/m non-cumulative or 1.5 mm/3 m, whichever is less.
- .2 Maximum Misalignment of Two Adjoining Members Abutting in Plane: 0.8 mm.

3.4 ADJUSTING

- .1 Adjust operating hardware and sash for smooth operation.

3.5 CLEANING

- .1 Remove protective material from pre-finished aluminum surfaces.
- .2 Wash down surfaces with a solution of mild detergent in warm water, applied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.
- .3 Remove excess sealant by method acceptable to sealant manufacturer.

3.6 PROTECTION OF FINISHED WORK

- .1 Protect finished Work from damage.

END OF SECTION

Part 1 General

1.1 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Shop Drawings:
 - .1 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Manitoba, Canada.
 - .2 Indicate system dimensions, framed opening requirements and tolerances, affected related Work and expansion and contraction joint location and details.

1.2 CLOSEOUT SUBMITTALS

- .1 Submit in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Operation and Maintenance Data: submit operation and maintenance data for incorporation into manual.

1.3 QUALITY ASSURANCE

- .1 Certifications: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Delivery and Acceptance Requirements: Deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store panels on the long edge, indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect product from nicks, scratches, and blemishes.
 - .3 Replace defective or damaged materials with new.

Part 2 Products

2.1 EXPLOSIVE VENTING SYSTEM

- .1 Explosive Venting System (EVS-1): Translucent fiberglass sandwich panel.
 - .1 Panel Thickness; 70mm, no insulation.

- .2 Interior Face Sheet; White.
- .3 Exterior Face Sheet; Crystal FRP.
- .4 Design Pressure; 50 Kpa.
- .5 Grid Pattern; To be determined by Departmental Representative.
- .6 Grid Core; I-beam thermal.
- .7 Finish; To be determined by Departmental Representative.

2.2 COMPONENTS

- .1 Closure System: Extruded aluminum 6063-T6 and 6063-T5 alloy and temper clamp-tite screw type explosion venting closure system.
- .2 Panels Restraints: Factory supplied stainless steel safety cables, factory attached to panels and fastened to building securely by installer.
- .3 Sealing tape: Manufacturer's standard, pre-applied to closure system at the factory under controlled conditions.
- .4 Fasteners: 300 series stainless steel screws for aluminum closures, excluding final fasteners to the building.

Part 3 Execution

3.1 EXAMINATION

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

3.2 INSTALLATION

- .1 Install the panel system in accordance with the manufacturer's suggested installation recommendations and approved shop drawings.
- .2 Anchor component parts securely in place by permanent mechanical attachment system.
- .3 Accommodate thermal and mechanical movements.
- .4 Set perimeter framing in a full bed of sealant compound, or with joint fillers or gaskets to provide weather-tight construction.
- .5 Install joint sealants at perimeter joints and within the panel system in accordance with manufacturer's installation instructions.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

3.4 PROTECTION

- .1 Protect installed products and components from damage during construction.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 ASTM International
 - .1 ASTM C136-06, Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates.
- .2 CSA International
 - .1 CAN/CSA-B1800-06, Thermoplastic Non-pressure Pipe Compendium.

1.2 ADMINISTRATIVE REQUIREMENTS

- .1 Inform Departmental Representative of proposed source of bedding and filter materials and provide access for sampling at least 4 weeks prior to commencing work.

1.3 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for pipes, pipe fittings, tiles, and aggregate and include product characteristics, performance criteria, physical size, finish and limitations.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements with manufacturer's written instructions.
- .2 Delivery and Acceptance Requirements: deliver materials to site in original factory packaging, labelled with manufacturer's name and address.
- .3 Storage and Handling Requirements:
 - .1 Store materials in accordance with manufacturer's recommendations.
 - .2 Store and protect pipes from damage.
 - .3 Replace defective or damaged materials with new.

Part 2 Products

2.1 MATERIALS

- .1 Plastic pipe and fittings: to BNQ 3624-115, nominal inside diameter 100 mm.
- .2 Perforated plastic pipe and fittings: to CAN/CSA-B1800. Nominal pipe sizes 100 mm.
- .3 Bedding gravel or crushed stone; hard, durable particles, graded evenly in size from 16 to 8 mm.
- .4 Granular filter material in accordance with Section 31 05 16 - Aggregate Materials and following requirements:

- .1 Screened stone or gravel.
- .2 Gradations to be within limits specified when tested to ASTM C136.

Part 3 Execution

3.1 EXAMINATION

- .1 Verification of Conditions: verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for sub-drainage piping installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Departmental Representative.
 - .2 Inform Departmental Representative of unacceptable conditions immediately upon discovery.
 - .3 Proceed with installation only after unacceptable conditions have been remedied.

3.2 INSTALLATION OF PIPE SUB-DRAINS

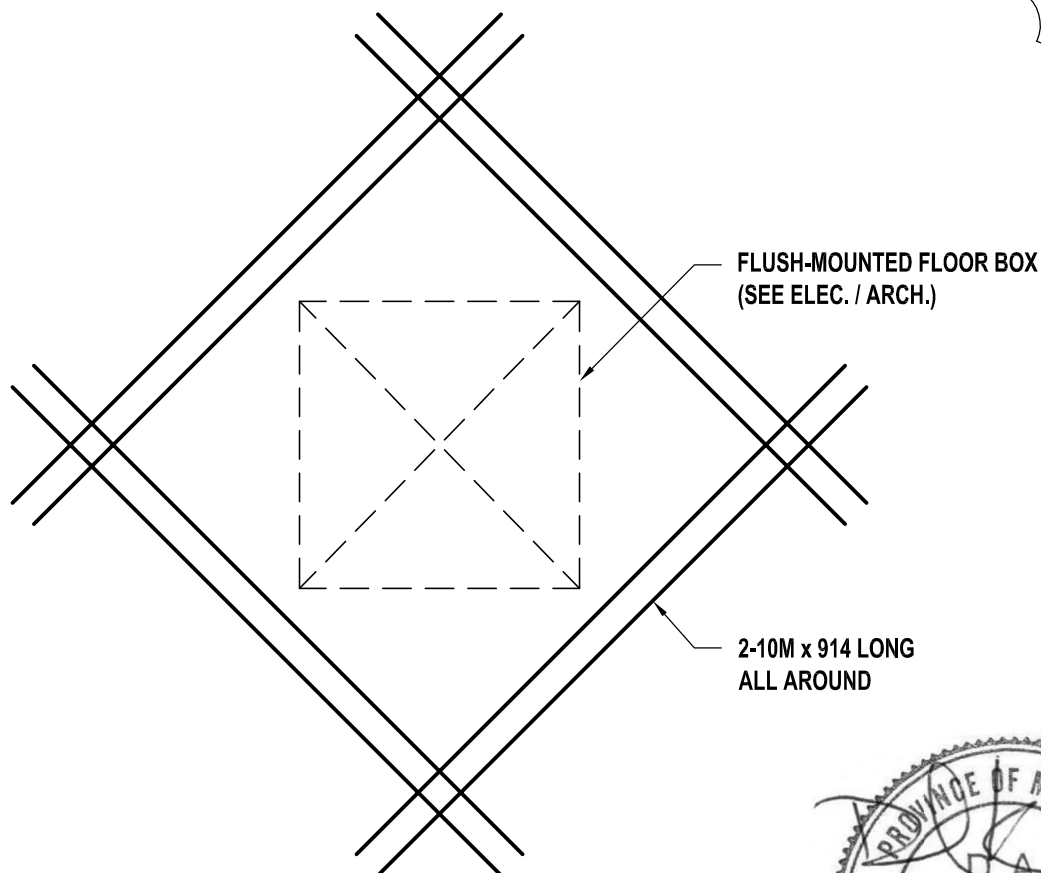
- .1 Fill bottom of trenches with 50 mm sand.
- .2 Lay pipe drains on prepared bed, true to line and grade with inverts smooth and free of sags or high points with a minimum slope of 2%.
 - .1 Ensure barrel of each pipe is in contact with bed throughout full length.
- .3 Begin laying at outlet and proceed in upstream direction.
- .4 Lay perforated pipes with perforations downwards at 4 o'clock and 8 o'clock positions.
- .5 Lay bell and spigot pipe with bell ends facing upstream.
 - .1 Do not mortar joints.
- .6 Cover joints of bell and spigot pipe with two-ply tar paper strips not less than 150 mm wide.
 - .1 Use strips of sufficient length to permit ends to be laid flat on bedding and turned outward on either side of pipe for a minimum distance of 75 mm.
- .7 Make joints tight in accordance with manufacturer's instructions.
- .8 Make watertight connections to existing drains, new or existing manholes and catch basins where indicated or as directed by Departmental Representative.
- .9 Plug open upstream ends of pipes with watertight concrete, steel or wood bulkheads.
- .10 Surround pipe with bedding gravel and compact as directed by Departmental Representative.
- .11 Surround and cover drain with filter material in uniform 150 mm layers to an elevation of at least 150 mm above top of drain and compact to at least 95% of corrected maximum dry density.
- .12 Wrap or sleeve perforated pipe with geotextile filter as indicated.
- .13 Backfill remainder of trench to Section 31 23 33.01 - Excavating, Trenching and Backfilling.

- .14 Protect sub-drains against flotation during installation.
- .15 Install "Y" connections to surface as indicated, for flushing.

3.3 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.

END OF SECTION




1 **TYPICAL FLOOR BOX DETAIL**
DS.011 | DS.011 SCALE 1:10

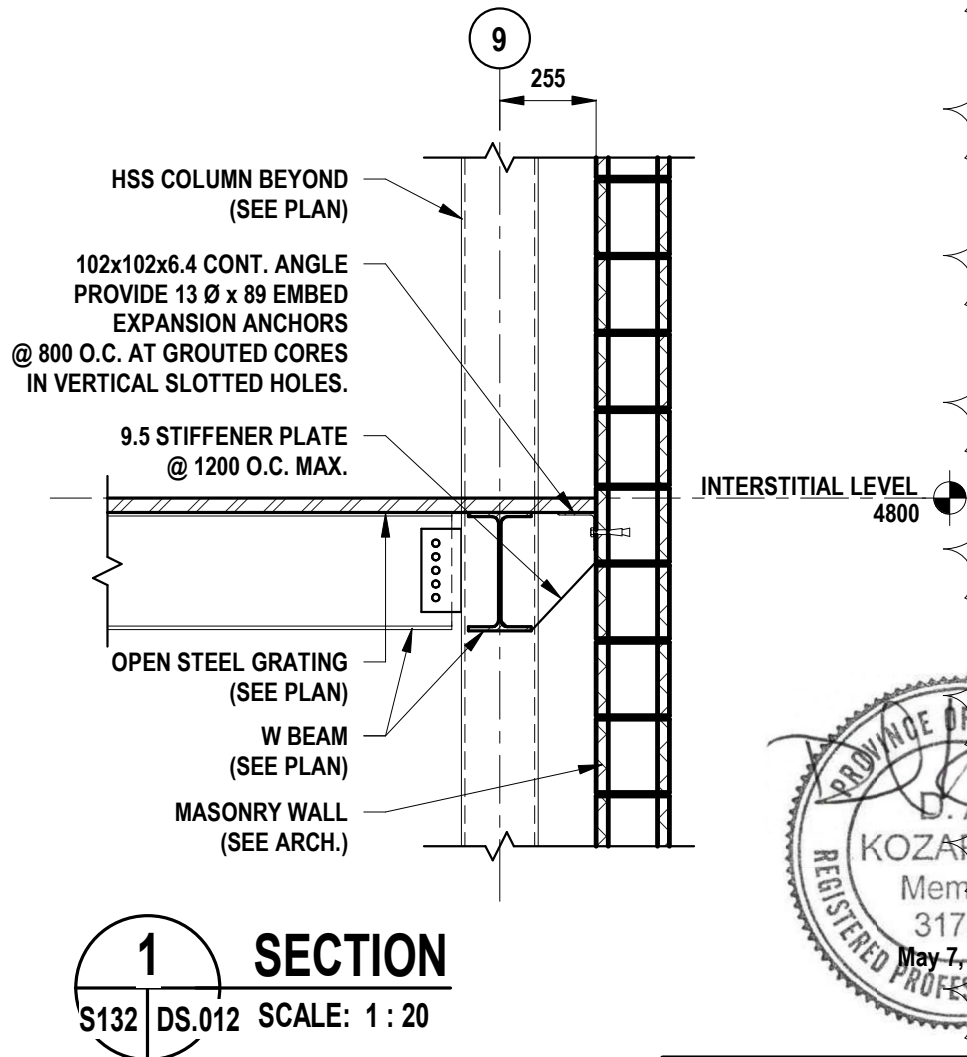


Certificate of Authorization

Lavergne Draward & Associates Inc.

No. 1912 **Date:** May 7, 2019

project	NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG	projet	Designed By	DK	Conçu par	 <div>Public Works and Government Services Canada</div> <div>REAL PROPERTY SERVICES Western Region</div> <div>Travaux publics et services gouvernementaux Canada</div> <div>SERVICES IMMOBILIERS Région de l'Ouest</div>	
			Date	2019/05/07	(yyyy/mm/dd)		
			Drawn By	JN	Dessiné par		
			Date	2019/05/07	(yyyy/mm/dd)		
drawing	DETAIL	dessin	Reviewed By	DK	Examiné par	Project no. <div>R.076948.001</div> Drawing no. <div>DS.011</div>	
			Date	2019/05/07	(yyyy/mm/dd)		No. du projet
			Approved By	DK	Approuvé par		
			Date	2019/05/07	(yyyy/mm/dd)		
			Tender	KEVIN GALLAYS	Soumission	No. du dessin	
			Project Manager		Administrateur de projets		

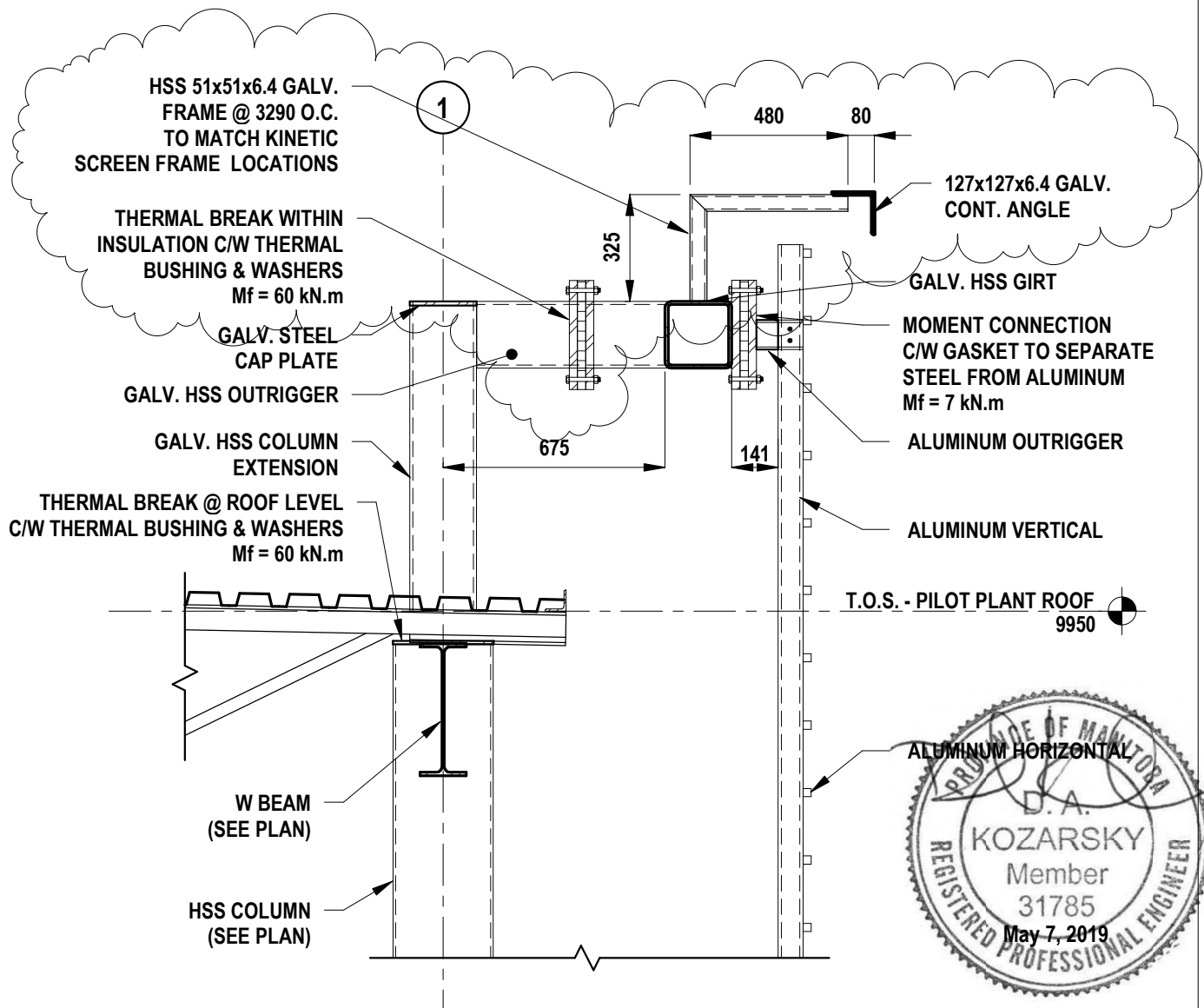


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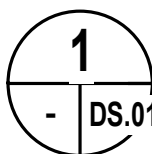
Lavergne Draward & Associates Inc.

No. 1912 Date: May 7, 2019

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TYPICAL KINETIC SCREEN CONNECTION - ROOF (8/S303)



DS.013 SCALE: 1 : 20



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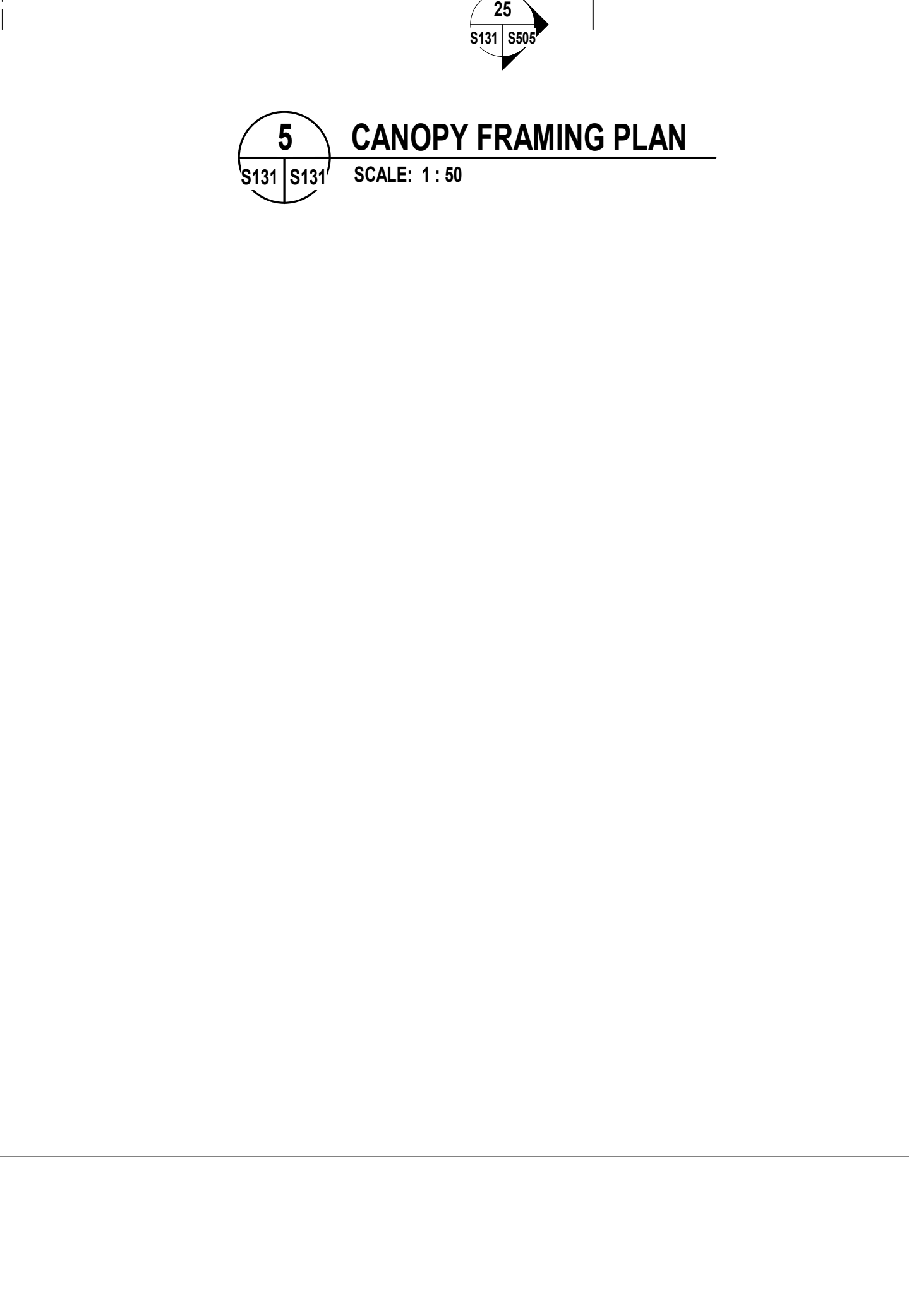
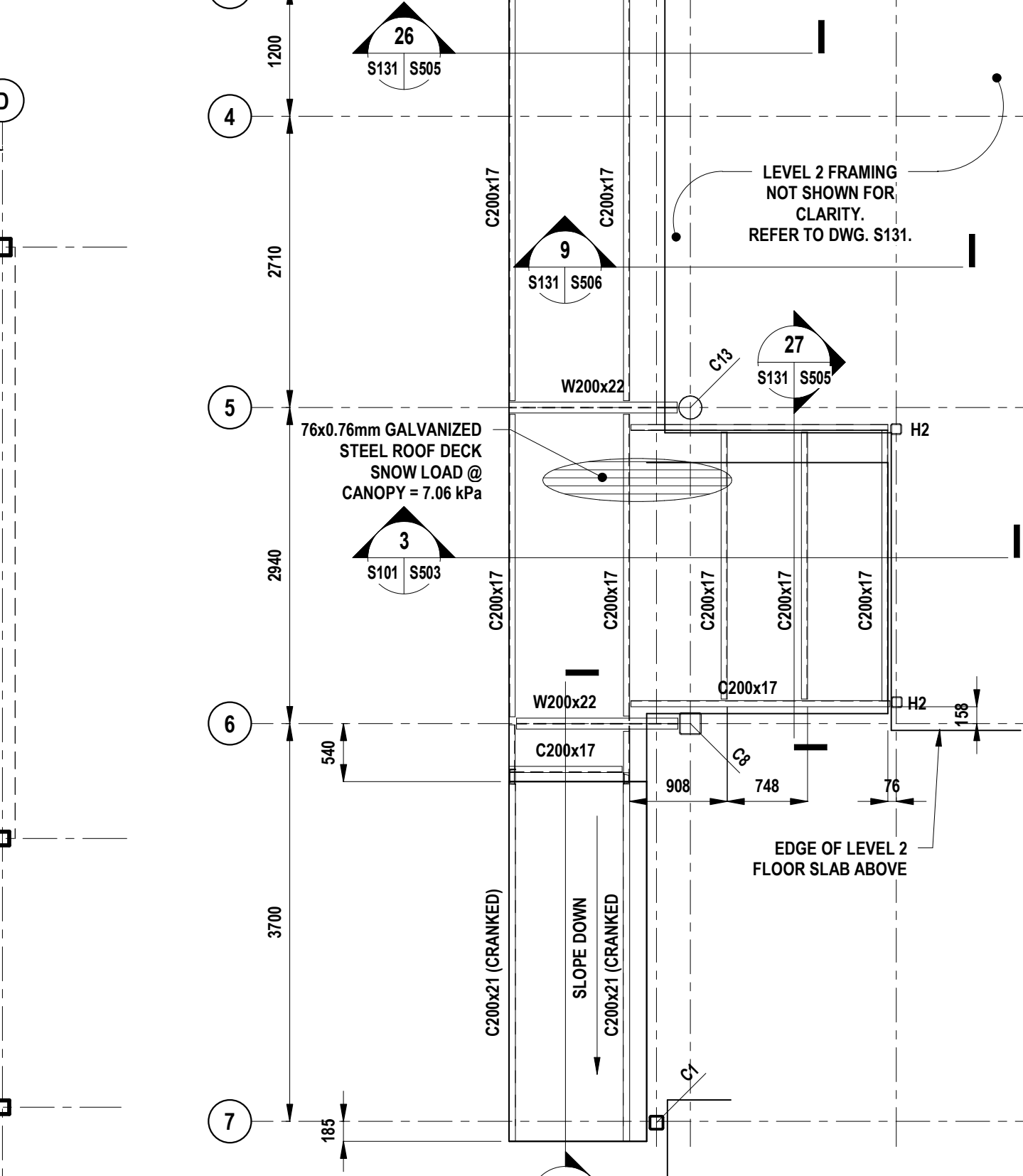
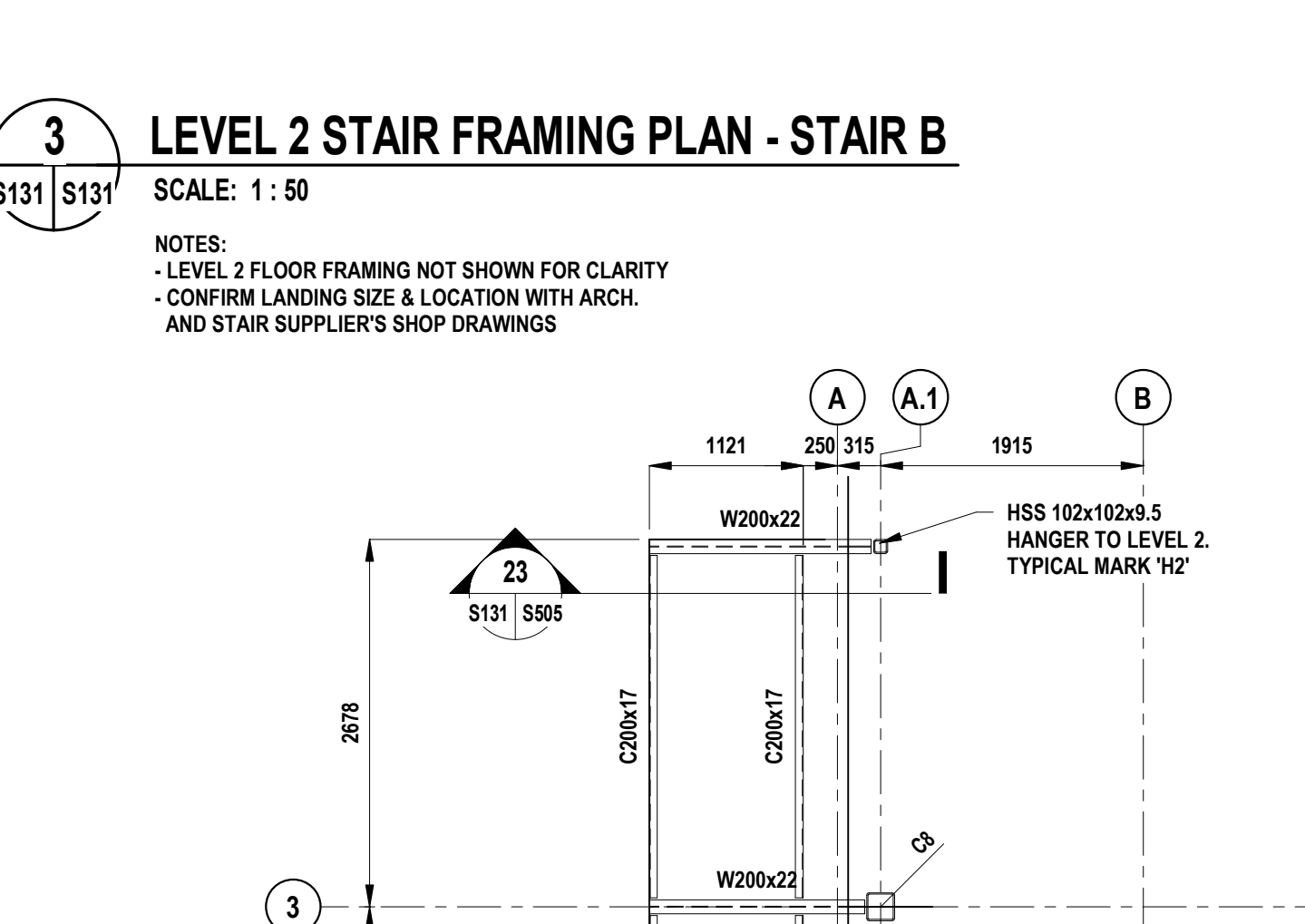
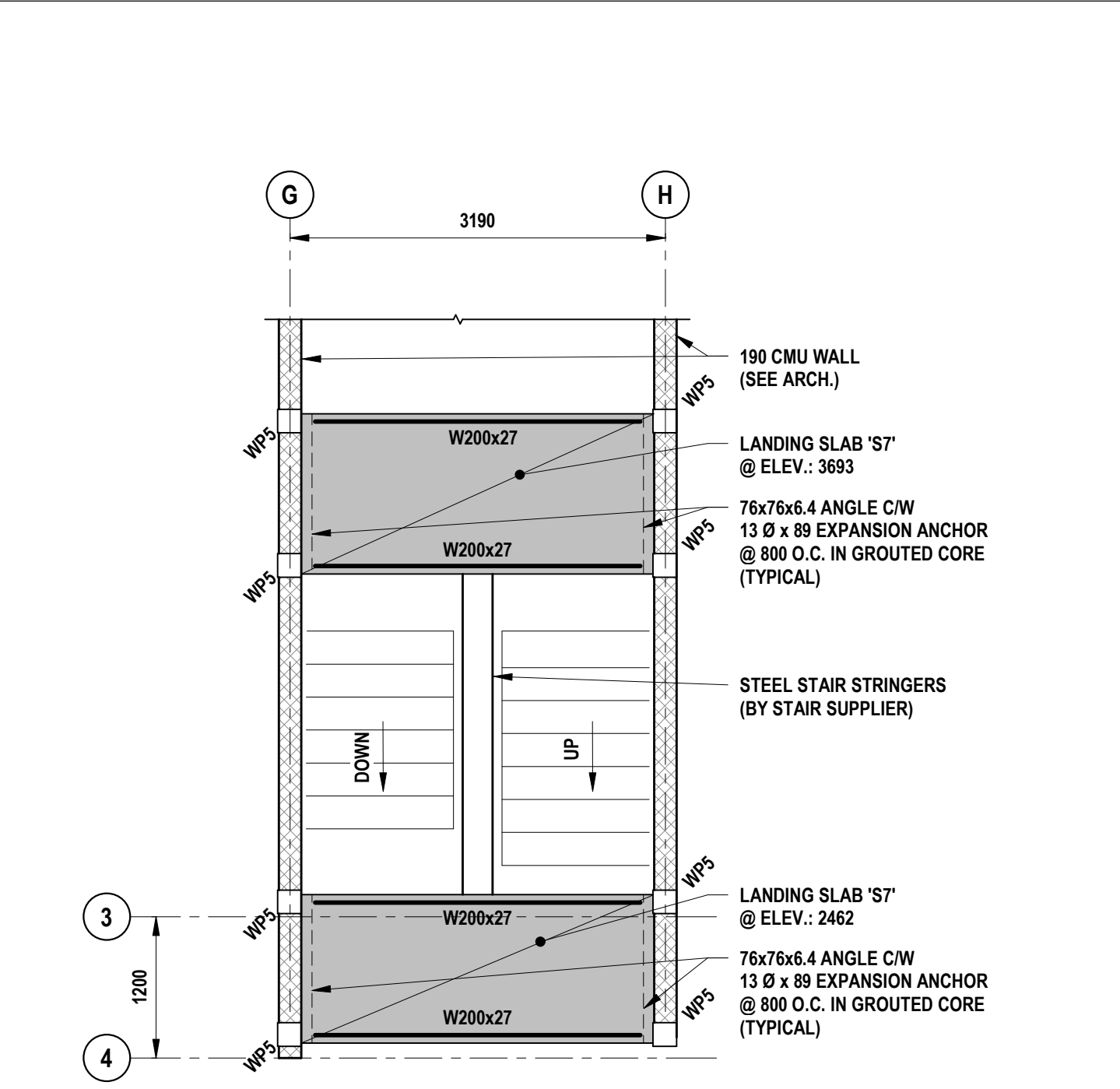
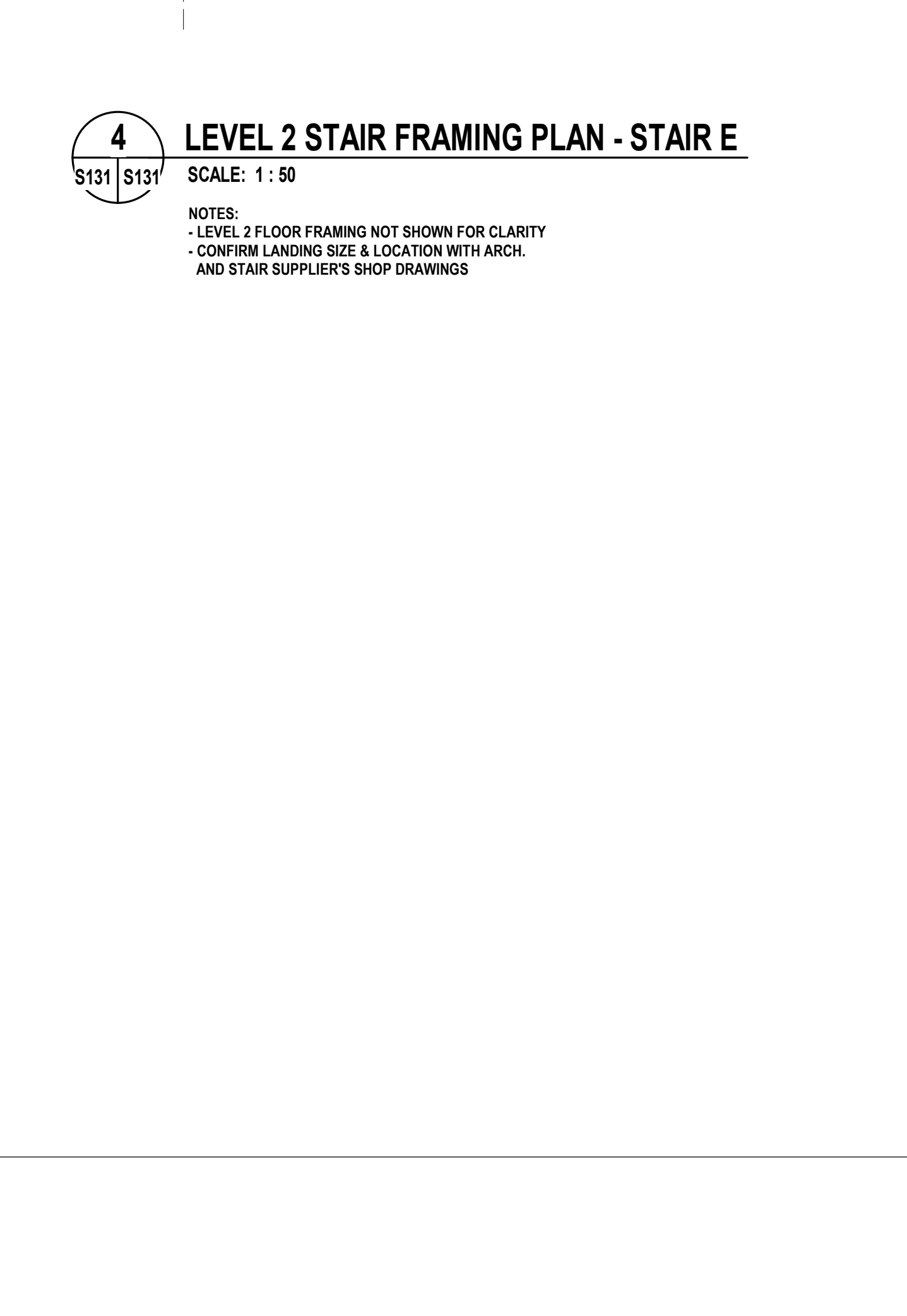
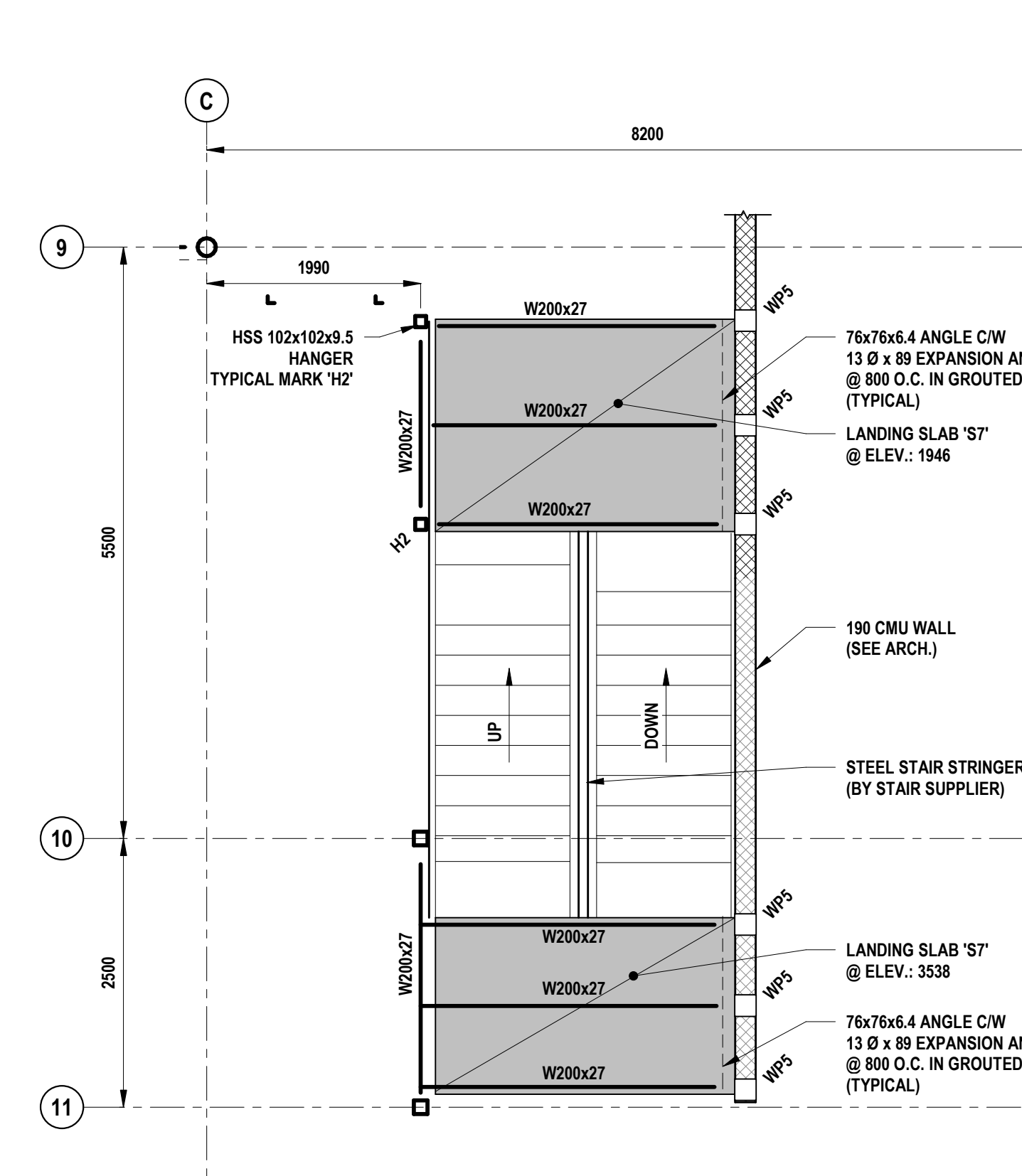
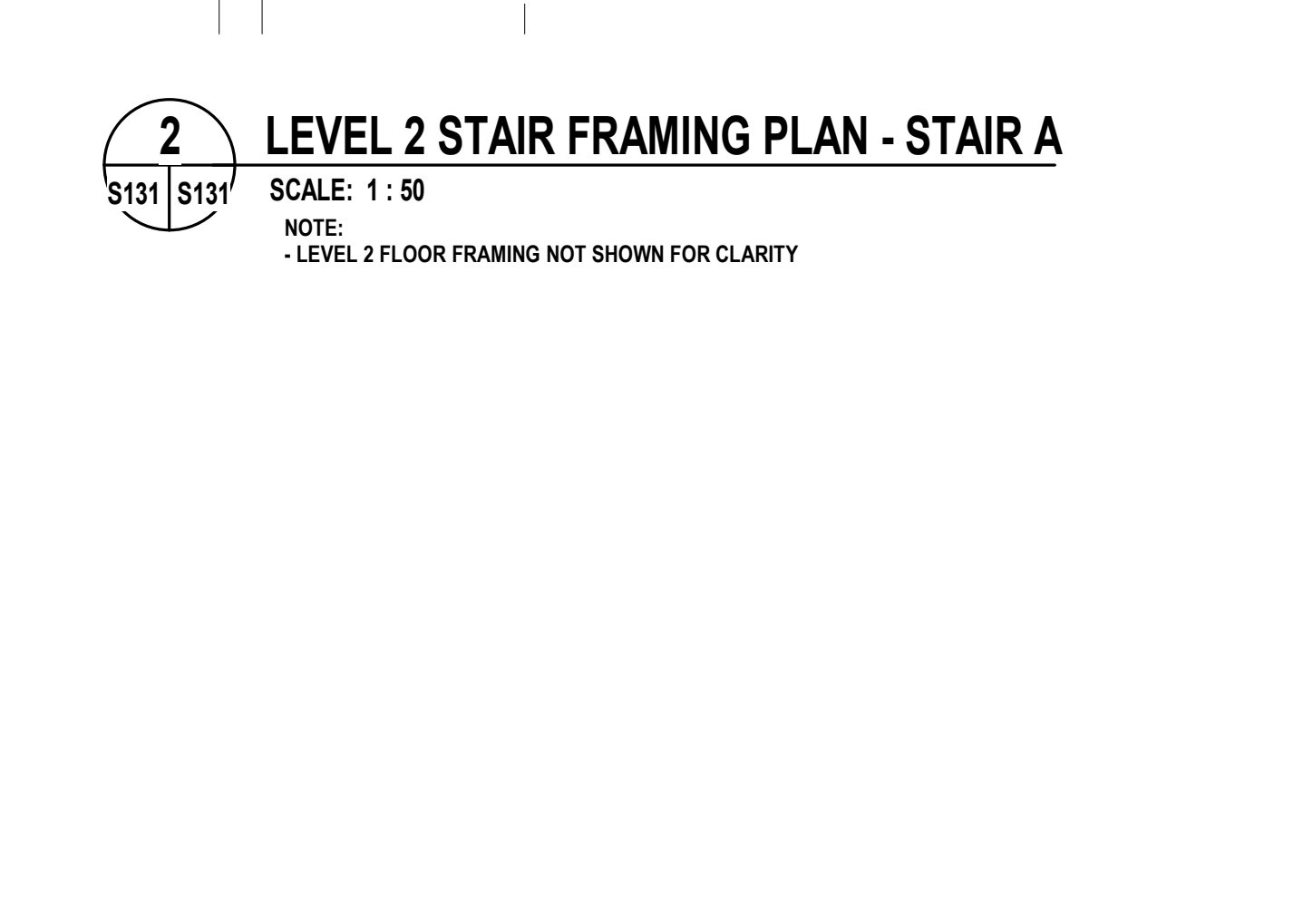
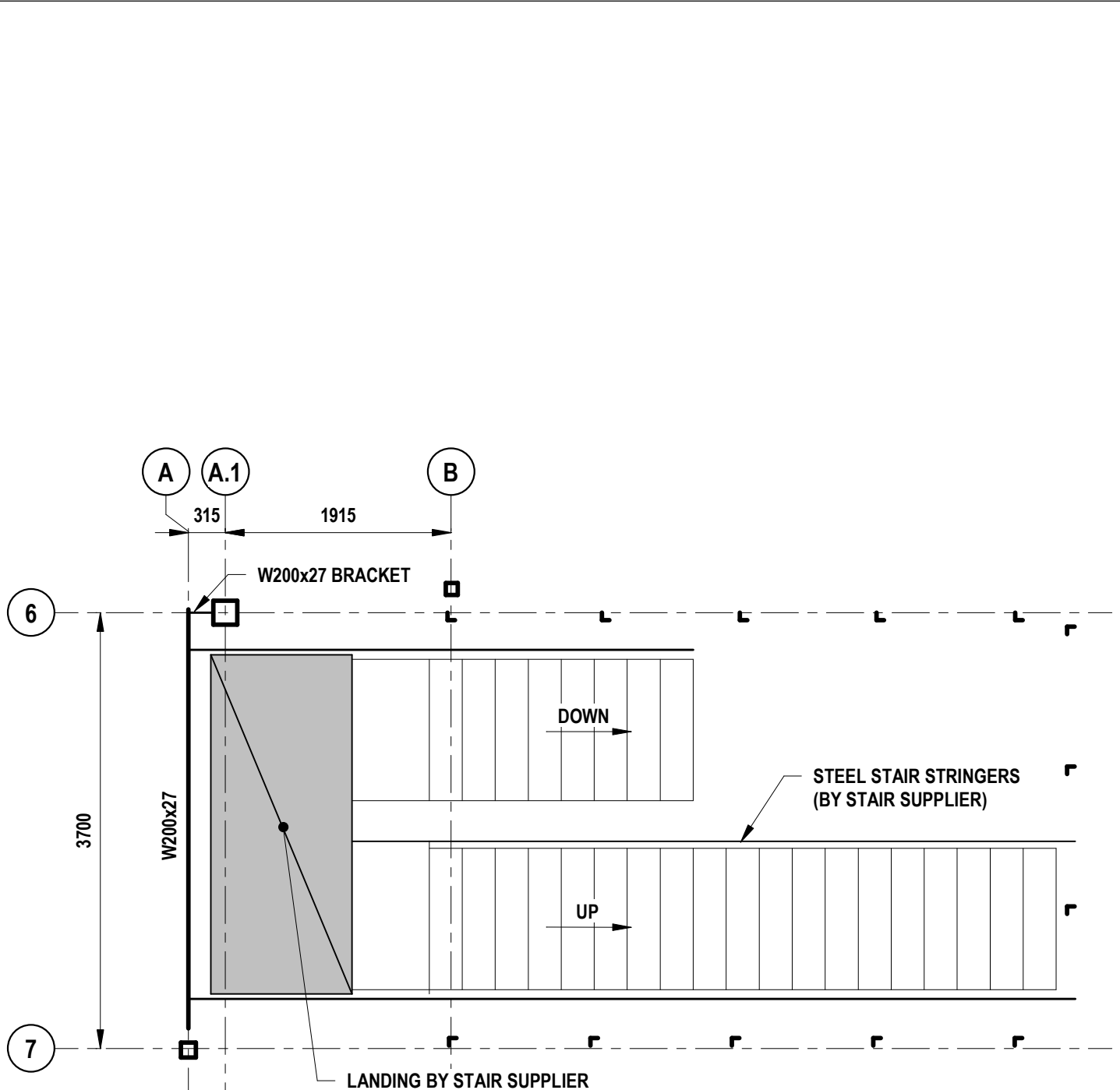
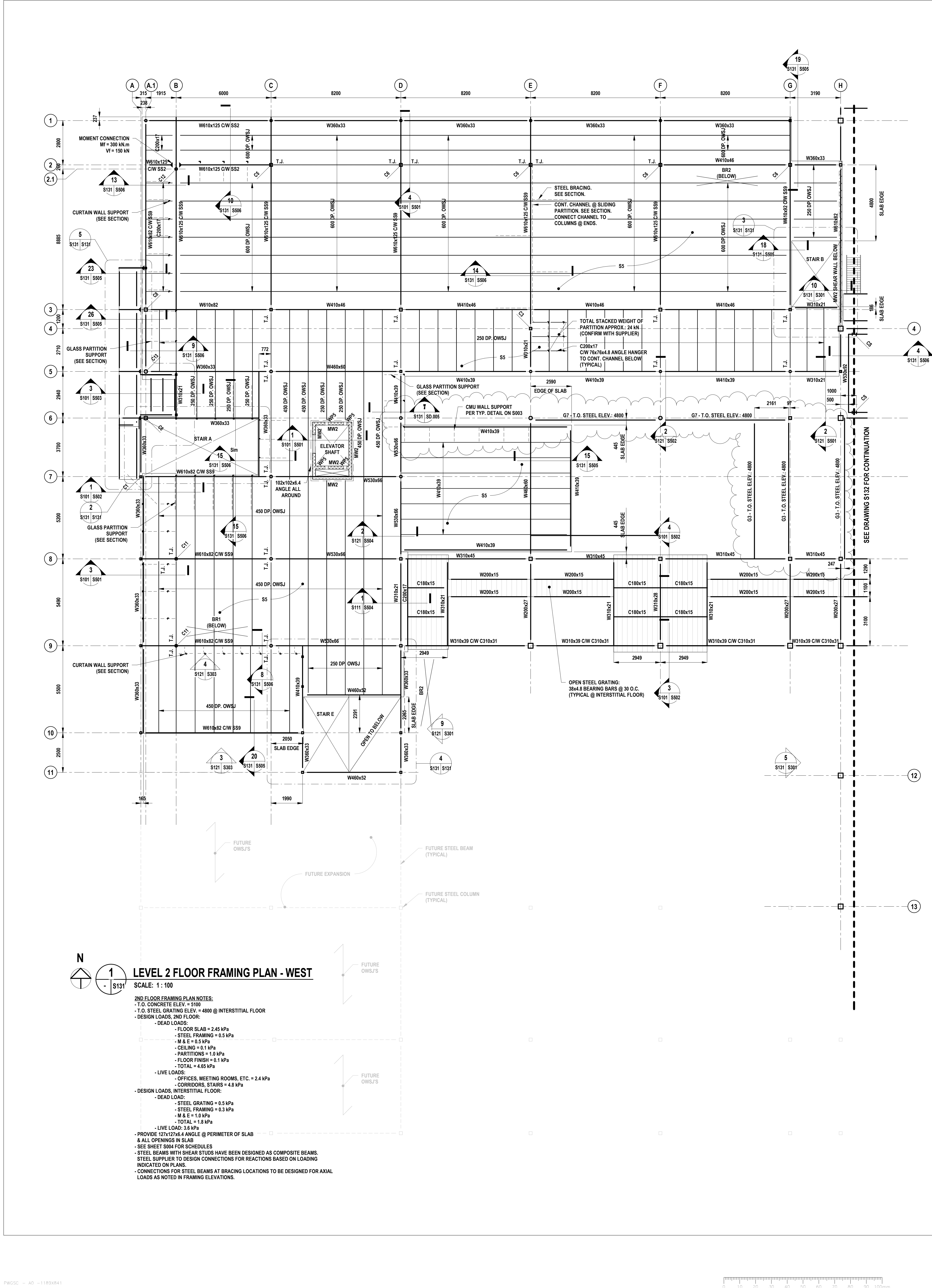
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No. 1912 Date: May 7, 2019

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<p>drawing</p> <p>SECTION</p>		

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REAL PROPERTY SERVICES

Western Region

SERVICES IMMOBILIERS

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ISSUED FOR ADDENDUM #2

2019/05/07

2

ISSUED FOR ADDENDUM #1

2019/04/23

1

ISSUED FOR TENDER

2019/03/28

No.

Description

Date

LDA

STRUCTURAL ENGINEERS

Laverne Draward & Associates Inc.

200-193 Dumoulin Street

Winnipeg, Manitoba R2H 0E4

Tel: (204)947-2322

Fax: (204)947-2322

E-mail: general@ldsaeng.ca

Web: www.ldsaeng.ca

Project Number: 18447

Number TEN Architectural Group

Diamond and Schmitt Architects Inc

Architects in Joint Venture

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7

Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca

310-115 Barnaby Avenue, Winnipeg Manitoba, R3B 0R3

Tel: 204 942 0981 winnipeg@numberten.com www.numberten.com

KOZARSKY

REGISTERED PROFESSIONAL ENGINEER

APGEM

Certificate of Authorization

Laverne Draward & Associates Inc.

No. 1912 Date: May 7, 2019

Project

NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG

Red File Road, Winnipeg, Manitoba

Designed by

Checked by

Drawn by

Reviewed by

Approved by

Approved by

DK

JN

DK

DK

DK

DK

Project Manager

Administrateur de Projets

KEVIN GALLAYS

FRÉDÉRIC

Drawing Title

Titre du dessin

LEVEL 2 FLOOR FRAMING PLAN - WEST

Scale: As indicated

Date: 2019/05/07

Project no./No. du projet

Drawing no./No. du dessin

Revision no.

MC-0209W

R.076945.001

1001 / 2016002

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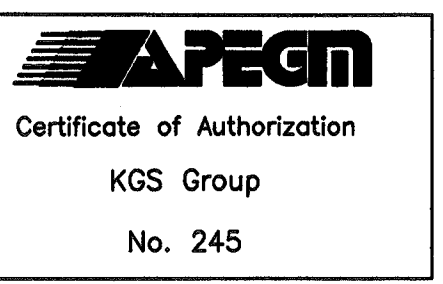
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2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
3. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

KGS
GROUP
CONSULTING
ENGINEERS

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7
Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca

310 -115 Bannatyne Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0981 winnipeg@numberten.com www.numberten.com



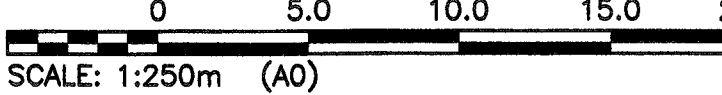
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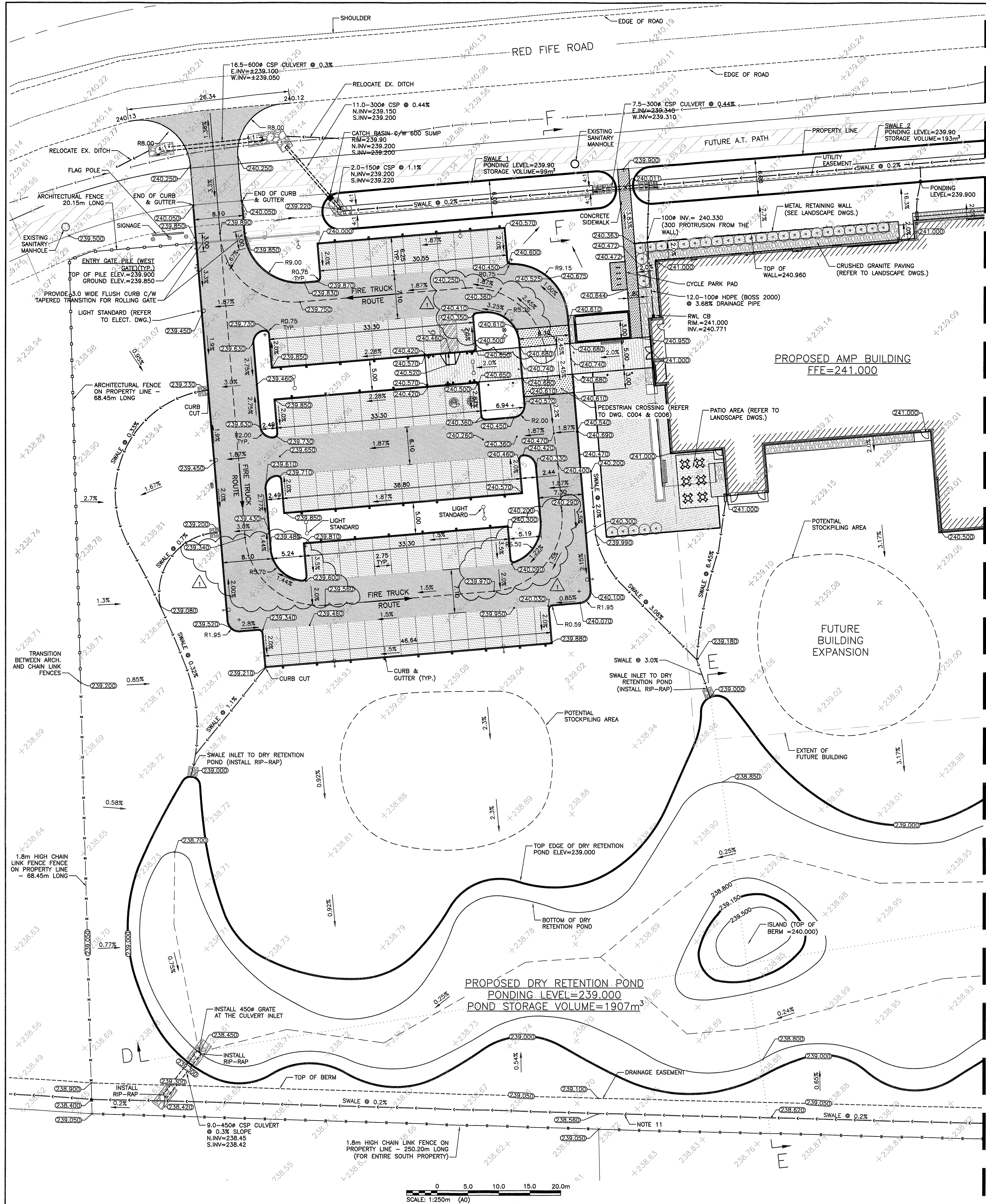
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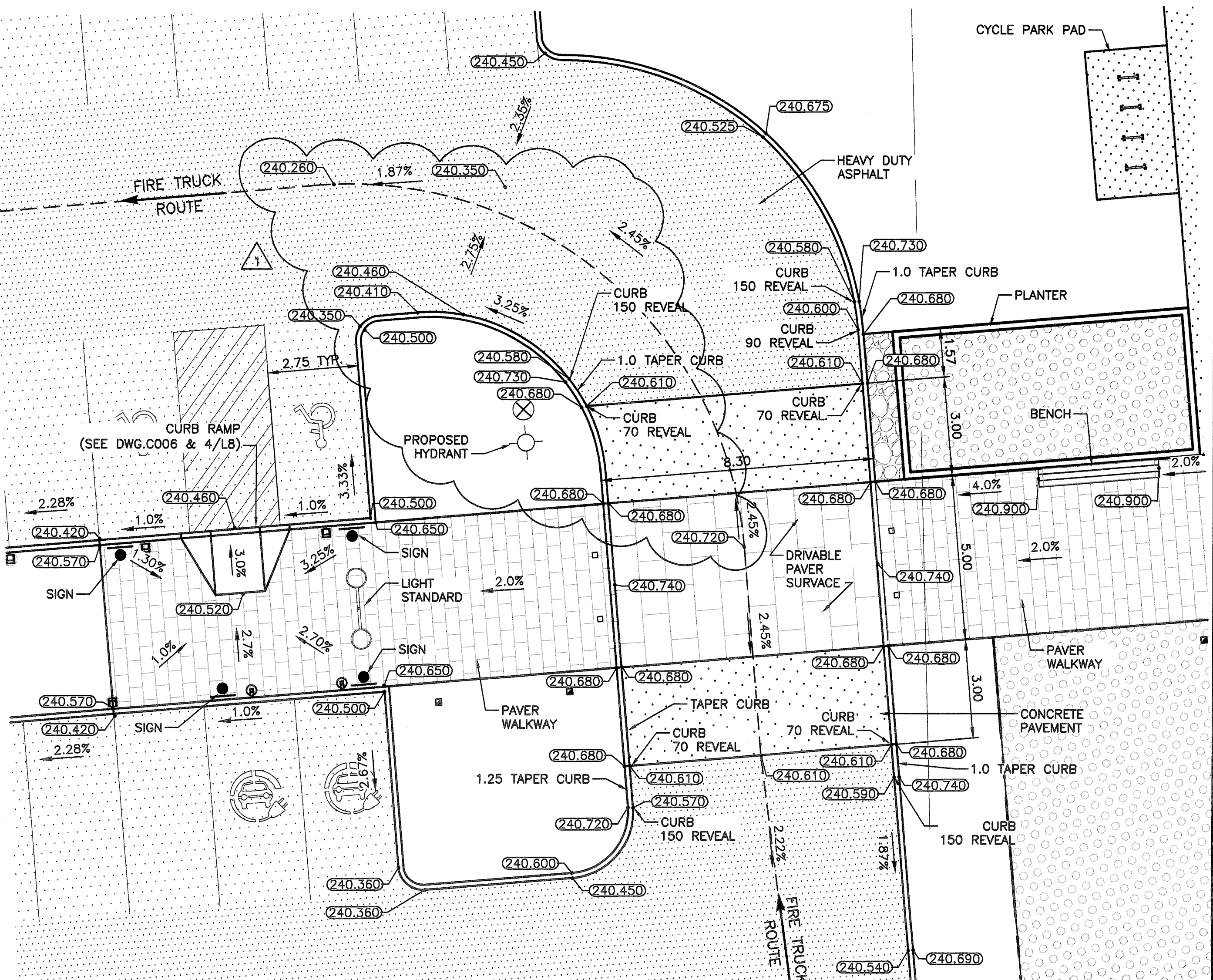
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P17	5533953.59	626155.46	239.17	240.500
P18	5533951.90	626135.28	239.04	240.500
P19	5533974.07	626133.42	239.15	241.000
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P25	5533983.60	626051.75	239.18	241.000
P26	5533982.90	626043.34	239.18	241.000
P27	5533994.03	626042.41	239.21	241.000
P28	5533993.87	626040.66	239.22	241.000
P29	5534004.84	626039.74	239.18	241.000
P30	5534005.00	626041.62	239.17	241.000
P31	5534039.67	625981.65	240.12	240.120
P32	5534039.58	625980.53	240.12	240.120
P33	5534030.94	625973.23	240.14	240.250
P34	5534023.83	625973.98	239.30	240.050
P35	5534010.69	625983.96	239.17	239.830
P36	5534010.86	625985.98	239.18	239.870
P37	5534011.51	625986.52	239.18	239.870
P38	5534016.99	625986.06	239.23	240.000
P39	5534019.54	626016.51	239.20	240.570
P40	5534014.25	626016.95	239.22	240.460
P41	5534013.70	626017.55	239.21	240.460
P42	5534018.79	625974.40	239.23	239.850
P43	5534005.25	626026.74	239.20	240.600
P44	5534000.76	626027.11	239.18	240.680
P45	5534002.07	626040.11	239.17	241.000
P46	5533998.69	626040.56	239.19	241.000
P47	5533995.78	626027.53	239.21	240.680
P48	5533980.75	626030.46	239.11	240.100
P49	5533958.65	626028.68	239.11	240.070
P50	5533958.28	626024.26	239.12	240.035
P51	5533957.63	626023.71	239.12	240.020
P52	5533952.15	626024.17	239.09	239.910
P53	5533948.25	625977.70	238.84	239.210
P54	5533953.73	625977.24	238.83	239.330
P55	5533954.28	625976.59	238.83	239.360
P56	5533954.04	625973.65	238.82	239.460
P57	5533955.82	625971.54	238.81	239.500
P58	5534023.13	625965.91	239.33	240.050
P59	5534029.54	625965.52	239.20	240.250
P60	5534036.79	625956.34	240.13	240.130
P61	5534036.66	625955.51	240.13	240.130
P62	5534000.74	625975.91	239.12	239.630
P63	5534002.74	625977.60	239.14	239.720
P64	5534002.26	625978.27	239.14	239.740
P65	5533996.71	625978.74	239.08	239.850
P66	5533999.49	626011.93	239.20	240.500
P67	5534004.97	626011.47	239.20	240.360
P68	5534005.62	626012.01	239.20	240.360
P69	5534005.72	626013.20	239.178	236.190
P70	5534003.75	626026.86	239.188	240.610
P71	5534001.03	626018.91	239.16	240.680
P72	5534000.07	626018.84	239.19	240.680
P73	5533992.10	626019.51	239.19	240.610
P74	5533988.85	626017.92	239.17	240.450
P75	5533988.48	626013.45	239.22	240.360
P76	5533989.03	626012.80	239.22	240.360
P77	5533994.51	626012.34	239.24	240.500
P78	5533991.73	625979.16	239.04	239.850
P79	5533986.25	625979.62	238.98	239.740
P80	5533985.60	625979.04	238.98	239.720
P81	5533987.28	625977.04	238.97	239.630
P82	5533977.22	625977.88	238.95	239.610
P83	5533979.22	625979.60	238.98	239.700
P84	5533978.67	625980.25	238.98	239.720
P85	5533973.19	625980.71	238.96	239.830
P86	5533976.43	626019.38	239.15	240.540
P87	5533981.91	626018.92	239.16	240.460
P88	5533982.56	626019.57	239.16	240.420
P89	5533980.87	626021.45	239.16	240.330
P90	5533971.90	626022.20	239.12	240.200

POINT TABLE				
POINT	NORTHING	EASTING	EX ELEV	PR ELEV
P91	5534034.49	626196.11	240.36	240.000
P92	5533965.41	626018.07	239.15	240.080
P93	5533965.74	626017.51	239.15	240.110
P94	5533971.22	626017.05	239.14	240.300
P95	5533968.44	625985.87	238.96	239.810
P96	5533962.96	625984.33	238.95	239.820
P97	5533962.39	625983.68	238.95	239.590
P98	5534014.20	625946.01	239.28	239.500
P99	5533967.45	625978.70	238.91	239.480
P100	5534056.00	626197.47	240.41	240.410
P101	5534055.57	626190.50	240.55	240.550
P102	5534042.93	626179.29	239.67	240.460
P103	5534030.51	626179.99	239.63	240.150
P104	5534028.96	626180.21	239.60	240.110
P105	5534014.41	626183.61	239.53	239.860
P106	5534009.22	626184.12	239.53	239.850
P107	5533994.86	626183.67	239.45	239.950
P108	5533991.84	626183.04	239.44	239.960
P109	5533983.75	626179.84	239.40	240.020
P110	5533980.72	626179.22	239.34	240.030
P111	5533989.80	626176.62	238.83	239.400
P112	5533984.13	626172.04	238.85	239.400
P113	5533982.34	626150.67	238.85	239.400
P114	5533986.91	626145.27	238.83	239.400
P115	5533952.39	626140.62	239.07	239.800
P116	5533952.94	626147.71	239.12	239.800
P117	5533945.33	626149.70	239.14	239.700
P118	5533943.21	626157.23	239.16	239.980
P119	5533948.59	626164.37	239.22	240.004
P120	5533968.06	626172.34	239.29	240.200
P121	5533968.71	626171.69	239.30	240.230
P122	5533968.88	626166.49	239.27	240.400
P123	5533989.07	626167.13	239.37	240.270
P124	5533988.89	626172.62	239.36	240.160
P125	5533989.47	626173.24	239.35	240.150
P126	5533998.21	626173.52	239.38	240.150
P127	5534008.13	626163.07	239.40	240.380
P128	5534007.12	626150.98	239.37	241.000
P129	5534019.96	626130.65	239.30	241.000
P130	5534022.84	626164.33	239.47	240.320
P131	5534031.43	626171.92	239.54	240.350
P132	5534039.19	626171.49	239.48	240.350
P133	5534042.32	626171.52	239.60	240.420
P134	5534053.63	626158.90	240.48	240.480
P135	5534053.42	626154.95	240.47	240.470
P136	5534033.19	626156.21	239.45	240.780
P137	5534007.19	626146.86	239.35	240.700
P138	5533984.24	626160.31	239.34	240.700
P139	5533982.56	626158.88	239.33	240.740
P140	5533958.28	626153.14	239.29	241.000
P141	5534057.14	626011.88	239.25	239.250
P142	5534056.14	626011.96	239.25	239.250
P143	5534004.85	626016.25	239.17	236.190
P144	5534002.93	626016.42	239.16	240.700
P145	5534001.93	626016.50	239.15	240.700
P146	5534027.34	626076.10	239.24	236.650
P147	5534017.34	626076.96	239.13	241.000
P148	5534032.12	625960.77	239.43	239.050
P149	5534033.83	625977.26	239.42	239.100
P150	5534032.64	625981.01	239.16	239.160
P151	5534022.58	625989.79	239.23	239.220
P152	5534025.70	626032.15	239.24	239.310
P153	5534026.34	626039.59	239.27	239.340
P154	5534048.35	626165.73	239.67	239.550
P155	5534049.70	626184.40	239.78	239.670
P156	5533978.70	625961.45	238.62	238.420
P157	5533985.86	625967.02	238.61	238.450
P158	5533929.15	625967.17	238.74	239.000
P159	5533921.26	625967.93	238.72	239.000
P160	5533908.59	625971.03	238.71	239.000
P161	5533901.23	625977.50	238.73	239.000
P162	5533987.79	625992.77	238.77	239.000
P163	5533901.75	626001.83	238.78	239.000
P164	5533909.36	626007.64	238.78	239.000
P165	5533913.58	626018.68	238.78	239.000
P166	5533912.64	626024.89	238.80	239.000
P167	5533915.74	626034.55	238.83	239.000
P168	5533925.92	626042.87	238.92	239.000
P169	5533935.75	626047.18	238.96	239.000
P170	5533941.18	626048.30	239.00	239.000
P171	5533942.82	626052.79	239.02	239.000
P172	5533937.13	626057.19	238.98	239.000
P173	5533926.01	626068.26	239.04	239.000
P174	5533924.89	626090.23	238.96	239.000
P175	5533929.63	626097.90	238.97	239.000
P176	5533931.11	626107.56	239.00	239.000
P177	5533933.86	626118.05	238.94	239.000
P178	5533937.39	626122.45	238.96	239.000
P179	5533930.56	626136.14	238.93	239.000
P180	5533919.69	626135.04	238.90	239.000

POINT TABLE				
POINT	NORTHING	EASTING	EX ELEV	PR ELEV
P181	5533988.88	626136.23	238.85	239.000
P182	5533980.43	626140.71	238.79	239.000
P183	5533979.85	626136.57	238.84	239.000
P184	5533977.67	626127.60	238.86	239.000
P185	5533982.32	626115.44	238.83	239.000
P186	5533986.12	626110.69	238.87	239.000
P187	5533986.63	626097.67	238.89	239.000
P188	5533981.63	626089.30	238.83	239.000
P189	5533980.94	626078.00	238.87	239.000
P190	5533982.04	626075.18	238.89	239.000
P191	5533985.00	626064.92	238.94	239.000
P192	5533982.33	626058.71	238.88	239.000
P193	5533981.86	626056.74	238.76	239.000
P194	5533986.82	626025.82	238.71	239.000
P195	5533986.31	626012.97	238.73	239.000
P196	5533981.82	626005.52	238.69	239.000
P197	5533980.61	625995.51	238.69	239.000
P198	5533982.51	625990.77	238.72	239.000
P199	5533982.34	625978.78	238.67	239.000
P200	5533981.63	625969.55	238.59	239.000
P201	5533980.61	625959.80	238.67	239.000
P202	5533989.14	625953.33	238.72	239.000
P203	5533915.88	625957.17	238.72	239.000
P204	5533929.87	625964.35	238.73	239.000
P205	5533915.94	625965.88	238.72	238.700
P206	5533903.18	625971.37	238.72	238.650
P207	5533996.05	625978.75	238.73	238.650
P208	5533993.08	625983.99	238.73	238.650
P209	5533996.23	626004.06	238.73	238.650
P210	5533998.34	626008.16	238.77	238.650
P211	5533991.24	626106.38	238.78	238.650
P212	5533909.23	626024.59	238.80	238.650
P213	5533913.77	626037.77	238.83	238.700
P214	5533985.45	626045.01	238.93	238.800
P215	5533928.41	626057.40	239.04	238.800
P216	5533920.07	626087.32	239.04	238.850
P217	5533921.46	626091.07	239.95	238.850
P218	5533923.82	626099.53	238.86	238.850
P219	5533927.96	626113.84	238.93	238.900
P220	5533931.66	626120.97	238.92	238.900
P221	5533923.25	626131.07	238.91	238.900
P222	5533982.16	626129.11	238.84	238.900
P223	5533982.46	626135.39	238.78	238.900
P224	5533982.14	626128.37	238.78	238.900
P225	5533986.20	626118.65	238.83	238.900
P226	5533981.69	626103.37	238.92	238.850
P227	5533989.38	626094.30	238.92	238.850
P228	5533985.59	626090.20	238.89	238.850
P229	5533984.96	626076.93	238.80	238.850
P230	5533987.22	626065.12	238.96	238.800
P231	5533985.12	626058.93	238.93	238.800
P232	5533985.30	626039.90	238.78	238.700
P233	5533989.83	626031.18	238.73	238.700
P234	5533981.75	626022.65	238.72	238.650
P235	5533989.49	626015.10	238.73	238.650
P236	5533984.96	626004.44	238.70	238.650
P237	5533984.60	625991.41	238.71	238.650
P238	5533985.56	625978.19	238.69	238.650
P239	5533986.43	625968.28	238.62	238.450
P240	5533985.85	625959.47	238.70	238.550
P241	5533911.11	625958.07	238.70	238.700
P242	5533916.81	625960.51	238.73	238.700
P243	5533914.04	626057.22	239.01	238.800
P244	5533909.68	626064.84	239.00	238.800
P245	5533905.69	626088.15	238.97	238.800
P246	5533900.50	626067.22	238.95	238.800
P247	5533986.74	626080.82	238.95	238.800
P248	5533994.45	626050.00	239.01	238.800
P249	5533984.58	626046.79	238.90	238.800
P250	5533984.64	626044.35	238.88	238.800
P251	5533904.07	626044.64	239.91	239.800
P252	5533911.39	626050.76	239.99	238.800
P253	5533911.51	626058.48	239.02	239.150
P254	5533906.49	626064.88	238.98	239.150
P255	5533902.03	626064.14	238.95	239.150
P256	5533998.42	626058.76	238.95	239.150
P257	5533998.02	626050.63	238.90	239.150
P258	5533902.16	626047.96	238.91	239.150
P259	5533998.30	626051.08	238.98	239.150
P260	5533909.47	626058.14	239.02	239.500
P261	5533906.78	626082.46	238.99	239.500
P262	5533903.73	626062.02	238.96	239.500
P263	5533900.40	626058.03	238.94	239.500
P264	5533905.34	626051.48	238.95	239.500
P265	5533986.74	626054.58	239.00	239.500
P266	5533993.15	625968.37	239.02	239.230
P267	5533968.28	625955.49	238.81	239.120
P268	5533970.11	625997.89	238.84	239.200
P269	5533958.06	625960.74	238.82	239.080
P270	5533949.31	625964.82	238.79	239.050



- NOTES
- ALL SURFACE WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF R.M. OF ROSSEY AND THE LATEST REVISION OF THE CITY OF WINNIPEG STANDARD CONSTRUCTION SPECIFICATIONS.
 - STANDARD DUTY ASPHALT PAVEMENT TO BE CONSTRUCTED IN AREAS OF PASSENGER VEHICLE STALLS (SEE DWG. C006 FOR DETAILS).
 - ALL WEST PARKING LOT DRIVE AISLES, ALL EAST LOADING PAVEMENT AND BOTH APPROACHES TO THE SITE TO BE CONSTRUCTED WITH HEAVY-DUTY ASPHALT PAVEMENT (SEE DWG. C006 FOR DETAILS). HEAVY DUTY ASPHALT IS DESIGNED FOR WB-20 (TAC-1999) VEHICLE. STANDARD DUTY ASPHALT IS DESIGNED FOR SMALL VEHICLES.
 - EXCAVATED CLAY FILL MATERIAL FROM SITE MAY BE USED TO FILL SUBGRADE BELOW PAVED SURFACE AREAS PROVIDED SUITABILITY OF THE MATERIAL IS INDEPENDENTLY VERIFIED BY GEOTECHNICAL ENGINEER AT CONTRACTOR'S EXPENSE. AND SUITABLE MATERIAL IS PLACED AND COMPACTED TO GEOTECHNICAL ENGINEER SPECIFIED REQUIREMENTS.
 - EXCAVATED CLAY FILL MATERIAL FROM SITE MAY NOT BE SUITABLE UNDERNEATH BUILDING. SEE STRUCTURAL ENGINEERING DESIGN DRAWINGS FOR INFORMATION REGARDING SUITABLE FILL BENEATH BUILDING FOOTPRINT.
 - TYPICAL CONCRETE SIDEWALK STRUCTURE: 100 BRUSHED CONCRETE, 150 BASE MATERIAL AND COMPACTED SUBGRADE (SEE DWG. C006 FOR DETAILS).
 - DESIGN GRADES SHOWN ON THE DRAWING ARE FINISHED PAVEMENT AND LANDSCAPE ELEVATIONS.
 - ALL CURBS IN THE PARKING AREA TO BE CURB AND GUTTER (C.O.W. DETAIL, SD-200). FOR CURB RAMP DETAIL SEE DETAIL ON LANDSCAPE DWG. 4/L8 AND C006.
 - INSTALL RIP-RAP AT ALL CULVERT ENDS. FOR MINIMUM SIZES REQUIRED FOR THE RIP-RAP AROUND CULVERTS SEE RIP-RAP DETAIL (DWG. C006).
 - INSTALL RIP-RAP AT SWALE INLETS TO THE DRY POND (SEE DWG. C006 FOR DETAILS).
 - FOR STORM WATER MANAGEMENT STORAGE CALCULATIONS SEE DWG. C005.
 - SWALE ALONG SOUTH PROPERTY LINE PROVIDES BACKUP OVERFLOW WHEN THE WATER LEVEL IN THE POND EXCEEDS THE MAXIMUM STORAGE WATER LEVEL.
 - FOR TRAFFIC SIGNAGE AND PAVEMENT MARKINGS SEE DWG.C007.
 - CONTACT THE RM OF ROSSEY AT 204-465-5958 FOR MUNICIPAL SERVICES APPLICATION APPROVAL AND INSPECTION PRIOR TO MAKING A CONNECTING TO THE EXISTING MUNICIPAL WASTEWATER SEWER AND WATER SERVICE STUBS.
 - CONTACT THE RM OF ROSSEY FOR LOT GRADE CONSTRUCTION INSPECTION UPON COMPLETION OF LOT GRADING.
 - CONTACT MANITOBA HYDRO TO CONFIRM DEPTH AND LOCATION OF EXISTING UTILITIES AND DISCUSS DEPTH OF PLANNED NORTH SWALE/UTILITY COVER PRIOR TO PROCEEDING WITH THE FINAL GRADING WORKS.



PEDESTRIAN CROSSING PLAN
SCALE: 1:100

BENCH MARK No. 16-002 (ELEV.=236.382) WEST SITE BROOKSIDE BLVD., NORTH OF INKSTER BLVD., NEAR No.1916 BROOKSIDE BLVD. BRASS PLUG IN 4.5m PILE, 18.0m SOUTH OF SOUTH WALL AND 46.5m EAST OF EAST WALL No. BROOKSIDE BLVD.

TEMPORARY BENCHMARKS (LIKELY NOT ACCURATE AS THEY WERE INSTALLED SEPT. 2017). CONTRACTOR TO CONFIRM PRIOR TO STARTING CONSTRUCTION.

T.B.M. 1 (ELEV.=239.00) IS THE TOP NORTHEAST CORNER OF THE MTS VAULT IN PUBLIC RESERVE B, ±46.7m EAST OF WEST PROPERTY LINE OF LOT 15 DEPOSIT 0882-2017 WLTO

T.B.M. 2 (ELEV.=240.39) IS THE TOP NORTHEAST CORNER OF THE MTS VAULT IN PUBLIC RESERVE B, ±40.9m EAST OF WEST PROPERTY LINE OF LOT 17 DEPOSIT 0882-2017 WLTO

LEGAL DESCRIPTION: N.W. 1/4 SECTION 22, TOWNSHIP 11, RANGE 2 E.M., LOT 15, LOT 16 AND LOT 17.

PROPERTY LIMITS DELINEATION
DELINEATION OF PROPERTY LIMITS AS SHOWN ON THIS DWG DOES NOT REPRESENT A "LEGAL SURVEY". KGS GROUP MAKES NO REPRESENTATION OR WARRANTY AS TO THE ACCURACY OF PROPERTY LIMITS DELINEATED ON THIS DWG, NOR ON THE DIMENSIONAL ACCURACY OF DWG FEATURES RELATIVE TO THESE PROPERTY LIMITS.

NOTE:
LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

WARNING
1. NOTIFY THE GAS COMPANY OF THE PROPOSED LOCATION OF EXCAVATION.
2. TAKE PRECAUTION TO AVOID DAMAGE TO GAS COMPANY INSTALLATIONS.
3. SEE PROVINCIAL REGULATION 210/72 FOR DETAILS.

METRIC
WHOLE NUMBERS INDICATE MILLIMETRES
DECIMALIZED NUMBERS INDICATE METRES

Public Works and Government Services Canada
Travaux publics et Services gouvernementaux Canada
REAL PROPERTY SERVICES
SERVICES IMMOBILIERS
Région de l'ouest

Western Region
CNR - CNRC
Western Region
CNR - CNRC

CONTRACTOR MUST CHECK & VERIFY ALL DIMENSIONS ON THE JOB
DO NOT SCALE DRAWINGS.
ALL DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS MUST BE RETURNED UPON REQUEST. REPRODUCTION OF DRAWINGS, SPECIFICATIONS AND RELATED DOCUMENTS IN ANY FORM OR BY ANY MEANS IS FORBIDDEN WITHOUT THE WRITTEN PERMISSION OF THE ARCHITECT.
THIS DRAWING IS NOT TO BE USED FOR CONSTRUCTION UNTIL SIGNED BY THE ARCHITECT.

ISSUED FOR ADDENDUM
0
ISSUED FOR TENDER
1
Description
Date
2019/05/06
2019/03/28

KGS GROUP
CONSULTING
ENGINEERS

Number TEN Architectural Group
Diamond and Schmitt Architects Inc
Architects in Joint Venture

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1B7
Tel: 416 862 8800 Fax: 416 862 3508 info@dsai.ca www.dsai.ca
310-115 Barnhart Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0881 winnipeg@numberten.com www.numberten.com

Province of Manitoba
Architect
Member
131615
Professional

Project
NRC ADVANCED
MANUFACTURING PROGRAM
(AMP) - WINNIPEG

2890 Red Fife Road,
Winnipeg,
Manitoba

Designed by
MID
Checked by
JMM
Approved by
JMM
Project Manager
Administrateur de Projets TPOC

Comp per
Designé per
Approuvé per
Titre du chef

LOT GRADING & LAND DRAINAGE PLAN
(WEST)

Scale: AS NOTED
Date: 2018/07/27
Project no./No. du projet
Drawing no./No. du dessin
Revision no.

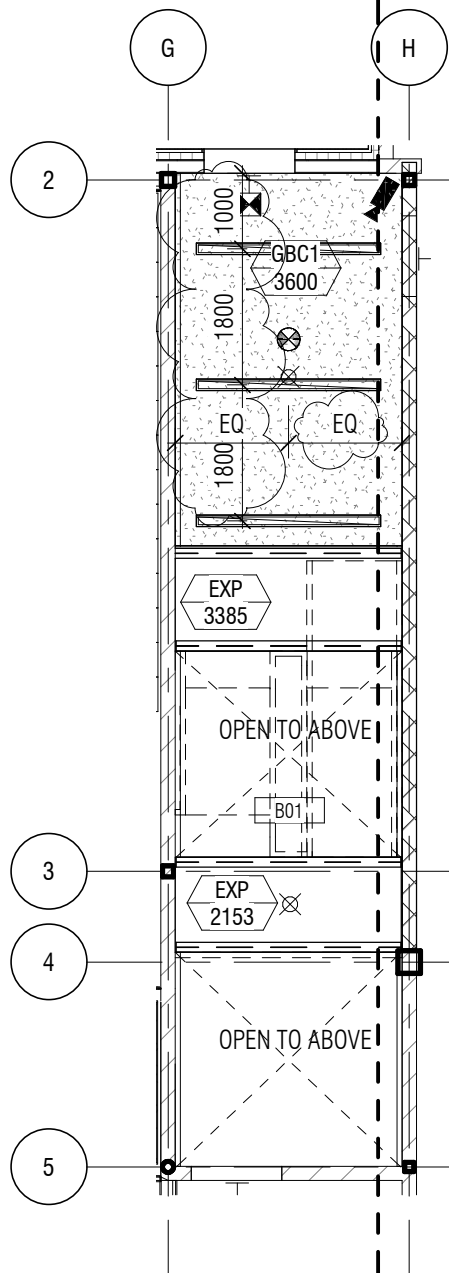
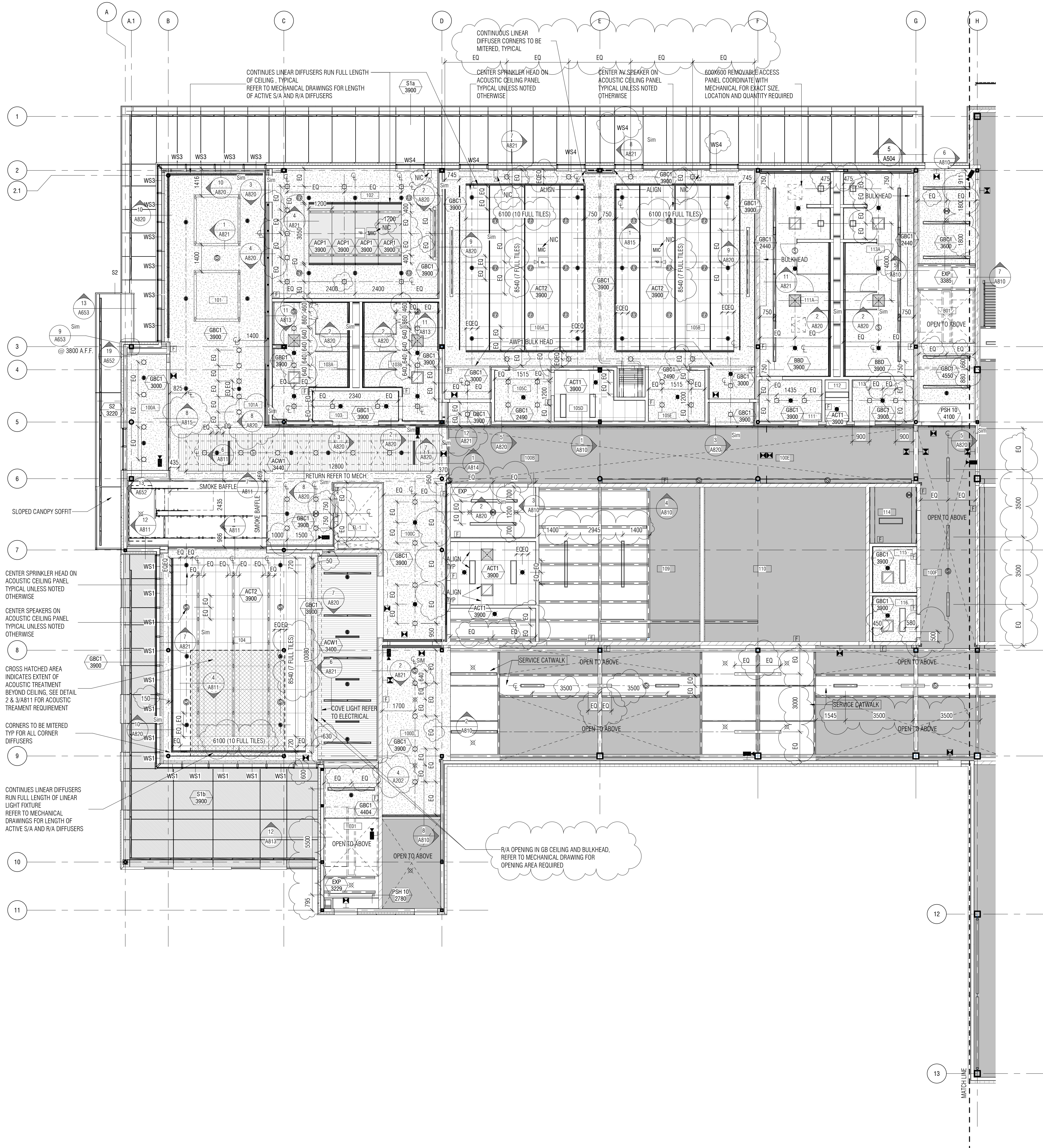
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1639/2018082

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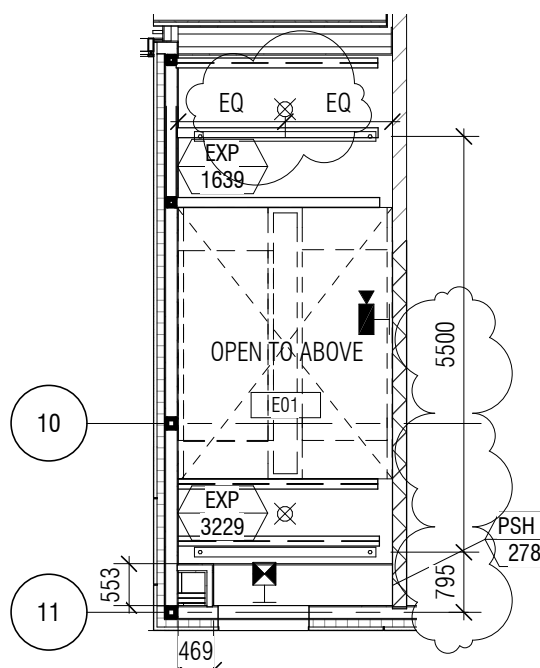
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2 LEVEL 1 WEST - STAIR B @ LANDINGS
A202 1:100



3 LEVEL 1 WEST - STAIR E @ LANDINGS
A202 1:100

- CEILING LEGEND**
- TYPE 3000
 - RECESSED POTLIGHT
 - PENDANT LIGHT FIXTURE
 - WALL MOUNTED LINEAR LUMINAIRE
 - RECESSED LUMINAIRE
 - SURFACE MOUNTED LUMINAIRE
 - SUSPENDED LUMINAIRE
 - SPRINKLER HEAD - UPRIGHT
 - SPRINKLER HEAD - CONCEALED
 - SPRINKLER HEAD - PENDANT
 - SPRINKLER HEAD - SIDE WALL WINDOW
 - SUPPLY AIR DIFFUSER
 - RETURN AIR DIFFUSER
 - LINEAR DIFFUSER
 - ACCESS PANEL
 - PROJECTION SCREEN
 - OCCUPANCY SENSOR
 - DAYLIGHT SENSOR
 - SPECIALTY SENSOR
 - SPEAKER - LOW LEVEL PAGING
 - SPEAKER - AUDIO VISUAL
 - FIRE ALARM - STROBE
 - FIRE ALARM - SPEAKER HORN/STROBE
 - SMOKE DETECTOR
 - EXIT SIGN - CEILING MOUNTED
 - EXIT SIGN - WALL MOUNTED
 - CAMERA - SECURITY
 - CAMERA - SECURITY WALL MOUNTED
 - CAMERA - VIDEO CONFERENCE
 - SUSPENDED PROJECTOR (N.I.C.)
 - MICROPHONE

- WS1 WINDOW SHADE MANUAL CHAIN ROLLER SHADES - MANUAL
- WS3 WINDOW SHADE - MOTORIZED
- WS4 WINDOW SHADE ROLLER BLACKOUT - MOTORIZED
- GB01 GYPSUM BOARD
- GB02 ACOUSTIC GYPSUM BOARD CEILING
- BB0 GYPSUM BOARD
- ACT1 ACOUSTIC CEILING TILES 610 X 1220
- ACT2 ACOUSTIC CEILING TILES 610 X 1220
- ACW1 ACOUSTIC WOOD PANEL
- ACW1 - ACCESSIBLE WOOD CEILING PANEL
- ACP CUSTOM SIZE PRE-FINISHED ACOUSTIC PANEL
- OPEN TO ABOVE

- CEILING GENERAL NOTES**
- REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED FIXTURES AND MECHANICAL AND ELECTRICAL EQUIPMENT. POSITIONING OF ALL MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT SHALL BE GOVERNED BY ARCHITECTURAL DRAWINGS SUBJECT TO FULL COMPLIANCE WITH CODE REQUIREMENTS. REPORT ANY DISCREPANCIES BETWEEN ENGINEERING AND ARCHITECTURAL DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
 - REFER TO AUDIOVISUAL DRAWINGS FOR ALL AUDIOVISUAL CEILING MOUNTED FIXTURES AND EQUIPMENT. POSITIONING OF ALL AUDIOVISUAL FIXTURES AND EQUIPMENT SHALL BE GOVERNED BY ARCHITECTURAL DRAWINGS SUBJECT TO FULL COMPLIANCE WITH AUDIOVISUAL REQUIREMENTS. REPORT ANY DISCREPANCIES BETWEEN AUDIOVISUAL AND ARCHITECTURAL DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
 - ALL FUTURE LAYOUT DIMENSIONS PROVIDED ARE TO FACE OF FINISHED WALL UNLESS INDICATED OTHERWISE.
 - ALL EXPOSED STRUCTURAL MEMBERS TO BE PAINTED.

2	ISSUED FOR ADDENDUM NO.2	2019/05/09
1	ISSUED FOR TENDER	2019/03/28
No.	Description	Date

Number TEN Architectural Group
Diamond and Schmitt Architects Inc
Architects in Joint Venture

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7
Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca

310-115 Barnaby Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0981 winnipeg@number10.com www.number10.com



Project

NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG

Red Fire Road, Winnipeg, Manitoba

Designed by
CL/MK

Drawn by
TR

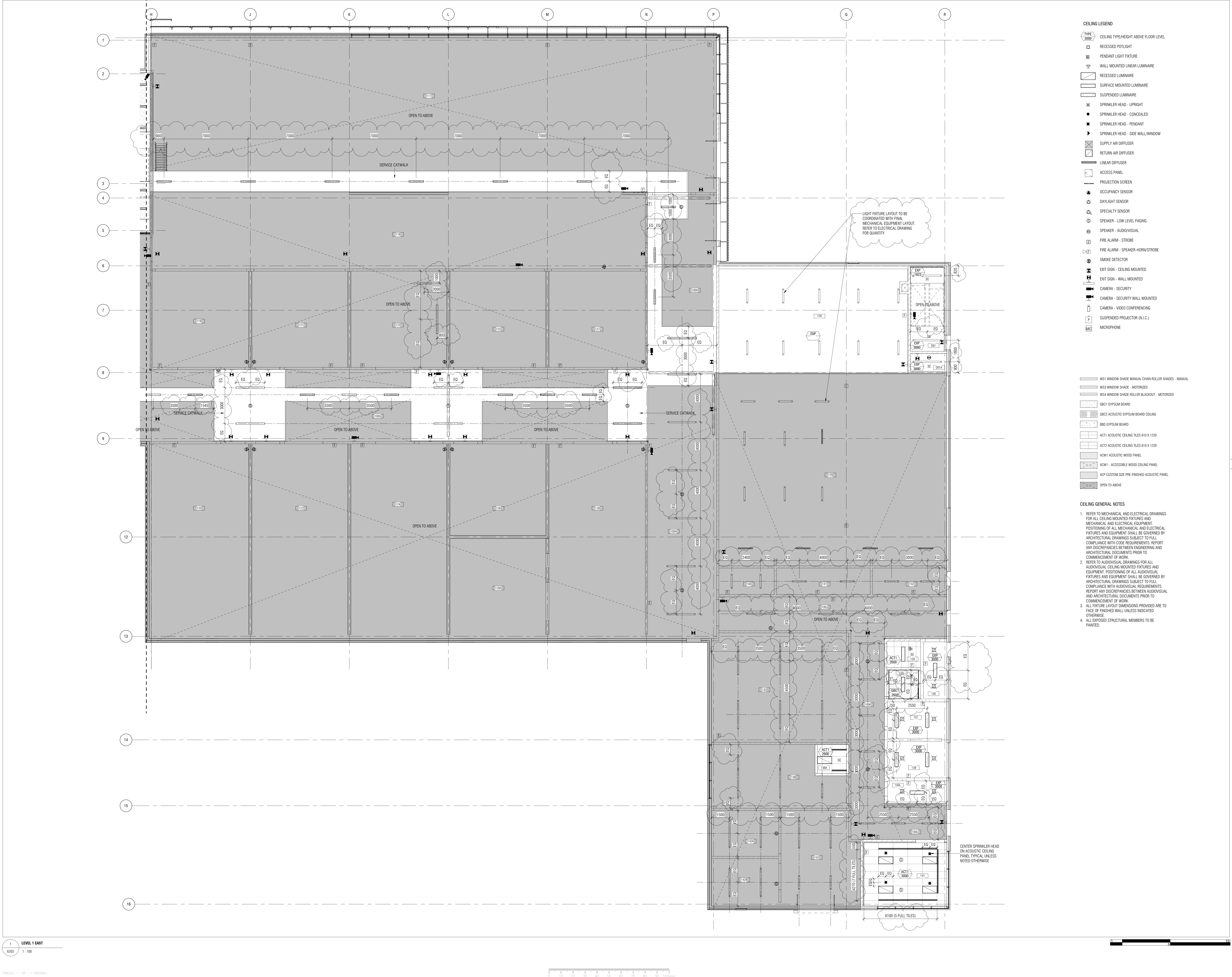
Approved by
DH/JF

PW03C Project Manager
KEVIN GALLAYS

Drawing Title
RCP - LEVEL 1 - WEST

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Public Works and Government Services Canada

Travaux publics et Services gouvernementaux Canada

REAL PROPERTY SERVICES
Western Region
SERVICES IMMOBILIERS
Région de l'ouest

Client

NRC - CNRC
National Research Council Canada / Conseil national de recherches Canada

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2	ISSUED FOR ADDENDUM NO.2	2019/05/09
1	ISSUED FOR TENDER	2018/03/28

No.	Description	Date

Number TEN Architectural Group
Diamond and Schmitt Architects Inc
Architects in Joint Venture

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7
Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca

310 -115 Bannatyne Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0981 winnipeg@numberten.com www.numberten.com

Project

NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG

Red File Road, Winnipeg, Manitoba

Designed by
CL/MLK

Drawn by
TR

Approved by
DH/JF

Project Manager
KEVIN GALLAGHER

Drawing Title
RCP - LEVEL 1- EAST

Scale: 1 : 100

Date: 2019/05/09

Project no./No. du projet: M42000W
Drawing no./No. du dessin: R.070948.001
Revision no.: 1639/2016082

A203

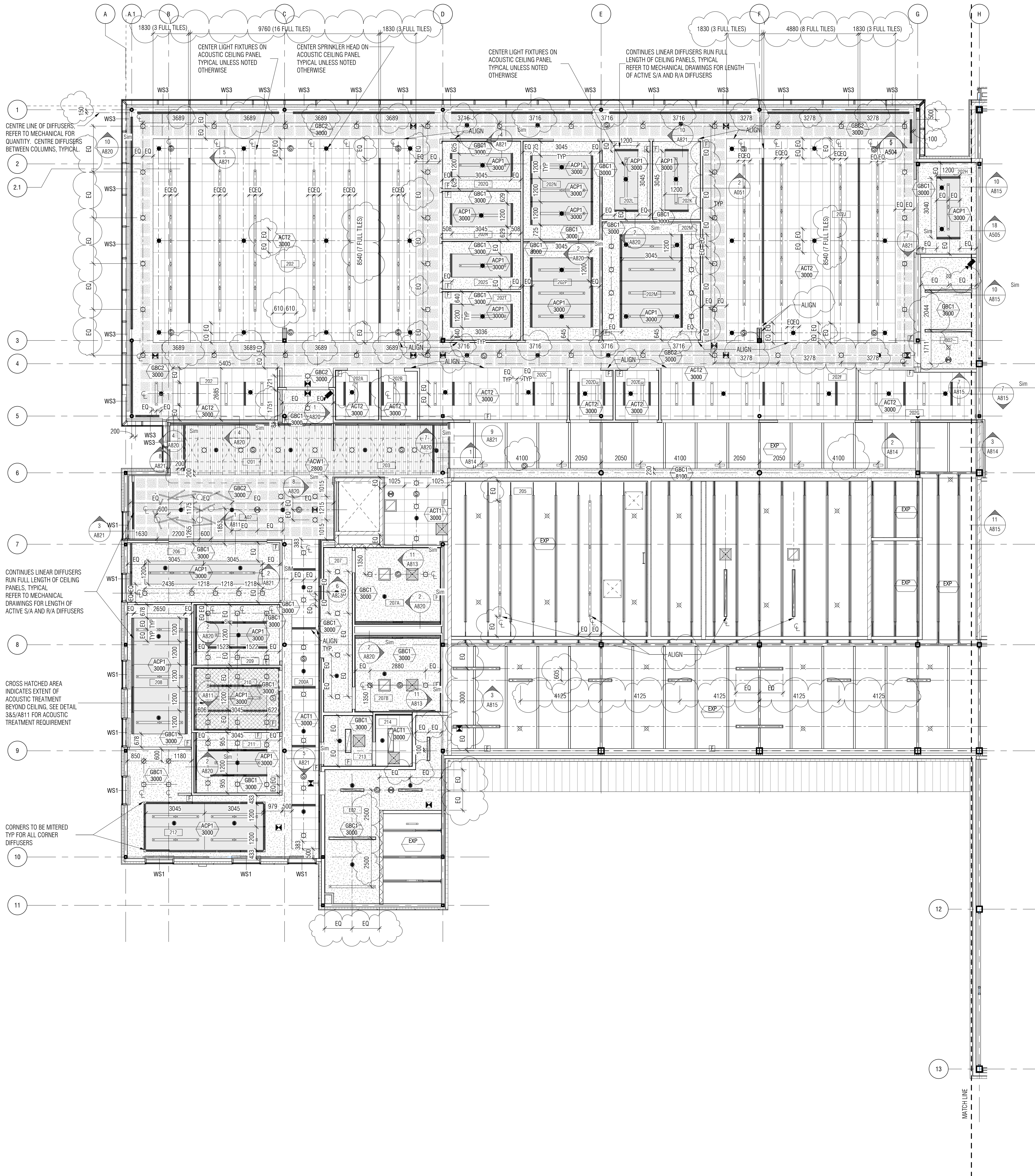
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A204
1:100

PW03C - AD - 11/25/2014



CEILING LEGEND

- TYPE 3000 CEILING TYPE/HEIGHT ABOVE FLOOR LEVEL
- RECESSED POTLIGHT
- PENDANT LIGHT FIXTURE
- WALL MOUNTED LINEAR LUMINAIRE
- RECESSED LUMINAIRE
- SURFACE MOUNTED LUMINAIRE
- SUSPENDED LUMINAIRE
- SPRINKLER HEAD - UPRIGHT
- SPRINKLER HEAD - CONCEALED
- SPRINKLER HEAD - PENDANT
- SPRINKLER HEAD - SIDE WALL/WINDOW
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER
- LINEAR DIFFUSER
- ACCESS PANEL
- PROJECTION SCREEN
- OCCUPANCY SENSOR
- DAYLIGHT SENSOR
- SPECIALTY SENSOR
- SPEAKER - LOW LEVEL PAGING
- SPEAKER - AUDIO/VIDEO
- FIRE ALARM - STROBE
- FIRE ALARM - SPEAKER/HORN/STROBE
- SMOKE DETECTOR
- EXIT SIGN - CEILING MOUNTED
- EXIT SIGN - WALL MOUNTED
- CAMERA - SECURITY
- CAMERA - SECURITY WALL MOUNTED
- CAMERA - VIDEO CONFERENCING
- SUSPENDED PROJECTOR (N.I.C.)
- MICROPHONE

- WS1 WINDOW SHADE MANUAL CHAIR ROLLER SHADES - MANUAL
- WS3 WINDOW SHADE - MOTORIZED
- WS4 WINDOW SHADE ROLLER BLACKOUT - MOTORIZED
- GBC1 GYPSUM BOARD
- GBC2 ACOUSTIC GYPSUM BOARD CEILING
- BBO GYPSUM BOARD
- ACT1 ACOUSTIC CEILING TILES 610 X 1220
- ACT2 ACOUSTIC CEILING TILES 610 X 1220
- ACW1 ACOUSTIC WOOD PANEL
- ACW1 - ACCESSIBLE WOOD CEILING PANEL
- ACP CUSTOM SIZE PRE-FINISHED ACOUSTIC PANEL
- OPEN TO ABOVE

CEILING GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED FIXTURES AND MECHANICAL AND ELECTRICAL EQUIPMENT. POSITIONING OF ALL MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT SHALL BE GOVERNED BY ARCHITECTURAL DRAWINGS SUBJECT TO FULL COMPLIANCE WITH CODE REQUIREMENTS. REPORT ANY DISCREPANCIES BETWEEN ENGINEERING AND ARCHITECTURAL DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
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3. ALL FIXTURE LAYOUT DIMENSIONS PROVIDED ARE TO FACE OF FINISHED WALL UNLESS INDICATED OTHERWISE.
4. ALL EXPOSED STRUCTURAL MEMBERS TO BE PAINTED.

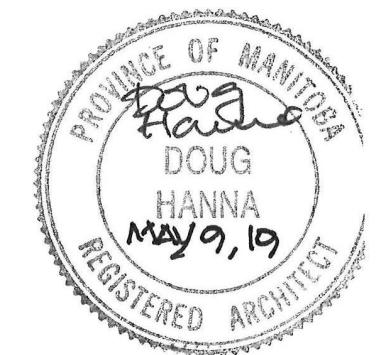
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2	ISSUED FOR ADDENDUM NO.2	2019/05/09
1	ISSUED FOR TENDER	2019/03/28
No.	Description	Date

Number TEN Architectural Group
Diamond and Schmitt Architects Inc
Architects in Joint Venture

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7
Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca
310-115 Bannatyne Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0981 winnipeg@numberten.com www.numberten.com



Project
NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG

Red Fife Road, Winnipeg, Manitoba

Designed by
CL/MK

Drawn by
TR

Approved by
DH/JF

PW03C Project Manager
KEVIN GALLAGHER

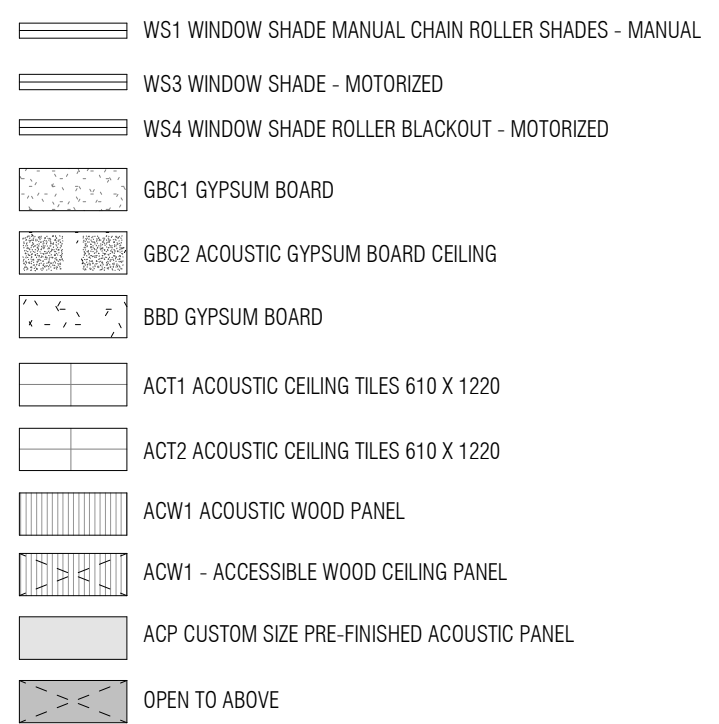
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Project no./No. du projet
NRC-0209W
R.076948.001
1639/2016082

A204

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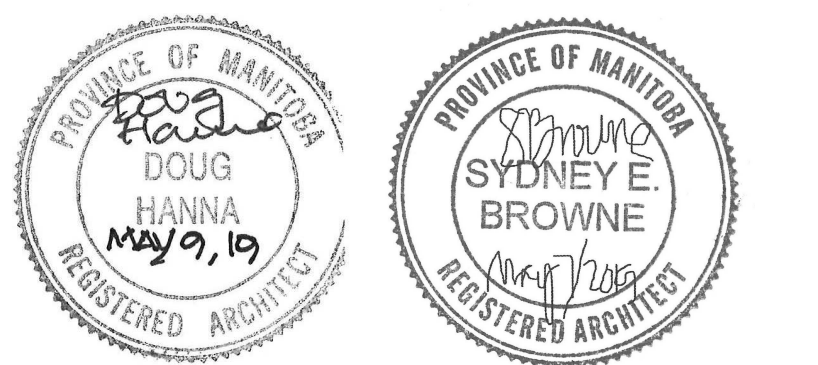


CEILING GENERAL NOTES

1. REFER TO MECHANICAL AND ELECTRICAL DRAWINGS FOR ALL CEILING MOUNTED FIXTURES AND MECHANICAL AND ELECTRICAL EQUIPMENT. POSITIONING OF ALL MECHANICAL AND ELECTRICAL FIXTURES AND EQUIPMENT SHALL BE GOVERNED BY ARCHITECTURAL DRAWINGS SUBJECT TO FULL COMPLIANCE WITH CODE REQUIREMENTS. REPORT ANY DISCREPANCIES BETWEEN ENGINEERING AND ARCHITECTURAL DOCUMENTS PRIOR TO COMMENCEMENT OF WORK.
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3. ALL FIXTURE PLACEMENT DIMENSIONS PROVIDED ARE TO FACE OF SHEET WALL UNLESS INDICATED OTHERWISE.
4. ALL EXPOSED STRUCTURAL MEMBERS TO BE PAINTED.

384 Adelaide Street West, Suite 100, Toronto, Canada M5V 1R7
Tel: 416 862 8800 Fax: 416 862 5508 info@dsai.ca www.dsai.ca

310 -115 Bannatyne Avenue, Winnipeg Manitoba, R3B 0R3
Tel: 204 942 0981 winnipeg@numberten.com www.numberten.com



Red Fife Road, Winnipeg,
Manitoba

Designed by Conç. por

Approved by	Approuvé par
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PWGSC Project Manager Administrateur de Projets TPSGC

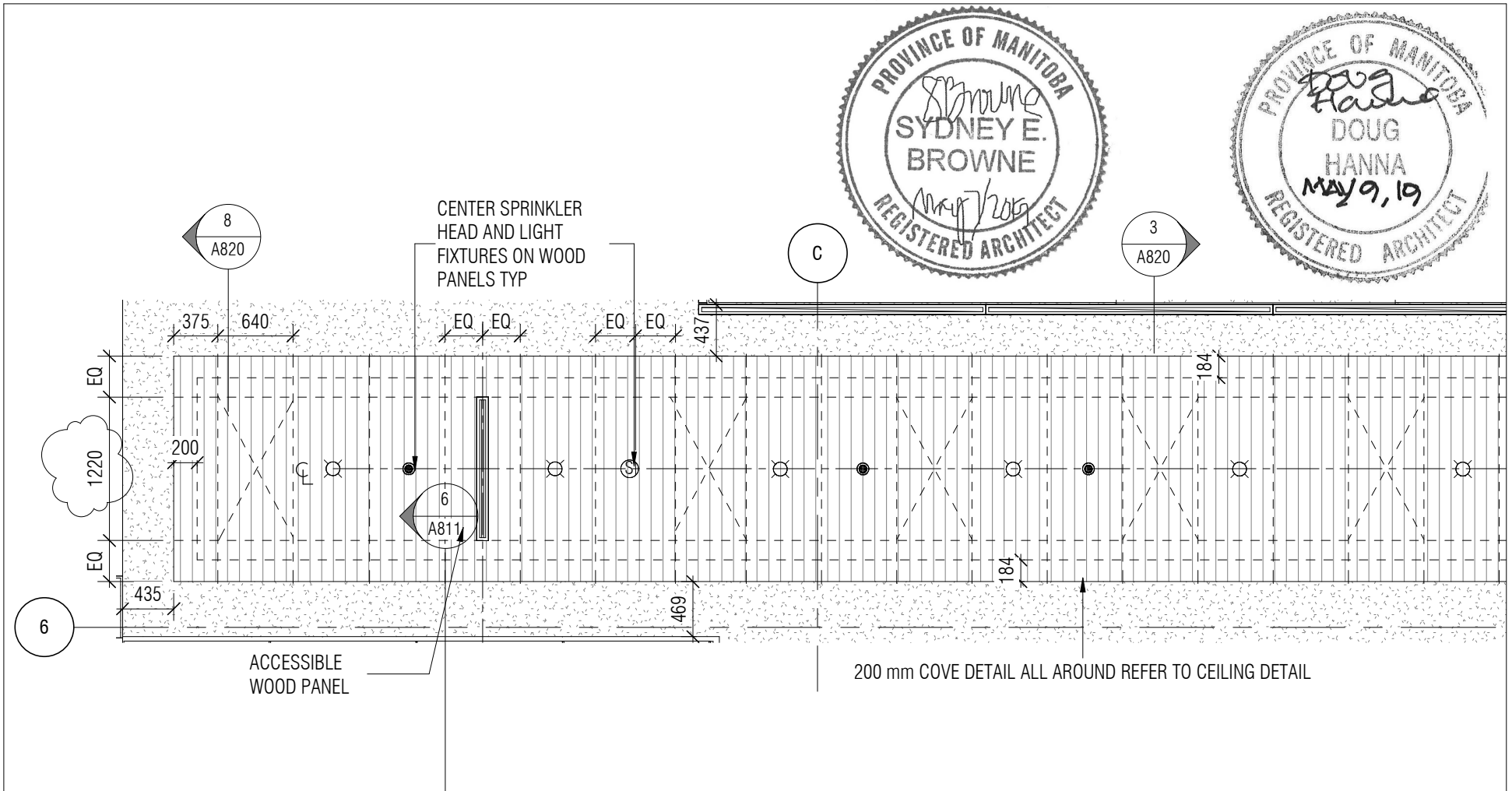
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RCP - LEVEL 2 - EAST

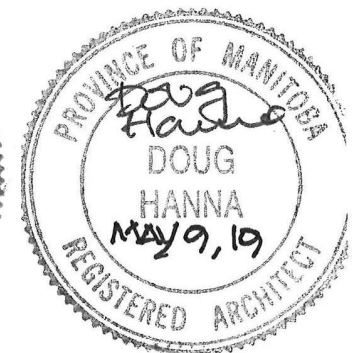
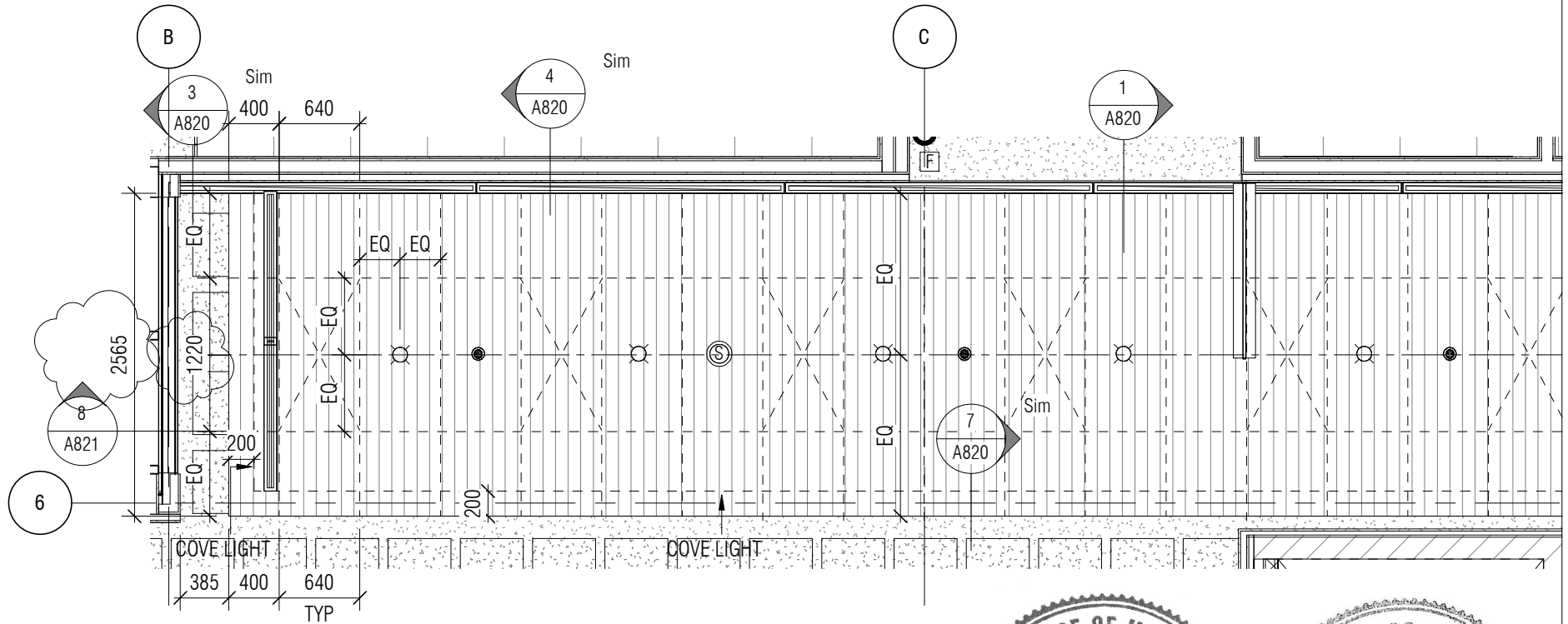
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Project no./No. du projet	Drawing no./No. du dessin	Revision no.
IMC-0200W R.076948.001 1639/2016082	A205	2

A205 2



<p>project</p> <p>NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG Red Fife Road, Winnipeg, Manitoba</p> <p>project</p>	<p>Designed By MK/CL/CL/AP Conçu par</p> <p>Date 2019/05/09 (yyyy/mm/dd)</p> <p>Drawn By CL Dessiné par</p> <p>Date 2019/05/09 (yyyy/mm/dd)</p> <p>Reviewed By DH/JF Examiné par</p> <p>Date 2019/05/09 (yyyy/mm/dd)</p> <p>Approved By DH/JF Approuvé par</p> <p>Date 2019/05/09 (yyyy/mm/dd)</p> <p>Tender KEVIN GALLAYS Soumission</p> <p>Project Manager Administrateur de projets</p>	<p> Public Works and Government Services Canada Travaux publics et services gouvernementaux Canada</p> <p>REAL PROPERTY SERVICES Western Region SERVICES IMMOBILIERS Région de l'Ouest</p> <p>Project no. No. du projet</p> <p>R.076948.001</p> <p>Drawing no. No. du dessin</p> <p>DA-087</p>
<p>drawing</p> <p>PARTIAL 12/A821 - LEVEL 1 WEST - ACW1 LOBBY</p> <p>dessin</p>		



project
**NRC ADVANCED
 MANUFACTURING PROGRAM
 (AMP) - WINNIPEG**
 Red Fife Road, Winnipeg, Manitoba

drawing
**PARTIAL 9/A821 - LEVEL 2
 WEST - WEST ACW1
 CORRIDOR**

Designed By	MK/CL/CL/AP	Conçu par
Date	2019/05/09	(yyyy/mm/dd)
Drawn By	CL	Dessiné par
Date	2019/05/09	(yyyy/mm/dd)
Reviewed By	DH/JF	Examiné par
Date	2019/05/09	(yyyy/mm/dd)
Approved By	DH/JF	Approuvé par
Date	2019/05/09	(yyyy/mm/dd)
Tender	KEVIN GALLAYS	Soumission
Project Manager	Administrateur de projets	



Public Works and
 Government Services
 Canada

Travaux publics et
 services gouvernementaux
 Canada

REAL PROPERTY
 SERVICES
 Western Region

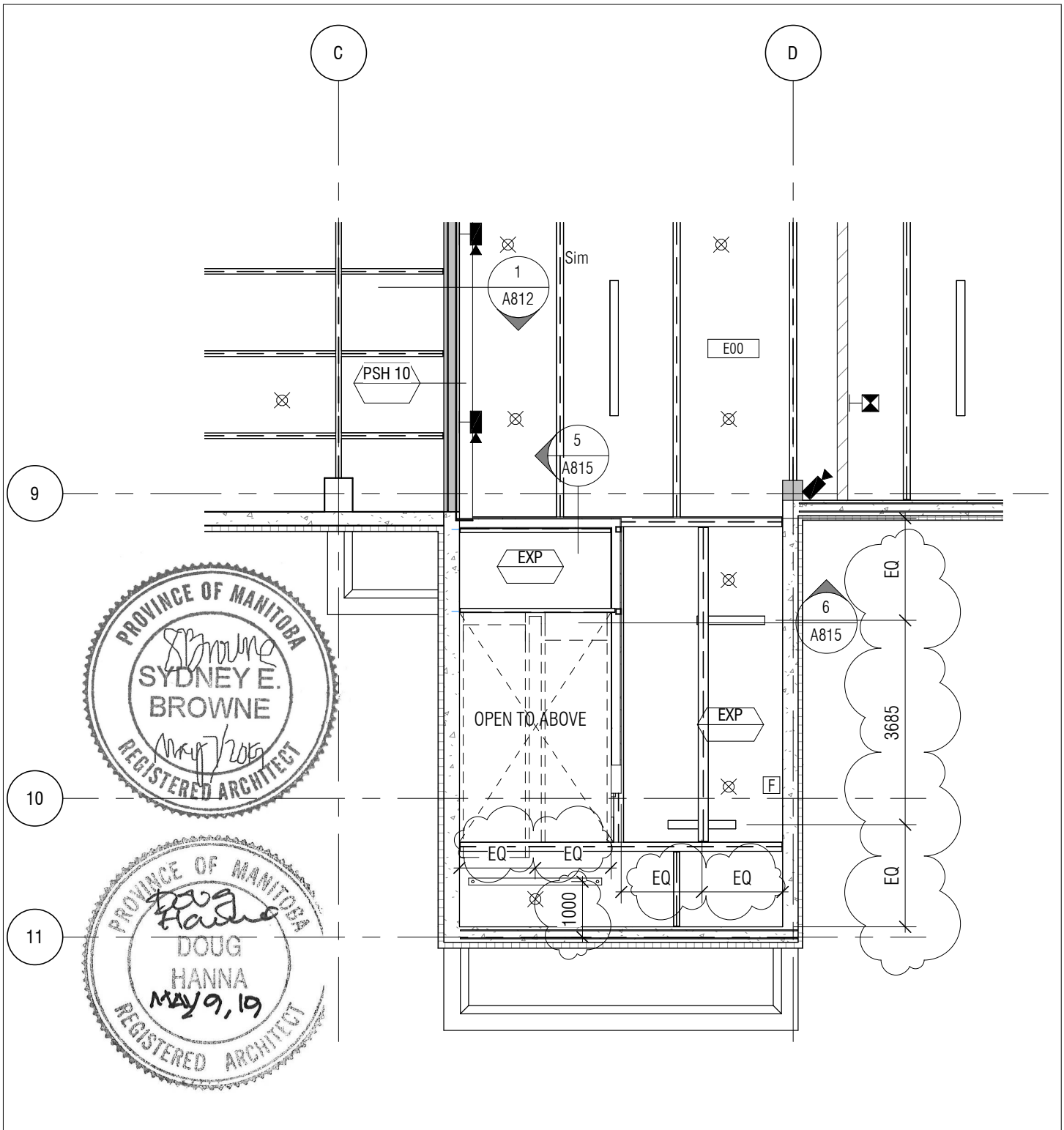
SERVICES IMMOBILIERS
 Région de l'Ouest


Project no. No. du projet

R.076948.001

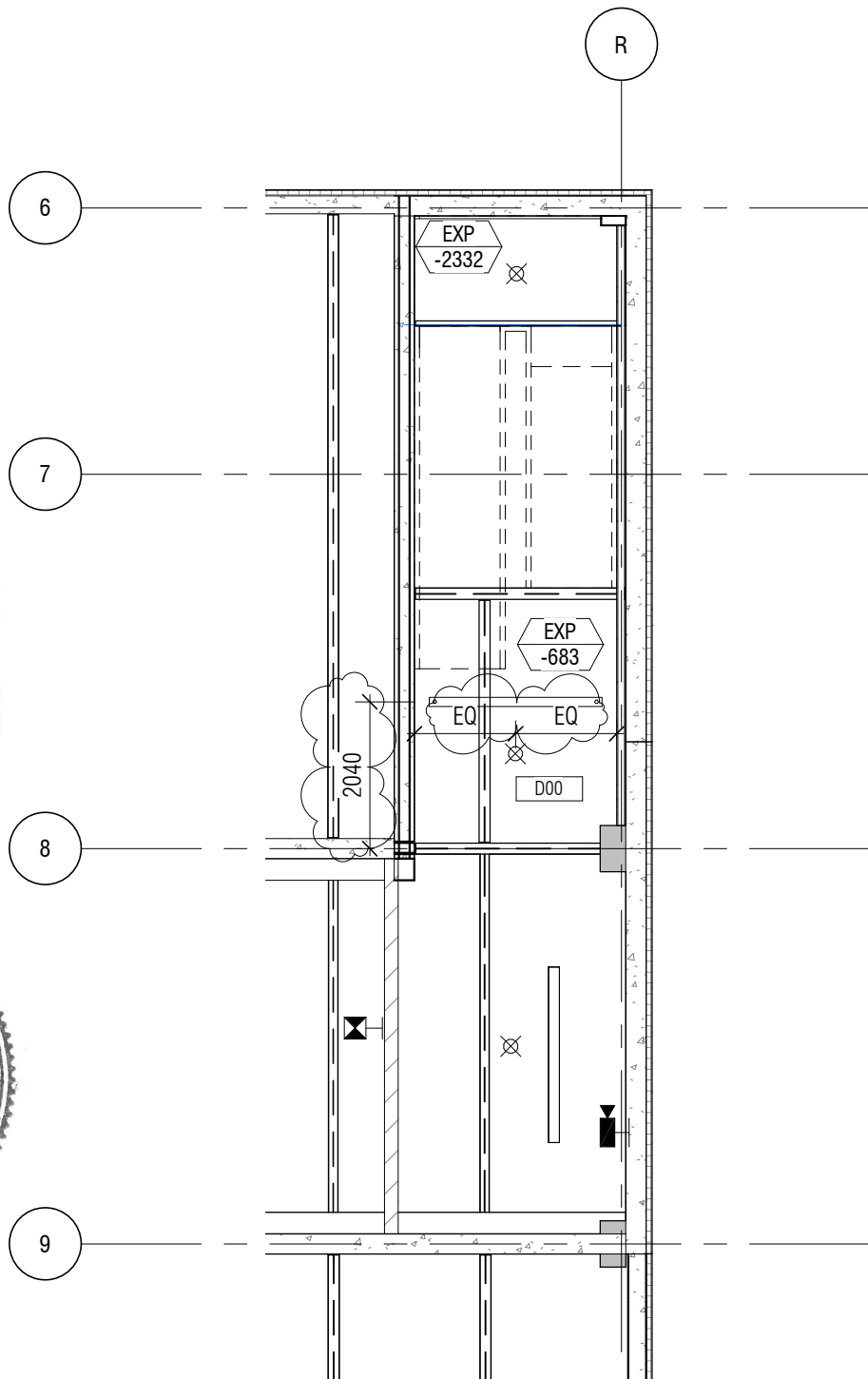
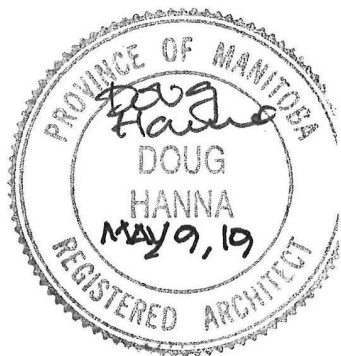
Drawing no. No. du dessin


DA-088



project	project	Designed By	MK/CL/CL/AP	Conçu par		Public Works and Government Services Canada	Travaux publics et services gouvernementaux Canada
		Date	2019/05/09	(yyyy/mm/dd)			
		Drawn By	CL	Dessiné par			
		Date	2019/05/09	(yyyy/mm/dd)			
		Reviewed By	DH/JF	Examiné par			
drawing	dessin	Date	2019/05/09	(yyyy/mm/dd)	Project no.	No. du projet	
		Approved By	DH/JF	Approuvé par			
		Date	2019/05/09	(yyyy/mm/dd)			
		Tender		Soumission			
		Project Manager	KEVIN GALLAYS	Administrateur de projets			

NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG Red Fife Road, Winnipeg, Manitoba		REAL PROPERTY SERVICES Western Region	SERVICES IMMOBILIERS Région de l'Ouest
PARTIAL A200 - RCP - LEVEL 0 - WEST		R.076948.001	
		Drawing no.	No. du dessin
		DA-089	



project	projet	Designed By	MK/CL/CL/AP	Conçu par	 Public Works and Government Services Canada	Travaux publics et services gouvernementaux Canada
		Date	2019/05/09	(yyyy/mm/dd)		
		Drawn By	CL	Dessiné par		
		Date	2019/05/09	(yyyy/mm/dd)		
		Reviewed By	DH/JF	Examiné par		
drawing	dessin	Date	2019/05/09	(yyyy/mm/dd)	Project no.	No. du projet
		Approved By	DH/JF	Approuvé par		
		Date	2019/05/09	(yyyy/mm/dd)		
		Tender		Soumission		
			KEVIN GALLAYS			
		Project Manager		Administrateur de projets		
					Drawing no.	No. du dessin
					DA-090	

DOOR											FRAME						SCREEN						HARDWARE SET	FIRE RATING	REMARKS
DOOR NUMBER	DOOR	LOCATION	REBATE WIDTH	REBATE HEIGHT	DOOR TYPE	THICKNESS	MATERIAL	FINISH	GLASS	GRILLE	TYPE	MATERIAL	FINISH	GLASS	PROFILE	DETAIL	LENGTH	HEIGHT	SILL HEIGHT	# PANELS SIDE 1	# PANELS SIDE 2	SIDE 2 WIDTH			
100C	DOUBLE	CORRIDOR	2100	2750	B	45	HM	PT	GL33		F1	HM	PT	-	1	D5							5	0 HR	
100D	SINGLE	CORRIDOR	1100	2440	A	45	HM	PT	-		F1	HM	PT	-	4	D5							6		
100F	DOUBLE	LAB CORRIDOR	2100	2350	B	45	HM	PT	GL33		F1	HM	PT	-		D5							8	0 HR	
202C.01	SCREEN	OPEN WORKSTATION, FIXED					-	-			F5	HM	PT	GL33	1	D4	5000	1400	0	5					
E01	SINGLE	STAIR E	1100	2440	A	45	HM	PT	-		F1	HM	PT	-	4								6	1 HR	

Canada



Public Works and Government Services Canada
Travaux publics et services gouvernementaux Canada

REAL PROPERTY SERVICES Western Region
SERVICES IMMOBILIERS Région de l'Ouest

Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

1	ISSUED FOR ADDENDUM NO.2	2019/05/09
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revisions	description	date
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A
C

A detail no.
no. du detail
B location drawing no.
sur dessin no.
C drawing no.
dessin no.

A
B C

project

projet

NRC ADVANCED
MANUFACTURING
PROGRAM (AMP) -
WINNIPEG

Red Fife Road, Winnipeg, Manitoba

drawing

dessin

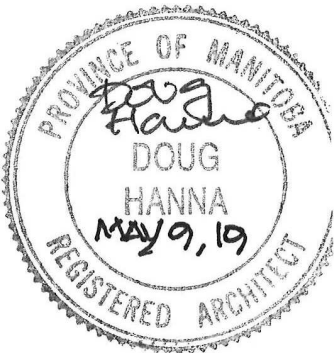
REVISION TO A1000
DOOR SCHEDULE TYPES
DETAILS

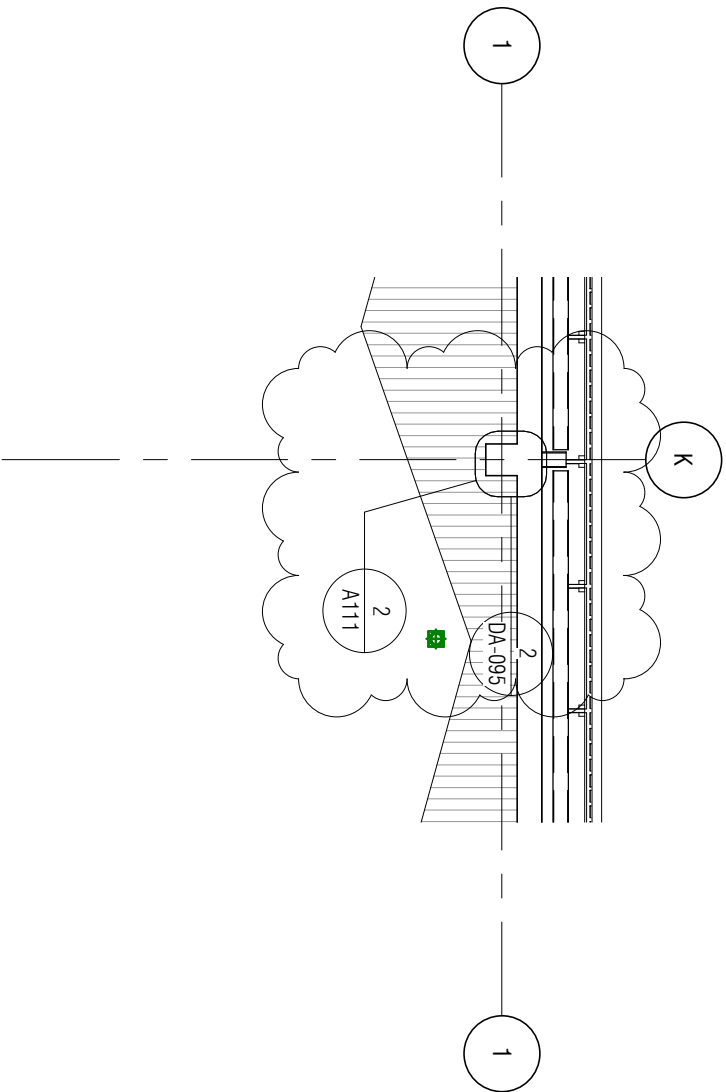
Designed By	CL/MK/CL/AP	Conçu par
Date	2019/05/09	(yyyy/mm/dd)
Drawn By	MK	Dessiné par
Date	2019/05/09	(yyyy/mm/dd)
Reviewed By	DH/JF	Examiné par
Date	2019/05/09	(yyyy/mm/dd)
Approved By	DH/JF	Approuvé par
Date	2019/05/09	(yyyy/mm/dd)
Tender	KEVIN GALLAYS	Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet

R.076948.001

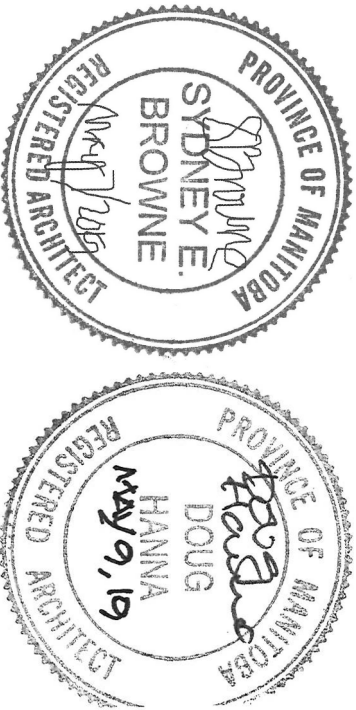
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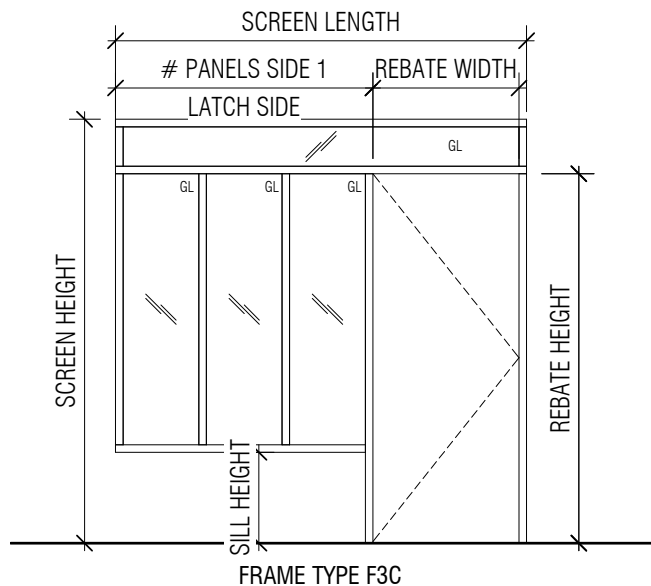
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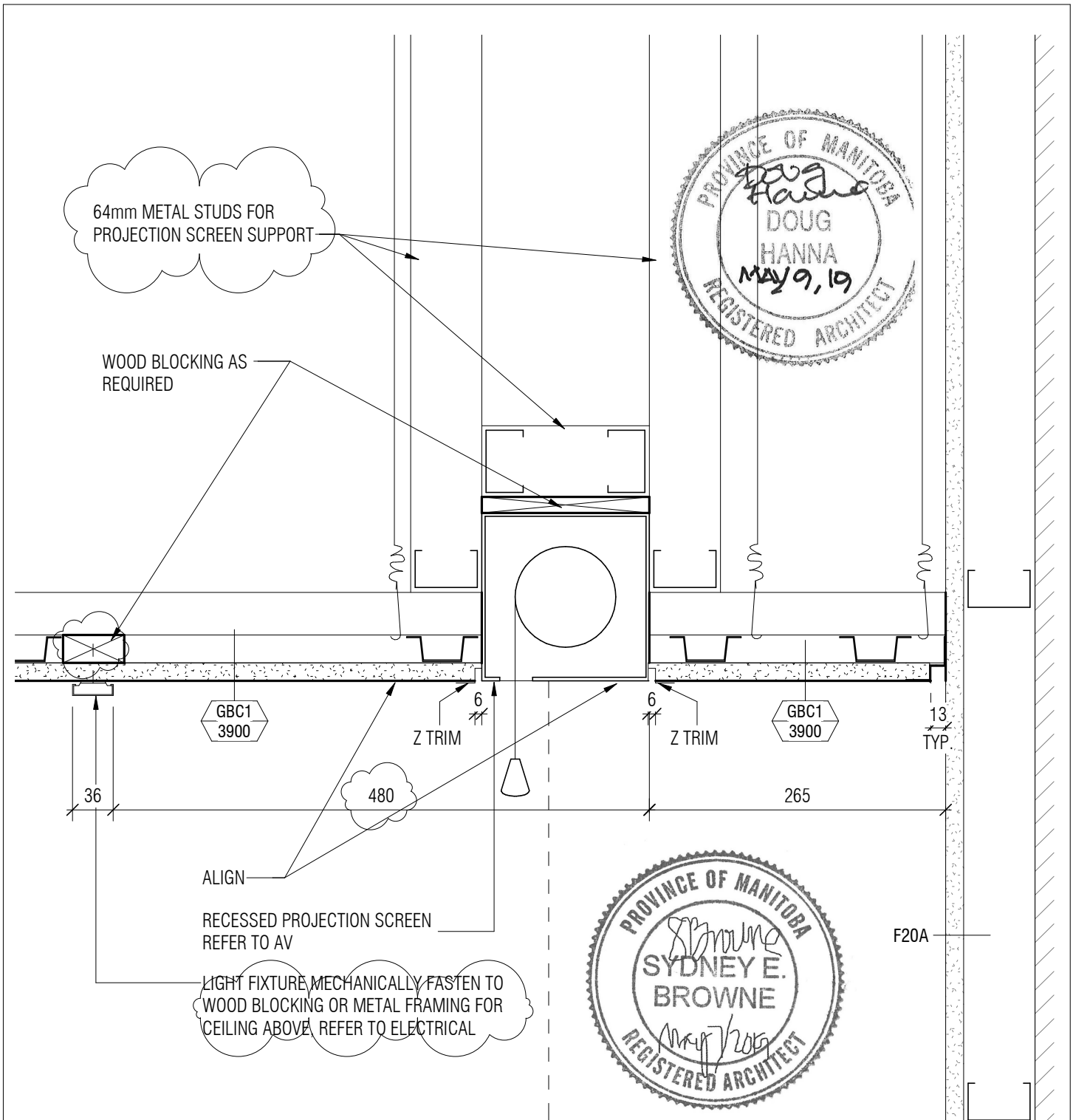


project	projet	Designed By	MK/CUC/LAP	Conçu par	
project	projet	Date		(yyyy/mm/dd)	
		Drawn By	Author	Dessiné par	
		Date		(yyyy/mm/dd)	
		Reviewed By	DH/JF	Examiné par	
		Date		(yyyy/mm/dd)	
drawing	dessin	Approved By	DH/JF	Approuvé par	
drawing	dessin	Date		(yyyy/mm/dd)	
		Tender	KEVIN GALLAYS	Soumission	
		Project Manager	Administrateur de projets		
A1111 PLAN-ROOF-EAST		Project no.		No. du projet	
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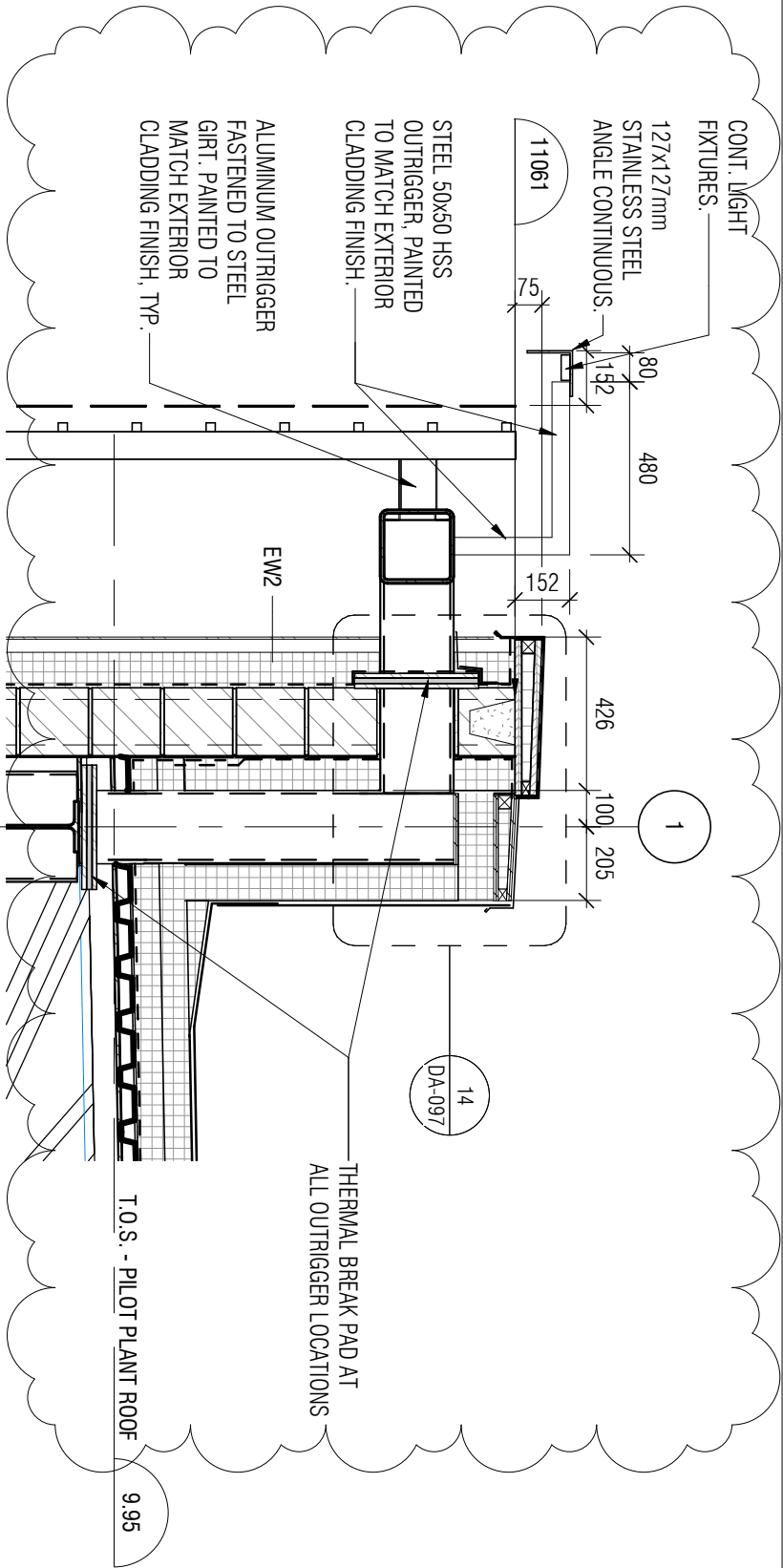
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<p>drawing</p> <p>REVISION TO A1000 DOOR SCHEDULE TYPES DETAILS</p>		<p>Project no. No. du projet</p> <p>R.076948.001</p> <p>Drawing no. No. du dessin</p> <p>DA-093</p>



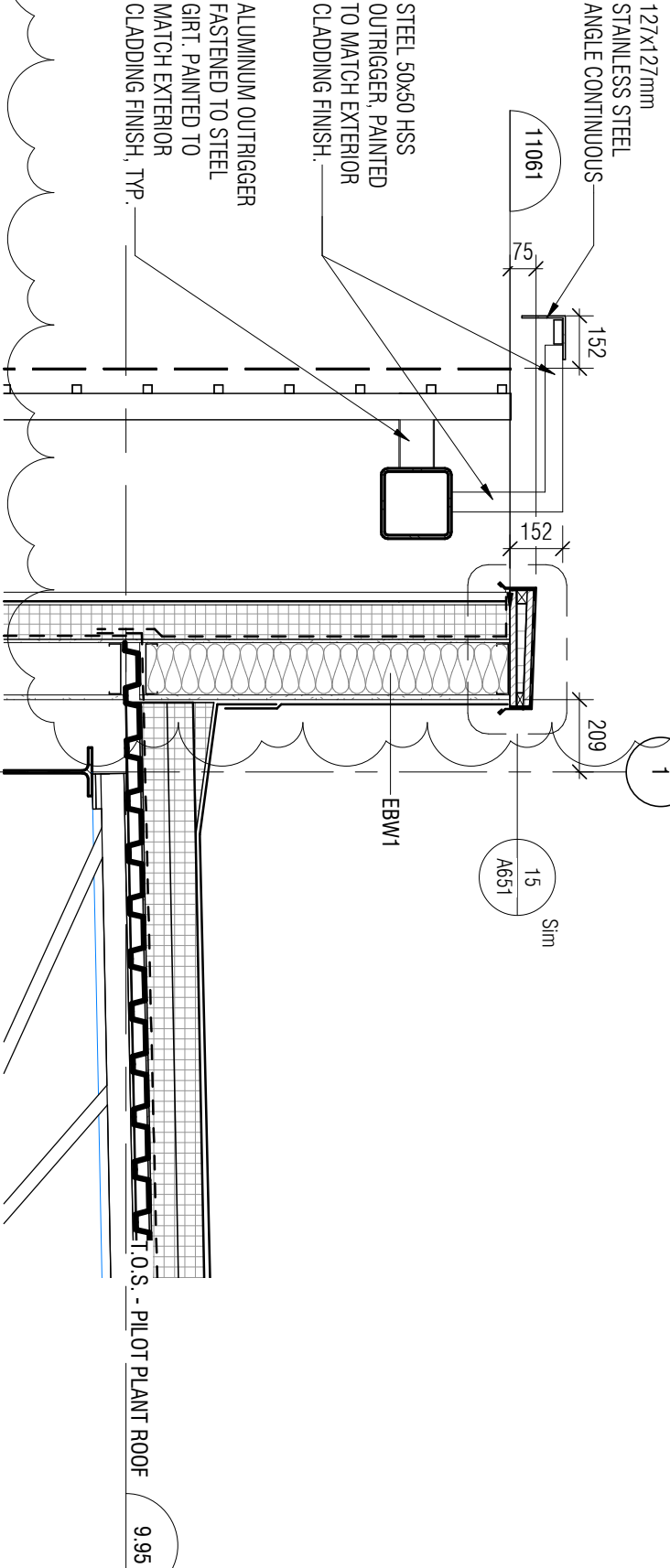
<p>project</p> <p>NRC ADVANCED MANUFACTURING PROGRAM (AMP) - WINNIPEG Red Fife Road, Winnipeg, Manitoba</p>	<p>project</p> <p>Designed By MK/CL/CL/AP Date 2019/05/09 (yyyy/mm/dd) Drawn By CL Date 2019/05/09 (yyyy/mm/dd) Reviewed By DH/JF Date 2019/05/09 (yyyy/mm/dd) Approved By DH/JF Date 2019/05/09 (yyyy/mm/dd) Tender Project Manager KEVIN GALLAYS</p>	<p>Conçu par (yyyy/mm/dd) Dessiné par (yyyy/mm/dd) Examiné par Approuvé par Soumission Administrateur de projets</p>
<p>drawing</p> <p>9/A820 - CEILING DETAILS</p>	<p>dessin</p>	<p>Project no. No. du projet R.076948.001 Drawing no. No. du dessin DA-094</p>

DA-095 / 1 : 10

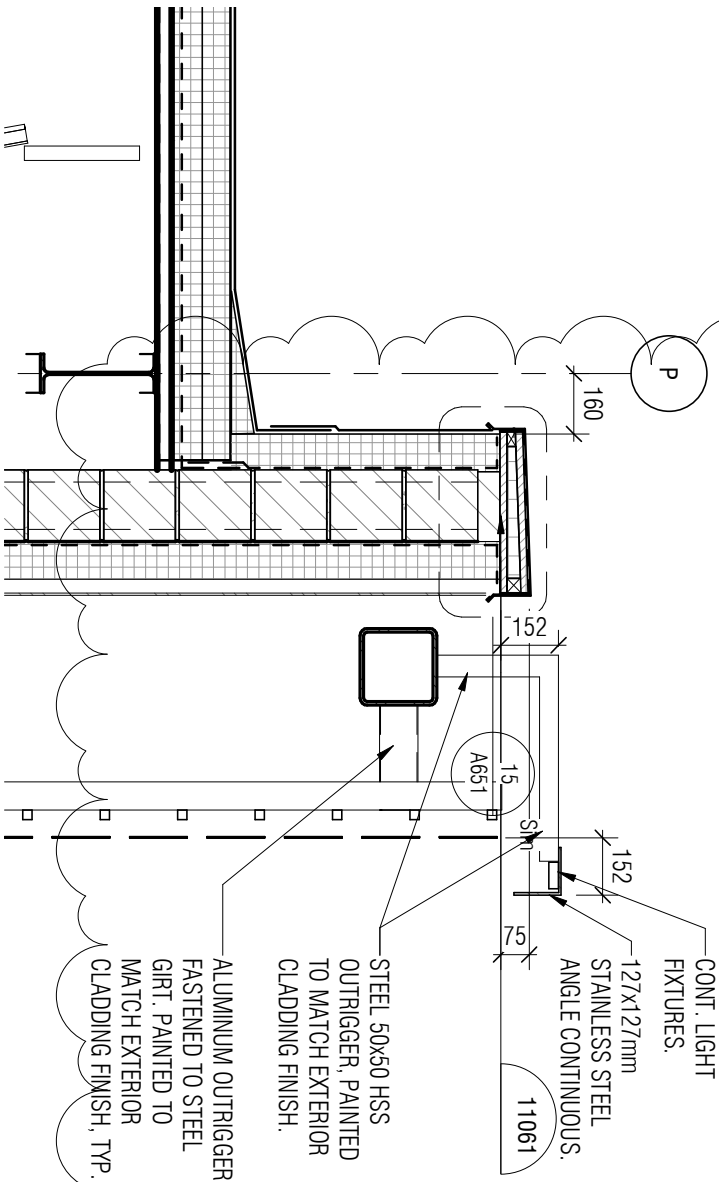
project	projet	Designed By	MK/CLC/LAP	Conçu par			
		Date		(yyyy/mm/dd)		Public Works and services gouvernementaux Canada	Travaux publics et services gouvernementaux Canada
		Drawn By	AP	Dessiné par			
		Date		(yyyy/mm/dd)		REAL PROPERTY SERVICES Western Region	SERVICES IMMOBILIERS Région de l'Ouest
		Reviewed By	DH/JLF	Examiné par			
drawing	dessin	Date		(yyyy/mm/dd)			
		Approved By	DH/JLF	Approuvé par			
		Date		(yyyy/mm/dd)			
A111 -PLAN-ROOF-EAST		Tender		Submission		Drawing no.	No. du projet
		Project Manager	KEVIN GALLAYS	Administrateur de projets		R.076948.001	
						DA-095	No. du dessin




1
SECTION - KINETIC SCREEN @ EBW2 - DA-096

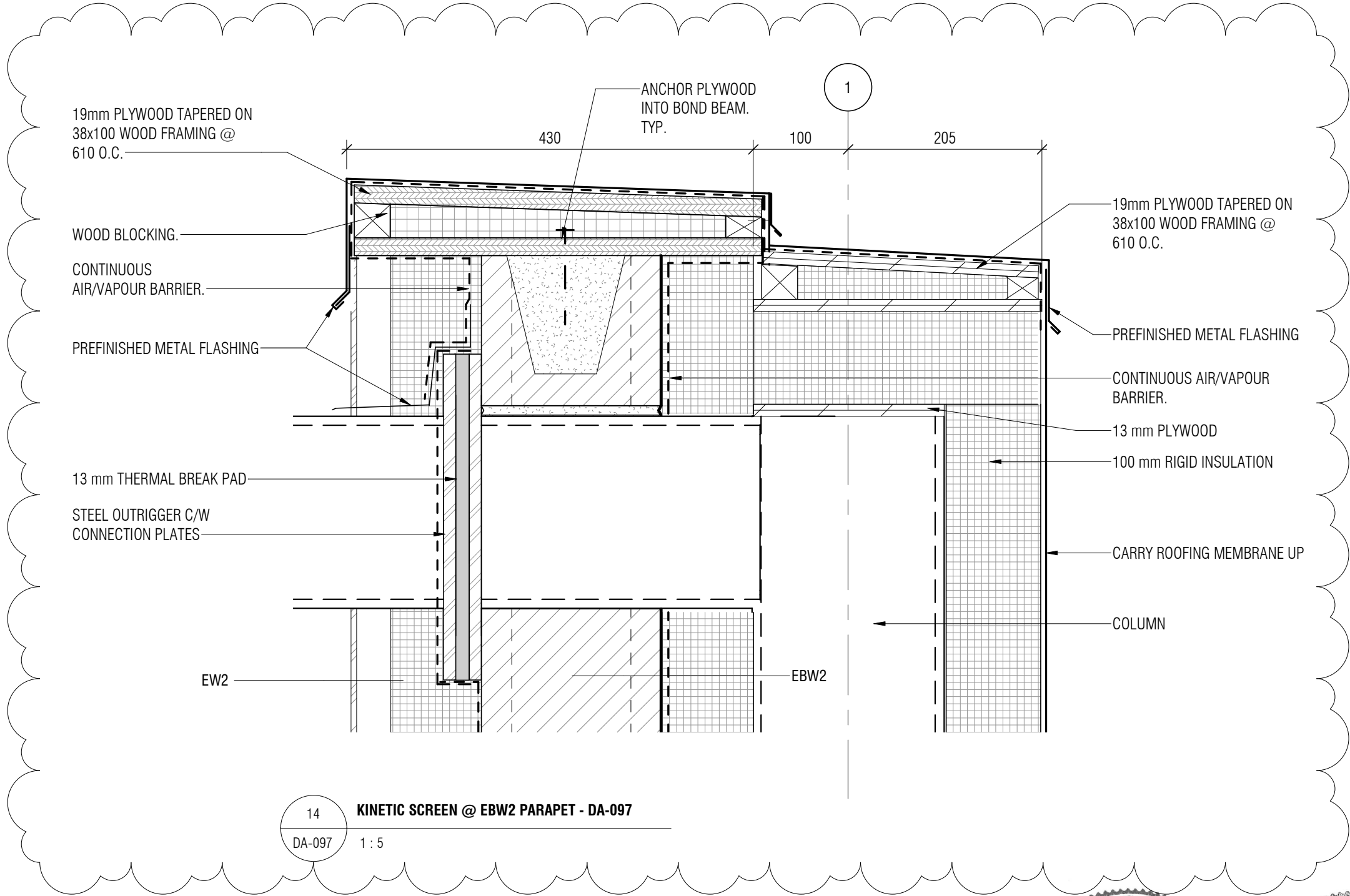


2
SECTION - KINETIC SCREEN @ EBW1 & GLAZING - DA-096



3
SECTION - KINETIC SCREEN @ EAST LOADING DOORS - DA-096

project	projet	Designed By	Designer	Conçu par		Public Works and Government Services Canada	Travaux publics et services gouvernementaux Canada
		Date	MK/CL/CL/AP	(yyyymm/dd)			
		Drawn By	AP	Dessiné par			
		Date		(yyyymm/dd)		REAL PROPERTY SERVICES	SERVICES IMMOBILIERS
		Reviewed By	DH/JF	Examiné par		Western Region	Région de l'Ouest
		Date		(yyyymm/dd)			
		Approved By	DH/JF	Approuvé par			
		Date		(yyyymm/dd)			
		Tender		Soumission			
		Project Manager	KEVIN GALLAYS	Administrateur de projets			
drawing	dessin				Project no.		No. du projet
					R.076948.001		
					DA-096		No. du dessin



Canada



Public Works and
Government Services
Canada

Travaux publics et
services gouvernementaux
Canada

REAL PROPERTY
SERVICES
Western Region

SERVICES IMMOBILIERS
Région de l'Ouest

Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

1	ISSUED FOR ADDENDUM NO.2	2019/05/09
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revisions	description	date
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<div>A C</div>	A detail no. no. du detail B location drawing no. sur dessin no. C drawing no. dessin no.	<div>A B C</div>
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project projet

**NRC ADVANCED
MANUFACTURING
PROGRAM (AMP) -
WINNIPEG**

Red Fife Road, Winnipeg, Manitoba

drawing dessin

A652 SECTION DETAILS

Designed By MK/CL/CL/AP Conçu par

Date (yyyy/mm/dd)

Drawn By AP Dessiné par

Date (yyyy/mm/dd)

Reviewed By DH/JF Examiné par

Date (yyyy/mm/dd)

Approved By DH/JF Approuvé par

Date (yyyy/mm/dd)

Tender Soumission

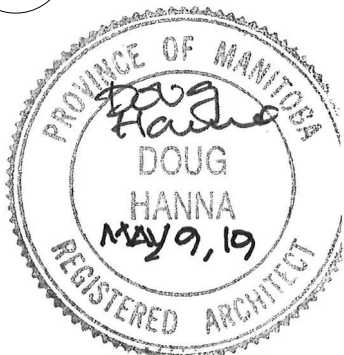
Project Manager KEVIN GALLAYS Administrateur de projets

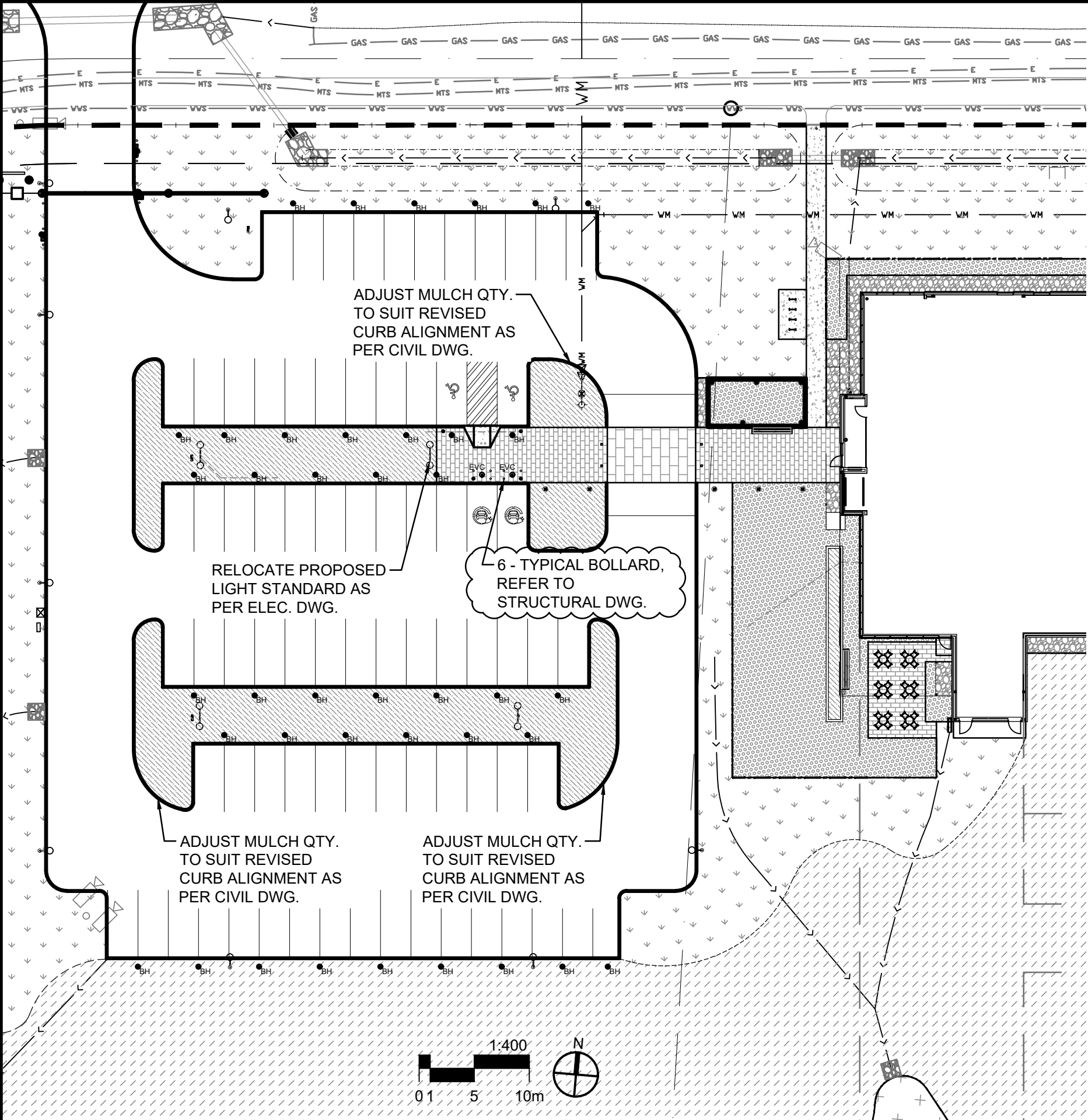
Project no. No. du projet

R.076948.001

Drawing no. No. du dessin

DA-097





Public Works and Government Services Canada

REAL PROPERTY SERVICES Western Region

Travaux publics et services gouvernementaux Canada

SERVICES IMMOBILIERS Région de l'Ouest

Contractor to verify all dimensions & conditions on site and immediately notify the departmental representative of all discrepancies.

revisions	description	date
1	General Revision	19-05-09

A

C

A detail no. no. du detail

B location drawing no. sur dessin no.

C drawing no. dessin no.

A

B

C

project

NRC ADVANCED MANUFACTURING PROGRAM (AMP) WINNIPEG

Red Fife Road, Winnipeg, Manitoba

projet

drawing

LANDSCAPE SITE PLAN - OVERALL REVISION 1, FOR ADDENDUM #2

dessin

Designed By	MB	Conçu par
Date	2019/05/09	(yyyy/mm/dd)
Drawn By	WF	Dessiné par
Date	2019/05/09	(yyyy/mm/dd)
Reviewed By	BS	Examiné par
Date	2019/05/09	(yyyy/mm/dd)
Approved By	DM	Approuvé par
Date	2019/05/09	(yyyy/mm/dd)
Tender	KEVIN GALLAYS	Soumission
Project Manager		Administrateur de projets
Project no.		No. du projet
	R.076948.001	
Drawing no.		No. du dessin
	DL-01	

NRC AMP Winnipeg Tender Period - Requests for Information/Contractor Questions

Issued for Tender Documents - April 17, 2019

Item #	Date of Request	Question	Section/ Drawing Reference	Dicipline	Response	Issued
1	17-Apr-19	The Bid and Acceptance Form (BA) shows a space for an “Industrial Security Program Organization Number (ISP ORG#) “when required”. Please confirm if this number is required as a requirement for this tender?			Not Required for this Project	Addendum #1
2	17-Apr-19	Specifications 21 05 11; 3.6 SYSTEM CLEANING; “Clean interior and exterior of all systems including strainers. Vacuum interior of ductwork and air handling units.” - Does this work need to be performed by a competent sub trade complete with videos and report? - May we have a mechanical equipment schedule please.	21 05 11	Mechanical	Section 23 08 02 Cleaning and Start-Up of Mechanical Piping systems outlines expectations of cleaning of hydronic and steam systems. Section 23 05 94 Pressure Testing of Ducted Air Systems outline the expectations of cleaning of ducted air systems. All ductwork to be protected during construction and wiped clean by the mechanical contractor prior to building turnover. Mechanical Schedules provided in Addendum #1.	Addendum #1
3	17-Apr-19	The schedules for the mechanical equipment have not been uploaded to WCA, please see the below picture of the missing spec sections.	25 00 00	Mechanical	Mechanical schedules provided in Addendum #1	Addendum #1
4	24-Apr-19	Is an organized site meeting for this project?		Architectural	No site meeting required	Addendum #1
5	24-Apr-19	RFE #1	-	-	-	-
6	24-Apr-19	RFE #2	-	-	-	-
7	25-Apr-19	1)Re: door schedule A1000 a.Door 100C & 100F (type B) are non rated doors and require 0 fire rating, however calls for GL60 fire rated glazing, please advise if rated or not rated b.Doors 100D (type B) is a non rated door but requires a 1 hr fire rating and GL60 fire rated glass, please advise if rated or not c.Door 104.1 is a frame type F3C, there is no F3C shown in the door and screen types 5/A1000 d.Door 202C.01 has glass type GL31 (non rated) but has a 1 hr rating, please advise if rated or not e.Numerous doors/frames just show glass type “GL” so no indication of which GL type, please advise 2)There is a section 085113 Aluminum Windows: Is this an alternate to the fibreglass or are their some aluminum windows on this project? 3)Section 055000 Item 2.4 Kinetic Wall – Item .2 indicates Frame: Stainless steel tubing – Drawing A302 indicates Aluminum tubing with stainless steel plates. Please advise 4)Section 084413 Item 2.4.4 Flashings- 3mm thick flashings will cause the painted/anodized finishes to craze when formed which doesn’t look very good. Typical flashings are 1.2mm (best option for sills, parapet etc flashings) or 2.1mm for larger flashings (large corner caps) . Please advise if flashings need to be 3mm thick. 5)Section 088050 Glazing a.Item 2.3.4 : Please advise location of glass type SG-4 b.Item 2.5 Security Film – Please advise location of security film	various	Architectural (NTAG/DSA)	1) a. DSA: Not rated and clarified elsewhere in this addendum. b. DSA: Not rated and clarified elsewhere in this addendum. c. DSA: Door 104.1 is part of curtainwall and frame type not indicated as F3C in door schedule. d. DSA: Not rated and clarified elsewhere in this addendum. e. DSA: Glass type GL clarified in Addendum #1. 2) There are both. 3) Revise 05 50 00 to read as aluminum 4) Revised by Addendum #2. TBC	Addendum #2 (item 4.8) - - (item 2.1) -
8	25-Apr-19	1. Ref. details 8/S303 and 9/S303 do not show the specific connection required between galv. HSS girt and aluminum, currently shown as “moment connection”. Please provide details for the specific connections to be made between HSS girts and aluminum as it relates to the installation of the kinetic screens.		Structural	Detailed connection design shall be by the structural steel supplier for the moments indicated.	Addendum #2 (item 6.4)
9	25-Apr-19	RFE 3	-	-	-	-
10	25-Apr-19	RFE 4	-	-	-	-
11	25-Apr-19	1) Can you please confirm if services (WWS, WS, Electrical) Will be in place on Red Fife Road prior to start of construction. Also, please confirm if this would include Fire Hydrants along Red Fife Road. 2) Can you please provide an approximate budget cost for this project		Civil/ Electrical/ Mechanical	1) WWS, WS, Hydrants on Red Fife Road have already been installed with service stubs in place for WWS and WS up to the NRC AMP property line (as shown on the Civil drawings C003 Rev.0). The exception to this is the 250 mm PVC C900 fire hydrant lead (including tee, gate valve) near the west parking lot that has not been installed yet. 2) PSPC will not be releasing the approximate budget cost for this project. To assist with bonding and insurance requirements, this project is estimated at a value over & above \$5,000,001.00.	- -
12	25-Apr-19	There appear to be a couple spec sections missing from the tender documents for the above project. Specifically, all the sections from 23 06 20.13 to 23 06 80.13 seem to be missing from the pdf files provided. Also, there is a pdf file named 25 90 01 - EMCS Site Requirements Applications and Systems Sequence of Operation but the contents are a duplicate of 21 05 01. Please provide the missing specifications.	Div 21 & Div 22 specs	Mechanical	Forthcoming Addendum #3	-
13	26-Apr-19	RFE 5	-	-	-	-
14	26-Apr-19	Still missing Mechanical Schedules: 23 06 30.13, 23 06 30.16, 23 06 40.13, 23 06 70.43		Mechanical	Forthcoming Addendum #3	-
15	26-Apr-19	Still missing Mechanical Schedules		Mechanical	Forthcoming Addendum #3	-
16	26-Apr-19	Please confirm location in the project where section 06 82 16 Fiberglass Grating is required? Assumed it would be the catwalk areas but these are metal fabrications.	06 82 16	Architectural (DSA)	DSA: Fiberglass Grating is indicated on the tendered document as FLGR2, and is intended to be used in FLAMMABLE LIQUID STORAGE 139 only. Refer to drawing A107.	-

NRC AMP Winnipeg Tender Period - Requests for Information/Contractor Questions

Issued for Tender Documents - April 17, 2019

Item #	Date of Request	Question	Section/ Drawing Reference	Dicipline	Response	Issued
17	29-Apr-19	RFE 6	-	-	-	-
18	30-Apr-19	RFE 7	-	-	-	-
19	30-Apr-19	<p>Add. #1 page 14 : 4.15.2 states to delete panel E400 and to revise breaker in MD-6A – Should this state to revise breaker in ESD-6B?</p> <p>General Specifications Section 26 24 13 Switchboards Page 3 2.1.18 – Specification states All current carrying components such as buswork, interconnecting components, etc. shall be tin plated copper aluminum. – Please confirm if the bussing is to be Tin plated copper, Sliver plated copper or aluminum. 2.3.1 – The bussing is listed as tin plated copperaluminum and the ground bus as copperaluminum. Can you please confirm if Tin plated copper, Sliver plated copper or aluminum is required. Page 5 2.4.4.1 – Zone selective interlocking for the short time and ground fault protection. I do not see zone selective interlocking on any of the branch feeder breakers in the spec or on the one-line diagram. To have zone selective interlocking, you have a zone in which you want all the breakers in that zone to have this feature. Is this required? If so, which feeder breakers would you also like to have this feature?</p> <p>Page 7 2.8 – PFC – I do not see on the one-line where the PFC unit is being fed from. Can you please advise?</p> <p>Section 26 24 16 CDP’s Page 2 2.1.1 – States CSA-C22.2 No.31 – Would you like the CDP’s build as 90”H switchboards or Eaton’s PRL C? Eaton’s CDP’s or PRL 4 meets CSA-C22.2 No.29. Page 2 2.1.9 – Specification states All current carrying components such as buswork, interconnecting components, etc. shall be tin plated copper aluminum. – Please confirm if the bussing is to be Tin plated copper, Sliver plated copper or aluminum. Page 3 2.1.14 – States enclosure shall be protected from spay from sprinkler heads – This would be a sprinklerproof enclosure; however I see that the main distribution was requested as 3R. Can you please confirm if a sprinklerproof enclosure is required or if a 3R enclosure is required. 2.2 – Provisions for future energy consumption monitoring – As the one-line has note 6; which notes the feeders in the CDP’s that require digital metering – is this spec required? Page 4 2.3.5 – As I do not know where the CDP’s will be stored on site, do I include a anti-condensation heater in each CDP?</p> <p>Section 26 24 17 Panelboards Page 1 2.1.1.9 – States AL bus. From what I see in the other sections, cu bus is maybe what is required. Can you please confirm. Page 2 2.1.1.12 – NEMA 1 and 3R are listed. Please confirm. Section 26 25 00 Bus Duct Page 1 1.1.1 – Sprinklerproof and weatherproof is listed. Please confirm if sprinklerproof or 3R is required.</p> <p>Section 26 28 21 Moulded case circuit breakers Page 2 2.6 – Are any of these required features required? If so, which features and which breakers are these required on?</p>	<p>26 24 13</p> <p>26 24 16</p> <p>26 24 17</p> <p>26 25 00</p> <p>26 28 21</p>		<p>SMS: refer to addendum #2.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: refer to addednum #2.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: Full height CDP's are required c/w full bussing.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: refer to addendum #2.</p> <p>SMS: Yes aluminum buss.</p> <p>SMS: Sprinkler-proof.</p> <p>SMS: Please explain the difference.</p> <p>SMS: refer to addendum #2.</p>	<p>Addendum #2</p> <p>(item 3.1)</p> <p>(item 3.4)</p> <p>(Item 3.1)</p> <p>(item 3.1)</p> <p>(item 3.2)</p> <p>(item 3.2)</p> <p>(item 3.2)</p> <p>(item 3.2)</p> <p>(item 3.2)</p> <p>-</p> <p>(item 3.3)</p> <p>-</p> <p>(item 3.5)</p>

NRC AMP Winnipeg Tender Period - Requests for Information/Contractor Questions

Issued for Tender Documents - April 17, 2019

Item #	Date of Request	Question	Section/ Drawing Reference	Dicipline	Response	Issued
		Section 26 28 23 Disconnects Page 1 2.1.4 – provision for pad-locking in on-off position. Please note that Eaton’s disconnects are lockable in the off position. Is this acceptable? Section 26 29 10 Motor Starters Page 2 2.3.3 – Nema 1 Nema 3R – Please confirm Section 26 43 13 Surge Protective Devices Page 6 2.3.3.7 – states that all monitoring features shall be visible from the front of the equipment. Please note that as the specification also requested Door-in-door, there will be a door covering the monitoring features. The customer will have to open the door to see the from of the SPD. Is this acceptable?	26 28 23 26 29 10 26 43 13		SMS: Yes. SMS: refer to addendum #2. SMS: Acceptable.	(item 3.6) (item 3.7) -
20	30-Apr-19	RFE 8	-	-	-	-
21	30-Apr-19	Please provide a specification and advise the manufacturer of the new frame profile type 2 as issued in Addenda #1 sheet DA-062.		Architectural (NTAG)	Refer to Section 08 41 13 issued by addendum No.2	Addendum No.2 (item 2.2)
22	1-May-19	Please provide layout and details for housekeeping pads required for mechanical and electrical systems.		Mech/Elect	Electrical housekeeping pads are shown on electrical drawings.	-
23	1-May-19	1. please clarify the DMR Sensor system, so we make sure we include it properly. 2. Also the it looks like the requested crane trolley speed @130fpm as well as the Crane speed is 130fpm. This not is not a typical request when the crane spans are so small (16ft span) would you be able to clarify these speeds.		Owner/Arch	1. TBC 2. Revised to 65 feet per min / 20 meters per min	- - -
24	1-May-19	1. Is the cost of the building permit to be included in the bid? Or will the Owner pay these costs? 2. Please confirm that any development fees are paid for by the Owner?		Architectural (NTAG)	1. Refer to Addendum #2 2. Refer to Addendum #2	(item 1.1)
25	2-May-19	What is the interrupting capacity required for MCC-6A? I cannot seem to find the panel schedules for panels 119; 121; 123; 125; 127; 120; 122; 124; 126; 126A; PP100; PP200; T3 & E100? Panels PA, PB, PC & PD enclosures are marked as Weatherproof which is 3R; however the other panel schedules state 3R. In the panelboard specification 26 24 17 Page 2 2.1.13 it states that where exposed to weather a minimum of Nema 4 shall be provided. As these panels are located in the parking lot would Nema 3R or Nema 4 enclosure be required? In regards to the panel schedules, there are ccts that are marked as “GFI receptacle”; for example cct 9 of branch panel 1A on drawing E503. Can you please confirm if a GFI breaker is required or just your standard thermal mag breaker to feed a receptacle that is complete with GFI? Reason I ask, is I see ccts marked as “GFI heat trace”; in which I know a 30mA GFI breaker is required. WPG03EXF01 & F02 are these supposed to be FVNR magnetic starters in MCC-6A? Is their voltage supposed to be 600? Elevation of MCC-6A shows wrapper units for starters consuming 3X space or 18”H each. Eaton’s starters are 2X or 12” high each. Did you want me to make them 18”H to have extra space in the wrapper units or leave as 12”H? The 2 nd structure shown in the elevation for MCC-6A states “spare”. Would you like a Size 1 spare FVNR magnetic starter? 2.1.6 – One or two hole copper compression lugs for grounding - Does this apply to the CSTE, Switchboards, CDP’s, MCC’s and Panelboards? 2.1.2 – States to verify plans for maximum overall dimensions. I did not see any drawings in which indicate the dimensions required. Have I missed this?	E502 E508 26 05 26 26 24 16	Electrical	See addendum No. 2 See addendum No.2 See addendum No.2 Utilize standard wrapper sizes. Yes Yes See addendum No.2	Addendum No.2 (item 3.3) (item 5.3) (item 5.4) - - - (item 3.2)
26	2-May-19	1. (Bid & Acceptance Form (BA06 Construction Time) It is noted that the contractor must perform and complete the work within (80) weeks from the date of notification of acceptance of the offer. In section 01 11 00 1.4 Summary of Work it notes that Substantial Performance of the Work is required for Departmental Representative occupancy before April 2, 2021. Can you please confirm that the BA06 Construction Time (80) weeks is the correct information and if not, advise us of your requirements?	01 11 00	Owner/Arch	Substantial Performance date to be deleted from 01 11 00, Refer to Addendum #2.	Addendum No.2 (item 2.5)

NRC AMP Winnipeg Tender Period - Requests for Information/Contractor Questions

Issued for Tender Documents - April 17, 2019

Item #	Date of Request	Question	Section/ Drawing Reference	Dicipline	Response	Issued
		2. Could you please confirm what products 2.2.1 (FAF-1), 2.2.2 (FAF-2) and 2.2.3 (FAF-3) are based on? Based on the information provided (highlighted copy of specificcation document 09 95 00 attached) our suppliers are not able to give us satisfactory recommendations for FAF-2 and FAF-3 flooring materials, and one supplier can only provide 2.1.1 (FAF-1) but there is a stipulation in the same section 2.2.4 that says, " All epoxy materials from the same manufacture." Can this stipulation 2.2.4 be removed as it is making pricing of this division difficult and not contributing to the overall reduction of the price because of reduced competition?	09 95 00	Architectural (NTAG)	A) TBC B) Refer to Addendum No.2	(item 2.11)
27	3-May-19	Section 26 32 14 item 2.2.2 it has asked for a 125C temperature rise our unit would have a 130C rise at a standby rating and 105 C at prime power rating will this be acceptable. Section 26 32 14 item 2.2.11 Thermistors or platinum resistance temperature transducers embedded in stator winding and connected to alternator control circuitry. On this size of generator this options is not available. We see this requires on our larger generator and in prime power application which we can supply in that range. Section 26 32 14 item 2.1.8.8 You have asked for an oil pan heater that is thermostatically control is this required when the unit wil have a block heater and the unit will be inside a heated enclosure. This is not a standard factory option. Section 26 32 14 item 2.5.2.1 Spring isolators have been spec . On this size of unit it will come with standard rubber mount isolation so spring isolator are not required.	26 32 14	Electrical	Stand-by rating required. See addendum No.2 See addendum No.2 See addendum No.2	- (item 3.8) (item 3.8) (item 3.8)
28	3-May-19	Clarification on transition mode; Closed transition and Open transition both mentioned in specification. Please clarify if both ATSS are to be Closed or open transition? Both Sprinkler protection and NEMA 3R Enclosures mentioned in specifications Please clarify if NEMA 1 + Sprinkler protection sufficient or NEMA 3R(Outdoor) enclosure required.	26 36 23	Electrical	See addendum No.2 See addendum No.2 See addendum No. 2 See addendum No. 2	Addendum No.2 (item 3.9)
29	3-May-19	10 75 00 calls for a design requirement for the flag poles of 356km/h flagged wind speeds. I am told by a trade this is not achievable. The maximum flagged wind speed is 305km/h. please confirm this is acceptable.	10 75 00	Landscape	TBC	-
30	3-May-19	Another question with reference to Section 055000 Item 2.4 Kinetic Wall Item 2.4.1.1 "Finish: Water based Light industrial coating Where is this coating required? The 316 stainless is material not a product that requires a coating for outdoor use. Please advise	05 50 00	Architectural (NTAG)	Refer to drawing A302 - Finish to be applied as logo on kinetic screen.	-
31	6-May-19	1. Drawing M300 between grid line's 14 & 15 provide spec for the emergency overflow tank for flammable liquid storage if this is to be provided by mechanical. 2. Flammable liquid storage drain piping, what is the approved spec for this piping as well as the approved venting requirements? 3. Spec for TD-1 (Trench Drain) is not shown in the spec book section 22 42 01 – 2.1? Please clarify. 4. Air compressor schedule drawing M203 – 1, the pipe sizing does not match the continued piping on drawing M300. Which sizing is correct? 5. Provide spec for grit interceptor on drawing M300 gridlines N & P@6. 6. The 2 oil interceptors shown in the crawlspace of drawing M300 don't seem to be the under counter type that the spec calls up (Section 22 42 01-2.15). Please clarify. 7. Spec for DF-1 drinking fountain. 8. Plumbing fixture tag is missing from the drinking fountain drawing M602-2 near gridline #8. 9. Provide spec for the storm outlet nozzle in drawing M303 gridlines C&11. 10. Is it acceptable to use Stainless steel piping for the domestic water piping 2-1/2” and over? 11. Please provide the Pump Schedule.		Mechanical	Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 Forthcoming Addendum #3 This is acceptable. Forthcoming Addendum #3	- - - - - - - - - - -
32	6-May-19	Addenda #1 Item 1.2.1.11 Glass type GL41 is listed as 2 layers of 5mm low Iron with translucent interlayer. This glazing goes into the new frame profile 2 which is 2 layers of single glazing however where does the interlayer go as this is not a laminated application according to the detail showing this glazing is in the new frame profile type 2 which I questioned below	Addenda #1	Architectural (DSA)	TBC	-

NRC AMP Winnipeg Tender Period - Requests for Equals

Issued for Tender Documents - April 17, 2019

No.	Date of Request	Specified Product	Dicipline	Accepted/Rejected	Issued	Comments
1	24-Apr	Overhead Door	Architectural	n/a	n/a	RFE not required, please meet performance spec
2	24-Apr	Nabco Door operator	Architectural	Accepted	Addendum #2	(item 2.9)
3	25-Apr	Artspan Insulated steel panel (IMP)	Architectural	Rejected	-	-
4	25-Apr	Overhead Coiling Door and Grilles	Architectural	n/a	n/a	RFE not required, please meet performance spec
5	26-Apr	Door Operator	Hardware	Accepted	-	(item 2.9)
6	29-Apr	PA system / Sound Masking	Electrical	Rejected	-	-
7	30-Apr	Concrete Pole foundations	Structural	accepted	Addendum #2	(item 6.1)
8	30-Apr	CCTV equipment	Electrical	n/a	n/a	RFE not required, please meet performance spec