

1. GENERAL

- 1.1 This Addendum shall form an integral part and shall be read in conjunction with Specifications and Drawings. This Addendum shall take precedence over all requirements to the aforementioned specifications with which it may prove to be at variance.
- 1.2 Receipt of this Addendum shall be acknowledged on the Bid Form. Failure to do so may subject the Proponent to disqualification.
- 1.3 This Addendum Contains:
 - .1 Cover Page – Addendum No.6 – 1 page;
 - .2 Civil Addendum C2 dated March 28, 2018 – 1 page;
 - .3 Architectural Addendum A4 dated March 28, 2018 – 20 pages including 9 drawings;
 - .4 Structural Addendum S3 dated March 28, 2018 – 3 pages including 2 drawings;
 - .5 Mechanical Addendum M3 dated March 28, 2018 – 13 pages including 1 specification page (schedule), and 7 drawings;
 - .6 Electrical Addendum E-03 dated March 28, 2018 – 12 pages including 5 specification pages, 3 electrical sketches, and 1 drawing, and;
 - .7 Bidder's Questions & Responses dated March 28, 2018 – 13 pages.

END OF COVER PAGE

Civil Addendum C2

1. SPECIFICATIONS

1.1 Reference “Section 31 23 33 Excavating, Trenching, and Backfilling” (section not re-issued):

.1 Revise 3.8.1.3.1 from:

~~“Backfill under bearing surfaces, roadways and parking areas: Surge fill or Type 2 granular material placed in lifts compatible with compaction equipment (not to exceed 300 mm). Compact each lift to 100% maximum dry density to ASTM D698.”~~

to:

“Backfill under bearing surfaces, roadways and parking areas: Approved on-site soils, Surge fill, or Type 2 granular material placed in lifts compatible with compaction equipment (not to exceed 300 mm). Compact each lift to 100% maximum dry density to ASTM D698.”

END OF CIVIL ADDENDUM

Architectural Addendum A4

1. SPECIFICATIONS

1.1 Reference Section 00 31 00 “Information Available for Review”:

- .1 Add item 1.1.1.3: “Wetland Alteration Approvals”:
 - .1 Letter regarding “Approval for Construction and Operation Wetland Alteration. Approval No. 2017-103564, PID # 45275484” dated June 2, 2017 by Norma Bennett.
 - .2 Letter regarding “Terms and Conditions of Approval. Approval No. 2017-103564, PID # 45275484” dated June 8, 2017.

1.2 Reference Section 00 21 13 “Instruction to Bidders”:

- .1 Revise item 1.4.2.1.1 from:

“At or before 3:00:00 pm local time, as determined by the clock located in location for receiving bids on the ~~5th day of April, 2018.~~”

To

“At or before 3:00:00 pm local time, as determined by the clock located in location for receiving bids on the 12th day of April, 2018.”
- .2 Revise item 1.4.2.2 from:

“Any bid received after 3:00:00 pm local time on the ~~5th day of April, 2018,~~ will be declared a bid received after the *Bid Closing Time.*”

To

“Any bid received after 3:00:00 pm local time on the 12th day of April, 2018, will be declared a bid received after the *Bid Closing Time.*”
- .3 Revise sentence 1.8.4 from:

“Addenda will be issued no later than 4:30 pm, local time, on the ~~29th day of March, 2018,~~ subject to paragraph 1.8.6 of Section 00 21 13.

To:

“Addenda will be issued no later than 4:30 pm, local time, on the 4th day of April, 2018, subject to paragraph 1.8.6 of Section 00 21 13.

1.3 Reference Section 01 50 00 “Temporary Facilities and Controls”:

- .1 Revise item 1.18.1 from:

~~“Provide rodent control and other pest control programs during the Work in accordance with the requirements of authorities having jurisdiction.”~~

To

“Pests refer to animals, birds, and insects which can potentially do damage to the *Project* or *Products* from which it is constructed.
- .2 Add item 1.18.2: “The *Contractor* is responsible for pest control within the extent of the *Place of Work* and shall *Provide.*”

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- .3 Add item 1.18.2.1: "Reasonable housekeeping measures across the *Place of the Work* to discourage pests. This includes regular collection and removal of garbage and food waste from the *Place of Work*."
 - .4 Add item 1.18.2.2: "On-going cleaning, pest control and pest removal activities to prevent pest activity in the *Place of the Work*. This includes ongoing inspection for, and removal of, any pests and associated feces, carcasses and other matter."
 - .5 Add item 1.18.2.3: "Reasonable pest access control measures for the *Place of Work*."
 - .6 Add item 1.18.2.4: "On-going cleaning, pest control and pest removal activities with respect to storage containers, site offices, washroom facilities, or other spaces provided by the *Contractor* or *Subcontractors* during the course of the *Work*."
 - .7 Add item 1.18.2.5: "Verification that there is no evidence of pest activity in the *Place of Work* prior to turn-over to the *Owner*."
- 1.4 Reference Section 03 15 20 "Integral Crystalline Waterproofing – Hydrostatic Conditions":**
- .1 Add item 2.2.3.1.1.3: "XYPEX C-500 Admix."
 - .2 Add item 2.2.3.2.1.2: "Acceptable Product: XYPEX Concentrate DRYPAC."
 - .3 Revise item numbering sequence:
~~2.2.3.2.1: "Waterstop joint treatment."~~
To
2.2.3.2.2: "Waterstop joint treatment."
 - .4 Add item 2.2.3.2.2.2: "Acceptable Product: XYPEX Concentrate."
- 1.5 Reference Section 03 48 00 "Architectural Precast Concrete Fabrications":**
- .1 Delete item 1.2.1.1: "~~Independent inspection and testing company shall attend the pre-installation meeting.~~"
 - .2 Revise item 2.2.2 from:
~~"Finish on exposed surfaces of precast concrete shall be grey or white, to Consultant's selection, with smooth finish and as follows."~~
To
"Finish on exposed surfaces of precast concrete to *Consultant's* approval, with smooth finish and as follows:"
 - .3 Revise item 2.2.2.1 from:
~~"Colour and texture: CPCI finish code CPCI-149."~~
To
"Colour and texture: Canadian Precast/ Prestressed Concrete Institute (CPCI) finish code CPCI-149."
- 1.6 Reference Section 04 05 00 "Masonry Procedures":**
- .1 Delete item 1.2.1.1: "~~Independent inspection and testing company shall attend the pre-installation Meeting.~~"

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- .2 Revise item 3.10.1: After the word "Documents," delete the word "~~Provide~~" and replace with the words "coordinate installation of".

1.7 Reference Reference Section 04 05 19 "Masonry Reinforcement and Connectors":

- .1 Revise item 3.5.1: Before the word "lateral" delete the word "~~Install~~" and replace with the words "Coordinate installation of..."

1.8 Reference Section 05 12 00 "Structural Steel":

- .1 Revise item 3.5.2: Before the word "angle" delete the word "~~Provide~~" and replace with the words "Coordinate installation of".

1.9 Reference Section 05 50 00 "Metal Fabrications":

- .1 Add item 1.3.4.4: "Prepare shop drawings for stainless steel millwork countertops in conjunction with Section 06 40 00."
- .2 Add item 2.4.7: "Powder paint for aluminum: Tiger Drylac series 58/68 (epoxy TGIC free), to AAMA 2604-05, colour as selected by the *Consultant*."
- .3 Add item 3.2.8: "~~Provide~~ masonry lateral supports and anchorages in accordance with CAN/CSA A370-04 and as indicated on the structural drawings."
- .4 Add item 3.5: "Lateral Support and Anchorage"
- .5 Add item 3.5.1: "~~Provide~~ lateral support and anchorage in accordance with CAN/CSA A370-04 and as indicated on the structural drawings."

1.10 Reference Section 05 50 01 "Miscellaneous Metal Fabrication Schedule":

- .1 Add item 4.3 to Schedule: "Description: Perforated aluminum base at precast bench. Materials: ALUM. Applied finish – Primer: Anodized. Applied Finish - Top Coat: Not required. Notes: Reference details 2 and 3 on A331."
- .2 Add item 4.4 to Schedule: "Description: Stainless steel countertop at Storage Room 004. Materials: SST. Applied finish – Primer: Not required. Applied Finish - Top Coat: Not required. Notes: 14 gauge SST. Millwork item M004.1. Reference detail 23 on A902."

1.11 Reference Section 06 40 00 "Architectural Woodwork":

- .1 Add item 1.3.4.8: "Prepare shop drawings for stainless steel millwork countertops in conjunction with Section 05 50 00."
- .2 Revise item 2.3.1.1.1.1 from:
"Basis of design: Forbo Bulletin Board '~~2202-Black~~'."
To
"Basis of design: Forbo Bulletin Board '2182 Potato Skin.'"
.3 Remove item 2.6.1.1.2
~~.2 TSK2:~~
 - .1 ~~Basis of design: Forbo Bulletin Board '2187 Light Beige'.~~

1.12 Reference Section 06 40 13 "Exterior Architectural Woodwork":

- .1 Revise item 2.1.2 from "Cut: ~~quarter~~ sawn."

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To

"Cut: flat sawn."

- .2 Revise item 2.1.3 from:

~~"Kiln dried heartwood"~~

To

"Air dried: $\pm 12-15\%$ moisture content."

1.13 Reference Section 07 19 28 "Graffiti Protection Sealer":

- .1 Revise item 1.1.1.1: After the word "at" and before the word "precast" insert the word "exterior".

1.14 Reference Section 07 46 16 "Aluminum Panel Cladding System":

- .1 Revise item 1.1.1.4: After the word "lobby" insert the words "(MTL 1)".

1.15 Reference Section 07 46 19 "Metal Cladding Systems":

- .1 Revise item 2.4.1.2 from:

~~"Colour: custom metallic colour to later selection by Consultant."~~

To

"Colour: VicWest Metallic series 'Carbon 9740'.

1.16 Reference Section 07 46 23 "Wood Soffits":

- .1 Revise item 2.1.1.1: After the words "Standard 1" add the words "air dried".

1.17 Reference Section 07 54 19 "Polyvinyl-Chloride (PVC) Roofing":

- .1 Revise item 2.3.1.1.2.1 from:

~~"Colour: to later selection by Consultant."~~

To

"Colour: Sarnafil 'Lead Gray'.

- .2 Revise item 2.3.14 from:

"Decorative battens/~~décor~~ profile: extruded PVC battens in colour to match roofing membrane."

To

"Decorative battens profile: extruded PVC battens in colour to match roofing membrane."

- .3 Add item 2.3.14.2: "Basis of design: Sarnafil Decor Profile."

1.18 Reference Section 07 84 00 "Joint Firestopping and Smoke Seals":

- .1 Revise item 3.4.2.2 from:

~~"Inspection consultant to review installation of the work of this section and to perform random tests to verify its completion in accordance with the requirements of the Contract Documents."~~

To

"Review installation of the work of this section and to perform random tests to verify its completion in accordance with the requirements of the *Contract Documents*."

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- .2 Revise item 3.4.2.3 from:

"Give at least 48 hours' notice before operations commence, and arrange for a pre-job conference with *Contractor*, installer, ~~inspection and testing company~~, manufacturer, and *Consultant* present."

To

"Give at least 48 hours' notice before operations commence, and arrange for a pre-job conference with *Contractor*, installer, manufacturer, and *Consultant* present."

- .3 Delete item 3.4.2.4: "~~Inspection and testing company shall examine installed firestopping in accordance with ASTM E2393-10a. Inspection and testing company shall examine firestopping and shall determine, in general, that firestopping has been installed in accordance with requirements of the *Contract Documents* and in compliance with each listed firestop system design.~~"

- .4 Revise item 3.4.2.5 numbering sequence to 3.4.2.4.

1.19 Reference Section 08 44 00 "Aluminum Framed Glazing Systems":

- .1 Revise item 2.1.2: After the word "requirements," and before the word "provide" add the words "and with the exception of the aluminum skylight specified below,"

- .2 Add item 2.1.2.4: "Anotec Manufacturing Inc."

- .3 Revise item 2.2.4.1.4 from:

"Exterior doors (narrow stile) ~~glass-faced aluminum SSG~~; basis of design:

To

"Exterior doors (narrow stile); basis of design:

1.20 Reference Section 08 80 00 "Glass and Glazing":

- .1 Delete item 2.2.8:

~~.8 Back painted glass (GL-BP1):~~

- ~~.1 Tempered, low iron glass meeting requirements of ASTM C1048-12e1, kind HS, kind FT coated and uncoated, 6 mm (1/4") thick, minimum, coating on No. 2 surface, 'MagiCoat Water Based Coating', by Imagic Glass.~~

~~.1 Colours; locations as indicated or scheduled:~~

~~.1 #933.~~

~~.2 #934.~~

~~.2 Low iron glass acceptable Products:~~

~~.1 AGC 'Krystal Klear'.~~

~~.2 Guardian 'Ultraclear'.~~

~~.3 Pilkington 'Opti-White'.~~

~~.4 PPG 'Starphire'.~~

~~.5 Saint-Gobain 'Diamente'.~~

~~.3 Acceptable manufacturers:~~

~~.1 Central Canadian Glass.~~

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~~2 CLO Glass.~~

~~3 Camden Glass.~~

1.21 Reference Section 09 29 00 “Gypsum and Cement Board”:

- .1 Insert new item 2.3.1.2.2.6: “Cabot ‘Type X Light Core Gypsum Board’.”
- .2 Add item 2.3.2.4.6: “Cabot ‘Protec M+M+AR’.”
- .3 Add item 2.3.7.2.5: “Cabot ‘BlueGlass Sheathing’.”
- .4 Revise item 2.9.5.1.3 numbering sequence to 2.9.5.1.4.
- .5 Add item 2.9.5.1.3: “Owens Corning ‘EcoTouch QuietZone’.”
- .6 Add item 2.10.2: “Standard Access Doors”
- .7 Add item 2.10.2.1: “Access doors: in accordance with Divisions 21, 22, and 23 and Divisions 26, 27, and 28.”
- .8 Revise item 3.14 numbering sequence to 3.15.
- .9 Add item 3.14: “Standard Access Doors”
- .10 Add item 3.14.1: “Install access doors to mechanical and electrical fixtures specified in respective sections of Divisions 21, 22, and 23 and Divisions 26, 27, and 28.”
- .11 Add item 3.14.2: “Access doors shall be as supplied by Divisions 21, 22, and 23 and Divisions 26, 27, and 28. Locations to be reviewed and confirmed by *Consultant*.”
- .12 Add item 3.14.3: “Install access panels in locations to be determined by coordination with trades installing mechanical, electrical and other building services and consultation with *Consultant*.”
- .13 Add item 3.14.4: “Rigidly secure frames to furring or framing systems.”

1.22 Reference Section 09 31 00 “Tiling”:

- .1 Add item 2.3.6.2: “Acceptable Product Kiesel Servoplan Ki 1 Self Levelling Compound.”
- .2 Add item 2.3.7.2: “Acceptable Product Kiesel Servolight thin Set Mortar.”
- .3 Add item 2.3.8.2: “Acceptable Product Kiesel Trio Super Tec Thin & Medium Bed Mortar.”
- .4 Add item 2.3.9.2: “Acceptable Product Kiesel Trio Super Tec Thin & Medium Bed Mortar.”
- .5 Add item 2.3.10.2: “Acceptable Product Kiesel Royal Epoxy Grout.”
- .6 Add item 2.4.2.3.4: “Kiesel DMS 1KPlus Waterproofing Membrane with Ditchband Sealing Strips.”
- .7 Add item 2.5.3.5.4: “Kiesel Silicone Caulking.”

1.23 Reference Section 09 67 00 “Fluid-Applied Floor and Wall Coatings”:

- .1 Revise Section title from:
“Fluid-Applied Floor and Wall Coatings”
To:
“Fluid-Applied Floor Coatings “
- .2 Revise item 1.3.1.2.1: “Work of this section, executed by competent applicators with ~~minimum 5~~
~~years~~ experience in application of Products and systems specified and with approval and training of Product manufacturers.”

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- .3 Delete item 1.3.1.2.2: "Installation crews shall be highly skilled in the application of specified coatings with at least 10 years experience in the installation of coatings specified herein."
- .4 Revise item 1.3.1.2.3 numbering sequence to 1.3.1.2.2.
- .5 Revise item 1.3.1.2.4 numbering sequence to 1.3.1.2.3.
- .6 Delete item 1.6.5.1.4: "Testing shall be by independent inspection and testing company and in accordance with Section 01 45 00."

1.24 Reference Section 09 78 13 "Metal Interior Panelling":

- .1 Revise item 1.1.1.1: After the word "MWP1" add the words ", MWP2, MWP3 & MWP4".
- .2 Add item 2.1.2: "Aluminum panels; aluminum flat sheet; solid type."
- .3 Add item 2.1.2.1: "Aluminum flat sheet: Aluminum flat sheet to ASTM B209-14, 3.2mm (0.125") thick panels in the following alloy:"
- .4 Add item 2.1.2.1.1: "Painting quality: 3003-H14 or 3105-H14 to ANSI H35.1/H35.1M-2013."
- .5 Add item 2.1.2.1: "Factory Finish:"
- .6 Add item 2.1.2.1.1: "70% Kynar 500 or Hylar 5000 fluoropolymer resin systems, ceramic pigments and other select inorganic pigments to AAMA 2605-13."
- .7 Add item 2.1.2.1.1.1: "Acceptable Products:"
- .8 Add item 2.1.2.1.1.1.1: "PPG 'Duranar XL'."
- .9 Add item 2.1.2.1.1.1.2: "Valspar 'Fluorpon Classic II'."
- .10 Add item 2.1.2.1.1.1.3: "Acrogard-UVX."
- .11 Add item 2.1.2.1.1.2: "Colour: White."

1.25 Reference Section 11 70 00 "Patient Lift":

- .1 Revise item 2.1.1.1 from:
"BHM Medical 'Fixed Ceiling Lift V4'."
To:
"Arjo Maxi Sky 600 by Arjo Hunleigh."

1.26 Reference Section 12 24 13 "Roller Window Shades":

- .1 Revise item 2.6.1.1.1 from:
"Solarfective 'Solarblock'"
To
"Altex Sunproject Tek Screen 9103, 9101, 9105 series by Phifer; with openness and colour later chosen by consultant from full colour range."
- .2 Revise item 2.6.2.1.1 from:
"Solarfective 'Solarstop'."
To
"Altex Sunproject Tek Screen 9103, 9101, 9105 series by Phifer; with openness and colour later chosen by consultant from full colour range."

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1.27 Reference Section 13 14 47 "Pool Accessories Schedule":

- .1 Revise items of "Product" column of "Leisure Pool Toys Schedule" to:
 - .1 Revise ~~"Belle Tower OmniFlow Rate 30 GPM @ 12' TDH"~~
To
"Belle Tower OmniFlow Rate 30 GPM @ 12' TDH, or, Vortex VOR-7530 Aqua Dome No. 2"
 - .2 Revise ~~"Sheet Flo Curtain OmniFlow Rate 36.5 GPM @ 12' TDH"~~
To
"Sheet Flo Curtain OmniFlow Rate 36.5 GPM @ 12' TDH, or, Vortex VOR-1108 Waterfall"
 - .3 Revise ~~"Mini Foam Geyser FeatureFlow Rate 14.5-31 GPM @ 5' TDH"~~
To
"Mini Foam Geyser FeatureFlow Rate 14.5-31 GPM @ 5' TDH, or, Popcorn Jet = Vortex VOR-7513 Fountain Spray"
 - .4 Revise ~~"Slant Finger Jet OmniFlow Rate 4.8-9.5 GPM @ 3' TDH"~~
To
"Slant Finger Jet OmniFlow Rate 4.8-9.5 GPM @ 3' TDH, or, Slant Finger Jet = Vortex VOR-0305 Directional Jet No. 1"
 - .5 Revise ~~"Slant JetFlow Rate 3.8 GPM @ 3' TDH"~~
To
"Slant JetFlow Rate 3.8 GPM @ 3' TDH, or, Slant Jet = Vortex VOR-7516"
 - .6 Revise ~~"OMNIPOD Feature Adapter"~~
To
"OMNIPOD Feature Adapter, or, integrated adapters for Vortex products"

2. DRAWINGS

2.1 Reference drawing A010 NOTES & TYPICAL DETAILS

- .1 Revise "INTERIOR GYPSUM AND CEMENT BOARD PARTITION WALL TYPES" PG3A - DESCRIPTION note:
~~"...89mm ACOUSTIC FIREBATT (INS-60)..."~~
To:
"...89mm Acoustic Insulation (INS-60)..."

2.2 Reference drawing A101 "FLOOR PLANS":

- .1 Drawing A101 "FLOOR PLANS", dated 2018-03-28 "Issued for Addendum No.6 to replace and supersede drawing A101 "FLOOR PLANS", dated 2018-03-23 "Issued for Addendum No.5". Changes include but are not limited to:
 - .1 Detail 1/A101: ADD Surge Tank dimensions.
 - .2 Detail 2/A101: DELETE annotation note in "MECHANICAL AREA": ~~"200W x 500H CONCRETE CONTAINMENT CURB"~~

2.3 Reference drawing A301 "BUILDING CROSS-SECTIONS":

- .1 Drawing A301 "BUILDING CROSS-SECTIONS", dated 2018-03-28 "Issued for Addendum No.6 to replace and supersede drawing A301 "BUILDING CROSS-SECTIONS", dated 2018-03-01 "Issued for Tender". Changes include but are not limited to:

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- .1 Detail 1/A501: REMOVE RWS-1X.

2.4 Reference drawing A315 “WALL SECTIONS - ENVELOPE” (drawing not re-issued):

- .1 Detail 4/A315: REMOVE RWS-1X from section.

2.5 Reference drawing A330 “SECTION DETAILS -EXTERIOR”:

- .1 Drawing A330 “SECTION DETAILS -EXTERIOR”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A330 “SECTION DETAILS -EXTERIOR”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:

- .1 Detail 5/A330: REMOVE ROLLER SHADE and EXTEND MLT1, substrate and framing to face of curtainwall head.

2.6 Reference drawing A500 “INTERIOR ELEVATIONS”:

- .1 Drawing A500 “INTERIOR ELEVATIONS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A500 “INTERIOR ELEVATIONS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:

- .1 Detail 9/A500: ADD TV / Mount.
 - .2 Detail 12/A500: ADD TV / Mount.

2.7 Reference drawing A501 “INTERIOR ELEVATIONS”:

- .1 Drawing A501 “INTERIOR ELEVATIONS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A501 “INTERIOR ELEVATIONS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:

- .1 Detail 1/A501: REMOVE RWS-1X.

2.8 Reference drawing A600 “INTERIOR STAIR PLANS, SECTIONS AND DETAILS”:

- .1 Drawing A600 “INTERIOR STAIR PLANS, SECTIONS AND DETAILS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A600 “INTERIOR STAIR PLANS, SECTIONS AND DETAILS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:

- .1 Detail 3/A600: REVISE L1 Stair landing is concrete slab.
 - .2 Detail 7/A600: REVISE L1 Stair landing is concrete slab.

2.9 Reference drawing A700 “DOOR AND FRAME TYPES, DETAILS & SCHEDULE” (drawing not re-issued):

- .1 Revise “DOOR SCHEDULE” DOOR NO. 101, 102, 103 “GLAZING TYPE” from:

“~~GL1-S~~”

To:

“GL1”

- .2 Revise “DOOR SCHEDULE” DOOR NO. 125 “GLAZING TYPE” from:

“~~GL14A~~”

To:

“GL14”

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2.10 Reference drawing A720 “INTERIOR SCREEN SCHEDULE” (drawing not re-issued):

- .1 Revise “INTERIOR GLAZING SCHEDULE” MIR – LITE – GLASS TYPE AND THICKNESS note:
“~~MIRROR 6mm FT – REFER TO SPEC.~~”
To:
“MIRROR – REFER TO SPEC.”

2.11 Reference drawing A900 “MILLWORK DRAWINGS”:

- .1 Drawing A900 “MILLWORK DRAWINGS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A900 “MILLWORK DRAWINGS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:
 - .1 Detail 11/A900: REVISED to provide additional information regarding composition of cabinet door.

2.12 Reference drawing A901 “MILLWORK DRAWINGS”:

- .1 Drawing A901 “MILLWORK DRAWINGS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A901 “MILLWORK DRAWINGS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:
 - .1 Detail 12/A901: REVISED to accommodate communications box, phone BIX and TV panels.
 - .2 Detail 13/A901: REVISED to accommodate communications box, phone BIX and TV panels.

2.13 Reference drawing A902 “MILLWORK DRAWINGS”:

- .1 Drawing A902 “MILLWORK DRAWINGS”, dated 2018-03-28 “Issued for Addendum No.6 to replace and supersede drawing A902 “MILLWORK DRAWINGS”, dated 2018-03-01 “Issued for Tender”. Changes include but are not limited to:
 - .1 Detail 12/A902: ADD section tag referring to 10/A900.
 - .2 Detail 24/A902: REVISE cabinets to be PLAM1 c/w ALUM base. REMOVE reference to “custom stainless-steel millwork.”
 - .3 Detail 25/A902: REVISE dimensions and specification of pegboard. Provide DIAMONDLIFE GEAR PEGBOARD DIAMONDLIFE GEAR PEGBOARD X2 - 2' X 4' GALVANIZED STEEL HPB4848.G

2.14 Reference drawing A950 “EXTERIOR SIGNAGE – LOCATION PLAN”, detail “X2, Section (Detail)” (drawing not re-issued):

- .1 Revise annotation note from:
“~~FLUSH MOUNT TO WALL/ D/S TAPE AND SILICONE ADHESIVE~~”
To:
“VINYL ADHERED TO ALUM. CLADDING PANEL”

2.15 Reference drawing A951 “INTERIOR SIGNAGE – LOCATION PLANS”:

- .1 Add sign type: R8 Vinyl Privacy Screen
- .2 Revise tags on Sign Plan for Sc107B, Sc106, and Sc107c to R8.

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2.16 Reference drawing A952 “INTERIOR SIGNAGE – VINYL, REGULATORY:

- .1 Add elevation “R8 – PRIVACY SCREEN ELEVATION” showing elevations of Sc107B, Sc106, and Sc107c. R8 is application of vinyl (J2) on glazing from top of sill channel o 1100mm above finish floor (Level 1).

END OF ARCHITECTURAL ADDENDUM

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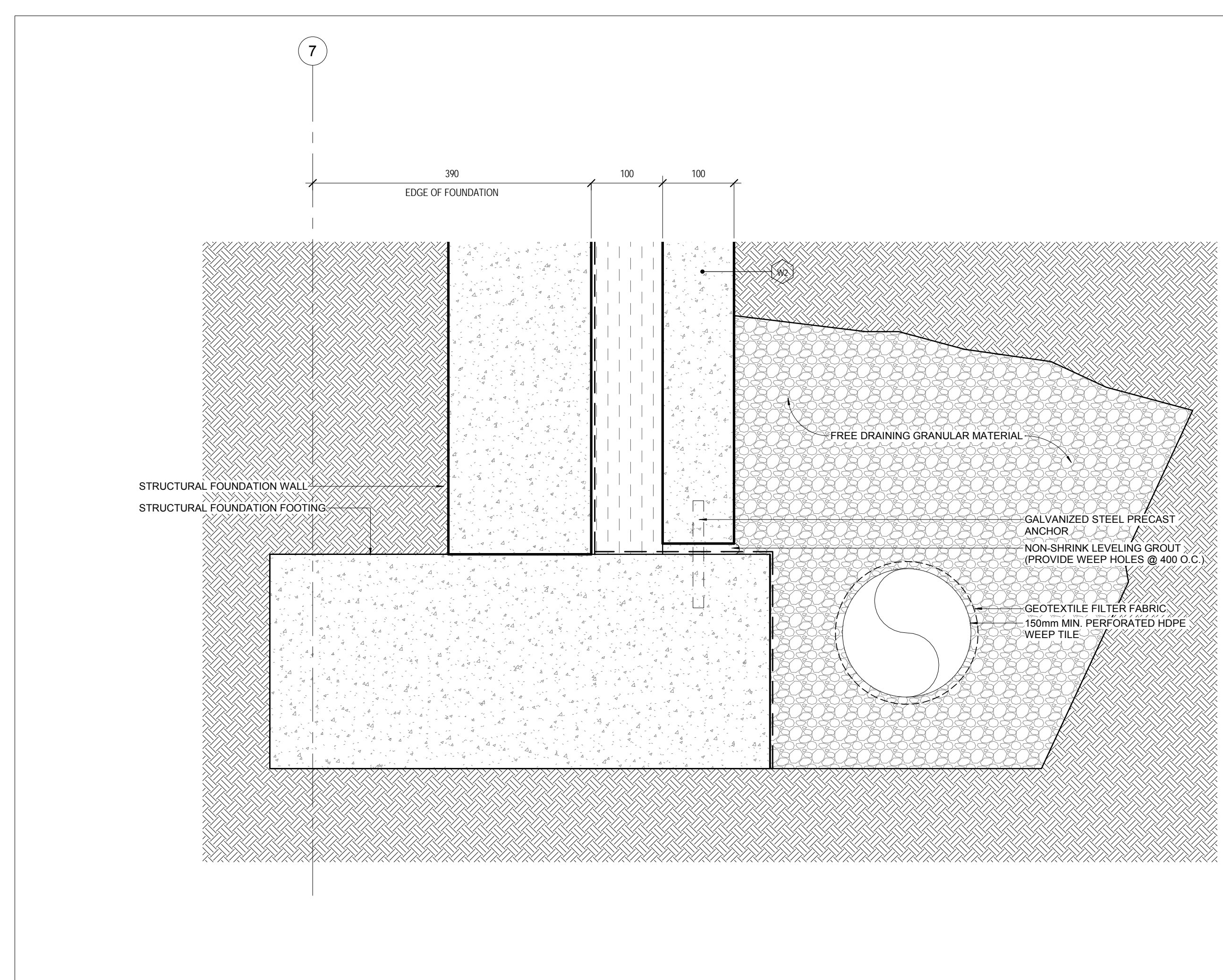
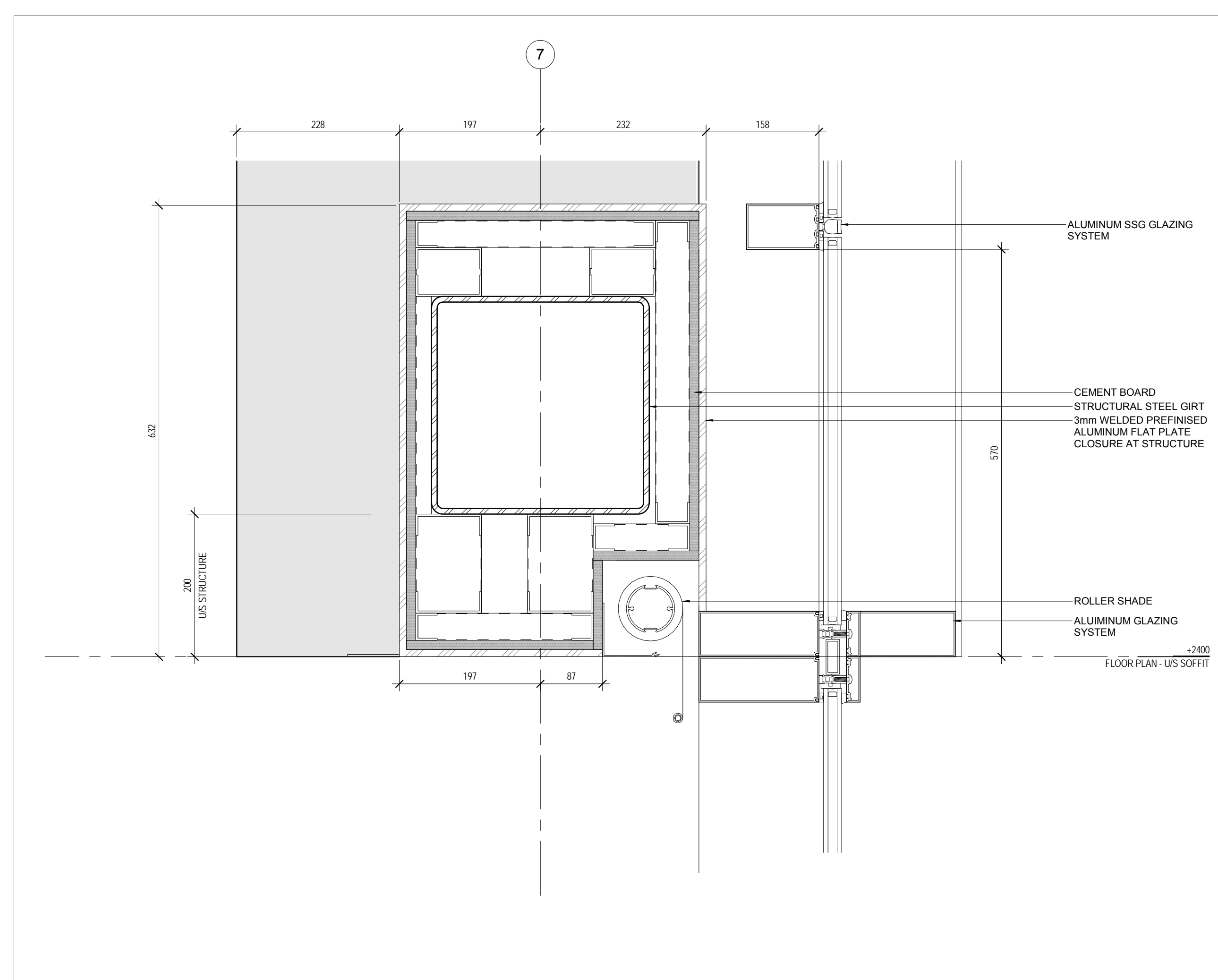
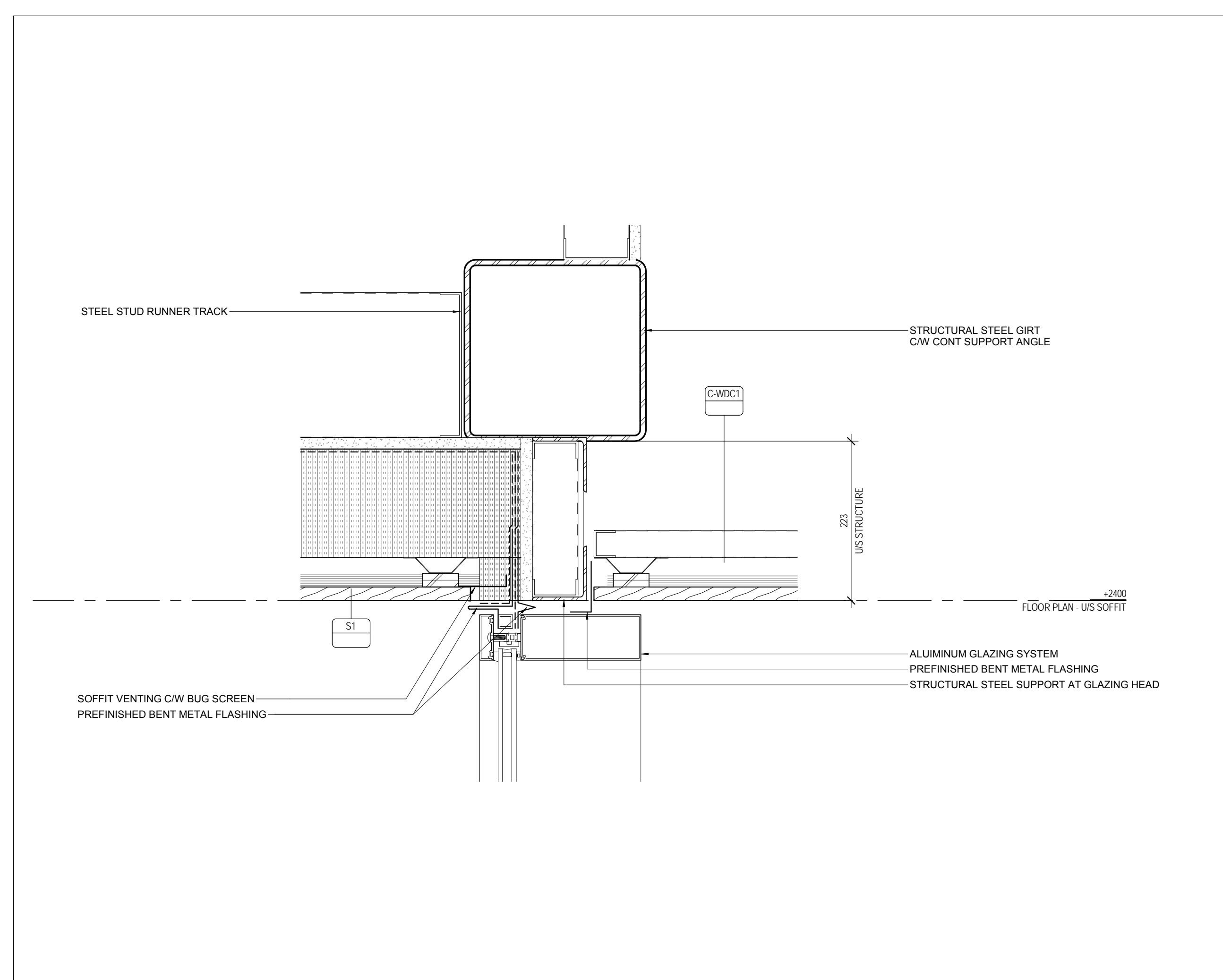
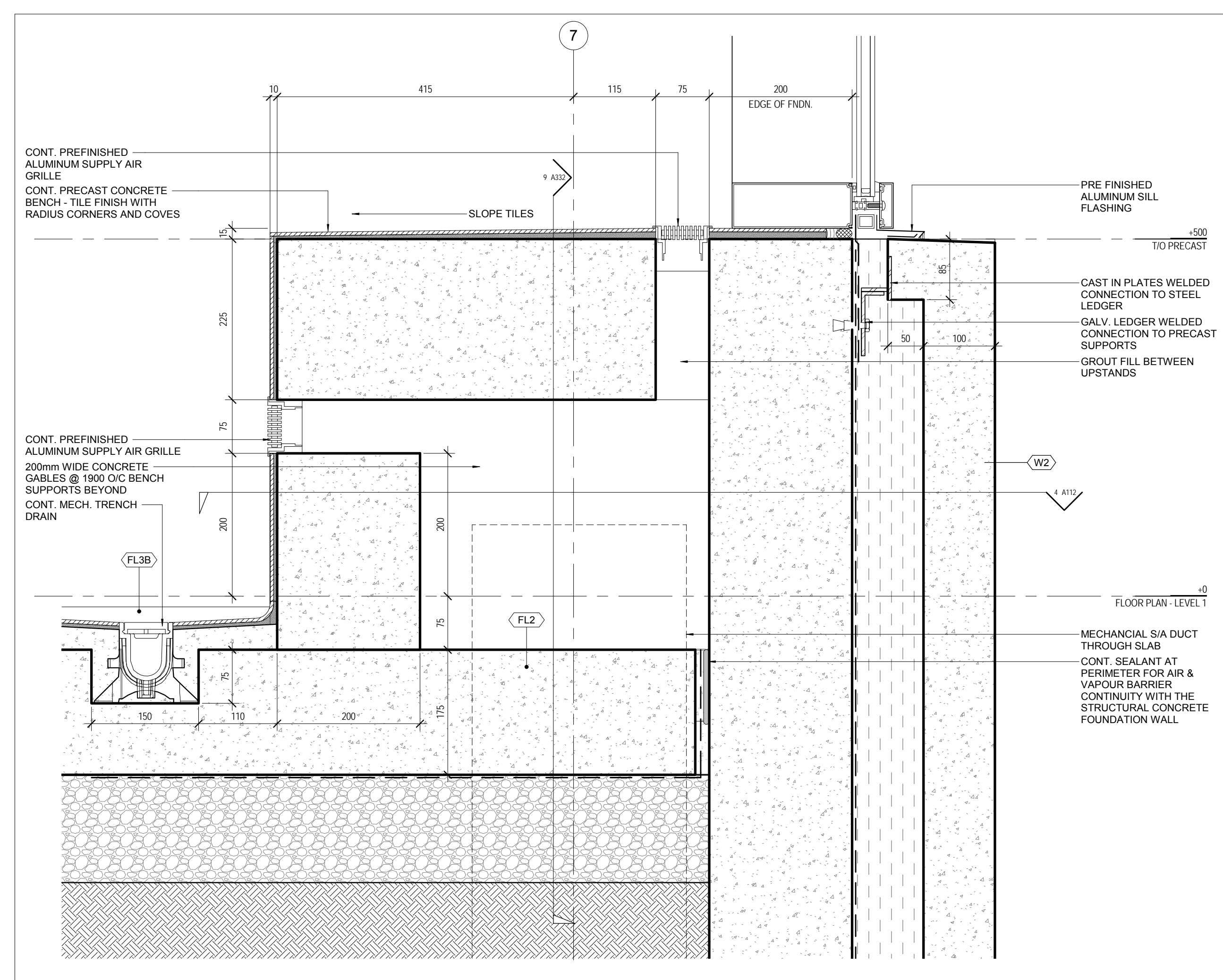
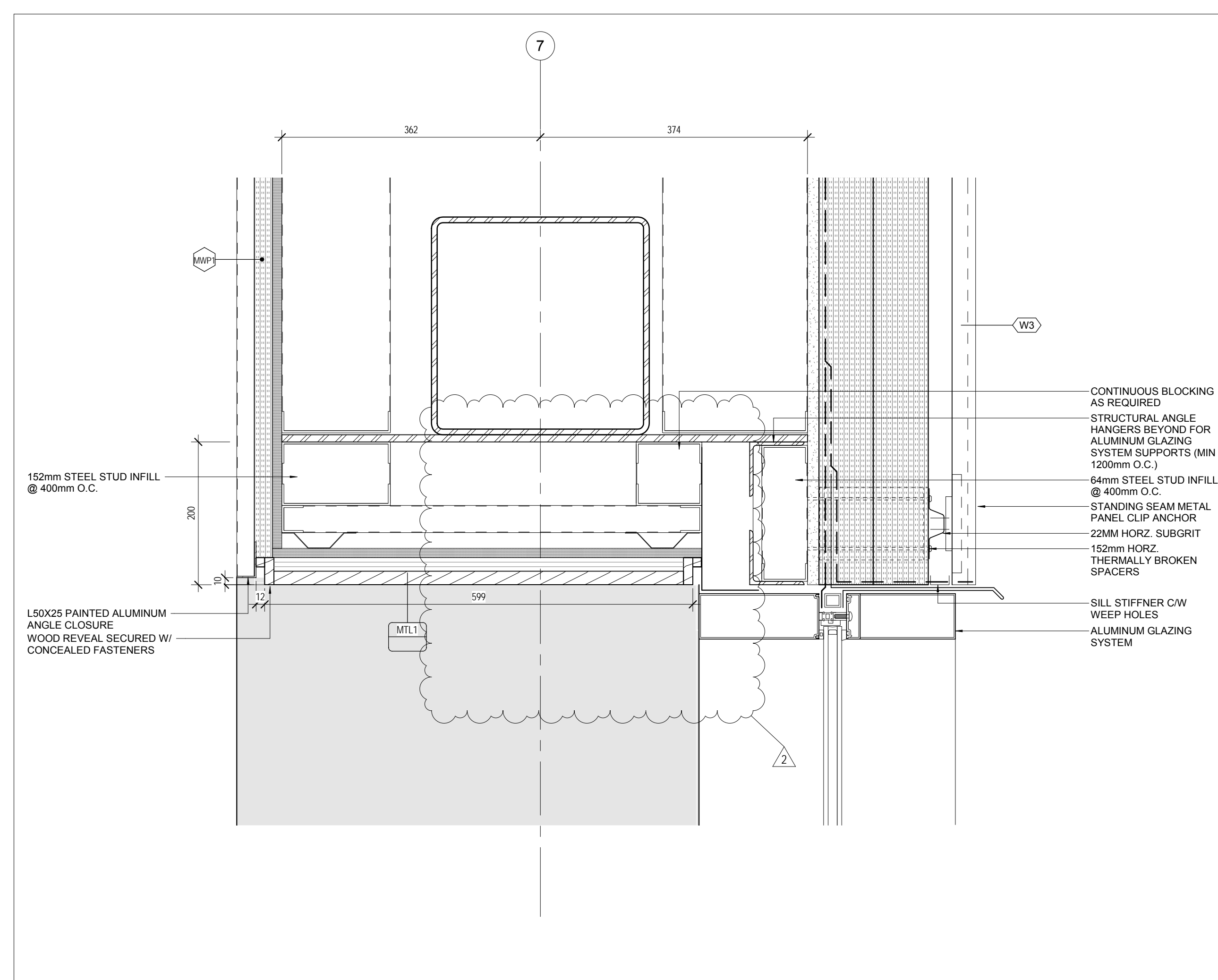
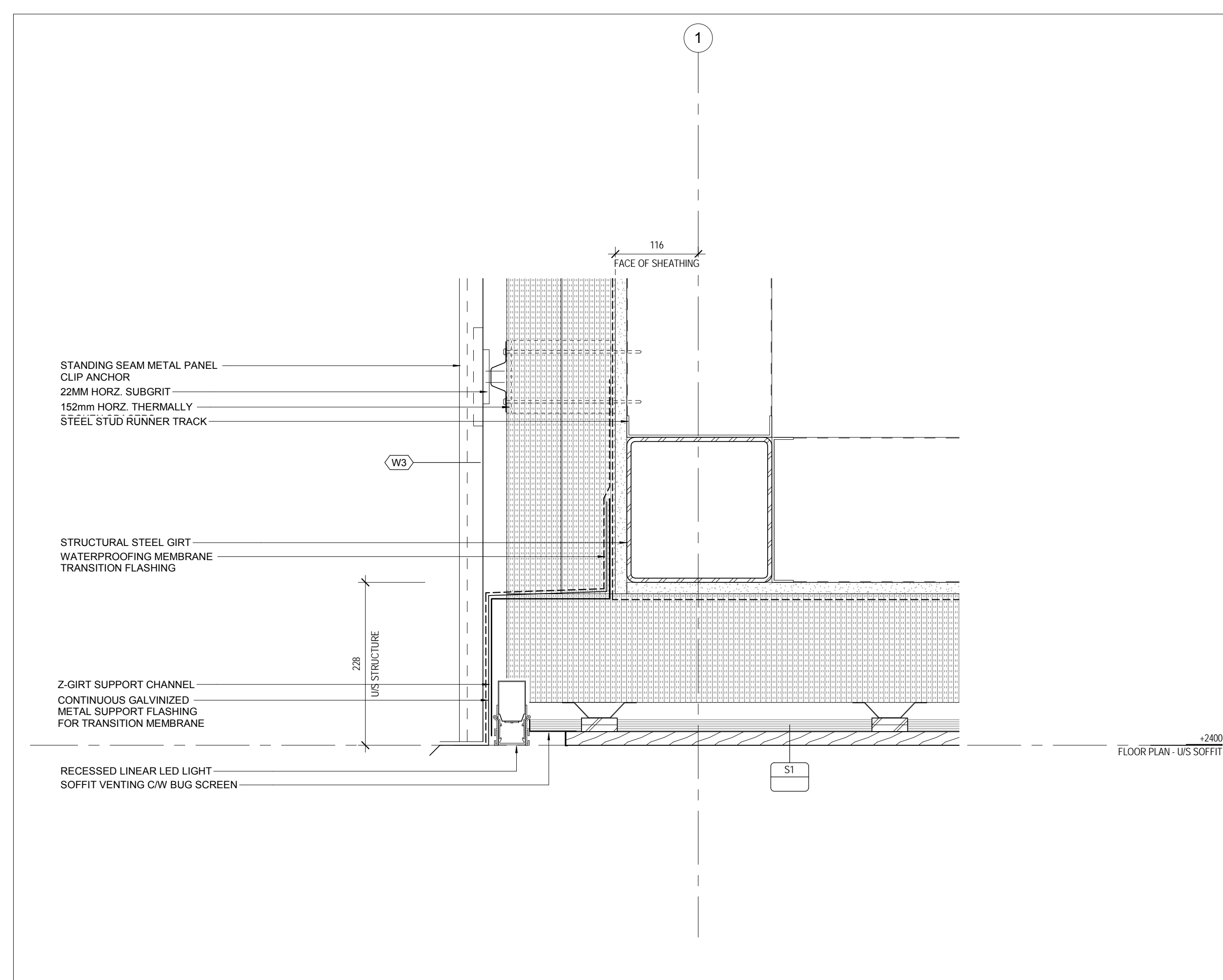
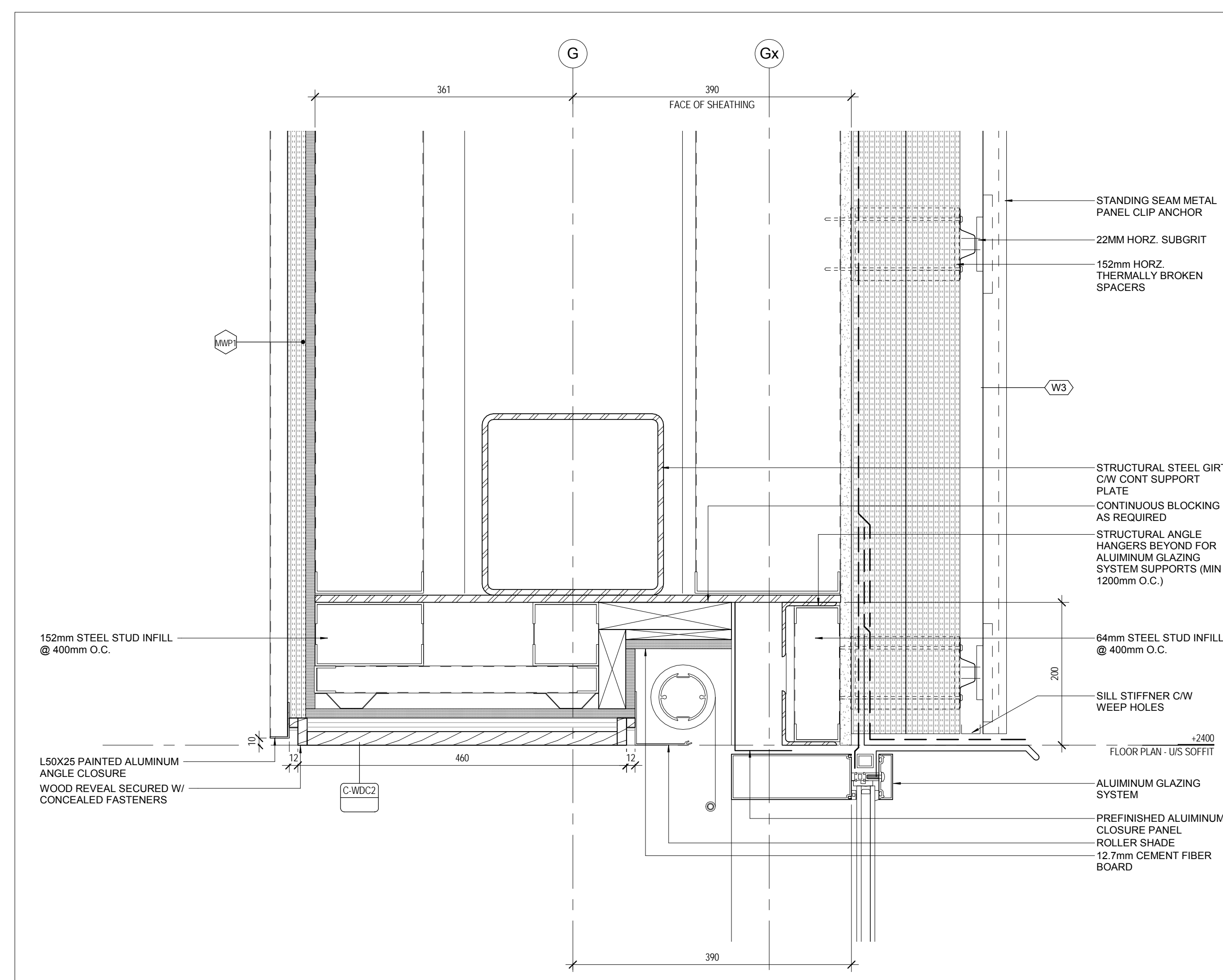
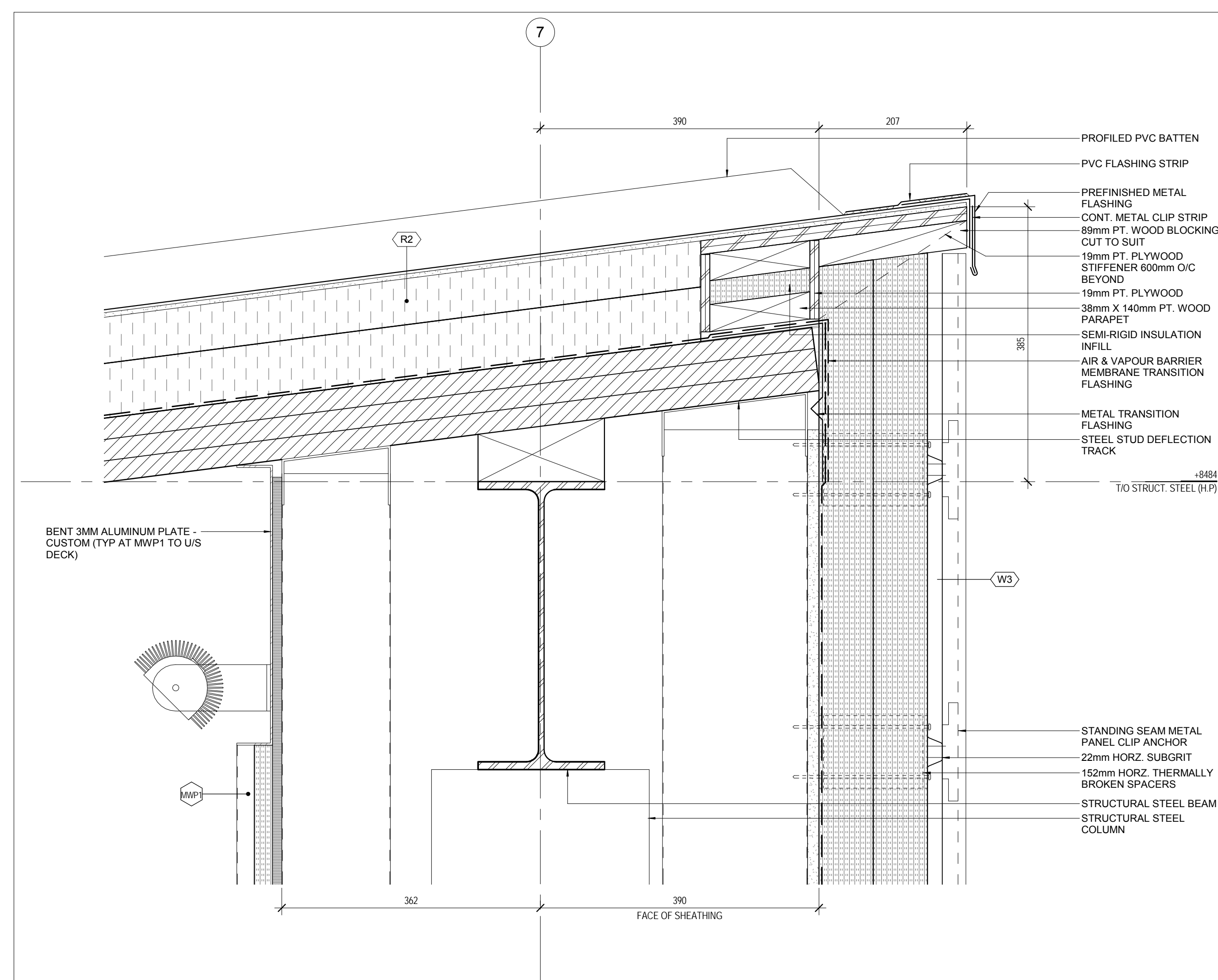
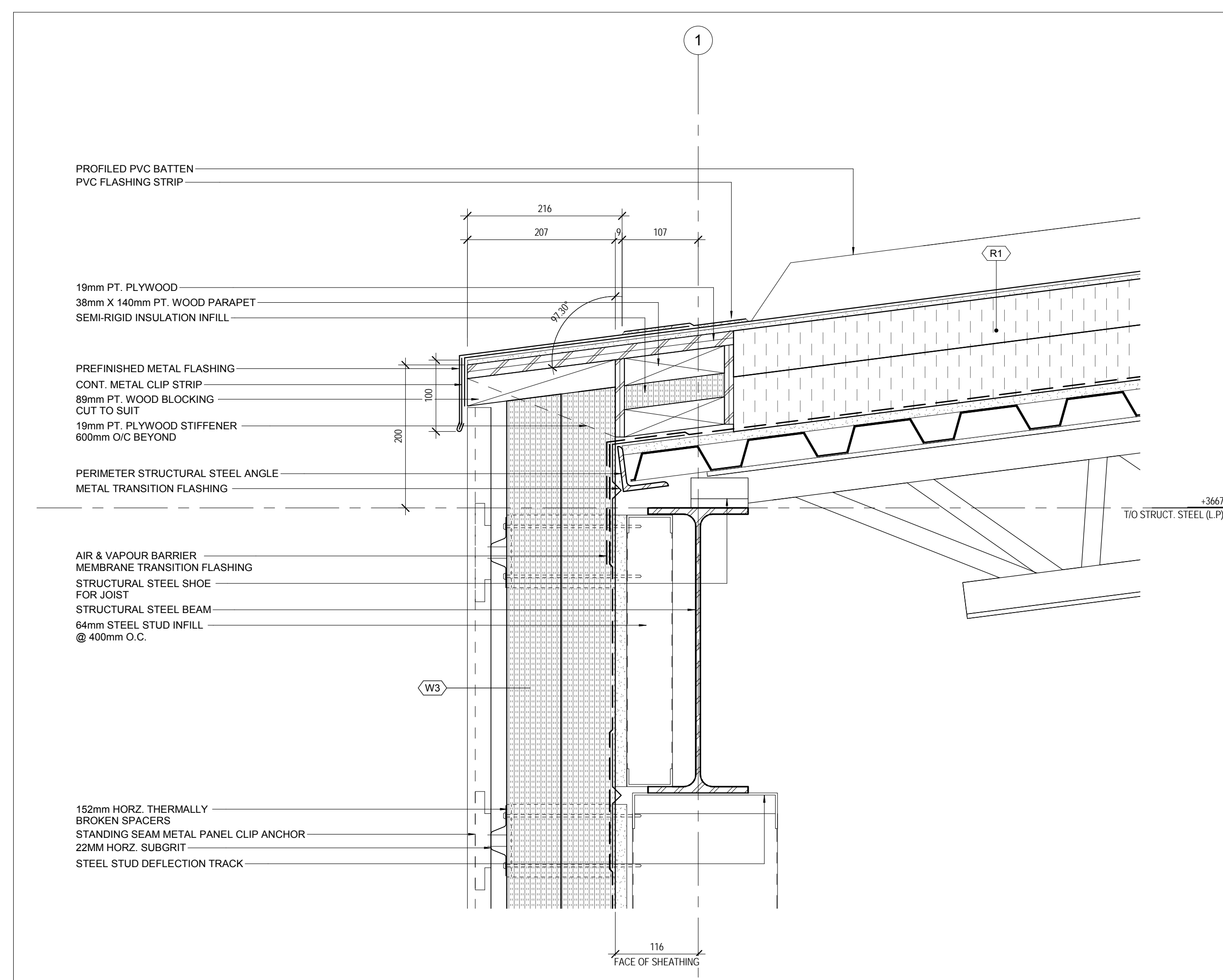
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Bedford, NS B4A 1C5
T: 902 835 5560 F: 902 835 5574



DRAWING TITLE	
BUILDING CROSS-SECTIONS	
SCALE	
1 : 100	
DATE	
2018-03-01	
PROJECT NUMBER	
1609	
DRAWING NUMBER	

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Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.

Do not scale this drawing.

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Toronto, Ontario, M2P 2A9
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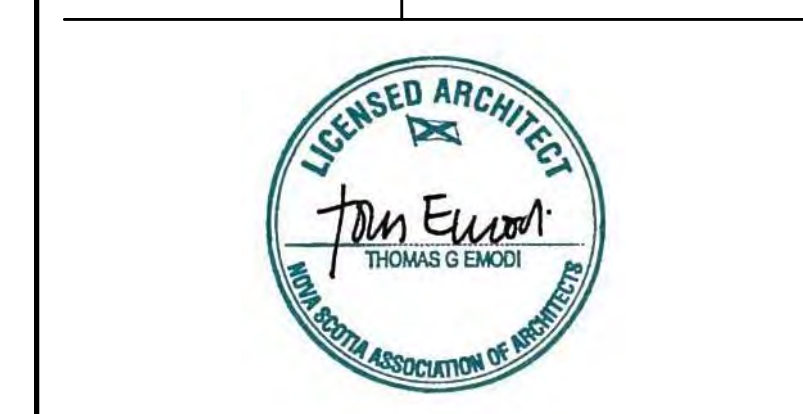
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Municipality of East Hants
Parks, Recreation and Culture
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15 Commerce Court
Elmsdale, NS B2S 3K5
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KEYPLAN	
NORTH ARROW	



PROJECT TITLE	East Hants Aquatic Centre
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Commerce Court, Elmsdale, NS

DRAWING TITLE
SECTION DETAILS -
EXTERIOR

EXTERIOR

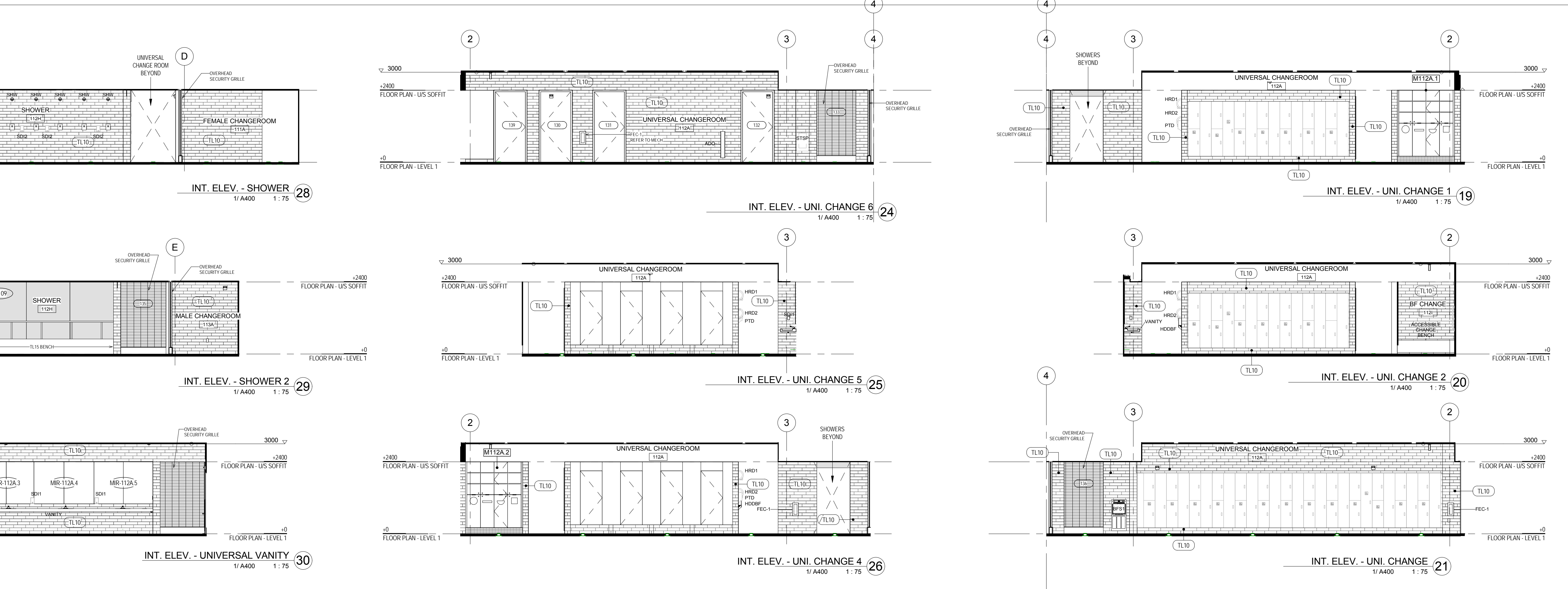
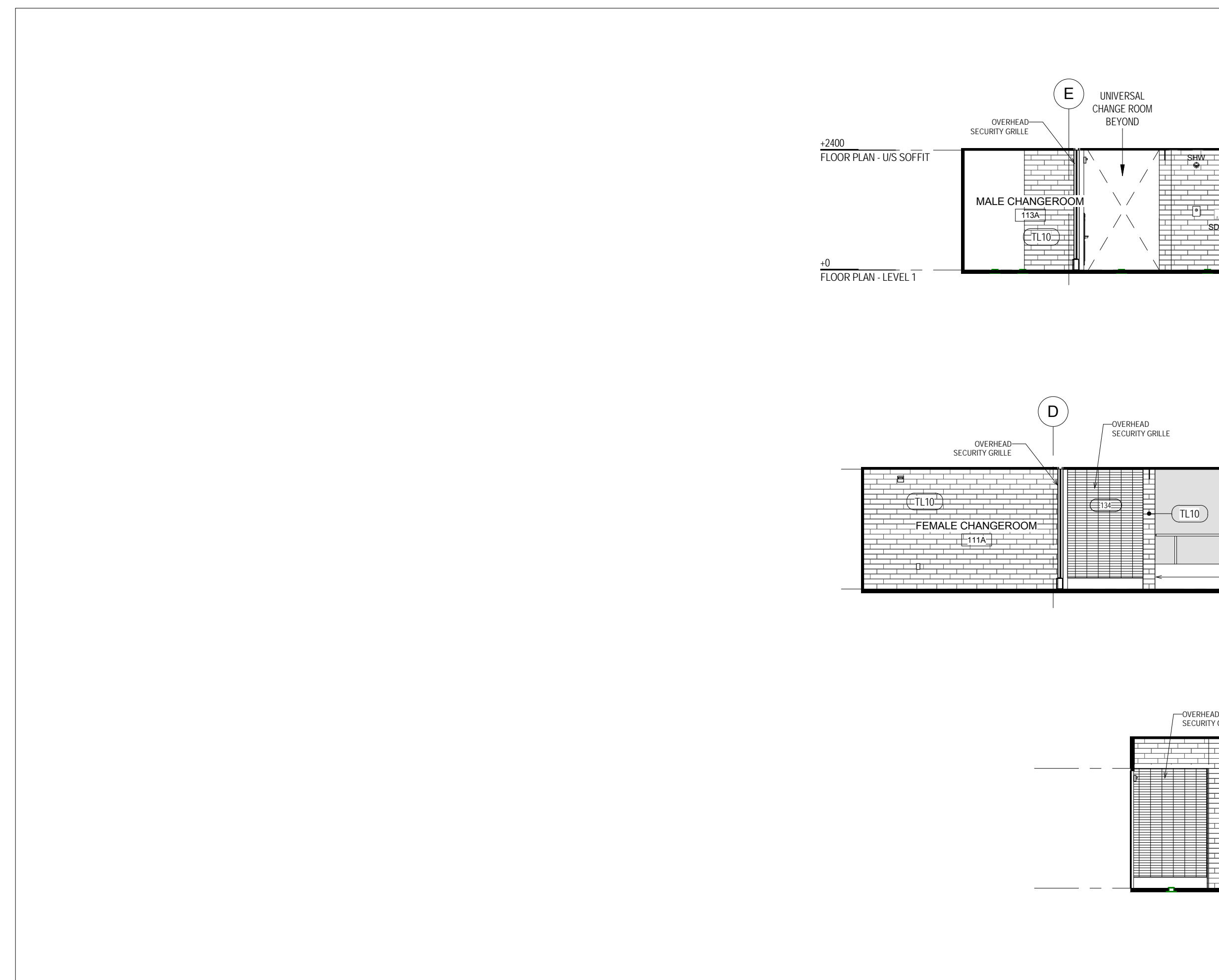
SCALE

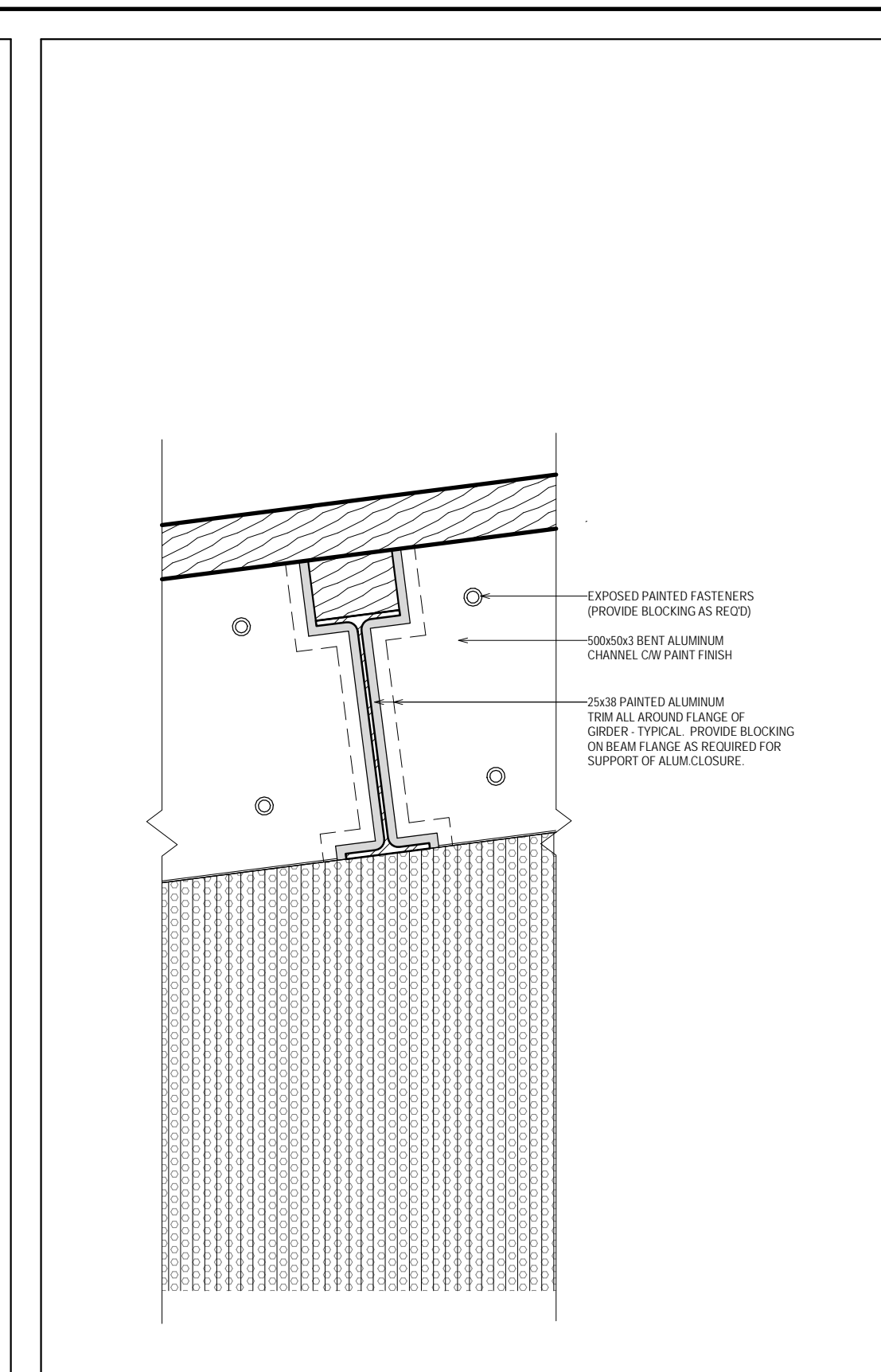
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2018-03-01PROJECT NUMBER
10001609
DRAWING NUMBER

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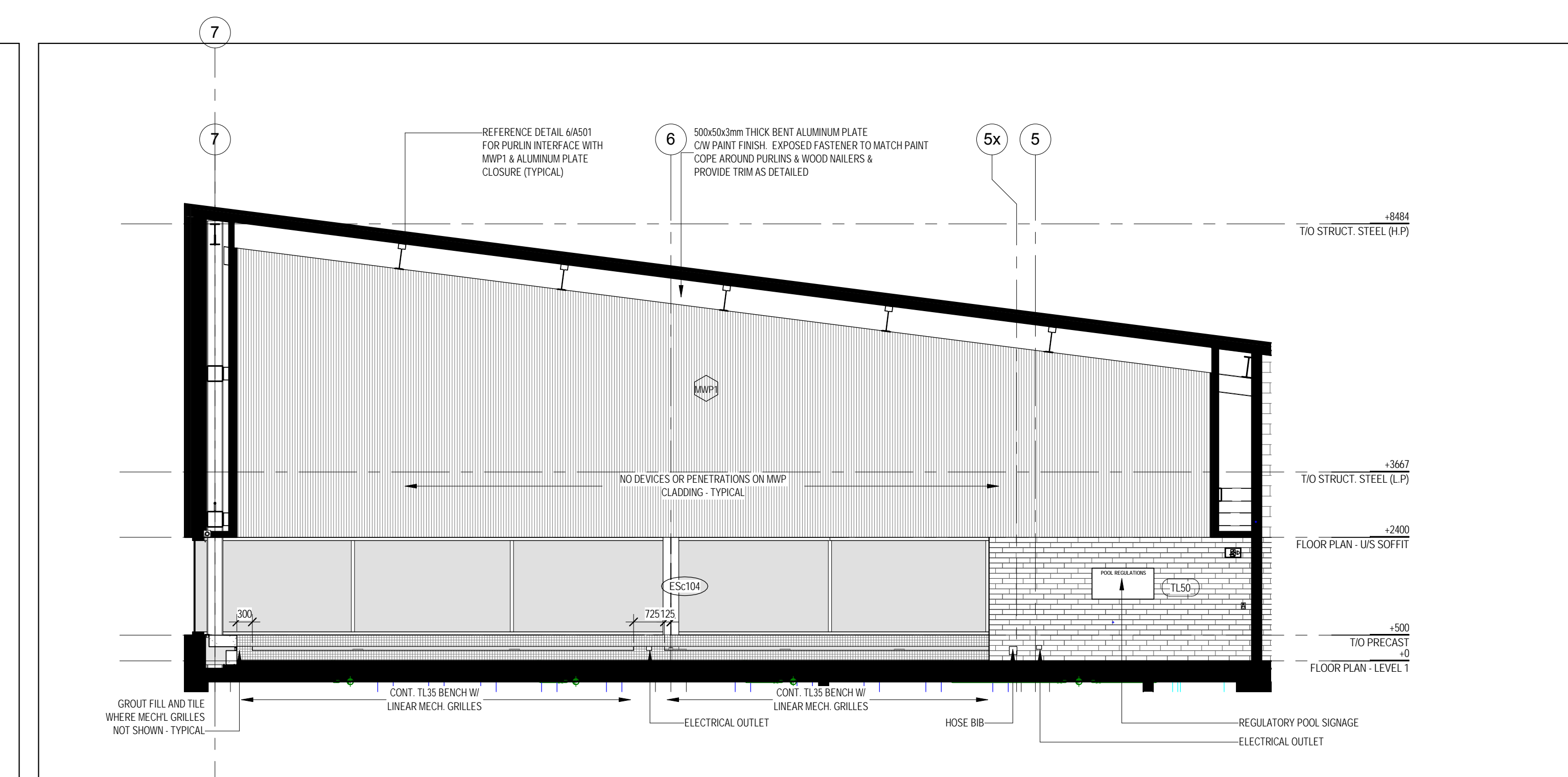
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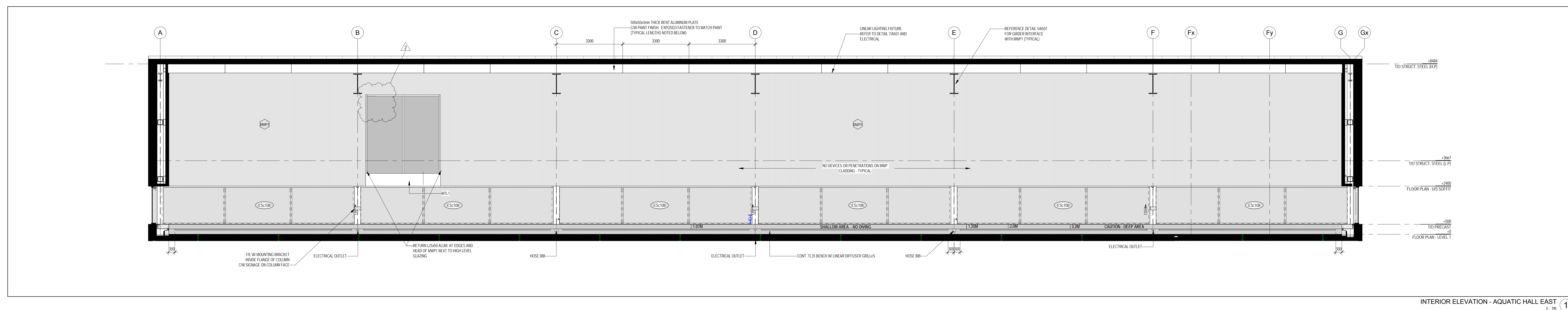
Architectural floor plan of a building level, showing various rooms, corridors, and structural details. The plan includes labels for rooms like "CHANGE ROOM ENTRY", "SHALLOW AREA - NO DRIVING", and "DEPT. STORAGE". It also features structural notes such as "PAINTED SPRINKLER HEAD COORDINATE PENETRATIONS" and "MECHANICAL SPOT DIFFUSERS COORDINATE PENETRATIONS". The plan is oriented with "TO STRUCT. STEEL B & D" and "TO PRECAST" directions. The drawing is dated "11/11" and includes a scale of "1/8" = 1'-0"

[illegible]

INTERIOR ELEVATION - AQUATIC HALL NORTH 1:75 2



INTERIOR ELEVATION - AQUATIC HALL SOUTH 1:75 3



INTERIOR ELEVATION - AQUATIC HALL EAST 1:75 1

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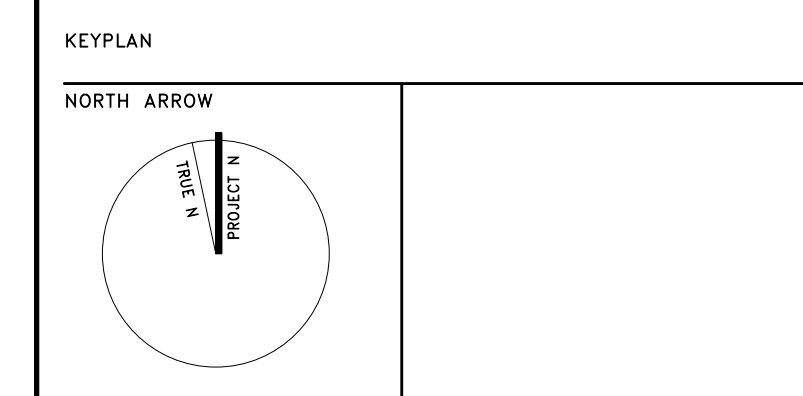
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PROJECT TITLE
East Hants Aquatic Centre

DRAWING TITLE
INTERIOR ELEVATIONS

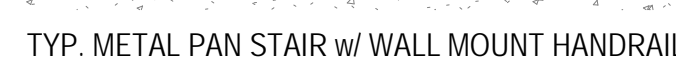
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DATE
2018-03-01

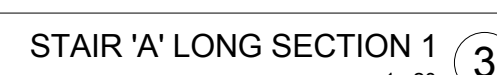
PROJECT NUMBER
1609

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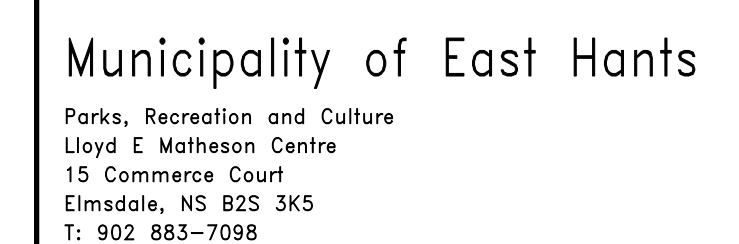
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METAL PAN STAIR DETAILS 1-10



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Bedford, NS B4A 1C5
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PROJECT TITLE
East Hants Aquatic Centre

Commerce Court, Elmssdale, NS

DRAWING TITLE
INTERIOR STAIR PLANS,
SECTIONS AND DETAILS

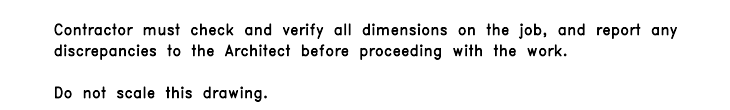
SCALE
As indicated

DATE
2018-03-01

PROJECT NUMBER
1609

DRAWING NUMBER

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902 883-7098

KEY PLAN

NORTH A.



PROJECT DUE

East Hants Aquatic Centre

Commerce Court, Elmsdale, NS

DRAWING TITLE
MILLWORK DRAWINGS

SCALE

As indicated

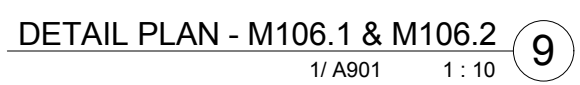
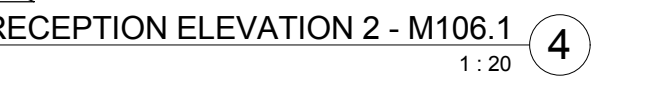
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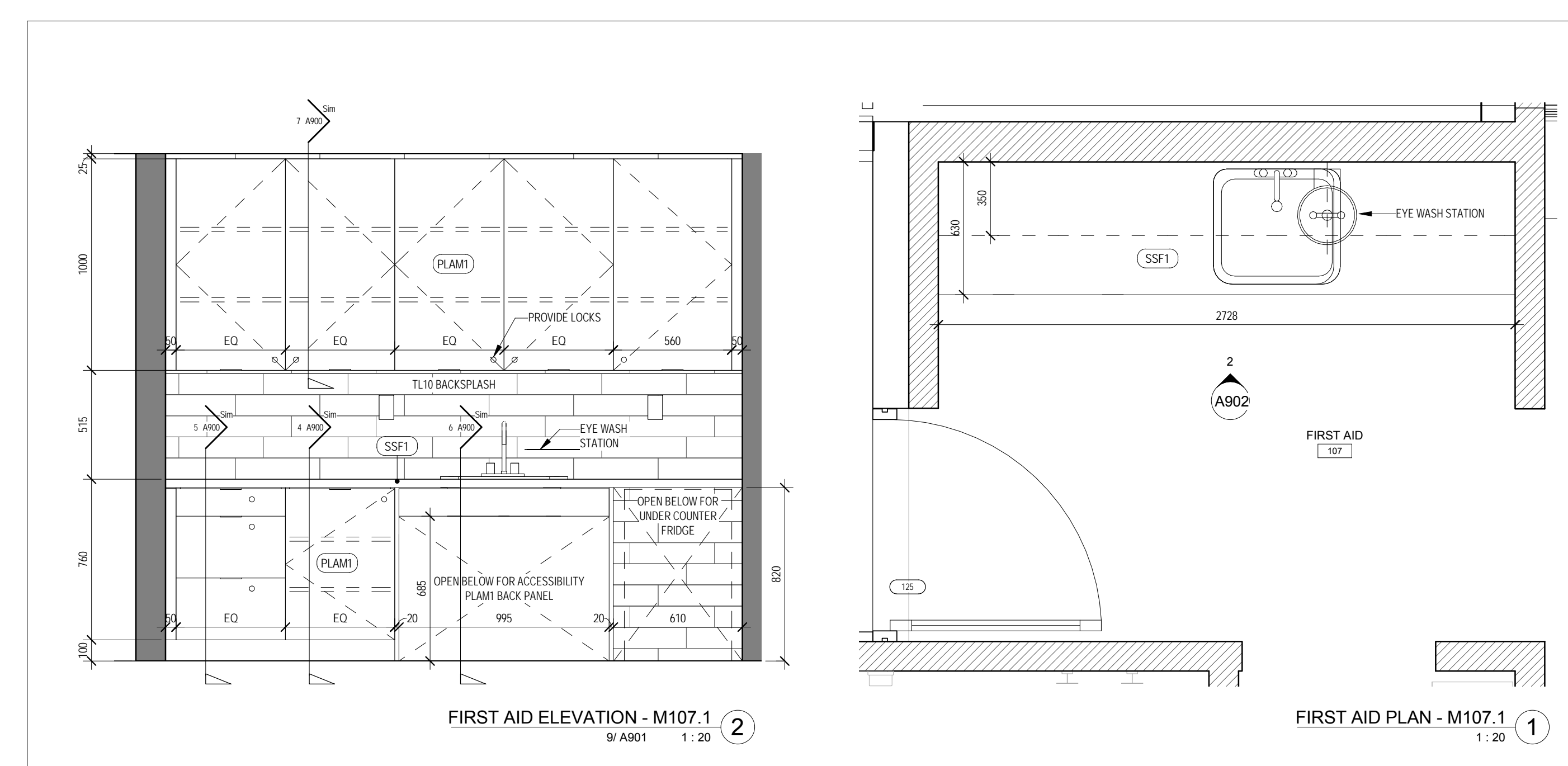
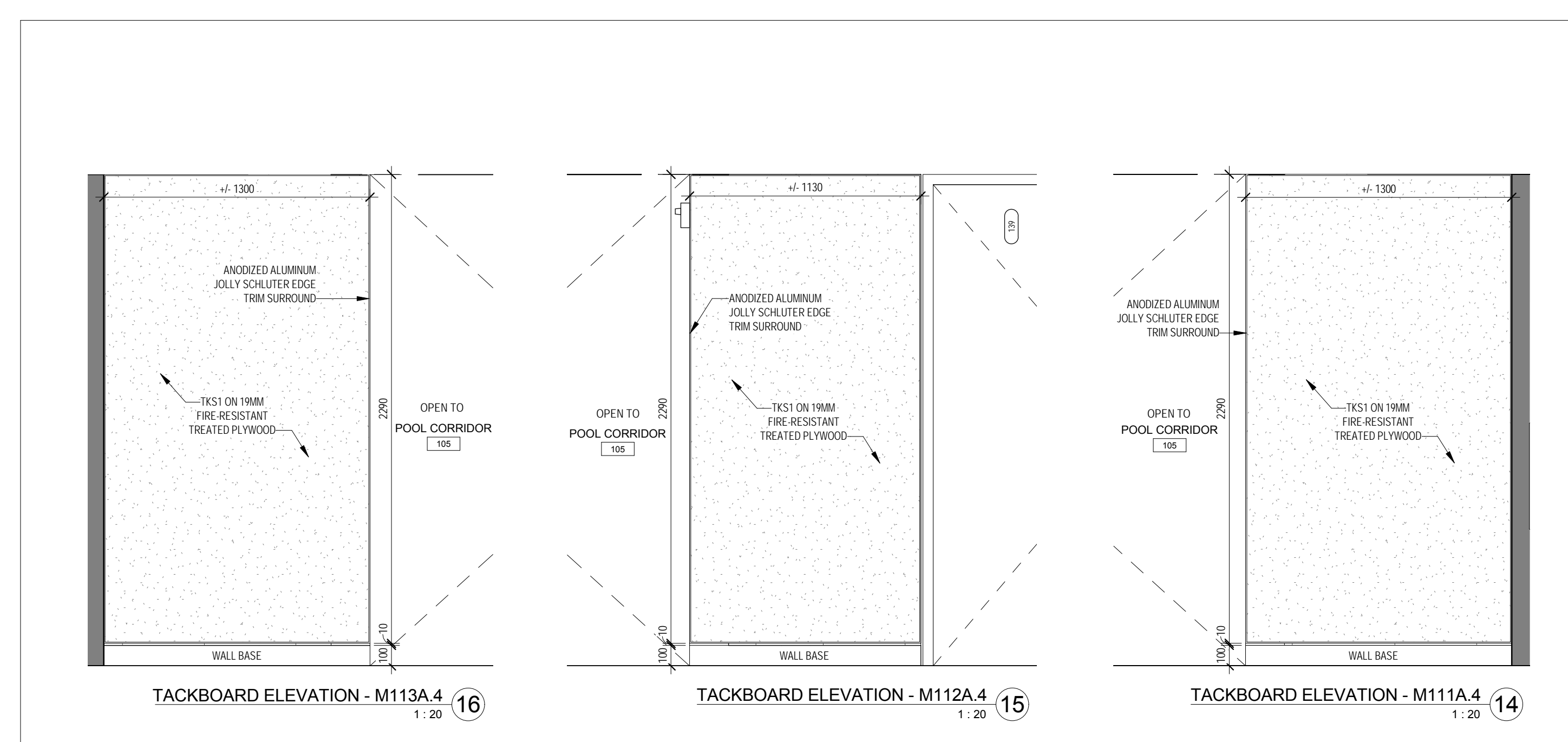
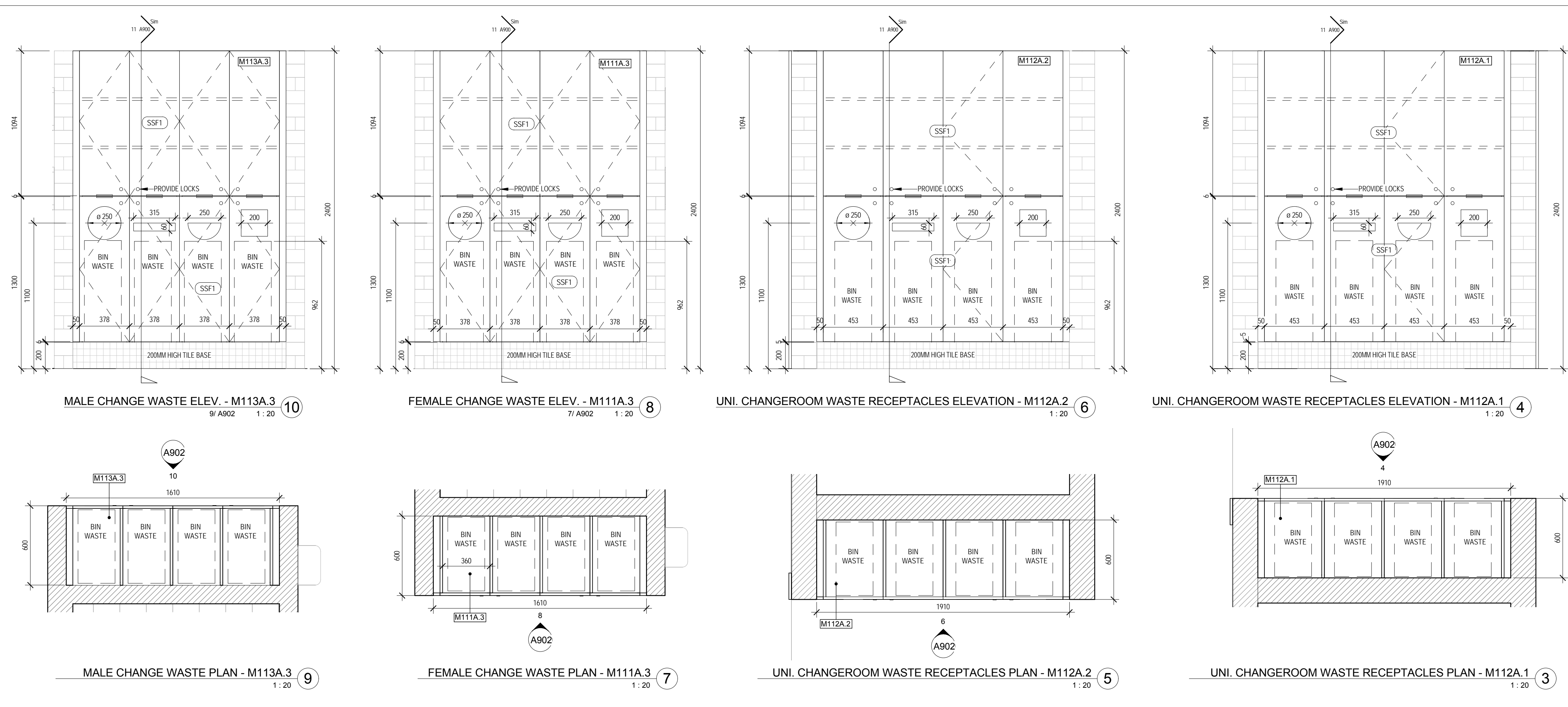
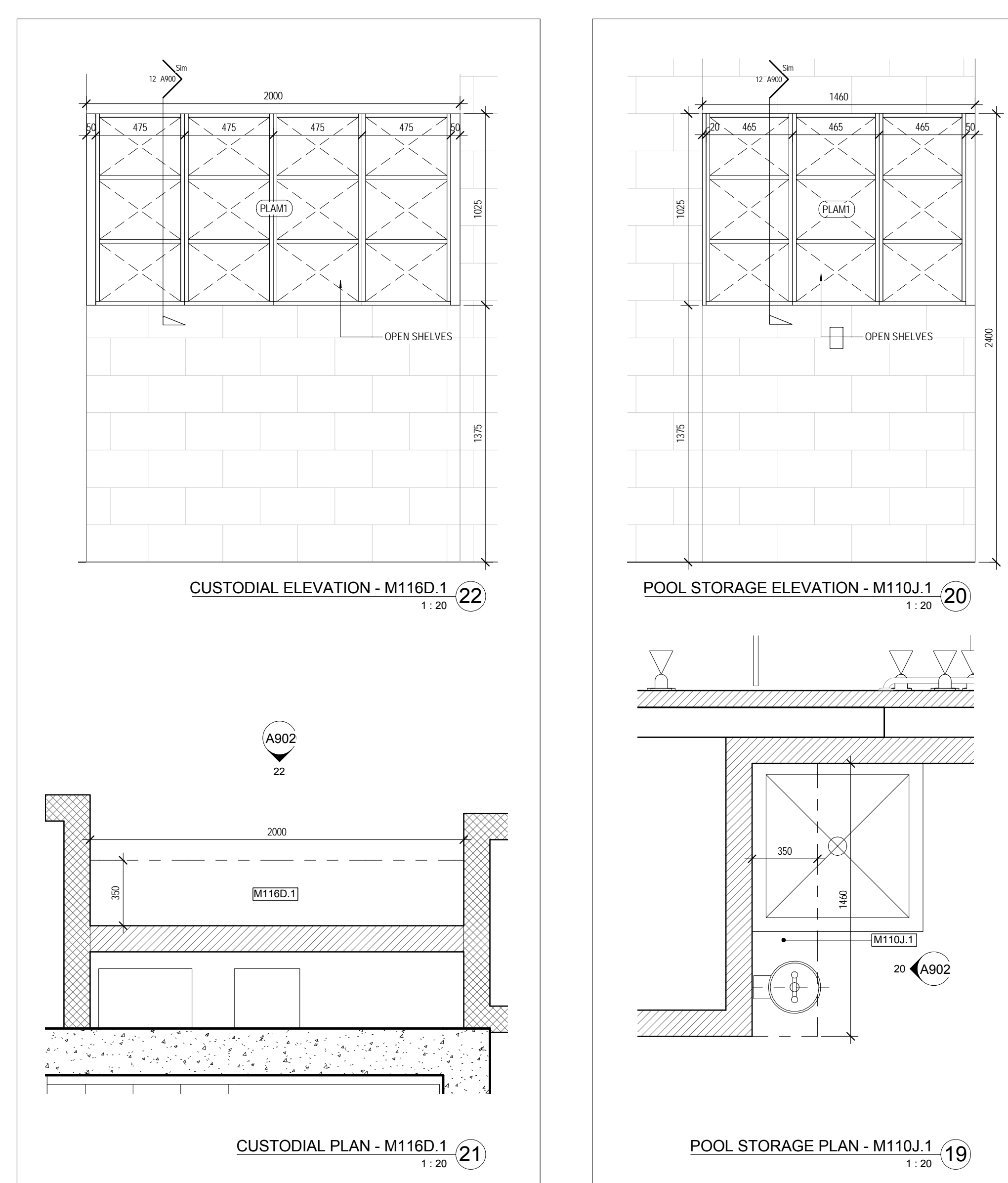
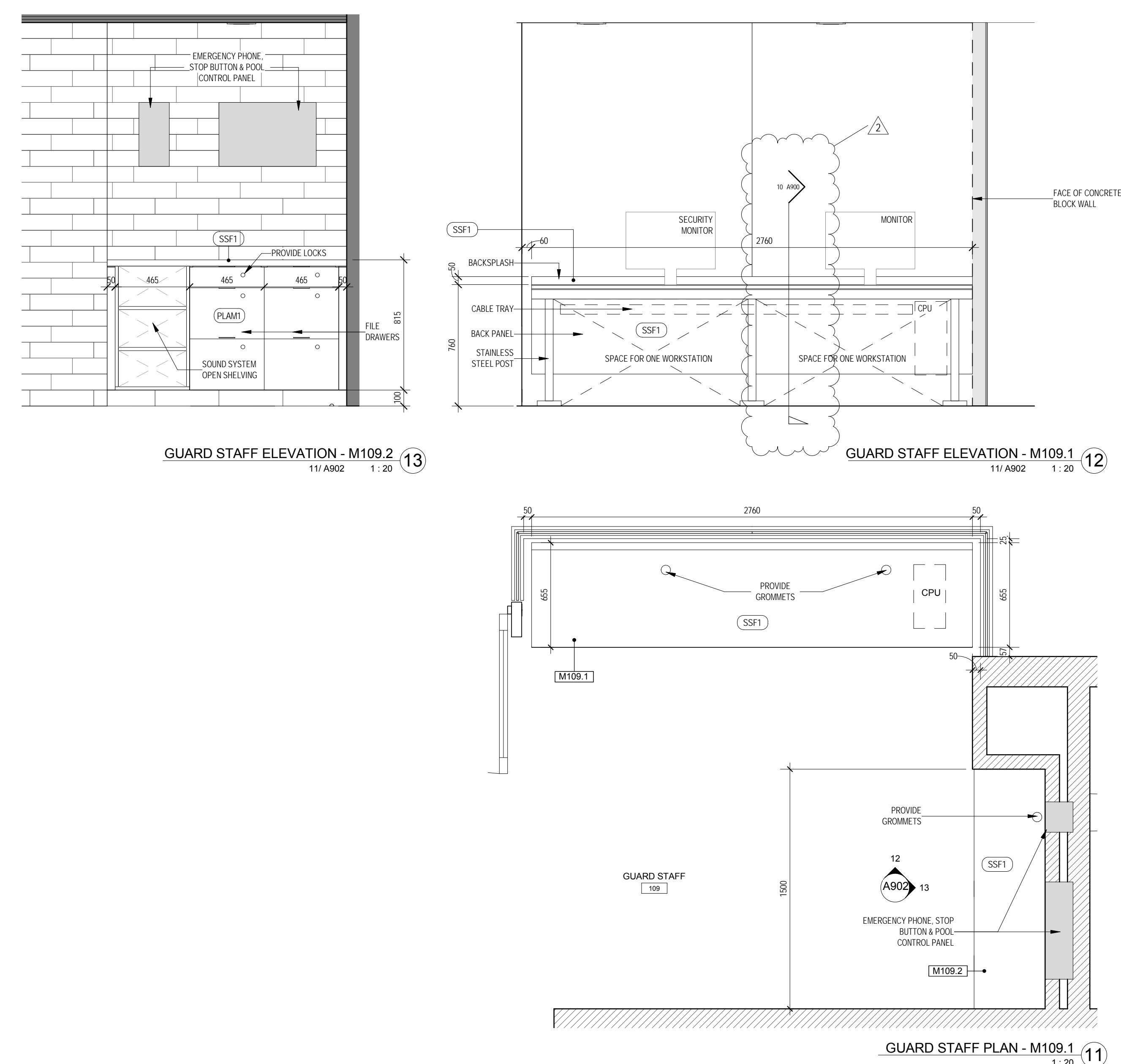
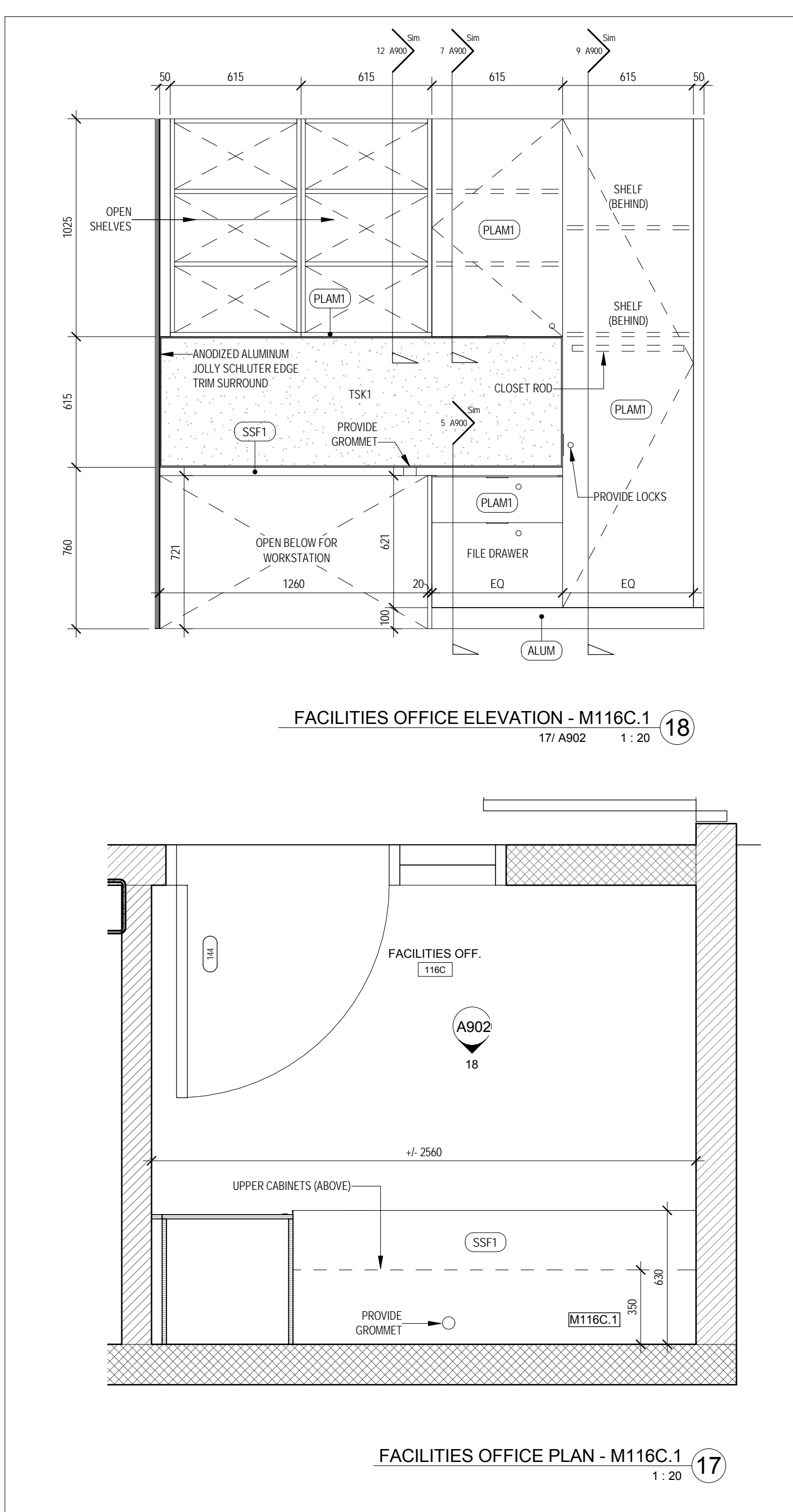
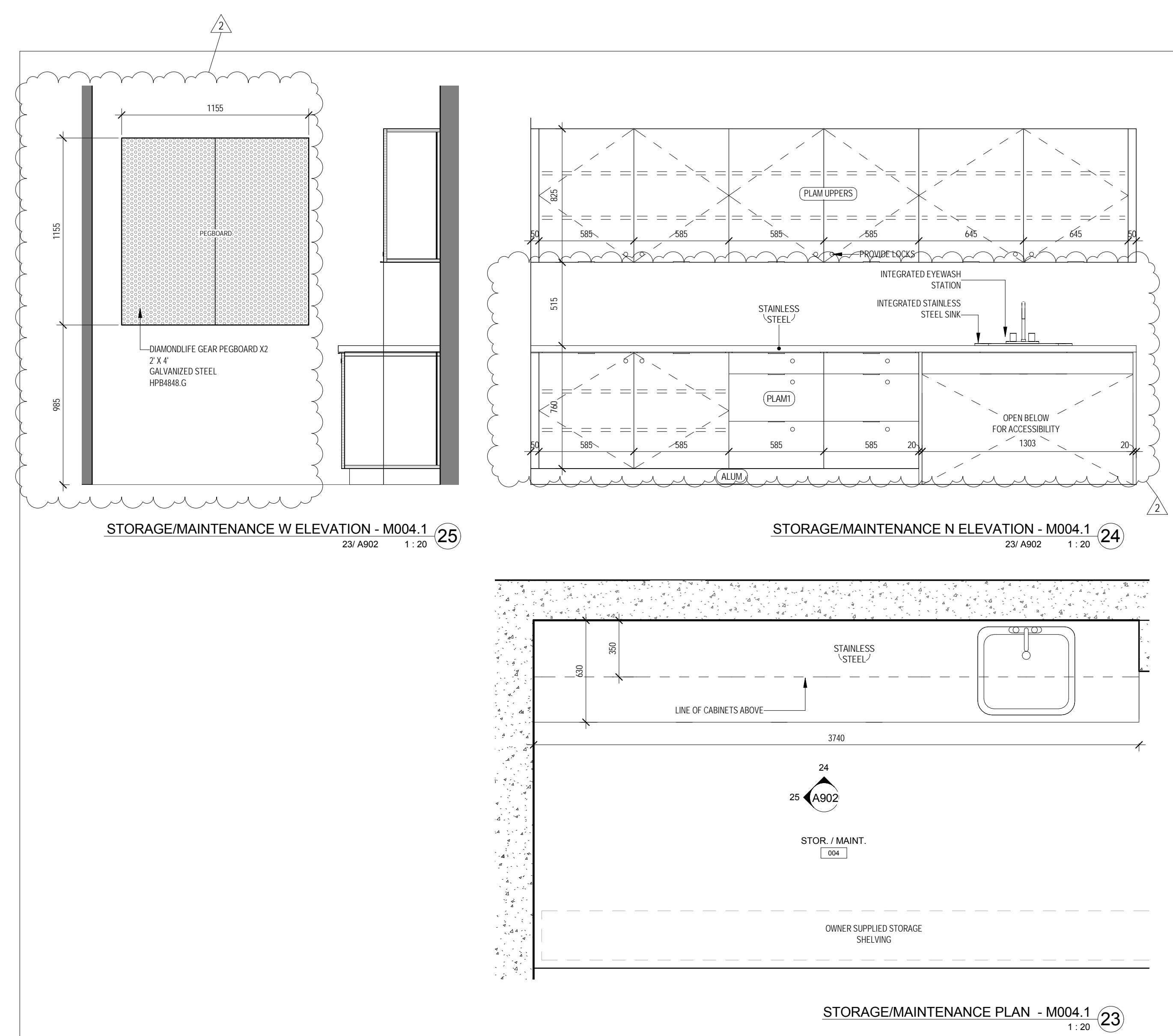
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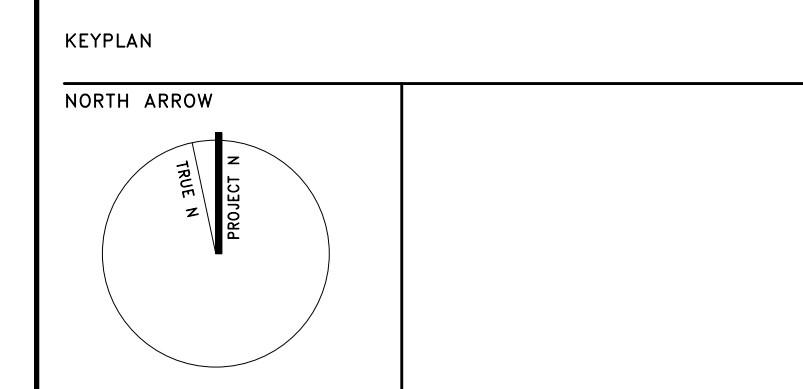
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Municipality of East Hants

Parks, Recreation and Culture
Lloyd E Matheson Centre
15 Commerce Court
Elmsdale, NS B2S 3K5
506-222-3888



PROJECT TITLE
East Hants Aquatic Centre

Commerce Court, Elmsdale, N.

DRAWING TITLE
MILLWORK DRAWINGS

SCALE	1 : 20
DATE	2018-03-01
PROJECT NUMBER	1609
DRAWING NUMBER	

Structural Addendum S3

1. SPECIFICATIONS

1.1 No revisions issued.

2. DRAWINGS

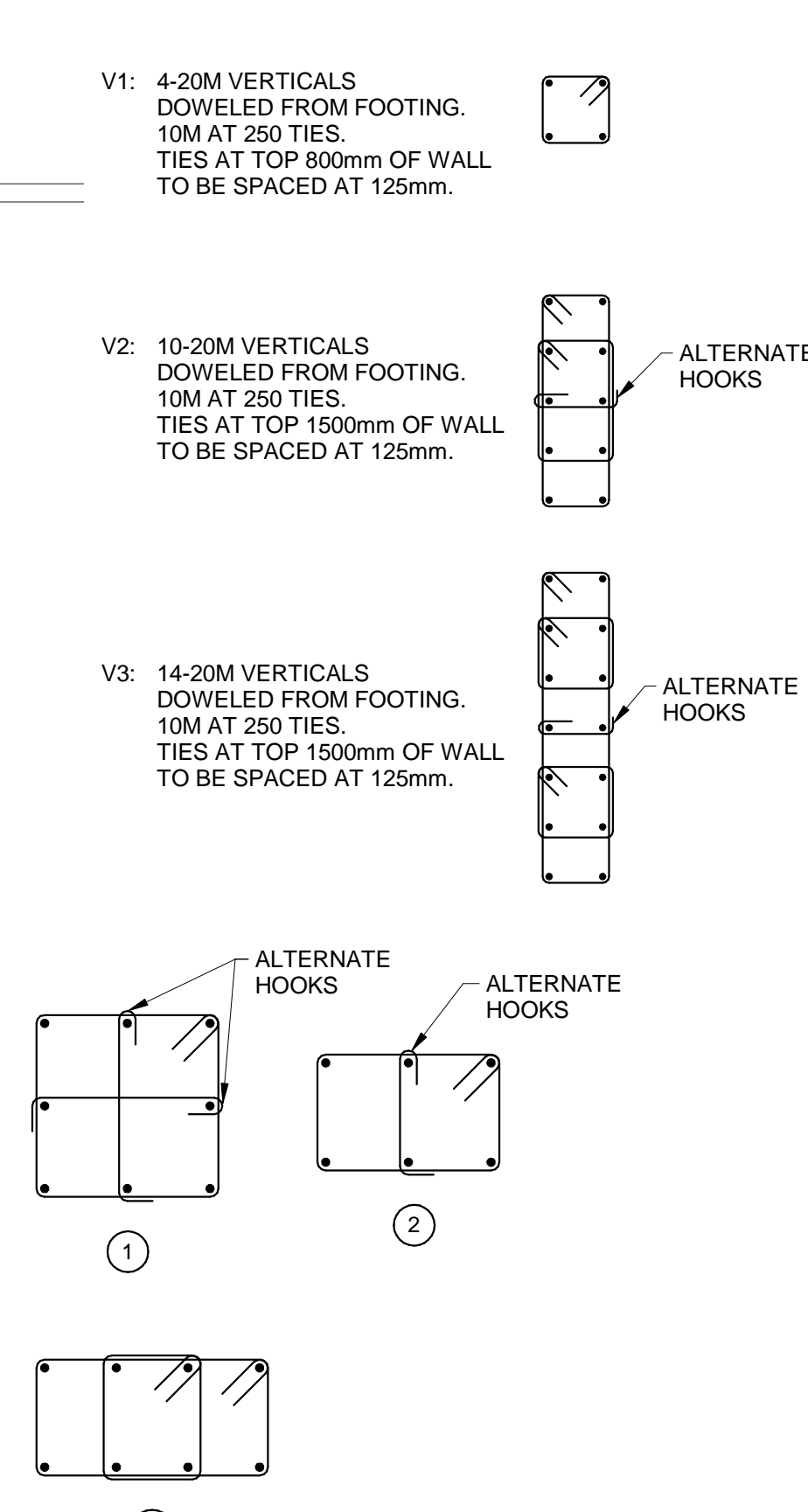
2.1 Reference drawing S100 "FOUNDATION PLAN":

- .1 Drawing S100 "FOUNDATION PLAN", dated 2018-03-28 "Issued for Addendum No. 6" to replace and supersede drawing S100 "FOUDNATION PLAN", dated 2018-03-09 "Issued for Addendum No. 2".

2.2 Reference drawing S200 "SECTIONS":

- .1 Drawing S200 "SECTIONS", dated 2018-03-28 "Issued for Addendum No. 6" to replace and supersede drawing S200 "SECTIONS", dated 2018-03-23 "Issued for Addendum No. 5".

END OF STRUCTURAL ADDENDUM



FOOTING SCHEDULE		
MARK	SIZE	REINFORCING
FT10	2700x2700x600mm	12-20M E.W.B.
FT20	2400x2400x500mm	8-20M E.W.B.
FT30	1800x1800x400mm	8-15M E.W.B.
FT40	2700x3400x600mm	12-20M E.W.B.
FT50	5300x2700x600mm	12-20M BOTTOM LONG 24-20M BOTTOM SHORT

PIER SCHEDULE			
MARK	SIZE	VERTICAL REINFORCING AND DOWELS	TIES
P10	600x600mm	8-25M	10M AT 400 (1)
P20	550x550mm	8-25M	10M AT 400 (1)
P30	600x600mm	8-25M	10M AT 400 (1)
P40	400x600mm	6-25M	10M AT 400 (2)
P50	300x750mm	8-25M	10M AT 400 (3)

C.J.: DENOTES CONSTRUCTION OR CONTROL JOINT.

PS: 200mm SLAB ON GRADE
REINFORCE WITH 15M AT 300mm c/c
EACH WAY, TOP AND BOTTOM.
PROVIDE 50mm MUD SLAB AT U/S OF SLAB

SW10: 250mm CONCRETE SHEARWALL
REINFORCE WITH
15M AT 500 E.F. HORIZONTAL
AND 15M AT 500 E.F. VERTICAL
DOWELED FROM FOOTINGS
PROVIDE 15M AT 500 U-BARS AT
EACH END AND AT OPENINGS.
PROVIDE CLASS 'B' TENSION LAP
AT ALL SPLICE LOCATIONS.

- DOWEL ALL PIERS FROM FOOTING.
- ALL PIERS TO END AT UNDERSIDE OF SLAB ABOVE U.N.C

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.

Do not seal this drawing.

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KEYPLAN

NORTH ARROW



PROJECT TITLE
EAST HANTS AQUATIC CENTRE

Commerce Court, Elmsdale, NS

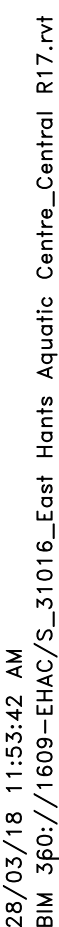
DRAWING TITLE

FOUNDATION PLAN

SCALE
As indicated

PROJECT NUMBER
31016
DRAWING NUMBER

S100

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KEYPLAN

NORTH ARROW

The key plan shows a circle with a vertical line through its center. The left side of the line is labeled 'YIELD' and the right side is labeled 'PROJECT R'. An arrow points upwards from the top of the circle, indicating North.

A circular professional engineer seal for the State of Illinois. The outer ring contains the text 'REGISTERED PROFESSIONAL ENGINEER' at the top and 'STATE OF ILLINOIS' at the bottom. The center of the seal contains the text 'DATE 2-28-2010', 'J. L. G. G. G.', and the number '10666'. A signature is written across the seal.

PROJECT TITLE	
EAST HANTS AQUATIC CENTRE	
Commerce Court, Elmsole, NS	
ORGANIZING TITLE	
SECTIONS	
SCALE	
<u>As indicated</u>	
DATE	
PROJECT NUMBER	
31016	
ORGANIZING NUMBER	

S200



Smith + Andersen

4211 Yonge Street Suite 500 Toronto Ontario M2P 2A9
416 487 8151 f 416 487 9104 smithandandersen.com

ADDENDUM

PROJECT NAME: East Hants Aquatic Centre

COMPANY: MJMA

ATTENTION: Andrew Filarski

PROJECT NO.: 17079.000.m.001

DATE: 2018-03-28

ADDENDUM NO.: M3

ISSUED BY: Syed Mateen

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 SPECIFICATIONS

1.1 Section 21 05 00.00 General Instructions for Mechanical Sections (Not re-issued)

1.1.1 Item 1.13 shall be deleted.

1.1.2 Item 1.19.2 shall be deleted.

1.2 Section 21 05 48.00 Vibration and Noise Control (Not re-issued)

1.2.1 Item 2.2.6 shall be deleted.

1.2.2 Item 2.2.10 shall be deleted.

1.2.3 Item 3.1.7 shall be deleted.

1.3 Section 21 05 73.00 Excavation and Backfill for Mechanical Work (Not re-issued)

1.3.1 Item 1.1.2 shall read as "This Section governs requirements for all excavating and backfilling Work required for the installation of buried storm drains, sanitary sewers, gas lines, water lines, and appurtenances associated with such services."

1.3.2 Item 1.1.3 shall be deleted.

1.3.3 Item 3.1.1 shall read as "All excavation and backfilling services for interior/exterior to the building shall be in accordance with Sections 31 23 00 and 31 23 33."

1.3.4 Item 3.1.2 shall be deleted.

1.3.5 Item 3.1.4.1 shall read as "Where rough excavation is carried out by Division 31, perform all layout work for trenches required under this Division, including verification of trench depths and slopes. Work in close cooperation with excavating trades that remove subgrade to within 6 in. (150 mm) of the correct and final trench depth."

- 1.3.6 Item 3.1.5.1 shall read as "All excavation in rock shall be carried out under Division 31 and is taken to a minimum of 150 mm (6 in.) below the correct pipe invert. This Division shall use a bedding material as detailed in the Standard Drawings to the correct trench invert."
- 1.4 Section 21 07 00.00 Mechanical Insulation (Not re-issued)**
- 1.4.1 Delete item 2.1.16.
- 1.4.2 Add item 3.1.26 to read as "Insulate diesel exhaust system with two layers of 50 mm (2 in.) thick calcium silicate insulation with staggered joints, wired on. Cover the entire length of the insulation with an aluminum jacket. Form expansion joints with slip joints extending 300 mm (12 in.) past the flange at each end of the joint."
- 1.5 Section 21 51 00.00 Swimming pool and Whirlpool Equipment (Not re-issued)**
- 1.5.1 Add item 2.3.9 to read as "All pool pipe penetrations shall include a waterstop flange made of a PVC ring twice the nominal pipe diameter welded to a pipe section or coupling fitting, with a sanded surface able to prevent water leaks around each penetration."
- 1.6 Section 22 11 13.00 Pipes, Valves and Fitting (Plumbing System) (Not re-issued)**
- 1.6.1 Item 2.1.22 shall read as "Exterior site sewers shall be PVC non-pressure, SDR 28, asbestos cement, or concrete of class and type to suit depth of trench and bedding. PVC non-pressure sewer piping shall be IpeX or Canron for sizes 100 mm (4 in.) to 150 mm (6 in.) conforming to CSA B182.1 ASTM D 3034. For sizes 200 mm (8 in.) to 375 mm (15 in.) shall be Canron conforming to CSA B182.2 and ASTM D3034. For size 450 mm (18 in.) to 1200 mm (48 in.) shall be IpeX or Canron conforming to CSA B182.4 and ASTM F794. Sewers shall be laid in accordance with manufacturers instructions and in accordance with National Plumbing code for Nova Scotia."
- 1.6.2 Item 2.1.23 shall read as "Exterior site PVC pressure piping shall be IpeX or Canron Blue-Brute conforming to AWWA-C900 and CSA B 137.3 standards laid in accordance with the manufacturers instructions and in accordance with with National Plumbing code for Nova Scotia ."
- 1.7 Section 23 09 00.00 Building Automation System (BAS) Open System (Not re-issued)**
- 1.7.1 Add item 1.3.8 to read as "The lighting control system shall by fully integrated with the BAS system to allow for load scheduling and status annunciation from the BAS controls terminal. Mechanical controls contractor shall allow for the software integration and programming to suit this functionality. Provide sufficient time to complete the integration process with the lighting control system including initial scheduling of the appropriate lighting zones to suit the owner's operations requirements."
- 1.8 Section 23 21 13.23 Piping Valves and Fitting (Except Plumbing) (Not re-issued)**
- 1.8.1 Add item 2.1.2 to read as "Viega products and its press joining system can be used as an alternate to welded/grooved piping system."
- 1.9 Section 23 23 00.00 Refrigerant Pipes, Valves, Fitting+Equipment (Not re-issued)**

- 1.9.1 Item 2.1.6 shall read as “Refrigerant lines shall be Type L copper tubing. Fittings shall be wrought copper. Brazing shall be done with Sil-Fos or Easy-Flo. Viega products and its press joining system can be used as an alternate to brazed piping system.”

1.10 Section 23 52 33.20 Forced draft non-condensing boiler (Not re-issued)

- 1.10.1 Item 2.1.1 shall read as “Boilers shall be Viessmann, Fulton, Buderus or De Dietrich, forced draft non-condensing oil type. Each boiler shall be A.S.M.E. tested and complete with the following....”

1.11 Section 23 77 13.00 Expansion Tanks (Not re-issued)

- 1.11.1 Item 2.1.2 shall read as “Water Pressure Reducing Valve: Watts, or Cash Acme, equal to Watts UB5, screwed with bronze body for operating pressures up to 2070 kPa (300 psi) at 71 deg. C. (160 deg. F.). Upstream from pressure reducing valve, provide a backflow preventer equal to Watts No. 9 or 909 acceptable under the requirements of the Nova Scotia Environmental Regulations. Downstream from pressure reducing valve, provide a pressure relief valve. All components of valves in contact with water shall be non-ferrous. Set pressure reducing valve at 140 kPa (20 psig) and pressure relief valve at 210 kPa (30 psig). Pipe pressure relief valve to nearest floor drain.”

1.12 Section 23 81 26.01 Variable Refrigerant Volume AC System (Not re-issued)

- 1.12.1 Item 2.1.4 shall read as “(AC) shall be Daikin, York or Mutsubishi.”

2.0 EQUIPMENT SCHEDULE

2.1 Pump schedule (Not re-issued)

- 2.1.1 See below the updated information for sump pumps.

EQUIPMENT NO.			P-SAN-B-02		P-STM-B-01	
System			Sanitary Sump		Storm Sump	
Location			Basement Filtration Room		Basement	
Service			Sanitary		Storm	
Fluid			Water		Water	
Fluid Flow	USgpm	L/min	338	1279.47	125.00	473.18
Head	ft H2O	kPa	34.50	102.95	33.10	98.77
Brake	hp	kW	7.50	3.73	3.00	2.24
Motor	hp	kW		--		--
RPM			1750		1750	
Make			Barnes		Barnes	
Model			4SE-7554L		3SE-3054L	
Variable Frequency Drives	Yes / No		No		No	
Remarks						

2.1.2

2.2 Silencer schedule (Not re-issued)

2.2.1 See below the updated information for silencer SL-AHU-01-02.

EQUIPMENT NO.			SL-AHU-01-02	
Fan Served			AHU-01	
			Return	
Airflow Rate	cfm	L/s	26,803	12,651
Type				
Diameter	In	mm		--
Width	In	mm	-	0
Height	In	mm	-	0
Length	In	mm	-	0
INSERT LOSS				
2nd Band				10
3rd Band				11
4th Band				20
Class				
Air Pressure Drop	In H2O	Pa	0.28	70
Remarks			Transitional silencer	
			refer dwg for dimension.	
			Film Lined	
Make			Vibro Acoustics	
Model			REFL-UHV-A21455	

2.2.2

2.3 Variable Refrigerant Flow System Schedule (Attached)

2.3.1 Updated equipment information included in the attached schedule.

3.0 DRAWINGS

3.1 M200 – Mechanical Schematics (included herein)

3.1.1 Pipe size updated. The revisions are bubbled for coordination purposes.

3.2 M300 – Level 1 below grade - Plumbing and Drainage (included herein)

3.2.1 Updates include floor drains to match architectural drawings. The revisions are bubbled for coordination purposes.

3.3 M301 – Level 1 - Plumbing and Drainage (included herein)

3.3.1 Updates include floor drains to match architectural drawings. The revisions are bubbled for coordination purposes.

3.4 M600 – Part Plan and Details (included herein)

3.4.1 Updates include supplementary information on domestic water line serving the exterior splash pad. The revisions are bubbled for coordination purposes.

3.5 M600A – Part Plan and Details (included herein)

3.5.1 Updates include supplementary information on domestic water line serving the exterior splash pad. The revisions are bubbled for coordination purposes.

3.6 M601 – Part Plan and Details (included herein)

3.6.1 Updates include supplementary information on domestic water line serving the exterior splash pad. The revisions are bubbled for coordination purposes.

3.7 M602 – Part Plan and Details (included herein)

3.7.1 Pipe size updated. The revisions are bubbled for coordination purposes.

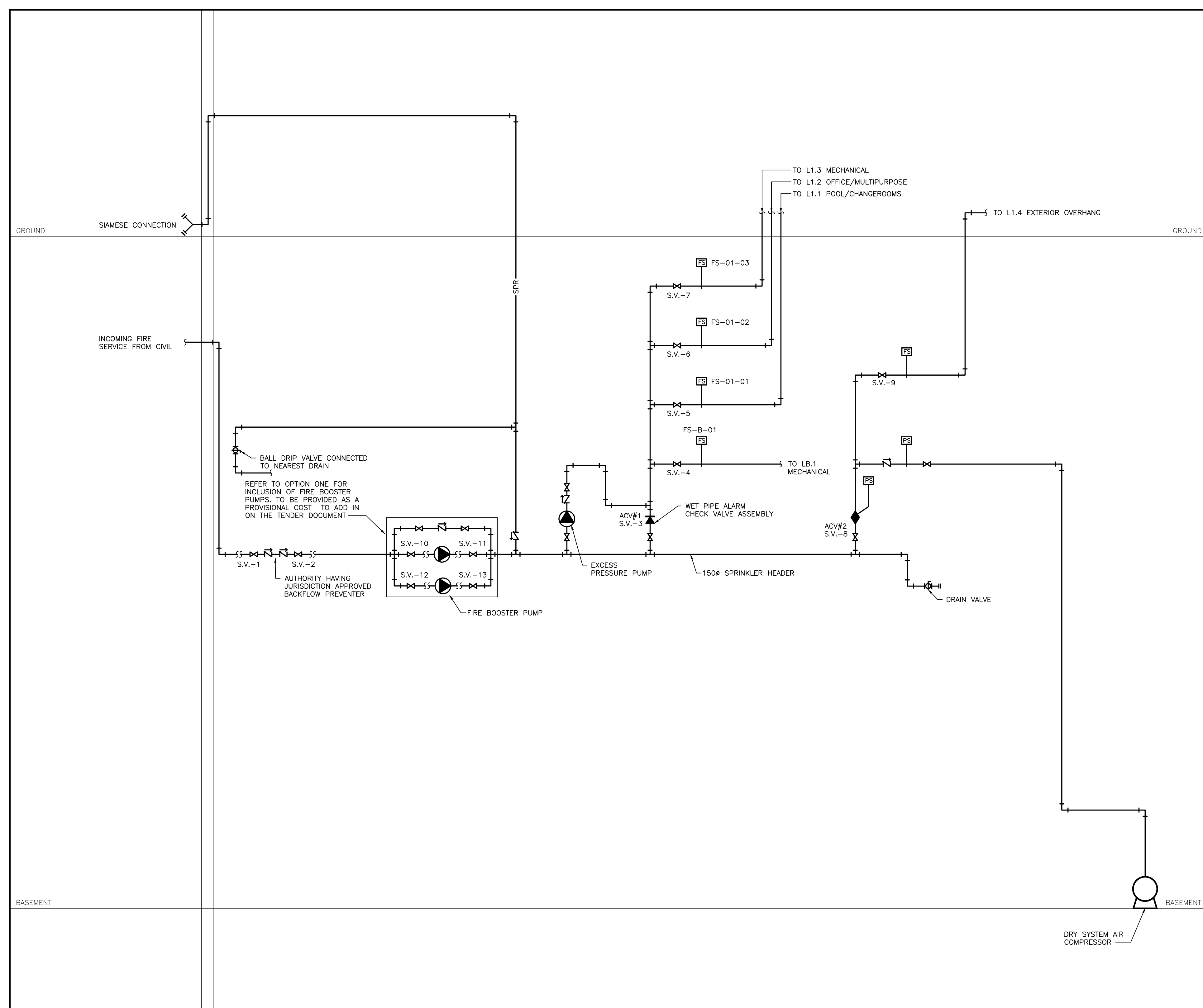
4.0 CLARIFICATIONS

4.1.1 For previously issued Mechanical Addendum M2 (Project Addendum No.5) dated March 23, 2018, items 1.1 (for Section 21 05 00.00 General Instructions for Mechanical Systems) and 1.2 (for Section 21 05 48.00 Vibration and Noise Control) have been updated. The updates are noted above for clarification.

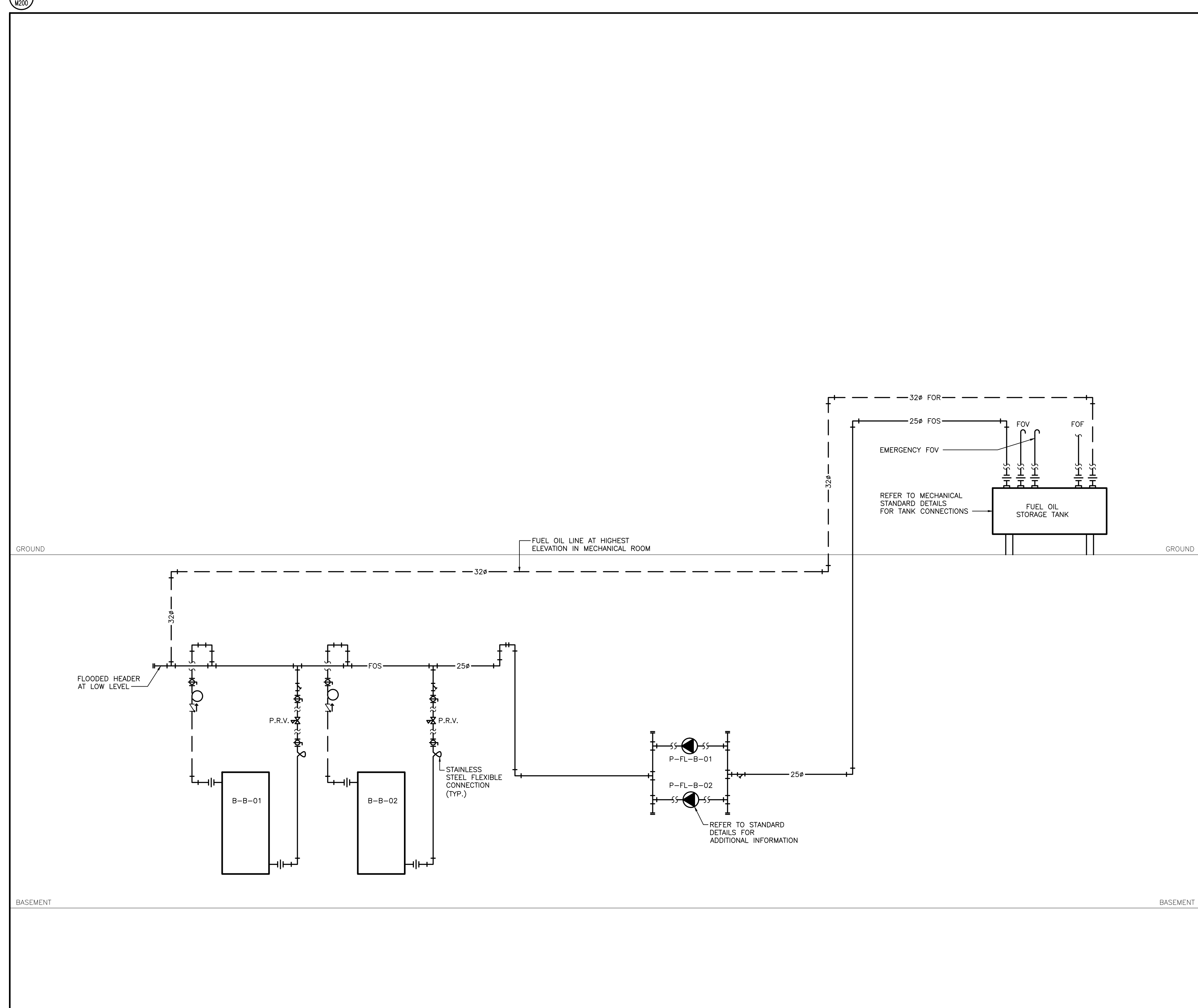
END OF MECHANICAL ADDENDUM M3

17079.000.m.001 - Addendum M3.docx

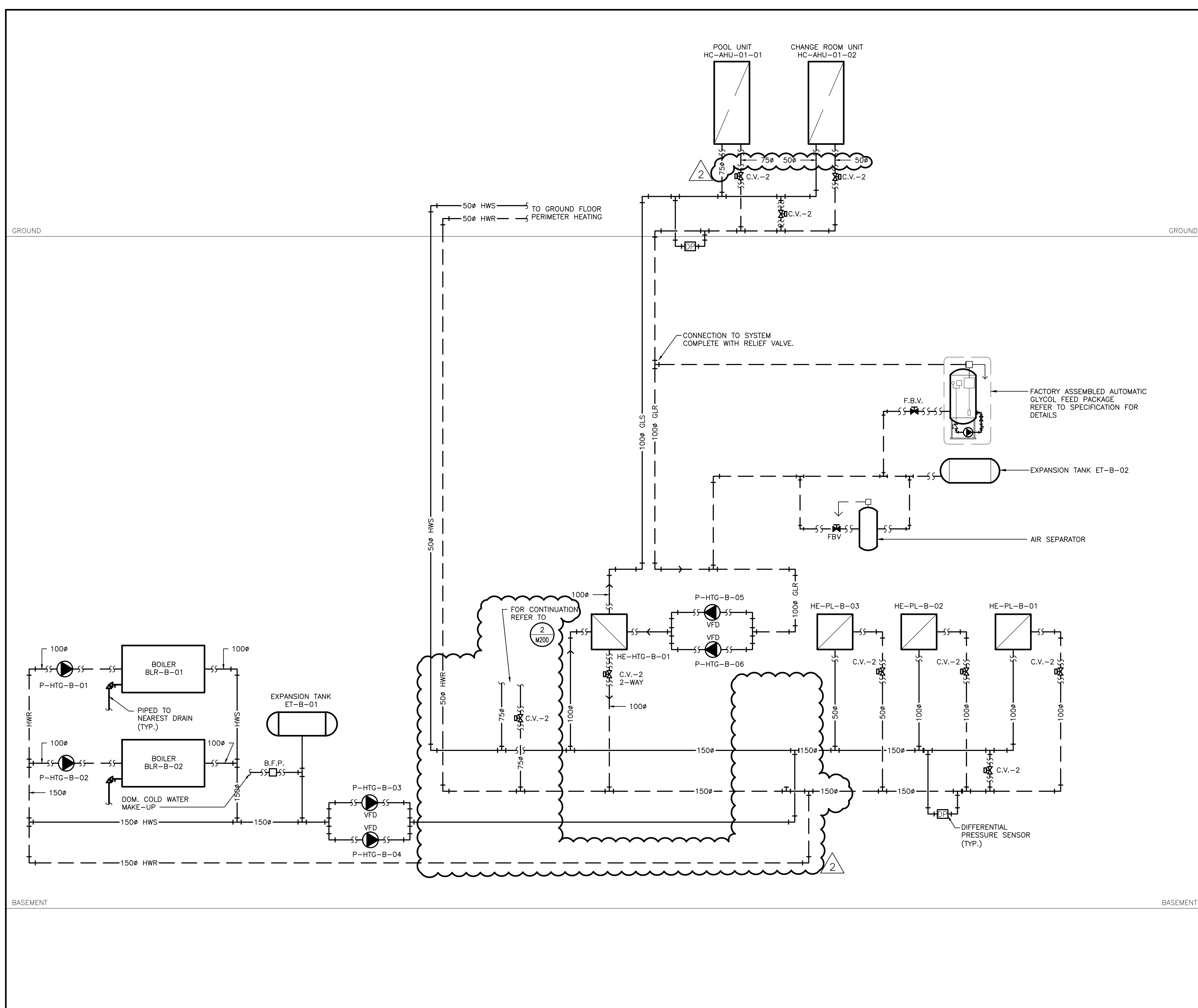
EQUIPMENT NO.			IU-01-01/02		IU-01-03		IU-01-04		IU-01-06		IU-01-08		
Make			Daikin		Daikin		Daikin		Daikin		Daikin		
Model			FXMQ30PBVJU		FXMQ15PBVJU		FXMQ07PBVJU		FXMQ24PBVJU		FXSQ05TAVJU		
Type			Ducted Concealed		Ducted Concealed		Ducted Concealed		Ducted Concealed		Ducted Concealed		
Location			--		--								
Supply Air Flow Rate (Max)	cfm	L/s	1,094	516	560	264	317	150	688	325	281	133	
External Static Pressure	In H2O	Pa	0.4	99	0.4	99	0.2	50	0.4	99	0.2	50	
Total Static Pressure	In H2O	Pa		--		--		--		--		--	
Motor	hp	kW		--		--		--		--		--	
COOLING													
Total Capacity	MBH	kW	30.0	9	15.0	4	7.5	2	24.0	7	5.8	2	
Sensible Capacity	MBH	kW	23.2	7	11.7	3	6.4	2	18.3	5	4.7	1	
Entering Air Temperature (db)	°F	°C	80.0	26.7	80.0	26.7	80.0	26.7	80.0	26.7	80.0	26.7	
Entering Air Temperature (wb)	°F	°C	67.0	19.4	67.0	19.4	67.0	19.4	67.0	19.4	67.0	19.4	
Leaving Air Temperature (db)	°F	°C		--		--		--		--		--	
Leaving Air Temperature (wb)	°F	°C		--		--		--		--		--	
HEATING													
Total Capacity	MBH	kW	34.0	10	16.5	5	8.5	2	27.0	8	6.5	2	
Entering Air Temperature (db)	°F	°C	70.0	21.1	70.0	21.1	70.0	21.1	70.0	21.1	70.0	21.1	
ESP range		Pa											
Pre-filter													
Final filter													
REMARKS			208 V/1/0.6 MCA 15A MOP		208 V/1/0.6 MCA 15A MOP		208 V/1/0.6 MCA 15A MOP		208 V/1/0.5 MCA 15A MOP		208 V/1/0.5 MCA 15A MOP		
ASSOCIATED CONDENSER			CU-01-01										
Model			REYQ96TAYCU										
Total Cooling Capacity	MBH	kW	90.0	26									
Total Heating Capacity	MBH	kW	76.0	22									
Ambient Air Temperature	°F	°C	95.0	35.0									
ELECTRICAL DATA													
Minimum Circuit Ampacity			38										
Volts/Phase/Cycle			575/3/60										
			45A Fuses										
REMARKS													



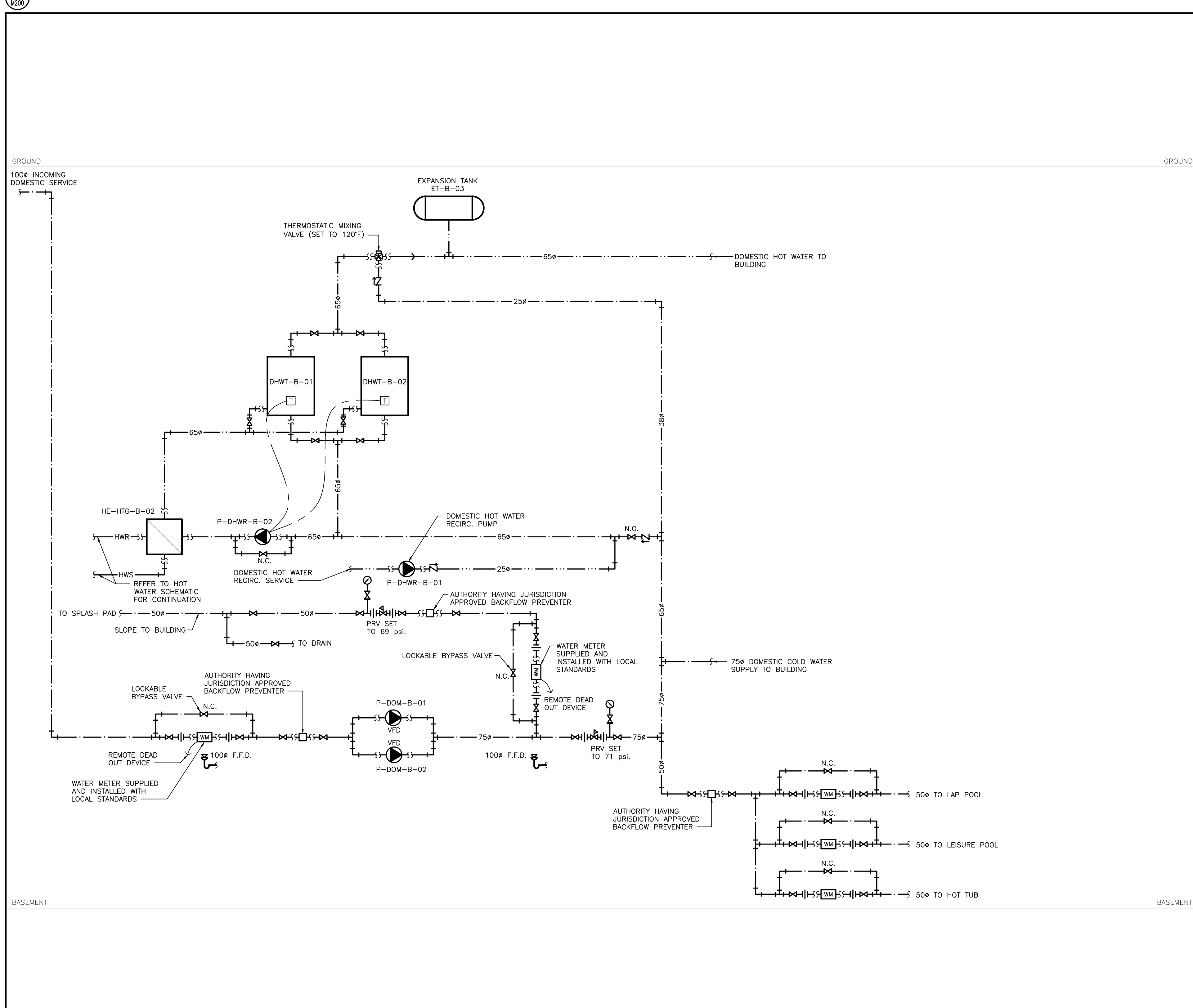
3 SPRINKLER SCHEMATIC



4 FUEL OIL SCHEMATIC



1 HEATING WATER SCHEMATIC



2 DOMESTIC WATER SCHEMATIC

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.

Do not scale this drawing.

[illegible]

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Municipality of East Hants

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NORTH ARROW

SEAL



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PROJECT TITLE

EAST HANTS AQUATIC CENTRE
COMMERCE COURT, ELMSDALE, N.S.

DRAWING TITLE

MECHANICAL SCHEMATICS

SCALE
N.T.O.

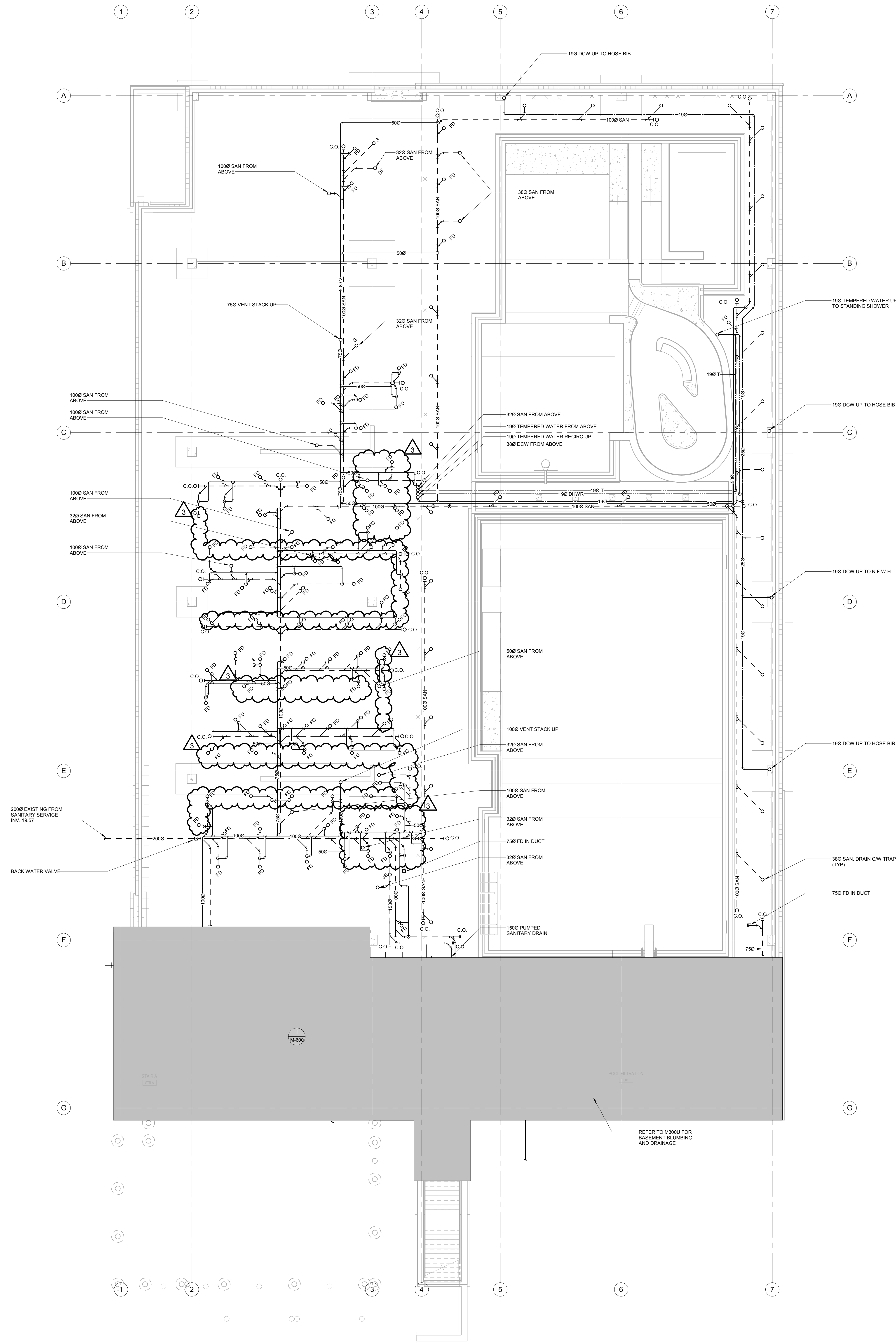
N.T.S.

DATE
2018-03-01

PROJECT NUMBER

17079

M200



1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS ARE NECESSARY TO OBTAIN THE BEST CONDITIONS AND ARE TO BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
2. FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON FLOOR PLANS SHALL BE CORRELATED TO BE APPLICABLE TO THE SCHEMATIC SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.

VERIFY THE STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

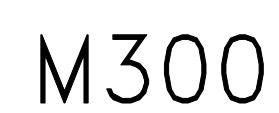
1. ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 100MM (4 IN.) UNLESS INDICATED OTHERWISE.
2. ALL ROOF DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP PRIMERS.
3. ALL STORM DRAINAGE BELOW GRADE SHALL BE MINIMUM 100MM (4 IN.) UNLESS INDICATED OTHERWISE.
4. ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES SHALL BE MINIMUM 3/4 (19 MM) IN UNLESS INDICATED OTHERWISE.
5. ALL PIPING SHALL BE OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS OTHERWISE NOTED.
6. ALL STEEL DECK SHALL BE PROTECTED WITHIN STRUCTURAL STEEL SHEAR WHERE PRACTICAL AND IN EXPOSED OFFICE AREAS.
7. ALL STEEL DECK DRAINS TO BE GROUNDING.
8. PROVIDE TRAPS FOR ALL FLOORDRAINS, SINKS, LAVES ETC. AS PER BUILDING CODE REQUIREMENTS

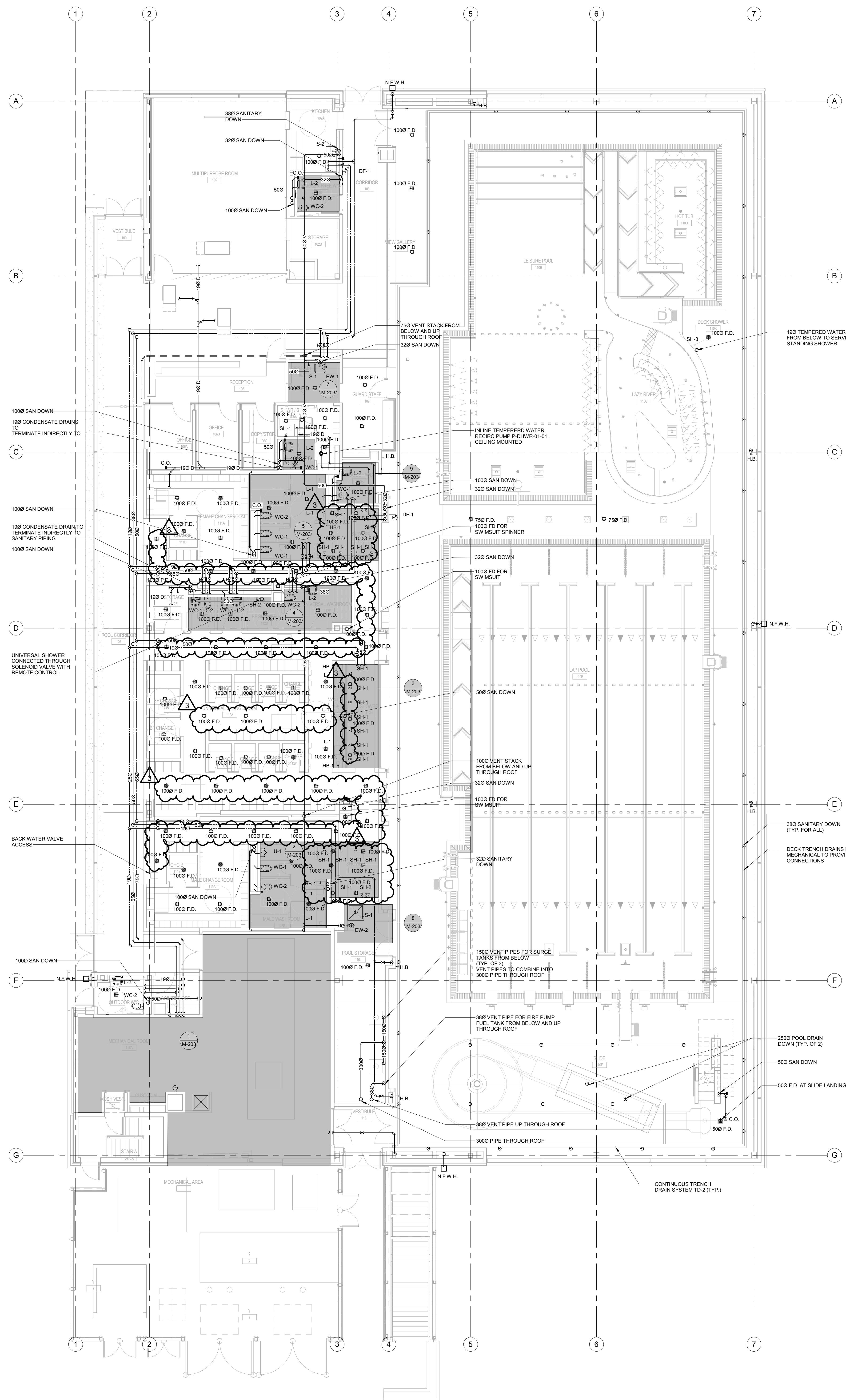
1. ALL POOL DECK DRAINS SHALL BE GROUNDED.
2. ALL EMERGENCY SHUTOFF BUTTONS SHALL TURN OFF ALL RECIRCULATION PUMPS INCLUDING FEATURE PUMPS.

[illegible]

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GENERAL NOTES

1. DO NOT SCALE DRAWINGS. THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR SPECIFIED THAT ARE NOT DEFINITELY FIXED BY DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATIONS ARE NECESSARY TO OBTAIN THE BEST CONDITIONS AND ARE TO BE DETERMINED BY THE SITE CONDITIONS. REVIEW ALL REVISIONS WITH THE CONSULTANT.
 2. FLOOR PLANS SHALL BE READ IN CONJUNCTION WITH SCHEMATICS. INFORMATION SHOWN ON FLOOR PLANS SHALL BE CORRELATED TO BE APPLICABLE TO THE SCHEMATIC SYSTEM SCHEMATIC AND VICE-VERSA TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- VERIFY THE STRUCTURAL INTEGRITY OF ALL TEMPORARY AND PERMANENT OPENINGS. ADDITIONAL FRAMING TO ENSURE STRUCTURAL INTEGRITY SHALL BE INCLUDED UNDER THIS CONTRACT.

PLUMBING AND DRAINAGE NOTES:

1. ALL SANITARY DRAINAGE BELOW GRADE SHALL BE MINIMUM 100MM (4 IN.) UNLESS INDICATED OTHERWISE.
2. ALL ROOF DRAINS SHALL BE COMPLETE WITH TRAPS AND TRAP PRIMERS.
3. ALL STORM DRAINAGE BELOW GRADE SHALL BE MINIMUM 100MM (4 IN.) UNLESS INDICATED OTHERWISE.
4. ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER PIPES SHALL BE MINIMUM 3/4 (1 1/2 IN.) UNLESS INDICATED OTHERWISE.
5. ALL PIPING SHALL BE OVERHEAD, TIGHT TO UNDERSIDE OF THE STRUCTURE WITH SUFFICIENT ROOM FOR INSULATION UNLESS OTHERWISE NOTED.
6. ALL STEEL DECK SHALL BE PROTECTED WITHIN STEEL STRUCTURE WHERE PRACTICAL AND IN EXPOSED OFFICE AREAS.
7. ALL STEEL DECK DRAINS TO BE GROUNDING.
8. PROVIDE TRAPS FOR ALL FLOORDRAINS, SINKS, LAVES ETC. AS PER BUILDING CODE REQUIREMENTS

POOL NOTES:

1. ALL POOL DECK DRAINS SHALL BE GROUNDED.
2. ALL EMERGENCY SHUTOFF BUTTONS SHALL TURN OFF ALL RECIRCULATION PUMPS INCLUDING FEATURE PUMPS.

[illegible]

MJMA

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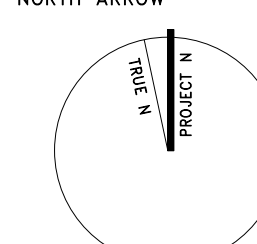
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KEYPLAN

NORTH ARROW



Smith & Anderson

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2A9
1416 487 8151 f 416 487 9104

PROJECT TITLE

East Hants Aquatic Centre

Commerce Court, Elmsdale, NS

DRAWING TITLE

LEVEL 1 PLUMBING AND DRAINAGE

SCALE

1 : 100

DATE
2018-03-28

PROJECT NUMBER

M301



Smith + Andersen

1969 Upper Water Street Suite 1905 Halifax Nova Scotia B3J 3R7
902 334 0335 smithandandersen.com

ADDENDUM

PROJECT NAME: East Hants Aquatic Center

COMPANY: MJMA / TEAL

ATTENTION: Troy Wright / Will Snow

PROJECT NO.: 17079.000

DATE: 2018-03-28

ADDENDUM NO.: E-03

ISSUED BY: Tyler Hughes

The following amendments are hereby made as part of the Contract Documents. The following revisions and/or additions shall be made to contract documents and the cost shall be included in the Tender Price.

1.0 SPECIFICATIONS

1.1 Refer to Specification Section 26 27 13.00 – Electronic Metering (included herein):

1.1.1 The following items shall be revised as per attached:

- .1 [2.1 inclusive]
- .2 [2.2.1]
- .3 [3.3.1]

2.0 DRAWINGS

2.1 Refer to E002 – STANDARD DETAILS (not included):

2.1.1 Add detail 7 “PARKING LOT LIGHT STANDARD BASE” to drawing E002 (included herein).

- .1 Detail 7/E002 shall apply to all parking lot light standard installations. Refer to site plan for quantity.

2.1.2 Replace detail 8 with: “2X4 CONCRETE ENCASED DUCT BANK – TRANSFORMER SECNDARY”.

- .1 Secondary duct bank from utility padmount transformer shall be 2x4 cell with 4” ducts.
- .2 Refer to site plan (included herein) for revised duct bank routing.

2.1.3 Add detail 10 “UNIVERSAL WASHROOM PANIC SYSTEM DETAIL” to drawing E002 (included herein).

- .1 Detail 10/E002 shall apply to all universal washroom panic systems.

2.2 Refer to E100 – ELECTRICAL SITE PLAN (included herein):

- 2.2.1 Modify orientation of utility pad mounted transformer. Transformer shall be rotated 90 counter-clockwise to new position as shown. Primary and secondary duct banks shall be modified to suit new transformer and pad orientation.
- 2.2.2 Revise note N-6 to refer to revised detail 8/E002; 2x4 Concrete encased duct bank.
- 2.2.3 Clarification: Note N-7 refers to 1x2 communications duct bank, while detail indicates 1x3. Communications duct bank from LEMC shall be 1x2.

2.3 Refer to E200 – SINGLE LINE AND GROUNDING RISER DIAGRAM (not included):

- 2.3.1 In panel DP-BEA, revise 20A/3P breaker to 25A/3P breaker feeding duplex pumps P-SAN-B-01/02.

2.4 Refer to E300 – POWER AND SYSTEMS (not included):

- 2.4.1 Add note N-6 to read:
 - .1 “PROVIDE CONDUIT INFRASTRUCTURE FROM “MASTER LOCK” PUSHBUTTON LOCATION BEHIND RECEPTION COUNTER TO FRONT ENTRANCE ACCESS CONTROL DOOR CONTROLLER. MASTER LOCK BUTTON IS INTENDED TO TRIGGER THE BUILDING’S ACCESS CONTROL SYSTEM INTO LOCKED INGRESS MODE.”
 - .2 Note N-6 shall be referenced on the floorplan directed to the “MASTER LOCK” push button behind the reception counter.

3.0 CLARIFICATION

- 3.1.1 **Tender Question:** “Single line diagram shows a basic owner’s check meter whereas written spec is referencing a fully blown MC Approved Metering System for billing. Which is required?”
 - .1 **Response:** The electronic meter is intended to be an owner’s check meter with premium metrics such as THD, Power Factor, and event recording.
- 3.1.2 **Tender Question:** [Electronic Metering] “If only a basic Owner’s Check Meter, Please provide Metering parameters required including preferred communication medium/protocol.”
 - .1 **Response:** Meter shall be capable of premium metrics such as THD, Power Factor and electrical event recording. Communication protocol shall be BACNet for integration with BAS.
- 3.1.3 **Tender Question:** [Electronic Metering] “Warranty is listed as 24-month. Industry standard warranty is 18-month. Please confirm warranty preference.”
 - .1 **Response:** Warranty shall be 18-month. Refer to attached specification.
- 3.1.4 **Tender Question:** “What is required for timeclock ‘T1’ control? There is no mention of timeclocks elsewhere in the tender documents.”
 - .1 **Response:** Timeclock ‘T1’ control shall be a virtual system programmed through the scheduling capability in the lighting control system integrated with the building

automation system. No additional hardware required for the "timeclock T1" function.

- 3.1.5 **Tender Question:** "What is required for the panic alarm system? How are the devices connected? What cabling is required? Which devices require a 120V feed? What are the specifications of the system?"

.1 **Response:** The universal washroom panic alarm system shall be as per the new detail 10 on drawing E002. Refer to item 2.1.3 above and attached detail for complete system description.

- 3.1.6 **Tender Question:** "What is required for the emergency stop system? Am I responsible for just the conduit of this system? Do any device require a 120V feed?"

.1 **Response:** The electrical contractor shall install the conduit infrastructure to the emergency stop locations only. All pool equipment power and controls wiring shall be by the pool contractor. Coordinate exact control points for conduit infrastructure with pool contractor.

- 3.1.7 **Tender Question:** "What is required for the barrier free doors? Where is the 120V feed to be fed from and what's the circuit? Are there specifications?"

.1 **Response:** Barrier free doors shall be circuited to the nearest housekeeping receptacle. For the barrier free washrooms, this shall be the receptacle circuit located at the sink. For the main entrance doors, this shall be the RP-BG.14. For the viewing gallery doors, this shall be RP-GB.21.

- 3.1.8 **Tender Question:** "As per section 26 05 34, item 3.1.6 – could you please advise the areas in the building that's considered corrosive areas."

.1 **Response:** The areas in the building that are considered corrosive shall be the Natatorium hall, mechanical room 116A, and the pool filtration room 001.

END OF ELECTRICAL ADDENDUM

17079.001 - ADD E-03.docx

Electronic Metering

PART 1 - GENERAL

1.1 Work Included

- .1 Section 26 05 01.00 - GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.
- .2 Section 26 05 04.00 – SUBMITTALS/SHOP DRAWINGS.
- .3 Section 26 05 34.00 – CONDUITS, CONDUIT FASTENERS AND FITTINGS.
- .4 Section 26 05 21.00 – WIRE AND CABLE 1000V.

1.2 Standards

- .1 Except as noted by governing codes and by the Contract Documents, comply with the applicable provisions and recommendations of the Canadian Electrical Manufacturer's Association, CSA and Measurement Canada.
- .2 The system shall be bench certified/approved by Measurement Canada for legal trade under the "Electricity and Gas Act" of Canada.
- .3 At the completion of installation, the system shall be field reviewed to verify compliance with Measurement Canada Specifications.

1.3 Shop Drawings And Product Data

- .1 Submit Shop Drawings and product data in accordance with Section 26 05 04.00 – SUBMITTALS/SHOP DRAWINGS.
- .2 Submit shop drawings and manufacturers data for the component items shown and specified under this section of the specification.
- .3 Do not supply any equipment to this project prior to shop drawing review by the Consultant.
- .4 Shop drawings will be stamped and signed by the contractor prior to submittal, allow a minimum of one week for review of the shop drawings submitted.
- .5 At the completion of the Project, As-Built Drawings will be submitted by the System Supplier/Manufacturer, who will prepare a complete manufacturer's manual including but not limited to all as-built wiring diagrams and all required Measurement Canada certifications and test results including equipment bench test and suite to breaker installation verification.

1.4 Description Of System

- .1 Work under this section is subject to the requirements of Section 26 05 01.00 - GENERAL INSTRUCTIONS FOR ELECTRICAL SECTIONS.
- .2 Provide computerized metering in accordance with the Contract Documents. The system to come complete with all parts necessary to operate this system.
- .3 Not Used.
- .4 The metering panels shall monitor a minimum of 12 three phase four wire customers or 18 two phase three wire loads.
- .5 The units to be mounted in a single CSA Type 2 sprinkler proof enclosure either located next to a panel or built into the raceway on the side of a panel.

Electronic Metering

- .6 Metering panels communicate over their own Local Area Network, which can either report direct to an onsite computer, or to remote computers using telephone or Ethernet/WAN/Internet communications.

PART 2 - PRODUCTS

2.1 General

- .1 Provide a single, fully digital electrical measurement system for a single-tenant building incorporating complete metering, at several voltages and amperages. The system shall have four major components: a) the meter/communications modules, b) a set of current transformers or transducers sized to the load to provide the metering "node", c) potential transformers (if applicable) for line voltage measurement and d) communications interface to allow download of meter data to a remote computer. The metering panel must have its own local display for reading the meters connected to it.
- .2 Local area network communications shall interface with one of the following for remote data collection: Telephone (POTS connectivity), LAN Ethernet, WAN Ethernet, Internet, BACnet or other building automation connectivity.

2.2 Meters

- .1 Installed near the building's main entrance switchboard. Meter to accurately measure electricity data at the main entrance location and store the information in non-volatile, solid state memory. The metering panel shall be networked to the BAS system to allow remote computerized access for remote meter reading.
- .2 The meter shall be able to be used on poly-phase services. Wiring includes: connection of the meters to the line voltage, connection of the through-type current transformers/transducers installed at the circuit breakers, connection of network communications (wired or, if applicable, wireless communications devices).
- .3 Application Voltages:
The metering panel will accommodate all approved North American Distribution voltages up to 600 Volts. For higher voltages, potential transformers shall be used.
- .4 Operating Frequency: 50/60 Hz.
- .5 Power Factor Range: 0.5 to 1.0 lead/lag.
- .6 Power Supply Requirements: Self-powered.
- .7 Current Ranges: 100/200/400 Amps or 5/10 AMP interface (services over 400A or critical loads)
- .8 Accuracy: +/- 0.5% of 100% registration @ 1.0 pf, 1% to 100% load to meet: Measurement Canada.
- .9 Operating Temperature Range: -40 degrees to +55 degrees C.
- .10 Dimensions: Component specific. Multi-customer metering panels shall provide a more compact installation than a socket-type meter installation.
- .11 Meters and their elements must conform to the Measurement Canada "Standard Drawings for Electrical Metering Installations" to ensure accurate metering. All configurations shall come with current transformers/transducers required in the "Standard Drawings".

Electronic Metering

2.3 Current Transformers/Transducers

- .1 Provide all current transformers/transducers associated with the metering system.
- .2 Loads up to 400 amps shall have precision current transformers/transducers with an accuracy exceeding that specified in Measurement Canada approval.
- .3 Loads above 400 amps shall have Current Transformers rated ANSI Class 0.3 at a burden B0.1 connected to a precision Current Transformer compatible with the metering equipment.

2.4 Potential Transformers

- .1 The Potential transformers, if required, shall be mounted in a separate enclosure rated for the size and capacity necessary to feed the number of meters shown as per the drawings and rated by the manufacturer. Potential transformers must be Measurement Canada approved for revenue metering (independently or as part of system approval).
- .2 Potential transformers shall be factory assembled and come complete with electrical disconnects and fuses mounted in a separate enclosure.

2.5 Not Used.**2.6 Not Used.****2.7 Not Used.****2.8 Wiring**

- .1 Provide all wiring in conduit as required to operate the entire system. Wiring to be provided as per manufacturer's instructions. All power wiring to be in conformance with the electrical code.

2.9 Manufacturers

- .1 The following are acceptable manufacturers:
 - .1 CARMA Industries Inc.
 - .2 Intellimeter Canada Inc.
 - .3 Schneider Electric

PART 3 - EXECUTION**3.1 Meter Installation**

- .1 It is recommended that all metering equipment is installed in electrical closets or electrical rooms whenever possible.
- .2 Remove sub-panel/breaker-panel cover.
- .3 Wire bending space should be in compliance with Canadian Electrical Code Section 12. Verify that Current Transformers/Transducers, Power Taps, and wiring can be installed without crowding the subpanel.

Electronic Metering

- .4 Verify that the Current Transformers/Transducers can be installed with a minimum 1/2 inch clearance to uninsulated live parts in subpanel, and without bearing against dead metal parts.
- .5 Verify that power is 120V, 120/280V, 120/240V, 240/416V or 416V, 277/480V or 480V, 347/600V or 600V. Verify that neutral is available if applicable.
- .6 Provide a dedicated 15A, 120VAC circuit for each panel and equipment from the nearest available panel. Provide a new breaker in the respective panel.
- .7 Verify that the meter is the right size and voltage for the installation.
- .8 Secure metal conduit to sub-panel. Use insulating bushing. Reliable grounding is required. Locknuts must be tightened enough to pierce paint in cabinet.
- .9 Secure meter enclosure in or on wall, according to location, and connect conduit using locknut. Attach the enclosure to a wall stud using screws to provide equivalent support.
- .10 Install CT's and PT's per manufacturer's recommendations.
- .11 Interconnect all metering panels with wiring in conduit as per manufacturer's instructions. Provide connection of Metering Panels to remote accesses connection: telephone, Ethernet connection, etc.
- .12 Replace sub-panel/breaker-panel covers.
- .13 Contact Electrical Safety representatives for verification of compliance to governing electrical codes.
- .14 Contact Measurement Canada or accredited service provider for installation verification. Installation verification shall include a tenant-to-breaker check. Electrical subcontractor must be available for verification support.

3.2 Calibration And Maintenance Service

- .1 All meters shall be Measurement Canada bench verified, and manufacturer will provide all Inspection/Verification Certificates within as-built documentation in order to provide a complete operational system.
- .2 The manufacturer shall provide pricing for billing services, on a per meter price, for collection of tenant sub-metered energy for return to building management or local distribution company (LCD) to apply against facility energy costs.
- .3 The manufacturer shall detail remote connectivity requirements (telephone, High-Speed Internet, etc.). Building owner/property manager shall provide necessary remote connectivity to allow for remote billing services, if required.
- .4 Manufacturer will include all required Measurement Canada installation inspections in pricing. All appropriate equipment is to be labelled with the respective certification labels.
- .5 Manufacturer to register the system with Measurement Canada and work with the Owner to obtain all required information to do so.
- .6 After the specified Measurement Canada approval period (seal period typically 6 years), the manufacturer shall provide options for maintaining Measurement Canada Approval. This may include, but not limited to: Onsite Re-verification or removal of existing equipment and replacement with Measurement Canada verified equipment.

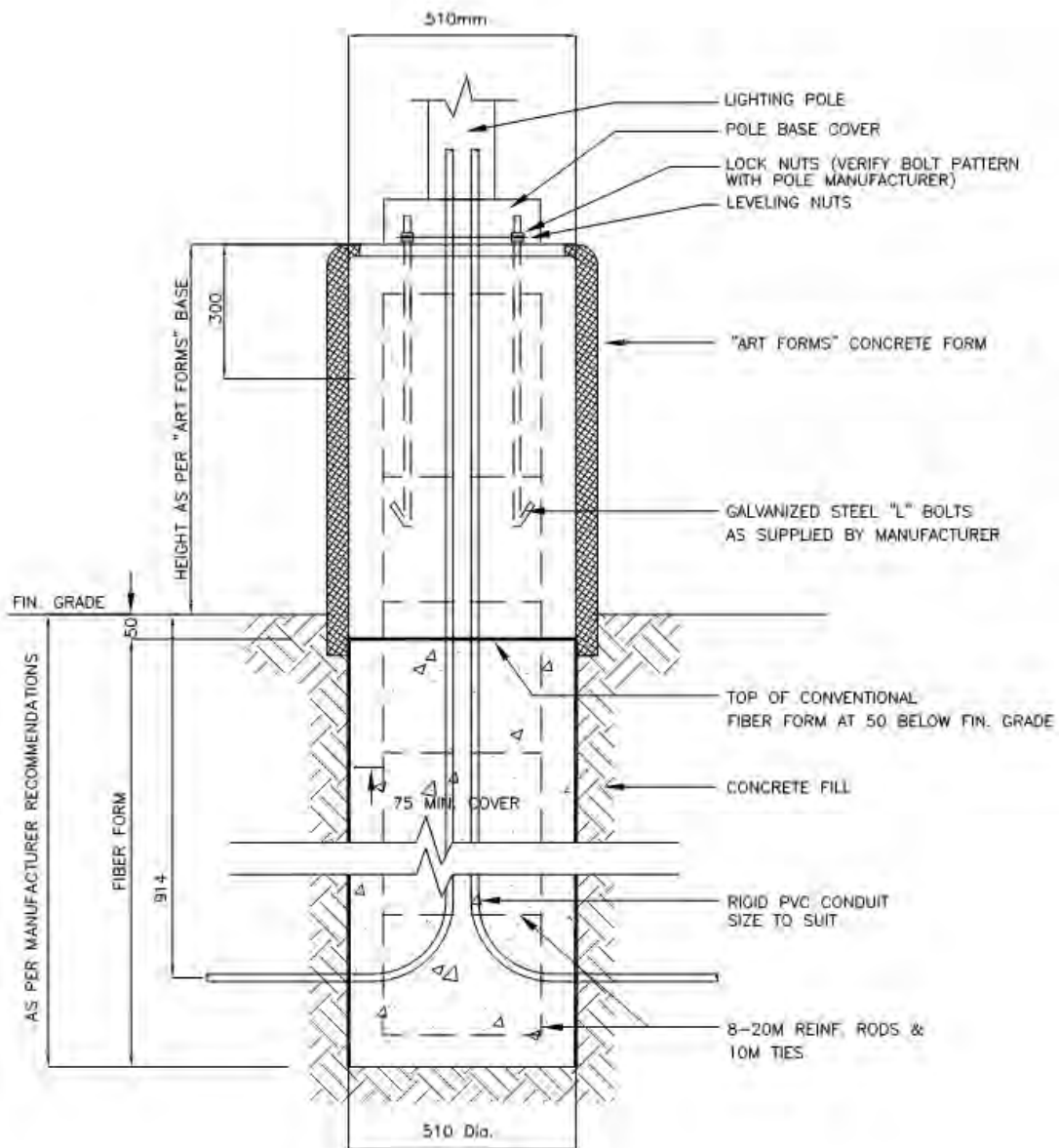
Electronic Metering

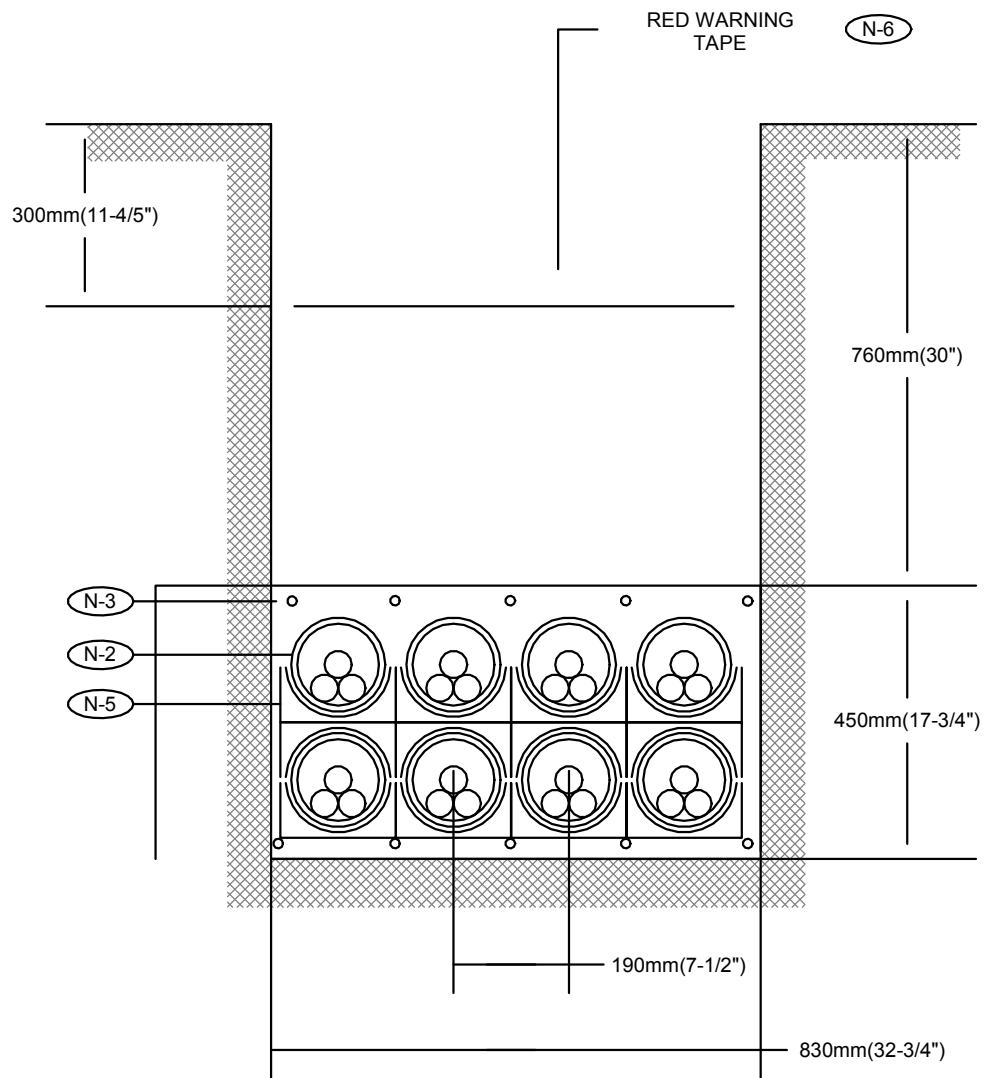
- .7 The manufacturer shall provide pricing to the Owner for system maintenance, repair and/or replacement service to the extent that covered by the warranty.

3.3 Warranty

- .1 All equipment shall be free from defect in materials and workmanship under normal use and service for the period of eighteen (18) months from the date of acceptance. .

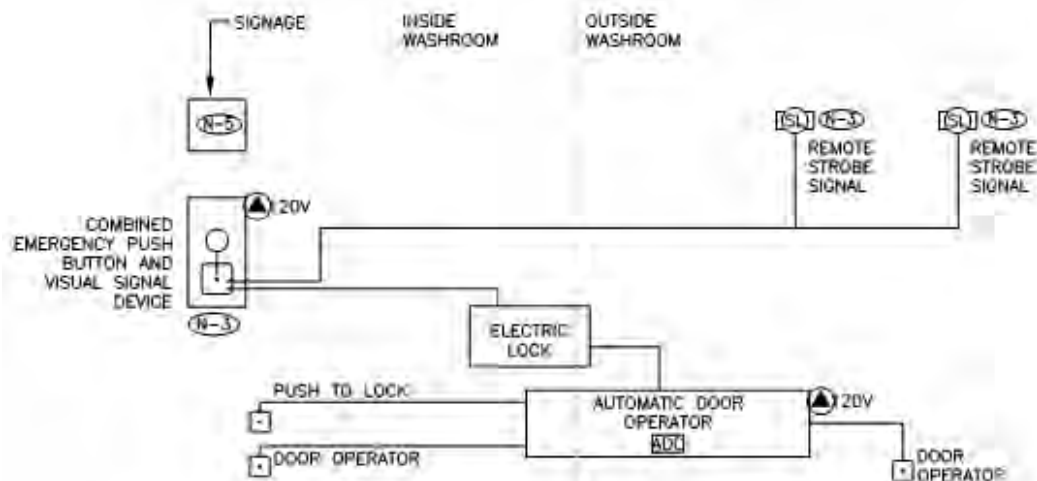
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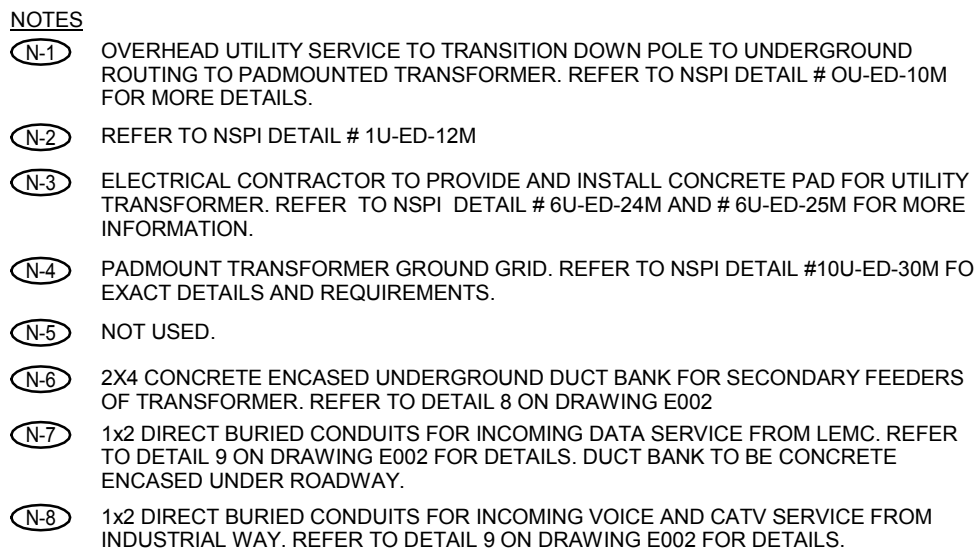


NOTES:

- (N-1) 9mm (3/8") POLYPROPYLENE ROPE REQUIRED IN ALL DUCTS.
- (N-2) 103mm (4") I.D. DUCTS IN 20 MPa CONCRETE.
- (N-3) 16mm (1/2") REINFORCING RODS
- (N-4) PROVIDE BELL ENDS AT TERMINATION OF ALL DUCTS
- (N-5) PRE-FABRICATES DUCT SPACER AND HOLDERS
- (N-6) RED WARNING TAPE TO EXTEND THE FULL WIDTH OF TRENCH




- (N-1) MINIMUM SIZE CONDUITS SHALL BE 21mmC (3/4") UNLESS OTHERWISE NOTED.
- (N-2) ALL PUSH BUTTONS ARE TO BE MOUNTED AT 1050mm ABOVE FINISHED FLOOR AND ARE TO BE OPERABLE USING A CLOSED FIST.
- (N-3) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL COMBINATION EMERGENCY PUSH BUTTON AND VISUAL SIGNAL DEVICE INSIDE OF WASHROOM. INTEGRAL VISUAL DEVICE TO ACTUATE WHEN EMERGENCY BUTTON IS PRESSED. EMERGENCY BUTTON TO BE MUSHROOM STYLE AND LATCHING TYPE, SUCH THAT VISUAL INDICATION WILL REMAIN ACTIVATED ONCE PRESSED. MUSHROOM STYLE BUTTON TO BE TWIST-TO-RELEASE TYPE. PUSH BUTTON TO ALSO ILLUMINATE IN PARALLEL ALL REMOTE STROBE LIGHT VISUAL SIGNALS AS SHOWN ON FLOOR PLANS.
- COMBINATION DEVICE SHALL BE 24V DC STYLE FOR EASY INTEGRATION WITH WASHROOM DOOR ELECTRIC LOCK. WASHROOM DOOR ELECTRIC LOCK TO BE RELEASED WHEN EMERGENCY BUTTON IS PRESSED TO ALLOW MANUAL ACCESS TO WASHROOM TO PROVIDE ASSISTANCE. DOOR OPERATOR SHALL NOT AUTOMATICALLY OPEN DOOR.
- SUBMIT SHOP DRAWINGS FOR CONSULTANT REVIEW PRIOR TO ORDERING.
- (N-4) ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT, WIRING, POWER SUPPLIES (24VDC) AND CONNECTIONS DETAILED ABOVE FOR ALL UNIVERSAL WASHROOMS INDICATED WITH "PANIC" SYSTEMS. ALL WIRING SHALL BE INSTALLED IN CONDUIT.
- (N-5) ELECTRICAL CONTRACTOR TO PROVIDE AND INSTALL A LAMACOID SIGN ABOVE THE EMERGENCY BUTTON THAT READS "IN THE EVENT OF AN EMERGENCY, PUSH BUTTON TO ACTIVATE VISUAL SIGNAL TO STAFF AND UNLOCK DOOR." LETTERS ON LAMACOID MUST BE AT LEAST 19mm HIGH WITH A 5mm STROKE. SUBMIT SHOP DRAWINGS FOR CONSULTANT REVIEW PRIOR TO ORDERING.



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DRAWING TITLE
ELECTRICAL SITE PLAN

SCALE
1 : 300

DATE
2017/04/20

PROJECT NUMBER
17079

DRAWING NUMBER

Bidders's Questions & Responses

1. BIDDER'S QUESTIONS & RESPONSES

.1 Question:

"I would like to quote on the ceiling lift portion of this job section 11 70 00. I have been through the drawings a few times and still can't seem to find drawings with the track layout. Would you happen to know which drawings would show track location? Also, I would like to point out that the BHM V4 ceiling lift spec'd for this job hasn't been in production for over 10yrs. BHM was purchased by Arjo Huntleigh. The BHM V4 is now called the Arjo Maxisky, exact same lift just a different colored casing."

Response:

Reference drawing A150 "RCP AND TYP CEILING DETAILS "- Room 112B "BF SHOWER" and Detail 4/A361.

Refer to attached Addendum for further information regarding products.

.2 Question:

"Is there an equipment schedule available for the mechanical section?"

Response:

Equipment schedules for Pumps, Heat Exchangers, AHU, Heaters, and other mechanical elements have been provided in spreadsheets which is included at the end of the specification.

.3 Question:

"Sprinkler Systems 21 13 00.00: In the spec section, 2.1.2.1 it indicates black steel Sch 40. In section 2.1.2.3 it mentions galvanized pipe. Does all pipe have to be galvanized or just the areas in section 2.1.2.4, and if so can the galvanized pipe be Sch 10 or does it also have to be Sch 40?"

"Section 2.1.30 indicates waxed coated heads can the Victaulic VC 250 be used as an alternate?"

Response:

As already noted in item 2.2.1 the piping needs to be Sch 40, even for Dry system. Waxed coated heads shall be ULC listed.

.4 Question:

"Spec 21 05 29.00, item 1.1.3 Requirement for engineered drawings for pipe support systems would normally be provided by Consultant. Please confirm Mechanical Contractor to include this."

Response:

The Mechanical Contractor is required to submit detailed shop drawings showing all anchors and guides for all systems with the potential for thermal expansion/contraction and/or loads due to weight or thrust. The drawings shall bear the signed seal of a Professional Engineer licensed to practice in the appropriate discipline and place of work.

.5 Question:

Bidders's Questions & Responses

"For the insulation, can we have a clarification as to where batt insulation is acceptable? (INS 21 and "NS 60 both appear to call for Roxul / rock wool insulation)."

Response:

INS-20 and 21 are not specifically called out in drawings though are retained for miscellaneous conditions. INS-60 is part of PG3A assembly.

A revision to INS-60 is provided in attached addendum.

.6 Question:

"Do we have rough start and finish dates on this project?"

Response:

Start date depends on successful Bidder. The Bidder is to provide information on project duration in Section 00 41 13 1.2.5 - Stipulated Price Bid Form.

.7 Question:

"What is the depth of the splashpad plumbing and drainage trenching shown on sheet M601? Is there a standard trench detail available showing the depth and bedding gravel requirements? I assume it has to be 1.7m bury to avoid the pipe freezing."

Response:

The plumbing water supply piping shall be below the frost line. Refer section 21 05 73.00 "Excavation and Backfill" for Mechanical work.

.8 Question:

"Please provide a standard trench detail for the under-slab HVAC pipe per sheet M400."

Response:

Refer to architectural and structural drawings for detail on buried duct strapped to concrete slab.

.9 Question:

"In section 03 30 00, item 3.14.2.3 refers to a temperature monitoring system. Please confirm that the cost of this is included in the testing by the owner as identified in item 3.16.2."

Response:

No, the costs for temperature monitoring system is to be carried by the Bidder.

.10 Question:

"In section 04 05 00, item 3.10 indicates for the mason to provide lateral supports and section 05 12 00, item 3.5.2 and item 2.10 in section 05 50 01 indicates the metals subcontractor is to provide. Please clarify."

Bidders's Questions & Responses

Response:

The installation of lateral masonry supports involves coordination between multiple trades. The specifications have been revised by attached addendum to clarify that Section 05 50 00 is to provide the lateral supports with installation coordinated by Sections 04 05 00 and 05 12 00.

.11 Question:

"Could you please identify the spacing of the 22mm hat bars in Wall Types W3, W3B and W3C identified on drawing A010?"

Response:

Metal Cladding Systems are specified in Section 07 46 19. Paragraph 1.3.3 states requirement for engineered shop drawings and paragraph 2.2 states Performance/ Design Requirements. The design of the substructure is the responsibility of the Contractor.

.12 Question:

"Did you want the supply air that is exposed and serving the leisure pool insulated?"

Response:

Air supply to the pool is by buried duct. Please provide the work in accordance with specification section 21 07 00.00 "Mechanical Insulation".

.13 Question:

"I am insulating all the concealed supply air from the AHU's to the diffusers and the supply air duct feeding each VFR and the supply air downstream of the VRF's. Should I allow insulation on the return air duct that is mixing with the supply air that feeds the VRF's?"

Response:

Yes. Please provide the work in accordance with mechanical specification section 21 07 00.00.

.14 Question:

"Drawing M300: Note 5 makes a statement of "exposed office areas" but the reflective ceiling shows these areas not as exposed. Am I correct in saying that?"

Response:

Reference plan 2/A150 RCP-LEVEL 1: Office Areas do not have exposed ceilings.

.15 Question:

"Regarding reinforced concrete sidewalk: Sheet C101 clearly defines the limits of reinforced sidewalk (see northwest corner of the proposed building where the sidewalk comes off of the existing cul-de-sac) I assume the detail for this sidewalk is detail 15 on sheet C104. Sheet L101 on the landscape drawings shows the "Pedestrian concrete paving detail 8/L501". This detail 8/L501 shows that all this sidewalk is to be reinforced as well. Is all sidewalk on the project to be

Bidders's Questions & Responses

reinforced per the landscape drawings or do we only reinforce sidewalk in the location as shown on the civil drawing C101?"

Response:

All concrete paving is to be reinforced with welded wire mesh. The limits of "reinforced concrete" defined on C101 are detailed on 15/C104. All other concrete paving is pedestrian grade and detailed on 8/L501. Note: all concrete is to have the same finish and the same control joint detailing; the difference between vehicular and pedestrian concrete should not be apparent when constructed. The only difference is the depth of concrete itself.

.16 Question:

"We are trying to determine which plan to use for quantities. The Civil and Landscaping plans contradict each other regarding areas of concrete, as well as the gravel road. Could we get clarification on the correct drawing showing which concrete (sidewalk and curb ending and starting locations), gravel and asphalt areas. "

Response:

Use the Civil drawings for information regarding roadway, parking and concrete curbs & sidewalk construction details.

.17 Question:

"I've reviewed the signage drawings and come up with a couple of questions: R6 - What is the total length required for this band? "

Response:

Refer to A951, SIGN PLAN - LEVEL 1, for locations of R6 application. Refer to Screen Elevations on A720 for screen dimensions.

.18 Question:

"Please clarify W/C 112D, 112C, 112F. They are currently shown on A400 as pressed steel frames & doors but are not listed on the door schedule A700. "

Response:

Doors numbers are identified on floor plan 2/A101 and indicated on A700 "Door Schedule":

RM 112D = 130

RM 112C = 131

RM 112F = 132

.19 Question:

"Please clarify areas to receive interior translucent film as per 08 87 00. "

Bidders's Questions & Responses

Response:

Refer to signage drawings A950, A951, A952.

.20 Question:

"Please clarify Aluminum Base as shown on Millwork Schedule A900. Please provide specs for 06 40 00 architectural woodwork or clarify if this is included in the premanufactured bases 09 65 13. "

Response:

Aluminum Base (ALUM) is specified in Section 09 65 13.

.21 Question:

"There are two types of Wood Veneer listed: What is WDV1? There is no information. "

Response:

WDV1 is reserved in 06 40 00 2.3.2. It is currently not used.

.22 Question:

"Spec 21.05.00.00.1.7.1 Please confirm if the referenced drawings will be requested by Consultant. "

Response:

Yes, submit drawings for review before the commencement of relevant work on site.

.23 Question:

"Spec 21.05.00.00.1.7.4 Contractor sees this requirement for drawings (pads, pipe loads, point reactions) as an engineering function, and under the responsibility of the Consultant. Please confirm. "

Response:

The Contractor to provide this item in their scope of work. The intent is to include for any updates resulting from alternate equipment selected by the contractor.

.24 Question:

"Spec 21.05.14.00.3.1.3 Mechanical Contractor is to review the shop drawings for motor starters submitted by the Electrical Contractor. This would normally be the responsibility of the Consultant. "

Bidders's Questions & Responses

Response:

What happens when the contractor selects alternate equipment other than basis of design?
Hence it is the responsibility of the contractor to coordinate and review shop drawings as it relates to there scope of work.

.25 Question:

"Spec 22.11.13.00.3.1.1 Valves shall be provided as shown, and as required – please strike 'as required'. Should additional valves be required for operation and control other than those shown, they should be extra to the contract. "

Response:

Contractor to provide valves as noted on the drawings, standard details and in relevant specification sections.

.26 Question:

"Spec 23.21.13.23.1.1.4 All steel pipe and fittings shall be manufactured in North America. If mill certs and CRN's are provided, will other manufacturer points be considered? "

Response:

Contractor to follow the specifications.

.27 Question:

"Regarding drawing M600A on the lower left corner, the drawings indicate the exhaust pipe to be 3" in diameter. The exhaust pipe has a run of approximate 57ft and then up another 20ft. According to the engine manufacture 3"" will not be large enough. Please confirm pipe size diameter. "

"In addition, who is responsible for insulating the exhaust pipe?"

Response:

Xylem has confirmed the exhaust pipe dimension i.e. 3". Insulation of the exhaust pipe part of the contract and responsibility of the contractor.

.28 Question:

"In section 07 46 19, item 2.4.1.2 refers to a custom metallic colour. For pricing purposes, could you please identify what this colour is and if there will be just one colour that will be required. "

Response:

Specification revised in attached addendum.

.29 Question:

"M300: Do you require the DCW, tempered water and tempered water recirc lines below grade feeding to the hose bibs and deck shower to be insulated?"

Bidders's Questions & Responses

Response:

Not required except when piping passing through lap lane rope storage.

.30 Question:

"M400: the HWS&HWR below grade in the 4" pipe, do they require insulation? "

Response:

Not required, it is a 25mm heating water pipe.

.31 Question:

"Section 21 07 00.00 Mechanical Insulation Part 3 3.1.26 Table 1: what heating systems require which temperature rating? "

Response:

Based on the fluid operating temperature range, the insulation conductivity and thickness shall be selected accordingly. The insulation supplier shall coordinate with the mechanical contractor for project details.

.32 Question:

"Can you please clarify the following:

In reference to the outlined work to be completed by division 13 11 13 on drawing A450, can you please confirm that the following items are included by this division

- .1 The concrete wall & steps for the slide as per drawing A452 & S301
- .2 The monolithic curb at the underside of the aquatic hall benches as per detail 5 drawing A350
- .3 The concrete curb at the underside of the benches as per details 4 drawing A330 and detail 6 drawing A333 along grids A, 7 & G
- .4 The precast concrete panels as per details 5 drawing A350, detail 4 drawing A330, detail 6 drawing A333
- .5 The precast floor panels (fl 8) as per drawing A120 between the pool and leisure pool. Also shown on details 112 & 113 drawing S200
- .6 The 100mm slab shown on details 112 & 113 drawing S200
- .7 The 550mm wall below the pool slab as per detail 13 drawing A451 and detail 106 drawing S200
- .8 The mud slab at the underside of the pool slabs as per the note on drawing S100 and the details on S200"

Response:

Refer to Addendum No. 5" Bidder's Questions & Responses": 1.1.1 Response.

Bidders's Questions & Responses

.33 Question:

"Please confirm that foundation walls are to be backfilled with 30mm clear stone for the first 300mm against the wall per section 31 23 33, page 9 item 3.8.1.6."

Response:

Correct, the first 300mm of material placed against the foundation wall is to be 30mm clear stone to facilitate drainage to footing drains.

.34 Question:

"Drawing M401:

- .1 It is notated that there is ductwork in this area is to be aluminum, could you please advise on which runs are aluminum? Or are all runs aluminum?
- .2 Is the 450x350 Supply Air from below aluminum?
- .3 Is the ductwork serving the showers branch aluminum only, or does it extend for the entire trunk?
- .4 Is the 1450x1150 return line to be galvanized with the branch line, or is this also aluminum?"

Response:

As noted on the drawing in discussion, all ductwork in contact with pool air and shower exhaust system shall be aluminium. This is for ductwork from the grilles/diffusers to the AHU itself.

.35 Question:

"Drawing M400: in regard to the below grade ductwork; is this to be galvanized spiral?"

Response:

Contractor to refer to specification section 23 31 16.29.

.36 Question:

"Drawings M200, 201, & 202: Please confirm that the intent is that the piping indicated is the responsibility of the pool contractor and not the piping contractor."

Response:

Drawing M200: there is no pool piping illustrated on the drawing.

Drawings M201 and 202: documents clearly indicate the piping responsibility. All piping downstream of backflow preventer on the DCW supply line clearly notes where piping is by the Pool Contractor and by the Mechanical Contractor. It is the responsibility of the Bidder to coordinate what trade does what work in accordance with the Tender Documents.

.37 Question:

"Re: Specification section 23 05 93.13, item 3.1.10: Can these tests be witnessed by the owners on site representative (consultant) and/or the General Contractors representative:

Bidders's Questions & Responses

.10: "All Tests for systems shall be performed in the presence of, and test reports signed by, the Independent Company. Notify the Independent Company in writing a minimum of one week in advance of testing."

Response:

Since an Independent Company will be involved in this project, the intention is to have them witness the test. As an added effort the contractor can request the consultant to join in to witness the test along with the Independent testing company.

.38 Question:

"Is the slab in Stair A at level 1 a slab on deck as per details 3 & 7 on drawing A600 or a suspended slab as per drawing S102?"

Response:

Stair A, Level 1 slab is a suspended slab. Details 3 & 7/A600 have been revised in attached addendum.

.39 Question:

"The mechanical enclosure on drawing A101 shows a 200 x 500 containment curb but detail 1 on drawing A460 doesn't. Which is correct?"

Response:

Note on A101 deleted in attached addendum.

.40 Question:

"Diamond Life Gear Pegboard. Is this part of the Millwork scope and if so, what is the spec? Do you have suppliers?"

Response:

Documents revised in attached addendum.

.41 Question:

"Solid Surface Corian Doors on the Waste Receptacles: These would be extremely heavy. How are they to be constructed?"

Response:

Documents revised in attached addendum.

Bidders's Questions & Responses

.42 Question:

"Forbo Bulletin Board. What is the TSK2? It is listed in the Specs but is not on any of the drawings?"

Response:

TSK2 is not used in project and will be removed from spec. TSK1 revised in attached addendum.

.43 Question:

"Please provide spec for roller shade RWS-1X as shown on A501 for glazing Sc116, as per section 12 24 13."

Response:

Remove RWS-1X from project. Refer to documents revised in attached addendum.

.44 Question:

"Millwork M004.1 – Work counter c/w storage in Rm 004 Storage / Maintenance shows stainless steel lower cabinets on 24 A902. Please provide metal casework specs."

Response:

Documents revised in attached addendum.

.45 Question:

"Section 11 52 15 – 1.1.1.1 states television mounts to locations indicated. Please indicate locations required."

Response:

Refer to drawing E300 for locations of two television mounts and attached addendum for revised interior elevations, A500.

.46 Question:

"Please provide the extent of Graffiti protection sealer as specified in 07 19 28."

Response:

Graffiti protection sealer is to be installed on all exposed precast concrete around the perimeter of the building in accordance with sentence 1.1.1.1 "...at precast concrete". This will be clarified as "exterior" precast concrete in attached addendum.

.47 Question:

"Please provide specs for Stainless Steel Millwork and pegboard (M004.1) as shown on 23-25 A902"

Bidders's Questions & Responses

Response:

Documents revised in attached addendum.

.48 Question:

"Request for alternate, Assa Abloy door hardware"

Response:

The Assa Abloy product lines listed are acceptable alternates for bidding on the project provided the proposed hardware items are equal in all respects, including material, grade, weight, function, finish, and design, and they would be subject to review at a later date.

.49 Question:

"That being said I still need clarification on the vertical cladding as the dwgs refer to a standing seam and the specified product is a snap cap. As mentioned the Vicwest Tradition 100 as specified is not a mechanically standing seam profile as shown on the dwgs. A rounded snap cap gets snapped on the vertical joint where the panels come together. With a mechanically seamed profile the joint has a vertical straight leg and is not rounded."

"I can submit either a Tradition 100 type profile with a snap cap as specified or if the architects intent was for a mechanically seamed standing seam like Tradition 150 type wall profile as indicated on the dwgs I can submit that profile for approval as well."

Response:

Please proceed with the "Tradition 100" product as specified.

.50 Question:

"Please provide section for foundation wall along GL 1 b/w GL's F & Gx as shown on drawing S100."

Response:

Documents revised in attached addendum.

.51 Question:

"Please provide section for footing along b/w GL's F & FX between the surge tank and pool tank and the pool tank and GL 7."

Response:

Bid documents to date provide the necessary information illustrating structural footing details.

.52 Question:

"For the most part the documents are clear pertaining to our scope of works, but I did have one question relating to the NLT specification. Requirement 1.3.4 states "Design deck for horizontal

Bidders's Questions & Responses

shear loads as shown on the shear force diagram". From what I could see there's no shear force diagram on the structural drawings."

"These shears will have an impact on the fastening requirements and the level of fabrication. Let us know if I'm missing something or if this could be provided."

Response:

Diaphragm shear forces are given directly on the roof plan. Reference Addendum No.2.

.53 Question:

"In relation to drawing S102 where does the pool deck slab on grade and the building slab on grade start and stop?"

Response:

Refer to architectural and structural sections for clarification of slab transitions.

.54 Question:

"Please provide dimensions for the shear wall footings on grid lines CX and EX on drawing S100."

Response:

Refer to the architectural drawings for wall locations and dimensions.

.55 Question:

"Please provide dimensions for the surge tank on drawing S100 and details 117 & 118 on drawing S200."

Response:

Reference revised floor plan 1/A101 in attached addendum: Surge Tank dimensions added.

.56 Question:

"Requests for alternate, plumbing fixtures J. Wright Sales:

- .1 W/C 1 & 2: Contrac vitreous china 4.8lpf toilet bowl and Bemis seat.
- .2 U-1: Contrac vitreous china 0.5lpf urinal.
- .3 L-1: Contrac vitreous china drop-in basin sink."

Response:

The product lines listed would be acceptable alternates for bidding on the project, provided the proposed items are equal in all respects, including material, function, barrier-free compliance, and design, and they would be subject to review at a later date.

Bidders's Questions & Responses

.57 Question:

"For the access hatches, can we have confirmation that the quantities shown on the RCP are the correct amount for the project? I know typically this is a product supplied by the mechanical/ electrical trades because they know if they require additional hatches."

... and Question:

"In section 09 29 00, item 2.10 refers to the supply of access doors. Access doors are typically provided by the mechanical and electrical trades for installation by the architectural trades. Specification section 21 05 63 and 26 05 63 indicate they are to be provided by the mechanical and electrical trades. Please clarify intent. "

Response:

Section 09 29 00 specifies Architectural Access Doors which are indicated on the Reflected Ceiling Plan as "ARCH RECESSED AP".

Standard Access Doors are provided in accordance with Divisions 21 and 26.

END OF BIDDER'S QUESTIONS & RESPONSES