

NINE YARDS STUDIO

63 Fitzroy Street
Charlottetown, PE
C1A 1R4
Tel: 566-4449 Fax: 566-1235
e-mail: info@9ystudio.com

TENDER ADDENDUM #4

Date: November 16, 2018
Project: PEI Museum and Heritage Eptek Center
Project #: 18038
Re: Tender Addendum #4

3 Page Addenda – 5 Attachments

This addendum forms part of the Contract Documents and is to be read, interpreted and coordinated with all other parts. The following items and prices shall be added to the tendered price for this project.

General

A-4-1 ***All trades are to review addendum in its entirety.***

Specification

- A-4-2 Section 00 21 13 – Instructions to Bidders
.1 Revise Para 1.3.2.4: Substantial performance of the project, with the exception of seasonal deficiencies, is to be completed by March 1, 2019.
- A-4-3 Section 01 91 31 – General Commissioning
.1 Delete section.
- A-4-4 Section 08 14 16 – Flush Wood Doors
.1 Para 2.2.1.4.1: factory paint to be a standard color.
- A-4-5 Section 08 71 00 – Door Hardware
.1 Para 2.3 – Delete para.
.2 Para 3.4.1 – Delete para.
- A-4-6 Add Section 09 21 16 – Gypsum Board Assemblies
.1 Refer to appended section.
- A-4-7 Add Section 09 30 13 – Ceramic Tiling
.1 Refer to appended section.
- A-4-8 Add Section 10 14 00 – Coat Racks
.1 Refer to appended section.
- A-4-9 Section 10 99 00 - Miscellaneous Specialties
.1 Delete section.

Drawings

- A-4-10 D201 – Demolition Plans and Elevations
.1 Detail 1 – Floor Plan Demolition
.1 Add the following to Coat Room Demolition:
.1 Remove existing fire extinguisher cabinet.
.2 Add the following to WR demolition:

- .1 Remove all wall finishes (tile and GB) back to studs.
- .2 Remove existing fence enclosure in its entirety.
- .3 Attached is a section through the existing vestibule. Once the existing floor tile has been removed, please remove the existing 50mm concrete over pour below, and the wood curbs embedded in concrete around the exterior perimeter of the vestibule. Once exposed, inspect the concrete slab(s) and investigate as to the cause of the cracking floor tiles in the vestibule. Once the cause of the problem has been determined, further detail will be given as to a solution.

A-4-11

A201 – New Plans and Details

- .1 Detail 1 – Floor Plan New
 - .1 Provide new 6'-0" high privacy fence enclosure complete with new 3'-0" wide gate around oil tank and AC unit. Fence panels to extend from the building face out to the columns and then between the two columns to square up the enclosure.
 - .2 Delete new entrance mat.
- .2 Detail 4 – Reflected Ceiling Plan
 - .1 Provide a new access hatch, one in each of the WR ceilings. Location to be coordinated on site with Owner.
- .3 Finish Schedule – WR 104
 - .1 Walls – Add CT
 - .2 Ceiling – Delete EXIST and replace with GB/PT
- .4 Door Schedule – Clarification
 - .1 Doors 104 and 105 are to be new doors and frames. Frames are to be solid wood (birch), double rabbet. Trims around doors to be 1"x3" solid wood (birch). Wood frames and trims to be painted.
- .5 Add new appended detail ASK-001 – Section at Vestibule Slab.

A-4-12

A301 – Exterior Elevations

- .1 Detail 1 – Front Elevation New
 - .1 Where existing signage board are being removed and new siding is to be installed, remove pieces of existing siding as required to allow new siding to properly stagger in with existing.
- .2 Detail 2 – Window Types
 - .1 Height of aluminum framing to adjust as required to allow for new concrete curb around vestibule perimeter.

A-4-13

M1 – Barrier Free Washroom

- .1 Clarification: Modification of sanitary piping is to include modifications of vent piping which is presently installed in walls being removed.
- .2 Clarification: Balancing to be performed on new exhaust fans being installed as part of this contract.
- .3 Contractor to modify existing sprinkler system in accordance with NBC and NFPA. Scope of work to include removal of existing branch piping in renovated area and reinstatement of new coordinated with modified spaces.
- .4 Acceptable Products: The following are considered as acceptable manufacturers of the items listed as specified. In each case it is the responsibility of the manufacturer's representative to select specific products that meet the specifications in all significant respects. Products offered will be subject for review and acceptance at the shop drawing stage. Contractors are to satisfy themselves that products offered meet the requirements and fit in the available space as no

extra charge will be considered if they are later found to be unsuitable.

Plumbing Fixtures	American Standard
Plumbing Trim	Chicago
Plumbing Supplied, Traps, Wastes	McGuire
Mixing Valve	Sloan
Domestic Water Piping	Uponor

A-4-14

E101 – Electrical Plans

- .1 Both washrooms are to be equipped with new occupancy sensor switch.
- .2 Relocate the switch for the closet such that it is outside the closet on the wall adjacent to the closet entrance.
- .3 Disconnect and remove three additional existing pot lights located in the soffit on the exterior of the building (plan south). Supply and install three new Type A fixtures in the same location and connect to existing circuits.

END

PART 1 - GENERAL

1.1 REFERENCES

- .1 American Society for Testing and Materials International, (ASTM)
 - .1 ASTM C 36/C 36M-01, Specification for Gypsum Wallboard.
 - .2 ASTM C 475-01, Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
 - .3 ASTM C 514-01, Specification for Nails for the Application of Gypsum Board.
 - .4 ASTM C 840-01, Specification for Application and Finishing of Gypsum Board.
 - .5 ASTM C 1002-01, Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
 - .6 ASTM C 1047-99, Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
 - .7 ASTM C 1280-99, Specification for Application of Gypsum Sheathing Board.
- .2 Association of the Wall and Ceilings Industries International (AWEI)
- .3 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S102-1988(R2000), Surface Burning Characteristics of Building Materials and Assemblies.

1.2 DELIVERY, STORAGE AND HANDLING

- .1 Deliver materials in original packages, containers or bundles bearing manufacturers brand name and identification.
- .2 Store materials inside, level, under cover. Keep dry. Protect from weather, other elements and damage from construction operations and other causes.
- .3 Handle gypsum boards to prevent damage to edges, ends or surfaces. Protect metal accessories and trim from being bent or damaged.

1.3 SITE ENVIRONMENTAL REQUIREMENTS

- .1 Maintain temperature minimum 10 degrees C, maximum 21 degrees C for 48 hours prior to and during application of gypsum boards and joint treatment, and for at least 48 hours after completion of joint treatment.
 - .2 Apply board and joint treatment to dry, frost free surfaces.
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- .3 Ventilation: Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

1.4 SAMPLES

- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate and recycle waste materials.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Standard board: to ASTM C 36/C 36M 16mm thick Type X, 1200mm wide x maximum practical length, ends square cut, edges bevelled.
 - .2 Abuse resistant gypsum panels: Standard 16mm thick, firecode core, 1200mm wide x maximum practical length, ends cut square, edges bevelled.
 - .3 Water resistant gypsum panels: Standard 16mm thick, firecode core when used in fire rated partition, 1200mm wide x maximum practical length, ends cut square, edges bevelled.
 - .4 Drywall furring channels: 0.5 mm core thickness galvanized steel channels for screw attachment of gypsum board.
 - .5 Nails: to ASTM C 514.
 - .6 Steel drill screws: to ASTM C 1002.
 - .7 Joint compound: to ASTM C 475, asbestos-free.
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PART 3 - EXECUTION

3.1 ERECTION

- .1 Do application and finishing of gypsum board in accordance with ASTM C 840 except where specified otherwise.
- .2 Do application of gypsum sheathing in accordance with ASTM C 1280.
- .3 Install work plumb to tolerance of 1:1200.

3.2 APPLICATION

- .1 Do not apply gypsum board until bucks, anchors, blocking, electrical and mechanical work are approved.
- .2 Apply single layer gypsum board to metal furring or metal framing using screw fasteners. Maximum spacing of screws 500mm on centre.
 - .1 Single-Layer Application:
 - .1 Apply gypsum board vertically or horizontally, providing sheet lengths that will minimize end joints.
- .3 Apply 300mm diameter bead of acoustic sealant continuously around periphery of each face of partitioning to seal gypsum board/structure junction where partitions abut fixed building components. Seal full perimeter of cut-outs around electrical boxes, ducts, in partitions where perimeter sealed with acoustic sealant.
- .4 Install gypsum board with face side out.
- .5 Do not install damaged or damp boards.
- .6 Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

3.3 INSTALLATION

- .1 Erect accessories straight, plumb or level, rigid and at proper plane. Use full length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Mitre and fit corners accurately, free from rough edges. Secure at 150 mm on centre using contact adhesive for full length.
 - .2 Install casing beads around perimeter of suspended ceilings.
 - .3 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated. Seal joints with sealant.
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- .4 Install access doors to electrical and mechanical fixtures specified in respective sections.
 - .1 Rigidly secure frames to furring or framing systems.
- .5 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape and taping compound installed according to manufacturer's directions and feathered out onto panel faces.
- .6 Gypsum Board Finish: finish gypsum board walls to following levels in accordance with Association of the Wall and Ceiling Industries (AWCI) International Recommended Specification on Levels of Gypsum Board Finish:
 - .1 Levels of finish:
 - .1 Embed tape for joints and interior angles in joint compound and apply three separate coats of joint compound over joints, angles, fastener heads and accessories; surfaces smooth and free of tool marks and ridges.
 - .2 Provide a level 4 smooth finish.
- .7 Finish corner beads, control joints and trim as required with two coats of joint compound and one coat of taping compound, feathered out onto panel faces.
- .8 Fill screw head depressions with joint and taping compounds to bring flush with adjacent surface of gypsum board so as to be invisible after surface finish is completed.
- .9 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .10 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.
- .11 Apply one coat of white primer sealer over surface to be textured. When dry apply textured finish in accordance with manufacturer's instructions.
- .12 Provide protection that ensures gypsum drywall work will remain without damage or deterioration at time of substantial completion.

PART 1 - GENERAL

1.1 RELATED SECTIONS

- .1 Section 07 92 00 - Joint Sealants.

1.2 REFERENCES

- .1 American National Standards Institute (ANSI)/Ceramic Tile Institute (CTI)
 - .1 ANSI A108.1-99, Specification for the Installation of Ceramic Tile (Includes ANSI A108.1A-C, 108.4-.13, A118.1-.10, ANSI A136.1).
 - .2 CTI A118.4-92, Specification for Latex Cement Mortar (included in ANSI A108.1).
 - .3 CTI A118.6-92, Specification for Ceramic Tile Grouts (included in ANSI A108.1).
- .2 American Society for Testing and Materials International (ASTM)
 - .1 ASTM C 144-04, Specification for Aggregate for Masonry Mortar.
 - .2 ASTM C 207-06, Specification for Hydrated Lime for Masonry Purposes.
 - .3 ASTM C 979-05, Specification for Pigments for Integrally Coloured Concrete.
- .3 Canadian General Standards Board (CGSB)
 - .1 CGSB 71-GP-22M-78(AMEND.), Adhesive, Organic, for Installation of Ceramic Wall Tile.
 - .2 CAN/CGSB-75.1-M88, Tile, Ceramic.
 - .3 CAN/CGSB-25.20-95, Surface Sealer for Floors.
- .4 Canadian Standards Association (CSA International)
 - .1 CAN/CSA-A3000-03(R2006), Cementitious Materials Compendium (Consists of A3001, A3002, A3003, A3004 and A3005).
- .5 Terrazzo Tile and Marble Association of Canada (TTMAC)
 - .1 Tile Specification Guide 09 30 00 2006/2007, Tile Installation Manual.
 - .2 Tile Maintenance Guide 2000.

1.3 SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittals.
 - .2 Provide product data in accordance with Section 01 33 00 - Submittals.
 - .1 Include manufacturer's information on:
 - .1 Ceramic tile, marked to show each type, size, and shape required.
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- .2 Chemical resistant mortar and grout (Epoxy and Furan).
 - .3 Cementitious backer unit.
 - .4 Dry-set cement mortar and grout.
 - .5 Divider strip.
 - .6 Elastomeric membrane and bond coat.
 - .7 Reinforcing tape.
 - .8 Levelling compound.
 - .9 Latex cement mortar and grout.
 - .10 Commercial cement grout.
 - .11 Organic adhesive.
 - .12 Waterproofing isolation membrane.
 - .13 Fasteners.
- .3 Provide samples in accordance with Section 01 33 00 - Submittals.
- .1 Base tile: submit duplicate, 1'-0" x 1'-0" sample panels of each colour, texture, size, and pattern of tile.
 - .2 Trim shapes, bullnose cap and cove including bullnose cap and base pieces at internal and external corners of vertical surfaces, each type, colour, and size.
 - .3 Adhere tile samples to 1/2" thick plywood and grout joints to represent project installation.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Packing, shipping, handling and unloading:
 - .1 Deliver, store and handle materials in accordance with Section 01 33 00 - Submittals.

1.5 AMBIENT CONDITIONS

- .1 Maintain air temperature and structural base temperature at ceramic tile installation area above 12 degrees C for 48 hours before, during, and 48 hours after, installation.
- .2 Do not install tiles at temperatures less than 12 degrees C or above 38 degrees C.

1.6 MAINTENANCE

- .1 Extra Materials:
 - .1 Provide maintenance materials in accordance with Section 01 33 00 - Submittals.
 - .2 Provide minimum 2% of each type and colour of tile required for project for maintenance use. Store where directed.
 - .3 Maintenance material same production run as installed material.
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PART 2 - PRODUCTS

2.1 FLOOR AND WALL TILE

- .1 Quarry Floor Tile (QT-1):
 - .1 Standard of Acceptance:
 - .1 Caesar Wide Collection, 300 x 600mm. Colour to be Wide Steel.
- .2 Ceramic Wall Tile (CT-1):
 - .1 Standard of Acceptance:
 - .1 Yukon Series, 100 x 400mm. Colour to be white, Matte finish.

2.2 BASE TILE

- .1 Base: Type, size, colour and texture to match adjacent flooring material.

2.3 MORTAR AND ADHESIVE MATERIALS

- .1 Cement: to CSA-A5, type 10.
- .2 Sand: to ASTM C 144, passing 16 mesh.
- .3 Latex additive: formulated for use in cement mortar and thin set bond coat.
- .4 Water: potable and free of minerals and chemicals which are detrimental to mortar and grout mixes.

2.4 BOND COAT

- .1 Dry set cement mortar: to ANSI A108.1.
- .2 Latex Cement mortar: to ANSI A108.1, two-component universal dry-set mortar.

2.5 GROUT

- .1 Colouring Pigments:
 - .1 Pure mineral pigments, limeproof and nonfading, complying with ASTM C 979.
 - .2 Colouring pigments to be added to grout by manufacturer.
 - .3 Job coloured grout are not acceptable.
 - .4 Use in Commercial Cement Grout, Dry-Set Grout, and Latex Cement Grout.
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- .2 Cement Grout: to ANSI A108.1.
 - .1 Use one part white cement to one part white sand passing a number 30 screen.
- .3 Commercial Cement Grout: to CTI A118.6.
- .4 Dry-Set Grout: to CTI A118.6.
- .5 Latex Cement Grout: to ANSI A108.1, fast curing, high early strength, polymer-modified, stain resistant, sanded mix for floors, unsanded mix for walls and floors with polished tiles commercial tile grout.
- .6 Colour: to be selected by Architect from Manufacturers' full range.
- .7 Standard of Acceptance:
 - .1 Ultraflex 3 as manufactured by MAPEI.
 - .2 Flextile 52 as manufactured Flextile Ltd.
 - .3 or approved equal.

2.6 ACCESSORIES

- .1 Transition Strips:
 - .1 As required.
- .2 Reducer Strips: purpose made metal extrusion; stainless steel type; maximum slope of 1:2.
- .3 Prefabricated Movement Joints: purpose made, having a Shore A Hardness not less than 60 and elasticity of plus or minus 40 percent when used in accordance to TTMAC Detail 301EJ.
- .4 Sealant: in accordance with Section 07 92 00 -Joint Sealants.
- .5 Protective coating: to CAN/CGSB-25.20, Type 1 to tile and grout manufacturers recommendations.
- .6 Non-coupling membrane: Schluter Ditra.

2.7 MIXES

- .1 Mix bond and levelling coats, and grout to manufacturer's instructions.
 - .2 Adjust water volumes to suit water content of sand.
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2.8 PATCHING AND LEVELLING COMPOUND

- .1 Cement base, acrylic polymer compound, manufactured specifically for resurfacing and leveling concrete floors. Products containing gypsum are not acceptable.
- .2 Have not less than the following physical properties:
 - .1 Compressive strength - 25 MPa.
 - .2 Tensile strength - 7 MPa.
 - .3 Flexural strength - 7 MPa.
 - .4 Density - 1.9.
- .3 Capable of being applied in layers up to 2" thick, being brought to feather edge, and being trowelled to smooth finish.
- .4 Ready for use in 48 hours after application.

2.9 CLEANING COMPOUNDS

- .1 Specifically designed for cleaning masonry and concrete and which will not prevent bond of subsequent tile setting materials including patching and leveling compounds and elastomeric waterproofing membrane and coat.
- .2 Materials containing acid or caustic material are not acceptable.

PART 3 - EXECUTION

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 WORKMANSHIP

- .1 Do tile work in accordance with TTMAC Tile Installation Manual 2006/2007, "Ceramic Tile", except where specified otherwise.
 - .2 Apply tile to clean and sound surfaces.
 - .3 Where tile is installed over plywood substrate, utilize an un-coupling membrane.
 - .4 Fit tile around corners, fitments, fixtures, drains and other built-in objects. Maintain uniform joint appearance. Cut edges smooth and even. Do not split tiles.
 - .5 Maximum surface tolerance 1:800.
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- .6 Make joints between tile uniform and approximately 1.5mm wide, plumb, straight, true, even and flush with adjacent tile. Ensure sheet layout not visible after installation. Align patterns.
- .7 Lay out tiles so perimeter tiles are minimum 1/2 size.
- .8 Sound tiles after setting and replace hollow-sounding units to obtain full bond.
- .9 Make internal angles square, external angles bullnosed.
- .10 Use bullnose edged tiles at termination of wall tile panels, except where panel abuts projecting surface or differing plane.
- .11 Install divider strips at junction of tile flooring and dissimilar materials.
- .12 Allow minimum 24 hours after installation of tiles, before grouting.
- .13 Clean installed tile surfaces after installation and grouting cured.
- .14 Make control joints at 4800mm in each direction. Make joint width same as tile joints. Fill control joints with sealant in accordance with Section 07 92 00 - Joint Sealants. Keep building expansion joints free of mortar and grout.

3.3 CLEANING

- .1 Proceed in accordance with Section 01 74 11 - Cleaning.

PART 1 - GENERAL

1.1 Shop Drawings

- .1 Submit shop drawings in accordance with Section 01 33 00 - Submittal Procedures.

1.2 Warranty

- .1 Installation of all materials to be guaranteed for a period of one year. This warranty covers both labour and material for replacement of defective materials. Warranty is extended to installation labour also.

PART 2 - PRODUCTS

2.1 Materials

- .1 Coat Racks (CR) with one shelf and one suspended 25mm hanger chrome bar with form fitting black plastic end caps, located as indicated on the drawings.
 - .1 Acceptable Product: Bayco - Executive Series coat and hat racks, Model B-10H by Architectural School Products Ltd. Provide twenty (20) Model CLCH hangers per rack.

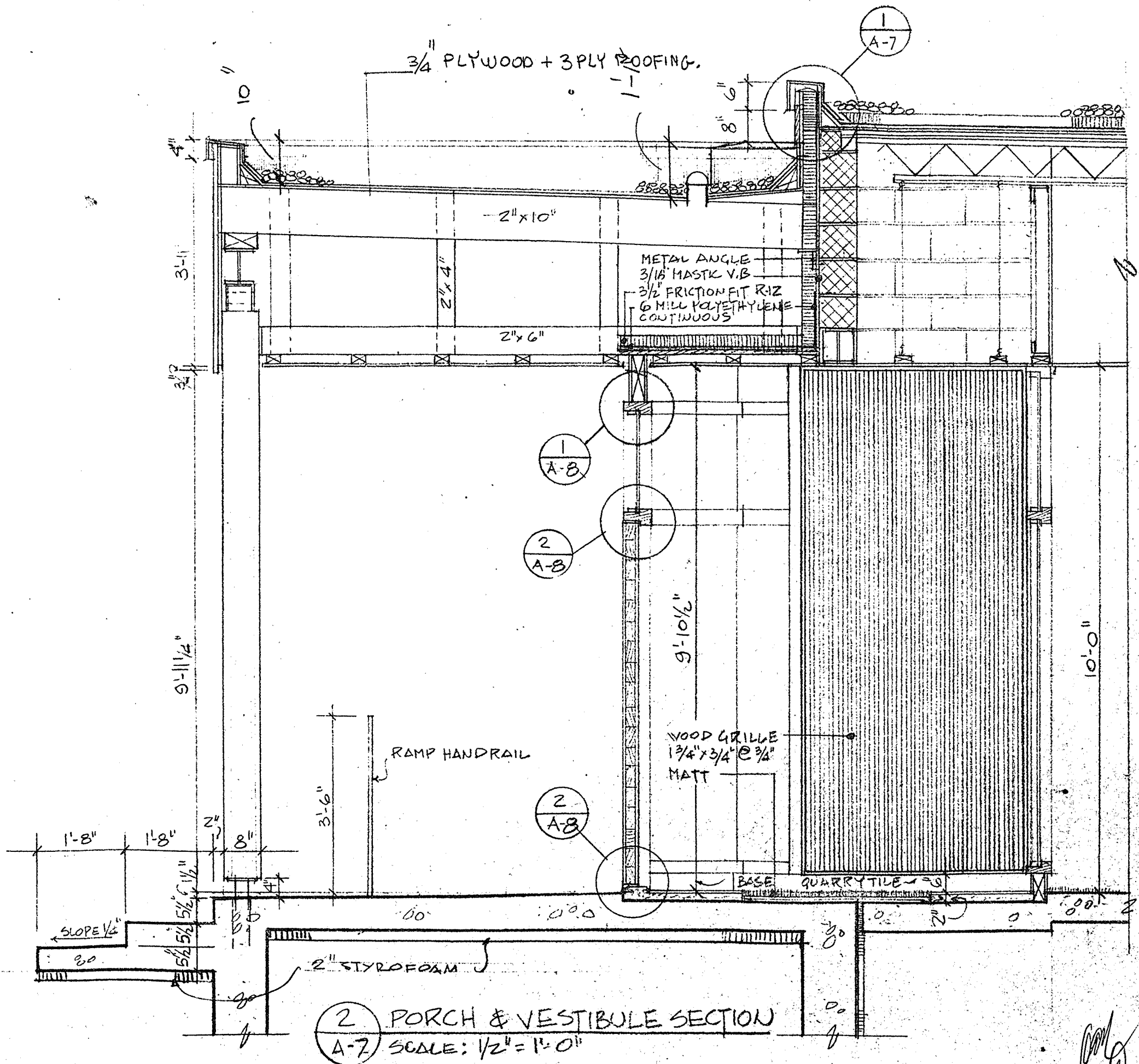
2.2 Execution

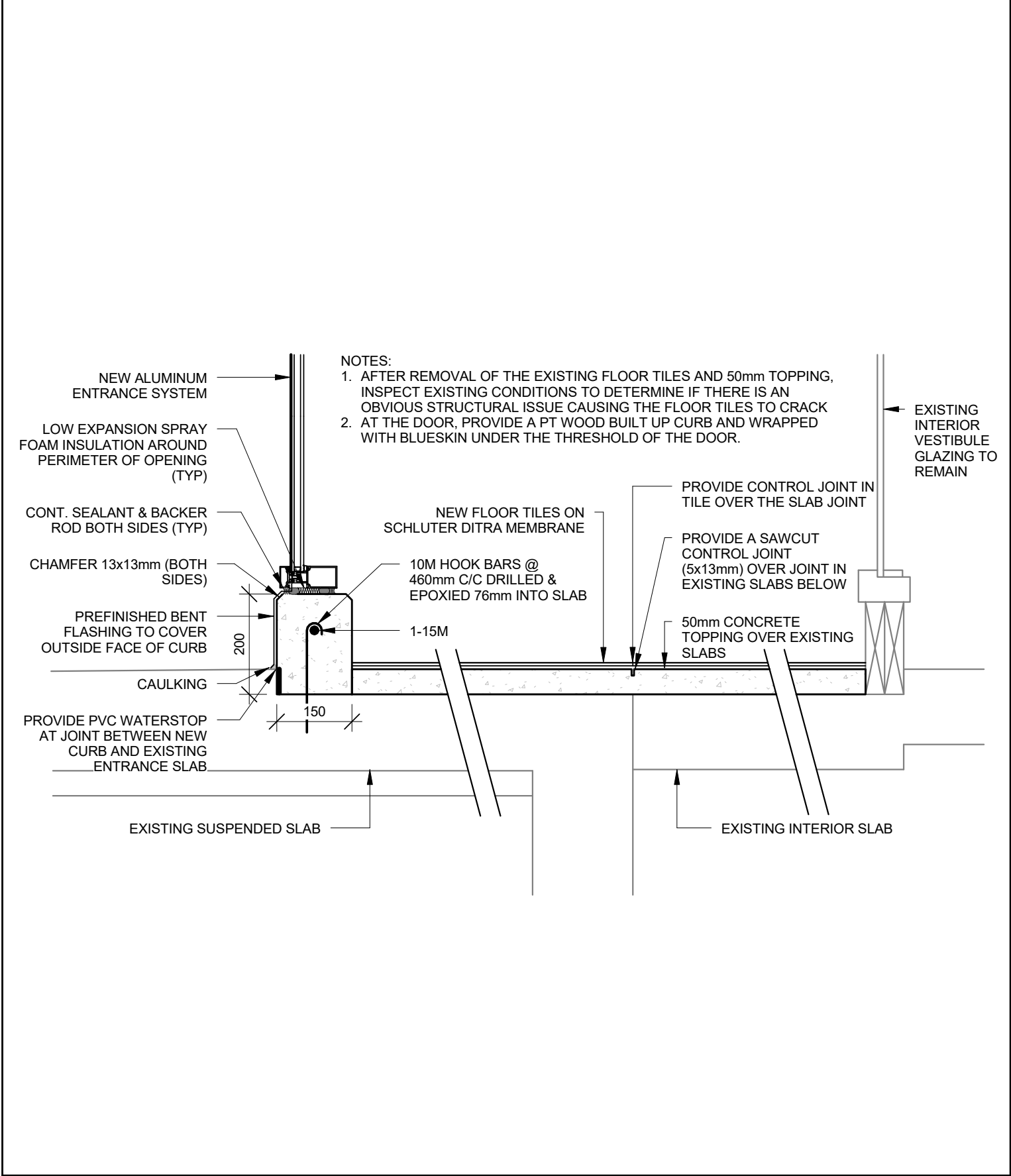
- .1 All racks to be installed strictly to manufacturer's recommendations.
 - .2 Prior to commencement of erection, all wall surfaces to be checked for irregularities, trueness, rigidity and projections. Defects to be reported immediately to the General Contractor for correction.
 - .3 Erection of materials shall be carried out in a substantial manner to ensure a rigid, straight, square, plumb and level assembly.
 - .4 Mounting heights to be determined by the Architect and indicated on the approved shop drawings.
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PART 3 - EXECUTION

3.1 NOT USED

.1 Not used.





ARCHITECT:

**NINE
YARDS**

PROJECT:

**PEI Museum and
Heritage Eptek
Centre**

DRAWING TITLE:

**Section at
Vestibule Slab**

DRAWN:

SM

DWG:

ASK-001

FILE NO:

18047