



**The Niagara Parks Commission
Agency of the Government of
Ontario since 1885**

ADDENDUM # 2

FOR

WEGO Transit and Fleet Operations Center Expansion

Request for Proposal No: RFP-22-2024-AD
Issue Date of Addendum: January 7, 2025
Proposal Submission Deadline: January 23, 2025 at 2:00 p.m. ET

ADDENDUM # 2

This RFP may only be amended or supplemented by an addendum. If The Niagara Parks Commission (“NPC”), for any reason, determines that it is necessary to provide additional information relating to this RFP, such information will be communicated to all Proponents by addenda by way of Bonfire. Each addendum shall form an integral part of this RFP.

NPC is issuing this Addendum to all potential Proponents to:

- advise them of the responses to the questions that were submitted by potential Proponents of the RFP, and/or;
- advise them of the clarifications/changes to this RFP.

Proponents are responsible for obtaining all addenda issued by the NPC.

Amendments:

1. WEGO Service Garage Addition- Raimondo Architects Addendum #1
2. WEGO Addition Grading Plan

Questions & Answers:

1. Please provide a completed site plan. We require the following information. See A1-000 “ Overall Site Plan.

ANSWER: Attached to this Addendum is a grading plan that has been provided.

2. Provide existing grades in the building area as well as at all new asphalt areas (we require the grades to establish cut/fill quantities)

ANSWER: Grading plan attached.

3. Please provide the extent of the new asphalt , it appears to run off the page?

ANSWER: The intent is for the asphalt paving to be reinstated. Asphalt paving will be completed under a separate contract.

4. Please provide finish elevations of all new asphalt and sidewalk areas.

ANSWER: See attached Grading Plan.

5. Please confirm the extent of the new curbs, they appear to run off the page. (are there any curbs ?

ANSWER: No concrete curbs required.

6. What are the specifications for the new sidewalk?

ANSWER: Sidewalk not in scope of work contract.

7. Are there bollards at any of the new O/H doors? I see a bollard detail, however none appear on the plan views or site plan?

ANSWER: There are no new bollards required at the overhead doors.

8. Is there any line painting ?

ANSWER: There is no line painting required.

9. Are there any parking signs ,detectable warning plates , bike racks etc ? These items are on the typical detail drawings ,however , none are indicated on the site plan.

ANSWER: There are no requirements for these items that are not shown on the site plan.

10. Does the new building extend into the current landscaped area ? is there sod repair or tree removal. Please indicate current conditions.

ANSWER: Site visit has been scheduled for the review of the extent of the repairs required for the new addition. Any tree removal will be conducted by the Owner.

11. Can you show on the site plan the current edge of the existing asphalt ,so that we can determine the rip out area.

ANSWER: The asphalt removal will be limited to the requirements of the construction of the new addition.

12. There appears to be weeping tile at all the perimeter wall footings . Where do they drain to ? or do they tie into the existing building weepers?

ANSWER: Weeping Tile to spill into swales surrounding the building.

13. What is the depth of the 6 concrete lift pits? Finish floor to top of base . Is it a level base or sloping ?

ANSWER: This pit varies per pre-manufacturer hydraulic lifts and to be coordinated with shop drawings.

14. Is there a soils report available ?

ANSWER: There is no soils report available at this time.

15. Is there a chemical analysis of the soils available? (Is the soil contaminated? What classification /table is it ?

ANSWER: To be addressed through the testing and inspection allowance.

16. Is there a room finish schedule? I did not see one on my first pass of the drawings and specs.

ANSWER: Drawing A2-301 attached shows room finish schedule.

17. What is the finish treatment of all the concrete floors in the garage /repair areas ? There is a floor hardener and floor sealer product in division 3 . Is it the intent to have a hardener and sealer to all exposed concrete?

ANSWER: Refer to Spec section 09 67 00. Typical Floor finish for the garage and repair areas.

18. Page 1 from division 08 51 13 appears to be missing. Please advise

ANSWER: Page 1 has been added to the Spec Attached.

19. Is there a specified list of product numbers/manufacturer for washroom accessories and urinal screen? I could not find these two divisions in the specifications book.

ANSWER: Refer to Attached Specification 10 21 14 for urinal screen and 10 28 10 for bath accessories.

20. Are the pit lifts and floor mounted lifts (Inground Frame Diamond Lift 3 piston , and Inground Frame Diamond Lift 2 piston and Post lifts) supplied and installed by the owner . ie NIC ? Possibly, will it be the GC's responsibility to co-ordinate the owners lift install work within the time frame of this contract? Or will the lifts be installed after final completion?

ANSWER: The lifts will be supplied and installed by the Owner under a separate contract. Coordination will be required by the contractor during the construction.

21. As per detail 3.42/S5.3 , is there a frame that will need to be cast into the concrete by the GC . If so, who provides it and what is the size ? Is it galvanized?

ANSWER: cast into the concrete by the GC. If so, who provides it and what is the size ? Is it galvanized? This frame will fall under the diamond lifts supplier. Shop drawings will show further information on size and finish.

22. There is a specification for damproofing. Where is damproofing required, possibly the lift pits ? Perimeter walls appear to have waterproofing not damproofing. Please advise.

ANSWER: Damproofing, may be needed for the lift pits, and will be determined with Diamond lift manufacture. We will leave in the documents for price.

23. There is a spec for waterstop (03 15 13, item 2.2.1) Please indicate which joints will require this waterstop , if any. At construction joints in perimeter walls? Its not indicated at footing/wall detail per 2/A5-300, please advise if required.

ANSWER: During demolition work of the existing precast panel wall, there is a good chance the existing foundations will require waterstop at joints along the foundations to tie into new foundations.

24. Are there lockers that the GC has to supply and install? There appear to be some on the second floor lobby . If so , please provide specifications.

ANSWER: Lockers are (NIC) and will be provided by the Owner.

25. Is there a roof access ladder and cage required as part of this contract ? Its mentioned in division 05 50 00 1.1.4.3 , however , I have not seen it in plan view or elevated and/or seen details of a roof ladder.

ANSWER: Access ladder has been removed from the spec. Not applicable in this design.

26. Trench drain details TD1 , Zurn Z723-HDG appears to be a cast in angle and grate system. Please provide the depth of the concrete trench for TD1, the amount of bottom slope... we presume the concrete trench would resemble 8/M102 ... please notate the rebar as well.

ANSWER: Refer to 3.42. Typical pit and trench details for reinforcement and depth.

27. Trench drain detail TD2 ,ZurnP874-18-DGE appears to be a grating only . Is there a frame or a pre made plastic trench that is also required? Or will it be a cast concrete trench with CIP angles ? If so ,what depth of trench/size of angle?

ANSWER: Grating only precast to match existing drains.

28. Is the TV and wall bracket supplied and installed by owner ? see 4/A5-200 . ie Blocking only by GC.?

ANSWER: TV and bracket supplied and installed by Owner. Blocking to be provided by General Contractor.

29. The lunch table and benches on 4,5/A5-200 , are these items by the owner? If by GC , please provide details/manufacturer.

ANSWER: Lunch table and furnishings to be supplied by Owner.

30. What is the make-up of roof designation “ R02”? For location ,see 3/A2-200 . We require details of fascia ,soffit , joint detail of deck to Kingspan panels etc.

ANSWER: Disregard R02 roof tag. We have removed it from the drawing on A2-200, and to follow structural drawings for framing details. GC to coordinate shop drawings to Architect and Structural engineer for review.

31. On A9-300 there is a stair nosing detail. Is this the detail we should be using? (if so provide cast in nosing part number) Or, are we using a full stair tread per 09 65 13 item 2.1.2 ?

ANSWER: A9-300 has been updated to remove cast in inserts. Refer to attached spec. 09 65 13 and use full stair tread.

32. Please confirm your specification regarding...(All exposed structural steel requires shot blasting) See division 05 10 00 2.2.10 , “All exposed structural steel..... requires shotblasting-see following”. and 2.2.11.3 , “Shot blast to SP10 just prior to finishing with protective paint coatings”

ANSWER: Exposed steel refers to that steel is exposed to weathering and requires special priming and painting to protect the steel from weathering and the elements of for intumescent paint. Both are not required for this job.

33. There is a list of pre-qualified roofers in division 07 52 00 , item 1.13 . Is this list specific to this project or can it be opened up to some additional experienced local roofers?

ANSWER: List of pre-qualified roofers to be removed from the specification.

34. When will the owner relocate the gas line (per M-150)? Will it be completed before the successful contractor starts on site in Feb/March 2025?

ANSWER: The relocation of the gasline has been awarded and will be scheduled to be completed prior to starting on site.

35. On M-150 , the owner is to remove 2 sanitary manholes and I presume backfill with compacted granules , at least at the MH in the building footprint. Note, however , on M200 the manhole adjacent the building is to be removed by the “site services contractor”. Can

you clarify if that specific manhole removal is by the owner or by the GC within this contract?

ANSWER: The manhole indicated on M200 to be removed by the Owner. Removals of sanitary completed by the Owner will be backfilled with compacted granular material.

36. Question from O/H door trade.....

In order to quote they will have to pick what they want:

2.2.11.1 or .2 or .3 or .4 or .5 or .6 – finish & colour

2.2.16 or .17 or .18 – Operation – manual or electric

2.2.18.1 or .2 or .3 or .4 entrapment protection

2.2.19.1 or .2 or .3 or .4 or .5 – Operator controls

2.2.20.1 or .2 or .3 or .4 or .5 or .6 or .7 or .8 or .9 – special operation

ANSWER:

Colour: Bronze Medium.

Operation: Electric

Entrapment protection: All applies unless Owner feels otherwise, see below:

1. Entrapment Protection: Required for momentary contact, includes radio control operation.
2. Pneumatic sensing edge up to 18 feet (5.5 m) wide. Constant contact only complying with UL 325/2010.
3. Photoelectric sensors monitored to meet UL 325/2010.

Operator controls: All applies unless Owner feels otherwise. See below:

1. Push-button and key operated control stations with open, close, and stop buttons.
2. Surface mounting.
3. Both interior and exterior location.

Special operation: All applies unless Owner feels otherwise. See below:

1. Pull switch.
2. Vehicle detector operation.
3. Radio control operation.
4. Card reader control.
5. Photocell operation.
6. Door timer operation.
7. Commercial light package.
8. Explosion and dust ignition proof control wiring.

Addenda are the only means of verifying, clarifying or changing any of the information contained in the RFP. Other than the RFP Coordinator, no employee or agent of NPC is authorized to change the content of this RFP and/or any addenda.

No communications are to be directed to anyone other than the RFP Coordinator.

The "RFP Coordinator" is Adam De Giuli

All questions regarding any errors, omissions or ambiguities, or to seek additional information must be submitted by Proponents via Bonfire's Opportunity Vendor Discussions board before the Proponents' Deadline for Questions. Do not submit questions to the e-mail address in Section 1.7 (RFP Coordinator)".

**GARAGE SERVICE BUILDING ADDITION
WEGO GARAGE- NIAGARA FALLS
NIAGARA PARKS**

ADDENDUM 1

The following information supplements and / or supersedes the bid documents issued on [Issued for Tender Date]. This addendum forms part of the contract documents and is to be read, interpreted, and coordinated with all other parts. The cost of all contained herein is to be included in the contract sum. The following revisions supersede the information contained in the original drawings and specifications issued for the above-named project to the extent referenced and shall become part thereof. Acknowledge receipt of this Addendum by inserting its number and date on the Tender Form. Failure to do so may subject the bidder to disqualification.

- 1.0 **Clarification: SPECIFICATION – Sections 05 50 00 – [Metal Fabrications]**
 - 1.1 [Specification updated to remove roof access ladder].
- 2.0 **Clarification: SPECIFICATION – Sections 08 36 13 – [Insulated Sectional Overhead Doors] (Part- 2.2.11.18.19.20)**
 - 2.1 [Specification was updated to show to clarify Color and Finish, Electrical operation, and special operations. Unless otherwise directed by owner, follow updated specification].
- 3.0 **Clarification: SPECIFICATION – Sections 08 51 13 – [Aluminum Fixed Windows] (Part 1 - Item 1.1.1)**
 - 3.1 [Added Page 1 to the specification document].
 - 3.2 [Added notation for approved alternates]
- 4.0 **Clarification: SPECIFICATION – Sections 09 51 13 – [Acoustical Panel Ceiling]**
 - 4.1 [Specification update per client’s request].
- 5.0 **Clarification: SPECIFICATION – Sections 10 21 14 – [Metal Toilet Compartments]**
 - 5.1 [Added to specification document].
- 6.0 **Clarification: SPECIFICATION – Sections 10 28 10 – [Toilet and Bath Accessories]**
 - 6.1 [Added to specification document].
- 7.0 **Clarification: DRAWINGS – [A2-302] – [Room Finish Schedule and Legend Added]**
 - 7.1 [The room finish was added to drawing for clarification].
- 8.0 **Clarification: DRAWINGS – [A2-200] – R02 Roof tag was removed from drawing]**
 - 8.1 [R02 was removed to the drawing for clarification].
- 9.0 **Clarification: DRAWINGS – [A9-300] – [Stair Tread detail updated]**
 - 9.1 [The stair nosing inserts were removed from the drawings for clarification on the finish of the stair treads.]

***** END OF ADDENDUM*****

37 pages total

cc: Sean Racher, Adam DeGiuli, Andrew Holmes, Ron Carpenter

Part 1 General

1.1 DESCRIPTION OF WORK

- .1 The work to be done under this section shall consist of the supply of all materials, labour, supervision, plant and equipment to construct all miscellaneous metal shown on the drawings and specified herein.
- .2 Carefully examine all drawings and the site to determine the extent of the work.
- .3 Ensure that all drawings and specification sections, including those for structural, mechanical and electrical work, are consulted to establish the Limits of work included in this section.
- .4 Provide all labour, materials, and equipment required or called for in this specification, or which is necessary, to complete the work without any extra cost. This work may required any or all, but not be limited to, any of the following
 - .1 Support brackets for millwork.
 - .2 All bollards at exterior equipment.
 - .3 Roof access ladder and roof mounted ladders and associated pieces.

1.2 RELATED SECTIONS

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 03 30 00 - Cast-in-Place Concrete.
- .3 Section 05 12 23 - Structural Steel.
- .4 Section 06 20 00 – Finish Carpentry
- .5 Section 09 91 13 - Painting.

1.3 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM A53/A53M-02, Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Steamless.
 - .2 ASTM A269-02, Specification for Seamless and Welded Austenitic Stainless Steel Tubing for General Service.
 - .3 ASTM A307-02, Specification for Carbon Steel Bolts and Studs, 60,000 PSI Tensile Strength.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.40-97, Anti-corrosive Structural Steel Alkyd Primer.
 - .2 CAN/CGSB-1.181-92, Ready-Mixed, Organic Zinc-Rich Coating.

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- .3 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-G40.20/G40.21-98, General Requirements for Rolled or Welded Structural Quality Steel.
 - .2 CAN/CSA-G164-[M92(R1998)], Hot Dip Galvanizing of Irregularly Shaped Articles.
 - .3 CAN/CSA-S16.1-01, Limit States Design of Steel Structures.
 - .4 CSA W48-[01], Filler Metals and Allied Materials for Metal Arc Welding (Developed in co-operation with the Canadian Welding Bureau).
 - .5 CSA W59-[1989(R2001)], Welded Steel Construction (Metal Arc Welding) (Imperial Version).
 - .4 The Environmental Choice Program
 - .1 CCD-047a-98, Paints, Surface Coatings.
 - .2 CCD-048-98, Surface Coatings - Recycled Water-borne.

1.4 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit two copies of WHMIS MSDS - Material Safety Data Sheets in accordance with Section 01 33 00 - Submittal Procedures. Indicate VOC's:
 - .1 For finishes, coatings, primers and paints.
- .2 Shop Drawings
 - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures and stamped by a professional engineer licenced to practice in the province of Ontario..
 - .2 Indicate materials, core thicknesses, finishes, connections, joints, method of anchorage, number of anchors, supports, reinforcement, details, and accessories.

1.5 QUALITY ASSURANCE

- .1 Test Reports: Certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: Product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.

1.6 DELIVERY, STORAGE, AND HANDLING

- .1 Packing, Shipping, Handling and Unloading:
 - .1 Deliver, store, handle and protect materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Storage and Protection:
 - .1 Cover exposed stainless steel surfaces with pressure sensitive heavy protection paper or apply strippable plastic coating, before shipping to job site.

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- .2 Leave protective covering in place until final cleaning of building. Provide instructions for removal of protective covering.

1.7 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.

Part 2 Products

2.1 MATERIALS

- .1 Steel sections and plates: to CAN/CSA-G40.20/G40.21, Grade 300W.
- .2 Steel pipe: to ASTM A53/A53M standard weight, black finish.
- .3 Welding materials: to CSA W59.
- .4 Welding electrodes: to CSA W48 Series.
- .5 Bolts and anchor bolts: to ASTM A307.
- .6 Aluminum sheet: proprietary utility sheet 12 mm (0.5") minimum thickness, colour from full range.
- .7 Stainless steel tubing: to ASTM A269, Type 302 Commercial grade with AISI No. 4 finish.
- .8 Grout: non-shrink, non-metallic, flowable, 15 MPa at 24 hours.

2.2 FABRICATION

- .1 Fabricate work square, true, straight and accurate to required size, with joints closely fitted and properly secured.
- .2 Use self-tapping shake-proof round headed screws on items requiring assembly by screws or as indicated.
- .3 Where possible, fit and shop assemble work, ready for erection.
- .4 Ensure exposed welds are continuous for length of each joint. File or grind exposed welds smooth and flush.

2.3 FINISHES

- .1 Galvanizing: hot dipped galvanizing with zinc coating 600g/m² to CAN/CSA-G164M.
- .2 Shop coat primer: to CAN/CGSB-1.40.
- .3 Zinc primer: zinc rich, ready mix to CAN/CGSB-1.181.

2.4 ISOLATION COATING

- .1 Isolate aluminum from following components, by means of bituminous paint:
 - .1 Dissimilar metals except stainless steel, zinc, or white bronze of small area.
 - .2 Concrete, mortar and masonry.
 - .3 Wood.

2.5 SHOP PAINTING

- .1 Apply one shop coat of primer to metal items, with exception of galvanized or concrete encased items.
- .2 Use primer unadulterated, as prepared by manufacturer. Paint on dry surfaces, free from rust, scale, grease. Do not paint when temperature is lower than 7° C (45° F).
- .3 Clean surfaces to be field welded; do not paint.
- .4 All exterior exposed metal to be galvanized.

2.6 ANGLE LINTELS

- .1 Refer to structural steel division.

2.7 STAIR GUARDS AND HANDRAILS

- .1 Fabricate as detailed.

2.8 MILLWORK SUPPORT BRACKETS

- .1 Supply and install Model #EH 1818 surface mounted counter supports in stock milled finish as manufactured by Rakks. On-line store at <http://store.rakks.com>.

2.9 CANTEVERED (HALF HEIGHT WALL) SUPPORT KNEE BRACE

- .1 Fabricate wall braces for walls which do not extend to the structure above to prevent the wall from moving when lateral force is applied. Details shall be similar to the "SKB Knee Brace Kit" by Pittcon Industries. Brace shall be designed to fit within stud spacing and designed according to the floor structure.

Part 3 Execution

3.1 ERECTION

- .1 Do welding work in accordance with CSA W59 unless specified otherwise.
- .2 Erect metalwork square, plumb, straight, and true, accurately fitted, with tight joints and intersections.
- .3 Provide suitable means of anchorage acceptable to such as dowels, anchor clips, bar anchors, expansion bolts and shields, and toggles.
- .4 Exposed fastening devices to match finish and be compatible with material through which they pass.

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- .5 Provide components for building by other sections in accordance with shop drawings and schedule.
 - .6 Make field connections with bolts to CAN/CSA-S16.1, or weld.
 - .7 Hand items over for casting into concrete or building into masonry to appropriate trades together with setting templates.
 - .8 Touch-up rivets, field welds, bolts and burnt or scratched surfaces after completion of erection with primer.
 - .9 Touch-up galvanized surfaces with zinc rich primer where burned by field welding.

3.2 STAIR GUARD AND HAND RAILS

- .1 Install guard and handrails to stairs as detailed.
- .2 Set railing standards in concrete. Grout to fill hole. Trowel surface smooth and flush with adjacent surfaces.

3.3 PIPE RAILINGS/ CONTROL GATES

- .1 Install pipe railings where indicated, refer to site plan. Hot dipped galvanized construction.

3.4 EXTERIOR GARBAGE ENCLOSURE

- .1 Install miscellaneous galvanized hinges, gate structure, and slab edge angle as shown.

3.5 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

Part 1 GENERAL

1.1 SECTION INCLUDES

- .1 Steel Sectional Overhead Doors.
- .2 Glazed Aluminum Sectional Overhead Doors.
- .3 Electric Operators and Controls.
- .4 Operating Hardware, tracks, and support.

1.2 RELATED SECTIONS

- .1 Section 03 30 00 - Cast-in-Place Concrete.
- .2 Section 04 22 00 - Concrete Masonry.
- .3 Section 05 50 00 - Metal Fabrications.
- .4 Section 06 11 00 - Wood Framing.
- .5 Section 07 90 00 - Joint Sealing
- .6 Section 08 71 00 – Finish Hardware.
- .7 Section 09 90 13 - Painting

1.3 REFERENCES

- .1 ANSI/DASMA 102 - American National Standard Specifications for Sectional Overhead Type Doors.

1.4 DESIGN / PERFORMANCE REQUIREMENTS

- .1 Wiring Connections: Requirements for electrical characteristics.
 - .1 Confirm with electrical drawings and specification's.
- .2 Single-Source Responsibility: Provide doors, tracks, motors, and accessories from one manufacturer for each type of door. Provide secondary components from source acceptable to manufacturer of primary components.

1.5 SUBMITTALS

- .1 Submit under provisions of Section 01 30 00.
- .2 Product Data: Manufacturer's data sheets on each product to be used, including:
 - .1 Preparation instructions and recommendations.
 - .2 Storage and handling requirements and recommendations.
 - .3 Installation methods.
- .3 Shop Drawings: Indicate plans and elevations including opening dimensions and required tolerances, connection details, anchorage spacing, hardware locations, and installation details.
- .4 Manufacturer's Certificates: Certify products meet or exceed specified requirements.

- .5 Operation and Maintenance Data.

1.6 QUALITY ASSURANCE

- .1 Manufacturer Qualifications: Company specializing in manufacturing products specified in this section with minimum five years documented experience.
- .2 Installer Qualifications: Authorized representative of the manufacturer with minimum five years documented experience.
- .3 Products Requiring Electrical Connection: Listed and classified by Underwriters Laboratories, Inc. acceptable to authority having jurisdiction as suitable for purpose specified.

1.7 DELIVERY, STORAGE, AND HANDLING

- .1 Store products in manufacturer's unopened labeled packaging until ready for installation.
- .2 Protect materials from exposure to moisture until ready for installation.
- .3 Store materials in a dry, ventilated weathertight location.

1.8 PROJECT CONDITIONS

- .1 Pre-Installation Conference: Convene a pre-installation conference just prior to commencement of field operations, to establish procedures to maintain optimum working conditions and to coordinate this work with related and adjacent work.

1.9 WARRANTY

- .1 Warranty: Manufacturer's limited door and operators System warranty for 10 year against delamination of polyurethane foam from steel face and all other components for 3 years or 20,000 cycles, whichever comes first.
- .2 Warranty: Manufacturer's limited door and operators System warranty for 10 years against delamination of polystyrene foam from steel face.

Part 2 PRODUCTS

2.1 MANUFACTURERS

- .1 Acceptable Manufacturer: Steel Craft Door Products Ltd. as available through Overhead Door Company of St.Catharines, Unit 1, 13 Seapark Drive, St. Catharines, ON, Phone: 905-682-5591 Fax: 905-682-3122
- .2 Alternates: Submit alternates as defined in Section 00 21 13 – Instructions to Tenderers.

2.2 GLAZED ALUMINUM SECTIONAL OVERHEAD DOORS

- .1 Glazed Sectional Overhead Doors: 511 Series Aluminum Doors by Overhead Door Corporation. Units shall have the following characteristics:
- .2 Door Assembly: Stile and rail assembly secured with 1/4 inch (6 mm).diameter through rods.
 - .1 Panel Thickness: 1-3/4 inches (44 mm).
 - .2 Center Stile Width: 21/32 inch (17 mm).

- .3 End Stile Width: 2-3/4 inches (70 mm).
- .4 Intermediate Rail Pair Width: 1-3/8 inches (35 mm).
- .5 Top Rail Width:
 - .1 2-3/8 inches (60 mm).
- .6 Bottom Rail Width:
 - .1 2-3/8 inches (60 mm).
- .7 Aluminum Panels: 0.050 inch (1.3 mm) thick, aluminum.
- .8 Stiles and Rails: 6063 - T6 aluminum.
- .9 High cycle spring: 100,000 cycles
- .10 Glazing:
 - .1 1/2 inch (12.5 mm) Tempered Insulating glass.
- .11 Finish and Color:
 - .1 Powder coat finish bronze medium.
- .12 Hardware: Galvanized steel hinges and fixtures. Ball bearing rollers with hardened steel races.
- .13 Lock: Interior galvanized single unit.
- .14 Weatherstripping:
 - .1 Flexible bulb-type strip at bottom section.
 - .2 Flexible Jamb seals.
 - .3 Flexible Header seal.
- .15 Track: Provide track as recommended by manufacturer to suit loading required and clearances available.
- .16 Manual Operation: N/A.
- .17 Manual Operation: N/A.
- .18 Electric Motor Operation: Provide UL listed electric operator, size and type as recommended by manufacturer to move door in either direction at not less than 2/3 foot nor more than 1 foot per second. Operator shall meet UL325/2010 requirements for continuous monitoring of safety devices.
 - .1 Entrapment Protection: Required for momentary contact, includes radio control operation.
 - .2 Pneumatic sensing edge up to 18 feet (5.5 m) wide. Constant contact only complying with UL 325/2010.
 - .3 Electric sensing edge monitored to meet UL 325/2010.
 - .4 Photoelectric sensors monitored to meet UL 325/2010.
- .19 Operator Controls:
 - .1 Push-button and key operated control stations with open, close, and stop buttons.
 - .2 Surface mounting.
 - .3 Both interior and exterior location.
- .20 Special Operation:
 - .1 Pull switch.
 - .2 Vehicle detector operation.

- .3 Radio control operation.
- .4 Card reader control.
- .5 Photocell operation.
- .6 Door timer operation.
- .7 Commercial light package.
- .8 Explosion and dust ignition proof control wiring.

Part 3 EXECUTION

3.1 EXAMINATION

- .1 Do not begin installation until openings have been properly prepared.
- .2 Verify wall openings are ready to receive work and opening dimensions and tolerances are within specified limits.
- .3 Verify electric power is available and of correct characteristics.
- .4 If preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- .1 Clean adjacent surfaces thoroughly prior to installation.
- .2 Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- .1 Install overhead doors and track in accordance with approved shop drawings and the manufacturer's printed instructions.
- .2 Coordinate installation with adjacent work to ensure proper clearances and allow for maintenance.
- .3 Anchor assembly to wall construction and building framing without distortion or stress.
- .4 Securely brace door tracks suspended from structure. Secure tracks to structural members only.
- .5 Fit and align door assembly including hardware.
- .6 Coordinate installation of electrical service. Complete power and control wiring from disconnect to unit components.

3.4 CLEANING AND ADJUSTING

- .1 Adjust door assembly to smooth operation and in full contact with weatherstripping.
- .2 Clean doors, frames, glass and polycarbonate according to manufacturer's instructions.
- .3 Remove temporary labels and visible markings. Do not remove polycarbonate care and maintenance label required to maintain warranty.

3.5 PROTECTION

- .1 Do not permit construction traffic through overhead door openings after adjustment and cleaning.
- .2 Protect installed products until completion of project.
- .3 Touch-up, damaged coatings and finishes and repair minor damage before Substantial Completion.

END OF SECTION

Part 1 General

1.1 SUMMARY OF WORK

- .1 This Section specifies thermally broken, non-operable aluminum framed windows and accessories.

1.2 RELATED REQUIREMENTS.

- .1 Section [07 26 00 - Vapour Retarders].
- .2 Section [07 27 00 - Air Barriers].
- .3 Section [07 62 00 - Metal Flashing and Trim: Flashings].
- .4 Section [07 84 00 - Firestopping: Firestopping insulation].
- .5 Section [07 92 00 - Joint Sealing].
- .6 Section [08 80 50 - Glazing: Insulating glass units].

1.3 REFERENCE STANDARDS

- .1 Aluminum Association (AA)
 - .1 DAF 45 [2003], Designation System for Aluminum Finishes.
- .2 American Architectural Manufacturers Association (AAMA).
 - .1 AAMA-2603-[2013], Voluntary Specification, Performance Requirements and Test Procedures for Pigmented Organic Coatings on Aluminum Extrusions and Panels.
 - .2 AAMA-2604-[2013], Voluntary Specification, Performance Requirements and Test Procedures for High Performance Organic Coatings on Aluminum Extrusions and Panels.
 - .3 AAMA-2605-[2013], Voluntary Specification, Performance Requirements and Test Procedures for Superior Performing Organic Coatings on Aluminum Extrusions and Panels.
 - .4 AAMA CW-10-[2012], Care and Handling of Architectural Aluminum From Shop to Site.
- .3 ASTM International (ASTM).
 - .1 ASTM B209-[2010], Specification for Aluminum and Aluminum-Alloy Sheet and Plate
 - .2 ASTM B221-[2013], Specification for Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
 - .3 ASTM D2240 – [2010], Standard Test Method for Rubber Property—Durometer Hardness
- .4 Canada Green Building Council (CaGBC)

- .1 LEED® Canada-NC Version 1.0-[2004], LEED (Leadership in Energy and Environmental Design): Green Building Rating System Reference Package For New Construction and Major Renovations including Addendum 2007.

- .5 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-12.8-[97], Insulating Glass Units.
 - .2 CAN/CGSB-12.20-[M89], Structural Design of Glass for Buildings.
 - .3 CAN/CGSB-19.13-[M87], Sealing Compound, One-Component, Elastomeric, Chemical Curing.

- .6 CSA International (CSA)
 - .1 CAN/CSA-A440
 - .2 CAN/CSA-S157 [2005], Strength Design in Aluminum.
 - .3 CAN/CSA W59.2 [M1991(R2003)], Welded Aluminum Construction.

- .7 Environmental Choice Program (ECP)
 - .1 CCD-45-[1995], Sealants and Caulking Compounds.

- .8 Underwriter's Laboratories of Canada (ULC)
 - .1 CAN/ULC-S710.1 [2005], Standard for Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials Standard for Thermal Insulation - Bead - Applied One Component Polyurethane Air Sealant Foam, Part 1: Materials.

1.4 ADMINISTRATIVE REQUIREMENTS

- .1 Co-ordination: Co-ordinate work of this Section with work of other trades for proper time and sequence to avoid construction delays.

- .2 Pre-installation Meeting: Convene pre-installation meeting after Award of Contract and one week prior to commencing work of this Section to verify project requirements, substrate conditions and coordination with other building sub-trades, and to review manufacturer=s written installation instructions.
 - .1 Co-ordinate with other similar pre-installation meetings
 - .2 Notify attendees 2 weeks prior to meeting and ensure meeting attendees include as minimum:
 - .1 Owner
 - .2 Consultant
 - .3 Glazing subcontractor;
 - .4 Manufacturer's Technical Representative.
 - .3 Ensure meeting agenda includes review of methods and procedures related to aluminum window installation including co-ordination with related work.
 - .4 Record meeting proceedings including corrective measures and other actions required to ensure successful completion of work and distribute to each attendee within 1 week of meeting.

1.5 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Make submittals in accordance with Contract Conditions and Section [01 33 00 Submittal Procedures].
- .2 Product Data: Submit product data including manufacturer's literature for aluminum window frames, glazing, components and accessories, indicating compliance with specified requirements and material characteristics.
 - .1 Submit list on window manufacturer's letterhead of materials, components and accessories to be incorporated into Work.
 - .2 Include product names, types and series numbers.
 - .3 Include contact information for manufacturer and their representative for this Project.
- .3 Shop Drawings: Submit drawings stamped and signed by Professional Engineer registered or licensed in Province of Ontario, Canada.
 - .1 Indicate materials and details in full size scale for head, jamb and sill, profiles of components, interior and exterior trim, junction between combination units, elevations of unit, anchorage details, description of related components and exposed finishes, fasteners, and caulking.
 - .2 Indicate location of manufacturer's nameplates.
 - .3 Show size and location of seismic restraints. Include seismic design calculations
- .4 Samples:
 - .1 Submit duplicate 300 x 300 mm (12 x 12 inches) sample sections showing prefinished aluminum surface, finish, colour and texture, and including frame corner details
 - .2 Submit duplicate 300 x 300 mm (12 x 12 inches) sample sections of insulating glass unit showing glazing materials and edge and corner details.
- .5 Test Reports:
 - .1 Submit test reports showing compliance with specified performance characteristics and physical properties including air and water infiltration.
- .6 Field Reports: Submit manufacturer's field reports within 3 days of manufacturer representative's site visit and inspection.
- .7 Installer Qualifications:
 - .1 Submit letter verifying installer's experience with work similar to work of this Section

1.6 CLOSEOUT SUBMITTALS

- .1 .Operation and Maintenance Data: Supply maintenance data for windows for incorporation into manual specified in Section [01 78 00 Closeout Submittals].

- .2 Record Documentation: In accordance with Section [01 78 00 Closeout Submittals].
 - .1 List materials used in windows work.
 - .2 Warranty: Submit warranty documents specified.

1.7 DELIVERY STORAGE AND HANDLING

- .1 Delivery and Acceptance Requirements:
 - .1 Deliver material in accordance with Section 01 61 00 Common Product Requirements.
 - .2 Deliver aluminum windows in manufacturer=s original packaging with identification labels intact and in sizes to suit project.
 - .3 Brace frames to maintain squareness and rigidity during shipment
- .2 Material Handling: To AAMA CW-10.
- .3 Storage and Handling Requirements: Store materials off ground and protected from exposure to harmful weather conditions and at temperature conditions recommended by manufacturer.
 - .1 Material storage: To AAMA CW-10.
- .4 Packaging Waste Management:
 - .1 Separate and recycle waste packaging materials in accordance with Section [01 74 19 Construction Waste Management and Disposal].
 - .2 Remove waste packaging materials from site and dispose of packaging materials at appropriate recycling facilities.

1.8 WARRANTY

- .1 Project Warranty: Refer to Contract Conditions for project warranty provisions.
- .2 Manufacturer's warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to and not intended to limit other rights Owner may have under Contract Conditions.
- .3 Warranty period: 5 years commencing on Date of Substantial Performance of Work.
 - .1 Insulating glass units: [10] years, on Date of Substantial Performance of Work.

Part 2 Products

2.1 MANUFACTURER

- .1 Manufacturer: Alumicor Limited, 290 Humberline Drive, Toronto, Ontario, Canada M9W 5S2, Phone: (416) 745-4222 or (877) ALUMICOR, e-mail: info@Alumicor.com, URL: www.Alumicor.com. Or approved alternate.

2.2 DESCRIPTION

- .1 Thermally broken, aluminum framed, windows with double glazed insulating glass units with concealed tamperproof fasteners.

2.3 DESIGN CRITERIA

- .1 .Design aluminum components to CAN/CSA S157
- .2 Window Classification: To CAN/CSA A440/A440.1.
 - .1 Air tightness: Fixed.
 - .2 Water tightness: [B7].
 - .3 Wind load resistance: [C5].
 - .4 Condensation resistance: Temperature Index, I=58 minimum.

2.4 WINDOW MATERIALS

- .1 Main Frame: Extruded aluminum: To ASTM B221, 6063 alloy with T5 or T6 temper.
 - .1 Main Frame Depth: 5 ¾.
 - .2 Interior colour: Anodised Aluminum.
 - .3 Exterior colour: Anodised Aluminum.
- .2 Insulating glass units: In accordance with Section 08 80 50 – Glazing.

2.5 FIXED WINDOWS

- .1 Acceptable Material: Alumicor Ltd., FeatureLine 990 Series. Or approved alternate.

2.6 WINDOW FABRICATION

- .1 Fabricate windows to CAN/CSA A440/A440.1.
 - .1 Do glazing in accordance with Section 08 80 00 – Glazing.
- .2 Fabricate aluminum assemblies of extruded sections to sizes and profiles indicated.
 - .1 Ensure vertical and horizontal members are tubular extrusions designed for shear block and/or screw spline corner construction.
 - .2 Install exterior feature caps as indicated.
- .3 Construct units square, plumb and free from distortion, waves, twists, buckles or other defects detrimental to performance or appearance.
 - .1 Brace frames to maintain squareness and rigidity during installation.
- .4 Fabricate units square and true with tolerance of plus or minus 1.5 mm (0.06 inches) maximum for units with diagonal measurement of 1800 mm (6 feet) maximum and plus or minus 3 mm (0.125 inches) maximum for units with diagonal measurement greater than 1800 mm (6 feet).
- .5 Accurately fit and secure joints and corners.
 - .1 Ensure joints are flush, hairline, and weatherproof.
- .6 Face dimensions detailed are maximum permissible sizes.

- .7 Use only concealed tamperproof fasteners
 - .1 Where fasteners cannot be concealed, countersunk screws finished to match adjacent material may be used upon receipt of written approval from Consultant.
- .8 Visible manufacturer's labels are not permitted

2.7 FINISHES

- .1 Exterior exposed aluminum surfaces: To AAMA 2605, 3-coat, thermal setting enamel consisting of primer, colour coat and clear coat.
- .2 Exterior exposed aluminum surfaces: To AA DAF-45-M12C22A31, Architectural Class II, clear anodized [10 µm (0.0004 inches)] minimum thickness.
 - .1 Acceptable material: Alumicor Ltd., Class II Anodic Finish.
- .3 Interior exposed aluminum surfaces: To [AAMA 2603, 1-coat pigmented organic thermal setting finish] [AAMA 2604, 2-coat].
 - .1 Acceptable material; PPG Industries Inc., [Duracron] [Duramar].
- .4 Interior exposed aluminum surfaces: To AA DAF-45-M12C22[A41][A44], Architectural Class I, anodized [18 µm (0.0007 inches)] minimum thickness coloured [clear].
 - .1 Acceptable material: Alumicor Ltd., Class I Anodic Finish.
- .5 Interior exposed aluminum surfaces: To AA DAF-45-M12C22A31, Architectural Class II, clear anodized [10 µm (0.0004 inches)] minimum thickness.
 - .1 Acceptable material: Alumicor Ltd., Class II Anodic Finish.

2.8 AIR BARRIER AND VAPOUR RETARDER

- .1 Equip window frames with site installed [air barrier] [and] [vapour retarder] material for sealing to building [air barrier] [and] [vapour retarder] as follows:
 - .1 Material: identical to, or compatible with, building air barrier and vapour retarder materials to provide required air tightness and vapour diffusion control throughout exterior envelope assembly.
 - .2 Material width: adequate to provide required air tightness and vapour diffusion control to building [air barrier] [and] [vapour retarder] from interior.

2.9 ACCESSORIES

- .1 Gasketing: To [CCD-45] Black EPDM gaskets.
- .2 Setting Blocks: To [CCD-45] and [ASTM D2240], neoprene, Shore A Durometer hardness.
- .3 Spacers: To [CCD-45] and [ASTM D2240], neoprene, Shore A Durometer hardness.
- .4 Sealant: To [CAN/CGSB-19.13], Class 40, one-component, cold-applied, non-sagging silicone.
 - .1 Acceptable material: Dow Corning 795.
- .5 Sealant Bond Breaker: Open cell foam backer rod sized to suit project requirements.

- .6 Flashings: 3mm (0.125 inches) thick aluminum flashing to profiles indicated [and in accordance with Section 07 62 00 Sheet Metal Flashing and Trim].
- .7 Liquid Foam Insulation: Single component, moisture cure, low expansion rate spray-in-place polyurethane liquid foam insulation to ULC-S710.1 and in accordance with manufacturer's written recommendations.
- .8 Fasteners: Tamperproof, cadmium plated stainless steel [300] [or] [400] series to meet window requirements and as recommended by manufacturer.

2.10 PRODUCT SUBSTITUTIONS

- .1 Substitutions: In accordance with Section 01 23 13 - Product Substitution Procedures
- .2 Ensure components come from one manufacturer.

Part 3 EXECUTION

3.1 INSTALLERS

- .1 Use only installers with 2 years minimum experience in work similar to work of this Section.

3.2 EXAMINATION

- .1 Verification of Conditions: Verify that conditions of substrate previously installed under other Sections or Contracts are acceptable for window installation in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate in presence of Consultant.
 - .2 Inform Consultant 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 Consultant.

3.3 WINDOW INSTALLATION

- .1 Install windows in accordance with manufacturer's written instructions and to CAN/CSA A440/A440.1.
- .2 Arrange components to prevent abrupt variation in colour.
- .3 Co-ordinate attachment and seal of perimeter vapour retarder in accordance with Section 07 26 00 – Vapour Retarders.

- .4 Co-ordinate attachment and seal of perimeter air barrier in accordance with Section [07 27 00 – Air Barriers].

3.4 SILL INSTALLATION

- .1 Install aluminum sills with uniform wash to exterior, level in length, straight in alignment with plumb upstands and faces.
- .2 Cut sills to fit
- .3 Secure sills in place with anchoring devices located at ends [and joints of continuous sills] and evenly spaced [600] mm ([24] inches) on centre in between.
- .4 Fasten [expansion joint cover plates] [and] [drip deflectors] with tamperproof, self-tapping cadmium plated stainless steel screws.
- .5 Maintain [6 to 9] mm ([0.25 to 0.375] inches) space between butt ends of continuous sills. For sills over 1200 mm in length, maintain 3 to 6 mm space at each end.

3.5 CAULKING

- .1 Apply sealant in accordance with Section [07 92 00 - Joint Sealing]. Conceal sealant within window units except where exposed use is approved in writing by Consultant.
- .2 Seal joints between windows and window sills with sealant. Bed sill expansion joint cover plates and drip deflectors in bedding compound.
 - .1 Caulk between sill upstand and window frame. Caulk butt joints in continuous sills.

3.6 FIELD QUALITY CONTROL

- .1 Field Inspection: Coordinate field inspection in accordance with Section [01 45 00 Quality Control].
- .2 Site Installation Tolerances: Install windows square and true with tolerance of plus or minus 1.5 mm (0.06 inches) maximum for units with diagonal measurement of 1800 mm (6 feet) maximum and plus or minus 3 mm (0.125 inches) maximum for units with diagonal measurement greater than 1800 mm (6 feet).
- .3 Manufacturer's Services:
 - .1 Coordinate manufacturer's services with Section [01 45 00 - Quality Control].
 - .2 Submit to Consultant a written agreement from the manufacturer to perform the manufacturer's services.
 - .3 Schedule manufacturer's review of work procedures at stages listed:
 - .1 Product Application: [1] off site review[s].

- .2 Fabrication and Handling: [1] review[s] at authorized installers fabrication facilities.
- .3 Installation: [3] site reviews at [commencement of Work] [50% completion of Work] [Upon completion of Work].
- .4 Submit manufacturer's written reports to Consultant describing:
 - .1 The scope of work requested.
 - .2 Date, time and location.
 - .3 Procedures performed.
 - .4 Observed or detected non-compliances or inconsistencies with manufacturers' recommended instructions.
 - .5 Limitations or disclaimers regarding the procedures performed.
 - .6 Obtain reports within seven days of review and submit immediately to Consultant.

3.7 CLEANING

- .1 Progress Cleaning: Perform cleanup as work progresses [in accordance with Section 01 74 00 - Cleaning and Waste Management].
 - .1 Remove sealant and caulking drippings as work progresses.
 - .2 Leave work area clean end of each day.
- .2 Final leaning: Upon completion, remove surplus materials, rubbish, tools, and equipment [in accordance with Section 01 74 00 – Cleaning and Waste Management].
- .3 Waste Management:
 - .1 Co-ordinate recycling of waste materials with 01 74 19 Construction Waste Management and Disposal.
 - .2 Collect recyclable waste and dispose of or recycle field generated construction waste created during construction or final cleaning related to work of this Section.
 - .3 Remove recycling containers and bins from site and dispose of materials at appropriate facility.

3.8 PROTECTION

- .1 Protect installed windows and components from damage during construction.
- .2 Repair damage to adjacent materials caused by aluminum window installation.

END OF SECTION

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 09 22 27 - Acoustical Suspension
- .2 Division 21 – Fire Suppression
- .3 Division 23 – Mechanical
- .4 Division 26 – Electrical
- .5 Division 27 – Communication
- .6 Division 28 – Electronic Safety and Security

1.2 REFERENCES

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM E1264-98, Classification for Acoustical Ceiling Products.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-51.34-M86, Vapour Barrier, Polyethylene Sheet, for Use in Building Construction.
 - .2 CAN/CGSB-92.1-M89, Sound Absorptive Prefabricated Acoustical Units.
- .3 Canadian Standards Association (CSA)
 - .1 CSA B111-74(R1998), Wire Nails, Spikes and Staples.
- .4 Underwriters Laboratories of Canada (ULC)
- .5 CAN/ULC-S102-88(R2000), Surface Burning Characteristics of Building Materials.

1.3 SUBMITTALS

- .1 Comply with Section 01 33 00 Submittal Procedures
- .2 Product Data: Submit manufacturer's technical data for each type of acoustical ceiling unit and suspension system required.
- .3 Samples: Minimum 150 mm x 150 mm (0.5" x 0.5") samples of specified acoustical panel; 200 MM (0.67") long samples of exposed wall molding and suspension system, including main runner and 1200 mm (48") cross tees.
- .4 Shop Drawings: Layout and details of acoustical ceilings. Show locations of items which are to be coordinated with, or supported by the ceilings.

- .5 Certifications: Manufacturer's certifications that products comply with specified requirements, including laboratory reports showing compliance with specified tests and standards.

1.4 QUALITY ASSURANCE

- .1 Comply with Section 01 00 05 General Instruction and Section 01 00 10 General Work
- .2 Single-Source Responsibility: Provide acoustical panel units and grid components by a single manufacturer.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Comply with Section 01 00 05 General Instruction and Section 01 00 10 General Work.
- .2 Package and ship per manufacturer's recommendations.
 - .1 Store per manufacturer's instructions.

1.6 WARRANTY

- .1 Warrant materials and workmanship against defects after completion and final acceptance of Work.
- .2 Warranty Period:
 - .1 Acoustical Panels: Ten (10) years from date of substantial completion
 - .2 Attachment devices: Ten (10) years from date of substantial completion

1.7 EXTRA MATERIALS

- .1 Provide extra materials of acoustic units in accordance with Section 01 78 00 - Closeout Submittals.
- .2 Provide acoustical units amounting to 2% of gross ceiling area (minimum 1 carton) for each pattern and type required for project.
- .3 Extra materials to be from same production run as installed materials.
- .4 Clearly identify each type of acoustic unit, including colour and texture.
- .5 Deliver to Owner, upon completion of the work of this section.
- .6 Store where directed by Owner.

1.8 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Waste Management and Disposal.

Part 2 Products

2.1 MATERIALS

- .1 Acceptable material by Armstrong or approved alternate:
 - .1 S.A.T. Type 1: Cortega manufactured by Armstrong 24x24.

Part 3 Execution

3.1 EXAMINATION

- .1 Do not install acoustical panels and tiles until work above ceiling has been inspected by all Consultants.

3.2 INSTALLATION

- .1 Install acoustical panels and tiles in ceiling suspension system.
- .2 In fire rated ceiling systems, secure lay-in panels with hold-down clips and protect over light fixtures, diffusers, air return grilles and other appurtenances according to Certification Organizations design requirements.

3.3 APPLICATION

- .1 Install acoustic units to clean, dry and firm substrate.
- .2 Install acoustical units. Refer to reflected ceiling plan.
- .3 Scribe acoustic units to fit adjacent work. Butt joints tight, terminate edges with moulding.

3.4 INTERFACE WITH OTHER WORK

- .1 Co-ordinate ceiling work to accommodate components of other sections, such as light fixtures, diffusers, speakers, sprinkler heads, to be built into acoustical ceiling components.

3.5 ADJUSTMENT AND CLEANING

- .1 Replace damaged and broken panels.
- .2 Comply with manufacturers' written instructions for cleaning and touch up of minor finish damage. Remove and replace work that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION

Part 1 General

1.1 RELATED SECTIONS

- .1 Section 04 22 00 – Concrete Masonry
- .2 Section 06 10 11 – Rough Carpentry
- .3 Section 09 30 13 – Porcelain Tiling
- .4 Section 09 96 59 – High Build Glazing
- .5 Section 10 28 10 - Toilet And Bath Accessories.

1.2 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM).
 - .1 ASTM A167-[99], Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM A240/A240M-[02], Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels and for General Applications.
 - .3 ASTM A480/A480M-[03], Specification for General Requirements for Flat-Rolled Stainless and Heat Resisting Steel Plate, Sheet, and Strip.
 - .4 ASTM A653/A653M-[02a], Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .5 ASTM D6578, Graffiti Resistant
- .2 Canadian General Standards Board (CGSB).
 - .1 CAN/CGSB-1.81-[M90], Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-[92], Gloss Alkyd Enamel Air Drying and Baking.
 - .3 CAN/CGSB-1.104M-[91], Semigloss Alkyd, Air Drying and Baking Enamel.
- .3 Canadian Standards Association (CSA International).
 - .1 CAN/CSA-B651-[95(R2001)], Barrier-Free Design.

1.3 SUBMITTALS

- .1 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and data sheet in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Shop Drawings:
 - .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Indicate fabrication details, plans, elevations, hardware, and installation details.

.3 Samples:

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Submit duplicate 300 x 300 mm samples of panel showing finished edge and corner construction and core construction.
- .3 Submit duplicate representative samples of hardware items, including brackets, fastenings and trim.

.4 Manufacturer's Instructions:

- .1 Submit manufacturer's installation instructions.

1.4 QUALITY ASSURANCE

- .1 Test Reports: certified test reports showing compliance with specified performance characteristics and physical properties.
- .2 Certificates: product certificates signed by manufacturer certifying materials comply with specified performance characteristics and criteria and physical requirements.
- .3 Mock-ups:
 - .1 Construct mock-ups in accordance with Section 01 45 00 - Quality Control.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management and Disposal.

Part 2 Products

2.1 MATERIALS

- .1 Metal toilet partitions and urinal screens to be powder coated steel with stainless steel hardware package by Hadrian Manufacturing Inc., 965 Syscon Road, Burlington, ON L7L 5S3 Tel: 905-333-0300 Fax: 905-333-1841 or approved equal.
 - .1 Toilet partitions to be Standard Series, headrail braced with no-grip top rail c/w the "no-sight line solution" feature, heavy duty continuous hinge and reinforced Masonite core.
 - .2 Urinal screens to be wall mounted
- .2 Sheet steel: commercial quality to ASTM [A480] [A653] with [ZF001] designation zinc coating.
- .3 Minimum base steel thickness:
 - .1 Panels and doors: 0.8 mm.
 - .2 Pilasters: 1.0 mm.
 - .3 Reinforcement: 3.0 mm.
- .4 Stainless steel sheet metal: to ASTM A167 with #4 brushed finish.

- .5 Pilaster shoe: 0.8 mm stainless steel 76 mm high.
- .6 Attachment: stainless steel tamperproof type screws and bolts.
- .7 Hardware: Brackets and door hardware to be zinc die-cast with copper, nickel and chrome
- .8 Acceptable Alternate: GSS, London.

2.2 COMPONENTS

- .1 Hinges:
 - .1 Heavy duty, non-lubricating nylon bushings.
 - .2 Material/finish: chrome plated non-ferrous casting.
 - .3 Swing: inward, limited, handicap units to Swing outward.
 - .4 Return movement: gravity.
 - .5 Adjustable to hold door open at any angle up to 90 degrees.
 - .6 Emergency access feature.
- .2 Latch set: surface mounted, combination latch, door-stop, keeper and bumper, chrome plated non-ferrous, emergency access feature.
- .3 Wall and connecting brackets: chrome plated non-ferrous, extrusion or casting.
- .4 Door pull: Barrier-free type suited for out swinging doors, chrome plated non-ferrous.

2.3 FABRICATION

- .1 Construction: Doors, panels and pilasters including screens shall be constructed of two zinc coated galvaneal steel sheets laminated under pressure to a masonite reinforced honeycomb core for sound deadening and rigidity. Formed edges to be welded together and inter-locked tension with a rolled oval crown locking bar, mired, welded and ground smooth at the corners. Honeycomb to have a maximum 25 mm (1") cell size. Standard doors to be 610 mm wide x 1460 mm high. Barrier Free stall door to be 1070 mm wide.
- .2 Doors: 25 mm (1") thick with cover sheets not less than 0.8 mm (22 ga.).
- .3 Panels: 25 mm (1") thick with cover sheets not less than 0.8 mm (22 ga.).
- .4 Pilasters: 32 mm (1.25") thick, with cover sheets not less than 0.9 mm (20 ga.).
- .5 Headrail: 25 mm (1") thick x 41 mm (1.625") extruded aluminum with double-ridge anti-grip design. Wall thickness to be 1.5 mm (0.060") and shall be securely attached to wall and pilasters with manufacturer's fittings. All joints at headrail to be made at a pilaster.
- .6 Provide internal reinforcement at areas of attached hardware and fittings. Temporarily mark location of reinforcement for tissue holders and grab bars.
- .7 Provide 0.8 mm thick type 430 stainless steel protective shields on urinal side of toilet partition panels next to urinals and on urinal screens. Make protective shields 1000 mm high with top of shield 1200 mm above finished floor. Make shields to full width of partition or screen panel. Fasten with stainless steel screws.

- .8 Provide privacy screen, with metal panel post design as indicated.

2.4 FINISHES

- .1 Clean, degrease and neutralize steel components with phosphate or chromate treatment.
- .2 Spray apply primer to CAN/CGSB-1.81, 1 coat.
- .3 Spray apply finish enamel to CAN/CGSB-1.104, Type 2, semi-gloss, 2 coats and bake to smooth, hard finish 0.025 mm thick.
- .4 Finish: Colours as selected by Consultant from manufacturer's standard colours. Allow for 2 colours.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written data, including product technical bulletins, product catalogue installation instructions, product carton installation instructions, and data sheets.

3.2 INSTALLATION

- .1 Ensure supplementary anchorage, if required, is in place.
- .2 Do work in accordance with CAN/CSA-B651.

3.3 ERECTION

- .1 Partition erection.
 - .1 Install partitions secure, plumb and square.
 - .2 Leave 12 mm space between wall and panel or end pilaster.
 - .3 Anchor mounting brackets to masonry/concrete surfaces using screws and shields: to hollow walls using bolts and toggle type anchors.
 - .4 Attach panel and pilaster to brackets with through type sleeve bolt and nut.
 - .5 Provide for adjustment of floor-braced pilasters variations with screw jack through steel saddles made integral with pilaster. Conceal floor fixings with stainless steel shoes.
 - .6 Provide templates for locating threaded studs through finished ceilings.
 - .7 Equip doors with hinges, latch set, and each stall with coat hook mounted on door, mounting heights 1200 mm. Adjust and align hardware for easy, proper function. Set door open position at full open.
 - .8 Equip outswinging doors with door pulls on inside and outside of door in accordance with CAN/CSA-B651.
 - .9 Install hardware grab bars where shown.
 - .10 Install washroom accessories as shown on the construction documents.

- .2 Floor supported and overhead braced partition erection.
 - .1 Attach pilasters to floor with pilaster supports, floor channel adjust and level, plumb, and tighten installation with levelling device, secure to floor channel.
 - .1 Secure pilaster shoes in position.
 - .2 Secure headrail to pilaster face with not less than two fasteners per face.
 - .3 Set tops of doors parallel with overhead brace when doors are in closed position.
 - .2 Floor supported partition erection.
 - .1 Secure pilasters to floor with pilaster supports anchored with minimum 50 mm penetration in structural floor.
 - .2 Level, plumb and tighten installation with levelling device.
 - .3 Secure pilaster shoes in position.
 - .4 Set tops of doors level with tops of pilasters when doors are in closed position.
 - .3 Screens erection:
 - .1 Provide urinal stall screens consisting of panel , pilaster and headrail as specified for toilet compartments.
 - .2 Anchor screen panels to walls with 3 panel brackets and vertical upright consisting of tubular headrail stock and end sockets, anchored to floor and ceiling.
 - .3 Secure to supplementary anchorage above ceiling finish to receive screen vertical upright.

3.4 FIELD QUALITY CONTROL

- .1 Have manufacturer of products supplied under this Section review Work involved in handling, installation/application, protection and cleaning of its product[s], and submit written reports in acceptable format to verify compliance of Work with Contract.
- .2 Manufacturer's field services: provide manufacturer's field services consisting of product use recommendations and periodic site visits for inspection of product installation in accordance with manufacturer's instructions.

3.5 ADJUSTING

- .1 Adjust doors and locks for optimum, smooth operating condition.
- .2 Lubricate hardware and other moving parts.

3.6 CLEANING

- .1 Perform cleaning after installation to remove construction and accumulated environmental dirt.
- .2 Clean surfaces after installation using manufacturer's recommended cleaning procedures.
- .3 Clean aluminum with damp rag and approved non-abrasive cleaner.
- .4 Clean and polish hardware and stainless components.

- .5 Upon completion of installation, remove surplus materials, rubbish, tools and equipment barriers.

END OF SECTION

Part 1 General

1.1 Related Sections

- .1 Section 01 33 00 - Submittal Procedures.
- .2 Section 08 80 50 - Glazing: Mirrors.

1.2 References

- .1 American Society for Testing and Materials (ASTM)
 - .1 ASTM A167-99, Standard Specification for Stainless and Heat-Resisting Chromium-Nickel Steel Plate, Sheet, and Strip.
 - .2 ASTM B456-95, Standard Specification for Electrodeposited Coatings of Copper Plus Nickel Plus Chromium and Nickel Plus Chromium.
 - .3 ASTM A653/A653M-99, Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
 - .4 ASTM A924/A924M-99, Standard Specification for General Requirements for Steel Sheet, Metallic-Coated by the Hot-Dip Process.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-1.81-M90, Air Drying and Baking Alkyd Primer for Vehicles and Equipment.
 - .2 CAN/CGSB-1.88-92, Gloss Alkyd Enamel, Air Drying and Baking.
 - .3 CAN/CGSB-12.5-M86, Mirrors, Silvered.
 - .4 CGSB 31-GP-107Ma-90, Non-inhibited Phosphoric Acid Base Metal Conditioner and Rust Remover.
- .3 Canadian Standards Association (CSA)
 - .1 CAN/CSA-B651-95, Barrier-Free Design.
 - .2 CAN/CSA-G164-M92, Hot Dip Galvanizing of Irregularly Shaped Articles.

1.3 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Indicate size and description of components, base material, surface finish inside and out, hardware and locks, attachment devices, description of rough-in-frame, building-in details of anchors for grab bars.

1.4 Closeout Submittals

- .1 Provide maintenance data for toilet and bath accessories for incorporation into manual specified in Section 01 78 00 - Closeout Submittals.

1.5 Waste Management and Disposal

1.6 Extra Materials

- .1 Provide special tools required for accessing, assembly/disassembly or removal for toilet and bath accessories in accordance with requirements specified in Section 01 78 00 - Closeout Submittals.
- .2 Deliver special tools to Owner.

Part 2 Products

2.1 Materials

- .1 Sheet steel: to ASTM A653/A653M with ZF001 designation zinc coating.
- .2 Stainless steel sheet metal: to ASTM A167.
- .3 Stainless steel tubing: commercial grade, seamless welded, 1.2 mm wall thickness.
- .4 Fasteners: concealed screws and bolts hot dip galvanized, exposed fasteners to match face of unit. Expansion shields fibre, lead or rubber as recommended by accessory manufacturer for component and its intended use.

2.2 Components

- .1 **Toilet tissue dispenser:** double roll type, surface mounted, chrome plated steel frame, capacity of 500 double ply roll, roll under spring tension for controlled delivery.
 - .1 Supplied by Owner, Installed by Contractor. 1 per toilet stall.
- .2 **Hand Dryer:** AIRBLADE by Dyson
 - .1 Installed by Contractor. 1 per sink/ lavatory
- .3 **Paper towel dispensers:** for roll paper towels, stainless steel cabinet, hinged front panel, lock and key, surface mounted.
 - .1 Acceptable material: Supplied by Owner, installed by Contractor.
- .4 **Soap dispensers:** liquid push-in valve 152 mm spout, self contained 1.14 L tank, stainless steel piston and valve assembly, tamper proof filler lock, surface mounted, exposed metal components chrome plated.
 - .1 Acceptable material: Supplied by Owner, installed by Contractor.
- .5 **Feminine Hygiene Dispenser:**
 - .1 Supplied by Owner, Installed by Contractor. 1 per stall in female water closet
- .6 **Handi-Cap. Mirror:** fixed angle tilt mirror, in all washrooms with barrier free stall.
 - .1 Acceptable material: American Specialties Inc. 1 in each washroom with ¼" temp. glass polished mirror.

-
- .7 **Grab bars:** concealed mounting, peened grip 32 dia
- .1 Acceptable material: 760mm x 760mm "L" shaped bar and one 1200mm bar behind water closet, 1 per barrier free stall to Building Code standards for clearance.
- .8 **Robe Hooks:** Watrous W0745Z
- .9 **Waste receptacle:** to CGSB 112-GP-3M, free standing receptacle. 1 in each washroom
- .1 Acceptable material: Watrous W-0812
- .10 **Baby Change:** Horizontal wall mounted baby change station locations as indicated on plans.
- .1 Acceptable material: Kola Kare Product KB200-00 by Bobrick.
- .11 **Folding Shower Seat:** Surface mounted stainless steel folding shower seat with self locking mechanism.
- .1 Acceptable material: Bobrick B5191.
12. **Shower Curtain and Rods:** Stainless steel shower curtain rods and vinyl shower curtains complete with all accessories (rings, escutcheons, etc.)
- .1 Acceptable Material: Shower curtains Bobrick 204-2 and 204-3, Shower Curtain Rods Bobrick B-6047, B-6107, B-207
13. **Mirror:** Stainless steel Channel frame mirror, 18" x 30"
- .1 Acceptable Material: Bobrick B-4998.
14. **Stainless Steel Swing-up Grab Bar:**
- .1 Acceptable Material: Bobrick B-4998

2.3 Fabrication

- .1 Weld and grind joints of fabricated components flush and smooth. Use mechanical fasteners only where approved.
- .2 Wherever possible form exposed surfaces from one sheet of stock, free of joints.
- .3 Brake form sheet metal work with 1.5 mm radius bends.
- .4 Form surfaces flat without distortion. Maintain flat surfaces without scratches or dents.
- .5 Back paint components where contact is made with building finishes to prevent electrolysis.
- .6 Hot dip galvanize concealed ferrous metal anchors and fastening devices to CSA G164.

- .7 Shop assemble components and package complete with anchors and fittings.
- .8 Deliver inserts and rough-in frames to job site at appropriate time for building-in. Provide templates, details and instructions for building in anchors and inserts.
- .9 Provide steel anchor plates and components for installation on studding and building framing.

2.4 Finishes

- .1 Chrome and nickel plating: to ASTM B456, satin finish.
- .2 Baked enamel: condition metal by applying one coat of metal conditioner to CGSB 31-GP-107Ma, apply one coat Type 2 primer to CAN/CGSB-1.81 and bake, apply two coats Type 2 enamel to CAN/CGSB-1.88 and bake to hard, durable finish. Sand between final coats. Colour selected from standard range by Consultant.
- .3 Manufacturer's or brand names on face of units not acceptable.

Part 3 Execution

3.1 Installation

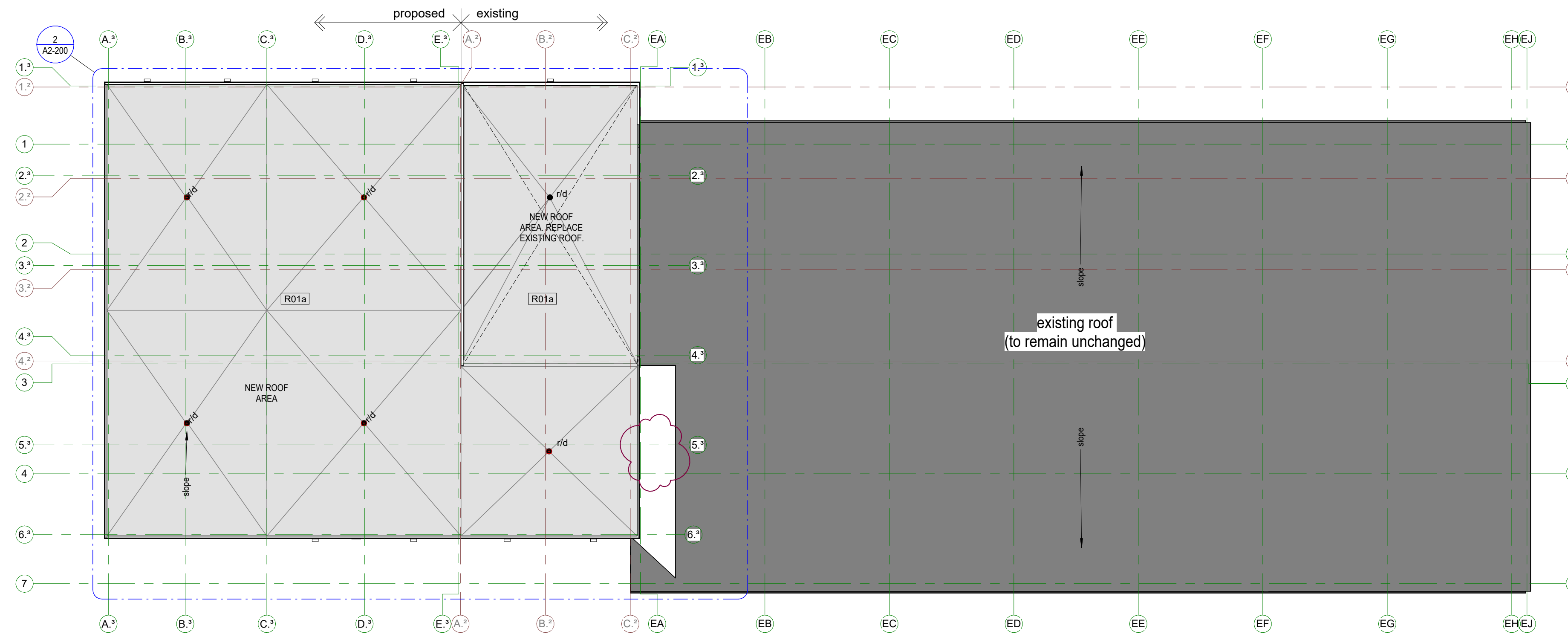
- .1 Install and secure accessories rigidly in place as follows:
 - .1 Stud walls: install steel back-plate to stud prior to plaster or drywall finish. Provide plate with threaded studs or plugs.
 - .2 Hollow masonry units or existing plaster/drywall: use toggle bolts drilled into cell/wall cavity.
 - .3 Solid masonry, marble, stone or concrete: use bolt with lead expansion sleeve set into drilled hole.
 - .4 Toilet/shower compartments: use male/female through bolts.
- .2 Install grab bars on built-in anchors provided by bar manufacturer.
- .3 Use tamper proof screws/bolts for fasteners.
- .4 Fill units with necessary supplies shortly before final acceptance of building.
- .5 Install mirrors in accordance with Section 08 80 50 - Glazing.

3.2 SCHEDULE

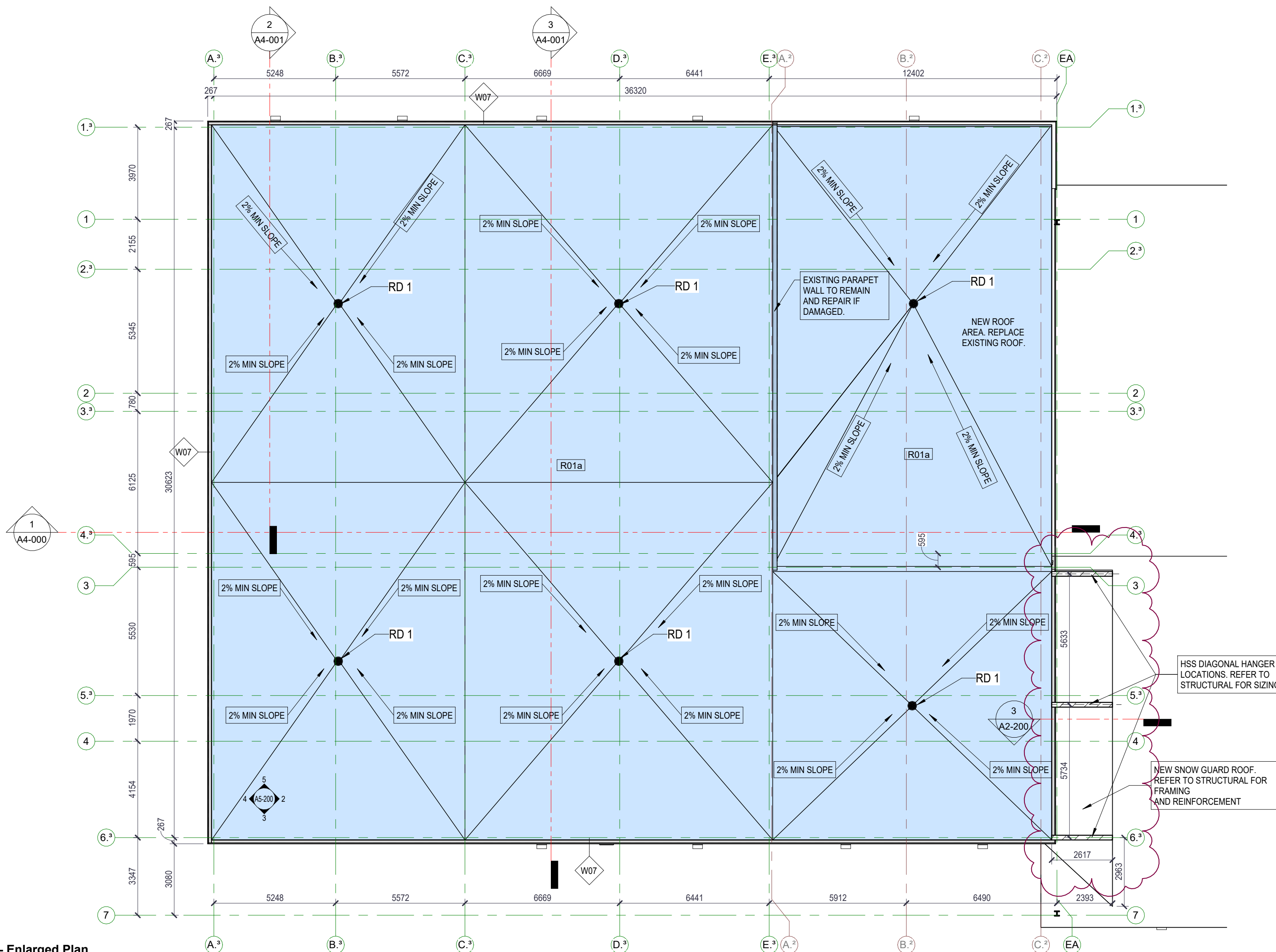
- .1 Locate accessories where indicated and as follows. Exact locations determined by Architect.
- .2 Toilet tissue dispenser: one in each toilet compartment.

- .3 Paper towel dispenser: one per two wash basins. Maximum height of dispenser and operable part from floor 1200 mm.
- .4 Soap dispenser: one per two wash basins.
- .5 Mirror Fixed tilt: as shown on drawings
- .6 Grab bars: Barrier free washroom
- .7 Deodorant block holders: one for each two urinals
- .8 Robe Hook – as shown on drawings.

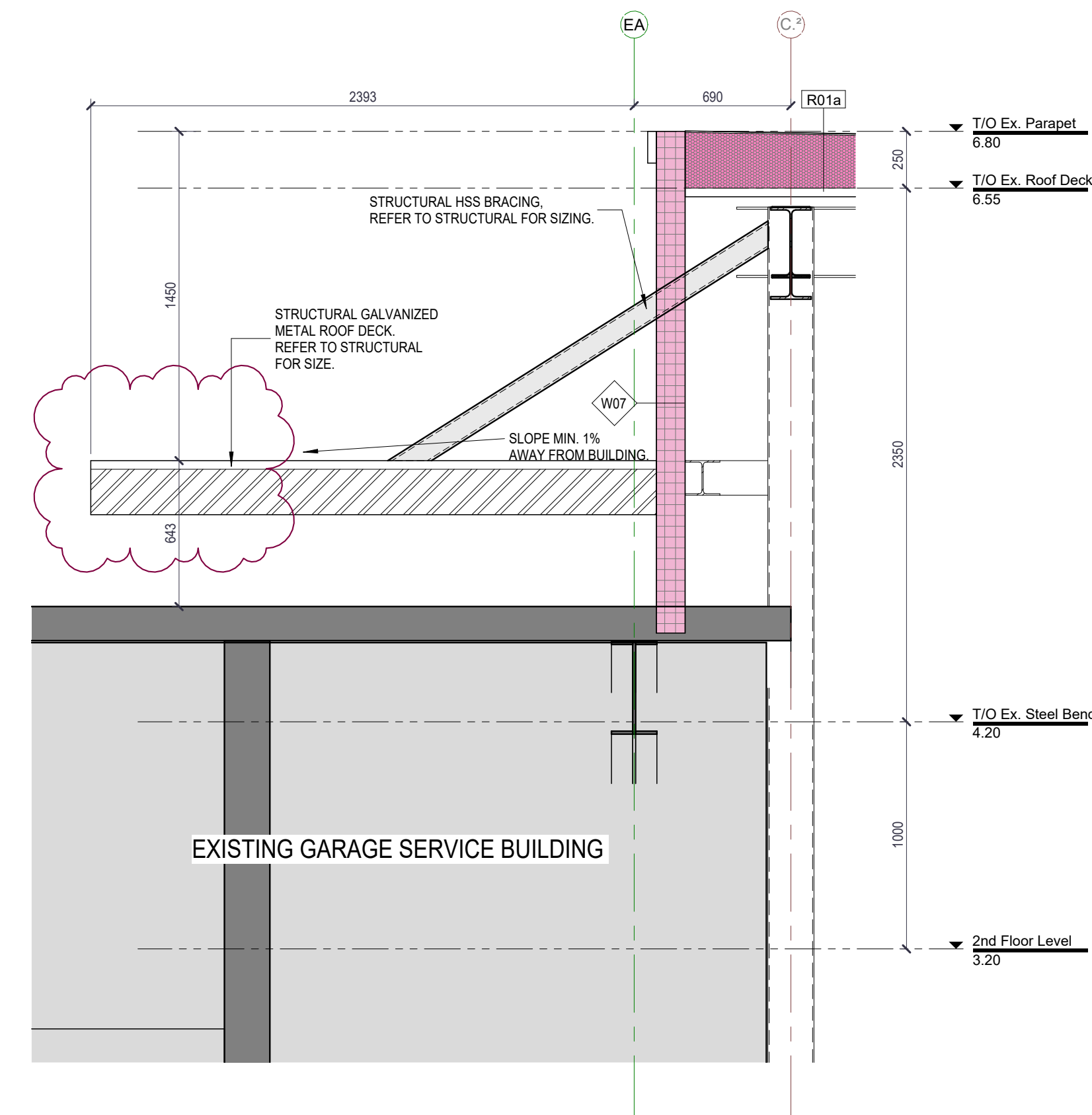
END OF SECTION



1 Roof Plan
A2-200 scale: 1:200



2 Roof Plan - Enlarged Plan
A2-200 scale: 1:125



3 Section - @ Snow Guard Roof
A2-200 scale: 1:20

Addendum #1
 Issued For Client Review
 A May 10, 2024
 B May 24, 2024
 C Dec 04, 2024



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CLIENT NAME
 Niagara Parks Commission
 PROJECT NAME
 WEGO Garage Addition-
 Phase 1
 PROJECT ADDRESS
 7805 Niagara River Pkwy, Niagara Falls, ON
 SHEET NAME
 Roof Plans

DRAWN BY: MBK
 DATE: 07/01/2025 9:53:57 AM
 SCALE: As Indicated
 PROJECT NO.: 24-006
 CHECKED: ---

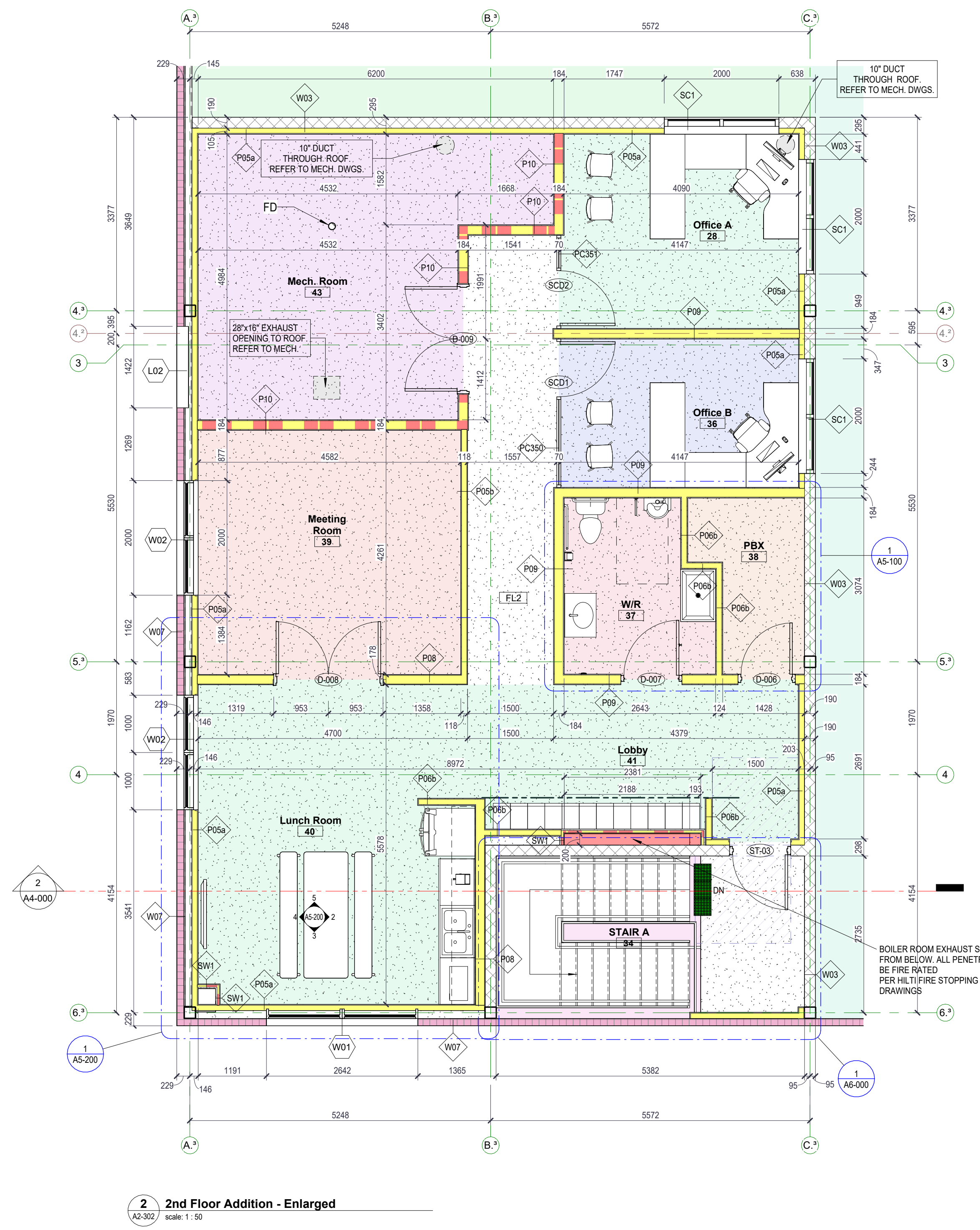
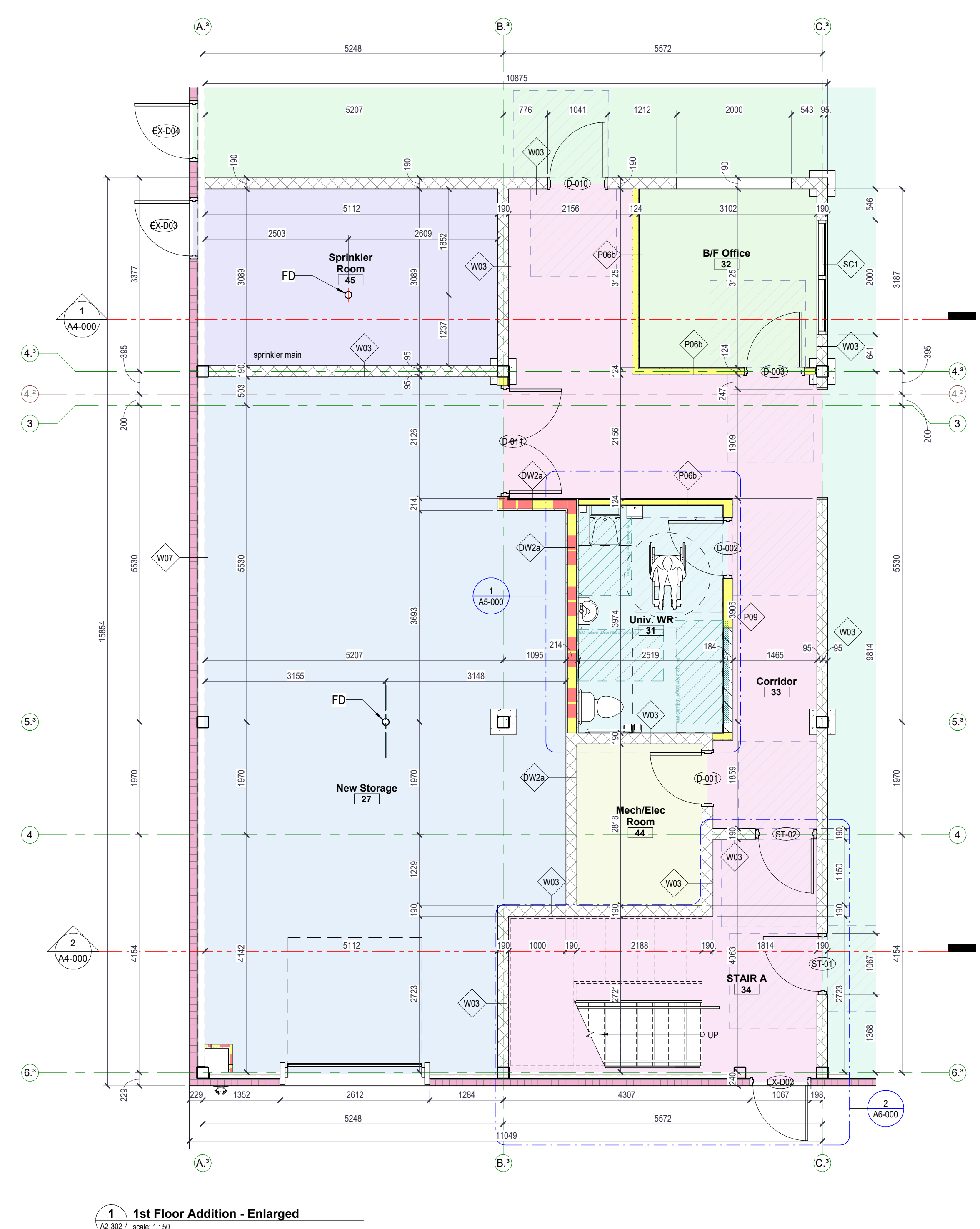
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Autodesk Docs://24-006 - NPC - WEGO Garage Niagara Falls/04-006 - NPC - WEGO Garage Niagara Falls_12-12-2024.rvt

Autodesk Docs/24-006 - NPC - WEGO Garage Niagara Falls/24-006 - NPC - WEGO Garage Niagara Falls_15-12-2024.rvt



Room Finish Schedule																
Number	Name	Base	Floor Material	Floor Finish	North Wall		East Wall		South Wall		West Wall		Ceiling Material	Ceiling Finish	Ceiling Height	Remarks
					Material	North Wall Finish	East Wall Material	East Wall Finish	South Wall Material	South Wall Finish	West Wall Material	West Wall Finish				
24	Bus Repair Garage Extension Bay 1	Concrete	Concrete	Exposed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Steel OWSJ	Exposed Structure	5876	
25	New Repair Garage Bay 2	Concrete	Concrete	Exposed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Steel OWSJ	Exposed Structure	5876	
26	New Mower Garage Bay 3	Concrete	Concrete	Exposed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Steel OWSJ	Exposed Structure	5876	
27	New Storage	Concrete	Concrete	Exposed	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	GWB	PNT1	2867	
28	Office A	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	2438	
31	Univ. WR	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	Concrete Block	PNT1	GWB	PNT1	SAT	N/A	2600	
32	B/F Office	Concrete	Concrete	Exposed	GWB	PNT1	Concrete Block	PNT1	GWB	PNT1	GWB	PNT1	GWB	N/A	2600	
33	Corridor	Concrete	Concrete	Exposed	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	GWB	PNT1	SAT	N/A	2600	
34	STAIR A	Concrete	Concrete	Exposed	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	GWB	PNT1	2438	
36	Office B	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	Glazing	Frosted	GWB	PNT1	2438	
37	W/R	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	SAT	N/A	2438	
38	PBX	Concrete	Concrete	Exposed	GWB	PNT1	Concrete Block	PNT1	GWB	PNT1	GWB	PNT1	Steel OWSJ	Exposed Structure	2438	
39	Meeting Room	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	2438	
40	Lunch Room	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	2438	
41	Lobby	Concrete	Concrete	Exposed	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	2438	
42	Existing Bus Repair Garage	Concrete	Concrete	Exposed	N/A	N/A	N/A	N/A	N/A	PNT1	N/A	N/A	Steel OWSJ	Exposed Structure	5876	
43	Mech. Room	Concrete	Concrete	Exposed	GWB	N/A	GWB	PNT1	GWB	PNT1	GWB	PNT1	GWB	PNT1	2438	
44	Mech/Elec Room	Concrete	Concrete	Exposed	Concrete Block	N/A	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	Concrete	Exposed Structure	2791	
45	Sprinkler Room	Concrete	Concrete	Exposed	Concrete Block	N/A	Concrete Block	PNT1	Concrete Block	PNT1	Concrete Block	PNT1	Concrete	Exposed Structure	2791	

ROOM FINISHES LEGEND				
MARK	NAME	MODEL	FINISH	LOCATION
FLOORING FINISHES				
PAINT FINISHES				
PNT1	BENJAMIN MOORE	WHITE DOVE	PM-19	Varies
CEILING FINISHES				
SAT	ARMSTRONG	CORTEGA	White	W/R & Corridor

Addendum #1
 Issued For Client Review
 Issued For Client Review
 Issued for Tender



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 E | mail@raimondosarchitects.com

CLIENT NAME
 Niagara Parks Commission

PROJECT NAME
 WEGO Garage Addition-Phase 1

PROJECT ADDRESS
 7805 Niagara River Pkwy, Niagara Falls, ON

SHEET NAME
 Enlarged Interior 1st & 2nd Floor Plans

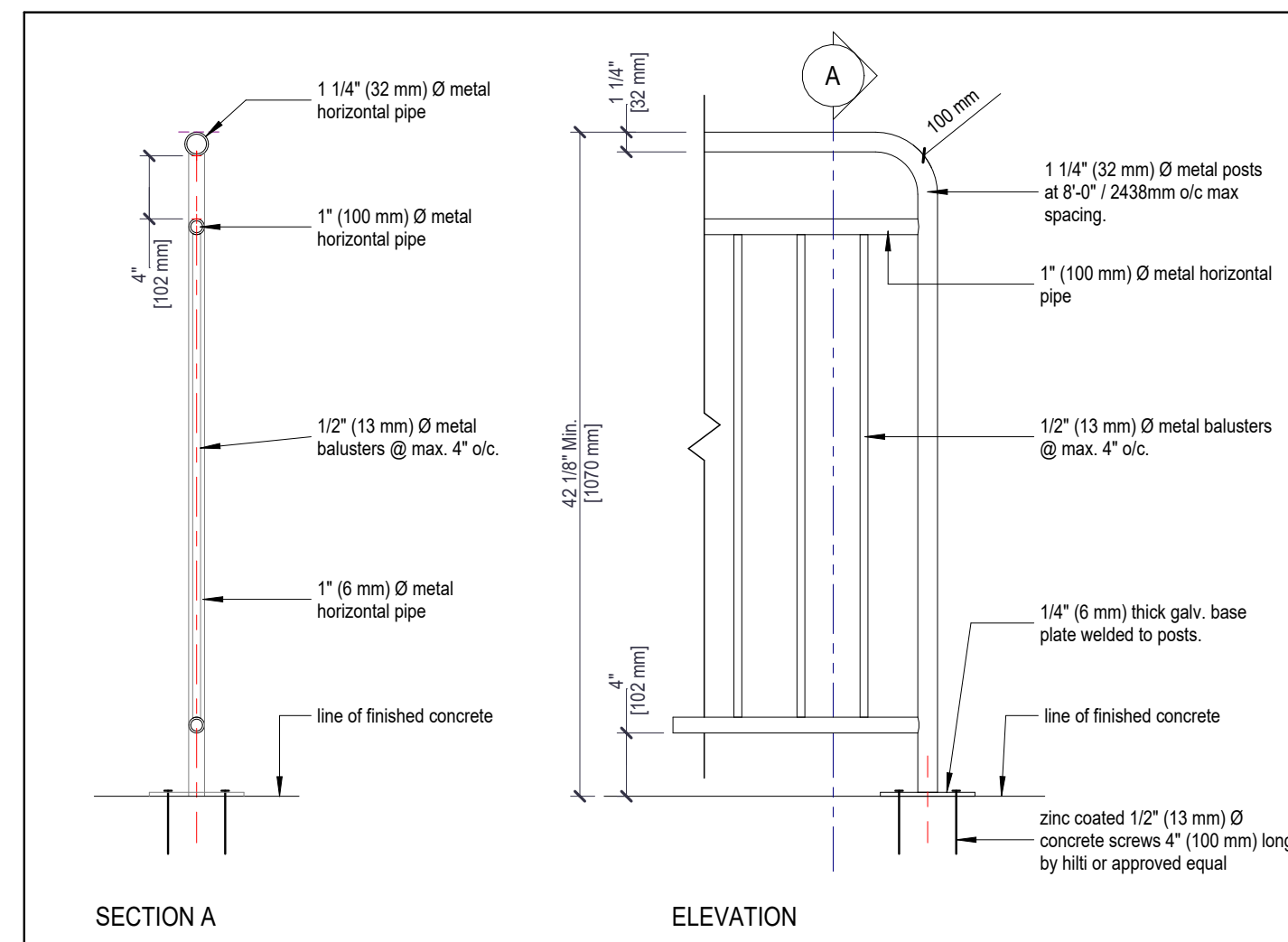
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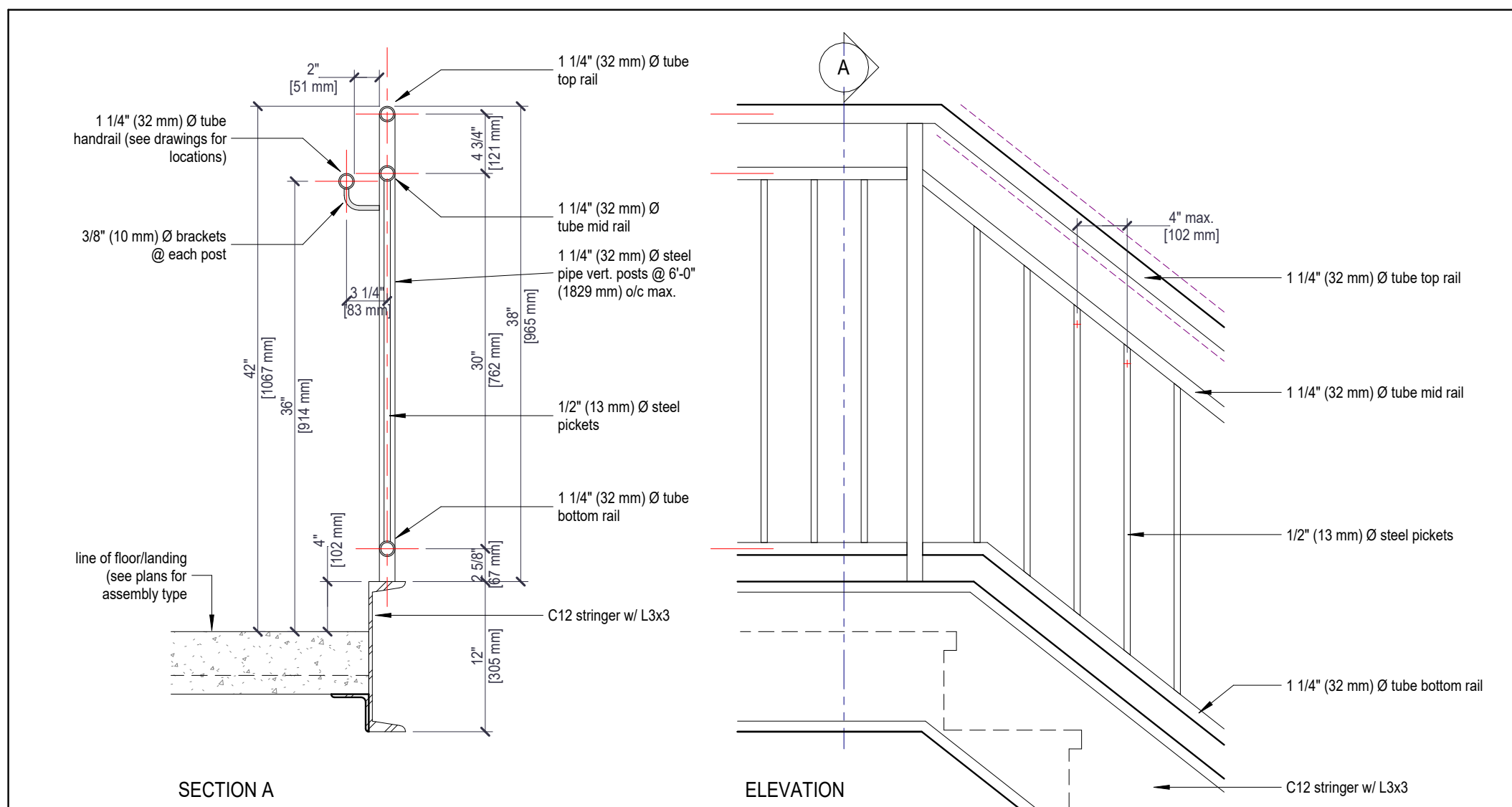
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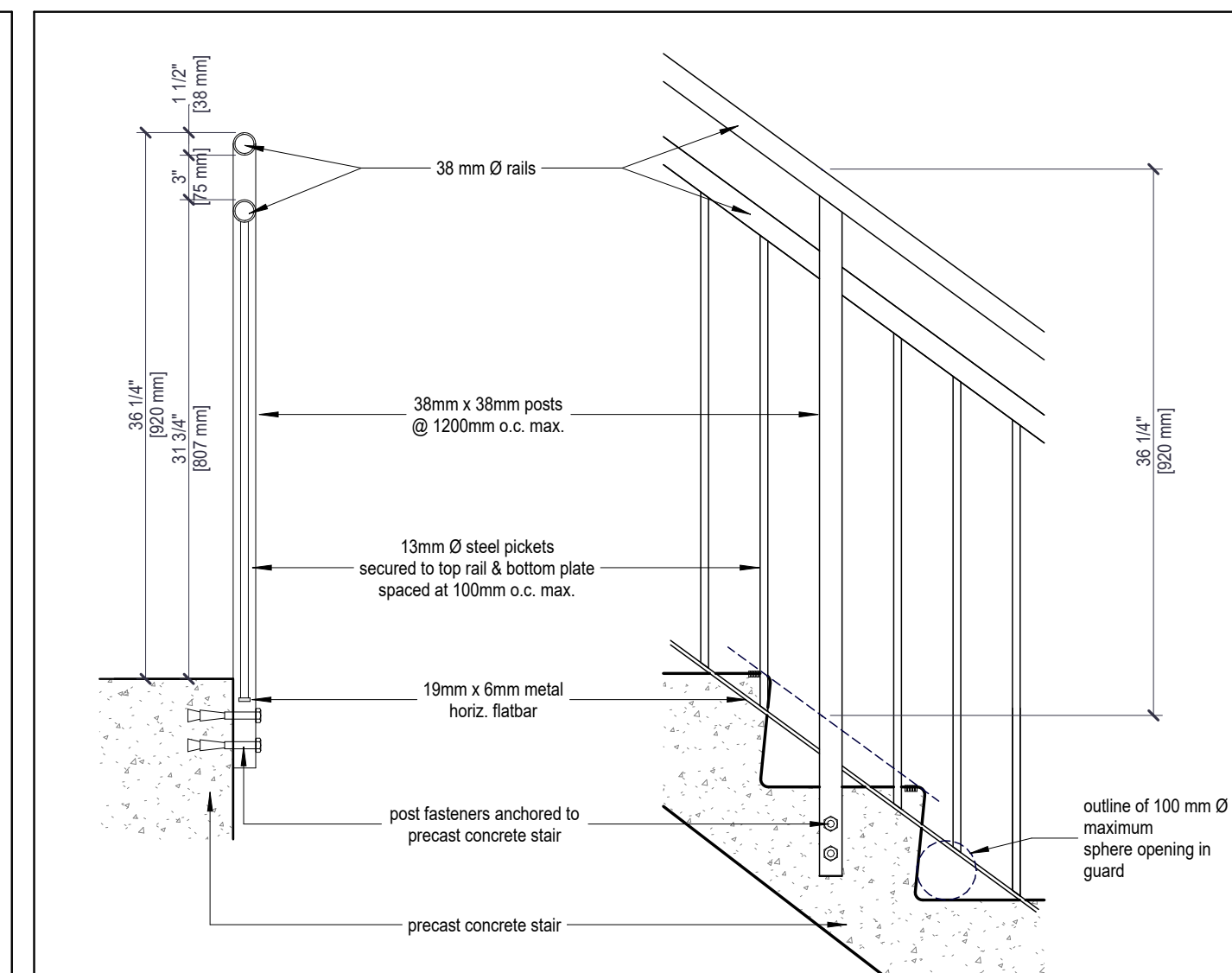
Note:
 1. All guards to be hot dipped galvanized with vinyl coating.
 2. Pressure relief holes to be drilled in bottom face of base and horizontals prior to galvanizing.
 3. Provide shop drawings stamped and signed by a professional engineer in the province of Ont.

TYPICAL EXTERIOR METAL GUARD DETAIL

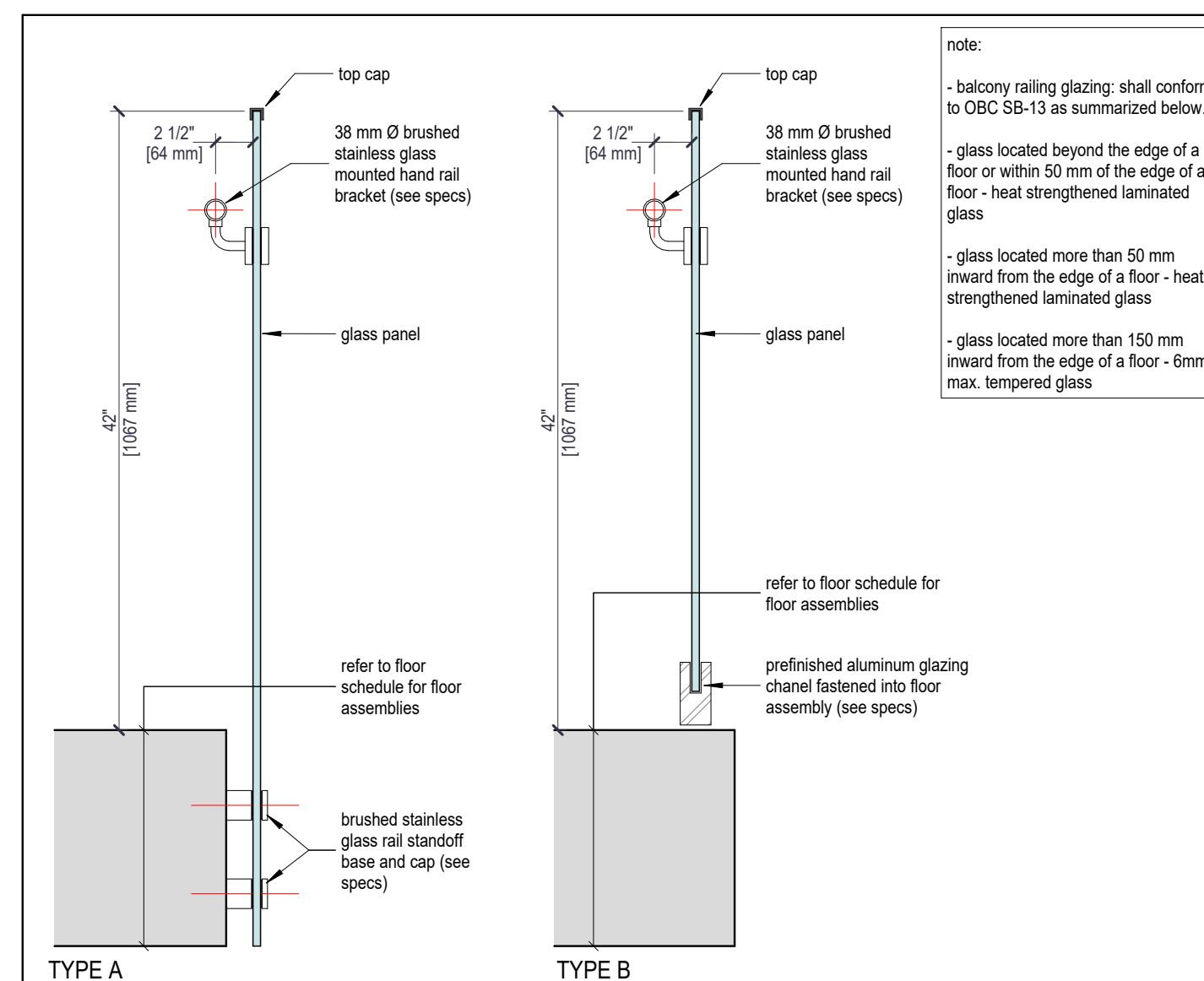
S-G1



TYPICAL ROUND RAIL HANDRAIL W/ METAL PICKETS

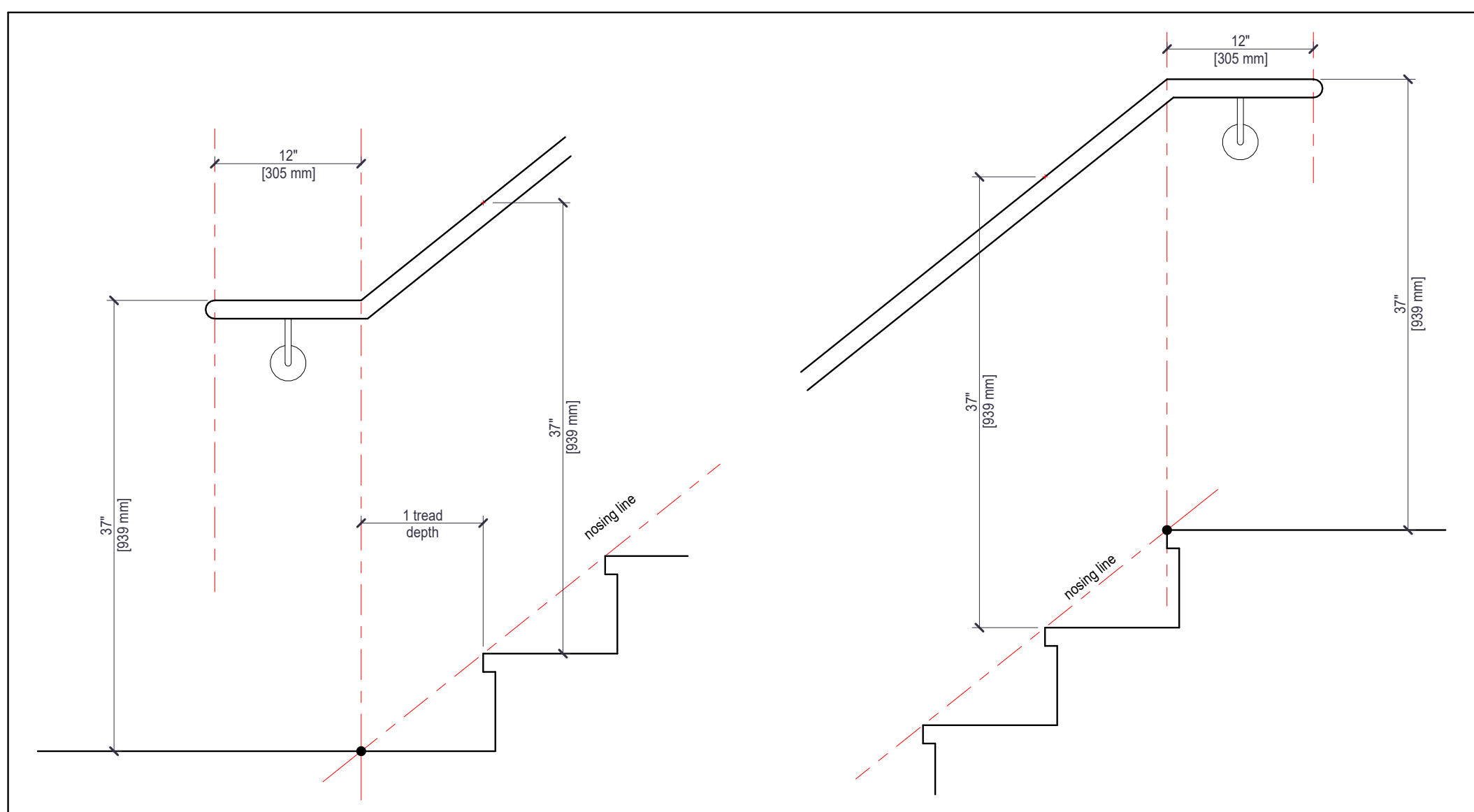


TYPICAL SIDE MOUNTED GUARDRAIL DETAIL

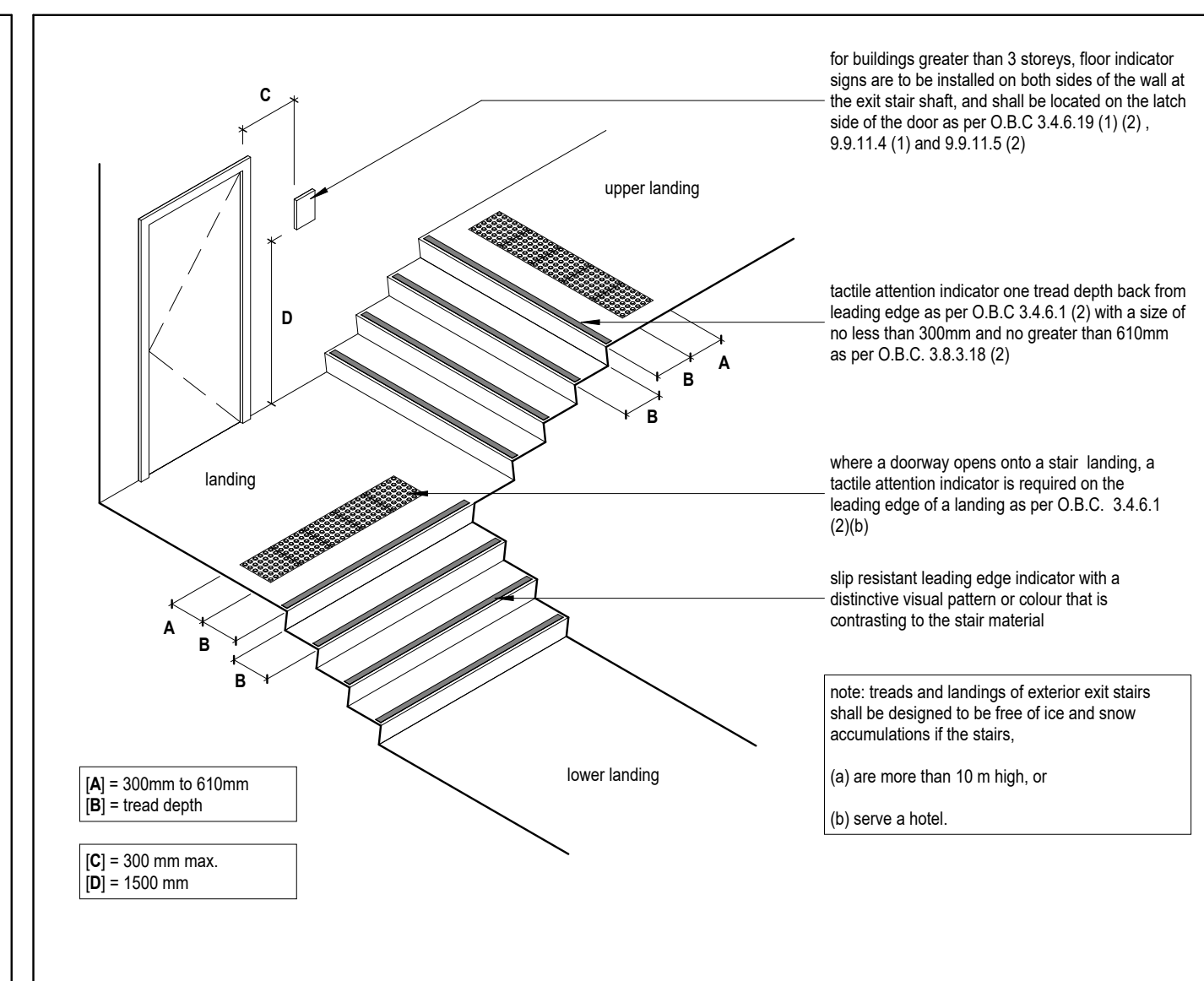


TYPICAL GLASS RAILING DETAIL

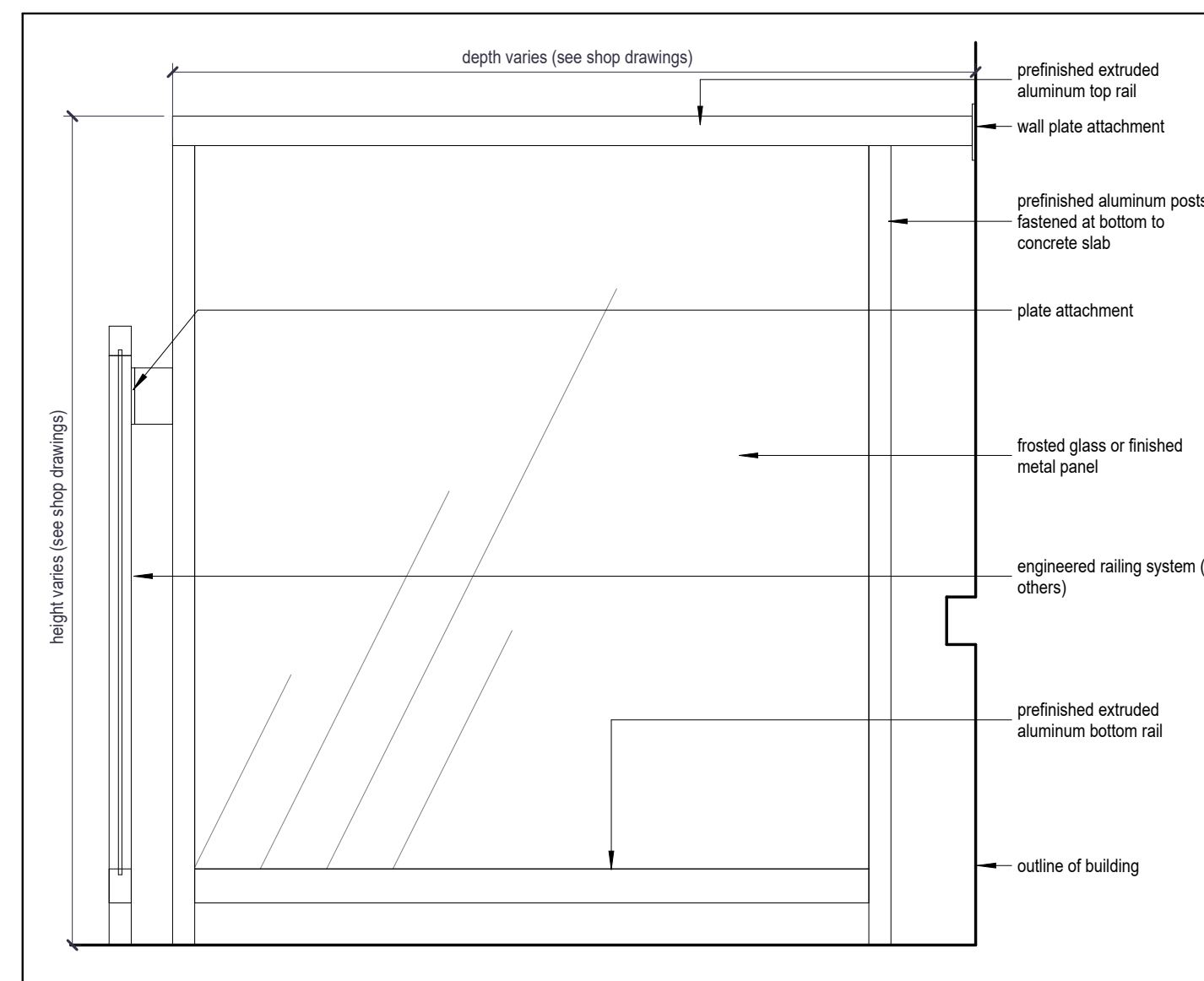
note:
 - balcony railing glazing shall conform to OBC SB-13 as summarized below.
 - glass located beyond the edge of a floor or within 50 mm of the edge of a floor - heat strengthened laminated glass
 - glass located more than 50 mm inward from the edge of a floor - heat strengthened laminated glass
 - glass located more than 150 mm inward from the edge of a floor - 6mm max. tempered glass



TYPICAL HANDRAIL TERMINATIONS

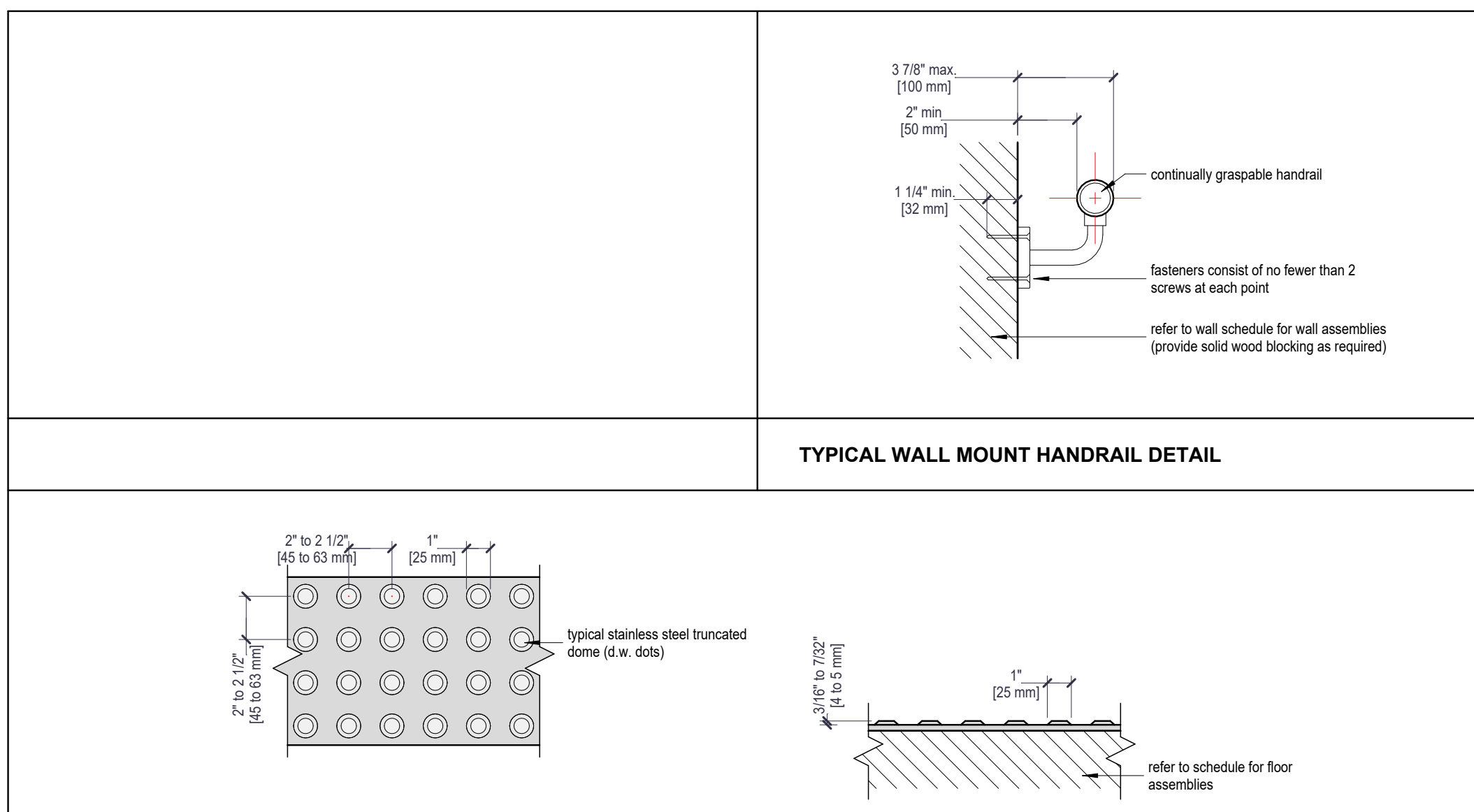


TYPICAL TACTILE STRIPS & FLOOR NUMBERING INDICATORS



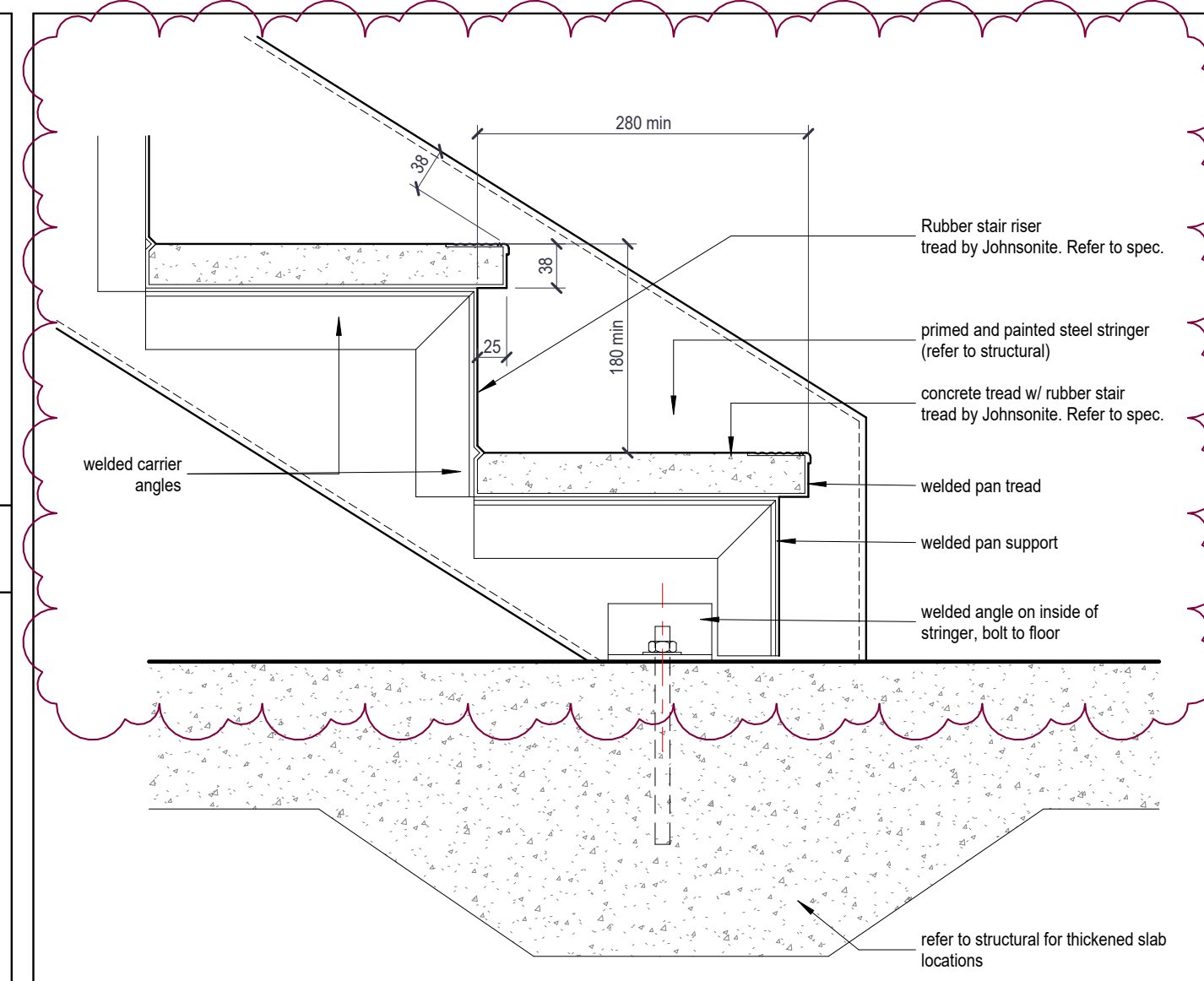
TYPICAL PRIVACY SCREEN DETAIL

S-P81



TYPICAL WALL MOUNT HANDRAIL DETAIL

TYPICAL TRUNCATED DOME DETECTABLE WARNING SURFACE



TYPICAL METAL STAIR W/ CONCRETE TREAD DETAIL

ADDENDUM #1
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2 Dec 23 2024
 A May 10, 2024
 B May 24, 2024
 C Dec 04, 2024



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CLIENT NAME
 Niagara Parks Commission

PROJECT NAME
 WEGO Garage Addition-
 Phase 1

PROJECT ADDRESS
 7805 Niagara River Pkwy, Niagara Falls, ON

SHEET NAME
 Typical Stair + Railing
 Details

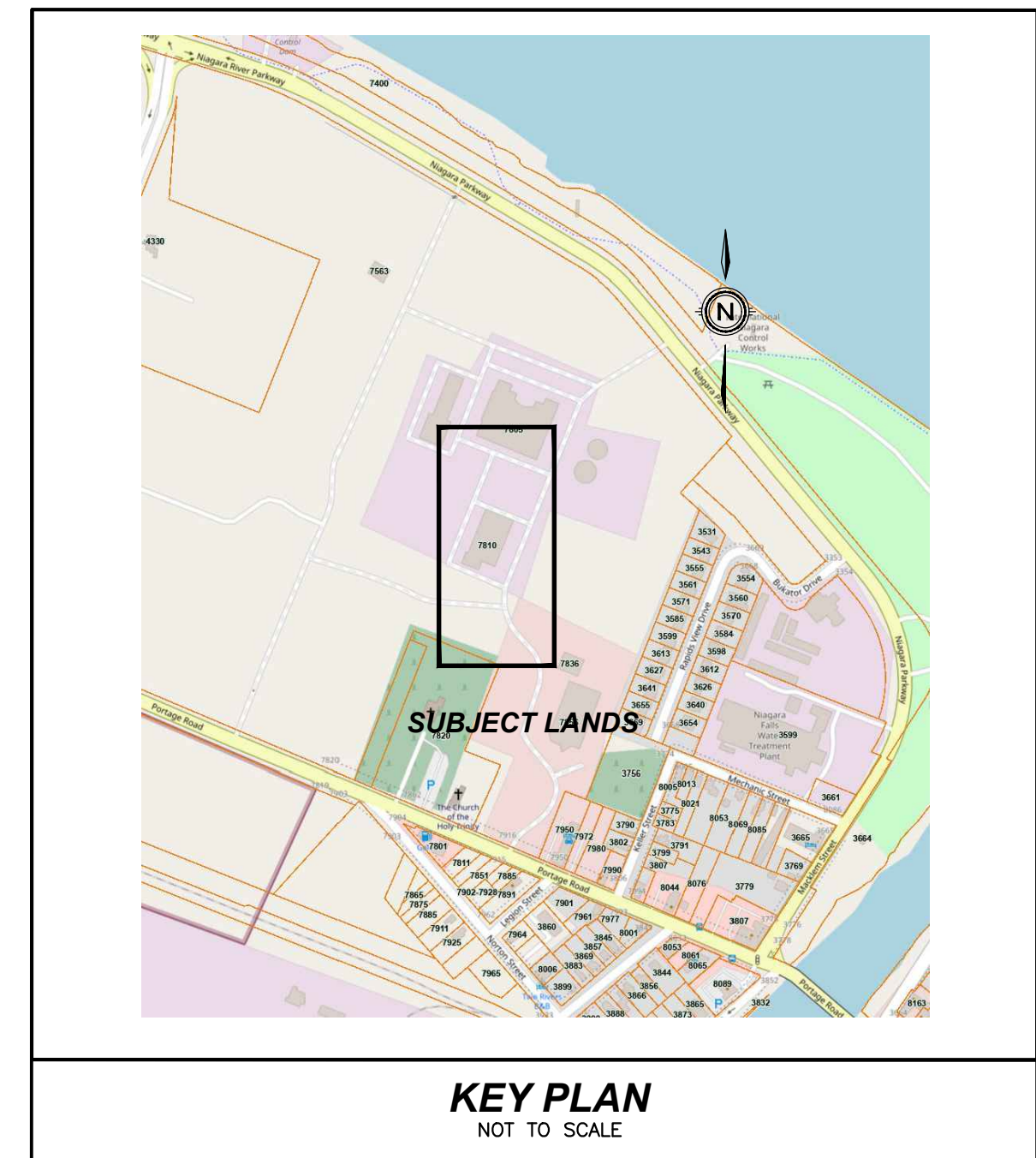
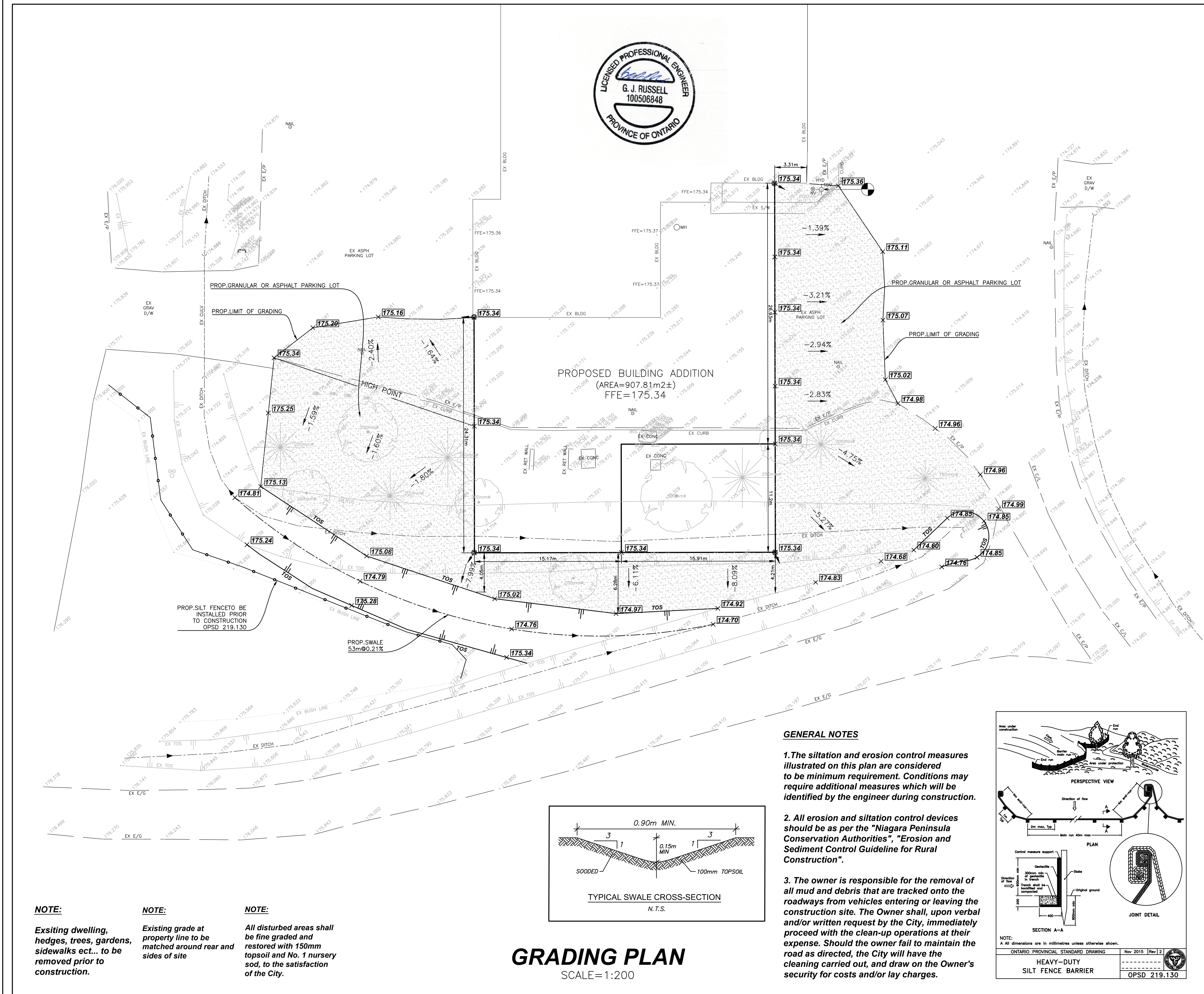
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SHEET #

A9-300

REV. #



CITY OR TOWN _____
ACCEPTED BY _____
DATE _____

CERTIFICATION OF EXISTING AND PROPOSED GRADES

I hereby certify that this proposed Lot Grading Plan satisfies the technical requirements for Niagara Parks drainage policy. The proposed grades shown are compatible with adjacent properties and this lot will drain satisfactorily and not adversely affect adjacent properties.

NAME: _____ SIGNATURE: _____
LIC#: _____ DATE: _____

LEGEND

• 174.05	—	EXISTING ELEVATION
100.00	—	PROPOSED APRON ELEVATION
x 100.00	—	PROPOSED ELEVATION
→	—	DIRECTION OF DRAINAGE FLOW
⊙	—	DOWNSPOUT DISCHARGE

AS CONSTRUCTED GRADING CERTIFICATION

I hereby certify that I have taken the finished grades shown, and that the grading of this lot generally conforms to the latest revision of the subdivision drainage plan for this subdivision, properties and this lot will drain satisfactorily and not adversely affect adjacent properties.

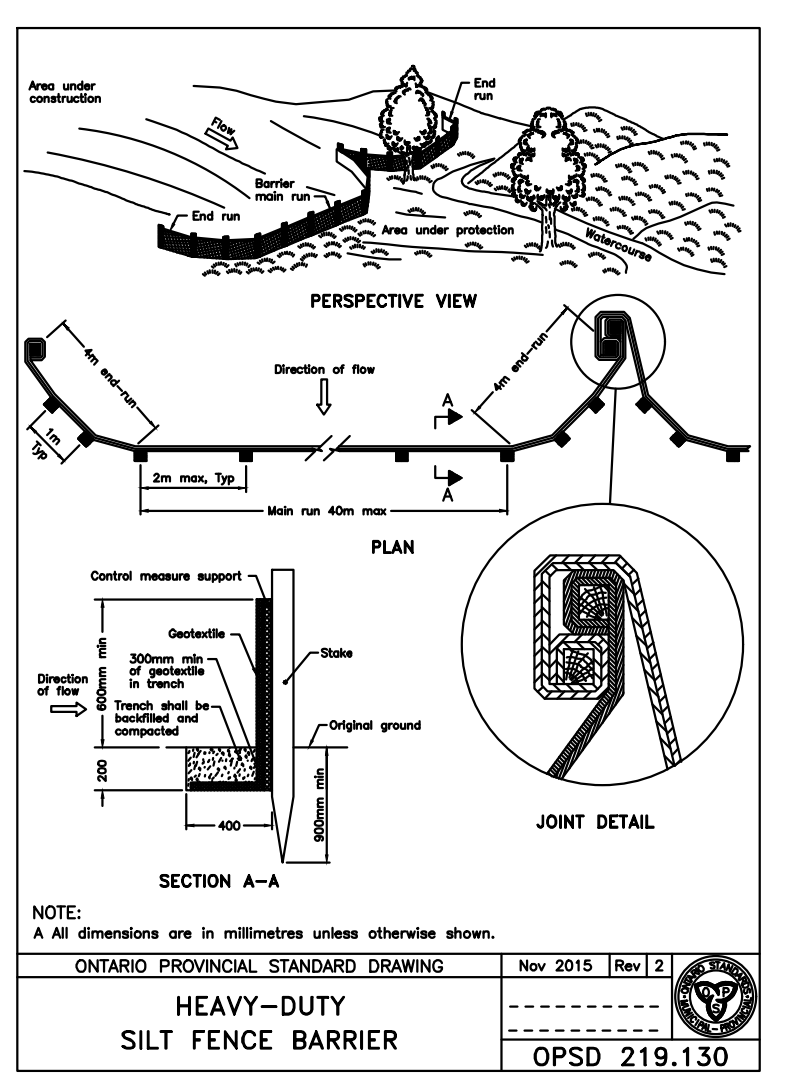
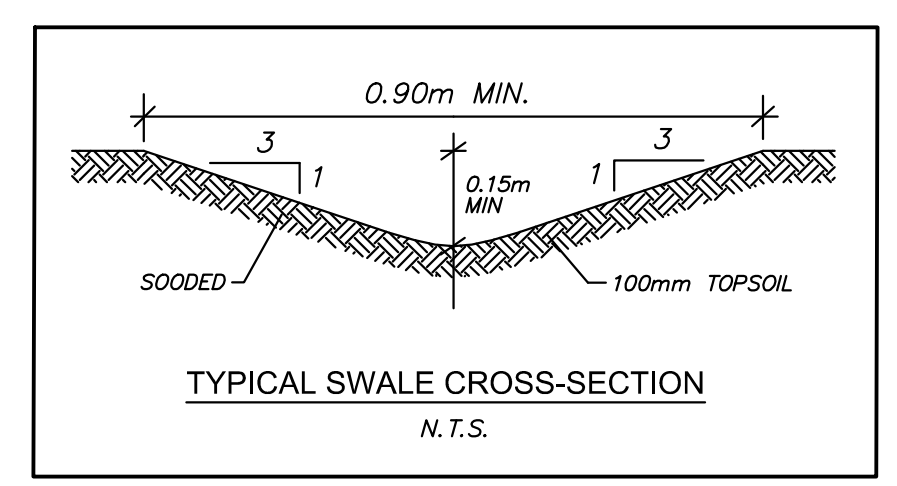
NAME: Garrett Russell SIGNATURE: Garrett Russell
LIC#: 100506848 DATE: Sept 26, 2024

TOTAL LOT AREA ±40307.90m²

DETAILED LOT AND GRADING PLAN

PLAN # WILLOUGHBY CON BFNR PT LOTS: 5 11 AND 15
ADDRESS: 7810 NIAGARA RIVER PKWY
HOUSE STYLE: Amusement park

- GENERAL NOTES**
- The siltation and erosion control measures illustrated on this plan are considered to be minimum requirement. Conditions may require additional measures which will be identified by the engineer during construction.
 - All erosion and siltation control devices should be as per the "Niagara Peninsula Conservation Authorities", "Erosion and Sediment Control Guideline for Rural Construction".
 - The owner is responsible for the removal of all mud and debris that are tracked onto the roadways from vehicles entering or leaving the construction site. The Owner shall, upon verbal and/or written request by the City, immediately proceed with the clean-up operations at their expense. Should the owner fail to maintain the road as directed, the City will have the cleaning carried out, and draw on the Owner's security for costs and/or lay charges.



- NOTE:** Existing dwelling, hedges, trees, gardens, sidewalks ect... to be removed prior to construction.
- NOTE:** Existing grade at property line to be matched around rear and sides of site
- NOTE:** All disturbed areas shall be fine graded and restored with 150mm topsoil and No. 1 nursery sod, to the satisfaction of the City.

#	REVISION	DATE	INIT
0	ISSUED FOR APPROVAL	2024-09-19	

NOTES:

- THE POSITION OF POLE LINES, CONDUITS, WATERMANS, SEWER, AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS AND, WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED BEFORE STARTING WORK. THE CONTRACTOR SHALL INFORM HIMSELF OF THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND SHALL ASSUME ALL LIABILITY FOR DAMAGE TO THEM.
- PROPERTY LINES WERE PLOTTED USING REGISTERED PLANS AND BARS LOCATED IN THE FIELD, TO VERIFY THE ACCURACY OF THESE PROPERTY LINES, A LEGAL SURVEY SHOULD BE PERFORMED PRIOR TO CONSTRUCTION.
- ALL CONSTRUCTION MUST COMPLY WITH THE NIAGARA PENINSULA STANDARD CONTRACT DOCUMENT.

DRAFTING
RG

DESIGN
RG

CHECKED BY
GR

APPROVED BY

NOTE:
BUILDER AND SURVEYOR TO VERIFY LOCATION OF ALL SERVICES AND UTILITIES PRIOR TO CONSTRUCTION.

SURVEYOR IS RESPONSIBLE FOR VERIFYING BUILDING LOCATION PRIOR TO LAYOUT OF BUILDING FOUNDATION

GRADING NOTES:

- ROOFWATER LEADERS ON THE PROPOSED DWELLING TO SPILL TO GRADE ON SPLASH PAD.
- SUMP PUMP OUTLET TO BE DIRECTED TO GRADE
- MAINTAIN EXISTING GRADING AND SURFACE DRAINAGE PATTERNS SO NOT TO IMPACT ADJUTING PROPERTIES
- MIN. 2% TO A MAX. 5% SLOPE FOR REGRADING PROPOSED APRON TO MATCH INTO EXISTING GRADE

RUSSELL TECHNICAL SERVICES

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7810 NIAGARA RIVER PKWY
WEGO BUS YARD
GRADING PLAN

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