

NEW SAYERS FOOD STORE

SUBJECT Addendum No. 5 PROJECT 2102 DATE September 29, 2021 PAGES 2

ADDENDUM No. 5

1. Architectural Drawings

Refer to Clouded Revisions for the following sheets:

- A021 Outline Specification
- A100 Ground Level Floor Plan
- A101 Level 2 Floor Plan
- A500 Interior Elevations
- A501 Interior Elevations
- A710 Exterior & Interior Screen Schedules
- A800 Finish Floor Plans and Schedules
- A900 Millwork Drawings
- A901 Millwork Drawings
- A970 Renderings

2. Supplemental Product Information

- Refer to Hardi Trim Installation Guide for typ. installation and details for CC1& CC2.

3. Structural Drawings

REFER TO Addendum No. S2 Letter REFER TO Addendum No. S2 Drawings

4. Electrical Drawings

REFER TO Addendum E03 Addendum Letter, Specifications, Drawings

4. Questions

The following Addendum No. 4 is issued to answer questions related to the following questions by bidders:

5.1 I am having trouble figuring out where the elevation drawings are. I don't know heights for the wall tile and wall panelling. Also the area/dimensions of the tactile domes.

Answer: Refer to Interior Elevations A501/A502 attached. Tactile warning domes are to be located on sidewalk ramp-ups (4/A005), and at the top of Stairs and Ramps per (1&2/A007).

5.2 Our millwork provider has asked if there are any specifications for the Architectural Woodworking? **Answer:** Refer to A900, A901 for Millwork Drawings. Finish specifications are located on A021.

5.3 Could you please provide details for incoming telecom service. We need to know the size of conduit and how many parallel runs are required.

Answer: The incoming telecom service is assumed to be overhead and shown on the Site Plan drawing E100. The Electrical Contractor is to provide the weatherproof gooseneck in the roof to the 2nd floor room where it is assumed to be entering. It is not in the Electrical Contractor's scope to bring in the incoming telecom service wiring, but rather the Owner will coordinate the incoming telecom service with their preferred service provider to bring in the service.

5.4 Does it call for any site remediation because of the fire? I don't see anything anywhere outside of the Geotech report.

Answer: No.

HardieTrim[®]

HardieTrim® Boards Products Description

HardieTrim® boards come finished with either the PrimePlus® factory primer and sealer or with ColorPlus® Technology. The ColorPlus® coating is a factory-applied, oven-baked finish available on a variety of James Hardie® siding and trim products. See your local dealer for details and availability of products, colors, and accessories.

5/4, 4/4 HARDIETRIM® BOARDS

5/4, 4/4 HardieTrim® board is a decorative non-load bearing trim product. 5/4 HardieTrim board is 25mm (1 in) thick, 4/4 HardieTrim board is 19mm (¾ in) thick, and both can be purchased in 3,038mm (10 ft) and 3,658mm (12 ft) lengths, based on local availability. In addition to frieze, rake, window, door, and corner details, 5/4, 4/4 HardieTrim boards may be used to construct light blocks, column wraps and decorative scroll work. Available in commonly-used nominal widths from 101mm (4 in) to 304mm (12 in).

HARDIETRIM® BATTEN BOARDS

HardieTrim® Batten Boards are a decorative non-load bearing trim product. HardieTrim® Batten Boards are 19mm (¾ in) thick, 64mm (2½ in) wide, and come on 3,658mm (12 ft) lengths. See your local dealer for details and availability of product colors and accessories.



5/4, 4/4 HardieTrim board - Smooth



HardieTrim Batten board -Rustic and Smooth (not shown)



HardiePanel vertical siding with HardieTrim Batten board for the Board & Batten look.

MARNING

DO NOT caulk nail heads when using ColorPlus products.

Refer to the ColorPlus touch-up section

A Complete James Hardie Exterior – Close-up on trim products.



ColorPlus TIP: 5/4, 4/4 HardieTrim boards with ColorPlus Technology is shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling

the nail holes with a colored touch-up pen.

Installation of 5/4 & 4/4 HardieTrim® Boards

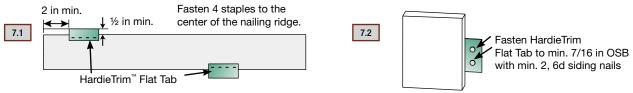
CONCEALED FASTENING TABS

For Corners, Band Boards, Windows, and Door Applications: HardieTrim® boards can be installed with Flat Tabs (JH sku no. 280154) and Corner Tabs (JH sku no. 280155) which provide concealed fastening. Only Flat and Corner Tabs can be used with HardieTrim® boards to create a concealed fastening. Additional framing may be required to ensure the Flat and Corner Tabs are fastened properly to the structure. Special attention should be paid to the framing when using a sheathing that does not have fastener holding equivalent to OSB or Plywood sheathing.

Step 1: Attach Flat Tabs to the back side of the trim with 4 18 ga. ½ in L x ¼ in W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than ½ in from trim edges, using a pneumatic staple gun. (Figure 7.1)

Step 2: For wood frame construction, attach the trim to the building using 2, 6d siding nails fastened through the Flat Tabs. ET&F or equivalent fasteners may be used to attach the Flat Tabs to steel frame construction. (Figures 7.2)

Fastener spacing will vary based on application. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.). (Figures 7.17)



Installation of HardieTrim tabs in Coastal Regions:

James Hardie requires that stainless steel staples & fasteners be used when installing HardieTrim™ Tabs in coastal regions.

Installation of HardieTrim Tabs over Pressure Treated Lumber:

HardieTrim[™] tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.

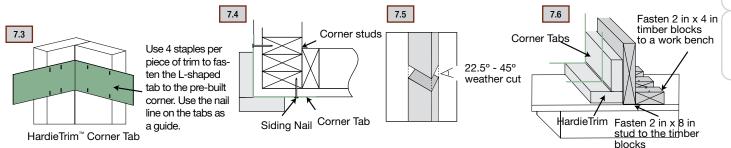
HardieTrim[®] NT3[™] boards with ColorPlus[®] Technology:

Remove the laminate sheet as soon as possible after attaching the trim to the building.

TRIMMING CORNERS

HardieTrim® boards are installed around corners by pre-building the corner off the wall with the Corner Tabs (JH sku no. 280155).

- Attach Corner Tabs to the back side of the trim with 8 18 ga. 1/2 in L x 1/4 in W narrow crown corrosion resistant staples using a pneumatic staple gun. Ensure the Corner Tabs are fastened tight and straight to the trim boards. (Figures 7.3)
- For wood frame construction, attach the trim to the building with 2, 6d siding nails fastened through the Corner Tabs. ET&F or equivalent fasteners may be used to attach the Corner Tabs to steel frame construction. (Figures 7.4)
- Attach a Corner Tab 1 in from each edge and every 20 in o.c.
- TIP: Creating a jig for the work station is recommended to ensure the corners are fastened securely and straight. (Figures 7.6)



General Product Information

> Working Safely

Tools for Cutting and Fastening

> General Installation Requirement

General Fastener Requirements

Finishing and Maintenance

HardieTrim® Boards/Batter

HardieSoffit® Panels

HardiePlanl Lap Siding

HardieShingle® Siding

HardiePanel[®] Vertical Siding

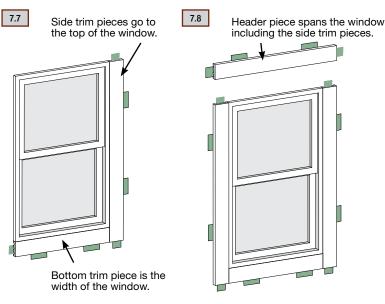
Appendix/ Glossary

Repor

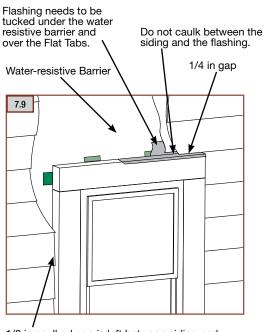
Installation of HardieTrim® Boards (continued)

TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Trim the opening prior to the installation of the siding (Figure 7.7). Place a Flat Tab at the end of each trim board and one tab every 16 in. OC. Attach the trim boards and Flat Tabs around the opening as shown in Figures 7.7 and 7.8.



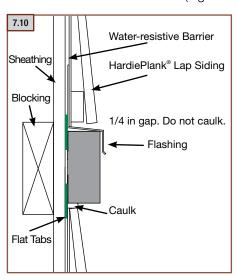
NOTE: Follow your window/door manufacturers installation instructions.

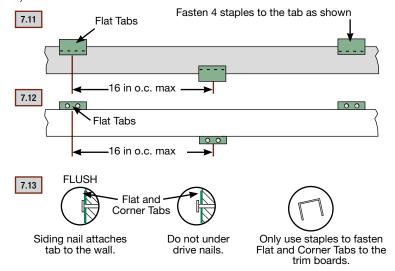


1/8 in caulked gap is left between siding and the side trim pieces.

BAND BOARD

A flashing is required over the trim and Flat Tabs. (Figure 7.10) Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a Flat Tab at the end of each trim board and one tab every stud at a maximum of 16 in. o.c. The Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (Figures 7.11 and 7.12).





FASTENER TABLE

7.14

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to Hardietrim)	Max Tab Spacing (inches on center)
	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of flange into framing		
Flat Tab	Minimum APA rated 7/16" OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through flange into framing	Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally spaced in	16
	Minimum 20 gauge steel	One No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) installed through flange into framing	one row	
	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through flange into framing	For each piece of	
Corner Tab	Minimum APA rated 7/16" OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through flange into framing	trim, install Four 18 ga. X 1/2" long X 1/4" wide corrosion resistant crown staples, equally	20
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1" long X 0.323" head diameter screw (corrosion resistant) through flange into framing	space in two rows	

Wind-Borne Debris Region: "Supplemental fasteners may be necessary when installing tabs in a Wind-Borne Debris Region, please call Technical Services 800-942-7343 with any questions."

RECOGNITION: HardieTrim boards may be installed as an equal alternative to conventional trim permitted for use in; the 1997 Uniform Building Code, Section 601.5.5; the 1997 Standard Building Code, Section 1404.1; the 1999 BOCA National Building Code, Section 1407.2.2; 2003 International Building Code, Section 1402.1, the 2003 International Residence Code for One - and Two -Family - Dwellings, Section R703.1.

the 2003 International Residence Code for One - and Two - Family - Dwellings, Section R703.1. and the 1998 International One-and -Two -Family Dwelling Code, Section 601.1.

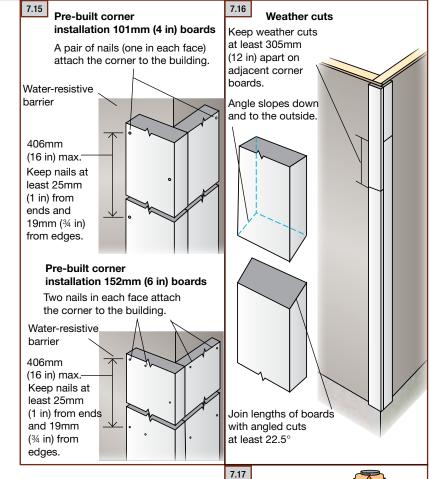
Installation of HardieTrim® Boards (continued)

OUTSIDE CORNERS

Corners made from 5/4, 4/4 HardieTrim® boards can be pre-assembled before they're installed. Pre-assembled corners look better and generally make the installation go more quickly. To join two pieces of 5/4, 4/4 HardieTrim® boards for a corner, drive 50mm (2 in) 16 ga. corrosion-resistant finish nails 13mm (½ in) from the edge and spaced 406mm (16 in) apart along the edge.

To fasten 101mm (4 in) corners to the wall, drive a pair of finish nails or siding nails, (one nail into each face of the corner) with the nails spaced 406mm (16 in) apart. For 152mm (6 in) corners, drive a pair of finish nails or siding nails into each face spaced 406mm (16 in) apart. Nails should be kept 19mm (¾ in) from the edges of the board and 25mm (1 in) from the ends.

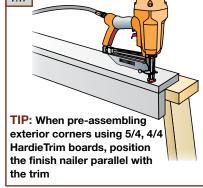
When walls are more than 3,038mm (10 ft) high, splice corner boards together using weather cuts of at least a 22.5° angle. The angle of the weather cut must slope downward and away from the building. Then nail both boards to the building with the same attachment schedule as for preassembled corners, except that 101mm (4 in) 5/4, 4/4 HardieTrim boards that should get two nails per side every 406mm (16 in). Only install trim by butting to it with the siding. Do not install any trim product over James Hardie® siding.



NOTE: All weather cut joints should be touched up prior to installation.

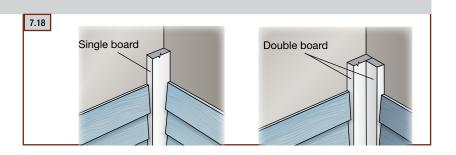


corners.



INSIDE CORNERS

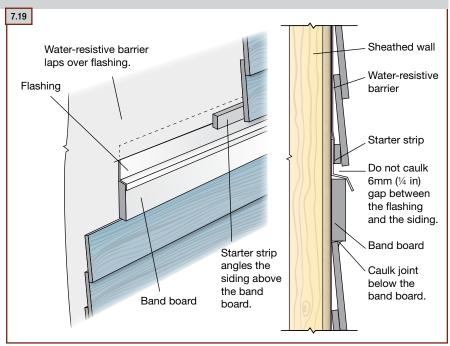
Inside corners can be made with either a single 5/4, 4/4 HardieTrim board in the corner, or with one board on each wall depending on the desired look.



BAND BOARD

A Band board is a decorative horizontal trim used to break up the field of siding on a building. Any width of 5/4, 4/4 HardieTrim® boards can be used for band board depending on the type of detail desired. If installing a band board, pay special attention to flashing details and allow for potential shrinkage of solid rim joists in the walls that the band board may be attached to.

Caulk between the underside of the band board and the siding below. Do not caulk between the flashing and siding above the band board, and maintain a 6mm (1/4 in) gap between the two. Also make sure that the waterresistive barrier laps over the flashing



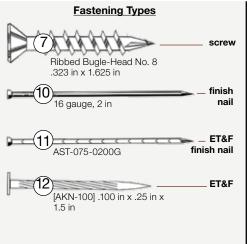
for a continuous drainage plane. If running lap siding or shingle siding above the band board, a starter strip should be installed first to maintain the correct siding angle. Small Periodic gaps should be left in the starter strip to provide an escape route for excess moisture that may drain down behind the siding.

Use bevel-cut splice joints of at least 22.5° to join long lengths of 5/4, 4/4 HardieTrim boards. To attach band board to the building, drive two recommended fasteners every 406mm (16 in) for 101mm (4 in) and 152mm (6 in) boards. For 203mm (8 in) boards, use three fasteners every 406mm (16 in), and use four fasteners every 406mm (16 in) for 305mm (12 in) boards.

5/4, 4/4 HARDIETRIM BOARDS FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable wind load table to determine which fastener meets your wind load design criteria.

Fastening Substrate wood studs	Approved Fastener
over minimum 11mm (7/16 in) OSB	10
steel studs	7 12 11
Pre-built corners	•



	Nailing Pat	Nailing Patterns									
rs	101mm	1 nail every 406mm (16 in) to attach boards together									
corne	(4 in)	1 nail every 406mm (16 in) for each board									
Pre-built corners	152mm (6 in)	1 nail every 406mm (16 in) to attach boards together									
	(0 111)	2 nails every 406mm (16 in) for each board									
rners sas , etc.)	101mm (4 in) & 152mm (6 in)	2 nails every 406mm (16 in)									
Site-built corners & other areas (eg. windows, etc.)	203mm (8 in)	3 nails every 406mm (16 in)									
Site & (eg. '	305mm (12 in)	4 nails every 406mm (16 in)									

indicates recommended fasteners

TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

Installation of HardieTrim® Boards (continued)

WINDOW AND DOOR TRIM

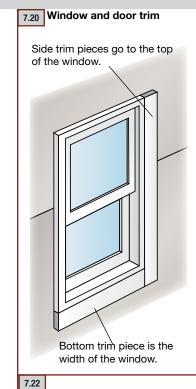
Windows and doors must be installed per the manufacturer's instructions. Window flanges or flashings must be properly installed and lapped correctly under the water-resistive barrier prior to the installation of 5/4, 4/4 HardieTrim® boards. Once the 5/4, 4/4 HardieTrim® boards is put on, proper flashing must be installed above the trim and lapped under the water-resistive barrier correctly.

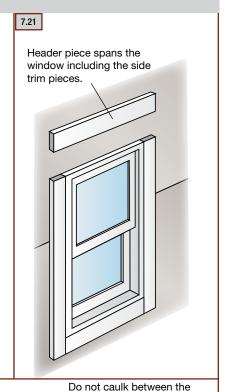
Install 5/4, 4/4 HardieTrim® boards around doors and windows using the "cap over" method, which means that the header or horizontal top piece of the trim extends and caps over the vertical jamb pieces on both sides. For windows, the bottom trim piece or sill trim fits in between the jambs.

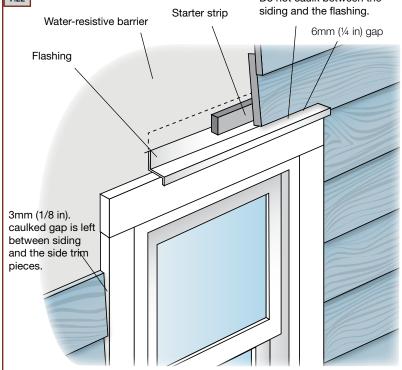
For cap-over trim installation:

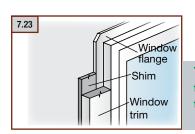
- 1) Start by measuring the length of the bottom edge of the window, not including the flange.
- 2) Cut a piece of trim to that length and install it.
- 3) Next measure from the bottom of the installed trim to the top of the window.
- 4) Cut two pieces of trim to that length and install them on either side of the window.
- 5) For the cap, measure the distance between the outside edges of the side trim pieces. Cut a piece of trim to length and install it.

For doors the process is the same except that it starts with the side pieces, step three.





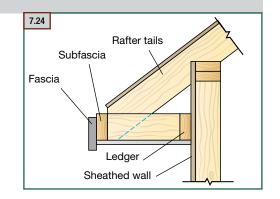




TIP: For trimming around windows and doors with attachment flanges, install a shim strip to build out the wall even with the flange. This strip lets the trim sit flat and parallel with the wall.

INSTALLING RAKE AND FASCIA BOARD

For fascia and rake board applications, James Hardie requires that all HardieTrim® products be nailed over a wood or steel subfascia. James Hardie recommends that the fascia be no more than 50mm (2 in) larger than the subfascia, e.g. over a nominal 2x6 subfascia, install a 203 mm (8 ft) (actual size 184 mm or 7 1/4 ft) fascia board. On longer fascia runs, join HardieTrim boards with weather/bevel cuts.



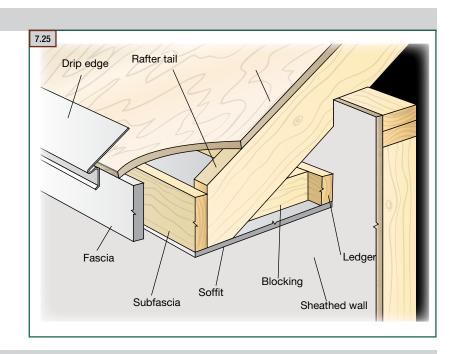


WARNING

HardiePlank® boards should not be used in fascia or trim applications.

DRIP EDGE

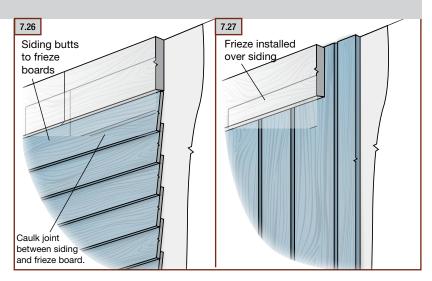
After the fascia is installed, a vinyl, coated aluminum or galvanized drip-edge flashing must be installed to the roof sheathing overlapping the fascia board. The drip edge helps protect the top edge of the fascia board and it minimizes water ingress into the soffit and/or cornice cavity. Choose a drip edge design that effectively channels water away from the face of the fascia and into gutters if present.



INSTALLING FRIEZE BOARDS

FRIEZE MADE FROM 5/4, 4/4 HARDIETRIM® BOARDS

When using lap and shingle sidings, install 5/4, 4/4 HardieTrim® boards as a frieze board before putting in the siding. Then run courses of siding up to the frieze board and caulk the junction of the frieze board and siding. In a building sided with HardiePanel siding, the frieze board is commonly over the panel siding. If joints in the 5/4, 4/4 HardieTrim boards frieze are necessary for longer runs, join boards with a bevel cut. Nail the frieze board every 406mm (16 in) using finish or siding nails.



Installation of HardieTrim® Boards (continued)

General Product nformation

orking Safely

> Tools for utting and Fastening

General Installation Requirements

> General Fastener Requirements

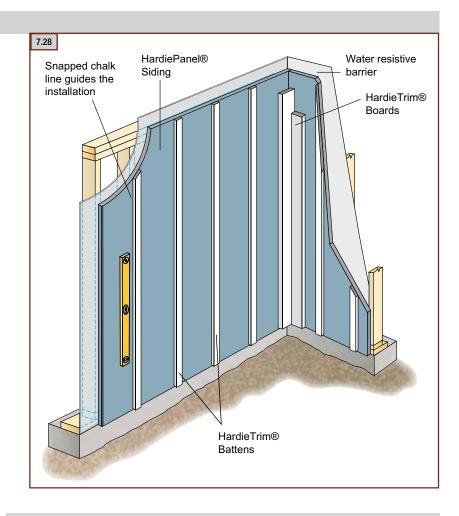
Finishing and Maintenance

lieSoffit® Ha

HardiePlank[®] Lap Siding

GETTING STARTED

HardieTrim® Battens are intended to be used with HardiePanel® vertical siding to achieve a board and batten look. HardieTrim Battens must be attached to wood or steel backing using an approved fastener from the table below. When installing HardieTrim Battens, determine layout and mark where battens will be attached. To ensure that HardieTrim Battens are installed vertically and parallel to each other, either snap chalk lines or use a level. When attaching battens ensure that fasteners are a minimum of 19mm (34 in) from edges, 25mm (1 in) from ends, and a maximum of 406 mm (16 in) o.c.



ColorPlus® TIP:

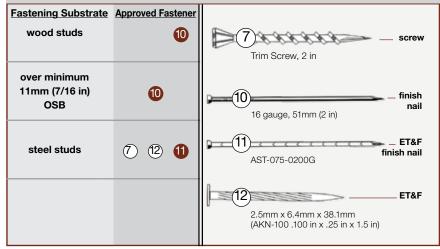
HardieTrim® Battens with ColorPlus®
Technology are shipped with a protective laminate slip sheet. James Hardie recommends keeping the protective sheet in place during cutting and fastening to reduce damage to the boards. Remove the protective sheet only after installing the boards and filling the nail holes with a colored touch-up pen. Finish nails are

required for ColorPlus® products.



HARDIETRIM BATTENS FASTENER SPECIFICATIONS

The Fastener Specifications table shows fastener options for a variety of different nailing substrates. Please refer to the applicable wind load table to determine which fastener meets your wind load design criteria.

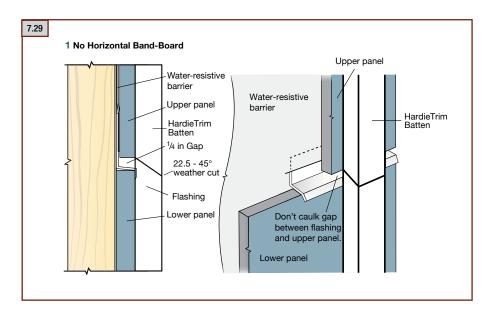


TIP: James Hardie recommends using stainless steel finish nails when installing HardieTrim (Trim, Battens, Fascia, etc.) products.

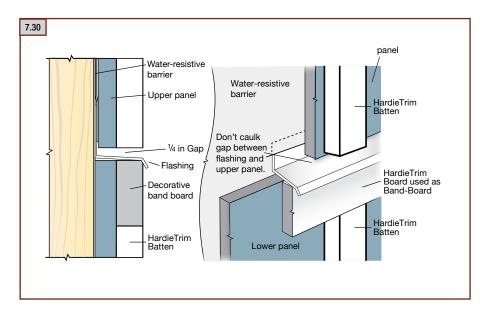
HORIZONTAL JOINT TREATMENT

Horizontal HardieTrim[®] Batten joints must occur at the same location as horizontal joints in HardiePanel[®] siding. Install horizontal HardieTrim Batten joints by using one of the following options:

1) If HardieTrim Battens are going to be installed over horizontal panel joints without the use of a horizontal band board, follow the procedure as illustrated in fig. 7.29. Start installing HardieTrim Battens by creating a weather-cut of at least a 22.5° angle, making a joint at the same location as the panel joint. Attach the bottom batten. Make sure the top batten has a matching weather-cut and then install top batten.



2) If HardieTrim Battens are to be installed over horizontal panel joints with the use of a horizontal band board, follow the procedure as illustrated in fig. 7.30. If HardieTrim Battens are to be installed horizontally, they must be installed in the same manner as in fig. 7.30. Make sure the horizontal Z-flashing is installed over both the lower panel and the horizontal band board. Attach the bottom batten tight to the bottom edge of the band board. Next, leaving a minimum 6mm (1/4 in) gap above the horizontal Z-flashing, install the top batten.





WARNING

Do not bridge floors with HardieTrim Battens and/or HardiePanel Siding.

A horizontal joint should always be created between floors.



HardieTrim® Boards

EFFECTIVE NOVEMBER 2018

IMPORTANT: FAILURE TO FOLLOW JAMES HARDIE WRITTEN INSTALLATION INSTRUCTIONS AND COMPLY WITH APPLICABLE BUILDING CODES MAY VIOLATE LOCAL LAWS, AFFECT BUILDING ENVELOPE PERFORMANCE AND MAY AFFECT WARRANTY COVERAGE. FAILURE TO COMPLY WITH ALL HEALTH AND SAFETY REGULATIONS WHEN CUTTING AND INSTALLING THIS PRODUCT MAY RESULT IN PERSONAL INJURY. BEFORE INSTALLATION, CONFIRM YOU ARE USING THE CORRECT HARDIEZONE® PRODUCT INSTRUCTIONS BY VISITING HARDIEZONE.COM OR CALL 1-866-942-7343 (866-9-HARDIE)

STORAGE & HANDLING:

Store flat and keep dry and covered prior to installation. Installing siding wet or saturated may result in shrinkage at butt joints. Carry planks on edge. Protect edges and corners from breakage. James Hardie is not responsible for damage caused by improper storage and



▲ CUTTING INSTRUCTIONS

OUTDOORS

- Position cutting station so that airflow blows dust away from the user and others near the cutting area.
- 2. Cut using one of the following methods:
 - Best: Circular saw equipped with a HardieBlade® saw blade and attached vacuum dust collection system. Shears (manual, pneumatic or electric) may also be used, not recommended for products thicker than 7/16 in.

 Better: Circular saw equipped with a dust collection feature
 - b. Better: Circular saw equipped with a dust collection feat (e.g. Roan® saw) and a HardieBlade saw blade.
 - c. Good: Circular saw equipped with a HardieBlade saw blade.

INDOORS

DO NOT grind or cut with a power saw indoors. Cut using shears (manual, pneumatic or electric) or the score and snap method, not recommended for products thicker than 7/16 in.

- DO NOT dry sweep dust; use wet dust suppression or vacuum to collect dust.
- For maximum dust reduction, James Hardie recommends using the "Best" cutting practices. Always follow the equipment manufacturer's instructions for proper operation.
- For best performance when cutting with a circular saw, James Hardie recommends using HardieBlade® saw blades.
- Go to jameshardiepros.com for additional cutting and dust control recommendations.

IMPORTANT: The Occupational Safety and Health Administration (OSHA) regulates workplace exposure to silica dust. For construction sites, OSHA has deemed that cutting fiber cement with a circular saw having a blade diameter less than 8 inches and connected to a commercially available dust collection system per manufacturer's instructions results in exposures below the OSHA Permissible Exposure Limit (PEL) for respirable crystalline silica, without the need for additional respiratory protection.

If you are unsure about how to comply with OSHA silica dust regulations, consult a qualified industrial hygienist or safety professional, or contact your James Hardie technical sales representative for assistance. James Hardie makes no representation or warranty that adopting a particular cutting practice will assure your compliance with OSHA rules or other applicable laws and safety requirements.

HardieTrim® boards are decorative non-load bearing trim products.

Do not use HardieTrim boards to replace any structural component.

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Figure 1 HardieTrim NT3 Boards HardieTrim NT3 Boards waterresistive barrier HardieTrim Crown Moulding HardiePlank Lap Siding

GENERAL REQUIREMENTS

- Wood or steel must be provided for attaching HardieTrim boards.
- Follow all applicable codes when installing HardieTrim boards.
- DO NOT install HardieTrim boards, such that they may remain in contact with standing water.



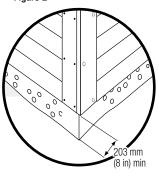




FLASHING/CLEARANCE REQUIREMENTS NO-COVER

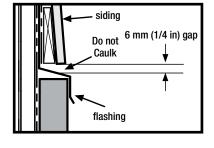
Install HardieTrim with a min. 203 mm (8 in) clearance to grade.

Figure 2



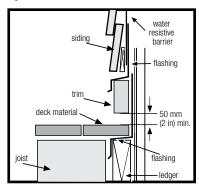
Maintain a 6 mm (1/4 in) clearance between the bottom of James Hardie products and horizontal flashing. Do not caulk gap.

Figure 5

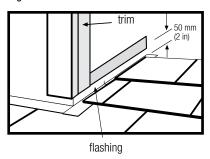


Maintain a minimum 50 mm (2 in) horizontal clearance between James Hardie trim products and decks, paths, steps and driveways.

Figure 3

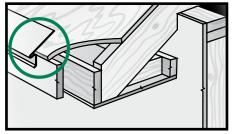


At the juncture of the roof and vertical surfaces, flashing and counter flashing shall be installed per the roofing manufacturer's instructions. Provide a 50 mm (2 in) clearance between the roofing and the bottom edge of the trim. Figure 4



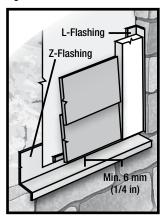
Drip Edge

for fascia installation see page 6 Figure 6



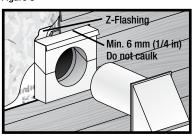
Mortar/Masonry

Figure 7



Block Penetration

Figure 8

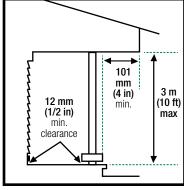


Valley/Shingle Extension

Figure 9



Figure 10



CLEARANCE REQUIREMENTS UNDER-COVER

Maintain a 12 mm (1/2 in) clearance for HardieTrim boards installed under cover. Under cover is defined as:

- Not more than 3 m (10 ft) below a roof overhang, and
- Not less than 101 mm (4 in) horizontally from the edge of the roof overhang



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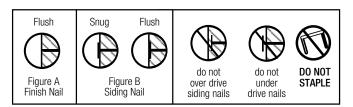
GENERAL FASTENING REQUIREMENTS

Fasteners must be corrosion resistant, galvanized, or stainless steel. Electro-galvanized are acceptable but may exhibit premature corrosion. James Hardie recommends the use of quality, hot-dipped galvanized nails. James Hardie is not responsible for the corrosion resistance of fasteners. Stainless steel fasteners are recommended when installing James Hardie products near the ocean, large bodies of water, or in very humid climates.

Manufacturers of ACQ and CA preservative-treated wood recommend spacer materials or other physical barriers to prevent direct contact of ACQ or CA preservative-treated wood and aluminum products. Fasteners used to attach HardieTrim Tabs to preservative-treated wood shall be of hot dipped zinc-coated galvanized steel or stainless steel and in accordance to 2009 IRC R317.3 or 2009 IBC 2304.9.5."

PNEUMATIC FASTENING

James Hardie products can be hand nailed or fastened with a pneumatic tool. Pneumatic fastening is highly recommended. Set air pressure so that the fastener is driven snug with the surface of the trim. A flush mount attachment on the pneumatic tool is recommended. This will help control the depth the nail is driven. If setting the nail depth proves difficult, choose a setting that under drives the nail. (Drive under driven nails snug with a smooth faced hammer - Does not apply for installation to steel framing).



203 mm (8 in) min. clearance*

FACE NAILING REQUIREMENTS

Use 50 mm (2 in) minimum 16 ga. finish nails to attach HardieTrim boards to wood frame construction. ET&F or equivalent fasteners or screws may be used to attach HardieTrim boards to steel frame construction.

Fastening instructions are similar for all applications. When using finish nails, position nails no closer than 1/2 in. from the edges of the trim and for all other fasteners no closer than 3/4 in. Fasteners must be no closer than 1 in. from ends of trim and spaced a maximum of 16 in. O.C. Ensure trim is adequately fastened.

Figure 11

James Hardie recommends using stainless steel finish nails when installing HardieTrim products.

Minimum fastener guide for finish nailing:

	Pre-built corner	Site Built Corners	Other areas (e.g. window trim, and band boards)	OSB sheathing	water-resistive barrier
4 in.	1 nail every 16 in. to attach boards together + 1 nail every 16 in. each board	2 nails every 16 in.	2 nails every 16 in.		25 mm (1 in) from ends
6 in.	1 nail every 16 in. to attach boards together + 2 nails every 16 in. each board	Z fidiis every 10 iii.	2 Halls every 10 III.		nom enus
8 in.	-	3 nails every 16 in.	3 nails every 16 in.		
12 in.	-	4 nails every 16 in.	3 nails every 16 in.		
				finish na patte	00000

Leave a minimum 3 mm (1/8 in) gap between the siding and trim, then caulk.

plywood or



^{*}Follow all applicable codes when installing HardieTrim boards



INSTALLATION

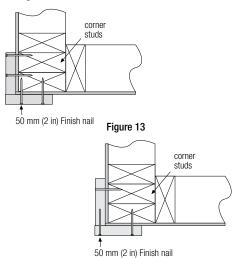
TRIMMING CORNERS

When installing corners or other vertical trim, position boards on the wall and attach (figure 12).

Pre-Built Corners

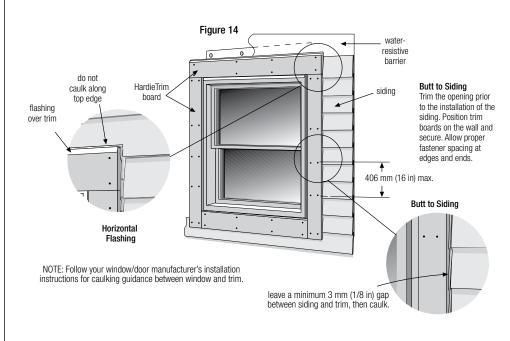
Alternatively, corners can be pre-built off the wall using 50 mm (2 in) finishing nails. Each side of the pre-built corner must be secured to the wall (figure 13).

Figure 12

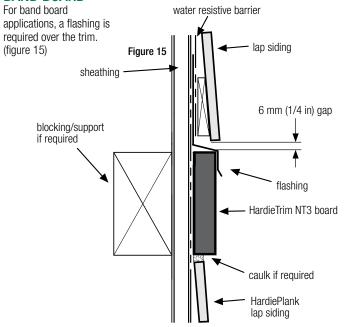


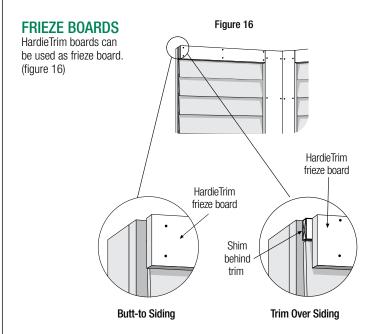
TRIM APPLICATION FOR WINDOWS, DOORS & OTHER OPENINGS

Flashing over trim is required per code for all installation methods. (figure 14)



BAND BOARD







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BATTEN BOARDS

HORIZONTAL PANEL JOINTS

At horizontal panel joints HardieTrim battens must be installed according to option 1 or 2 below. When installing HardieTrim Battens horizontally, they must be installed as a panel joint according to option 2.

Option 1

Figure 17 - No horizontal band board - Make a 22.5 - 45 degree weather cut, in the HardieTrim batten, just above the 6 mm (1/4 in) clearance between panels.

Option 2

Figure 18 - Horizontal Band Board - Install a horizontal band board at the top of the bottom panel. Butt the lower batten to the band board and start the top batten at the bottom edge of the top panel. Maintain a 6 mm (1/4 in) clearance above horizontal flashing.

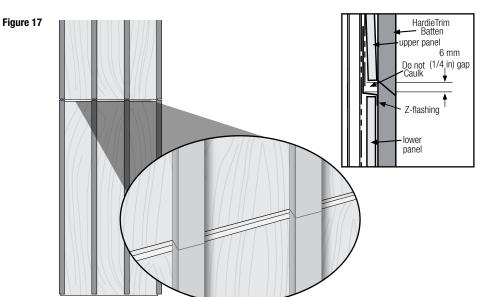
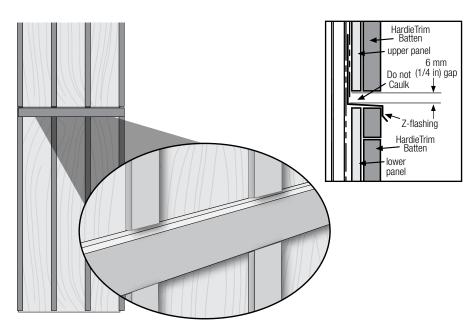


Figure 18







FASCIA

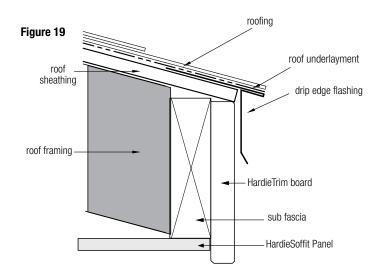
Do not use HardieTrim to replace any structural component

HardieTrim boards can be fastened directly over a 2x sub-fascia or directly to rather tails. Check local building code for relevant codes.

Option 1

Over sub-fascia: (figure 19)

When installing HardieTrim boards over solid 2x sub-fascia use minimum 50 mm (2 in), 16 gauge corrosion resistant finish nails. (see fastener guide below)



Gutters:

James Hardie recommends the use of rain gutters whenever possible.

Do not attach gutters directly to HardieTrim

Use gutter hangers that attach through the roof sheathing into a rafter tail or other structural member.

Soffit

When installing HardieSoffit additional framing/blocking may be needed depending on application. Refer to HardieSoffit installation instructions for guidance.

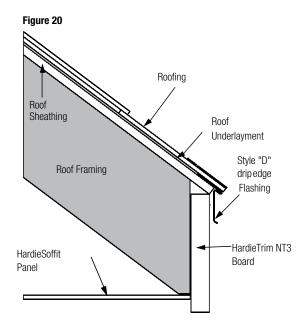
Option 2

Direct to rafter tails: (figure 20)

When installing HardieTrim NT3 boards without the presence of a 2x sub-fascia, a minimum 8d siding corrosion resistant nails must be used to attach HardieTrim NT3 boards DO NOT use finish nails. (*refer to fastener guide below*).

Fascia Fastener Guide

	FASTENER SPACING						
HardieTrim Board	Direct to Rafter (min 8d siding)	Over 2x Sub-fascia (Minimum 50 mm (2 in)16 ga. finish nails)					
6 in.	2 nails every rafter spaced max 610 mm (24 in) 0.C.	2 nails spaced maximum 406 mm (16 in) O.C.					
8 in.	3 nails every rafter spaced max 610 mm (24 in) O.C.	3 nails spaced maximum 406 mm (16 in)0.C.					
10 in.		4 nails spaced maximum 406 mm (16 in) O.C.					





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HARDIETRIM® TABS

FASTENER REQUIREMENTS

For Corners, Band Boards, Windows, and Door Applications:

HardieTrim NT3 boards may be installed with HardieTrim[™] Flat Tabs and HardieTrim[™] Corner Tabs which provide concealed fastening. Only HardieTrim Flat and Corner Tabs can be used with HardieTrim NT3 boards to create a concealed fastening.

- Step 1: Attach HardieTrim Flat Tabs to the back side of the trim using four, 18 ga. 13 mm (1/2 in) L x 6 mm (1/4 in) W narrow crown corrosion resistant staples, equally spaced in one row, positioned no closer than 13 mm (1/2 in) from trim edges using a pneumatic staple gun. (figures 21, 22)
- Step 2: For wood frame construction, attach the trim to the building with minimum 2, 6d siding nails fastened through the HardieTrim Flat Tabs (figure 23). ET&F or equivalent fasteners may be used to attach the HardieTrim Flat Tabs to steel frame construction.

Fastener spacing will vary based on application. Refer to fastener table on page 9. Refer to specific sections in these instructions for required fastener spacing by application (window, band board, etc.)

For Fascia, Rake, and Frieze board Applications:

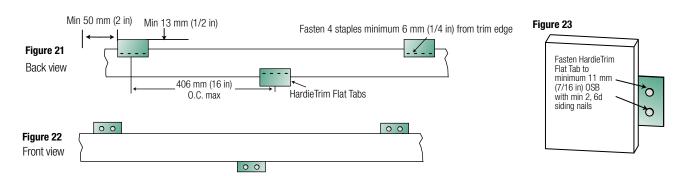
HardieTrim tabs cannot be used in fascia, rake, or frieze board applications. Follow Face nailing fastening specifications.

Installation of HardieTrim tabs in Coastal Regions:

James Hardie requires that stainless steel staples and fasteners be used when installing HardieTrim Tabs in coastal regions.

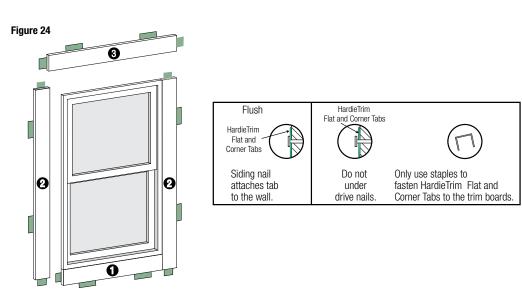
Installation of HardieTrim Tabs over Pressure Treated Lumber: HardieTrim tabs shall not come in direct contact with ACQ or CA preservative-treated wood. Refer to the General Fastening section of this document for further information.

HardieTrim boards with ColorPlus Technology: Remove the laminate sheet as soon as possible after attaching the trim to the building.



Trim Application for Windows, Doors & Other Openings

Trim the opening prior to the installation of the siding. Place a Flat Tab at the end of each trim board and one tab every 406 mm (16 in) OC. Attach the trim boards and Flat Tabs around the opening as shown in figure 24. Use 16 ga. galvanized 50 mm (2 in) long finish nails to ensure proper fastening if needed.



NOTE: Follow your window/door manufacturers installation instructions for caulking guidance between window and trim.



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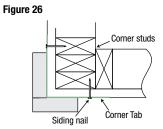
TRIMMING CORNERS

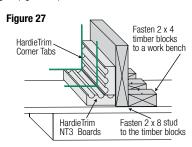
When using HardieTrim tabs prebuild outside corners off the wall.

- Attach HardieTrim Corner Tabs to the back side of the trim using eight(8) 18 ga. 13 mm (1/2 in) L x 6 mm (1/4 in) W narrow crown corrosion resistant staples using a pneumatic stapler. Ensure the HardieTrim Corner Tabs are fastened tight and straight to the trim boards. (figure 25)
- For wood frame construction, attach trim to building using min. 6d siding nails fastened through the HardieTrim Corner Tabs attached to minimum 11 mm (7/16 in) OSB *. (figure 26)
- Attach a HardieTrim Corner Tab 25 mm (1 in) from each ends and every 508 mm (20 in) 0.C.
- TIP: Creating a jig for the work station is recommended to ensure corners are fastened securely and straight. (figure 27)

Figure 25

Use 4 staples per piece of trim to fasten the L-shaped tab to the pre-built corner. Use the nail line on the tabs as a guide.





BAND BOARD

Terminate ends of the Band Board into Trim or Siding or miter cut the edges of the trim at the corners of the building. Place a HardieTrim Flat Tab at the end of each trim board and one tab every stud at a maximum of 406 mm (16 in) 0.C. The HardieTrim Flat Tabs should be attached to the trim in an alternating pattern to the top and bottom of the band board (figures 21, 22). Use 16 ga. galvanized 50 mm (2 in) long finish nails to ensure proper fastening if needed.

Trim Tab Fastener Table

Application	Framing Material Tab is nailed into	Fastener (tab to framing)	Fastener (tab to trim)	Max Tab Spacing (inches on center)
	Wood Stud (minimum G=0.42)	One 6d corrosion resistant siding nail installed through center of tab into framing	Four 18 ga. X 13 mm	
Flat Tab	Minimum APA rated 11 mm (7/16 in) OSB	Two 4d ring shank corrosion resistant siding nails equally spaced installed through tab into framing	(1/2 in) L x 6 mm (1/4 in) W corrosion resistant crown staples, equally	16
	Minimum 20 gauge steel	One No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) installed through flange into framing	spaced in one row resistant)	
	Wood Stud (minimum G=0.42)	On each flange, Install one 6d corrosion resistant siding nail through tab into framing	For each piece of	
Corner Tab	Minimum APA rated 11 mm (7/16 in) OSB	On each flange, Install two 4d ring shank corrosion resistant siding nails through tab into framing	trim, install Four 18 ga. X 13 mm (1/2 in) L x 6 mm (1/4 in) W corrosion resistant	20
	Minimum 20 gauge steel	On each flange, Install one No. 8 X 1 in. long X 0.323 in. head diameter screw (corrosion resistant) through tab into framing	crown staples, equally space in two rows	



FINISHING

CUT EDGE TREATMENT

Caulk, paint or prime all field cut edges. James Hardie touch-up kits are required to touch-up ColorPlus products.

CAULKING

Elastomeric Joint Sealant is required in accordance with Part 9.27.4 of the NBC, complying with ASTM C920 Grade NS, Class 25 or higher or a Latex Joint Sealant complying with ASTM C834. Caulking/Sealant must be applied in accordance with the caulking/sealant manufacturer's written instructions.

PAINTING

DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie Products. James Hardie products must be painted within 180 days for primed product and 90 days for unprimed. 100% acrylic topcoats are recommended. Do not paint when wet. For application rates refer to paint manufacturers specifications. Back-rolling is recommended if the siding is sprayed.

COLORPLUS TECHNOLOGY CAULKING, TOUCH-UP & LAMINATE

- Care should be taken when handling and cutting James Hardie® ColorPlus® products. During installation use a wet soft cloth or soft brush to gently wipe off any residue or construction dust left on the product, then rinse with a garden hose.
- Touch up nicks, scrapes and nail heads using the ColorPlus® Technology touch-up applicator. Touch-up should be used sparingly. If large areas require touch-up, replace the damaged area with new HardiePlank® lap siding with ColorPlus® Technology.
- Laminate sheet must be removed immediately after installation of each course.
- Terminate non-factory cut edges into trim where possible, and caulk. Color matched caulks are available from your ColorPlus® product dealer.
- Treat all other non-factory cut edges using the ColorPlus Technology edge coaters, available from your ColorPlus product dealer.

Note: James Hardie does not warrant the usage of third party touch-up or paints used as touch-up on James Hardie ColorPlus products.

Problems with appearance or performance arising from use of third party touch-up paints or paints used as touch-up that are not James Hardie touch-up will not be covered under the James Hardie ColorPlus Limited Finish Warranty.

PAINTING JAMES HARDIE SIDING AND TRIM PRODUCTS WITH COLORPLUS TECHNOLOGY

When repainting ColorPlus products, James Hardie recommends the following regarding surface preparation and topcoat application:

- Ensure the surface is clean, dry, and free of any dust, dirt, or mildew
- Repriming is normally not necessary
- 100% acrylic topcoats are recommended
- DO NOT use stain, oil/alkyd base paint, or powder coating on James Hardie® Products.
- Apply finish coat in accordance with paint manufacturers written instructions regarding coverage, application methods, and application temperature
- DO NOT caulk nail heads when using ColorPlus products, refer to the ColorPlus touch-up section

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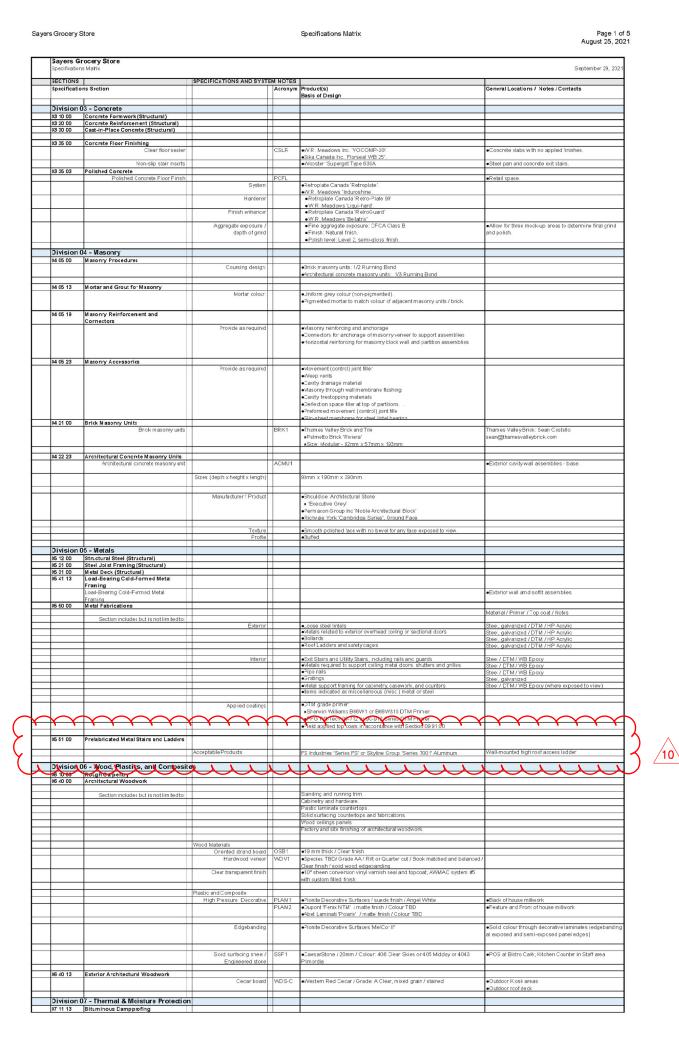
LICA WARNING

DANGER: May cause cancer if dust from product is inhaled. Causes damage to lungs and respiratory system through prolonged or repeated inhalation of dust from product. Refer to the current product Safety Data Sheet before use. The hazard associated with fiber cement arises from crystalline silica present in the dust generated by activities such as cutting, machining, drilling, routing, sawing, crushing, or otherwise abrading fiber cement, and when cleaning up, disposing of or moving the dust. When doing any of these activities in a manner that generates dust you must (1) comply with the OSHA standard for silica dust and/or other applicable law, (2) follow James Hardie cutting instructions to reduce or limit the release of dust; (3) warn others in the area to avoid breathing the dust; (4) when using mechanical saw or high speed cutting tools, work outdoors and use dust collection equipment; and (5) if no other dust controls are available, wear a dust mask or respirator that meets NIOSH requirements (e.g. N-95 dust mask). During clean-up, use a well maintained vacuum and filter appropriate for capturing fine (respirable) dust or use wet clean-up methods - never dry sweep.

A WARNING: This product can expose you to chemicals including respirable crystalline silica, which is known to the State of California to cause cancer. For more information go to P65Warnings.ca.gov.

RECOGNITION: HardieTrim boards may be installed as an equal alternative to conventional trim permitted for use in; 2006, 2009, 2012 & 2015 International Building Code, Section 1403, and the 2006, 2009, 2012 & 2015 International Residential Code for One and Two-Family Dwellings, Section R703.





	SECTIONS		SPECIFICATIONS AND SYSTI	EM NOTES		
- 1	Specificatio			Acronym	Product(s) Basis of Design	General Locations / Notes / Contacts
		Prefnished steel flashing			Minimum thickness: ■0.61 mm (0.0239") (24 gauge), colour TBD.	
	07 81 00	Sprayed Fire-Resistive Materials				
\dashv		(SFRM) At Contractor's option, use either type of spri	aved fire-resistive materials speci	fied, but use	only one type throughout the Work	
		Cementitious Fireproofing (Wet-Mix)				
			Standard density		AD Fire Protection Systems Southwest Fireproofing Type 5GP'. GCP Applied Technologies 'Monokote MK-6'.	
-			Medium density		Isolatek International 'Cafco 300 A/D Fire Protection Systems Inc. 'Southwest Fireproofing Type 5MD'.	
					GCP Applied Technologies 'Z-106 G'. Isolatek International 'Cafco 400.	
\dashv						
		Mineral-Fibre Fireproofing (Dry-Mix)			AD Fire Protection Systems A/D Type FP*. Isolatek International 'Cafco Blaze-Shield DCF'.	
					Isolatek International 'Cafco Blaze-Shield II'.	
	07 84 00 07 92 00	Joint Firestopping and Smoke Seals Joint Sealants				
		Acceptable manufacturers			BASF DOWSIL	
					Momertive Sika	
\dashv					●Trem co	
\exists		Exterior sealants	Joints in vertical surfaces Horizontal trafficable joints		Sika 'Skasil WS-290' Sika 'Skafex 15LM	
		Interior sealants	General		◆Sika 'Sikafiex 1A'	
			Movement joints in vertical surfaces		•Sika 'Sikaflex 15LM'	
			Mildew resistant one part silicone sealant		•Sika 'Skasil GP'	
		Schedule	SSilv Sverdit			
			Exterior			Perimeters of exterior openings Movement and control joints
						Exterior joints between masonry and insitu concrete. Exterior joints in horizontal wearing surfaces.
						Perimeters of louvres. Perimeters of mechanical and electrical penetrations.
						Similaters of mechanical and electrical penetrations
			Interior			Movement and control joints Interior control and expansion joints in floor and wall
						surfaces. •Perimeters of exterior door and window frames.
						Exposed interior control joints in gypsum board. Millwork junctions with walls.
			Interior - mildew resistant			Perim eter joints of wet fixtures Counter/wall junctions at countertops
4						Food preparation areas
	Division 0 08 11 13	08 - Openings Steel Doors and Frames (HM)				
7	08 11 13	Acceptable manufacturers			All Steel Doors 2000 Ltd.	
					◆Apex Industries Inc. ◆Artek Door (1985) Ltd.	
					Daybar Industries Ltd. Fleming-Baron Door Products.	
					Gensteel Doors. M.J. DaleyManufacturing Co. Ltd. Ltd.	
					Shanahan's Manufacturing Ltd. Trillium Steel Doors Limited.	
					Nision Hollow Metal Limited	
\dashv		Steel doors and panels	Exterior and insulated doors	T	•Face sheets fabricated from 1.34 mm (0.053") (16 gauge) steel.	
					Steel stiffened core. Longitudinal edges continuously welded the full height of the door, filled and	
					ground smooth with no visible seams. ●insulation core: Polyiso cyanurate.	
\dashv			Interior and non-insulated		◆Face sheets fabricated from 1.06 mm (0.042") (18 gauge) steel	
_			doors and panels		Honeycomb core. Longitudinal edges mechanically interlocked.	
		Frames	Exterior and thermally broken frames		•1.34 mm (0.053")(16 gauge) steel.	
			Interior frames		●1.34 mm (0.053") (16 gauge) steel.	~~~~~
	YY	Finish	+ + + + +		Mirimum Galvan eal coating de gnation (F120 A40).	
	08 11 13	Fire Rated Glass and Framing Acceptable manuracturer			Technical Glass Products (TGP)	Connor Martin
	08 11 13	Acceptable manuracturer			1 Superior and 1 Superior and Information (1974) and 197	Connor Martin Tel: 416-312-1059
	08 11 13		Fire-rated steel framing		Technical Gass Products (TGP) TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1	
	08 11 13	Acceptable manuracturer Framing	Fire-rated steel framing Fire-rated glass		TGP 'Fireframes Designer Series' fire-rated narrow profile framing	
	08 11 13	Acceptable manuracturer Framing Finish			TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coasing to match colour CC1	
	08 11 13 08 13 Q0	Acceptable manuracturer Framing Firish Glass			TGP 'Fireframes Designer Senes' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'FireLite' 5 mm (3/16') fire-ratec glazing, Standard Grade. 45 minutes	Tel: 416-312-1059
		Acceptable manuracturer Framing Firsh Glass Reting			TGP 'Fireframes Designer Senes' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'FireLite' 5 mm (3/16') fire-ratec glazing, Standard Grade. 45 minutes	Tel: 416-312-1059
		Acceptable manuracturer Framing Firsh Glass Rating			TGP Fireframes Designer Series fire-rated narrow profile framing Powder coating to match colour CC1 TGP FireLite '5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serport Holdings - Dive During Sand During Boding Serport Holdings - Dive During Sand During Boding Window Package Standard Single	Tel: 416-312-1059
		Acceptable manuracturer Framing Firsh Glass Rating		\	TGP-Fireframes Designer Series fire-rated narrow profile framing Powder coating to match colour CC1 TGP-FireLite* 5 mm (3/16*) fire-rated glazing, Standard Grade. 45 minutes Sand Hold Series Drop - Sumprest Tear Drop - Window Package Standard Single - Numinum Lower Hings Guard - Fasteries* Steel Jamp	Tel: 416-312-1059
		Acceptable manuracturer Framing Firsh Glass Rating			TGP-Fireframes Designer Series fire-rated narrow profile framing Powder coating to match colour CC1 TGP-Fireflate '5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Sagon Holding Chae Do San Durake Reiner Sumpras Tear Drop Window Package Standard Single **Numburn Lover Hinge Guad **Fasteriass Steel Janno **Gaskets-Full **Seels: Standard 2** Seels: Standard 2**	Tel: 416-312-1059
<u> </u>	08 13 00	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Dogrs			TGP Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serport Hollows - Phase Drive Sand Dualitie Resente Serport Hollows - Phase Drive Sand Dualitie Resente Serport Hollows - Phase Drive Sand Dualitie Resente Aluminum Lower Hinge Guard Fasteners: Steel .amp -Saskets Full	Tel: 416-312-1059
<u> </u>		Acceptable manuracturer Framing Firsh Glass Rating		WED1	TGP-Fireframes Designer Series fire-rated narrow profile framing Powder coasing to match colour CC1 TGP-FireLite' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Sampha-HoldMac Chie Do Sam Dundke Reidner Sumples: Tear Drop Window Package: Standard Single **Bumpers: Tear Drop **Authority Total Chie Chie **Satharts: Stell Jamp **Osakets: Full **Osakets: Full **Satharts: Stell Jamp **Sathar	Tel: 416-312-1059
<u> </u>	08 13 00	Acceptable manuracturer Framing Finish Glass Rating Steel Traffic Doers Wood Doors		WED1	TGP-Fireframes Designer Series fire-rated narrow profile framing Powder coating to match colour CC1 TGP-FireLite' 5mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Sering Hollwhis - Chile Du Sanh Dundte Reidner Sumpers Teer Drop *Vindow Package: Standard Single *Numirum Lower Hinge Guard *Fatteriss: Steel Jann *Gatekis: Full *Seets: Standard 2' *Innear-Hinne Seet 15ft v 90-femnes *Lepage Millwork 'Crattsman' *Lepage Millwork 'Crattsman' *Single Door with Right Side Light and Rectangular Transom *Single Door with Right Side Light and Rectangular Transom *Single Door With Right Side Light and Rectangular Transom	Front entry door Lepage Millwork
<u> </u>	08 13 00	Acceptable manuracturer Framing Finish Glass Rating Steel Traffic Doers Wood Doors		WED1	TGP-Fireframes Designer Series fire-rated narrow prefile framing Powder coating to match colour CC1 TGP-FireLite' 5mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Samp and Hollwhale of the Samb Druche Rother Sumpers Tear Drop •Window Package Standard Single •Nummum Lower Hinge Guad •Tatteries' Steel amn •Satkets-Full •Satkets-Full •Sate Jandard 2 •Inher Hinne Sael 15ft y 9ft Henness •Lepage Millwork 'Cratteman' •Single Oocr with Right Side Light and Rectangular Transom •Infil: Door Glass Pamal Infill •Sidelites: Glass Infill •Sidelites: Glass Infill •Sidelites: Glass Infill	Front entry door Lepage Millwork jim@halbuttonlumber.com
<u> </u>	08 13 00	Acceptable manuracturer Framing Finish Glass Rating Steel Traffic Doers Wood Doors		WED1	TGP-Fireframes Designer Senes' fire-rated narrow profile framing Powder coating to match colour CC1 TGP-Firefults' 5 mm (3/16") fire-rated glazing, Standard Grade. 45 minutes Senon-Holding - Onde Down Sand Durche Radhur Bumpers: Tear Drop Window Package: Standard Single *Aluminum Lower Hinge Guard *Fasteners: Steel .amn *Gaskels Full *Seals: Standard 2" *Inner-Hinnes Seal : 151 v 90 flenrees *Lepage Millwork 'Cratsman' *Single Door Win Right Side - Light and Rectangular Transom *Infile Door Glass Panil Infil	Front entry door Lepage Millwork
<u></u>	08 13 00	Framing Firsh Glass Rating Steel Traffic Doors Wood Doors Wood deartry door and sidelight		WED1	TGP-Fireframes Designer Series fire-rated narrow profile framing Powder coating to match colour CC1 TGP-FireLite' 5mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Samp and Hollwhale of the Samb Durche Rother Samp and Fireframes Samp and Fireframes Window Package, Standard Single Winnimm Lower Hinge Guad - "Satternss" Steel Jamp - "Satternss" Steel Jamp - "Satterns" Steel Ja	Front entry door Lepage Millwork jim@halbuttonlumber.com
<u></u>	08 13 00	Acceptable manuracturer Framing Finish Glass Rating Steel Traffic Doers Wood Doors		WED1	TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serion - Edulary - Phale Discourage Series - Seri	Front entry door Lepage Millwork jim@halbuttonlumber.com
<u></u>	08 13 00	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Doors Wood Doors Wood eritry door and sidelight Overhead Sectional Doors Automatic Sliding Entrance Doors	Fire-raved glass		TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serpon High New Power Series (1/16') fire-rated glazing, Standard Grade. 45 minutes Serpon High New Power Series (1/16') fire-rated glazing, Standard Grade. *Sumpers Tear Drop *Window Package, Standard Single *Juminum Lover Hinge Guard *Fattensrs: Steelamn *Salpho Standard 2' *Salmar Fines Seal50' y 40 Henness Lesage Milwork 'Cratsman' *Single Door with Right Sideight and Rectangular Transom *mil: Door Glass Panel Infill *Sidelites Glass Infill *Door and Frame Finish: Mahogany – Rawhide, Saddle, Natural, Charcoel *Hardware Baldwin Collection – Classic *Sill Anddzied Gronze, Drass or Aluminum or similar *Refer to Section 11 13 19 – Loading Dook Accessories *Refer to Section 11 13 19 – Loading Dook Accessories *Refer to Towning AT00 Overnead motorized insulated steel sectional doors w/ acrylic glazing	Front entry door Lepage Millwork jim @halb utroniumser com
<u></u>	08 13 Q0 08 14 00	Acceptable manuracturer Framing Firsh Glass Reting Steel Traffic Doors Wood Doors Wood orliny door and sidelight Overhead Sectional Doors		WED1	TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serpon Highway Power Designer Series' Series Se	Front entry door Lepage Millwork jim @halb utoniumber com https://www.lepagemillwork.com/en-ca/
<u></u>	08 13 Q0 08 14 00	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Doors Wood Doors Wood eritry door and sidelight Overhead Sectional Doors Automatic Sliding Entrance Doors	Fire-raved glass		TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serpon Hight New Power Series (1/2) fire-rated glazing, Standard Grade. 45 minutes Serpon Hight New Power Series (1/2) fire-rated glazing, Standard Grade. 45 minutes Serpon Hight New Power Series (1/2) fire-rated glazing. *Journal Hight New Finge Guard *Fattensrs: Steel Jenn	Front entry door Lepege Millwork jim @halbutonlumber.com https://www.lepegemillwork.com/en-ca/
	08 13 00 08 14 00 08 33 13	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Doers Wood Doers Wood entry door and sidelight Overhead Sectional Doors Automatic Silding Entrance Doors Automatic Silding Door	Fire-raved glass		TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Serion Holdman - Inhae D. Sun Duumte Reseme Serion Holdman - Inhae D. Sun Duumte Reseme Serion Holdman - Inhae D. Sun Duumte Reseme Sun Duumter Series Control Vindow Package: Standard Single «Numtrum Lower Hinge Guad Frastenras: Steel - ann 4-Saskets Full Seels: Standard 2' Illnear Hinnes Seal + 16/1 x 9/1 Henness Lepage Millwork 'Cratsman' Single Door with Right Side Light and Rectangular Transom Infili Door Glass Panel Infill Door and Frame Finish: Mahogany - Rawhide, Seddle, Natural, Charceal *Indivare Basis Infill Door and Frame Finish: Mahogany - Rawhide, Seddle, Natural, Charceal *Indivare Basis Infill *Refer to Section 11 13 19 - Loading Dook Accessories *Refer to Drawing A700 Overnead motorized insulated steel sectional doors w/ acrylic glazing *Horton Aubmatics, Proside Series 2021', Silding door system with sledric bit drive operator *Poor type: 3/10 - SK 8 SO	■Front entry door Lepage Millwork jim@halbutonlumber.com https://www.lepagemillwork.com/en-ca/ ■Exterior - Refer to drawing A710. Nick Gaudet
	08 13 Q0 08 14 00	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Doors Wood Doors Wood eritry door and sidelight Overhead Sectional Doors Automatic Sliding Entrance Doors	Fire-raved glass		TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' 5 mm (3/16') fire-rated glazing, Standard Grade. 45 minutes Samph Endings - Dive Dive Samb Duurine Bourine - Sumpriss Tear Drop - Window Package: Standard Single - Summrum Cover Hinge Guard - Fastensrs: Steelamo - Stankets Full - Seals: Standard 2' - Standard 2' - Standard 2' - Single Door With Right Side Light and Rectangular Transom - Infile Door Glass Famil Hill - Social Standard Stan	Front entry door Lepege Millwork jim @halbutonlumber.com https://www.lepegemillwork.com/en-ca/
	08 13 00 08 14 00 08 33 13	Acceptable manuracturer Framing Firsh Glass Reting Steel Traffic Doors Wood Doors Wood entry door and sidelight Overhead Sectional Doors Automatic Sliding Entrance Doors Automatic Sliding Coor	Fire-raved glass	SED1	TGP-Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP-Firefults' 5mm (8/16") fire-rated glazing, Standard Grade. 45 minutes Serion-Holding - Onde Do San Duumbe Radmer Sumpers: Tear Drop Window Package: Standard Single «Numirum Lower Hinge Guard «Fastenses: Steel Jame «Fastenses: Steel Jame «Fastenses: Steel Jame «Fastenses: Steel Jame «Fastenses: Standard 2" «Inner Hinnes Saal 15ft y 90 Henroes: «Lepage Millwork 'Cratsman' «Ingle Door With Right Side Light and Rectangular Transom «Infili Door Glass Famil Infili «Door and Frame Finish: Matogany - Rawhide, Seddle, Natural, Charcoel «Hardware Stass filli «Door and Frame Finish: Matogany - Rawhide, Seddle, Natural, Charcoel «Hardware Stass filli «Sidelites: Glass filli «Refer to Section 11 13 19 - Loading Dook Accessories «Refer to Drawing A700 Overnead motorage directles steel sectional doors w/ acrylic glazting *Holton Aubmatics, 'Prosiide Series 2021', sliding door system with eledric both drive operator «Door tipe: 310 - SX 8 SO «Optext - LoreXT mation/presence detectors and m/s manual locking «Finish: PPS DurnarXI. custom colour	For the trity door Lepage Millwork jim@halb utonlumber.com https://www.lepagemillwork.com/en-ca/ Exterior - Refer to drawing A710. Nick Gaudet ngaudet@motonortano.com
	08 13 00 08 14 00 08 33 13	Acceptable manuracturer Framing Firsh Glass Rating Steel Traffic Doors Wood Doors Wood entry door and sidelight Overhead Sectional Doors Automatic Silding Entrance Doors Automatic Silding Door Automatic Silding Systems Curtairwall	Fire-raved glass	SED1	TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' Smm (3/16') fire-rated glazing, Standard Grade. 45 minutes Sampha Holdhare - Dhale Did Samb Duumhe Bodhare Sambhare Holdhare - Dhale Did Sambhare - Sambhare - Holdhare - Holdhare - Holdhare - Sambhare - Holdhare	Front entry door Lepage Millwork im@nalbutonlumber.com https://www.lepagemillwork.com/en-ca/ Exterior - Refer to drawing A710. Nick Gaudet apsaudet@monthorotrario.com 905-331-7491 x122 Exterior - Refer to drawing A710.
	08 13 00 08 14 00 08 33 13	Acceptable manuracturer Framing Firsh Glass Reting Steel Traffic Doors Wood Doors Wood entry door and sidelight Overhead Sectional Doors Automatic Sliding Entrance Doors Automatic Sliding Coor	Fire-raved glass	SED1	TGP 'Fireframes Designer Series' fire-rated narrow profile framing Powder coating to match colour CC1 TGP 'Firefulte' Smm (3/16') fire-rated glazing, Standard Grade. 45 minutes Sampha Holdhare - Dhale Did Samb Duumhe Bodhare Sambhare Holdhare - Dhale Did Sambhare - Sambhare - Holdhare - Holdhare - Holdhare - Sambhare - Holdhare	For the trity door Lepage Millwork jim@halb utonlumber.com https://www.lepagemillwork.com/en-ca/ Exterior - Refer to drawing A710. Nick Gaudet ngaudet@motonortano.com

	SECTIONS		SPECIFICATIONS AND SYST			
	Specification				Product(s) Basis of Design	General Locations / Notes / Contacts
		Fluid -Applied Epoxy Flooring		EPFC2	Stonhard "Stonshield HR!" with broadcast / "Stoneproof ME7" waterproofing Colour: Steel grey	Pool Filtration Room.
1						
1		Base			●Integral cove base, 6' high	
_ (9 \$1 00	Painting Scope			Painting of interior and exterior paintable surfaces.	
			Non-paintable surfaces		Material and equipment furnished prime and finish pairted. Invernal surfaces of steel tanks and stacks.	
					Sprayed fire-resistive materials. Architectural concrete and pre-cast concrete.	
					Stainless steel, wedthering steel, copper, bronze, chromium plate, nickel, anodized or lacquered or mill finished aluminum, Monel nietal.	
					 Insulation. 	
					Gass and plastic, except exposed PYC piping. Brick, stone and exterior mascnryvereers.	
					Metallic and masticinsulation finishes. Abrasive material finishes on floors, stair treads, stair rosing and	
					lantings. •Insulated electric cables.	
\checkmark	\sim			+	Machined parts of a achinery and equipment Manufactured finish materials	
	•	Exterior Paint Systems		<u> </u>		
+		Cementitious cladding	Primer coat Top coats (2 coats)		Fadory primed High Perfromance Acrylic (HP Acrylic):	
•	, ,				Sherwin Williams Sher-Cryl HPA B66-351, semi-gloss.	· · · · · · · ·
$\overline{}$	\sim	Interior Park Systems HIPAC Latex:	Primer coat	\sim	As recommended by:op cost manufacturer or as indicated below.	•Public areas
+		High performance architectural latex	Top coats (2 coats)		Berjamin Moore Aura Waterporne Latek K52x series.	
					Sherwin William's Duration Interior Acrylic Latex A9x-1200 Series. Dulux Diamond 14220/15110 Interior Acrylic.	
7		WB Epoxy	Primer coat		As recommended by top coat manufacturer or as indicated below.	Back of house areas, food prep areas, washrooms.
4		Water based light industrial coating	Top coats (2 coats)	-	Berjamin Moore Corctech Pre-Catalyzed Waterborne Epoxy V341 / V342.	are as a substitution prop all cast, mastitutins.
			Top coats (2 coats)		 Sherwin Williams Pre-Catalyzed Waterbased Epoxy K45/ K46-150 Series. 	
					PP6 Pitt-Glaze WB1 Interior Pre-Catalyzed Water-Borne Epoxy 16-310 / 16-5:0.	
1						
		Metal fabrictions	Prim er coat		DTM Rust Inhibitive Frimer Sherwin Williams B66W1 or B66W310 DTM Primer.	 Steel doors and frames and miscellaneous items including pipes ducts, equipment and related brackets
					PPG Pitt-Tech 90-712 or 90-912 Series DTM Primer.	and supports), includes factory primed and galvanized galvanneal metal.
T			Top coats (2 coats)		●HIPAC Latex ■WB Epoxy	garvanious inogs.
#		Primed Miscellaneous Metals and	Primer coat			
		Architectural Metals supplied by Division	Printer coat		●In accordance with Section 05 50 00 and as recommended by top coat manufacturer	
†		05.	Top coats (2 coats)		◆HIPAC Latex	Refer to Section 05 50 00 for locations
1					•WBEpoxy	
1		Dressed lumber	Primer coat Top coats (2 coats)		PP6 Dulux Gripper #50000 HIPAC Latex	
\pm		Gypsum board	Primer coat		●Dulux X-pert #11000 or Dulux Ultra Zero VOC #97600	
			Top coats (2 coats)		●HIPAC Latex ●WB Epoxy	
\pm		Colour schedule		PT1 PT2	Benjamin Moore: Chartilly Lace #2121-73	
\pm				PT2 PT3	TBD TBD	
		0 - Specialties Pre-manufactured shower enclosure				
+						
T		Shower alcove base and backwalls			Model: DreamLine Q'WALL-5 Shower Ease and Backwalls – 60" QWall-5 Backwalls and Single Threshold SlimLine Base	
					◆Size: 34"Dx60"Wx76 1/4" H	
4					Prain Location: Right Colbur-White	
1	0 26 23	Wall and Door Protection		un:	AN- D	Alban Obela Islanda
		Wall and door protection	Panel	WP1	Alto Puraguard 4x9'(W139) or 4'x10' \(\text{IV}\) 135] panel. Colour: White	Altro: Chris Johnson cjohnson@altro.com
+			Accessories		Continuous joint strips	416-428-3964
					Stat + edge trim External / internal correners	
					Stanless steel corners Cap strips	
+				-	• Altortile gaskets	
1	0 28 00	Washr∙om and JanitorAccessories				
#		Schedule	Grab Bars	GRB1	Bobrick 38mm Diameter Straight Grab Bar, 610mm (Horizontal)	
#			Grau pars	GRB2	Bobrick 38mm Diameter 90 Degree Grab Bar, 762mm x 162mm	
4					Finish: Type 304 stainless steel with "NAAMM Brushed No.4" finish with 'knurled' gripping suiface	
\pm			Hand Dryer	HCD1	Dyson Airblade V	
\pm				1	Finish: Sprayed nickel	
			Mirror		Bobrick B-165 2436, 610mm x 910mm	
\exists			Soap Dispenser		•TBD	
\exists			Toilet Paper Holder	TPH	Bobrick 'Jumbo-Roll Surface-Mounted Toilet Tissue Dispenser E-2890'	
1	0 73 13	Retractable Exterior Awning Exterior awning		FC1	■Rolec 'Adalia Extreme X3M'	Lester Awnings 705-742-5405
+					Fabric:Flame Retardant Fabric FIRESIST	https://lesterawnings.com/contact/
	Division 1	1 - Equipment			Comp. Defends Danielas APRO	
	1 13 19	Loading Dock Leveler and Accessories			Serio - Refer to Drawing A700	
		2 - Furnishings				
		Entrance Floor Mat Entrance Floor Mat			●Matsinc, 'Grate Mat XT'	●Entry Vestibules
+					Aluninum body, carbonundrum insert (charcoal)	

			Septem
		Construct typical wall assembly installation showing all applicable details.	
47.40.40			
07 46 46	Cemer	ntitious Cladding Construct minimum 10 m2 (100 ft2) area of each typical wall assembly installation	
		showing all applicable details.	
07 62 00	Metal	Flashing	
		Provide on-site mock-up of the following:	
		Coping flashing. Roof edge flashing.	
		Counter flashing.	
		• Fascia flashing.	
		Special flashing conditions	
09 31 00	Tiling	Drovide grouted recek up: 1220 page v 1220 page (49" v 40") careple papels of each tile type and	
		Provide grouted mock-up: 1220 mm x 1220 mm (48" x 48") sample panels of each tile type and colour, texture, size, and pattern of tile and grout.	
		, , ,	
		Install each product and colour mock-up for acceptance by Consultant. Accepted	
		mock-up shall form basis of standard of workmanship for remainder of work. Mock-up shall consist of floor/wall/base corner intersection including cove base inside and outside corners, with 300 mm	
		(12") of finish product on each face.	
09 65 13	Prema	nufactured Bases	
		Premanufactured base mock-up shall include at least one inside corner, one outside corner plus 3 m (10'-0") of straight run.	
		ouside comer plus o mi (10-0) or subjectum.	
	0 1: -	alatic Mad Observed	
09 65 18	Slip R	esistive Vinyl SheetFlooring Provide mock-up of sufficient size to indicate adhesion, joint welding, edge treatment, and coved	
		base.	
09 91 00	Paintir	nq	
		Provide full finished mock-up installation of each paint colour, for indicated surfaces and mock-up	
		size, showing colour and finish selected by Consultant, under lighting conditions matching final	
		area lighting, for acceptance by Consultant. Locate at Place of the Work as part of finished installation if accepted.	
	Exterio	or Improvement	
	Concr	ete Reinforcement Submit engineered shop drawings for reinforcement	
		Cashat Cagaires of viring to relinitediment	
	Cast-ii	n-Place Concrete	
		Submit certified mix designs for each type of concrete to be used, stating the specific location, using structural element for which the mix applies and 305 mm (12") x 305 mm (12")	
		sample of specified finish.	
	Metal	Fabrication	
	.rictal	Submit engineered shop drawings of all exterior metal work, including, bollard, sign post, handrail	
		at cip concrete steps and ramp, and chain link fence. Provide in shop drawings plans, sections and	
		large scale details. Indicate components and methods of assembly, materials and their characteristics, fastenings, metal finishes, welds, and their structural characteristics relative to their	
		purpose, and other fabrication information required. Indicate site connections and methods.	
	Site Fu	ımishing	
		Submit engineered shop drawings and product data sheets of bench, movable planter & bench,	
		and tactile place.	
	Topso		
		Product data sheets:	
		Submit data describing planting mix components and certificates indicating that the materials meet specification requirements for review a minimum of 45 business days prior to	
		planned installation of planting mix.	
		Submit samples of planting mix components for approval a minimum of 45	
1		Submit samples of planting mix components for approval a minimum of 45 business days prior to planned installation of planting mix with clear label on samples with relevant	
		identifying characteristics including but not limited to the type of material, percentange of each	
		component materials, source and stockpile location, and manufacturer contact information.	
		Samples to be submitted for review and acceptance	
		at the same time as test reports.	
		at the same time as test reports. <u>Test reports:</u>	

						August 25, 202
	SECTIONS Specificatio		SPECIFICATIONS AND SYSTI	Acronym		General Locations / Notes / Contacts
		Bituminous Dampprofng			□ampproofing coating, for ambient and substrate temperatures below 5°C. □Primer: Penetrating asphall primer, to CGSB 3.7.C-9-Mel-1983. □ampproofing coating, for ambient and substrate temperatures above 5°C. ■Mineral colloid asphalt emulsion: to CAN/CGSB 3.7.2-M88.	•Foundation walls
	07 21 00	Thermal Insulation				
			on and below grade applications Rigid X2S insulation board on for wall and soffit applications	INS-10	Syrctoam SM' Corning 'Foamular C-300'.	Below grade vertical and horizontal applications.
			Semi-rigid dual density mineral-fibre insulation board (cavity wall type).	INS-22	◆₹odkwool Carityrock	Cavity wall assemblies. Rain screen assemblies.
			erm al insulaton for roof systems Rigd polysocyarurae insulation board Flat and tapered	INS-52	●Refer to Section 07 52 16	Roofing assemblies
		Th	erm al insulaton for roof systems Mineral-fibra Acoustic Fire Batt (AFB)	INS-60	●Refer to Section 09 29 00	Gypsum board partitions.
	07 21 29	Sprayed-Applied Foamed-on Place				
		Spray feam insulation Spray feam insulation Sprayed protective thermal barrier			EASE Building Systems Wallfle - (MIT) Carlisle SprayFoam insulation 'Seaffite One' Demillec Inc. 'Heafor'Soya HFO/Polarbam SOYAHFO' Elastochem Specalty Chemitals Inc. 'Insultnane Extrame' Sogrema Spora SPF 207: Thermal barrier that needs the raquirements of classification B when tested in conformance with CANAULC-S124. The stort the Evaluation of Protective	Soffit locations
	07 26 16	Below-Grade Vapour Barrier			Coverings for Foamed Plastic'.	
	07 27 00	Underslab vapour barrier Air Barrier Systems Sheet-Applied, Vapour Impermeable Salf-		AVB	Mirimum 0.38 mm (15 mils) Stego Industries 'Stego Wrap Vapor Barrier'. WR. Meadows "PERMINATOR". GCP Applied Technologies 'Perm-A-Barrier Wall Membrane'.	Interior concrete slabs on grade Exterior assemblies
		Adhesive Air/Vapour Barrier Membrane System		AVB	Henry Company 'Blueskin SA' and 'Blueskin SA LT Soprema 'Sopraseal Stick 1'00 T'. W R. Meadows 'Air Shield' and 'Low Temperature Air Shield'	
		Vapour permeable weather barrier membrane			SRP AirOutsPielc Wall.	Exterior assemblies - directly behind cladding panel
	07 44 63	EPS Moulding with Cementitious Coating Parapet exterior moulding		MLD1	Canamould Exterior Mouldings	
		Parayet exterior modifying		IMILD	●Profile: BAN-012 / Size: 7 1/2" x 24 1/3" ●S-Motd - Reinfording Mesh & Cementitious Exterior Coating	
	07 46 46	Cementitious Cladding	***	Y	Colour Custom Y Y Y Y Y Y Y	* * * * * * * *
					3 Board Thickness 0.312 (8mm) 4 Finish: Cedar Mil 5 Colou: Colour Later Chosen By Consultant — From Non Standard Dream Colour Collection: Accessories: 6 Exterior Base at Grade: 100mm high Royal Board — 9760 SurEdge 7 Batters: Hardie Trim Batten Board — Rustic 19mm thick x 64mm Wide; rradinum 12-0' lengths O dustied Corner: 54 101mm Wv25nm Thick Hardie Trim Boards 9 Perimater and Window Trim: 544 101mm x 25mm Thick Hardie Trim Boards 10. Flashing: Provide elumium flashing et all horizontal window trims 11. Trim Fasterers: Hardie plat taps for Concelled Fastering 12. Colour: To match Hardie Panel Vartical Siding 13. REFER TO HARDI TRIM MANUAL FOR TYPICAL TRIM, FLASHING AND INSTALLATION DETAILS	
		Cementitious cladding wth custom trim		CC2	-James Hardie Flat Panel -Panel Size 41x8" 71f6 thick -Custom cuts to suit panelling design and profiles -Primed for field painting.	https://www.jameshardie.ca/products/hardetrim- boards
		Trins	Exterior Interior		wirratec EXT IRA Fanels Decorative Wood Trims	https://miratecextira.com/extira-exterior-panels/ https://monaghanlumber.com/wp- content/upicads/2016/10/Special-Order-Moulding- Cataloque_cdf
ر	07 52 1	Styrene-Butadiene-Styrene (SBS) Moorred Bituminous				
-		Membrane Roofing SBS Modified Bitumen roofing system				
		Extended warranty Acceptable manufacturars			20 year total system warranty including labour, meterials, and installation quality. 4-box dollar limit. 4-leny Company. 3-borns Manville. 3-piast. 3-piast. 3-piast.	
		Nembrane installaton	Acceptable application methods		-fremco. -fot-applied SEBS (base and cap sheets) or asphalt applied base/fot-applied SEBS (base and cap sheets) or asphalt applied base/fot-applied seps sheetfot-applied SEBS (base and cap sheets) or asphalt applied base/freat-widded (troth) applied cap sheetfot-applied adhesive applied base sheet/heet-welded cap sheetfot-abstactied hase-sheet/heet-walded can sheet.	
		Materials	Roof membrane base sheet		SBS-modified asphalt membrane sheet with reinforced elastomeric	
			Roof membrane cap sheet		btumen. GCSB 37.56Type C. Grade 3, composite reinforced. SBS-modified asphalt membrane sheet with reinforced eastomeric bitumen, protected by coloured granule. GCSB 37.56Type C, Grade 1, composite reinforced.	
			Substrate board / Parapet sheathing board		GCC Securock Brand - Coaled Glass-Mat Roof Board' Georgia Pacific 'CensDeck Prime Roof Board with Ecnic Technology'	
			Airand Vapour Barrier	INS-51	Self-adhering sheet, minimum of 0.8 mm (30-mil) thick, polyethylene fill laminated to layer of rubberized asphalt adhesive; cold-applied, with slip- rissising sufface and release apper tacking. *Rigid polylsocyanurate insulation beard, inorganic felt faced. *AuxIUL STA-41 Tippe 2 and Class 2. HCFC free, 138 kPa (20 ps)	
					minimum compressive strength.	
			Asphaltic cover board Pre-cast concrete pavers	_	Multi-ply, semi-rigid asphaltic roofing substrate board Armtec 'Natural Small Diamond'	

SECTIONS Specification		SPECIFICATIONS AND SYST		Product(s)	General Locations / Notes / Contacts
Specification				Basis of Design	
	Sliding service window		SW1	Horton Automatics, 'Series 8900'. Door type: XO	◆Exterior - Refer to drawing A710.
				Manual pul, thumb lock. Finish: PPG_Duranar XL_custom_colour.	
08 71 00	Finish Hardware			Cash allowance	
08 80 00	Glass and Glazing		1		Refer to Drawing A710.
	Insulating glass unit		IGU	Double glazed, sealed insulating urits: Warm edge, hermetically sealed, CAN/CGSB 12.8-97, minimum 12 mm	
				(1/2") air space, 90% argon/10% air filled, desiccant filled warm edge spacer.	
				●Low 'E' coating: VITRO 'Solarban 60'.	
			_	Warm edge spacer, stainless steel. Preico 'R-Max'	
				Fenzi 'Chromatech Ultra'	
	Glass types		+	Annealed glass	
				Heat treated (tempered of heat strengthened) glass Laminated glass	
				PVB, not less that 0.76 mm (0.030") thick, clear.	
Division 0	9 - Finishes				
	Metal Supports for Gypsum Board			4	
		id cement ocard partitions, intend	orcellings, six	attwalls, and interior assemblies as indicated	
09 29 00	Gypsum and Cement Board Schedule				
	00.100010	Interiorwalls		●Impact resistant gypsum board, mosture and mould resistant, Type X,	
			_	16mm thick. • CertainTeed 'Air-Renew Extreme Impact Resistant Board'.	
				CG C 'Sheetrock Brand Panels Mold Tough VHI Firecode X'	
				Georgia-Pacific 'DensArmor Plus Impact-Resistant Panel'. National Gypsum 'High-Impact XP'.	
			+	Lafarge 'Protecta HIR 300 Type X with Mold Defense'	
		Interior ceilings		◆Abuse resistant gypsum board, moisture and mould resistant, Type X,	
			+	16mm thick. ◆CertainTeed 'Air-Renew Extreme Abuse Resistant Board'.	
				CG C 'Sheetrock Brand Panels Mold Tough AR'.	
1				Georgia-Pacific 'DensArmor Plus Abuse-Resistant Panel'. National Gypsum 'High-Abuse XP'.	
			+	Lafarge 'Protecta AR 100 Type X with Mold Defense'	
1		Tile backer board, interior		Glass scrimmed, Type X, 16mm thick.	
+		walls and ceilings	+	CertainTeed 'GlasRoc Diamondback Tile Backer'.	
+			+	Georgia-Padific Dens-Shield Title Backer.	
		Exterior grade sheathing		Fibre glass mat faced, Type X, 16mm thick.	
				CertainTeed 'GlasRoc Sheathing'. CG C 'Securock Glass-Mat Sheathing'.	
				Georgia-Pacific 'Dens-Glass Golc'.	
+			_	Lafarge ;Weather Defense Platinum Sheathing*.	
		Acoustic insulation	INS-60	Mineral-fibre acoustic fire batts Johns Manville 'MinWool Sound Attenuation Fire Batts'. Manual Communication Fire Batts'.	
				Owens-Corring 'SAFB'.	
			_	Rockwool 'AFB'	
		Seamless drywall vents		Vintage Grilles Pattern: Senta Experimentary	http://canamould.com/wp/wordpress/wp-
				Pattern: Santa Fe or Herringbone.	content/upicads/2019/12/CANAGRILLE-brochure-1.pdf
09 31 00	Tiling				
	Schedule	Floor tile	TL01	◆Centura Tile 'Time 2.0'	Public washrooms
			1001	•Size: 300mmx300mm	Constitution of the consti
				Colour: TBD - Black #66T29NR or Grey #36T27NR or Carbon #36T28NR	Centura Tile: Elizabeth Livingston elivingston@centura.ca
+			TLOG	«Dalkio or American Ologo — Massis Calaum Bartin Browning	416-434-8626
			TL02	Dalfile or American Olean – Mosaic Colour Body Porcelain Size:1" Hexagon	Front do or mat
				Colour:BlackA33 / Ice White A25 Custom hand laid pattern	Daltile: Warren Booth warren.booth@daltile.com
				2-Sustain name name pattern	warren.co.om@dattile.com 905-738-2099
		Wall and ceiling tile			
			TL 10	Centura Tile 'Vitra' Size:100mmx400mm 9016 Subway Tile	Washroom and Showe rareas Kitchen prep areas
1				Colour: Bright White Matte and Gloss mix (60%Matte / 30%Gloss)	
1				Pattern: Vertical, 1/3 Offset Bond	
$\uparrow \searrow$			Y \	• Sorner Nm: Schulter JOYLY, Browned Anydized Yruminum, Satiri y fear	
+ • • •		· · · ·	TL11	Centura Tile 'Concave' Size 1"x6" (12"x12" sheets)	Bistro Area feature tile ceiling and wall
				Size:3" x 4" x 6" Colour: Pottery White Mosaic BHTH01036 (TL11a) and/or Celadon Green The colour state of the colour state	
				Mosaics BHTH06096 (TL11b)	
		\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TL12	Certura Tilet Plain Oplours'	Staff kitchen backsplash
$\overline{}$	$\sim\sim$	\sim			
				Colour: White Ice IN08136M, matte	
		Thinset mortar / bond coat - Walls and Floors		Laticrete 254 Platinum Mapei Ultraflex LFT	
		Thinset mortar / bond coat -		Laticrete 254 Platinum	
+		Ceilings Epoxy grout	+	Mapei Ultralite S2 Laticrete SpectraLock PRO	
-			+	Kerapoxy CQ	
09 51 23	Acoustical Tile Ceilings				
	Acoustical Tiles		ACT1	Rockfon Sonar Scuare Lay-in, (TBD), white. 24" x 48" standard imperial sizes.	Staff admin area
	Chr 1		_		
	Standard suspension system.			Armstrong 'Preluce XL 15/16" Exposed Tee System'.	
09 62 90	Tactile Warning Surface Indicators Tactile Warning Surface Indicator (TWSI)			Detectable Warning Surface Title:	●Exit Stairs
	Polymer			Kinesik 'Ecn Tile'.	Juli 3
				Surface mount tactile warning surfacing tiles with integral domes.	
09 EE 12	Premanufactured Bases				
09 65 13	Premanufactured Bases Rubber base			Tarkett 'Millwork Wall Finishing System', wall base.	
				Profile: "Mandalay" Height: 115 mm (4 1/2"), 76 mm (3"), 64 mm (2 1/2").	
				Thickness: 9.5 mm (3/8").	
09 65 18	Slip Resistive Vinyl Sheet		+	Colour: to later selection.	
1	Flooring		057.	Aller Order Florida Phrasis III and Aller Florida Phrasis III and	alifaber Debugging Comments
	Slip Resistive Vinyl Flooring		SFT-01	Altro Safety Flooring 'Stronghold 30' with integral cove base. Colour: Dolphin K3010	●Kitchen, Dshwashing, Prep areas
				Heat welded seams	Altro: Chris Johnson
					cjohnson@altro.com 416-428-3964
09 65 60	Resilient Flooring Resilient Flooring		RFL1	Centura 'Roppe Northern Timber' vinyl wood plank, giue down	Kitchen and staff areas
	Vazillalir Liootud			•Size: 4" x36"	
1				Colour: 272 Limed Beige Oak	Centura Tile: Elizabeth Livingston elivingston@centura.ca
	1				elivingston@centura.ca 416-434-8626
09 67 00	Fluid Applied Floor Coatings				
09 67 00	Fluid Applied Floor Coatings Fluid -Applied Epoxy Flooring		EPFC1	Stonhard 'Stonekote GS4' Colour: TBD	Back of house areas, exit stairs, under pedim at

				September 29, 202
•	rs Grocery Store			September 29, 2021
opecii	Tations Wath - Supp	T	,	
03 - \$	Submittals			
		-:44 - 1 -		
	Engineered Subi		ry Procedures	
			Submit engineered shop drawings for the following:	
			Masonry reinforcement Masonry ties and connectors	
	25.44.40	ļ		
	05 41 13	Load-E	Bearing Cold-Formed Metal Framing Submit engineered shop drawings, including design, connections and restraint of wall and soffit	
			assemblies. Field review requirements to be supplemented to include the following:	
			Checking that mill test reports are properly correlated to materials. Secretary of the rest in a great in a properly correlated to materials.	
			Sampling fabrication and erection procedures for general conformity to requirements of the Contract Documents.	
			Checking fabricated members against specified member shapes.	
			Sample checking of screwed and bolted joints. Sample checking that tolerances are not exceeded during fit-up or erection.	
			General review of field cutting and alterations required by other sections.	
			Include necessary shop details and erection diagrams. Indicate member sizes,	
			locations thicknesses exclusive of coating, coatings and materials. Include connection details for	
			attaching framing to itself and for attachment to the structure. Show splice details where permitted.	
			Indicate dimensions, openings, requirements of related work and critical installation procedures. Show temporary bracing required for erection purposes.	
			Indicate design loads and design calculations, including horizontal and vertical	
		_	reactions at connections to building structure for all load cases.	
	05 50 00	Metal I	Fabrications	
			Submit engineered shop drawings including plans, sections and large scale details. Indicate	
			components and methods of assembly, materials and their characteristics, fastenings, metal finishes, welds, and their structural characteristics relative to their purpose, and other fabrication	
			information required. Indicate site connections and methods.	
	08 42 29	Autom	atic Sliding Entrance Doors Indicate fastering system for anchorage of door frame to opening, and structural	
			design for each door type and size.	
	09 22 00	Metal	Supports for Gypsum Board	
	00 22 00	mota	Submit engineered shop drawings for ceiling assemblies.	
	Mock Ups			
	03 35 03	Polish	ed Concrete	
			Provide 3050 mm x 3050 mm (10' x 10') mock-up at the Place of the Work as part of final	
			installation for approval, location to be directed by Consultant. Allow for three mock-up areas to determine aggregate exposure classification and polish level	
	04.04.00	Def et l		
	04 21 00	Впскі	Assonry Units Provide complete in-situ mock-up wall assembly, in location designated by the	
			Consultant, prior to the commencement of fabrication and installation of such components.	
	04 22 23	Archite	ectural Concrete Masonry Units Provide complete in-situ mock-up wall assembly, in location designated by the	
			Consultant, prior to the commencement of fabrication and installation of such components.	
	06 40 00	Archite	ectural Woodwork	
			Provide mock-ups for the following, sizes and locations as directed by the Consultant Solid surfacing countertops and fabrications.	
			Wood ceilings panels.	
			Factory and site finishing of architectural woodwork.	
	06 40 13	Exterio	or Architectural Woodwork	
			Provide mock-ups for Kiosk area.	
	07 27 00	Air Ba	Tier Systems	
	1 1		Construct minimum 10 m2 (100 ft2) area of each typical wall assembly installation	
		+	for each type of Product.	
	07 44 63	EPS M	oulding with Cementitious Coating	

Sayers Grocery Store	Specifications Matrix	Page 3 September 29, 2
	Unit Paving Product data sheets:	
	Submit product data sheets for each paver type and colour	
	Shop drawings:	
	Submit shop drawings including bedding, bonding, jointing and setting details, and the	
	dimensions and identifying number of each piece of stone with indication of sizes, thicknesses,	
	dimensions, layout, finishes, compressive strength, joint and setting mix designs, jointing	
	clearances, clearanced between pavers and the adjacent building element.	
	Samples - paver:	
	Submit 6 full size samples of each paver type and colour to show texture, finish, and range of	
	colour to be supplied.	
	Samples - setting bed and joint ill material:	
	Submit samples of setting bed and joint filler material.	
	Design Calculations:	
	.1 Submit design calculations for paving assembly as prepared by qualified	
	professional engineer registered in the Place of the Work.	
	.2 Submit design calculations complete with references to codes and standards used	
	in such calculations, supporting the proposed design represented by the submittal.	
	Prepare calculations in a clear and comprehensive manner.	
	.3 Upon completion of the parts of the Work covered by the design calculations, the	
	professional engineer responsible for the preparation of the design calculations	
	and for undertaking the periodic field reviews described above, shall prepare a	
	letter of general conformity for those parts of the Work, certifying that they have	
	been provided in accordance with the requirements both of the Contract Documents and of the authorities having jurisdiction over the Place of the Work.	
	Test data:	
	.1 Provide test certificates of tests carried out by an independent testing laboratory	
	verifying that stone meets the specifications, for each colour of stone. If certificates	
	are not available, retain an independent inspection and testing company to carry	
	out the tests, minimum of 3 specimens for each test unless otherwise specified in	
	ASTM. Submit test certificates to Consultant at least 8 weeks before commencing	
	stone installation	
	.2 Provide certificate signed by manufacturer that the stone materials to be	
	supplied comply with specified performance characteristics and physical	

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.

REVISIONS AND ISSUES DESCRIPTION DATE ISSUED FOR SPA 210618 REVISED SPA 210709 REVISED SPA 210809 ISSUED FOR TENDER 210824 ISSUED FOR BUILDING PERMIT 210909 TENDER ADDENDUM #1 210914 TENDER ADDENDUM #2 210917 TENDER ADDENDUM #3 210923 TENDER ADDENDUM #4 210927 TENDER ADDENDUM #5 210929

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134 PETER STREET, SUITE 1301 TORONTO, ONTARIO, M5V 2H2 TEL 416.593.5300 FAX 416.593.4840

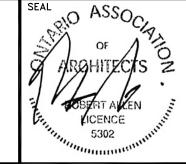
SMITH + ANDERSON MECHANICAL AND ELECTRICAL ENGINEERS

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SAYERS FOOD LIMITED

132 BURLEIGH STREET t: 705.656.4531 e: sayers@apsley.ca

NORTH ARRO



PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

OUTLINE SPECIFICATION

NTS

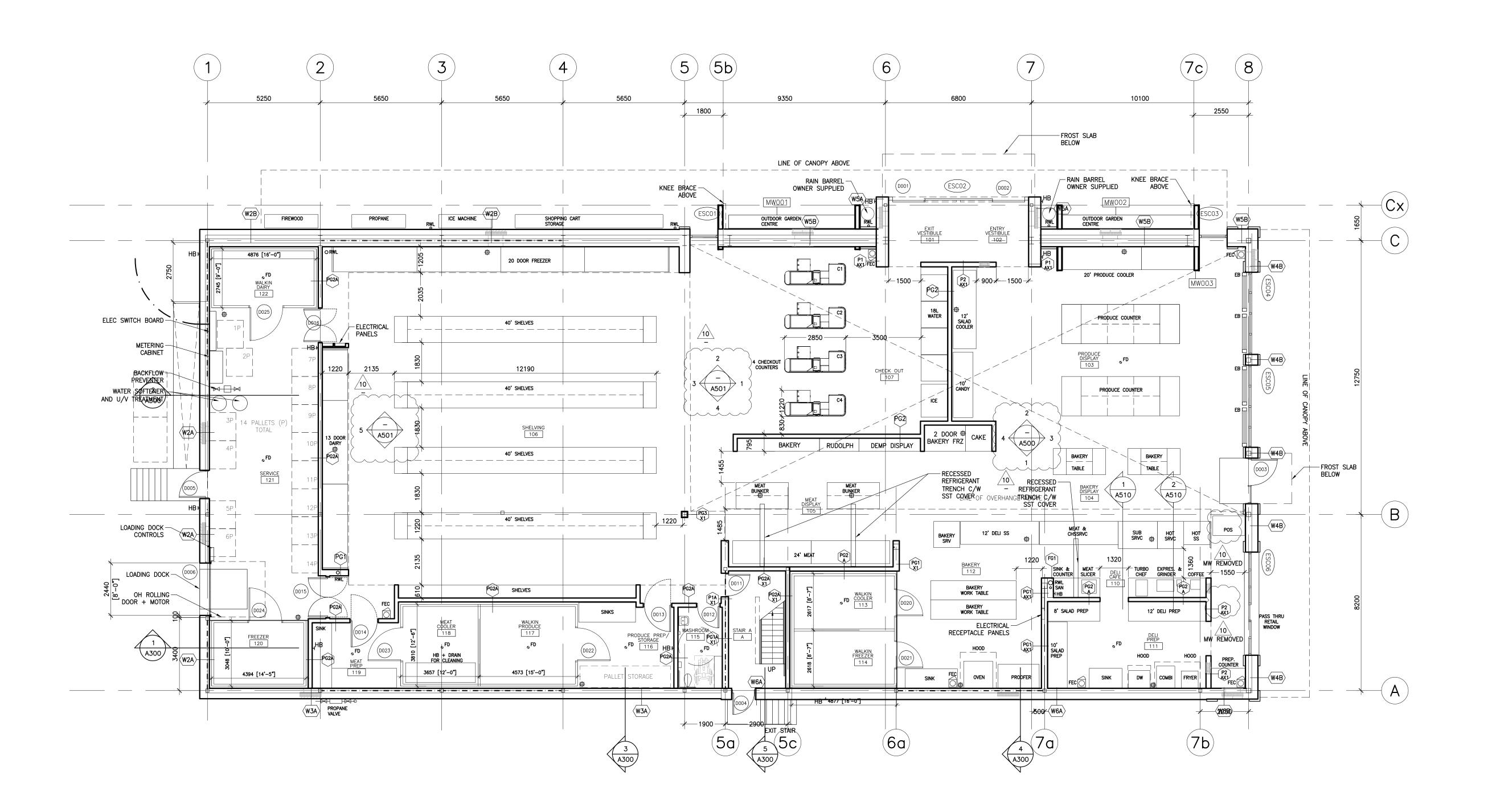
SEPTEMBER 29, 2021

PROJECT NUMBER

2102

DRAWING NUMBER

A021



	AND ISSUES		
REV	DESCRIPTION	DATE	BY
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2	REVISED SPA	210709	AB
3	REVISED SPA	210809	AB
4	ISSUED FOR TENDER	210824	AB
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10	TENDER ADDENDUM #5	210929	AB

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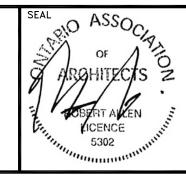
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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

GROUND LEVEL FLOOR PLAN

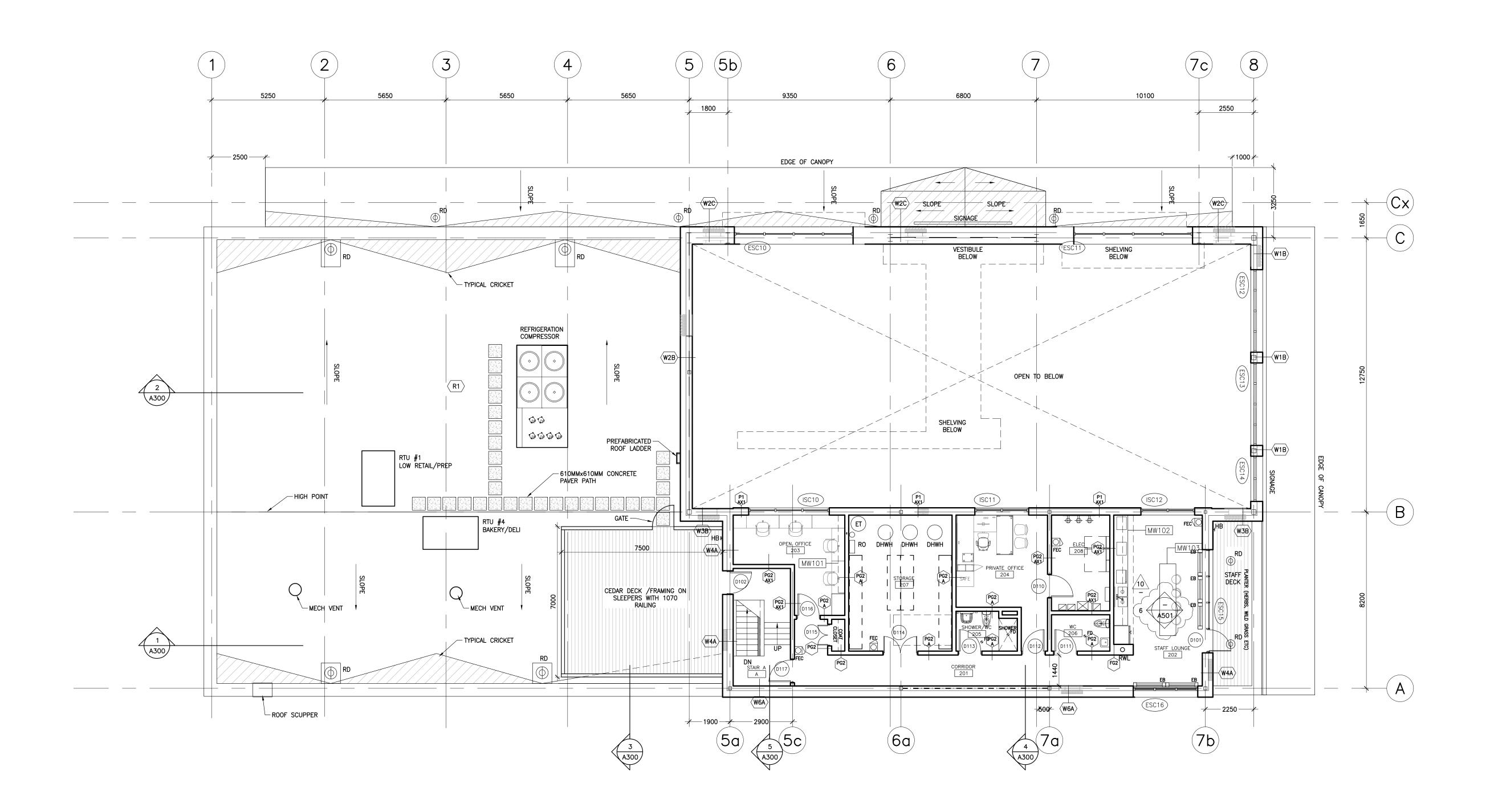
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SEPTEMBER 29, 2021

PROJECT NUMBER

2102 DRAWING NUMBER

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2	REVISED SPA	210709	AB
3	REVISED SPA	210809	AB
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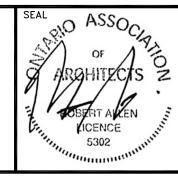
SMITH + ANDERSON mechanical and electrical engineers

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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

LEVEL 2 FLOOR PLAN

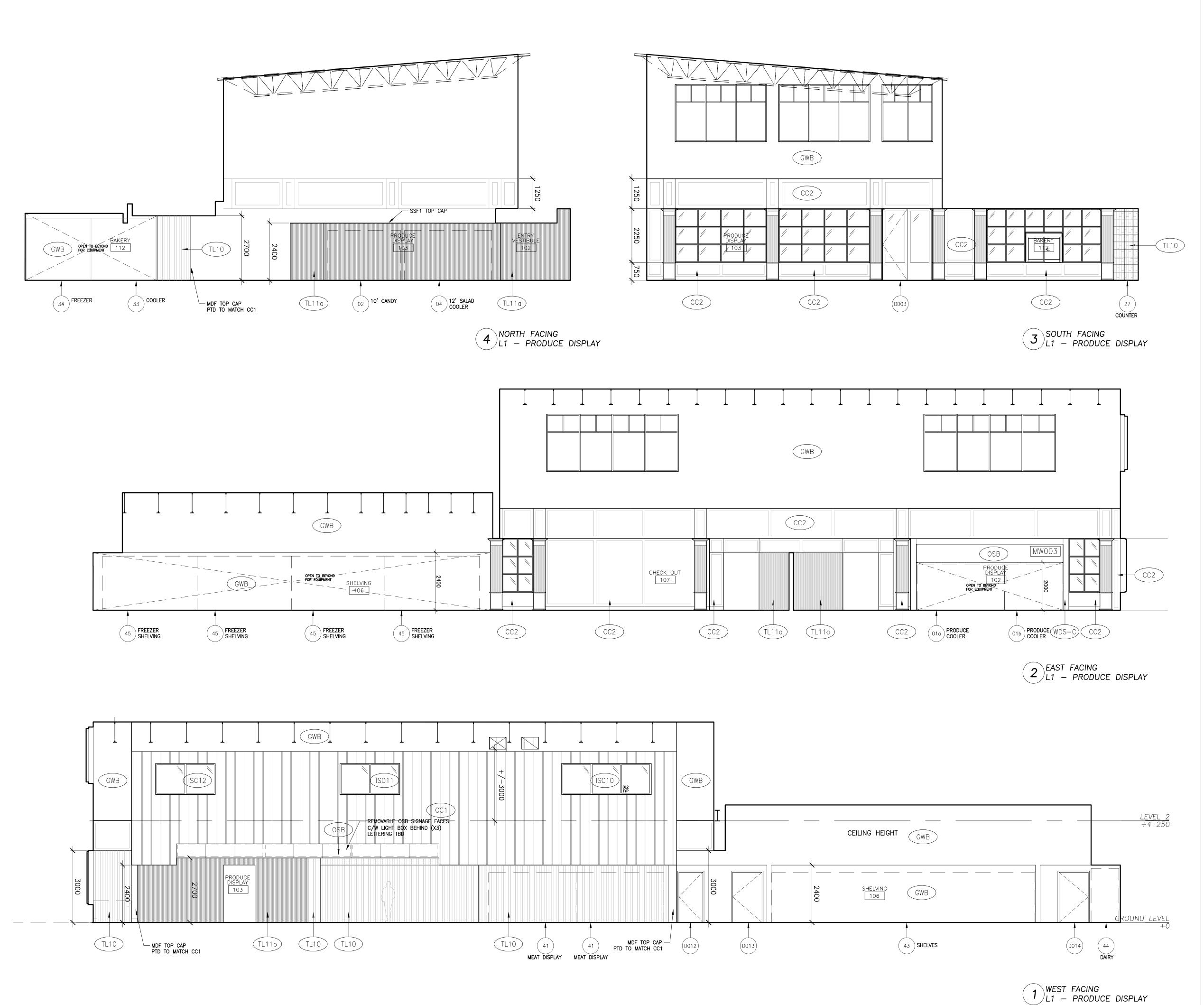
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SEPTEMBER 29, 2021

PROJECT NUMBER 2102

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2	REVISED SPA	210709	A
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5	ISSUED FOR BUILDING PERMIT	210909	A
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8	TENDER ADDENDUM #3	210923	Þ
9	TENDER ADDENDUM #4	210927	Þ

TENDER ADDENDUM #5

210929

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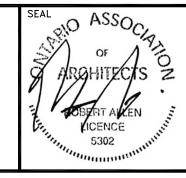
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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

INTERIOR ELEVATIONS

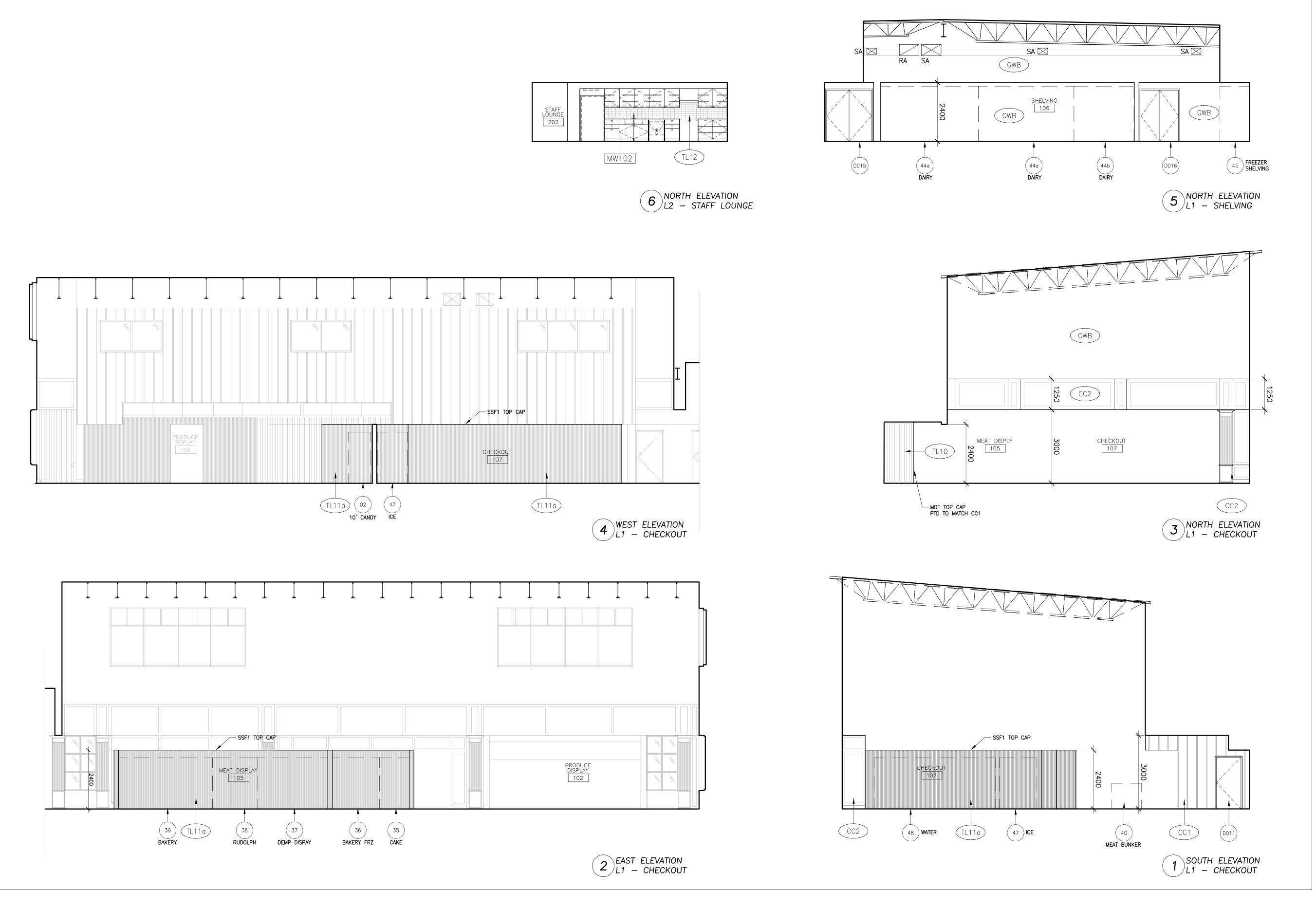
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SEPTEMBER 29, 2021

PROJECT NUMBER

2102 DRAWING NUMBER

A500



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2	REVISED SPA	210709	AB
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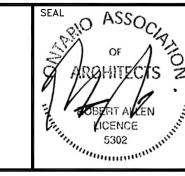
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1100 - 100 SHEPPARD AVENUE EAST TORONTO, ONTARIO, M2N 6N5
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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

INTERIOR ELEVATIONS
SCALE

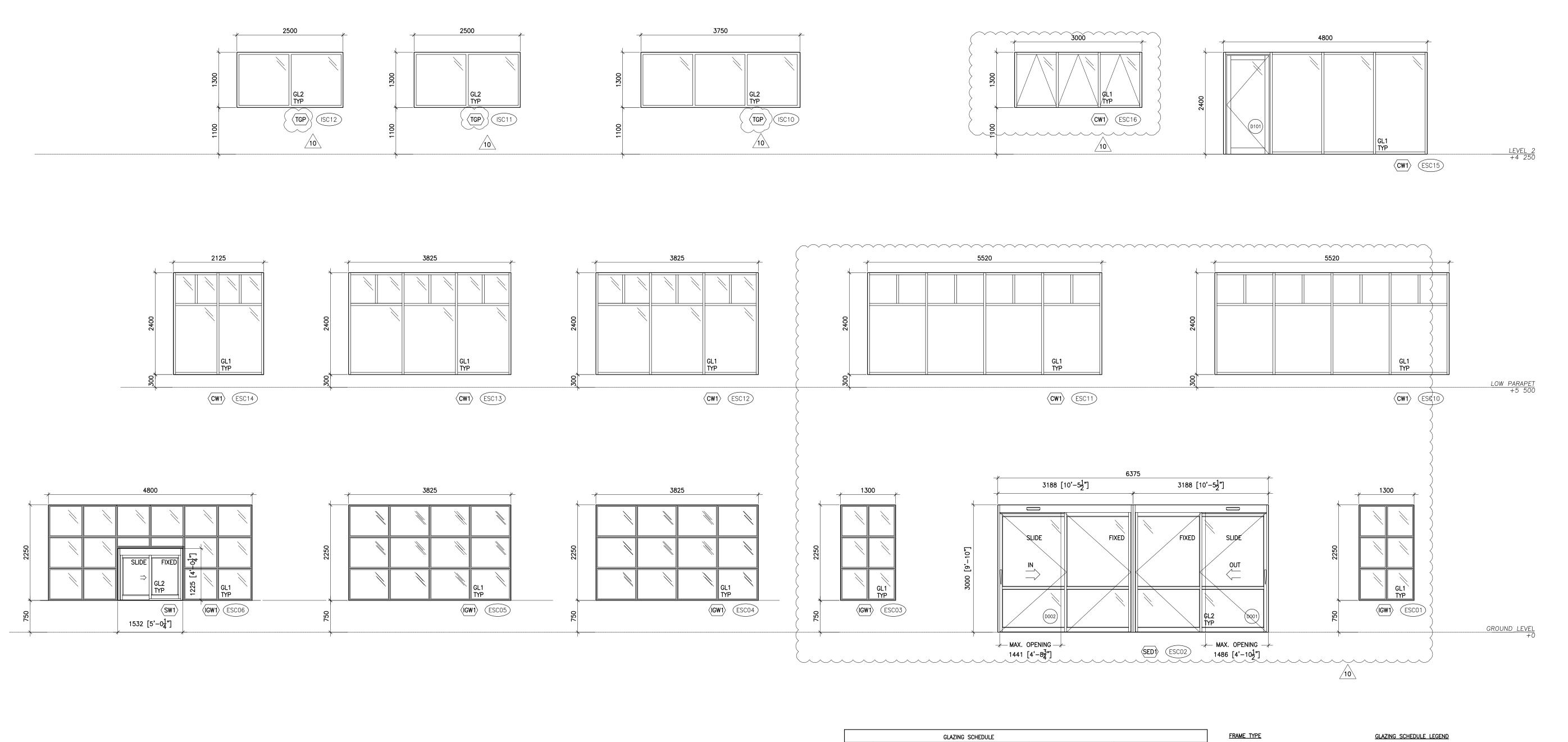
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SEPTEMBER 29, 2021

PROJECT NUMBER
2102

DRAWING NUMBER

A501



	LITE TYPE /	and thickness	LOW E COATH	NG .	CERAMI	IC COATING	GLAZING NOTE	IGW1 INTERIOR GLAZED WINDOW	GLASS TYPE:	LOW'E' COATING:
GLASS TYPE	OUTER	INNER	TYPE	SURFACE	Esc-Frit TYPE	Esc-Frit SURFACE		ALUMICOR SHADOWLINE 970 — THERMALLY BROKEN	FT FULLY TEMPERED	DS DOUBLE SILVER
GL1	FT 6mm	FT 6mm	DOUBLE SILVER	#2			TYPICAL EXTERIOR IGU, ARGON-FILLED, DESSICANT-FILLED WARM-EDGE SPACER BAR.	19mmx133mm PREPAINTED ALUM. SECTIONS GLASS: GL1 COLOUR: CUSTOM (TBD)	FRIT TYPE: FR1 SOLID OPAQUE FRIT	LAMINATED INTERLAYER: PVB POLYVINYL BUTYRAL
GL2	FIRE—RATED CERAMIC GALZING	-	-	-		_	SEE OUTLINE SPEC	CW1 CURTAIIN WALL ALUMICOR THERMAWALL TW2200 — THERMALLY BROKEN 50.8mmx101.6mm PREPAINTED ALUM. BACK SECTIONS PERIMETER MULLIONS AT 10P AND BOTTOM: 19mm CAPPED PERIMETER MULLIONS AT JAMBS: 19mm CAPPED INTERMEDIATE VERTICAL MULLIONS: 19mm CAPPED GLASS: GL1 COLOUR: CUSTOM (TBD)	2. LAMINATED GLASS: GLASS L	IINIMUM AND AS REQUIRED TO SUIT DESIGN REQUIREMENT. AYERS MINIMUM 3mm THICK UNLESS OTHERWISE INDICATED. DS WHERE REQUIRED. INDICATE LOCATIONS ON SHOP DRAWING.
								SED1 AUTOMATIC SLIDING ENTRANCE DOORS HORTON AUTOMATICS — PROSLIDE SERIES 2021 SLIDING DOOR SYSTEM WITH ELECTRIC BELT DRIVE OPERATOR DOOR TYPE: 310 — SX & SO OPTEXT I—ONEXT MOTION/PRESENCE DETECTORS AND M/S MANUAL LOCKING PREPAINTED COLOUR = CUSTOM (TBD) SW1 SLIDING SERVICE WINDOW	REFER TO PROJECT MANUAL 2. SEE PROJECT MANUAL AND 3. DIMENSIONS INDICATED ARE	LUM SECTION AS NECESSARY TO MAINTAIN SECTIONS AS SHOWN.
							<u>/1</u>	HORTON AUTOMATICS — SERIES 8900 DOOR TYPE = X-0 HEADER = 64mm LOW—PROFILE OPERATOR = RECESSED MANUAL PULL LOCK = THUMB LOCK PREPAINTED COLOUR = CUSTOM (TBD) TGP FIRE RATED GLASS AND FRAMING FIRE—RATED METAL FRAME AND GLAZING (45MIN. WALL FFR)		

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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8	TENDER ADDENDUM #3	210923	А
9	TENDER ADDENDUM #4	210927	А
10	TENDER ADDENDUM #5	210929	A

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BLACKWELL STRUCTURAL ENGINEERS

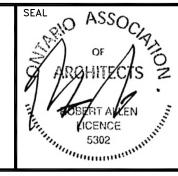
134 PETER STREET, SUITE 1301 TORONTO, ONTARIO, M5V 2H2 TEL 416.593.5300 FAX 416.593.4840

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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

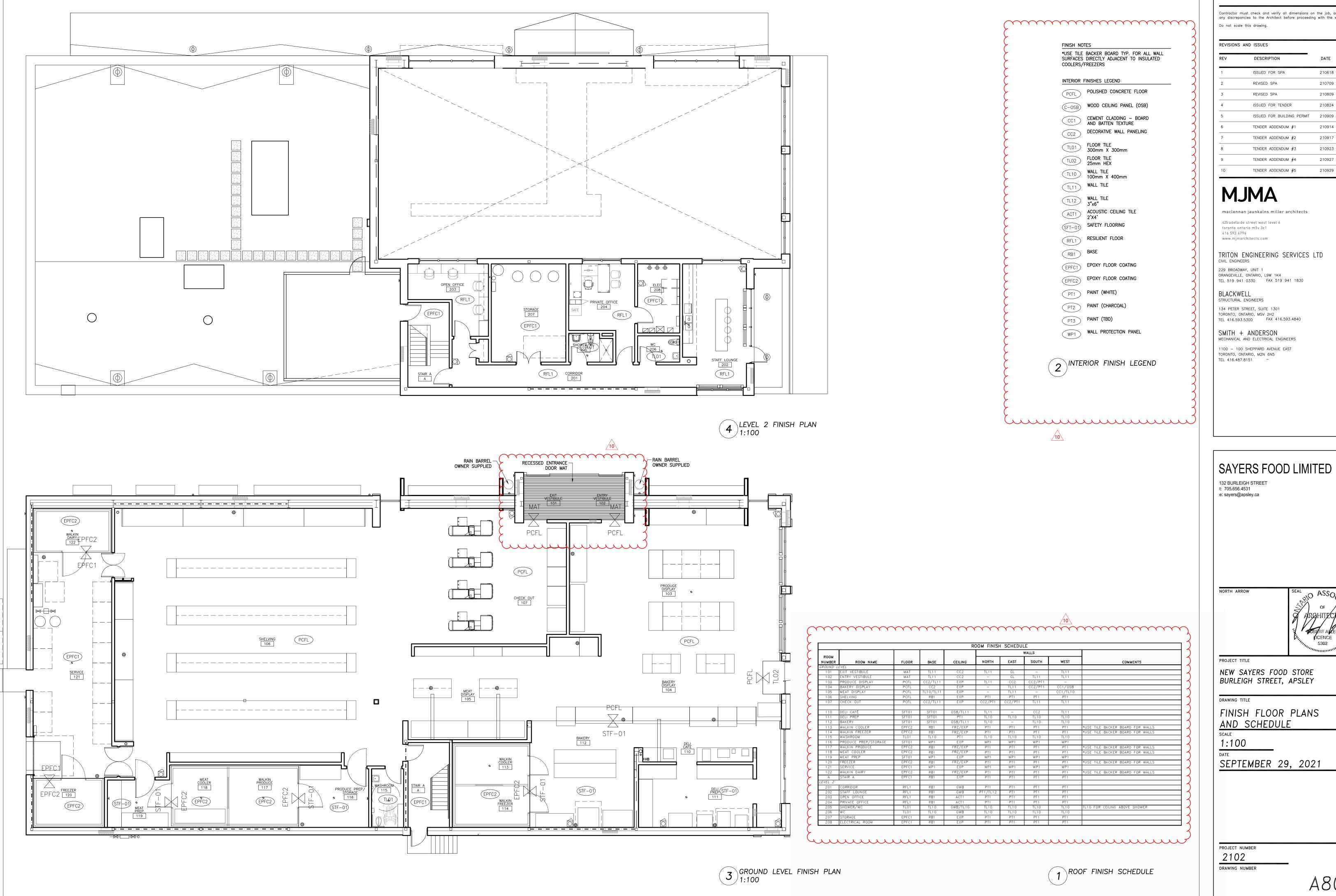
EXTERIOR & INTERIOR SCREEN SCHEDULES
SCALE

1:50

SEPTEMBER 29, 2021

PROJECT NUMBER 2102

DRAWING NUMBER



DATE 210618 210709 210809 210824 ISSUED FOR BUILDING PERMIT 210909 210914 210917 TENDER ADDENDUM #3 210923 210927

210929

maclennan jaunkalns miller architects

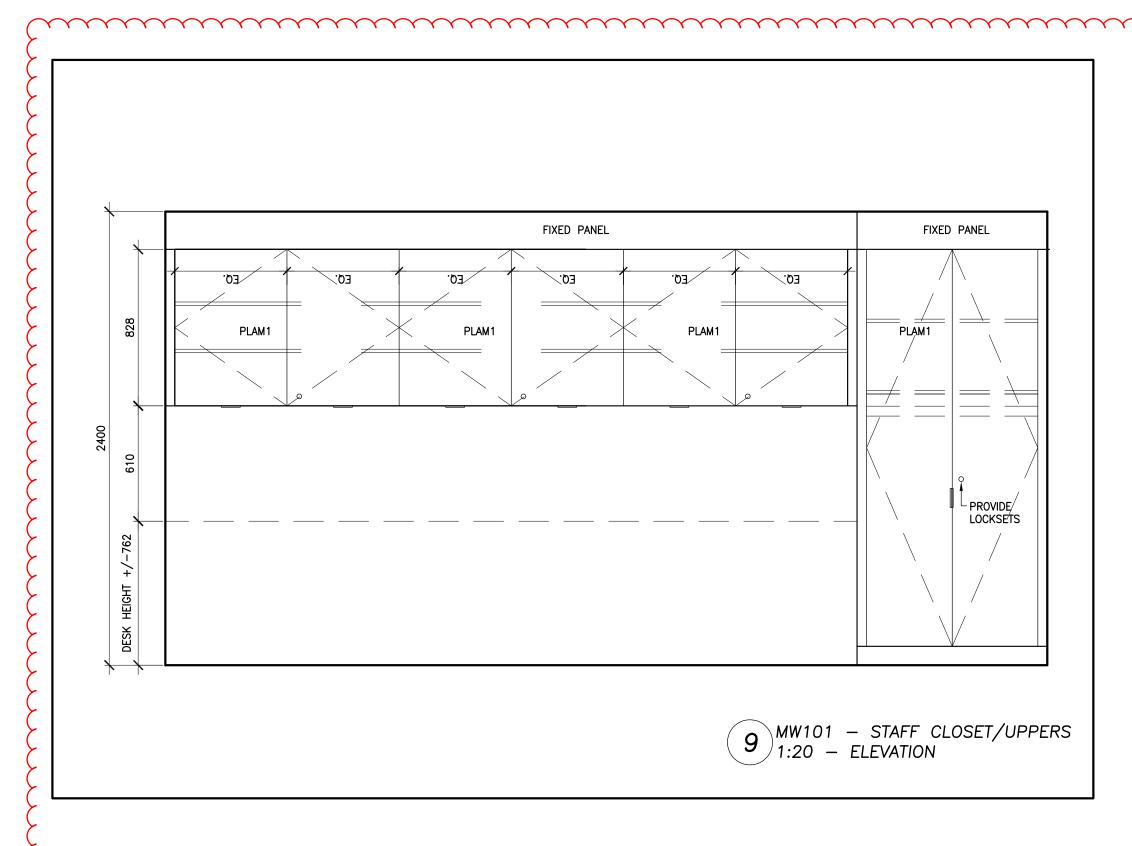
TRITON ENGINEERING SERVICES LTD

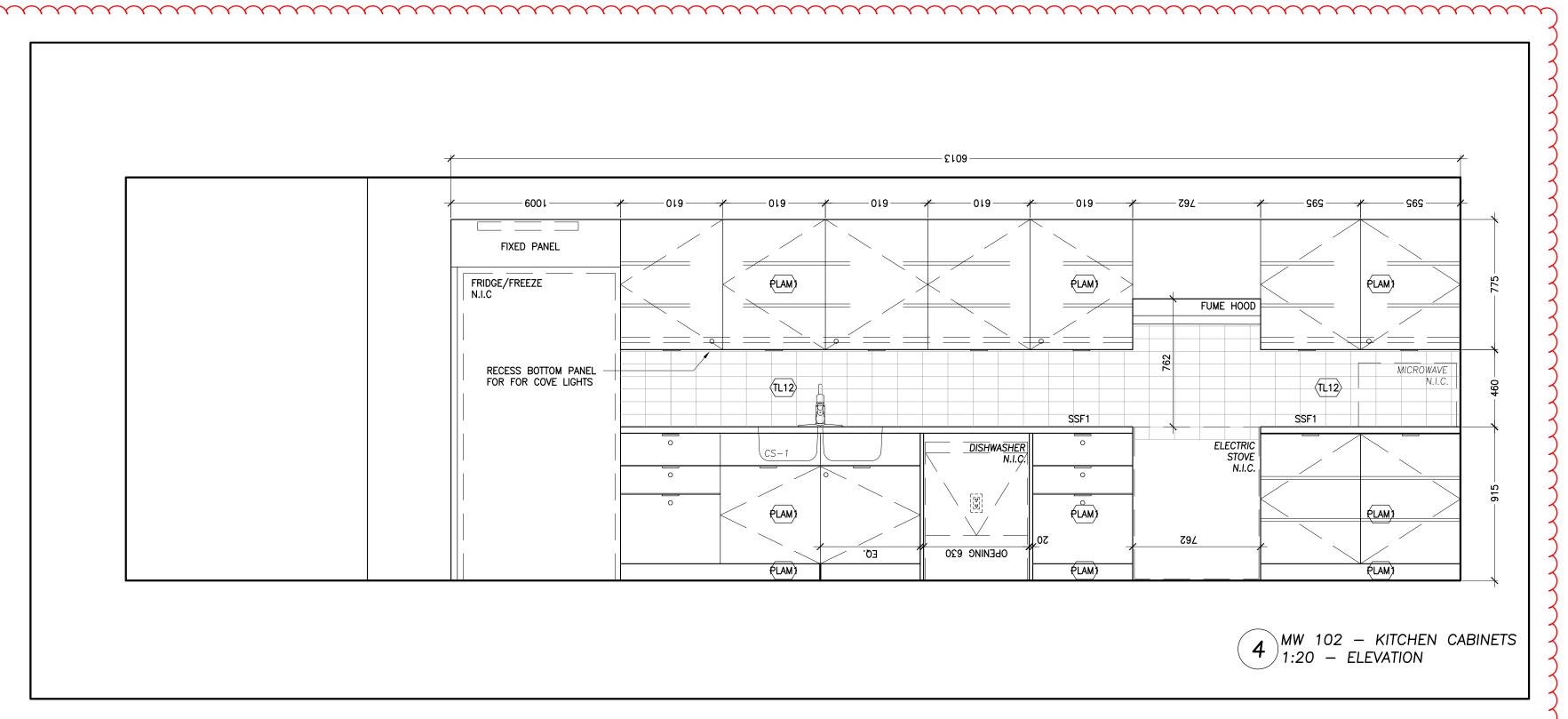
TEL 519 941 0330 FAX 519 941 1830

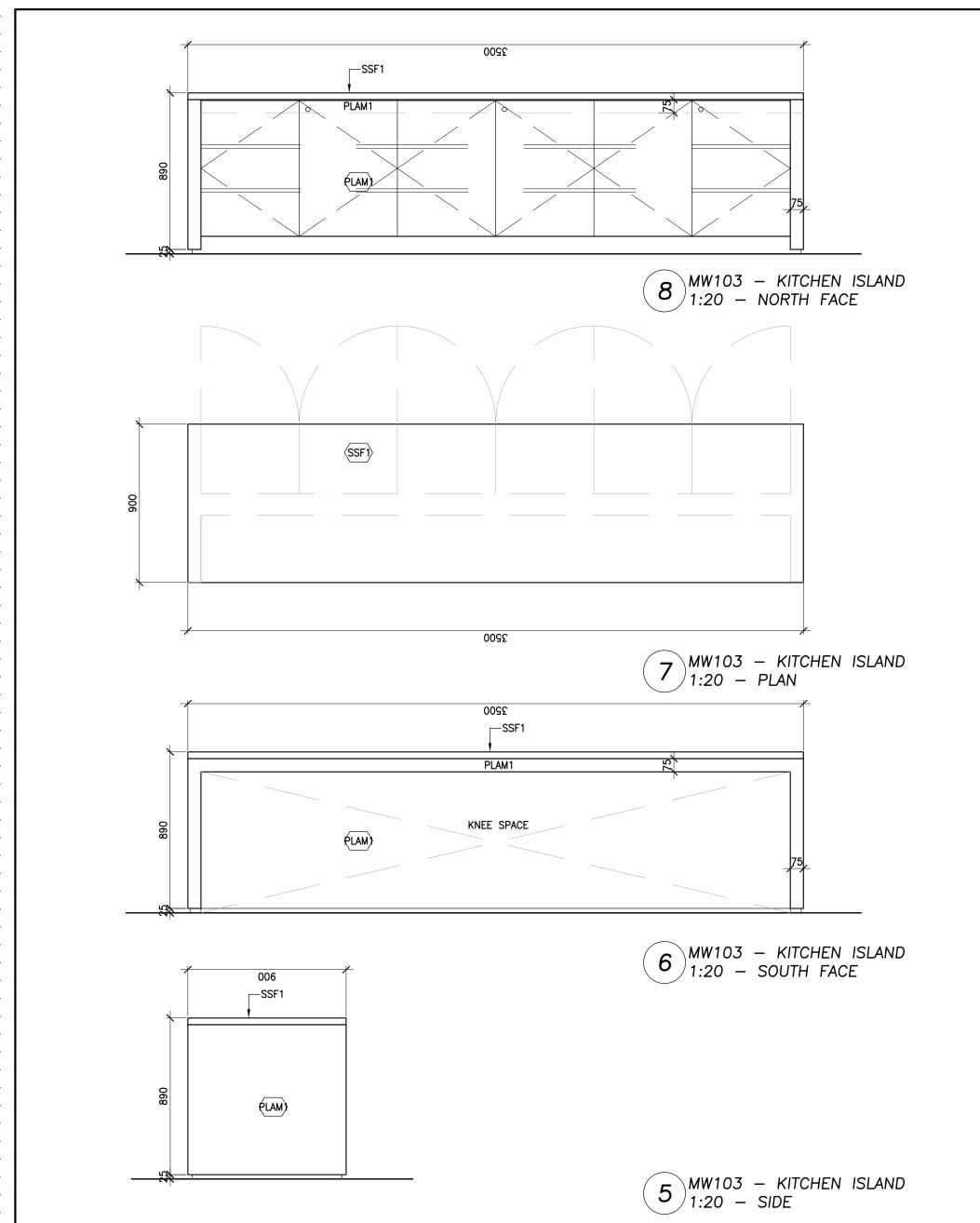
FINISH FLOOR PLANS

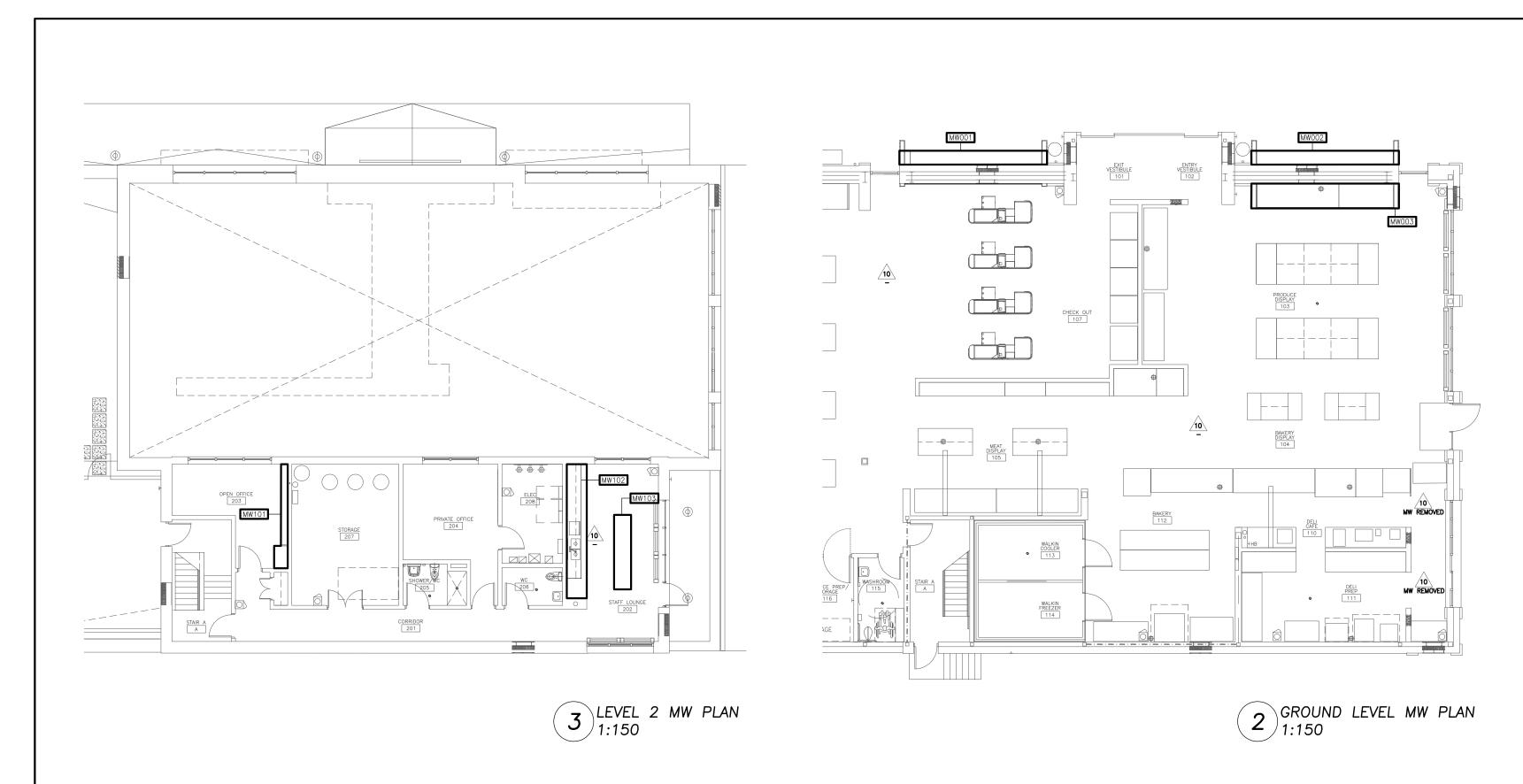
SEPTEMBER 29, 2021

A800









MARK	ROOM NUMBER	ROOM NAME	DESCRIPTION	COUNT	REFERENCE
MW001	EXTERIOR	EXTERIOR	OUTDOOR GARDEN CENTRE	1	A901
MW002	EXTERIOR	EXTERIOR	OUTDOOR GARDEN CENTRE	1	A901
MW003	103	PRODUCE DISPLAY	PRODUCE DISPLAY SURROUND	1	A901
MW101	203	OPEN OFFICE	UPPER CABINETS & FULL HEIGHT STORAGE	1	A900
MW102	202	STAFF LOUNGE	UPPER AND LOWER KITCHEN CABINETS	1	A900
MW103	202	STAFF LOUNGE	KITCHEN ISLAND	1	A900

1 MILLWORK SCHEDULE

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.

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR SPA	210618	AB
2	REVISED SPA	210709	AB
3	REVISED SPA	210809	AE
4	ISSUED FOR TENDER	210824	AB
5	ISSUED FOR BUILDING PERMIT	210909	AB
6	TENDER ADDENDUM #1	210914	AE
7	TENDER ADDENDUM #2	210917	AB
8	TENDER ADDENDUM #3	210923	AE
9	TENDER ADDENDUM #4	210927	AB
10	TENDER ADDENDUM #5	210929	AB

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AROHITECTS

PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

MILLWORK DRAWINGS
SCALE

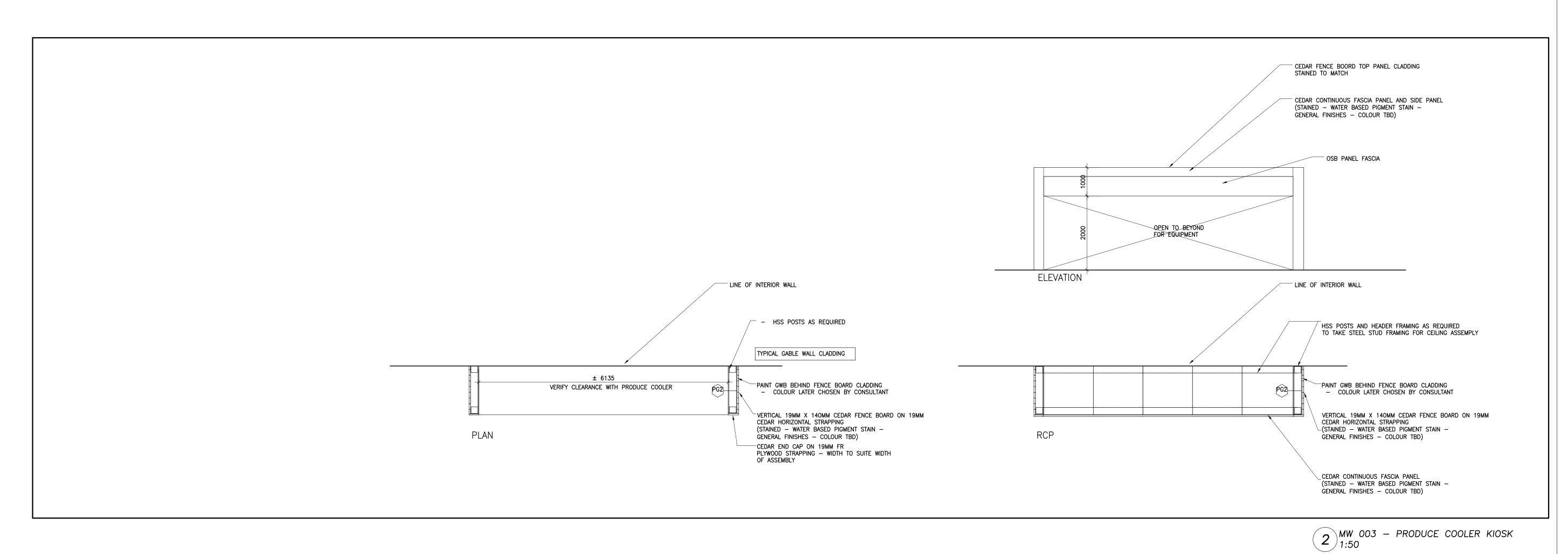
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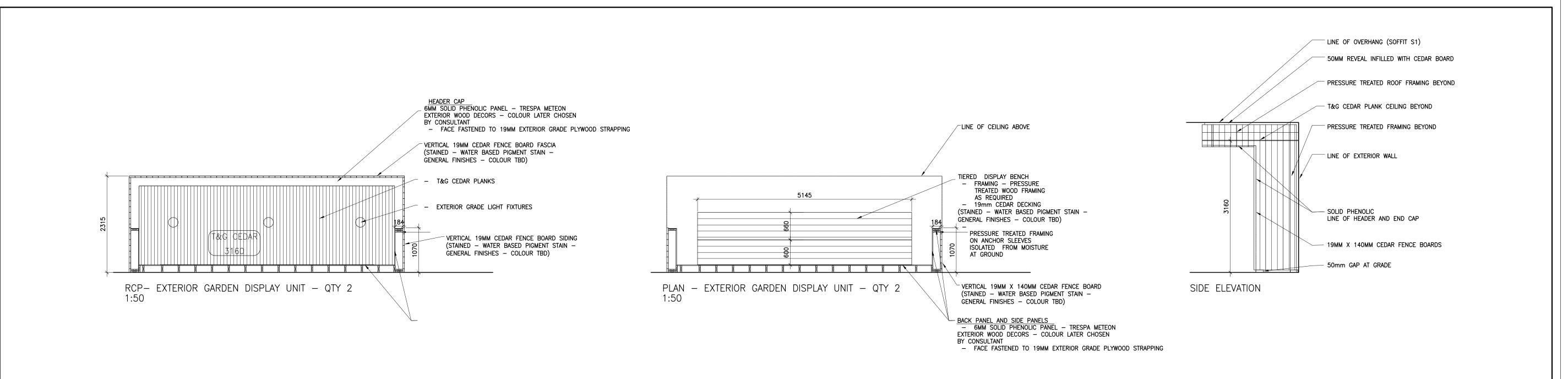
SEPTEMBER 29, 2021

PROJECT NUMBER 2102

DRAWING NUMBER

A900





REV	DESCRIPTION	DATE	B,
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2	REVISED SPA	210709	AE
3	REVISED SPA	210809	AE
4	ISSUED FOR TENDER	210824	AE
5	ISSUED FOR BUILDING PERMIT	210909	AE
6	TENDER ADDENDUM #1	210914	AE
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8	TENDER ADDENDUM #3	210923	AE
9	TENDER ADDENDUM #4	210927	AE
10	TENDER ADDENDUM #5	210929	AE

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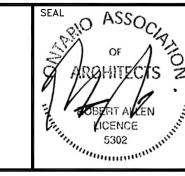
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NORTH ARRO



PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

MILLWORK DRAWINGS

AS NOTED

SEPTEMBER 29, 2021

PROJECT NUMBER 2102

DRAWING NUMBER

A901

1 MW 001, 002 - GARDEN KIOSKS 1:50



6 SOUTH STREETSCAPE



5 SOUTH ENTRY





3 DELI CAFE 2



2 DELI CAFE 1

1 PRODUCE DISPLAY



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.

REVISIONS	AND ISSUES		
REV	DESCRIPTION	DATE	B
1	ISSUED FOR SPA	210618	AE
2	REVISED SPA	210709	AE
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4	ISSUED FOR TENDER	210824	AE
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BLACKWELL STRUCTURAL ENGINEERS

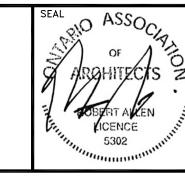
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PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

RENDERINGS SCALE

AS NOTED

SEPTEMBER 29, 2021

PROJECT NUMBER 2102

DRAWING NUMBER

A970



ADDENDUM No. S2

PROJECT: New Sayers Food Store

PROJECT NO: 210112

REPORTED TO: Andrew Bramm, MJMA

REVIEWED BY: Ian Mountfort
DATE: 28 September 2021

Please take note of the following information regarding our project.

ATTACHMENTS:

S-001, S-100, S-101, S-102, S-200, S-301, S-401, S-500, S-501, S-503

DRAWING REVISIONS:

S-001 General Notes:

1. Revise S001 as bubbled.

S-100 Foundation Plan:

1. Revise S100 as bubbled.

S-101 Second & Low Roof Framing Plan:

1. Revise S101 as bubbled.

S-102 High Roof Framing Plan:

1. Revise S102 as bubbled.

S-200 Column Schedule:

1. Revise S200 as bubbled.

S-301 Framing Elevations:

1. Revise S301 as bubbled.

S-401 Building Sections:

2. Revise S401 as bubbled.

S-500 Detailed Sections:

1. Revise S500 as bubbled.

S-501 Detailed Sections

1. Revise S501 as bubbled.

S-503 Detailed Sections:

1. Revise S503 as bubbled.



SPECIFICATION REVISIONS:

None

Blackwell

010000 GENERAL

- 1. CONFORM TO THE REQUIREMENTS OF THE ONTARIO BUILDING CODE 2012, O.REG. 332/12, INCLUDING O.REG. 88/19, AND ANY APPLICABLE ACTS OF AUTHORITY HAVING JURISDICTION.
- 2. READ STRUCTURAL DRAWINGS IN CONJUNCTION WITH THE SPECIFICATIONS AND ALL OTHER CONTRACT DOCUMENTS.
- 3. BEFORE PROCEEDING WITH WORK, CHECK ALL THE DIMENSIONS SHOWN ON THE STRUCTURAL DRAWINGS WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS AND REPORT DISCREPANCIES TO THE CONSULTANT. DO NOT SCALE THE DRAWINGS.
- 4. REFER TO THE ARCHITECTURAL AND OTHER DRAWINGS FOR LOCATIONS AND DIMENSIONING OF OPENINGS AND SLEEVES NOT SHOWN ON THE STRUCTURAL DRAWINGS. ASSUME TYPICAL DETAILS APPLY, HOWEVER, OBTAIN THE CONSULTANT'S PRIOR APPROVAL BEFORE INSTALLING OPENINGS, SLEEVES, ETC. WHICH ARE NOT SHOWN ON STRUCTURAL DRAWINGS.
- 5. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR LOCATIONS OF PITS, BASES, SUMPS, TRENCHES, DEPRESSIONS, GROOVES, CURBS, CHAMFERS AND SLOPES NOT SHOWN ON STRUCTURAL DRAWINGS. ADJUST UNDERSIDE ELEVATIONS OF FOOTINGS AS REQUIRED TO AVOID UNDERMINING THE FOOTINGS AND FOUNDATIONS.
- 6. HORIZONTAL AND VERTICAL DESIGN LOADS ARE NOTED. THEY SHALL NOT BE EXCEEDED DURING CONSTRUCTION
- 7. TYPICAL STRUCTURAL DETAILS SHALL GOVERN THE WORK. IF DETAILS DIFFER ON THE DRAWINGS, THE MOST STRINGENT SHALL GOVERN.
- 8. CONTRACTOR TO PROVIDE AND BE SOLELY RESPONSIBLE FOR ALL TEMPORARY WORKS.
- 9. THE INFORMATION SHOWN ON STRUCTURAL DRAWINGS PLUS THE REQUIREMENTS OUTLINED IN SPECIFICATIONS REPRESENT THE BUILDING IN ITS FINISHED STATE. CONTRACTOR TO REVIEW THESE REQUIREMENTS AND DETERMINE ALL TEMPORARY WORKS REQUIRED TO COMPLETE THE STRUCTURE PER CONTRACT DOCUMENTS INCLUDING MEANS, METHODS, TECHINQUES, SEQUENCES, PROCEDURES, TEMPORARY SHORING AND/OR BRACING, TEMPORARY OPENINGS, EXCAVATION SHORING, ERECTION PROCEDURES, ETC.
- 10. SEE SPECIFICATIONS FOR DETAILED REQUIREMENTS.

010001 DESIGN NOTES

- 1. THE BUILDING IS DESIGNATED AS BELONGING TO THE NORMAL IMPORTANCE CATEGORY, AS DEFINED IN THE OBC 2012.
- 2. ALL REINFORCED CONCRETE ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CSA STANDARD
- 3. ALL STRUCTURAL STEEL ELEMENTS HAVE BEEN DESIGNED IN ACCORDANCE WITH CAN/CSA-S16.
- 4. LATERAL FORCES ON STRUCTURAL FRAME
- a) THE LATERAL FORCES ARE RESISTED BY THE STEEL BRACED FRAME AND MOMENT FRAME SYSTEMS.
- b) THE FRAME IS NOT STABLE UNTIL THE LATERAL LOAD RESISTING SYSTEM IS IN PLACE.
- - THE DESIGN OF THE STRUCTURE FOR WIND IS BASED ON AN HOURLY WIND PRESSURE OF 0.32 kPa (BASED ON 1/50 YEAR RETURN).
- ii. EXPOSURE CONDITION: ROUGH TERRAIN.
- iii. THE IMPORTANCE FACTOR, Iw, FOR WIND DESIGN IS 1.0. FOR DEFLECTION ANALYSIS, THE
- iv. THE DESIGN WIND FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012 AND WITH THE STATIC PROCEDURE DESCRIBED IN THE USER'S GUIDE -NBC 2010 - STRUCTURAL COMMENTARIES (PART 4).

- i. THE DESIGN OF THE STRUCTURE FOR EARTHQUAKE IS BASED ON:
- le = 1.0
- SITE CLASS = D Sa(0.2) = .151
- Sa(0.5) = .105
- Sa(1.0) = .063
- Sa(2.0) = .032PGA = .090
- Rd = 1.5
- Ro = 1.3 Fa = 1.24
- Fv = 1.55 • Mv = 1.0
- ii. THE SEISMIC HAZARD INDEX FOR THIS SITE IS:
- IEFaSa(0.2) = 0.24 iii. THE STRUCTURE HAS BEEN DESIGNED FOR:
- N/S DIRECTION
- BASE SHEAR = 385 kN
- BASE MOMENT = 2545 kNm E/W DIRECTION
- BASE SHEAR = 385 kN
- BASE MOMENT = 2545 kNm
- iv. THE DESIGN EARTHQUAKE FORCES HAVE BEEN CALCULATED IN ACCORDANCE WITH THE ONTARIO BUILDING CODE 2012.
- v. THE BUILDING'S STRUCTURAL CONFIGURATION IS DESIGNATED AS REGULAR.
- 5. LATERAL FORCES ON FOUNDATION WALLS
- a) WALLS RETAINING EARTH ARE DESIGNED TO SAFELY WITHSTAND A HORIZONTAL PRESSURE AT ANY DEPTH (h) GIVEN BY THE EXPRESSION:

$P = K (\gamma h + q)$, WHERE

- K IS THE LATERAL EARTH PRESSURE COEFFICENT
- P IS THE PRESSURE EXERTED HORIZONTALLY
- h IS THE DEPTH BELOW GRADE
- γ IS THE UNIT WEIGHT OF SOIL
- q IS THE SURCHARGE ON THE GROUND SURFACE b) THE ADDITIONAL SEISMIC PRESSURE CONSIDERED IN CONJUNCTION WITH THE STATIC PRESSURE
- $P = 0.75 \text{ k} \text{ } \gamma \text{ } (H h), \text{ FOR A NON RIGID WALL}$
- $P = 0.25 \text{ k } \gamma \text{ H } \{1 [(H 2h)/H]^2\}, \text{ FOR A RIGID WALL}$

ABOVE IS GIVEN BY THE EXPRESSION:

- k = ## IS THE DESIGN PEAK HORIZONTAL GROUND ACCELERATION COEFFICENT (Fa x PGA)
- H IS THE HEIGHT OF GRADE ABOVE THE LOWEST LATERAL
- RESTRAINT
- c) FOUNDATION AND OTHER WALLS RETAINING EARTH HAVE BEEN DESIGNED FOR SURCHARGE OF
- d) THE WALLS HAVE BEEN DESIGNED ASSUMING THAT THERE IS FREE-DRAINING BACKFILL, OR THAT OTHER PROVISIONS HAVE BEEN MADE, SUCH THAT THE WALLS ARE NOT SUBJECT TO

6. SNOW LOADS ON ROOFS

- a) THE ROOFS HAVE BEEN DESIGNED WITH Ss = 3.1 kPa AND Sr = 0.4 kPa.
- b) THE IMPORTANCE FACTOR, Is, IS 1.0 FOR ULS AND 0.9 FOR SLS.
- c) ADDITIONAL SNOW ACCUMULATIONS ADJACENT TO HIGHER WALLS, ROOFS AND MECHANICAL UNITS ARE INDICATED ON THE DRAWINGS.

7. RAINWATER LOADS ON ROOFS

- a) THE ROOFS HAVE BEEN DESIGNED FOR NO FLOW.
- 8. WIND UPLIFT OF ROOFS
- a) ALL ROOF ELEMENTS INCLUDING JOISTS, METAL DECK, AND THEIR CONNECTIONS TO THE STRUCTURE ARE TO BE DESIGNED FOR UPWARD SUCTION DUE TO WIND. THE NET UPWARD DESIGN PRESSURES ARE SHOWN ON THE KEY PLAN BELOW.
- 9. LIVE AND OTHER LOADS
- a) SEE NOTES BELOW FLOOR PLANS.

10. FUTURE EXTENSIONS

THE STRUCTURE HAS NOT BEEN DESIGNED FOR ANY FUTURE EXTENSIONS

010004 SUBMITTALS

- GEOMETRY a) SUBMIT SURVEY RECORDS CONFIRMING THAT THE BUILT GEOMETRY MATCHES THE DESIGN
- 2. CONCRETE AND REINFORCEMENT
- a) SUBMIT REINFORCING PLACING DRAWINGS AND BAR LISTS FOR REVIEW BY THE CONSULTANT. b) PROVIDE TEST CYLINDERS IN ACCORDANCE WITH CAN3-A23.1 BUT A MINIMUM OF 3 CYLINDERS FROM EACH LOAD OF CONCRETE, TO BE TESTED; 1 AT 7 DAYS AND 2 AT 28 DAYS.
- a) DESIGN DETAILS, CONNECTIONS, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE FOR THE FORCES SHOWN ON THE DRAWINGS
- b) SUBMIT SKETCHES AND DESIGN CALCULATIONS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN PROVINCE OF ONTARIO FOR NON STANDARD
- c) SUBMIT SHOP, ERECTION, AND SETTING DRAWINGS FOR REVIEW BY THE CONSULTANT. d) ENSURE FABRICATOR DRAWINGS SHOWING DESIGNED ASSEMBLIES, COMPONENTS AND CONNECTIONS ARE STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN

THE PROVINCE OF ONTARIO.

- a) DESIGN STEEL JOISTS, BRIDGING, AND THE LIKE IN ACCORDANCE WITH THE ONTARIO BUILDING
- CODE FOR THE FORCES SHOWN ON THE DRAWINGS. b) SUBMIT SHOP DETAILS AND ERECTION DRAWINGS FOR REVIEW BY THE CONSULTANT
- c) SUBMIT DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.

- a) DESIGN DECK IN CONFORMANCE WITH THE REQUIREMENTS OF CAN/CSA-S136, FOR THE FORCES
- b) SUBMIT SHOP DRAWINGS STAMPED AND SIGNED BY QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
- 6. LIGHTWEIGHT STEEL FRAMING
- a) SUBMIT SHOP AND ERECTION DRAWINGS BEARING THE SEAL OF A PROFESSIONAL ENGINEER λ LICENSED IN THE PROVINCE OF ONTARIO, FOR REVIEW BY THE CONSULTANT.

030000 CONCRETE

MATERIALS

- CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR STRENGTH, SLUMP, WATER-TO-CEMENTING MATERIALS CONTENT AND AIR
- ii. NOMINAL MAXIMUM SIZE OF AGGREGATE SHALL BE 20 mm. USE SMALLER AGGREGATES AS APPROPRIATE IN AREAS OF CONGESTED REINFORCING STEEL OR TO IMPROVE WORKABILITY.

MOD	IFY MIX DESIGNS	S TO SUIT.				
CATEGORY	DESCRIPTION	EXPOSUR E CLASS PER A23.1	CONCRETE STRENGTH f'c (MPa)	MAX. W/C RATIO	AIR CONTENT ¹	SCOPE
CM 1	FOUNDATION MIX		25		5%-8%	FOOTINGS AND CAPS
CM 2	SLAB ON GRADE MIX		25			INTERIOR SLABS ON GRADE
CM 5	TOPPING MIX		20			TOPPINGS ON CONCRETE.
CM 8	PARKING SLAB AND BEAM MIX	C-1 ²	35	0.40	5%-8%	FOUNDATION WALLS ADJACENT TO PAVING. FRAMED SLABS AND BEAMS EXPOSED TO DE- ICING CHEMICALS.
CM 9	PAVING MIX	C-2	32	0.45	5%-8%	EXTERIOR PAVING AND SIDWALKS
CM 13	EXTERIOR WALL MIX	F-2	25	0.55	4%-7%	FOUNDATION WALLS AND OTHER WALLS EXPOSED TO FREEZE THAW BUT NOT EXPOSED TO DE-ICING CHEMICALS
CM 14	LEAN MIX		0.4 max. ³		4-6% (EXTERIO R ONLY)	UNSHRINKABLE FILL
CM 15	SELF CONSOLIDATI		30			FOR USE WHERE CONVENTIONAL VIBRATION IS NOT

1. WHERE AGGREGATES SMALLER THAN 14 mm ARE USED, INCREASE AIR CONTENT BY

VIABLE

2. REINFORCED CONCRETE EXPOSED TO DE-ICING CHEMICALS TO HAVE DCI CORROSION INHIBITOR @ 11L/cu.m. DOSAGE OR APPROVED EQUIVALENT

3. MAX. 25kg CEMENT/cu.m.

- i. CONFORM TO THE REQUIREMENTS OF CSA STANDARD G30 SERIES.
- ii. REINFORCING BARS SHALL HAVE A MINIMUM YIELD STRENGTH fy = 400 MPa, AND WELDED WIRE FABRIC SHALL HAVE A MINIMUM YIELD STRENGTH OF fy = 386 MPa, SUPPLY IN FLAT
- iii. WHERE WELDING OF REBAR IS INDICATED, WELDABLE GRADE REBAR SHALL BE USED.

2. EXECUTION

- a) CONCRETE AND REINFORCEMENT PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN EXCEPT WHEN NOTED OTHERWISE.
- ii. CONSTRUCTION JOINTS:
 - HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS OR JOISTS, UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.
 - VERTICAL CONSTRUCTION JOINS MAY BE MADE ONLY AT MID-SPAN OF BEAMS, JOISTS, AND SLABS UNLESS OTHERWISE SHOWN OR DIRECTED AND THEIR LOCATION SHALL BE REVIEWED BY THE CONSULTANT.
- PROVIDE 38x89 KEYS AT CONSTRUCTION JOINTS UNLESS NOTED OTHERWISE.
- iii. NO SLEEVES TO BE PLACED VERTICALLY OR HORIZONTALLY THROUGH BEAMS WITHOUT BEING REVIEWED BY THE CONSULTANT.
- iv. NO OPENINGS SHALL BE MADE IN FLAT SLAB COLUMN STRIPS UNLESS SHOWN OR REVIEWED BY THE CONSULTANT.

v. WELDING OF REBAR SHALL BE DONE IN ACCORDANCE WITH CSA W186.

b) CONCRETE COVER TO REINFORCEMENT:

CONFORM TO THE REQUIREMENTS OF CSA STANDARD A23.1 (LATEST VERSION) AND THE FOLLOWING FOR COVER TO REINFORCEMENT (mm):

NOT EXPOSED (N) AND FOR FIRE RATING:							
FIRE RATING (HOURS)							
UP TO 1	1.5	2	3	4			
40	40	40	40	50			
45	45	45	45	50			
55	55	55	55	55			
25	25	25	35	40			
	UP TO 1 40 45 55	FIRE UP TO 1 1.5 40 40 45 45 55 55	FIRE RATING (HC UP TO 1 1.5 2 40 40 40 45 45 45 55 55 55	FIRE RATING (HOURS) UP TO 1 1.5 2 3 40 40 40 40 45 45 45 45 55 55 55 55			

30M	30	30	30	35	40
35M	35	35	35	35	40
45M	45	45	45	45	45
55M	55	55	55	55	55
COLUMNS (VERTICAL BARS) – 35M AND SMALLER	40	40	50	50	63
45M	45	45	50	50	63
55M	55	55	55	55	63
WALLS – 25M AND SMALLER	25	40	50	50	63
30M	30	40	50	50	63
35M	35	40	50	50	63
45M	45	45	50	50	63
55M	55	55	55	55	63
STIRRUPS AND TIES			30		

ii. ADDITIONAL COVER REQUIREMENTS AS APPLICABLE:

- CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:
- 35M BARS AND SMALLER: 75mm
- 45M BARS AND LARGER: 2x THE NOMINAL BAR DIAMETER
- CONCRETE EXPOSED TO CHLORIDES (C-1, C-3) (DOES NOT INCLUDE CONCRETE PROTECTED BY A WATERPROOFING MEMBRANE):
- 30M BARS AND SMALLER: 60mm
- 35M BARS AND LARGER: 2x THE NOMINAL BAR DIAMETER
- EXPOSED TO EARTH OR WEATHER (F-1, F-2)
 - 25M AND SMALLER: 40mm
- 30M BARS AND LARGER: 1.5x THE NOMINAL BAR DIAMETER

i. PROTECT CONCRETE EXPOSED TO DE-ICING SALTS IN ACCORDANCE WITH THE FOLLOWING TABLE. REFER TOTHE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR PROTECTION.

CATEGORY	DESCRIPTION	SCOPE
CP 0	UNPROTECTED CONCRETE	ALL CONCRETE NOT DESIGNATED AS PROTECTED BELOW.
CP 1	EPOXY COATED REBAR	NONE
CP 2	STAINLESS STEEL REBAR	NONE
CP 3	DCI CORROSION INHIBITOR	ALL CONCRETE EXPOSED TO WEATHER AT GRADE (NOT PROTECTED BY A MEMBRANCE) INCLUDING CURBS AND WALLS.
CP 4	CATHODIC PROTECTION	NONE

PROVIDE WATERSTOPS AT ALL CONCRETE JOINTS MORE THAN 600 MM BELOW GRADE.

050000 STRUCTURAL STEEL

- a) WIDE FLANGE SHAPES CONFORM TO THE REQUIREMENTS OF ASTM A992/A992M, Fy=345MPa
- b) HSS MEMBERS CONFORM TO THE REQUIREMENTS OF G40.21 350W CLASS C NOTE THAT ASTM A500 IS NOT AN ACCEPTABLE ALTERNATE FOR HSS MEMBERS WITHOUT
- REVIEW AND RESIZING (INCREASED SECTION SIZE OR WALL THICKNESS) BY THE CONSULTANT. ii. HSS PRODUCED TO ASTM A1085 IS AN ACCEPTABLE ALTERNATE TO CSA G40.21 350W CLASS C.
- c) CHANNELS AND ANGLES CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 350W

h) ANCHOR RODS - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W UNLESS

- d) PIPE ASTM A53/A53M
- e) BOLTS, NUTS AND WASHERS "[ASTM F3125, GRADE A325]" f) WELDS- CONFORM WITH CSA W59-03
- g) HEADED STUD- CONFORM TO CSA W59 APPENDIX H, WITH TENSILE STRENGTH OF 450MPa AND YIELD STRENGTH OF 350MPa
- NOTED OTHERWISE i) ALL OTHER - CONFORM TO THE REQUIREMENTS OF CSA G40.21 GRADE 300W
- j) STEEL JOISTS CONFORM TO CAN/CSA-S16-09
- k) METAL DECK: CONFORM TO THE REQUIREMENTS OF CAN/CSA-S136-07. i. SHERWIN WILLIAMS B66W1 DTM ACRYLIC PRIMER/FINISH
- ii. PPG PITT-TECH 90-712 DTM PRIMER/FINISH I) SHOP PRIMER: PHENOLIC ALKYD PRIMER
- i. DEVGUARD 4360 LOW VOC UNIVERSAL PRIMER ii. SHERWIN WILLIAMS B50 KEM BOND HS UNIVERSAL METAL PRIMER
- iii. PPG AMERCOAT 185H UNIVERSAL PHENOLIC PRIMER m) REPAIR PRIMER FOR APPLICATION IN THE FIELD, WATER BASED ACRYLIC:
- i. DEVFLEX 4020PF DIRECT TO METAL PRIMER
- ii. SHERWIN WILLIAMS PRO-CRYL B66-310 SERIES UNIVERSAL PRIMER
- iii. PPG PITT-TECH PLUS 90-912 SERIES DTM INDUSTRIAL PRIMER n) PRIMER FOR STEEL TO RECEIVE INTUMESCENT FIREPROOFING: DETERMINED TO BE ACCEPTABLE BASED ON ADHESION AND COMPATIBILITY CHARACTERISTICS UNDER LABORATORY CONDITIONS IN
- ACCORDANCE WITH ASTM D3359-09e2, METHOD A AND / OR ASTM D4541-09e1, AND APPROVED BY MANUFACTURER OF INTEMESCENT FIREPROOFING TO BE APPLIED.
- o) PRIMER FOR STEEL TO BE GALVANIZED AND RECEIVE A PAINT FINISH: SHERWIN WILLIAMS B71Y1 DTM WASH PRIMER
- ii. CARBOLINE SANITILE120 HEAVY DUTY BONDING PRIMER
- iii. PPG PITT-TECH 90-712 SERIES DTM PRIMER p) COLD GALVANIZING COATING FOR REPAIR OF GALVANIZED SURFACES:
- i. ZRC ZERO-VOC GALVANIZING COMPOUND AS MANUFACTURED BY ZRC WORLDWIDE, MARSHFIELD. MA
- ii. AERVOE INDUSTRIES, INC. 'LOW VOC COLD GALVANIZE COATING 93% ZINC q) SHEET RUBBER FOR THERMAL SEPERATION AT STEEL CONNECTIONS: AB-563 EPDM, HARDNESS:60±5 SHORE "A" DUROMETER, 3mm THICKNESS UNLESS OTHERWISE INDICATED, AS MANUFACTURED BY AMERICAN BILTRITE OR APPROVED EQUIVALENT. DISTRIBUTED BY ROBCO (MISISSAUGA) 905-564-6555, GOODALL (OSHAWA) 905-728-1658, OR CHAMBERS AND COOKE
- r) HEAVY DUTY BITUMINOUS COATING WHERE IN CONTACT WITH SOIL: WOHL COATINGS BB-110 OR APPROVED EQUAL
- a) PROVIDE A MINIMUM BEARING OF 200 mm FOR ALL STEEL BEAMS BEARING ON MASONRY AND A MINIMUM OF 100 mm ON STRUCTURAL STEEL, UNLESS NOTED OTHERWISE.
- b) CENTRE BEARING PLATES UNDER BEAMS, OR AS NOTED.
- BEARING PLATE DIMENSION GIVEN FIRST INDICATES SIDE PARALLEL TO BEAM WEB. d) NO STRUCTURAL STEEL SHALL BE CUT WITHOUT THE PERMISSION OF THE CONSULTANT
- PROVIDE TEMPORARY BRACING UNTIL WALLS ARE BUILT TIGHT TO COLUMNS. PROVIDE FRAMING AROUND ALL OPENINGS IN METAL DECK AS SPECIFIED. REFER TO TYPICAL DETAIL 0504 FOR DETAILS. SEE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS FOR

e) WHERE COLUMNS ARE STABILIZED BY WALLS PROVIDE COLUMN ANCHORS AT ABUTTING WALLS.

OPENINGS NOT SHOWN ON THE STRUCTURAL DRAWINGS. a) PROVIDE FULL HEIGHT WEB STIFFENERS AT ALL BEAMS BEARING ON COLUMNS AND ALL BEAMS SUPPORTING COLUMNS. WEB STIFFENERS SHALL BE OF THE SAME SIZE AND THICKNESS AS THE

COLUMN FLANGES AND SHALL ALIGN WITH THE FLANGES OF THE SUPPORTING COLUMN.

h) CONNECT BEAMS FOR THE FACTORED REACTIONS INDICATED ON THE DRAWINGS. IF BEAM REACTIONS ARE NOT INDICATED, THE CONNECTIONS SHALL BE DESIGNED FOR ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY OF THE SIMPLE SPAN BEAM FOR THE GIVEN SPAN PRESENTED IN THE CISC HANDBOOK OF STEEL CONSTRUCTION. BOLTED CONNECTIONS SHALL HAVE A MINIMUM OF TWO BOLTS.

- i) STEEL SUPPLIER TO DESIGN AND PROVIDE INTERCONNECTION BETWEEN BUILT UP MEMBERS AS NOTED. WHERE NOT NOTED, STEEL SUPPLIER IS TO INTERCONNECT AS REQUIRED TO ENSURE ADEQUATE CAPACITY FOR THE DESIGN FORCES SHOWN OR IMPLIED IN THE DRAWINGS.
- j) STEEL SUPPLIER TO DESIGN CONNECTIONS OF SINGLE ANGLE MEMBERS FOR THE FORCES SHOWN OR IMPLIED IN THE DRAWINGS, SUCH THAT CONNECTIONS ARE MADE TO THE SAME LEG EACH END BY WELDING OR WITH A MINIMUM OF TWO BOLTS.
- k) DESIGNATE STEEL AS ARCHITECTURALLY EXPOSED IN ACCORDANCE WITH THE FOLLOWING TABLE. *REFER TO THE SPECIFICATION FOR SPECIFIC REQUIREMENTS FOR ARCHITECTURALLY EXPOSED STRUCURAL STEEL (AESS). *REFER TO THE CISC GUIDE FOR SPECIFYING ARCHITECTURALLY EXPOSED STRUCTURAL STEEL, AVAILABLE AT www.cisc-icca.ca. IN PARTICULAR, REFER TO TABLE 1 - AESS CATEGORY MATRIX AND ASSOCIATED NOTES.

CATEGORY	DESCRIPTION	SCOPE
SSS	STANDARD STRUCTURAL STEEL	ALL STRUCTURAL STEEL NOT DESIGNATED AS AESS BELOW.
NESS 1	BASIC ELEMENTS	EXPOSED COLUMNS
AESS 2	FEATURE ELEMENTS (VIEWED AT A DISTANCE > 6m)	[SCOPE]

- I) *THE ARCHITECT SHALL REVIEW THE AESS STEEL IN PLACE AND DETERMINE ACCEPTABILITY BASED ON THE CATEGORY AND VISUAL SAMPLES (IF APPLICABLE). ADVISE THE CONSULTANT THE SCHEDULE OF THE AESS WORK.
- m) APPLY FIELD PRIMER TO WELDS, BOLTS AND AT LOCATIONS WHERE ORIGINAL PRIMER IS
- DAMAGED, EXCEPT FOR STEEL WHICH IS TO BE LEFT UNCOATED. n) PRIMERS AND PAINTS USED IN MULTI-COAT SYSTEMS WHERE A FINAL SHOP OR FIELD PAINT FINISH IS TO BE APPLIED SHALL BE SELECTED AND PRE-APPROVED BY THE ARCHITECT BASED ON

SURFACE PREPARATION, EXPOSURE CONDITIONS, AND COMPATIBILITY WITH OTHER COATINGS.

MATERIALS

WITH ITS FINDINGS.

DETAIL OR AS NOTED ON DRAWINGS.

- a) STEEL DECKING PER PLAN AND CONFORMING TO CAN/CSA-S136 AND THE FOLLOWING;
- CSSBI 10M FOR ROOF DECKING
- ii. CSSBI 12M FOR FLOOR DECKING. b) MINIMUM ZINC COATING OF Z275 FOR EXTERIOR DECKING AND DECKING EXPOSED TO VIEW
- WITHOUT PAINTED FINISH. c) MINIMUM ZINC COATING OF ZF75 FOR INTERIOR DECKING NOT EXPOSED TO VIEW AND INTERIOR
- DECKING WITH FIELD APPLIED PAINT SYSTEM. d) LACEMENT OF EXISTING DECK IS REQUIRED.
- EXECUTION
- a) DESIGN DECK IN ACCORDANCE WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE b) DESIGN AND CONNECT METAL EDGE AND CLOSURE STRIPS, METAL SCREEDS, FLASHINGS AND THE
- c) DESIGN FRAMING FOR 450mm OR SMALLER OPENINGS IN ROOF DECK, AND 300mm OR SMALLER OPENINGS IN FLOOR DECK. REINFORCE OPENINGS OVER 150mm, AS REQUIRED.
- d) PLACE SHEETS IN MINIMUM 3 SPAN LENGTHS. BEAR ENDS MINIMUM 50mm.
- e) LAP ENDS OF NON-COMPOSITE DECK UNITS A MINIMUM OF 50mm AND ONLY OVER SUPPORTING f) AS A MINIMUM, WELD DECK TO SUPPORTS AND PERIMETER ELEMENTS WITH 20mm PUDDLE WELDS
- AT MAXIMUM 400mm o/c OR EVERY SECOND FLUTE, WHICHEVER IS LESS. g) AS A MINIMUM, FASTEN SIDE JOINTS OF DECK UNITS BETWEEN SUPPORTS BY CLINCHING AT 600mm INTERVALS OR WITH 25mm LONG WELDS AT 1000mm INTERVALS.
- h) PAINT WELDS AND REPAIR DAMAGED COATING WITH GALVACON COATING. i) DO THE FOLLOWING WHERE DECKING IS EXPOSED TO VIEW;
- i. LAP ENDS OF DECK UNITS ONLY OVER SUPPORTING MEMBERS. NO SEAMS ARE PERMITTED

ii. KEEP DECK FREE OF DIRT, SCALE, FOREIGN MATTER, DENTS OR DEFORMATIONS.

- iii. KEEP FUSION WELDS WELL WITHIN THE BEARING WIDTH OF SUPPORTING MEMBERS
- 310000 FOUNDATIONS 1. A SOIL INVESTIGATION HAS BEEN DONE BY REDSTONE ENGINEERING AS REPORTED IN THEIR SOIL

iv. AVOID WELD DAMAGE TO THE DECK OR ITS SUPPORTS

2. FOUND ALL FOOTINGS ON NATURALLY CONSOLIDATED UNDISTURBED SOIL OR ENGINEERED FILL CAPABLE OF SAFELY SUSTAINING AN ULTIMATE BEARING VALUE OF 135 kPA AND AN ALLOWABLE

REPORT NO. 21R110 , DATED JUNE 18, 2021. READ THIS REPORT, AND BE THOROUGHLY FAMILIARIZEL

3. FOUND FOOTINGS EXPOSED TO FREEZING BELOW THE LEVEL AT WHICH POTENTIAL DAMAGE RESULTING FROM FROST ACTION CAN OCCUR, BUT A MINIMUM OF 1500 mm BELOW FINISHED GRADE IF NOT NOTED TO BE FOUNDED LOWER.

4. THE LINE OF SLOPE BETWEEN ADJACENT FOOTINGS OR EXCAVATIONS OR ALONG STEPPED FOOTINGS

5. PLACE SLABS ON GRADE ON MATERIAL CAPABLE OF SAFELY SUSTAINING 25kPa WITHOUT SETTLEMENT

7. DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER WALLS) UNTIL

THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS IS POURED AND HAS ATTAINED 70%

- SHALL NOT EXCEED A RISE OF 7 IN A RUN OF 10. AT STEPS CONSTRUCT LOWER FOOTINGS PRIOR TO CONSTRUCTING HIGHER FOOTINGS
- RELATIVE TO THE BUILDING FOUNDATIONS. 6. REFER TO GEOTECHNICAL REPORT FOR SUBGRADE REQUIREMENTS DIRECTLY BELOW SLAB ON
- 8. CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 500 mm DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL 9. PROVIDE FOOTINGS AS PER TYPICAL DETAIL 0306 FOR ALL LOAD BEARING MASONRY WALLS AND ALL NON-LOAD BEARING MASONRY WALLS THICKER THAN 190 mm. ALL NON-LOAD BEARING MASONRY

WALLS 190 mm OR LESS SHALL REST ON A THICKENING OF THE SLAB ON GRADE AS PER THE TYPICAL

ractor must check and verify all dimensions on the job nd report any discepancies to the Architect before proceeding

Do not scale this drawing

ADDENDUM S2

7 2021/09/28 ADDENDUM S2 6 | 2021/09/14 | ADDENDUM S² 2021/09/09 ISSUED FOR BUILDING PERMIT

2021/08/25 ISSUED FOR TENDER REVIEW 2021/08/11 ISSUED FOR COORDINATION 2021/07/16 Issued for Class B Costing MARK DATE DESCRIPTION

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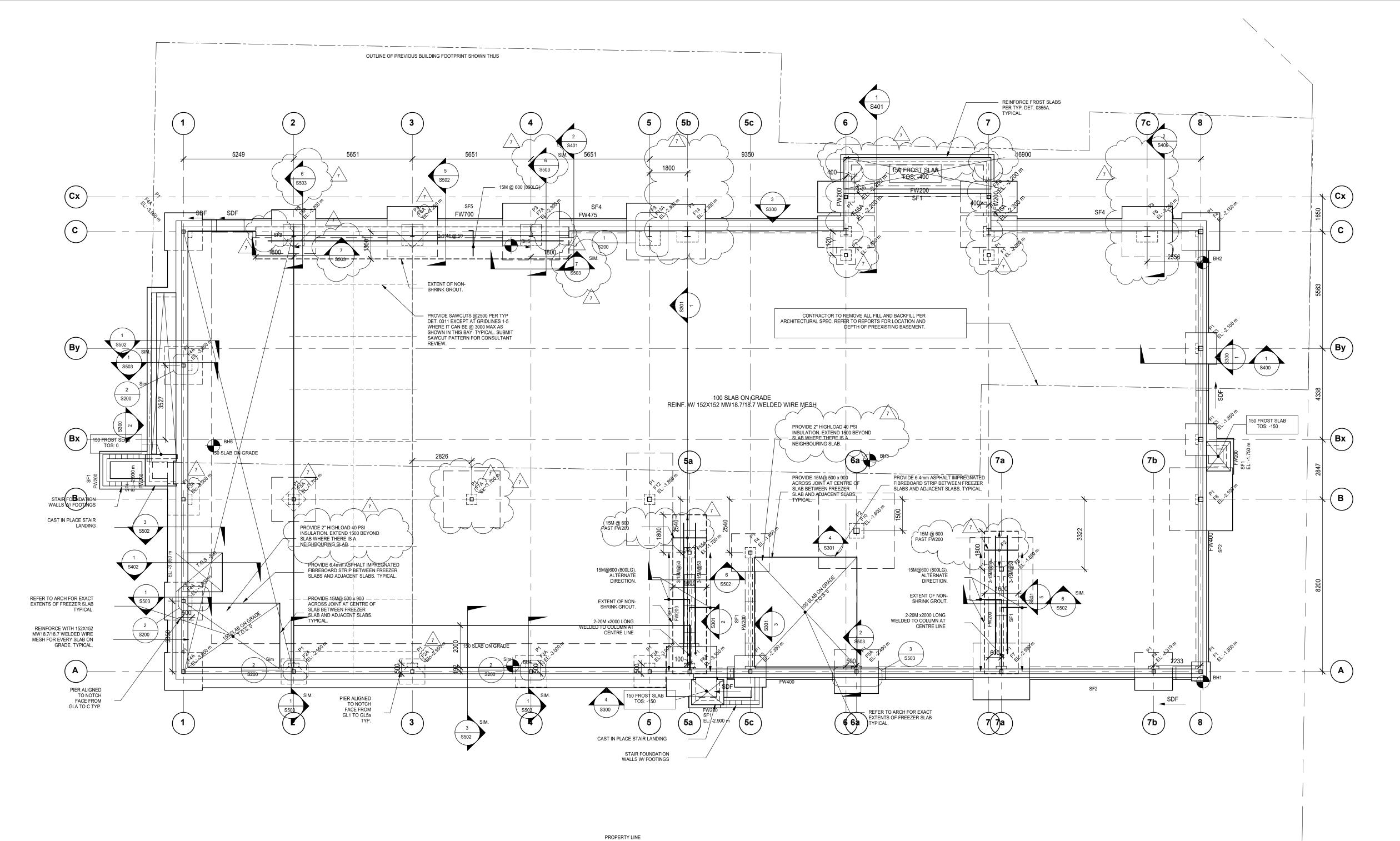
NEW SAYERS FOOD



PROJECT NUMBER 210112

CHECKED:

GENERAL NOTES



01 - FOUNDATION PLAN

NOTES: TOP OF SLAB DATUM ELEVATION IS AT GEODETIC ELEVATION 305.82m.

WHERE CROSSED AND NOTED THE LOCAL DATUM FOR RAISED OR LOWERED AREAS ARE GIVEN RELATIVE TO THE LOWER FLOOR DATUM.

EXCEPT AS CROSSED AND NOTED TOP OF FINISHED FLOOR IS 0 mm BELOW THE LOWER FLOOR DATUM.

WHERE CROSSED AND NOTED, SLAB DEPRESSIONS OR LOCALLY RAISED AREAS ARE GIVEN RELATIVE TO THE LOWER FLOOR DATUM.

REFER TO THE GENERAL NOTES FOR DESIGN ULS AND SLS BEARING CAPACITIES.

BEARING ELEVATIONS (UNDERSIDE OF FOOTING) ARE NOTED ON PLAN. THESE ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE GEOTECHNICAL CONSULTANT.

BEARING ELEVATIONS (UNDERSIDE OF FOOTING) ARE NOTED ON FLAM. THE GEOTECHNICAL CONSULTANT.

FOUND FOOTINGS AT A MINIMUM OF 1500mm BELOW FINISHED GRADE WHERE EXPOSED TO FROST.

CENTRE ALL FOOTINGS AND CAPS ON THE GRID LINES UNLESS NOTED OTHERWISE.

BOREHOLE LOCATIONS SHOWN ON PLAN ARE APPROXIMATE. ELEVATIONS OF EXISTING GRADE AND OF NATIVE SOIL ARE INDICATED AT

EACH BOREHOLE.

THE SITE CONTAINS BURIED TOPSOIL AND/OR FILL MATERIAL UNSUITABLE TO SUPPORT THE PROPOSED STRUCTURE. THE ELEVATIONS OF NATIVE SOIL AT BOREHOLES INDICATE COMPETENT SOIL UPON WHICH FOOTINGS MAY BE FOUNDED OR UPON WHICH ENGINEERED FILL MAY BE PLACED TO RAISE THE SUB-GRADE TO A SUITABLE FOUNDING ELEVATION. REFER TO THE GEOTECHNICAL REPORT FOR DETAILED

SOIL INFORMATION.

PROVIDE CONTROL JOINTS IN ALL FOUNDATION WALLS AS PER DETAIL 0315. COORDINATE CONTROL JOINT LOCATIONS WITH ARCHITECTURAL.

FOUNDATION SCHEDULE							
MARK	DIN	MENSIONS (m	nm)	DEINEODCEMENT	REMARKS		
WARK	LENGTH	WIDTH	DEPTH	REINFORCEMENT	REMARNS		
F1	900	900	300	3-15M BEW			
F2A	1200	1200	300	4-15M BEW, 4-15M TEW			
F3	1500	1500	350	6-15M BEW			
F3A	1500	1500	350	6-15M BEW, 6-15M TEW			
F4	1800	1800	400	6-20M BEW			
F4A	1800	1800	400	6-20M BEW, 6-15M TEW			
F5A	2100	2100	450	9-20M BEW, 9-15M TEW			
F6	2400	2400	500	12-20M BEW			
F6A	2400	2400	500	12-20M BEW, 12-15M TEW			
F7	2700	2700	550	10-25M BEW			
F7A	2700	2700	550	10-25M BEW, 10-15M TEW			
F8	3000	3000	600	12-25M BEW			
F10	3600	3600	600	16-25M BEW			
F12	4400	2200	700	14-25M BEW			
F13A	2700	2200	550	8-25M BEW, 8-15M TEW			
F14	2600	1700	550	12-20M BEW			
F15A	2100	1600	550	8-20M BEW. 8-15M TEW			
F16	1500	2700	450	9-20M BEW			
F16A	1500	2700	450	9-20M BEW, 9-15M TEW			
SF1		500	250	SEE TYPICAL DETAIL 0306			
SF2		600	250	SEE TYPICAL DETAIL 0306			
SF4		675	250	SEE TYPICAL DETAIL 0306			
SF5	15202	900	250	SEE TYPICAL DETAIL 0306			

CONCRETE PIER SCHEDULE							
	DIMENSION		REINFORCEMENT	REINFORCEMENT			
MARK	DEPTH	WIDTH	- VERTICAL	- TIE	REMARKS		
P1	500	500	8-20M	15M@300			
P2	700	700	8-25M	15M@300			
P3	1000	1000	8-25M	15M@300			

FOUNDATION WALL SCHEDULE								
MARK	THICKNESS (mm)	HORIZ. REINF.	VERT. REINF.	REMARKS				
FW200	200	15M@400	15M@400	REBAR AT CENTRE				
FW400	400	15M@500 HEF	15M@500-VEF	15M@500 HIF_15M@500 VIE_EQR NOTCH				
FW475	475	1/5M@400\HEF	1,51/10@400 VEP√	15M@400 H/F, 15M@400 VIF FOR NOTCH				
FW700	700	3 LAYERS- 15M @ 200 H	3 LAYERS- 15M @ 200 V	SEE 5/S502				

Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceeding

Do not scale this drawing.

ADDENDUM S2

7 2021/09/28 ADDENDUM S2 2021/09/14 ADDENDUM S1 2021/09/09 ISSUED FOR BUILDING PERMIT 4 2021/08/30 ISSUED FOR TENDER 2021/08/25 ISSUED FOR TENDER REVIEW

2021/08/11 ISSUED FOR COORDINATION

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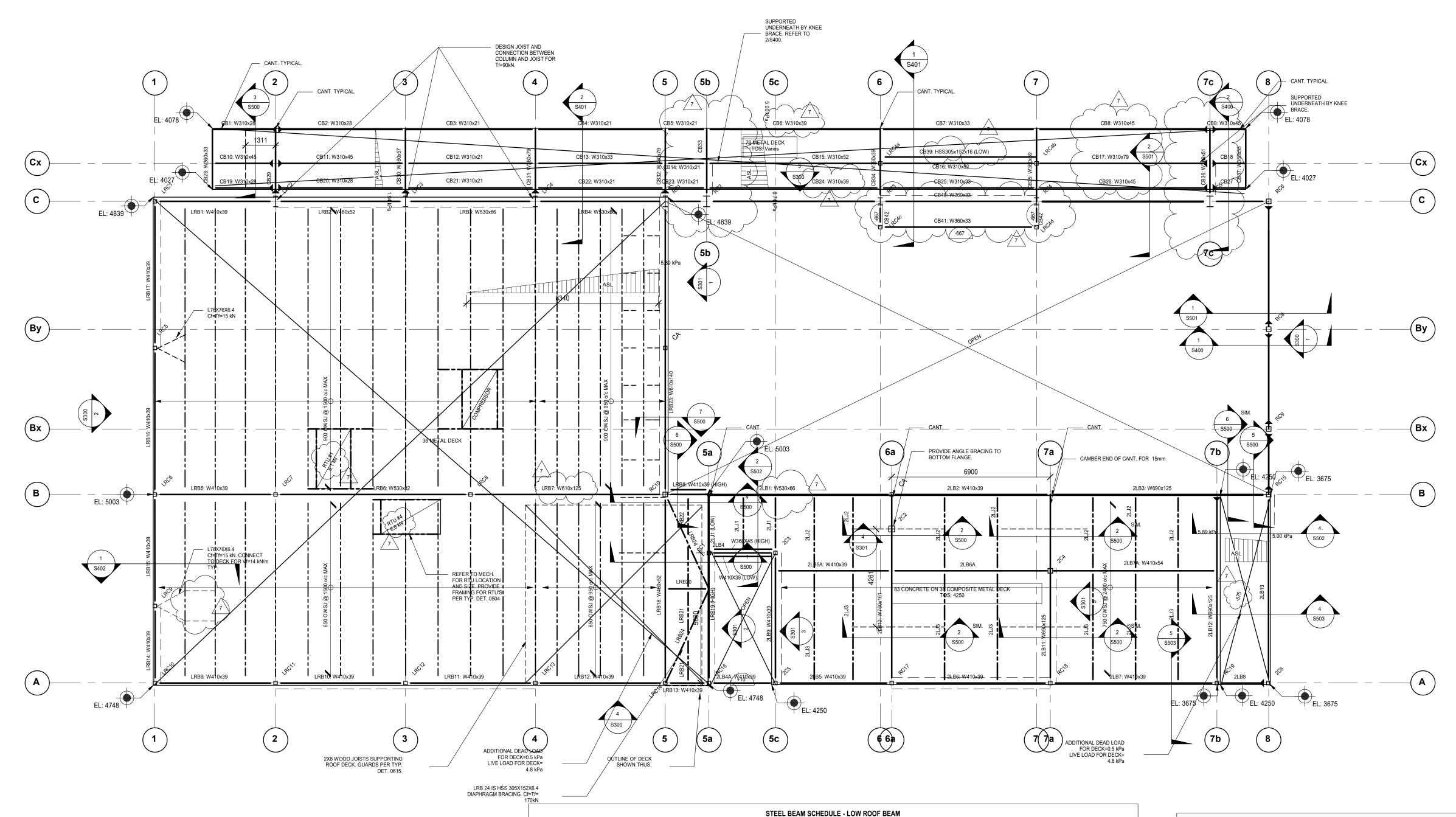
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210112

As indicated

FOUNDATION PLAN

S100



(1)	02 - SECOND AND LOW ROOF FRAMING PLAN
\$101	1 · 100

- SECOND FLOOR DATUM IS AT GEODETIC ELEVATION 310.07m EXCEPT AS CROSSED AND NOTED.

 WHERE CROSSED AND NOTED THE LOCAL DATUM FOR RAISED OR LOWERED AREAS ARE GIVEN RELATIVE TO THE GROUND FLOOR DATUM. EXCEPT AS CROSSED AND NOTED TOP OF FINISHED FLOOR IS 0 mm BELOW THE FLOOR DATUM. ROOF DATUM IS FROM THE GROUND FLOOR DATUM AS NOTED IN SPOT ELEVATIONS.

 THE ROOF DATUM REPRESENTS THE UNDERSIDE OF METAL DECK AT CORNERS. THE ROOF SLOPES. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES.

 TOP OF STEEL JOISTS AND STEEL BEAMS SUPPORTING THE SLAB ON METAL DECK AT LEVEL 2 ARE 121 mm BELOW THE FINISHED FLOOR UNLESS OTHERWISE NOTED.

 TOP OF STEEL BEAMS SUPPORTING JOISTS ARE 102 mm BELOW THE UNDERSIDE OF ROOF METAL DECK.

 WHERE NOTED, TOP OF BEAM IS GIVEN RELATIVE TO THE FINISHED FLOOR.

 SUPERIMPOSED LOADS USED IN THE DESIGN:

 LIVE LOAD ON 2ND FLR:

 PARTITIONS

 1.0 kPa
 FLOOR FINISH
 0.2 kPa
 SUSPENDED
 0.25 kPa

| SUSPENDED | 0.25 kPa | TOTAL | 1.45 kPa | SNOW + RAIN LOAD | 2.88 kPa (PL DEAD LOADS ON ROOF AREAS: ROOFING & INSULATION | 0.60 kPa | SUSPENDED | 0.25 kPa | Care 0.25 kPa 1.45 kPa 2.88 kPa (PLUS SNOW ACCUMULATION SHOWN ON PLAN)

 SUSPENDED
 0.25 kPa

 TOTAL
 0.85 kPa

ASSUMED SELF WEIGHT OF STRUCTURE USED IN THE DESIGN:
76 METAL DECK 0.25 kPa
38 METAL DECK 0.15 kPa
83 CONC ON 38 DECK 2.45 kPa
STEEL FRAMING 0.35 kPa

STEEL BEAM SCHEDULE

- LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN. REACTIONS GIVEN ARE FACTORED FORCES. REACTIONS WITHIN BRACKETS DENOTE FACTORED UPLIFT FORCES.

 DESIGN CONNECTIONS FOR AXIAL COMPRESSION (Cf), AXIAL TENSION (Tf), STRONG-AXIS MOMENT (Mf), TORSIONAL MOMENT (Tmf) OR OUT
- OF PLANE HORIZONTAL FORCE (HI) SHOWN IN THE REMARKS COLUMN, IN ADDITION TO THE VERTICAL SHEAR PROVIDED IN THE REACTION COLUMN. THE (L) OR (R) SHOWN NEXT TO THE FORCE INDICATE THE LEFT OR RIGHT END, RESPECTIVELY.

 4. CAMBERS ARE IN mm. WHERE NO CAMBER IS INDICATED, REFER TO THE SPECIFICATION AND CSA S16.

		REACT	IONS	
MARK	ARK SIZE	LEFT END	RIGHT END	REMARKS
LRB1	W410x39	145 kN	145 kN	Cf=30 kN Tf=30 kN
LRB2	W460x52	160 kN	160 kN	Cf=60 kN Tf=60 kN
LRB3	W530x66	320 kN	320 kN	Cf=190 kN Tf=190 kN
LRB4	W530x66	320 kN	320 kN	Cf=160 kN Tf=160 kN
LRB5	W410x39	170 kN	170 kN	Cf=35 kN Tf=35 kN
LRB6	₩530x82 √	300 KN	300 kN \	Cf=65 kN Tf=65 kN
LRB7	√W610x125	435 kN	545 kN	Cf=95 kN Tf=95 kN
LRB8	W410x39	25 kN	25 KM	Tmf(L)=10 kN-m Tmf(R)=10 kN-m Cf=15 kN Tf=15 kN
LRB9	W410x39	75 KN	75 kN	Cf=30 kN Tf=30 kN
LRB10	W410x39	(80 kN	80 kN /	Cf=55 kN Tf=55 kN
RB11	W410x39	\80 kN \	80 kM 7	Cf=150 kN Tf=150 kN
RB12	W410x39	115 KM	115 kN	Cf=120 kN Tf=120 kN
RB13	W410x39	10 kN	10 kN	Cf=85 kN Tf=85 kN
RB14	W410x39	30 kN	30 kN	Cf=45 kN Tf=45 kN
RB15	W410x39	30 kN	30 kN	Cf=30 kN Tf=30 kN
RB16	W410x39	30 kN	30 kN	Cf=30 kN Tf=30 kN
RB17	W410x39	30 kN	30 kN	Cf=55 kN Tf=55 kN
.RB18	W460x52	100 kN	100 kN	Cf=165 kN Tf=165 kN
RB19	W610x125	(55 kN)	250 kN	Mf(R)=10 kN-m Cf=285 kN Tf=285 kN
RB20	W250x28	20 kN	20 kN	Cf=10 kN Tf=10 kN
RB21	W200x19	20 kN	20 kN	
RB22	W200x19	20 kN	20 kN	
RB23	W610x140	155 kN	155 kN	Cf=165 kN Tf=165 kN
LRB24	HSS305x152x6.4	25 kN	25 kN	Cf=170 kN Tf=170 kN

	STEEL BEAM SCHEDULE - SECOND FLOOR BEAM							
MARK	SIZE	REACT LEFT END		REMARKS				
2LB1	W530x66	1,00 kN	110 kN / 7	Cf=95 kN Tf=95 kN				
2LB2	W410x39	75 kN	75/kN	Cf=95 kN Tf=95 kN				
2LB3	W690x125	135 kN	205 kN	Hf(R)=10 kN Tmf(R)=10 kN-m Cf=95 kN Tf=95 kN				
2LB4	W410x39	70 kN	70 kN					
2LB4A	W410x39	55 kN	55 kN	Cf=85 kN Tf=85 kN				
2LB5	W410x39	60 kN	60 kN	Cf=115 kN Tf=115 kN				
2LB5A	W410x39	95 kN	95 kN					
2LB6	W410x39	80 kN	80 kN	Cf=155 kN Tf=155 kN				
2LB6A	W410x46	130 kN	130 kN					
2LB7	W410x39	85 kN	85 kN	Cf=85 kN Tf=85 kN				
2LB7A	W410x54	140 kN	140 kN					
2LB8	HSS203x152x6.4	85 kN	85 kN	Hf(L)=15 kN Hf(R)=15 kN Mf(R)=25 kN-m Tmf(L)=15 kN-m Tmf(R)=15 kN-m Cf=15 kN Tf=15 kN				
2LB9	W410x39	40 kN	110 kN	Cf=40 kN Tf=40 kN				
2LB10	W760x161	(-165 kN)	1490 kN					
2LB11	W690x125	(-125 kN)	400 kN	Cf=180 kN Tf=180 kN				
2LB12	W690x125	145 kN	170 kN	Mf(R)=10 kN-m Cf=75 kN Tf=75 kN				
2LB13	HSS305x203x13	90 kN	90 kN	Hf(L)=25 kN Hf(R)=25 kN Tmf(L)=25 kN-m Tmf(R)=25 kN-m Cf=40 kN Tf=40 kN				
2LJ1	W200x15	20 kN	20 kN					
2LJ2	W250x18	35 kN	35 kN					
2LJ3	W310x21	55 kN	55 kN					

		DEMARKS			
MARK	SIZE	REAC*	RIGHT END	REMARKS	
CB1	W310x28		25 kN	Mf(R)=30 kN-m	
CB2	W310x28	25 kN	20 kN	Mf(L)=30 kN-m	
CB3	W310x21	20 kN			
CB4	W310x21	40 kN /	7 40 KN		
CB5	W310x21 / ₇	20 kN	20 kN		
CB6	₹ W310x39	55 kN	55 kN 🗦		
CB7	W310x33	50 kN	50 KN		
CB8	W310x45	60 kN	60 kN	Mf(R) ≠30 kN-m	
CB9	W310x45 A	√ 30 kN		Mf(L)=30 kN-m	
CB10	W310x45		45 kN	7 Mf(R)≜60 kN-m	
CB11	W310x45	7 50 kN	35 kN	Mf(L)=60 kN-m	
CB12	W310x21	40 kN	40 kN	(, 22	
CB13	W310x33	80 kN	80 kN		
CB14	W310x21 /	35 kN	35 kN		
CB15	W310x 52 /7	Λ	100 kN		
CB16	W310x52	100 kN	100 KN		
CB17	W310x79	100 kN	100 kN	Mf(R)=40 kN-m	
CB18	W310x79	40 _k kN	100 KI	/м Mf(L)=40 kN-m	
CB19	W310x28	40/111	25 kN	Mf(R)=30 kN-m	
CB20	W310x28	30 kN	20 kN	Mf(L)=30 kN-m	
CB20 CB21	W310x21	25 kN	25 kN	WII(L)=30 KIV-III	
CB21 CB22	W310x21 \	40 kN	7 40 kN		
CB22 CB23	W310x21 7	20 kN	20 kM		
CB23 CB24	W310x39 }	55 kN	55 kN	\land	
CB24 CB25	W310x33	\sim	50 kN	7	
		\$0 kN		AAF/D) - 20 IAI	
CB26	W310x45	60 kN	60 kN	Mf(R)=30 kN-m	
CB27	W310x45 \ W360x33	30 kN 15 kN	15 kN	Mf(L)=30 kN-m Rf mid=15-kN	
CB28	/ 7 \		15 KIN		
CB29	W360x64 /	165 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=270 kN-m	
CB30	W360x57	170 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=275 kN-m	
CB31	W360x79	235 kN		Hf(L)=10 kN Hf(R)=10 kN Mf(L)=390 kN-m	
CB32	W360x79	230 kN	005111	Hf(L)=10 kN Hf(R)=10 kN Mf(L)=390 kN-m	
CB33	W360x51	(45 kN) 7	285 kN	Hf(L)=10 kN Hf(R)=10 kN Tf=375 kN	
CB34	W360x39	(75 kN) ^X ′	430 kN	Hf(L)=10 kN Hf(R)=10 kN	
CB35	W360x39	(75 kN)	430 kN	Hf(L)=10 kN Hf(R)=10 kN	
CB36	₩360x51	(-55-kN)	350 kN	Hf(L)=10 kN Hf(R)=10 kN Tf=545 kN	
ĆB37	W360x33	15 kN	15 kN	Rf mid=5 kN	
CB39	HSS305x152x16	25 kN	25 kN	Hf(L)=10 kN Hf(R)=10 kN	
CB40	W360x33	40 kN	40 kN		
CB41	W360x33	20 kN	20 kN		
CB42	W200x15	15 kN	15 kN	Tf=10 kN	

Contractor must check and verify all dimensions on the job, and report any discepancies to the Architect before proceeding

Do not scale this drawing.

ADDENDUM S2

7 2021/09/28 ADDENDUM S2 2021/09/14 ADDENDUM S1 2021/09/09 ISSUED FOR BUILDING PERMIT 4 2021/08/30 ISSUED FOR TENDER

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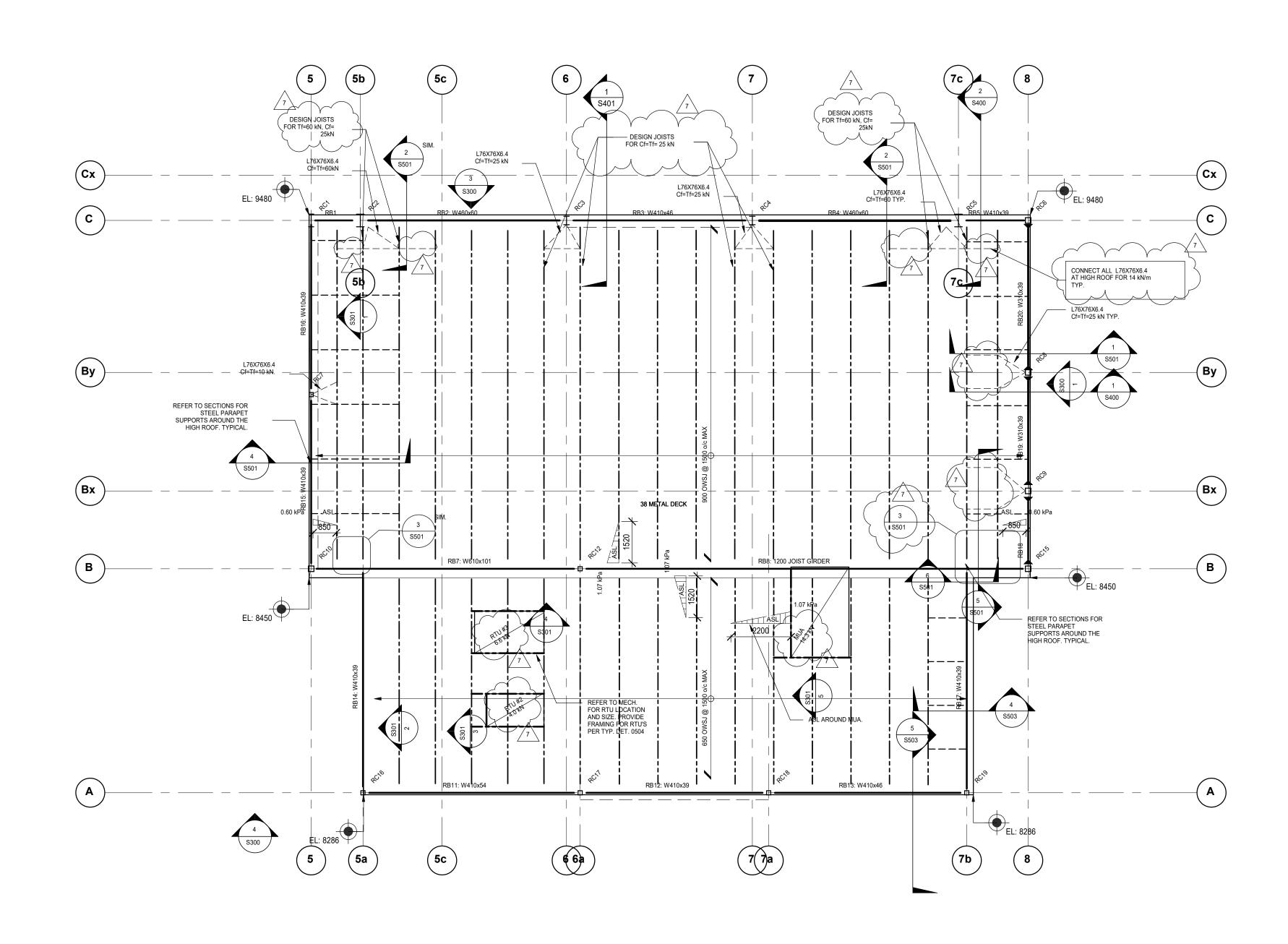
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

CHECKED: DM IFM PROJECT NUMBER: SCALE: As indicated 210112

SHEET TITLE: **SECOND & LOW ROOF** FRAMING PLAN

S101



	03 - HIGH ROOF FRAMING PLAN
	oo momeon muunton Eur
\ S102 /	1:100
	NOTES:

- ROOF DATUM IS FROM THE GROUND FLOOR DATUM AS NOTED IN SPOT ELEVATIONS.

 THE ROOF DATUM REPRESENTS THE UNDERSIDE OF METAL DECK AT CORNERS. THE ROOF SLOPES. REFER TO ARCHITECTURAL DRAWINGS FOR THE SLOPES.

 TOP OF STEEL BEAMS ARE 102 mm BELOW THE UNDERSIDE OF ROOF DECK UNLESS NOTED THUS. WHERE NOTED, THE DIMENSION IS RELATIVE TO THE ROOF DATUM.

 SUPERIMPOSED LOADS USED IN THE DESIGN:

 SNOW + RAIN LOAD: 2.88 kPa (PLUS SNOW ACCUMULATION SHOWN ON PLAN)
 DEAD:

- SNOW + RAIN LOAD.

 DEAD:

 ROOFING: 0.60 kPa
 SUSPENDED: 0.25 kPa

 SELF WEIGHT OF STRUCTURE USED IN THE DESIGN:

 METAL DECK: 0.15 kPa
 FRAMING: 0.35 kPa

STEEL BEAM SCHEDULE - HIGH ROOF					
MARK	SIZE	REACTIONS		DEMARKO.	
WARK		LEFT END	RIGHT END	REMARKS	
RB1	W410x39	45 kN	45 kN	Cf=15 kN Tf=15 kN	
RB2	W460x60	160 kN	160 kN	Cf=45 kN Tf=45 kN	
RB3	W410x46	145 kN	145 kN	Cf=75 kN Tf=75 kN	
RB4	W460x60	160 kN	160 kN	Cf=50 kN Tf=50 kN	
RB5	W410x39	60 kN	60 kN	Cf=15 kN Tf=15 kN	
RB7	W610x101	300 kN	355 kN		
RB8	1200 JOIST GIRDER	585 kN	545 kN		
RB11	W410x54	120 kN	130 kN	Cf=40 kN Tf=40 kN	
RB12	W410x39	95 kN	95 kN	Cf=70 kN Tf=70 kN	
RB13	W410x46	140 kN	115 kN	Cf=35 kN Tf=35 kN	
RB14	W410x39	35 kN	35 kN	Cf=30 kN Tf=30 kN	
RB15	W410x39	35 kN	35 kN	Cf=95 kN Tf=95 kN	
RB16	W410x39	35 kN	35 kN	Cf=95 kN Tf=95 kN	
RB17	W410x39	50 kN	50 kN	Cf=40 kN Tf=40 kN	
RB18	W310x39	30 kN	30 kN	Mf(L)=40 kN-m Mf(R)=40 kN-m Cf=40 kN Tf=40 kN	
RB19	W310x39	30 kN	30 kN	Mf(L)=25 kN-m Mf(R)=25 kN-m Cf=40 kN Tf=40 kN	
RB20	W310x39	30 kN	30 kN	Mf(L)=30 kN-m Mf(R)=30 kN-m Cf=40 kN Tf=40 kN	

STEEL BEAM SCHEDULE

- LEFT AND RIGHT ENDS OF BEAMS ARE DEFINED BY THE ORIENTATION OF THE BEAM MARK ON PLAN.
 REACTIONS GIVEN ARE FACTORED FORCES. REACTIONS WITHIN BRACKETS DENOTE FACTORED UPLIFT FORCES.
 DESIGN CONNECTIONS FOR AXIAL COMPRESSION (Cf), AXIAL TENSION (Tf), STRONG-AXIS MOMENT (Mf), TORSIONAL MOMENT (Tmf) OR OUT OF PLANE HORIZONTAL FORCE (Hf) SHOWN IN THE REMARKS COLUMN, IN ADDITION TO THE VERTICAL SHEAR PROVIDED IN THE REACTION COLUMN. THE (L) OR (R) SHOWN NEXT TO THE FORCE INDICATE THE LEFT OR RIGHT END, RESPECTIVELY.
 CAMBERS ARE IN mm. WHERE NO CAMBER IS INDICATED, REFER TO THE SPECIFICATION AND CSA S16.

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

Do not scale this drawing.

ADDENDUM S2

7 2021/09/28 ADDENDUM S2 6 2021/09/14 ADDENDUM S1 5 2021/09/09 ISSUED FOR BUILDING PERMIT 4 2021/08/30 ISSUED FOR TENDER 2021/08/25 ISSUED FOR TENDER REVIEW
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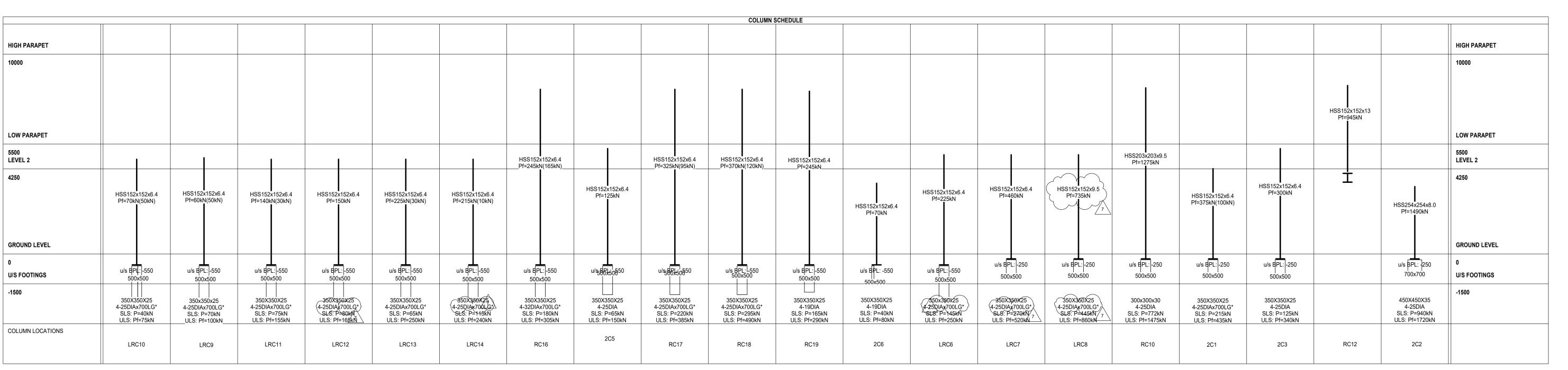
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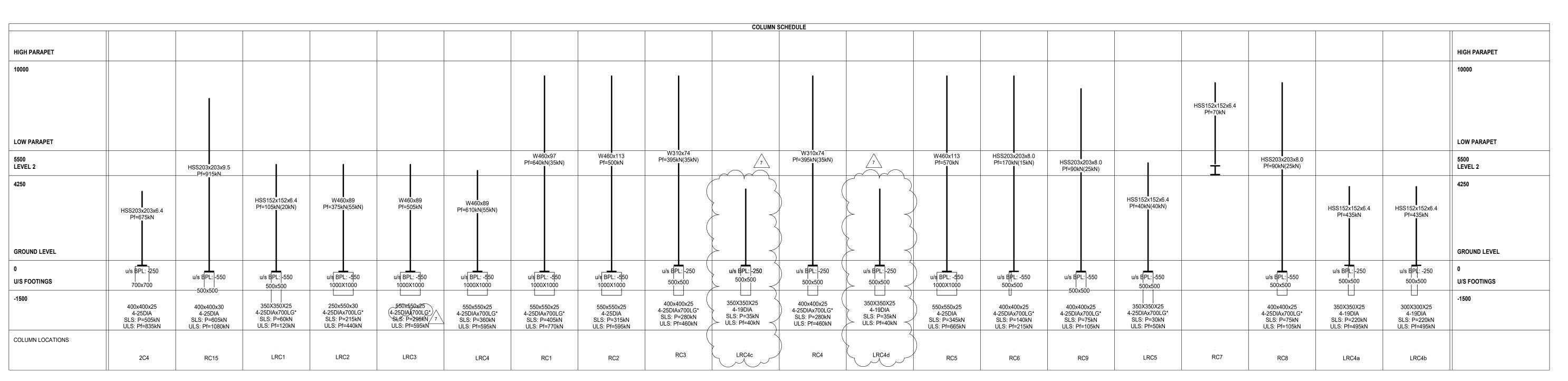
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

CHECKED: IFM DM PROJECT NUMBER: SCALE: As indicated 210112

SHEET TITLE: HIGH ROOF FRAMING PLAN





STEEL COLUMN SCHEDULE

- WHERE NOTED WITH AN ASTERISK (*) PROVIDE HEADED ANCHOR RODS; REFER TO TYPICAL DETAIL 0516. NOTE: PROVIDE 6.4mm PLATE WASHERS FOR ALL ANCHOR BOLTS LARGER THAN 25mm DIA. WITH HOLE TOLERANCE OF 1.6mm. WELD TO BASEPLATE AND ANCHOR BOLT
- FOR CAPACITY ON ALE MONTH DOLLAR THAN SHIRING DAY.

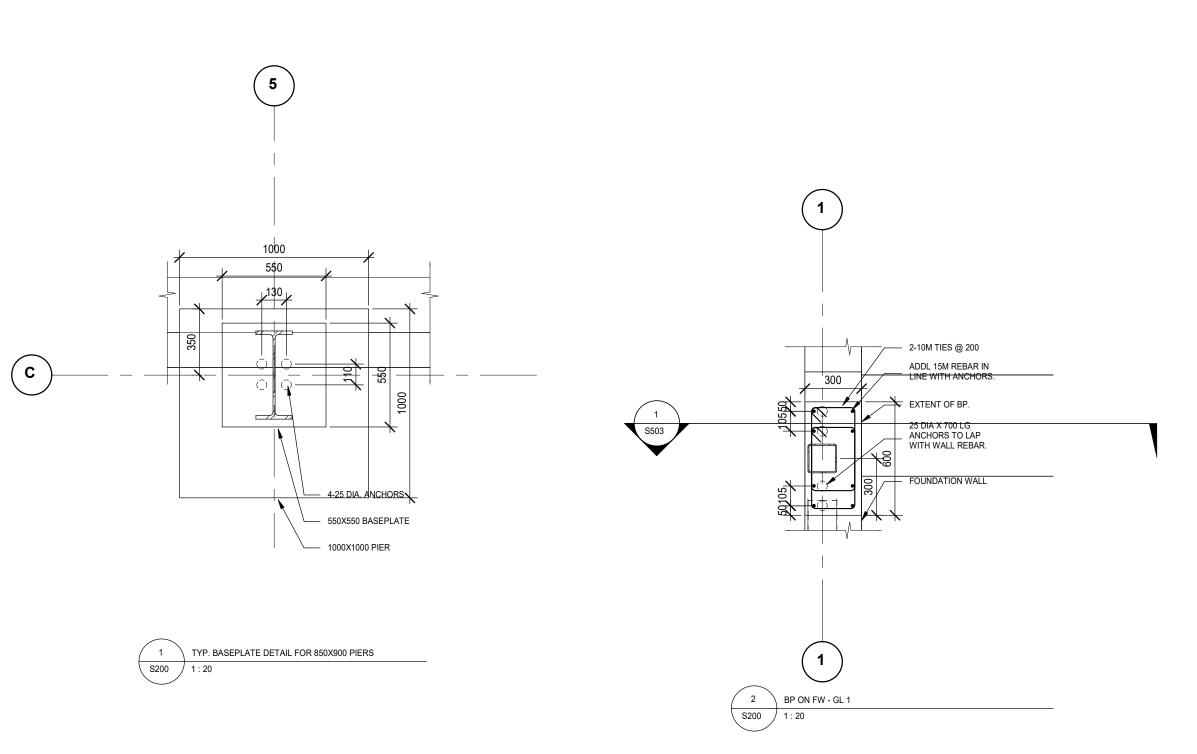
 FOR CAPACITY ONCE STEEL IS ERECTED AND PLUMB.

 CENTRE COLUMNS, CAPS AND FOOTINGS ON GRIDS UNLESS NOTED OTHERWISE.
- COLUMNS AND PIERS ARE ORIENTED AS SHOWN ON PLAN.

 COLUMN FORCES INDICATED ARE FACTORED IN kN AND BENDING MOMENTS (IF APPLICABLE) ARE FACTORED IN kN-m, UNLESS NOTED
- OTHERWISE.
 UPLIFT (TENSION) FORCES ARE PRESENTED IN BRACKETS BESIDE THE ASSOCIATED COMPRESSION FORCE, IF APPLICABLE. UPLIFT FORCES ARE FACTORED IN KN UNLESS NOTED OTHERWISE.

 WHERE MOMENTS OR SHEAR FORCES ARE PRESENTED SINGULARLY: THE MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION. IF THE
- COLUMN IS SQUARE, THE MOMENT/SHEAR FORCE IS IN BOTH DIRECTIONS UNLESS NOTED OTHERWISE.

 WHERE MOMENTS OR SHEARS ARE PRESENTED ABOUT TWO AXES: THE FIRST MOMENT/SHEAR FORCE IS IN THE STRONG DIRECTION AND
- THE SECOND IN THE WEAK DIRECTION. IF THE COLUMN IS SQUARE, THE FIRST MOMENT/SHEAR FORCE IS PARALLEL TO THE NORTH-SOUTH
- DIRECTION.
 REFER TO TYPICAL DETAIL 0303 UNLESS NOTED OTHERWISE.
 PROVIDE 4-19 DIAM. HOOKED ANCHOR BOLTS AS PER TYPICAL DETAIL 0303 UNLESS NOTED OTHERWISE. WHERE HEADED ANCHOR RODS ARE SPECIFIED REFER TO TYPICAL DETAIL 0516.



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Do not scale this drawing.

ISSUE: ADDENDUM S2

> 7 | 2021/09/28 | ADDENDUM S2 2021/09/14 ADDENDUM S1 2021/09/09 ISSUED FOR BUILDING PERMIT 2021/08/30 ISSUED FOR TENDER 2021/08/25 ISSUED FOR TENDER REVIEW 2021/08/11 ISSUED FOR COORDINATION 2021/07/16 Issued for Class B Costing

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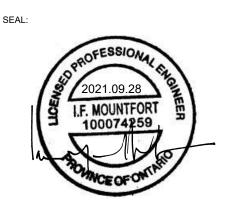
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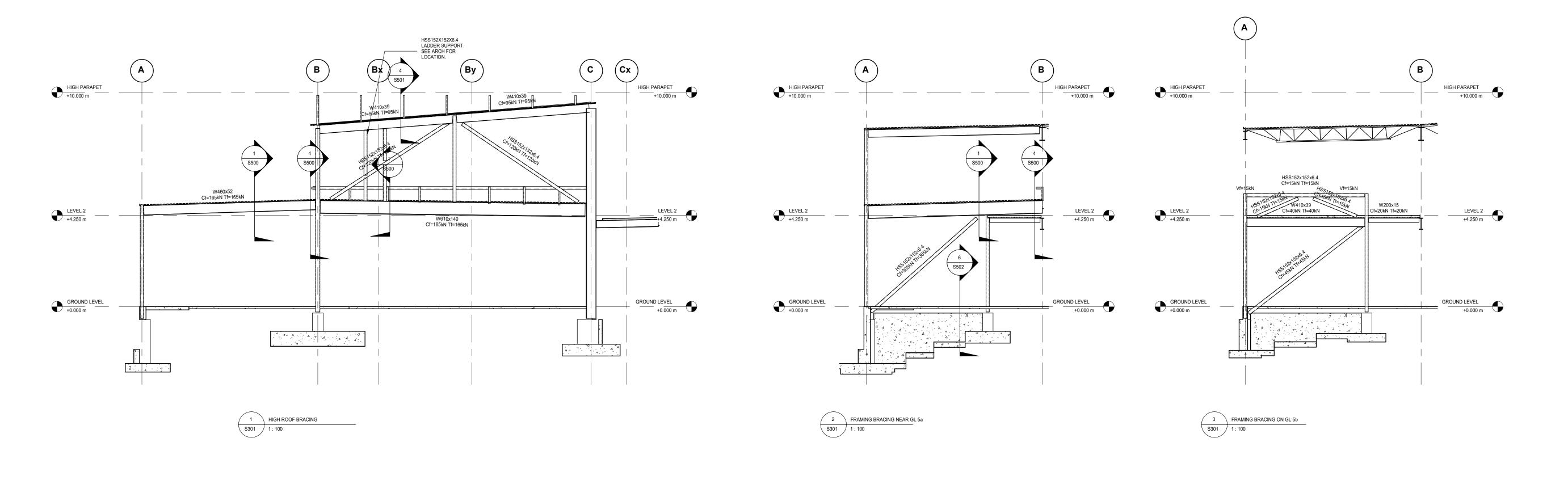
PROJECT NAME: **NEW SAYERS FOOD** STORE BURLEIGH STREET, APSLEY

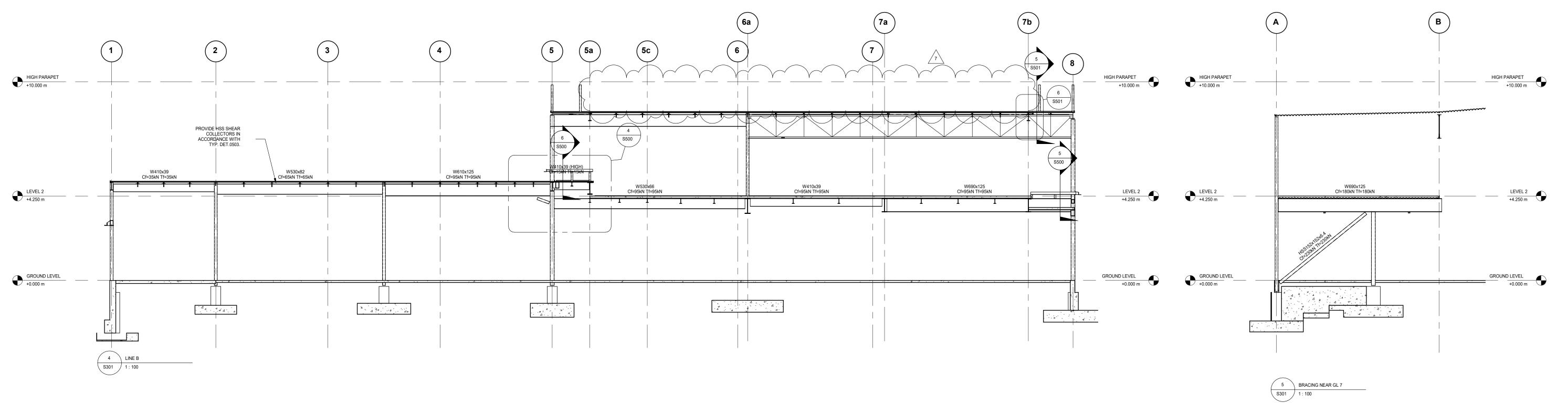
PROJECT ADDRESS: 132 Burleigh Street



DM	IFM
SCALE: As indicated	PROJECT NUMBER: 210112

COLUMN SCHEDULE





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7 2021/09/28 ADDENDUM S2
6 2021/09/14 ADDENDUM S1
5 2021/09/09 ISSUED FOR BUILDING PERMIT
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PROJECT NAME:

NEW SAYERS FOOD

STORE BURLEIGH

STREET, APSLEY

PROJECT ADDRESS:

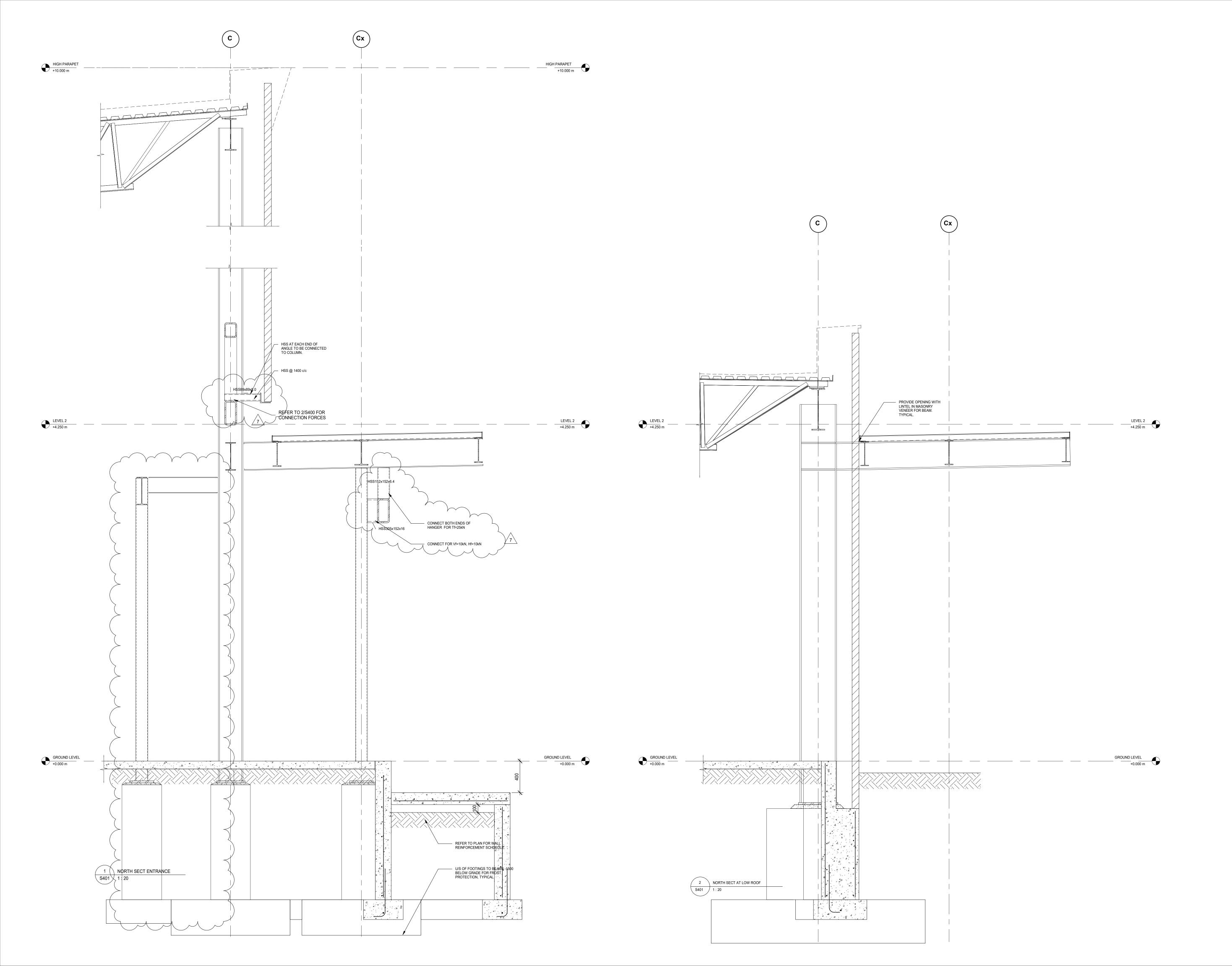
132 Burleigh Street

PROFESSIONAL GRADE 2021.09.28

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SHEET TITLE:
FRAMING ELEVATIONS



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ADDENDUM S2

7	2021/09/28	ADDENDUM S2
6	2021/09/14	ADDENDUM S1
5	2021/09/09	ISSUED FOR BUILDING PERMIT
4	2021/08/30	ISSUED FOR TENDER
3	2021/08/25	ISSUED FOR TENDER REVIEW
2	2021/08/11	ISSUED FOR COORDINATION
MARK	DATE	DESCRIPTION

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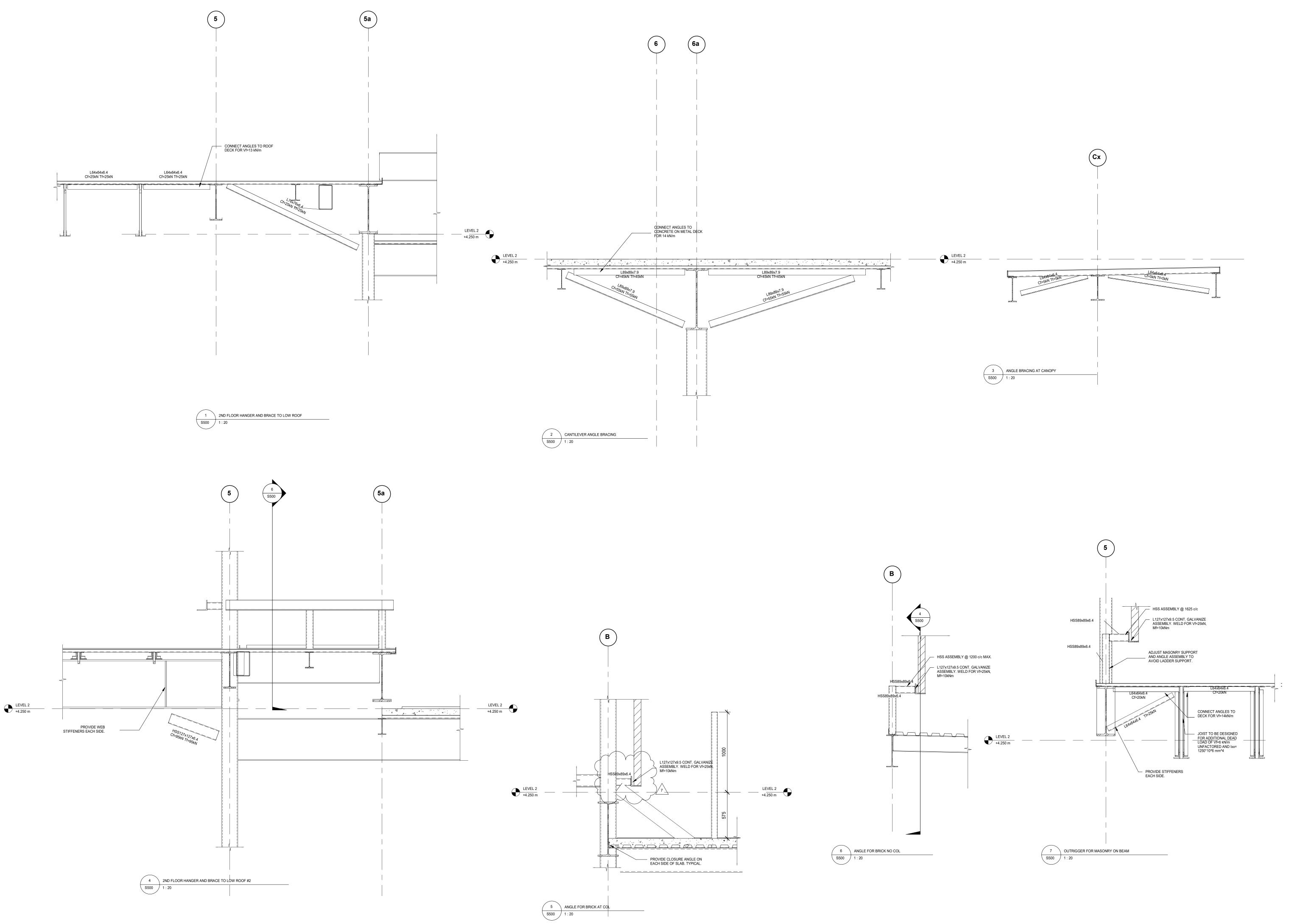
NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

132 Burleigh Street



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scale: 1:20	PROJECT NUMBER: 210112

BUILDING SECTIONS



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ISSUE: ADDENDUM S2

7 2021/09/28 ADDENDUM S2
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PROJECT NAME:

NEW SAYERS FOOD

STORE BURLEIGH

STREET, APSLEY

PROJECT ADDRESS:

132 Burleigh Street

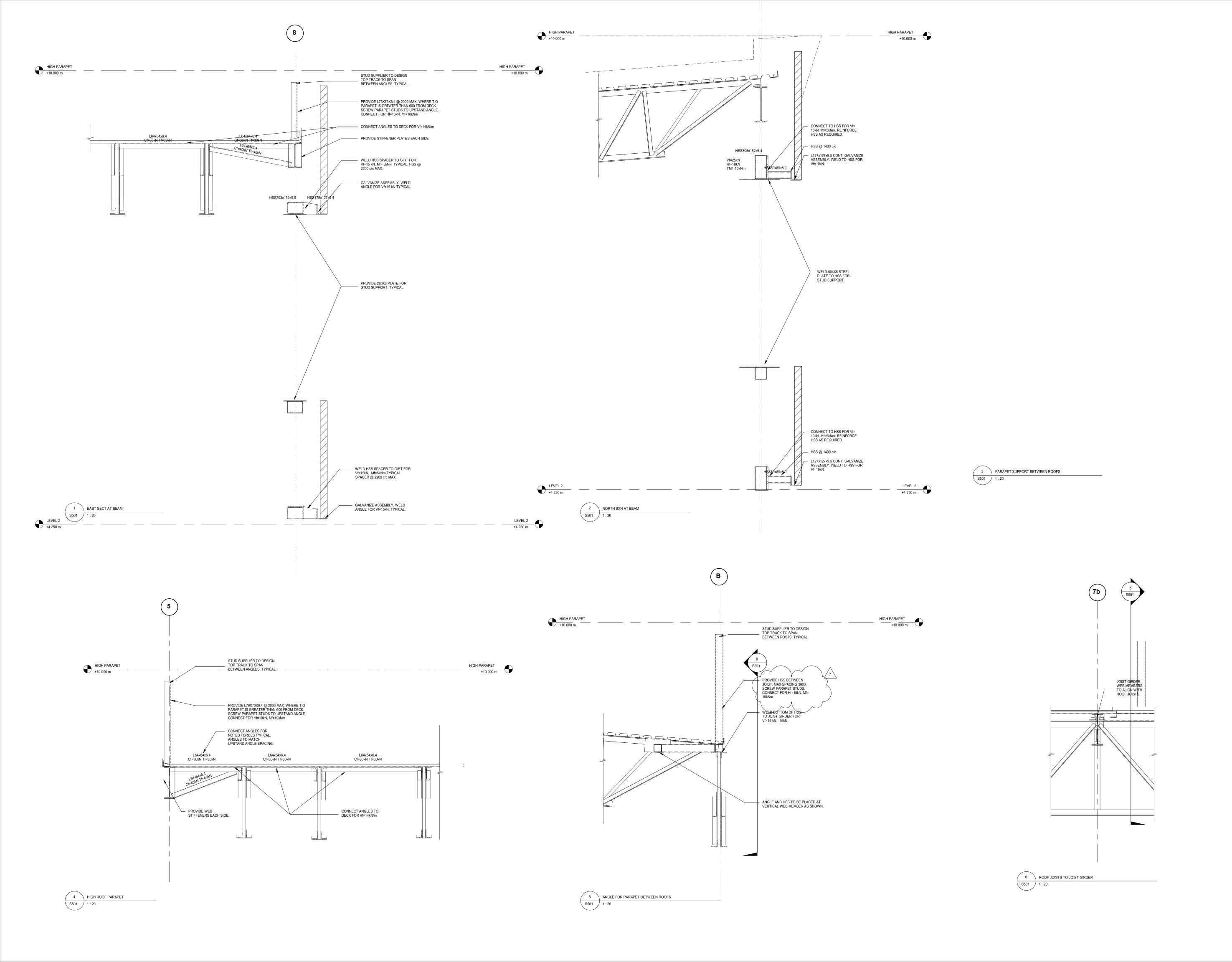


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	DM SCALE:

SHEET TITLE:

DETAILED SECTIONS

DETAILED GEGINGING



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 4 2021/08/30 ISSUED FOR TENDER 3 2021/08/25 ISSUED FOR TENDER REVIEW
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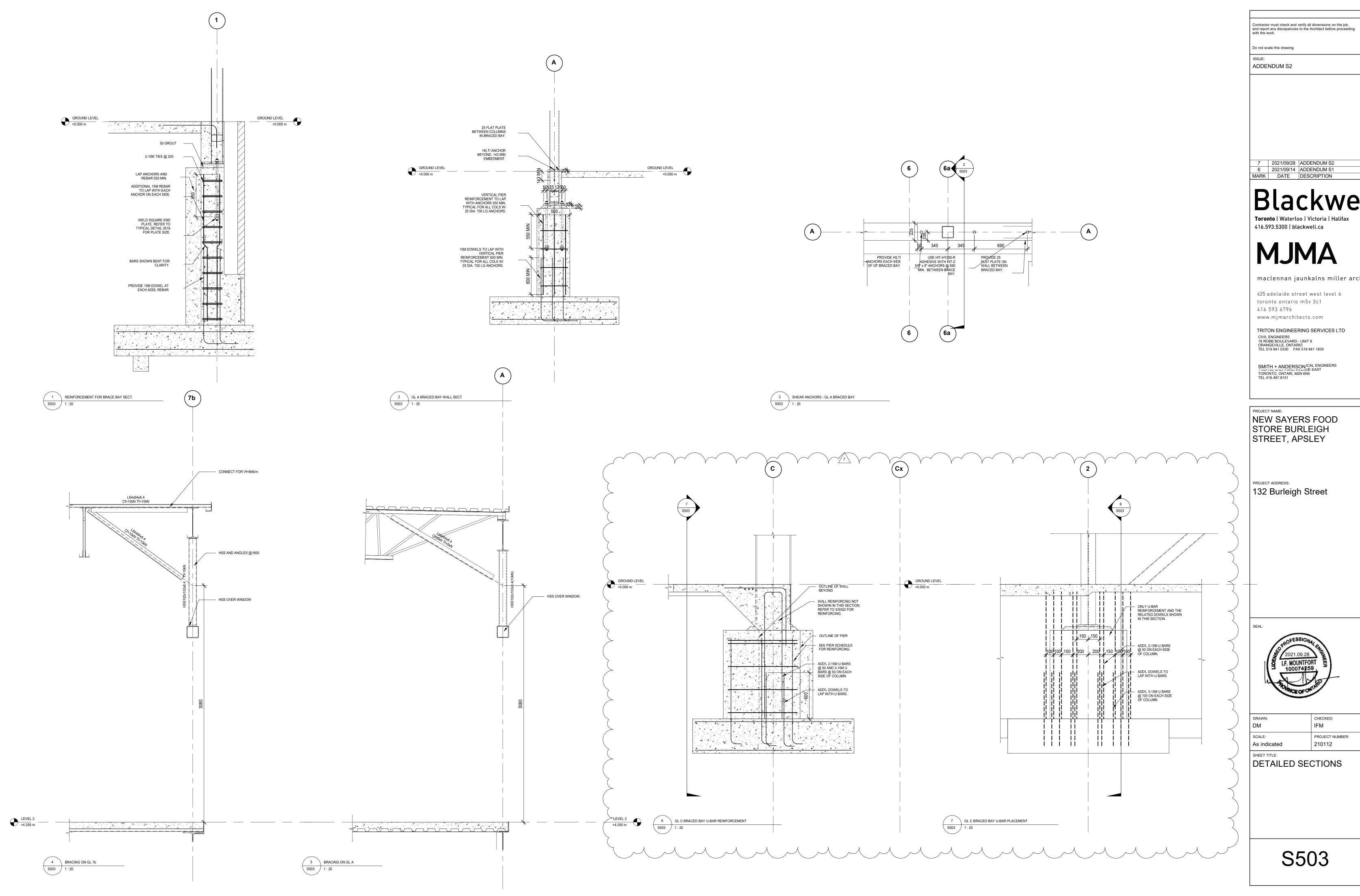
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PROJECT NAME: NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

PROJECT ADDRESS: 132 Burleigh Street

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SCALE:	PROJECT NUMBER:	
1:20	210112	

SHEET TITLE: DETAILED SECTIONS



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SCALE:	PROJECT NUMBER:



Smith + Andersen

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PROJECT NAME: New Sayers Food Store, Apsley, ON					
COMPANY: MJMA					
ATTENTION: Andrew Bramm					
PROJECT NO.: 21376.000.e001	DATE: 2021-09-27				
ADDENDUM NO.: E-03	ISSUED BY: James Back				
The following amendments are hereby made as part of the Contract Documents, the cost shall be included in the Tender Price.	The following revisions and/or additions shall be made to contract documents and				

1.0 SCHEDULES

- 1.1 Refer to LIGHTING SCHEDULE (included herein)
- 1.1.1 Add fixture type L27.
- 1.2 Refer to RP-1A (included herein)
- 1.2.1 Add 15A-2P breaker to circuits 113 & 115 for Walk-in Dairy Cooler Evaporator.
- 1.2.2 Add 15A-2P breaker to circuits 117 & 119 for Walk-in Meat Cooler Evaporator.
- 1.2.3 Add 15A-2P breaker to circuits 121 & 123 for Walk-in Produce Cooler Evaporator.
- 1.2.4 Add 15A-2P breaker to circuits 125 & 127 for Walk-in Deli Cooler Evaporator.
- 1.2.5 Add 20A-3P breaker to circuits 129, 131 & 133 for Walk-in Grocery Freezer Evaporator.
- 1.2.6 Add 20A-3P breaker to circuits 135, 137 & 139 for Walk-in Bakery Freezer Evaporator.
- 2.0 DRAWINGS
- 2.1 Refer to E100 SITE PLAN ELECTRICAL (included herein)
- 2.1.1 Revise canopy/garden centre lighting layout as bubbled in attached drawing.
- 2.1.2 Remove fixture of type L4 as bubbled in attached drawing.
- 2.1.3 Relocate well pump as bubbled in attached drawing.
- 2.2 Refer to E300 GROUND LEVEL POWER AND SYSTEMS (included herein)

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2.2.1	Add two(2) receptacles on circuit RP-1A.111 in vestibule as bubbled in attached drawing.
2.2.2	Add direct connection to walk-in dairy (122) on circuit RP-1A.113,115 as bubbled in attached drawing.
2.2.3	Add direct connection to freezer (120) on circuit RP-1A.129,131,133 as bubbled in attached drawing.
2.2.4	Add direct connection to meat cooler (118) on circuit RP-1A.117,119 as bubbled in attached drawing.
2.2.5	Add direct connection to walk-in produce (117) on circuit RP-1A.121,123 as bubbled in attached drawing.
2.3	Refer to E301 - SECOND LEVEL - POWER AND SYSTEMS (included herein)
2.3.1	Revise locations of electrical room equipment to accommodate duct work as bubbled in attached drawing.
2.3.2	Relocate two(2) electric baseboard heaters and add one(1) electric baseboard heater as bubbled in attached drawing.
2.4	Refer to E400 - GROUND LEVEL - LIGHTING (included herein)
2.4.1	Revise layout and add one(1) fixture of type L12 to meat display as bubbled in attached drawing.
2.4.2	Revise four(4) fixtures of type L12 to be of type L27 as bubbled in attached drawing.
2.5	Refer to E401 - SECOND LEVEL - LIGHTING (included herein)
2.5.1	Add one(1) fixture of type L8 over entrance as bubbled in attached drawing.
2.5.2	Add three(3) fixtures of type L27 as bubbled in attached drawing.
2.5.3	Revise locations of four(4) fixtures of type L20 as bubbled in attached drawing.
2.5.4	Add one(1) undercounter fixture of type L26 as bubbled in attached drawing.
2.6	Refer to E500 - ENLARGED PLANS (included herein)
2.6.1	Add direct connection to walk-in cooler (113) on circuit RP-1A.125,127 as bubbled in attached drawing.
2.6.2	Add direct connection to walk-in freezer (114) on circuit RP-1A.135,137,139 as bubbled in attached drawing.

END OF ELECTRICAL ADDENDUM

21376.000.e001.add-e03

						Interior Lights		
LIGHT	VOLT.	LAMP(S)	LOCATION	TYPE	MINIMUM	MANUFACTURER/PART #	LINKS	Image
NUMBER					PERFORMANCE			
					REQUIRED			
L12	120V	25W	VESITUBLE	POT LIGHT	2500 LUMENS	Signify - 6-R-N-Z6RDL-25-**-W-O-CD-Z10-U	https://www.signify.com/api/assets/v1/file/Signify/content/0774a0	
			DELI/BAKERY				e71c26439d9299aa3e00d4a06d/EasyLyte-4in-Z4RDL.pdf	
L13			RESERVED					
			RESERVES					
L14	120V	35W	B.O.H PREP - EXPOSED CLG	LINEAR VAPORTIGHT	5100 LUMENS	Signify V3W-4-51-**-UNV-DIM	https://www.signify.com/api/assets/v1/file/PhilipsLighting/content	
							/06defc765c854bbea881aa3e00d638f1/V3W Vaporlume LED.pdf	(F)
								Control options available
L15	4201/	2414	B.O.H PREP - GWB CLG	LINEAR RECESSED	2000 LUMENS	Lumenwerx. V2SEALR-D-WET-EPDO-SW-	hundring the second sec	~
LIS	120V	21W	SHOWER/WASHROOM	LINEAR RECESSED	2000 LUIVIENS	80-500-**-4FT-120-D1. Fully sealed	https://lumenwerx.com/wp-content/files/VIA2SEAL-RECESSED- SPEC.pdf	
			SHOWER, WASHROOM			00-00041 1-120-D1. 1 dily 3calcu	<u>SFEC.pui</u>	
L16	120V	50W	SERVICE/STORAGE ROOMS	LINEAR SUSPENDED	5000 LUMENS	Visioneering LCOM-48-LED-8-**-050LC-UNV-	https://www.viscor.com/en/docs/LCOM_Spec_Sheet_v2.pdf	. 0
						P77 w/hanging kit		
								P77
1				1				
L17	_		DECEDIED.					
11/			RESERVED					

ISSUED FOR TENDER -2021.08.27 21376.000

		1		T		I		
L18	120V		MAIN DOUBLE HEIGHT SPACE	SUSPENDED HIGH BAY	7771 LUMENS	Low Bay - 3D printed BAL-NAM-S-80S-**-WH200-WR	https://www.tailored.lighting.philips.com/en/BA-Series/	
L19	120V		DELI/BAKERY	COVE		Color Kinetics eW Fuse	https://www.colorkinetics.com/global/products/essentialwhite/ewfusepc	
L20	120V	24W	OFFICES CORRIDOR	LINEAR RECESSED		Lumenwerx. VIA2R-HLO-FH-LED-**-**-**- **-D1	https://lumenwerx.com/wp-content/files/VIA2-RECESSED-SPEC.pdf	
L21	120V		STAIR	LINEAR WALL		Signify CSW-48-**-**-U-DZT-**	https://www.signify.com/api/assets/v1/file/PhilipsLighting/content /e7b608e764e848a0bbf3a87f01123374/cubelite_led.pdf	
122			RESERVED					

ISSUED FOR TENDER -2021.08.27 21376.000

L23			RESERVED					
L24	120V		UNDER CABINET	LINEAR		Senso Lighting - 0706 channel with OAK30 LED tape	Extrusion - https://www.luminii.com/wp-content/uploads/z special catalog products/products/0706-channel/specsheets/0706%20channel-specifications.pdf	0.68* (7/25mm) + 0.68*
L24	120V		UNDER CABINET	LINEAR		Senso Lighting - 0706 channel with OAK30 LED tape	LED Tape - https://www.luminii.com/wp- content/uploads/z special catalog products/products/oax- 30/specsheets/oax30-cct%20(265.65%20lum ft)-specifications.pdf	PROPOSED OF STATE OF
L25	120V	20W 3500K	HIGH BAY PRODUCE DISPLAY	Track	2000 LUMENS	Onlight RADDO-20-**-90-WFL-1-**	https://onlight.ca/en/product/raddo/	
L26	120V	6W/FT	SHELVING	Low Shelving Lighting	700 LUMENS/FT	Onlight Line uP LINEUP-7-10-**-90-AM-1-**-***	https://onlight.ca/en/product/line-up/	
L27	120V		BISTRO	PENDANT		Visa Lighting CP4515	https://www.visalighting.com/sites/default/files/CP4515%20School %20Haus SPEC.pdf	

ISSUED FOR TENDER -2021.08.27 21376.000

PANEL: RP-1A

PROJECT NAME: NEW SAYERS FOOD STORE

PROJECT #: 21376.000

LOCATION: SERVICE ROOM 121

FED FROM: SWBD-1A

Smith + Andersen



TYPE/	DESCRIPTION	D.F	CONN.	DEMAND	BKR	CCT	Φ	CCT	BKR		CONN.	D.F	DESCRIPTION	TYPE/
INFO		[%]	LOAD [W]	LOAD [W]	[A]	NO.		NO.	[A]	LOAD [W]	LOAD [W]	[%]		INFO
D.C	001A - 12' PRODUCE COOLER FANS	75	68	51	15	1	Α	2	20	292	292	100	LTG - PARKING LOT	LTS
D.C	001B - 8' PRODUCE COOLER FANS	75	46	34	15	3	В	4	20	38	38	100	LTG - PARKETTE	LTS
D.C	004 - 12' SALAD COOLER FANS	75	68	51	15	5	C	6	20	120	120	100	LTG - FAÇADE SERVICE (SOUTH & WEST)	LTS
D.C	035 - CAKE FANS	75	23	17	15	7	Α	8	20	586	586	100	LTG - FAÇADE & CANOPY (NORTH & EAST)	LTS
D.C	036 - 2 DR BAKERY FREEZER FANS & HEAT	75	503	377	15	9	В	10	20	144	144	100	LTG - SIGNAGE & ACCENT (NORTH & EAST)	LTS
D.C	036 - 2 DR BAKERY FREEZER	75	700	525	15	11	C	12	15	200	200	100	SAN. TANK CONTROL PANEL	D.C
	ELECTRIC DEFROST HEATER	75	700	525	2P	13	Α	14	15	716	716	100	001/004/035/036/041 - LIGHTS	D.C
	SPARE	75	0		15	15	В	16	15	668	668	100	044/045 - LIGHTS	D.C
D.C	040 - MEAT DISPLAY	75	1681	1260	30	17	C	18	15			100	051 - COOLER LIGHTS	D.C
		75	1681	1260	2P	19	Α	20	15	336	336	100	052 - COOLER LIGHTS	D.C
D.C	040 - MEAT DISPLAY	75	1681	1260	30	21	В	22	15			100	060 - FREEZER LIGHTS	D.C
		75	1681	1260	2P	23	O	24	15			100	061 - COOLER LIGHTS	D.C
D.C	041 - 12' MEAT SHELF FANS	75	182	137	15	25	Α	26	15			100	LOADING DOCK LIGHTS	REC
D.C	041 - 12' MEAT SHELF FANS	75	182	137	15	27	В	28				100		
D.C	044A - 5 DR DAIRY FANS & HEAT	75	344	258	15	29	С	30				100		
D.C	044A - 5 DR DAIRY FANS & HEAT	75	344	258	15	31	Α	32	20	950	950	100	LTG - LOADING, FOOD PREP, W/R, STAIRS	LTS
D.C	044B - 3 DR DAIRY FANS & HEAT	75	134	101	15	33	В	34	20	350	350	100	LTG - SHELVING	LTS
D.C	045 - 5 DR FREEZER FANS & HEAT	75	1904	1428	20	35	С	36	20	1375	1375	100	LTG - CHECKOUT, PRODUCE DISPLAY	LTS
D.C	045 - 5 DR FREEZER	75	3499	2624	25	37	Α	38	20	280	280	100	LTG - TRACK & COVE LIGHTING	LTS
	ELECTRIC DEFROST HEATER	75	3499	2624	↓	39	В	40	30	2000	2667	75		
		75	3499	2624	3P	41	С	42	\downarrow	2000	2667	75	FFH-01-01	
D.C	045 - 5 DR FREEZER	75	3499	2624	25	43	Α	44	3P	2000	2667	75		
	ELECTRIC DEFROST HEATER	75	3499	2624	↓	45	В	46				75		
		75	3499	2624	3P	47	С	48				75		
D.C	045 - 5 DR FREEZER	75	3499	2624	25	49	Α	50				75		
	ELECTRIC DEFROST HEATER	75	3499	2624	↓	51	В	52				75		
		75	3499	2624	3P	53	С	54				75		
D.C	045 - 5 DR FREEZER FANS & HEAT	75	1904	1428	20	55	Α	56	15	338	450	75	REC - EXTERIOR (WEST)	REC
D.C	045 - 5 DR FREEZER FANS & HEAT	75	1904	1428	20	57	В	58	15			75	LEVELER (LOADING DOCK)	REC
D.C	045 - 5 DR FREEZER FANS & HEAT	75	1904	1428	20	59	С	60	15				CONTROL BOX (LOADING DOCK)	D.C
D.C	045 - 5 DR FREEZER	75	3499	2624	25	61	Α	62	15				OVERHEAD DOOR (LOADING DOCK)	D.C
	ELECTRIC DEFROST HEATER	75	3499	2624	↓	63	В	64	20	563	750	75	HK REC (LOADING DOCK, SHELVING)	REC
		75	3499	2624	3P	65	С	66	15	675	900	75	REC (MEAT PREP, PRODUCE PREP, W/R)	REC
REC	046 - CHECKOUT	75	300	225	15	67	Α	68	15	450	600	75	FLOORBOX (SHELVING)	REC
REC	046 - CHECKOUT	75	300	225	15	69	В	70	15	450	600	75	FLOORBOX (SHELVING)	REC
REC	046 - CHECKOUT	75	300	225	15	71	С	72	20	450	600	75	HK REC (CHECKOUT, MEAT DISP., STAIR)	REC
REC	046 - CHECKOUT	75	300	225	15	73	Α	74	15	338	450		REC (CHECKOUT)	REC

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PANEL: RP-1A

PROJECT NAME: NEW SAYERS FOOD STORE

PROJECT #: 21376.000

PANEL OPTIONS:

LOCATION: SERVICE ROOM 121

FED FROM: SWBD-1A

Smith + Andersen



120

TYPE/ INFO	DESCRIPTION	D.F [%]	CONN.	DEMAND LOAD [W]		CCT NO.	Φ	CCT NO.	BKR [A]		CONN. LOAD [W]	D.F	DESCRIPTION	TYPE/ INFO
	0.47 105 144 01 1115		LOAD [VV]	LOAD [VV]		-	_					-	DEG (DDODLIGE BIODLAY)	
	047 - ICE MACHINE	75			15	75	В	76	15	338	450		REC (PRODUCE DISPLAY)	REC
	051 - COOLER COILS	75			15	77	С	78	15	563	750	_	REC - EXTERIOR (EAST)	REC
D.C	052 - COOLER COILS	75			15	79	Α	80	40	2100	2800		AC-02	
D.C	053 - MEAT GRINDER	75	2764	2073	40	81	В	82	2P	2100	2800	75		
		75	2764	2073	. ↓	83	С	84	15	675	900		EB-03, EB-04	
		75	2764	2073	3P	85	Α	86	2P	675	900	75		
REC	056A - MEAT GRINDER	75	5034	3775	60	87	В	88	20	1125	1500		UH-01	
		75	5034	3775	\downarrow	89	С	90	2P	1125	1500	75		
		75	5034	3775	3P	91	Α	92	40	2100	2800	_	AC-01	
REC	056B - TENDERIZER ADD-ON	75	460	345	15	93	В	94	2P	2100	2800	75		
REC	057 - ELECTRIC MEAT BONE SAW	75	1508	1131	25	95	С	96	15			0	SPARE	
		75	1508	1131	\downarrow	97	Α	98	15	675	900	75	EB-01, EB-02	
		75	1508	1131	3P	99	В	100	2P	675	900	75		
D.C	060 - FREEZER COILS	75			15	101	С	102	35	2250	3000	75		
		75			↓	103	Α	104	\downarrow	2250	3000	75	AC-03 (circuit #1)	
		75			3P	105	В	106	3P	2250	3000	75		
D.C	061 - COOLER COILS	75			15	107	С	108	45	2250	3000	75		
REC	067 - ICE MACHINE	75			15	109	Α	110	\downarrow	2250	3000	75	AC-03 (circuit #2)	
REC	VESTIBULE RECEPTACLES	75			15	111	В	112	3P	2250	3000	75	, , ,	
D.C	WALK-IN DAIRY COOLER	100			15	113	С	114	20	1125	1500	75	UH-02	
	EVAPORATOR	100			2P	115	Α	116	2P	1125	1500	75		
D.C	WALK-IN MEAT COOLER	100			15	117	В	118				100		
	EVAPORATOR	100			2P	119	С	120				100		
D.C	WALK-IN PRODUCE COOLER	100			15	121	Α	122				100		
	EVAPORATOR	100			2P	123	В	124				100		
D.C	WALK-IN DELI COOLER	100			15	125	С	126				100		
	EVAPORATOR	100			2P	127	A	128				100		
D.C	WALK-IN GROCERY FREEZER	100			20	129	В	130				100		_
5.0	THE IN GROUP THE PERSON	100				131	С	132				100		
	EVAPORATOR	100			3P	133	A	134				100		
D.C	WALK-IN BAKERY FREEZER	100			20	135	В	136				100		+-
5.0	TALL IN DANLINI I INCLECT	100			-	137	С	138				100		_
	EVAPORATOR	100			. ↓ 3P	139	A	140				100		-
	EVAFORATOR	100			٦٢	141	В	140				100		
						141	С					100		+
		100				143	C	144		ĺ		100		

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PHASE VOLTAGE [V]:

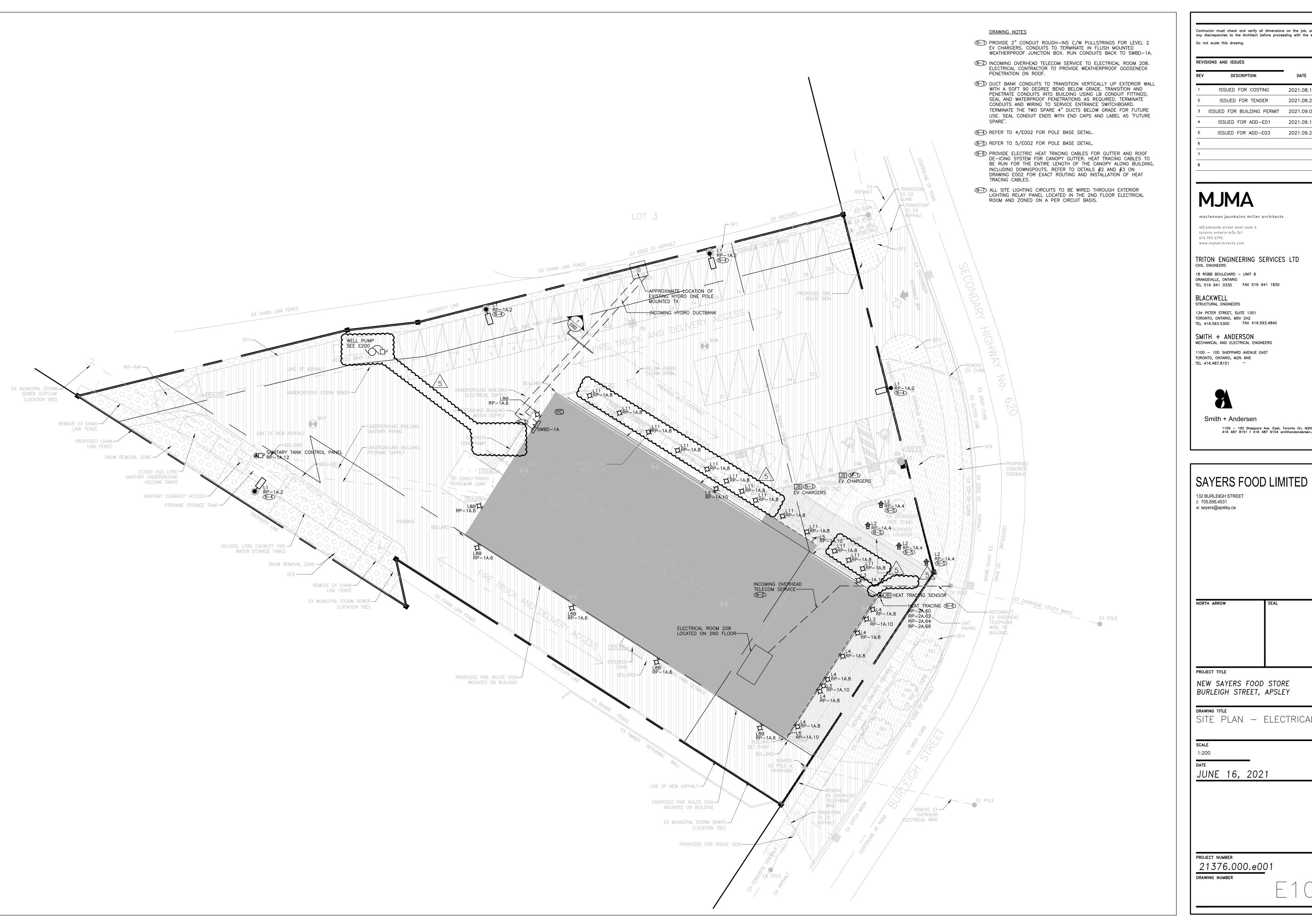
39.1

LOAD A [KW]:

PANEL: RP-1A LOCATION: SERVICE ROOM 121 PROJECT NAME: NEW SAYERS FOOD STORE Smith + Andersen PROJECT #: 21376.000 FED FROM: SWBD-1A DEMAND BKR DEMAND TYPE/ D.F CONN. CCT Φ CCT BKR CONN. D.F DESCRIPTION TYPE/ **DESCRIPTION** LOAD [W] LOAD [W] [A] [A] LOAD [W] LOAD [W] [%] INFO [%] NO. NO. INFO X FLUSH LOAD B [KW]: LINE VOLTAGE [V]: 36.4 :CSA ENCLOSURE RATING 208 FEED THROUGH SURFACE LOAD C [KW]: 36.7 PHASE: 3Ф **BOLT-ON BREAKER** WIRE: SUB-FEED TOTAL [KW]: 112 SPD MAIN BREAKER MAINS [A]: 400 MAIN BREAKER [A]: 200% RATED NEUTRAL BUS CURRENT A [A]: 326 400 CURRENT B [A]: I.C. [kA]: ISOLATED GROUND BUS 304 25 CURRENT C [A]: 306 EGEND: NOTES: BAS-Building Automation System R.C-Relay Controlled LTS-Lighting 1. Panel Enclosure To Be Sprinklerproof. HID-High Intensity Discharge 2. Panels greater than 66 circuits to be double tub. GFCI-Ground Fault Circuit Interrupter M-Motor Lighting Breaker D.F-Demand Factor AFCI-Arc Fault Circuit Interrupter 3. Surge Protection Device (SPD) to be in a separate barriered SPD - Surge Protection Device REC-Receptacle D.C-Direct Connection enclosure with separate cover.

BLO-Breaker Lock-On Device

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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.

1	ISSUED FOR COSTING	2021.08.17
2	ISSUED FOR TENDER	2021.08.27
3	ISSUED FOR BUILDING PERMIT	2021.09.09
4	ISSUED FOR ADD-E01	2021.09.15
5	ISSUED FOR ADD-E03	2021.09.27

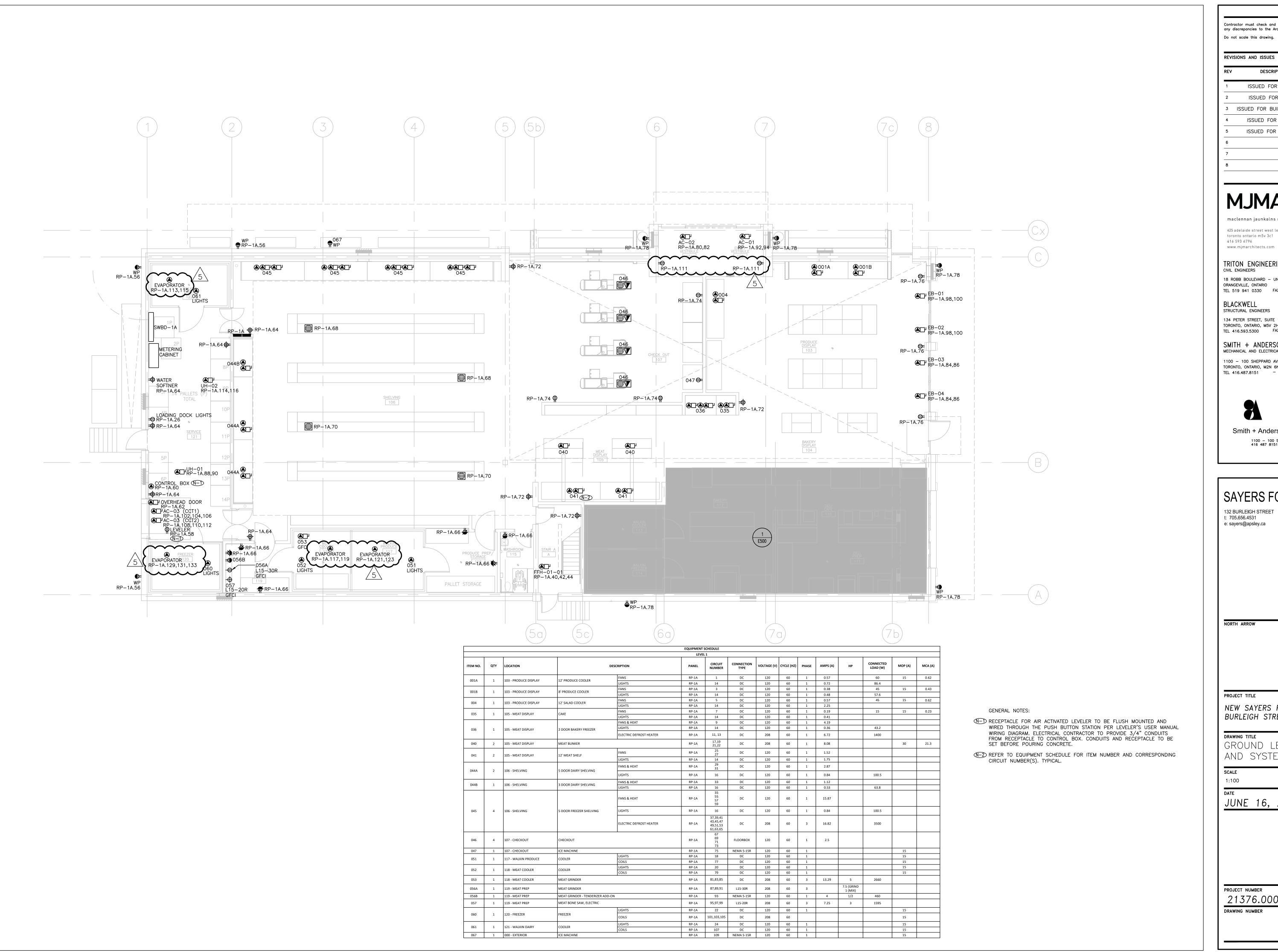
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Η	ARROW	SEAL

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

SITE PLAN - ELECTRICAL



Contractor must check and verify all dimensions on the job, and report Do not scale this drawing.

REV	DESCRIPTION	DATE	BY
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
4	ISSUED FOR ADD-E01	2021.09.15	
5	ISSUED FOR ADD-E03	2021.09.27	
6			
7			

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132 BURLEIGH STREET t: 705.656.4531 e: sayers@apsley.ca

NORTH ARROW	SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

GROUND LEVEL - POWER AND SYSTEMS

SCALE

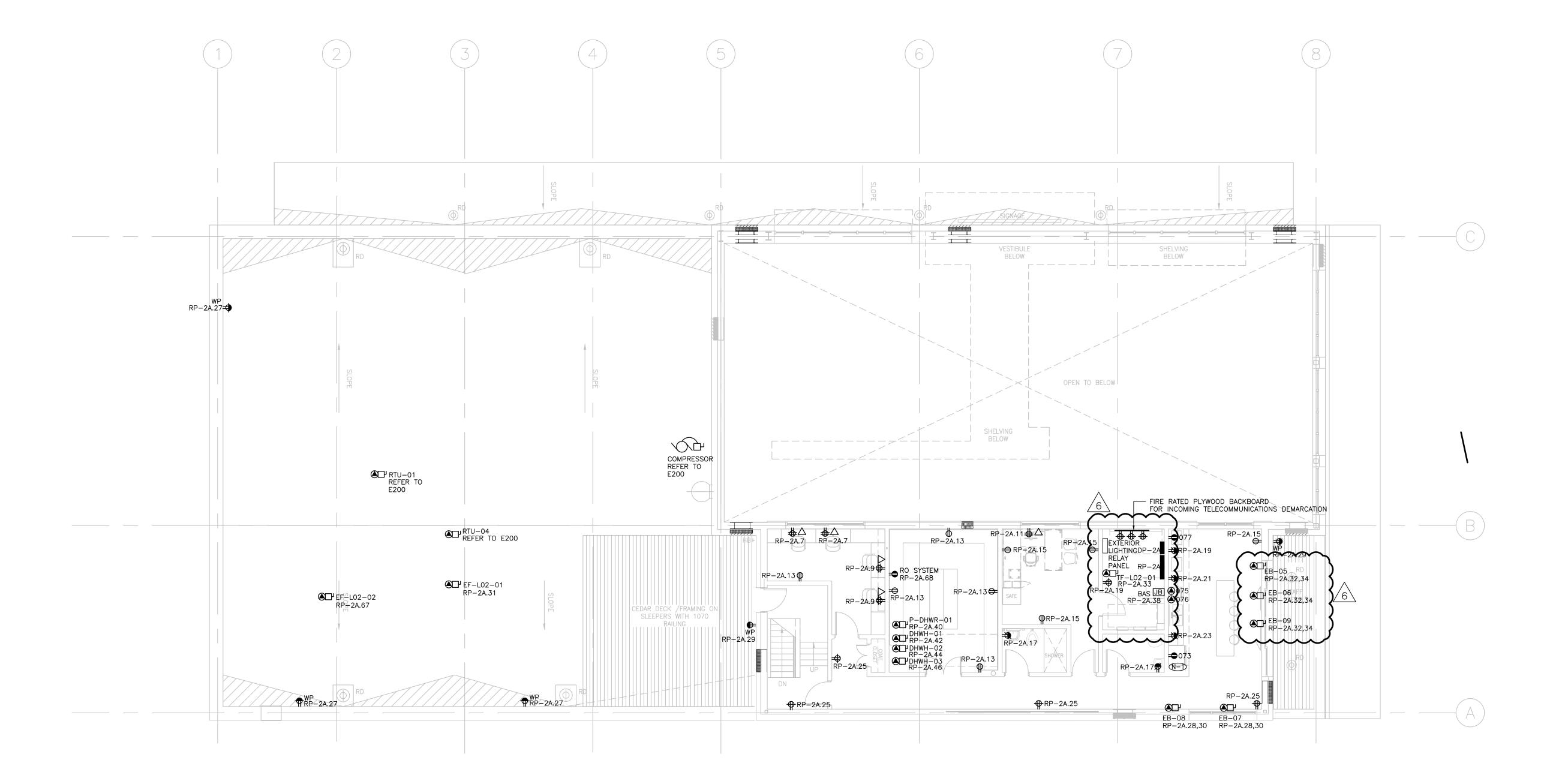
JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NOTES:

N=1) REFER TO EQUIPMENT SCHEDULE FOR ITEM NUMBER AND CORRESPONDING CIRCUIT NUMBER(S). TYPICAL.



 073
 1
 202 - STAFF LOUNGE
 RESIDENTIAL FRIDGE

 075
 1
 203 - STAFF LOUNGE
 STOVE - STANDARD ELECTRIC RANGE/OVEN

 076
 1
 203 - STAFF LOUNGE
 STOVE - HOOD

 077
 1
 204 - STAFF LOUNGE
 MICROWAVE

RP-2A 59,61,63 DC 208 60 3

RP-2A 65 DC 120 60 1

RP-2A 3 NEMA 5-15R 120 60 1 13

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REVISIONS AND ISSUES

DESCRIPTION

1	ISSUED FOR COSTING	2021.08.17
2	ISSUED FOR TENDER	2021.08.27
3	ISSUED FOR BUILDING PERMIT	2021.09.09
4	ISSUED FOR ADD-E01	2021.09.15
5	ISSUED FOR ADD-E02	2021.09.23
6	ISSUED FOR ADD-E03	2021.09.27
7		

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RTH /	ARROW	SEAL

PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

SECOND LEVEL - POWER

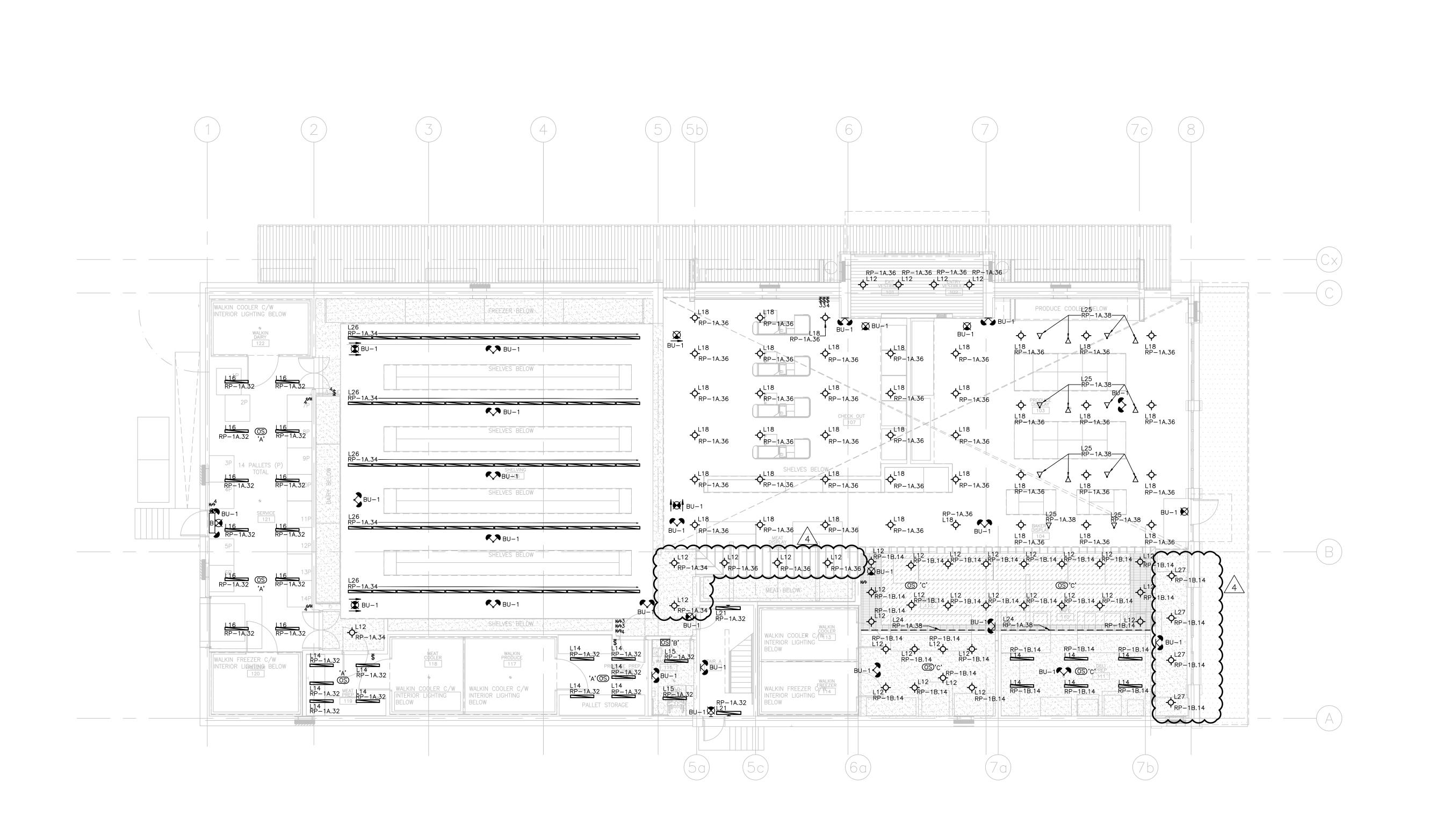
AND SYSTEMS

SCALE

JUNE 16, 2021

PROJECT NUMBER 21376.000.e001

DRAWING NUMBER



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REVISIONS AND ISSUES

REV	DESCRIPTION	DATE	B
1	ISSUED FOR COSTING	2021.08.17	
2	ISSUED FOR TENDER	2021.08.27	
3	ISSUED FOR BUILDING PERMIT	2021.09.09	
4	ISSUED FOR ADD-E03	2021.09.27	
5			
6			
7			

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NORTH ARROW	SEAL

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

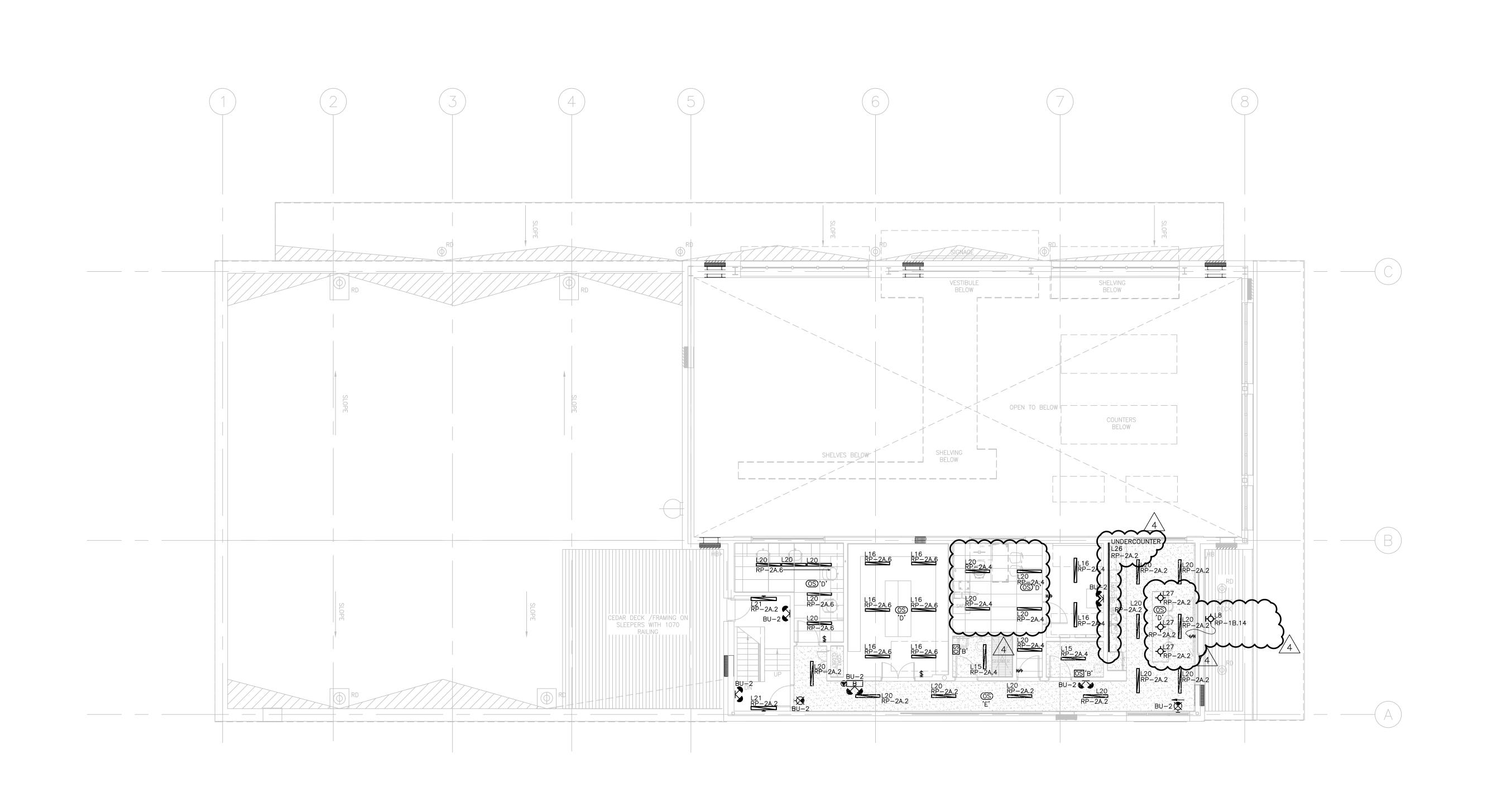
GROUND LEVEL - LIGHTING

JUNE 16, 2021

PROJECT NUMBER

21376.000.e001

DRAWING NUMBER



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REVISIONS AND ISSUES DESCRIPTION

ISSUED FOR COSTING 2021.08.17 ISSUED FOR TENDER 2021.08.27 3 ISSUED FOR BUILDING PERMIT 2021.09.09 4 ISSUED FOR ADD-E03 2021.09.27

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NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE
SECOND LEVEL — LIGHTING

JUNE 16, 2021

PROJECT NUMBER 21376.000.e001

DRAWING NUMBER

